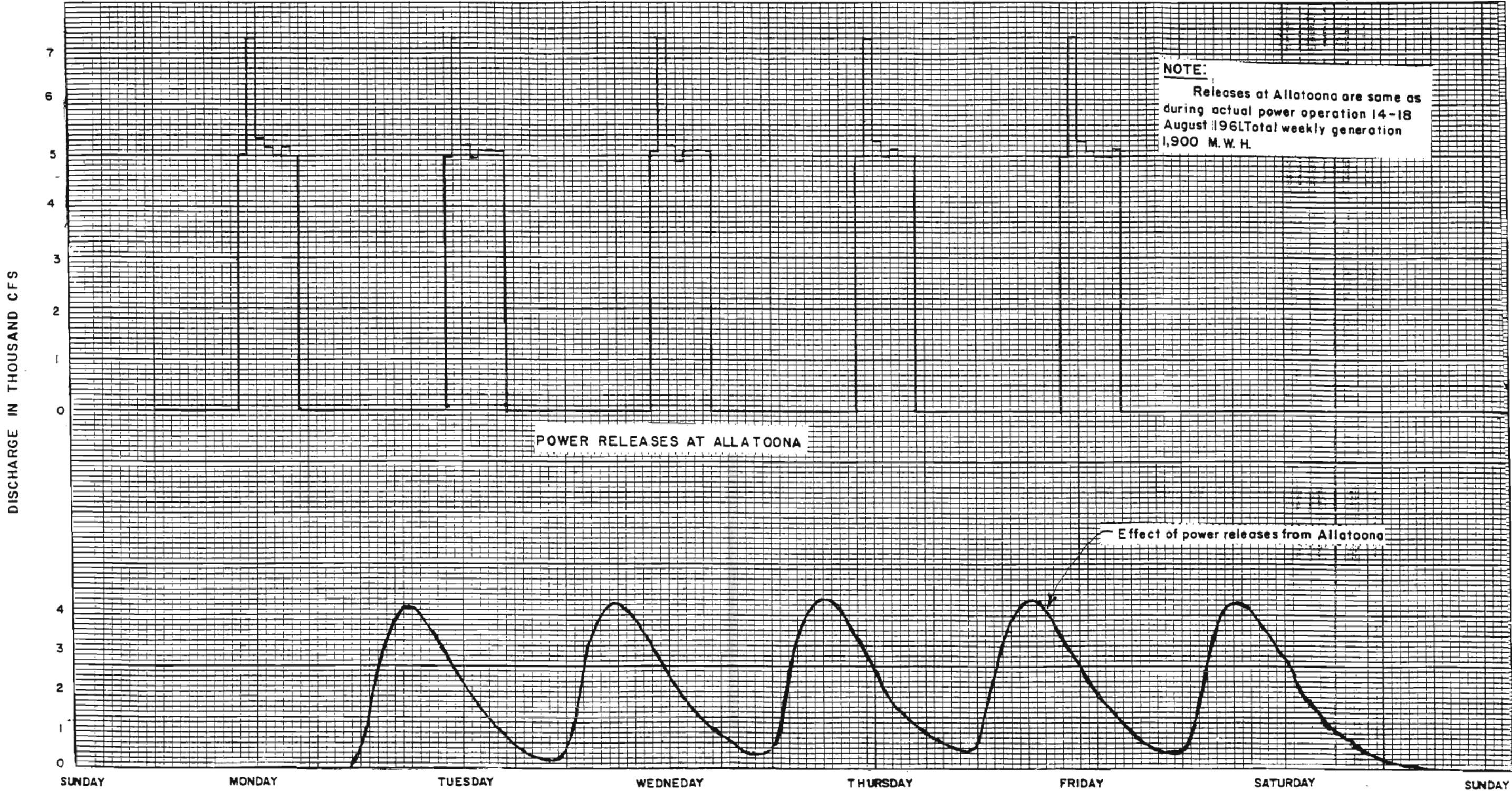




HYDROGRAPHS AT ROME(5th AVE. GAGE) GEORGIA

ALABAMA - COOSA BASIN
WATER CONTROL MANUAL
ALLATOONA RESERVOIR, ETOWAH RIVER, GA
EFFECT AT ROME OF POWER
RELEASES FROM ALLATOONA

SAM AR000778-SAM AR000972

**AUTHORIZED AND OPERATING PURPOSES
OF CORPS OF ENGINEERS RESERVOIRS**

July 1992

**Department of the Army
U. S. Army Corps of Engineers
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AUTHORIZED AND OPERATING PURPOSES
OF CORPS OF ENGINEERS RESERVOIRS

Contents

Page

Introduction 1

General 1

Authorized Purposes 2

Reservoir Operating Purposes 3

Incidental Benefits 3

Acknowledgements 4

Second Printing 4

Appendices

Appendix A - Public Laws Cited A-1

Appendix B - Projects by State B-1

Appendix C - Projects Alphabetical by Name C-1

Appendix D - Projects by Corps of Engineers Office D-1

Appendix E - Authorized and Operating Purposes E-1
of Corps of Engineers Reservoirs

**AUTHORIZED AND OPERATING PURPOSES
OF CORPS OF ENGINEERS RESERVOIRS**

Introduction

Section 311 of the Water Resources Development Act of 1990 (PL 101-640) directs the Secretary of the Army to "...conduct a study of the operations of reservoir projects which are under the jurisdiction of the Secretary --

- (1) to identify the purposes for which each such project is authorized; and
- (2) to identify the purposes for which each such project is being operated."

This report presents the information requested by the law. For each reservoir, information is provided about the purposes for which it is authorized, the laws granting authority, and the purposes for which water is being controlled by the Corps of Engineers. These data are arranged in table format for ease of reference and are presented in Appendix E. Appendix A lists all the public laws cited in the report together with the dates of enactment, statute numbers and popular or common name. All laws are as amended. Appendices B, C and D provide indexes to the projects alphabetically by state, alphabetically by project name, and by Corps of Engineers division and district office, respectively.

General

A total of 541 federally-owned reservoirs operated by the Corps of Engineers were studied and are reported herein. The criteria used in selecting a Corps water project for inclusion in this report were that it be either a dam and reservoir project or lock and dam project for which water control management is routinely required to control either water level or flow, or both. Excluded were other kinds of water control structures such as river diversion structures and pumping stations that do not routinely impound water. Also excluded are non-Corps projects for which the Corps prepares the water control plan for the purpose of either flood control or navigation under Section 7 of the Flood Control Act of 1944 and other public laws.

As used in this report the word "reservoir" includes the type of water project known as a lock and dam. A lock and dam is generally distinguished from a dam and reservoir project by its facility for passing waterway vessels and its relatively small water storage volume. It generally does not provide flood control storage space and is intended mainly to control river level, rather than river flow, for the purpose of navigation. Some Corps locks and dams serve purposes in addition to navigation. Given that locks and dams are water control facilities that require operation management to meet one or more purposes, they are similar to reservoirs and thus are included in this report.

The study reveals that most purposes served by Corps reservoirs fall into eight general categories: flood control, navigation, hydroelectric power, irrigation, municipal/industrial water supply, water quality, fish/wildlife, and recreation. Each general category represents a variety of purposes that appear in the authorizing laws, for example, the fish/wildlife category includes such purposes, among others, as sport fishing and wildlife, fisheries habitat, and wildlife preservation. Some purposes authorized by Congress that do not conveniently fit into one of the eight general categories listed above include: sediment control, low flow augmentation (without stipulation as to specific purpose), drainage and water control, saltwater intrusion, groundwater recharge, water conservation (without stipulation), and preservation of the Everglades National Park. Purposes which are not categorized are listed in Appendix E with the specific projects for which they were authorized.

Authorized Purposes

The purposes that a reservoir is to serve are given in laws that may be grouped into three categories: (1) laws initially authorizing construction of the project; (2) laws specific to the project passed subsequent to construction; and (3) laws that apply generally to all Corps reservoirs. In the latter category, the following laws have the greatest relevance to Corps reservoirs:

PL 78-534, Flood Control Act of 1944 (provides authority to add recreation as a purpose and to contract for use of surplus water for domestic purposes)

PL 85-500, Title III, Water Supply Act of 1958 (provides authority to include storage for municipal and industrial water supply)

PL 85-624, Fish and Wildlife Coordination Act of 1958 (provides authority to modify projects to conserve fish and wildlife)

PL 92-500, Federal Water Pollution Control Act Amendments of 1972 (establishes goal to restore and maintain the quality of the Nation's waters)

PL 93-205, Endangered Species Act of 1973 (provides authority for operating projects to protect threatened or endangered fish/wildlife)

Specific project authorizations (categories 1 and 2, above) are found in a variety of public laws but most commonly in a series of River and Harbor and Flood Control acts passed by Congress since 1870. Recent project authorizations have been contained in a series of Water Resources Development acts. Commonly, the purposes of a reservoir are not identified directly in the authorizing law but instead are contained in reports of the Secretary of the Army, Chief of Engineers, Board of Engineers for Rivers and Harbors, or others referred to in the law. Purposes may be added or deleted by laws passed subsequent to project construction.

Operating purpose, as used in this report, refers to a reservoir purpose for which water control management decisions are made, i.e., either the volume of water retained in storage, the water surface elevation, or the rate of discharge is regulated to serve the stated purpose.

As a general rule, a reservoir is operated for its authorized purposes. There are, however, exceptions to this rule. For example, in some instances, a study during the project's post-authorization phase may show that it is not economical to operate for a particular purpose at that time and, therefore, facilities necessary to achieve that purpose, such as turbines and generators, have not been provided. In other instances, the need to operate a project to satisfy a particular purpose may no longer exist because of changed conditions in the river basin. In such cases, a project may not presently be operated for such purposes. Additionally, in certain other cases, it may not be necessary to regulate the flow of water for a particular purpose because that purpose is served incidentally by the regulation of the reservoir for its other purposes. When a reservoir is not being operated for an authorized purpose, an explanatory note has been supplied with that project's listing in Appendix E.

There are, at times, instances when physical and hydrological circumstances, such as low water conditions, may require consideration to make changes in a reservoir's water control plan. For example, the existence of municipal water supply or power plant intakes along the downstream riverbank may create the need, during times of declining river levels, to keep those intakes accessible to water for the benefit of public health and safety. An explanatory note accompanies a reservoir's listing in Appendix E when such a circumstance exists.

Under the provisions of Federal Power Act, as amended, the Federal Energy Regulatory Commission (FERC) has authority to license the development of hydroelectric generating facilities by non-Federal entities at Corps of Engineers projects. The Corps generally makes no change to the water control plan in order to accommodate the non-Federal facility; electricity is generated using the water released by the Corps for the reservoir's authorized purposes. Because non-Federal hydroelectric power is an incidental benefit and the authorizing law applies not to the Army but to another agency (FERC), it is neither listed as an operating purpose nor as an authorized purpose in Appendix E. In the few instances where the existence of a non-Federal hydroelectric power facility influences the water control operation of the reservoir the listing for that project is so annotated.

Incidental Benefits

Almost all Corps of Engineers reservoirs produce benefits in addition to those for which they are authorized. Such benefits are derived incidentally to the regulation of the reservoirs for their authorized purposes. For example, augmentation of low flows for the authorized purpose of fish and wildlife conservation can, and most often does,

incidentally benefit the quality of water in the stream and vice versa. Similarly, the large reductions in the magnitude of river flow produced by regulating reservoirs to control floods reduces significantly the potential for streambank erosion. While such beneficial effects of reservoir water control management are important, incidental benefits are not the subject of this study and thus are not listed in this report.

Acknowledgments

The information provided for each reservoir documented in this report was prepared by the staff of the Corps district and division office responsible for the management of the reservoir. Research into the authorization history of each project was contributed by the engineering, operations, planning, program management and legal counsel elements of each office under coordination by the water control manager. The Hydrologic Engineering Center, Corps of Engineers, developed a database to assemble and manage the information, reviewed the cited laws and references and generated the appendices of the report. William Johnson was project engineer. The report was prepared under the general direction of Richard DiBuono, Hydraulics and Hydrology Branch, Headquarters, U. S. Army Corps of Engineers.

Second Printing

This is the second printing of this document and was made in November 1994. Revisions were made to some of the information on the following projects: James W. Trimble Lock and Dam - John Paul Hammerschmidt Lake; Joe Hardin Lock and Dam; Colebrook River Lake; Robert C. Byrd Locks and Dam; Virgil B. Bennington Lake; Edward MacDowell Dam; Francis E. Walter Reservoir; Central and Southern Florida (C&SF) Project; John Hollis Bankhead Lock and Dam; Holt Lock and Dam; Fort Supply Lake; Hugo Lake; Hulah Lake.

APPENDICES

	<u>Page</u>
APPENDIX A - PUBLIC LAWS CITED	A-1
APPENDIX B - PROJECTS BY STATE	B-1
APPENDIX C - PROJECTS ALPHABETICAL BY NAME	C-1
APPENDIX D - PROJECTS BY CORPS OF ENGINEERS OFFICE	D-1
APPENDIX E - AUTHORIZED AND OPERATING PURPOSES OF CORPS OF ENGINEERS RESERVOIRS	E-1

[illegible]

PUBLIC LAWS CITED

<u>PUBLIC LAW</u>	<u>DATE</u>	<u>STATUTE</u>	<u>POPULAR OR COMMON NAME</u>
PL 101-640	November 28, 1990	104 Stat 4604	Water Resource Development Act of 1990
PL 101-229	December 13, 1989	103 Stat 1946	Everglades National Park Protection and Expansion Act of 1989
PL 100-876	November 17, 1988	102 Stat 4013	Water Resources Development Act of 1988
PL 100-522	October 24, 1988	102 Stat 2604	Water Storage at Abiquiú Dam, New Mexico
PL 100-202	December 22, 1987	101 Stat 1329 -104	Energy and Water Development Appropriation Act of 1988 (Title I)
PL 99-862	November 17, 1986	100 Stat 4082	Water Resources Development Act of 1986
PL 99-88	August 15, 1985	99 Stat 293	Supplemental Appropriations Act of 1985, Chapter IV - Department of Defense - Civil
PL 98-396	August 22, 1984	98 Stat 1369	Second Supplemental Appropriations Act, 1984; General Provisions (Title III)
PL 98-181	November 30, 1983	97 Stat 1153	Supplemental Appropriations Act of 1983, General Provisions, Sections 1300-1306
PL 98-63	July 30, 1983	97 Stat 301	Supplemental Appropriations Act of 1983, Chapter IV - Department of Defense - Civil
PL 97-304	October 13, 1982	98 Stat 1411	Endangered Species Act Amendments of 1982
PL 97-140	December 29, 1981	95 Stat 1717	Benbrook Lake, Texas-Water Supply Storage
PL 97-88	December 04, 1981	95 Stat 1135	Energy and Water Development Appropriations Act, 1982
PL 96-159	December 28, 1979	93 Stat 1225	Endangered Species Act of 1973, Appropriation and Authorization
PL 95-632	November 10, 1978	92 Stat 3751	Endangered Species Act Amendments of 1978
PL 95-502	October 21, 1978	92 Stat 1693	Replacement of Locks and Dam 26; Upper Mississippi River System Comprehensive Plan (Title I); Inland Waterways Revenue Act of 1978 (Title II)
PL 95-217	December 27, 1977	91 Stat 1566	Clean Water Act of 1977
PL 95-26	May 04, 1977	91 Stat 81	Supplemental Appropriations Act, 1977
PL 94-587	October 22, 1976	90 Stat 2917	Water Resources Development Act of 1976
PL 94-423	September 28, 1976	90 Stat 1324	Reclamation Authorization Act of 1976

<u>PUBLIC LAW</u>	<u>DATE</u>	<u>STATUTE</u>	<u>POPULAR OR COMMON NAME</u>
PL 93-251	March 07, 1974	88 Stat 12	Water Resources Development; River Basin Monetary Authorization
PL 93-205	December 28, 1973	87 Stat 884	Endangered Species Act of 1973
PL 92-500	October 18, 1972	88 Stat 816	Federal Water Pollution Control Act Amendments of 1972
PL 92-222	December 23, 1971	85 Stat 798	River Basin Monetary Authorization Act of 1971
PL 91-611	December 31, 1970	84 Stat 1818; 84 Stat 1824	River and Harbor Act of 1970 (Title I); Flood Control Act of 1970 (Title II)
PL 91-282	June 19, 1970	84 Stat 310	River Basin Monetary Authorization and Miscellaneous Civil Works Amendment Act of 1970
PL 90-483	August 13, 1968	82 Stat 731; 82 Stat 739	River and Harbor Act of 1968 (Title I); Flood Control Act of 1968 (Title II)
PL 89-789	November 07, 1966	80 Stat 1405; 80 Stat 1418	River and Harbor Act of 1966 (Title I); Flood Control Act of 1966 (Title II)
PL 89-689	October 15, 1966	80 Stat 1002	Public Works Appropriations Act of 1967
PL 89-298	October 27, 1965	79 Stat 1073; 79 Stat 1089	Flood Control Act of 1965 (Title II); River and Harbor Act of 1965 (Title III)
PL 89-72	July 09, 1965	79 Stat 213	Federal Water Project Recreation Act
PL 88-442	August 14, 1964	78 Stat 446	Missouri River Basin
PL 88-293	March 26, 1964	78 Stat 171	Cochiti Reservoir - Water
PL 88-253	December 30, 1963	77 Stat 840	River Basins, Flood Control
PL 87-874	October 23, 1962	76 Stat 1173; 78 Stat 1180	River and Harbor Act of 1962 (Title I); Flood Control Act of 1962 (Title II)
PL 87-483	June 13, 1962	76 Stat 96	Navajo Indian Irrigation Project; San Juan-Chama Project
PL 87-86	July 20, 1961	75 Stat 204	Federal Water Pollution Control Act of 1961
PL 86-645	July 14, 1960	74 Stat 480; 74 Stat 488	River and Harbor Act of 1960 (Title I); Flood Control Act of 1960 (Title II)
PL 86-399	March 31, 1960	74 Stat 12	Bardwell Reservoir, Texas
PL 85-824	August 12, 1958	72 Stat 583	Fish and Wildlife Coordination Act

<u>PUBLIC LAW</u>	<u>DATE</u>	<u>STATUTE</u>	<u>POPULAR OR COMMON NAME</u>
PL 85-500	July 03, 1958	72 Stat 297; 72 Stat 305; 72 Stat 319	River and Harbor Act of 1958 (Title I); Flood Control Act of 1958 (Title II); Water Supply Act of 1958 (Title III)
PL 85-230	August 30, 1957	71 Stat 513	Whitney Reservoir, Texas
PL 85-148	August 14, 1957	71 Stat 368	Sherman, Texas Water Supply
PL 84-843	July 30, 1956	70 Stat 727	Bartlesville, Oklahoma (Water Supply)
PL 84-782	July 24, 1956	70 Stat 832	Benbrook Dam, Texas (Water Supply)
PL 84-505	May 02, 1956	70 Stat 128	Missouri River Basin Projects
PL 84-218	August 03, 1955	89 Stat 449	Red River Basin
PL 84-160	July 15, 1955	69 Stat 323	Ferrells Bridge Reservoir, Texas
PL 83-780	September 03, 1954	68 Stat 1248; 68 Stat 1258	River and Harbor Act of 1954 (Title I); Flood Control Act of 1954 (Title II)
PL 83-273	August 14, 1953	87 Stat 583	Water Storage Space-Denison, Texas
PL 82-398	June 19, 1952	68 Stat 138	Cheatham Dam, Tennessee
PL 81-518	May 17, 1950	64 Stat 163; 64 Stat 170	River and Harbor Act of 1950 (Title I); Flood Control Act of 1950 (Title II)
PL 80-858	June 30, 1948	62 Stat 1171; 62 Stat 1175	River and Harbor Act of 1948 (Title I); Flood Control Act of 1948 (Title II)
PL 79-732	August 14, 1946	60 Stat 1080	Conservation of Wildlife Act
PL 79-525	July 24, 1946	60 Stat 634	River and Harbor Act of 1946
PL 79-528	July 24, 1946	60 Stat 641	Flood Control Act of 1946
PL 79-14	March 02, 1945	59 Stat 10	River and Harbor Act of 1945
PL 78-534	December 22, 1944	58 Stat 887	Flood Control Act of 1944
PL 77-675	July 23, 1942	56 Stat 703	Intercoastal Waterway-Enlargement and Extension
PL 77-228	August 18, 1941	55 Stat 838	Flood Control Act of 1941
PL 76-868	October 17, 1940	54 Stat 1198	River and Harbor Act of 1940
PL 76-398	August 11, 1939	53 Stat 1414	Flood Control Act of 1939
PL 75-761	June 28, 1938	52 Stat 1215	Flood Control Act of 1938

<u>PUBLIC LAW</u>	<u>DATE</u>	<u>STATUTE</u>	<u>POPULAR OR COMMON NAME</u>
PL 75-685	June 20, 1938	52 Stat 802	River and Harbor Act of 1938
PL 75-529	May 18, 1938	52 Stat 403	Fort Peck Project
PL 75-406	August 28, 1937	50 Stat 876	Flood Control Act of 1938, Amendments
PL 75-392	August 26, 1937	50 Stat 844	River and Harbor Act of 1937
PL 75-329	August 20, 1937	50 Stat 731	Bonneville Project
PL 74-738	June 22, 1936	49 Stat 1570	Flood Control Act of 1936
PL 74-678	June 15, 1936	49 Stat 1508	Flood Control on the Mississippi River
PL 74-409	August 30, 1935	49 Stat 1028	River and Harbor Act of 1935
PL 73-67	June 16, 1933	48 Stat 195	National Industrial Recovery Act-Public Works And Construction Projects (Title II)
PR 72-10	February 24, 1932	47 Stat 55	Public Resolution 10, 72nd Congress. Mississippi River Improvements
PL 71-520	July 03, 1930	46 Stat 918	River and Harbor Act of 1930
PL 70-391	May 15, 1928	45 Stat 534	Flood Control on the Mississippi River
PL 69-560	January 21, 1927	44 Stat 1010	River and Harbor Act of 1927
PL 67-362	September 22, 1922	42 Stat 1038	River and Harbor Act of 1922
PL 65-200	July 18, 1918	40 Stat 904	River and Harbor Act of 1918
PL 64-168	July 27, 1916	39 Stat 391	River and Harbor Act of 1916
PL 62-241	July 25, 1912	37 Stat 201	River and Harbor Act of 1912
PL 61-284	June 25, 1910	36 Stat 630	River and Harbor Act of 1910
PL 60-317	March 03, 1909	35 Stat 815	River and Harbor Act of 1909
PL 58-215	March 03, 1905	33 Stat 1117	River and Harbor Act of 1905
PL 57-154	June 13, 1902	32 Stat 331	River and Harbor Act of 1902
RHA 1894	August 18, 1894	28 Stat 336	River and Harbor Act of 1894
RHA 1890	September 19, 1890	28 Stat 426	River and Harbor Act of 1890
RHA 1888	August 11, 1888	25 Stat 400	River and Harbor Act of 1888
RHA 1884	July 05, 1884	23 Stat 133	River and Harbor Act of 1884

<u>PUBLIC LAW</u>	<u>DATE</u>	<u>STATUTE</u>	<u>POPULAR OR COMMON NAME</u>
RHA 1882	August 02, 1882	22 Stat 191	River and Harbor Act of 1882
RHA 1880	June 14, 1880	21 Stat 180	River and Harbor Act of 1880
RHA 1879	March 03, 1879	20 Stat 363	River and Harbor Act of 1879
RHA 1873	March 03, 1873	17 Stat 560	River and Harbor Act of 1873
RHA 1872	June 10, 1872	17 Stat 370	River and Harbor Act of 1872
RHA 1870	July 11, 1870	16 Stat 223	River and Harbor Act of 1870

APPENDIX B

PROJECTS BY STATE

SAM AR000792

PROJECTS BY STATE

	<u>CORPS OFFICE</u>	<u>PAGE</u>
Alabama		
ARMISTEAD I. SELDEN LOCK AND DAM - WARRIOR LAKE	Mobile	E-93
CLAIBORNE LOCK AND DAM	Mobile	E-95
COFFEEVILLE LOCK AND DAM	Mobile	E-95
DEMOPOLIS LOCK AND DAM	Mobile	E-95
GAINESVILLE LOCK AND DAM	Mobile	E-96
GEORGE W. ANDREWS LOCK AND DAM	Mobile	E-96
HOLT LOCK AND DAM	Mobile	E-96
JOHN HOLLIS BANKHEAD LOCK AND DAM	Mobile	E-97
MILLERS FERRY LOCK AND DAM - WILLIAM "BILL" DANNELLY LAKE	Mobile	E-98
ROBERT F. HENRY LOCK AND DAM - R.E. "BOB" WOODRUFF RESERVOIR	Mobile	E-99
TOM BEVILL LOCK AND DAM	Mobile	E-99
WALTER F. GEORGE LOCK AND DAM	Mobile	E-100
WILLIAM BACON OLIVER LOCK AND DAM	Mobile	E-100
Alaska		
CHENA RIVER LAKES	Alaska	E-49
Arizona		
ALAMO LAKE	Los Angeles	E-106
PAINTED ROCK DAM	Los Angeles	E-108
WHITLOW RANCH DAM	Los Angeles	E-110
Arkansas		
ARTHUR V. ORMAND LOCK AND DAM AND WINTHROP ROCKERFELLER LAKE	Little Rock	E-120
BEAVER LAKE	Little Rock	E-121
BLAKELY MOUNTAIN DAM - LAKE OUACHITA	Vicksburg	E-1
BLUE MOUNTAIN LAKE	Little Rock	E-121
BULL SHOALS LAKE	Little Rock	E-121
DARDANELLE LOCK AND DAM	Little Rock	E-122
DAVID D. TERRY LOCK AND DAM	Little Rock	E-122
DEGRAY LAKE	Vicksburg	E-2
DEQUEEN LAKE	Little Rock	E-123
DIERKS LAKE	Little Rock	E-123
EMMITT SANDERS LOCK AND DAM	Little Rock	E-123
FELSENTHAL LOCK AND DAM	Vicksburg	E-3
GILLHAM LAKE	Little Rock	E-124
GREERS FERRY LAKE	Little Rock	E-124
H.K. THATCHER LOCK AND DAM	Vicksburg	E-3
JAMES W. TRIMBLE LOCK AND DAM - JOHN PAUL HAMMERSCHMIDT LAKE	Little Rock	E-124
JOE HARDIN LOCK AND DAM	Little Rock	E-125
LOCK AND DAM NO. 5 - ARKANSAS RIVER	Little Rock	E-125
MILLWOOD LAKE	Little Rock	E-125

	<u>CORPS OFFICE</u>	<u>PAGE</u>
MURRAY LOCK AND DAM	Little Rock	E-126
NARROWS DAM - LAKE GREESON	Vicksburg	E-4
NIMROD LAKE	Little Rock	E-126
NORFORK LAKE	Little Rock	E-126
NORRELL LOCK AND DAM	Little Rock	E-127
OZARK JETTA-TAYLOR LOCK AND DAM	Little Rock	E-127
TOAD SUCK FERRY LOCK AND DAM	Little Rock	E-128
WILBUR D. MILLS LOCK AND DAM	Little Rock	E-128

California

BEAR DAM (MERCED COUNTY STREAM GROUP)	Sacramento	E-104
BLACK BUTTE LAKE	Sacramento	E-104
BREA DAM (SANTA ANA RIVER BASIN)	Los Angeles	E-107
BUCHANAN DAM - H.V. EASTMAN LAKE	Sacramento	E-104
BURNS DAM (MERCED COUNTY STREAM GROUP)	Sacramento	E-104
CARBON CANYON DAM (SANTA ANA RIVER BASIN)	Los Angeles	E-107
COYOTE VALLEY DAM - LAKE MENDOCINO	Sacramento	E-104
DRY CREEK (WARM SPRINGS) LAKE AND CHANNEL	Sacramento	E-105
FARMINGTON DAM	Sacramento	E-105
FULLERTON DAM (SANTA ANA RIVER BASIN)	Los Angeles	E-107
HANSEN DAM (LOS ANGELES COUNTY DRAINAGE AREA)	Los Angeles	E-107
HIDDEN DAM - HENSLEY LAKE	Sacramento	E-105
ISABELLA LAKE	Sacramento	E-105
LOPEZ DAM (LOS ANGELES COUNTY DRAINAGE AREA)	Los Angeles	E-108
MARIPOSA DAM (MERCED COUNTY STREAM GROUP)	Sacramento	E-105
MARTIS CREEK LAKE	Sacramento	E-105
MOJAVE RIVER RESERVOIR	Los Angeles	E-108
NEW HOGAN LAKE	Sacramento	E-106
OWENS DAM (MERCED COUNTY STREAM GROUP)	Sacramento	E-106
PINE FLAT LAKE AND KINGS RIVER	Sacramento	E-106
PRADO DAM (SANTA ANA RIVER BASIN)	Los Angeles	E-109
SAN ANTONIO DAM (SANTA ANA RIVER BASIN)	Los Angeles	E-109
SANTA FE DAM (LOS ANGELES COUNTY DRAINAGE AREA)	Los Angeles	E-109
SEPULVEDA DAM (LOS ANGELES COUNTY DRAINAGE AREA)	Los Angeles	E-110
SUCCESS LAKE	Sacramento	E-106
TERMINUS DAM - LAKE KAWEAH	Sacramento	E-108
WHITTIER NARROWS DAM (LOS ANGELES COUNTY DRAINAGE AREA)	Los Angeles	E-110

Colorado

BEAR CREEK DAM AND LAKE	Omaha	E-13
CHATFIELD DAM AND LAKE	Omaha	E-15
CHERRY CREEK DAM AND LAKE	Omaha	E-15
JOHN MARTIN RESERVOIR	Albuquerque	E-112
KELLY ROAD DAM	Omaha	E-18
TRINIDAD LAKE	Albuquerque	E-112

Connecticut

BLACK ROCK LAKE	New England	E-43
COLEBROOK RIVER LAKE	New England	E-44

	<u>CORPS OFFICE</u>	<u>PAGE</u>
HANCOCK BROOK LAKE	New England	E-45
HOP BROOK LAKE	New England	E-45
MANSFIELD HOLLOW LAKE	New England	E-46
NORTHFIELD BROOK LAKE	New England	E-47
THOMASTON DAM	New England	E-47
WEST THOMPSON LAKE	New England	E-46

Florida

CENTRAL AND SOUTHERN FLORIDA (C&SF) PROJECT	Jacksonville	E-69
FOUR RIVER BASINS (FRB) PROJECT	Jacksonville	E-90
INGLIS LOCK AND DAM (CROSS FLORIDA BARGE CANAL PROJECT)	Jacksonville	E-91
JIM WOODRUFF LOCK AND DAM - LAKE SEMINOLE	Mobile	E-96
OKEECHOBEE WATERWAY PROJECT	Jacksonville	E-91
OKLAWAHA RIVER PROJECT	Jacksonville	E-92
RODMAN LOCK AND DAM (CROSS FLORIDA BARGE CANAL PROJECT)	Jacksonville	E-92

Georgia

ALLATOONA LAKE	Mobile	E-93
BUFORD DAM - LAKE SIDNEY LANIER	Mobile	E-94
CARTERS DAM AND LAKE	Mobile	E-94
GEORGE W. ANDREWS LOCK AND DAM	Mobile	E-96
HARTWELL DAM AND LAKE	Savannah	E-100
J. STROM THURMOND DAM AND LAKE	Savannah	E-101
NEW SAVANNAH BLUFF LOCK AND DAM	Savannah	E-101
RICHARD B. RUSSELL DAM AND LAKE	Savannah	E-101
WALTER F. GEORGE LOCK AND DAM	Mobile	E-100
WEST POINT DAM AND LAKE	Mobile	E-100

Idaho

ALBENI FALLS DAM	Seattle	E-54
DWORSHAK DAM AND RESERVOIR	Walla Walla	E-56
LUCKY PEAK LAKE	Walla Walla	E-57

Illinois

BRANDON ROAD LOCK AND DAM	Rock Island	E-29
CARLYLE LAKE	St. Louis	E-5
CHICAGO HARBOR LOCK AND CHICAGO RIVER CONTROLLING WORKS	Chicago	E-27
DRESDEN ISLAND LOCK AND DAM	Rock Island	E-30
FARMDALE DAM (FARM CREEK, IL)	Rock Island	E-30
FONDULAC DAM (FARM CREEK, IL)	Rock Island	E-30
KASKASKIA RIVER LOCK AND DAM	St. Louis	E-6
LAGRANGE LOCK AND DAM	Rock Island	E-30
LAKE SHELBYVILLE	St. Louis	E-6
LOCK AND DAM NO. 15 - MISSISSIPPI RIVER	Rock Island	E-31
LOCK AND DAM NO. 17 - MISSISSIPPI RIVER	Rock Island	E-32
LOCK AND DAM NO. 21 - MISSISSIPPI RIVER	Rock Island	E-32

	<u>CORPS OFFICE</u>	<u>PAGE</u>
LOCKS NO. 27 - MISSISSIPPI RIVER	St. Louis	E-6
LOCKS AND DAM NO. 52 - OHIO RIVER	Louisville	E-75
LOCKS AND DAM NO. 53 - OHIO RIVER	Louisville	E-75
LOCKPORT LOCK AND DAM	Rock Island	E-33
MARSEILLES LOCK, CANAL, MARSEILLES DAM	Rock Island	E-33
MELVIN PRICE LOCKS AND DAM	St. Louis	E-6
PEORIA LOCK AND DAM	Rock Island	E-33
REND LAKE	St. Louis	E-7
SMITHLAND LOCKS AND DAM	Louisville	E-77
STARVED ROCK LOCK AND DAM	Rock Island	E-34
THOMAS J. O'BRIEN LOCK AND CONTROLLING WORKS	Rock Island	E-34

Indiana

BROOKVILLE LAKE	Louisville	E-69
CAGLES MILL LAKE	Louisville	E-69
CANNELTON LOCKS AND DAM	Louisville	E-69
CECIL M. HARDEN LAKE	Louisville	E-70
HUNTINGTON LAKE	Louisville	E-70
MARKLAND LOCKS AND DAMS	Louisville	E-75
MCALPINE LOCKS AND DAM	Louisville	E-75
MISSISSINewa LAKE	Louisville	E-76
MONROE LAKE	Louisville	E-76
NEWBURGH LOCKS AND DAM	Louisville	E-76
PATOKA LAKE	Louisville	E-76
SALAMONIE LAKE	Louisville	E-77
UNIONTOWN LOCKS AND DAM	Louisville	E-77

Iowa

CORALVILLE LAKE	Rock Island	E-29
LOCK AND DAM NO. 9 - MISSISSIPPI RIVER	St. Paul	E-39
LOCK AND DAM NO. 10 - MISSISSIPPI RIVER	St. Paul	E-39
LOCK AND DAM NO. 11 - MISSISSIPPI RIVER	Rock Island	E-30
LOCK AND DAM NO. 12 - MISSISSIPPI RIVER	Rock Island	E-31
LOCK AND DAM NO. 13 - MISSISSIPPI RIVER	Rock Island	E-31
LOCK AND DAM NO. 14 - MISSISSIPPI RIVER	Rock Island	E-31
LOCK AND DAM NO. 16 - MISSISSIPPI RIVER	Rock Island	E-31
LOCK AND DAM NO. 16 - MISSISSIPPI RIVER	Rock Island	E-32
RATHBUN LAKE	Kansas City	E-12
RED ROCK DAM AND LAKE RED ROCK	Rock Island	E-33
SAYLORVILLE LAKE	Rock Island	E-34

Kansas

CLINTON LAKE	Kansas City	E-8
COUNCIL GROVE LAKE	Tulsa	E-130
EL DORADO LAKE	Tulsa	E-131
ELK CITY LAKE	Tulsa	E-131
FALL RIVER LAKE	Tulsa	E-132
HILLSDALE LAKE	Kansas City	E-9
JOHN REDMOND DAM AND RESERVOIR	Tulsa	E-133
KANOPOLIS LAKE	Kansas City	E-9

	<u>CORPS OFFICE</u>	<u>PAGE</u>
MARION LAKE	Tulsa	E-134
MELVERN LAKE	Kansas City	E-11
MILFORD LAKE	Kansas City	E-11
PEARSON-SKUBITZ BIG HILL LAKE	Tulsa	E-136
PERRY LAKE	Kansas City	E-11
POMONA LAKE	Kansas City	E-12
TORONTO LAKE	Tulsa	E-137
TUTTLE CREEK LAKE	Kansas City	E-13
WILSON LAKE	Kansas City	E-13

Kentucky

BARKLEY DAM AND LAKE BARKLEY	Nashville	E-78
BARREN RIVER LAKE	Louisville	E-68
BUCKHORN LAKE	Louisville	E-69
CANNELTON LOCKS AND DAM	Louisville	E-69
CARR FORK LAKE	Louisville	E-69
CAVE RUN LAKE	Louisville	E-70
CPT. ANTHONY MELDAHL LOCKS AND DAM	Huntington	E-61
DEWEY LAKE	Huntington	E-62
FISHTRAP LAKE	Huntington	E-83
GRAYSON LAKE	Huntington	E-63
GREEN RIVER LAKE	Louisville	E-70
GREENUP LOCKS AND DAM	Huntington	E-83
LAUREL RIVER LAKE	Nashville	E-80
LOCK AND DAM NO. 1 - BARREN RIVER	Louisville	E-71
LOCK AND DAM NO. 1 - GREEN RIVER	Louisville	E-71
LOCK AND DAM NO. 2 - GREEN RIVER	Louisville	E-71
LOCK AND DAM NO. 3 - GREEN RIVER	Louisville	E-71
LOCK AND DAM NO. 4 - GREEN RIVER	Louisville	E-71
LOCK AND DAM NO. 5 - GREEN RIVER	Louisville	E-72
LOCK AND DAM NO. 6 - GREEN RIVER	Louisville	E-72
LOCK AND DAM NO. 1 - KENTUCKY RIVER	Louisville	E-72
LOCK AND DAM NO. 2 - KENTUCKY RIVER	Louisville	E-72
LOCK AND DAM NO. 3 - KENTUCKY RIVER	Louisville	E-72
LOCK AND DAM NO. 4 - KENTUCKY RIVER	Louisville	E-73
LOCK AND DAM NO. 5 - KENTUCKY RIVER	Louisville	E-73
LOCK AND DAM NO. 6 - KENTUCKY RIVER	Louisville	E-73
LOCK AND DAM NO. 7 - KENTUCKY RIVER	Louisville	E-73
LOCK AND DAM NO. 8 - KENTUCKY RIVER	Louisville	E-74
LOCK AND DAM NO. 9 - KENTUCKY RIVER	Louisville	E-74
LOCK AND DAM NO. 10 - KENTUCKY RIVER	Louisville	E-74
LOCK AND DAM NO. 11 - KENTUCKY RIVER	Louisville	E-74
LOCK AND DAM NO. 12 - KENTUCKY RIVER	Louisville	E-74
LOCK AND DAM NO. 13 - KENTUCKY RIVER	Louisville	E-75
LOCK AND DAM NO. 14 - KENTUCKY RIVER	Louisville	E-75
LOCKS AND DAM NO. 52 - OHIO RIVER	Louisville	E-75
LOCKS AND DAM NO. 53 - OHIO RIVER	Louisville	E-75
MARKLAND LOCKS AND DAMS	Louisville	E-75
MARTINS FORK LAKE	Nashville	E-80
MCALPINE LOCKS AND DAM	Louisville	E-75
NEWBURGH LOCKS AND DAM	Louisville	E-78
NOLIN LAKE	Louisville	E-76

	<u>CORPS OFFICE</u>	<u>PAGE</u>
PAINTSVILLE LAKE	Huntington	E-65
ROUGH RIVER LAKE	Louisville	E-76
SMITHLAND LOCKS AND DAM	Louisville	E-77
TAYLORSVILLE LAKE	Louisville	E-77
UNIONTOWN LOCKS AND DAM	Louisville	E-77
WOLF CREEK DAM - LAKE CUMBERLAND	Nashville	E-81
YATESVILLE LAKE	Huntington	E-68

Louisiana

BODCAU LAKE	Vicksburg	E-1
CADDO LAKE	Vicksburg	E-1
COLUMBIA LOCK AND DAM	Vicksburg	E-2
JOHN H. OVERTON LOCK AND DAM	Vicksburg	E-4
JONESVILLE LOCK AND DAM	Vicksburg	E-4
LOCK AND DAM NO. 1 - RED RIVER WATERWAY	Vicksburg	E-4
WALLACE LAKE	Vicksburg	E-5

Maryland

JENNINGS RANDOLPH LAKE	Baltimore	E-24

Massachusetts

BARRE FALLS DAM	New England	E-43
BIRCH HILL DAM	New England	E-43
BUFFUMVILLE LAKE	New England	E-44
COLEBROOK RIVER LAKE	New England	E-44
CONANT BROOK DAM	New England	E-44
EAST BRIMFIELD LAKE	New England	E-44
HODGES VILLAGE DAM	New England	E-45
KNIGHTVILLE DAM	New England	E-46
LITTLEVILLE LAKE	New England	E-46
TULLY LAKE	New England	E-47
WEST HILL DAM	New England	E-48
WESTVILLE LAKE	New England	E-48

Minnesota

BIG STONE LAKE - WHETSTONE RIVER (HIGHWAY 75 DAM)	St. Paul	E-35
GULL LAKE DAM	St. Paul	E-35
LAC QUI PARLE LAKES (MARSH LAKE DAM)	St. Paul	E-36
LAC QUI PARLE LAKES (LAC QUI PARLE DAM)	St. Paul	E-36
LAKE TRAVERSE (RESERVATION CONTROL DAM)	St. Paul	E-36
LAKE TRAVERSE (WHITE ROCK DAM)	St. Paul	E-36
LEECH LAKE DAM	St. Paul	E-37
LOCK AND DAM NO. 1 - MISSISSIPPI RIVER	St. Paul	E-37
LOCK AND DAM NO. 2 - MISSISSIPPI RIVER	St. Paul	E-37
LOCK AND DAM NO. 3 - MISSISSIPPI RIVER	St. Paul	E-37
LOCK AND DAM NO. 4 - MISSISSIPPI RIVER	St. Paul	E-38
LOCK AND DAM NO. 5 - MISSISSIPPI RIVER	St. Paul	E-38
LOCK AND DAM NO. 5A - MISSISSIPPI RIVER	St. Paul	E-38
LOCK AND DAM NO. 6 - MISSISSIPPI RIVER	St. Paul	E-38

	<u>CORPS OFFICE</u>	<u>PAGE</u>
LOCK AND DAM NO. 7 - MISSISSIPPI RIVER	St. Paul	E-39
LOCK AND DAM NO. 8 - MISSISSIPPI RIVER	St. Paul	E-39
ORWELL LAKE	St. Paul	E-40
PINE RIVER DAM (CROSS LAKE)	St. Paul	E-40
POKEGAMA DAM	St. Paul	E-40
RED LAKE RIVER	St. Paul	E-40
SANDY LAKE DAM	St. Paul	E-41
ST. ANTHONY FALLS LOWER LOCK AND DAM	St. Paul	E-41
ST. ANTHONY FALLS UPPER LOCK AND DAM	St. Paul	E-41
WINNIBIGOSHISH DAM	St. Paul	E-41

Mississippi

ABERDEEN LOCK AND DAM	Mobile	E-93
ARKABUTLA LAKE	Vicksburg	E-1
BAY SPRINGS LOCK AND DAM	Mobile	E-94
COLUMBUS LOCK AND DAM	Mobile	E-95
ENID LAKE	Vicksburg	E-2
GRENADA LAKE	Vicksburg	E-3
LOCK A - TENNESSEE-TOMBIGBEE WATERWAY	Mobile	E-97
LOCK B - TENNESSEE-TOMBIGBEE WATERWAY	Mobile	E-97
LOCK C - TENNESSEE-TOMBIGBEE WATERWAY	Mobile	E-98
LOCK D - TENNESSEE-TOMBIGBEE WATERWAY	Mobile	E-98
LOCK E - TENNESSEE-TOMBIGBEE WATERWAY	Mobile	E-98
OKATIBBEE LAKE	Mobile	E-99
SARDIS DAM	Vicksburg	E-5

Missouri

BLUE SPRINGS LAKE	Kansas City	E-8
CLARENCE CANNON DAM - MARK TWAIN LAKE	St. Louis	E-5
CLEARWATER LAKE	Little Rock	E-121
HARRY S. TRUMAN DAM AND RESERVOIR	Kansas City	E-9
LOCK AND DAM NO. 20 - MISSISSIPPI RIVER	Rock Island	E-32
LOCK AND DAM NO. 22 - MISSISSIPPI RIVER	Rock Island	E-32
LOCK AND DAM NO. 24 - MISSISSIPPI RIVER	St. Louis	E-6
LOCK AND DAM NO. 25 - MISSISSIPPI RIVER	St. Louis	E-6
LONG BRANCH LAKE	Kansas City	E-10
LONGVIEW LAKE	Kansas City	E-10
POMME DE TERRE LAKE	Kansas City	E-12
SMITHVILLE LAKE	Kansas City	E-12
STOCKTON LAKE	Kansas City	E-13
TABLE ROCK LAKE	Little Rock	E-128
WAPPAPELLO LAKE	St. Louis	E-7

Montana

BULL HOOK - SCOTT COULEE DAMS	Omaha	E-14
FORT PECK DAM - FORT PECK LAKE	Omaha	E-16
LIBBY DAM - LAKE KOOCANUSA	Seattle	E-55

Nebraska

	<u>CORPS OFFICE</u>	<u>PAGE</u>
GAVINS POINT DAM - LEWIS AND CLARK LAKE	Omaha	E-17
HARLAN COUNTY LAKE	Kansas City	E-8
PAPILLION CREEK DAM #11 - GLENN CUNNINGHAM LAKE	Omaha	E-19
PAPILLION CREEK DAM #16 - STANDING BEAR LAKE	Omaha	E-19
PAPILLION CREEK DAM #18 - ZORINSKY LAKE	Omaha	E-19
PAPILLION CREEK DAM #20 - WEHRSPANN LAKE	Omaha	E-19
SALT CREEK DAM #2 - OLIVE CREEK LAKE	Omaha	E-20
SALT CREEK DAM #4 - BLUE STEM LAKE	Omaha	E-20
SALT CREEK DAM #8 - WAGON TRAIN LAKE	Omaha	E-20
SALT CREEK DAM #9 - STAGECOACH LAKE	Omaha	E-20
SALT CREEK DAM #10 - YANKEE HILL LAKE	Omaha	E-20
SALT CREEK DAM #12 - CONESTOGA LAKE	Omaha	E-21
SALT CREEK DAM #13 - TWIN LAKE	Omaha	E-21
SALT CREEK DAM #14 - PAWNEE LAKE	Omaha	E-21
SALT CREEK DAM #17 - HOLMES LAKE PARK	Omaha	E-21
SALT CREEK DAM #18 - BRANCHED OAK LAKE	Omaha	E-21
Nevada		
MATHEWS CANYON DAM	Los Angeles	E-108
PINE CANYON DAM	Los Angeles	E-109
New Hampshire		
BLACKWATER DAM	New England	E-43
EDWARD MACDOWELL DAM	New England	E-44
EVERETT LAKE	New England	E-45
FRANKLIN FALLS DAM	New England	E-45
HOPKINTON LAKE	New England	E-45
OTTER BROOK LAKE	New England	E-47
SURRY MOUNTAIN LAKE	New England	E-47
New Mexico		
ABIQUIU DAM	Albuquerque	E-111
COCHITI LAKE	Albuquerque	E-111
CONCHAS LAKE	Albuquerque	E-111
GALISTEO DAM	Albuquerque	E-111
JEMEZ CANYON DAM	Albuquerque	E-112
SANTA ROSA DAM AND LAKE	Albuquerque	E-112
TWO RIVERS DAM	Albuquerque	E-112
New York		
ALMOND LAKE	Baltimore	E-23
ARKPORT DAM	Baltimore	E-23
EAST SIDNEY LAKE	Baltimore	E-24
MOUNT MORRIS DAM	Buffalo	E-27
WHITNEY POINT LAKE	Baltimore	E-25
North Carolina		
B. EVERETT JORDAN DAM AND LAKE	Wilmington	E-102

	<u>CORPS OFFICE</u>	<u>PAGE</u>
FALLS LAKE	Wilmington	E-102
JOHN H. KERR DAM AND RESERVOIR	Wilmington	E-102
W. KERR SCOTT DAM AND RESERVOIR	Wilmington	E-103

North Dakota

BOWMAN-HALEY DAM AND LAKE	Omaha	E-14
GARRISON DAM - LAKE SAKAKAWEA	Omaha	E-17
HOMME LAKE AND DAM	St. Paul	E-35
LAKE ASHTABULA - BALDHILL DAM	St. Paul	E-36
OAHE DAM - LAKE OAHE	Omaha	E-18
PIPESTEM DAM AND LAKE	Omaha	E-19
SNAKE CREEK DAM - LAKE AUDUBON	Omaha	E-22

Ohio

ALUM CREEK LAKE	Huntington	E-59
ATWOOD LAKE	Huntington	E-59
BEACH CITY LAKE	Huntington	E-59
BELLEVILLE LOCKS AND DAM	Huntington	E-80
BERLIN LAKE	Pittsburgh	E-81
BOLIVAR DAM	Huntington	E-60
CAESAR CREEK LAKE	Louisville	E-69
CHARLES MILL LAKE	Huntington	E-61
CLARENCE J. BROWN DAM AND RESERVOIR	Louisville	E-70
CLENDENING LAKE	Huntington	E-61
CPT. ANTHONY MELDAHL LOCKS AND DAM	Huntington	E-61
DEER CREEK LAKE	Huntington	E-61
DELAWARE LAKE	Huntington	E-62
DILLON LAKE	Huntington	E-62
DOVER DAM	Huntington	E-62
GREENUP LOCKS AND DAM	Huntington	E-63
HANNIBAL LOCKS AND DAM	Pittsburgh	E-82
LEESVILLE LAKE	Huntington	E-64
MICHAEL J. KIRWAN DAM AND RESERVOIR	Pittsburgh	E-85
MOHAWK DAM	Huntington	E-64
MOHICANVILLE DAM	Huntington	E-64
MOSQUITO CREEK LAKE	Pittsburgh	E-66
NEW CUMBERLAND LOCKS AND DAM	Pittsburgh	E-86
NORTH BRANCH KOKOSING RIVER LAKE	Huntington	E-65
PAINT CREEK LAKE	Huntington	E-65
PIEDMONT LAKE	Huntington	E-65
PIKE ISLAND LOCKS AND DAM	Pittsburgh	E-86
PLEASANT HILL LAKE	Huntington	E-66
RACINE LOCKS AND DAM	Huntington	E-66
ROBERT C. BYRD LOCKS AND DAM	Huntington	E-63
SENECAVILLE LAKE	Huntington	E-66
TAPPAN LAKE	Huntington	E-67
TOM JENKINS DAM	Huntington	E-67
WEST FORK OF MILL CREEK LAKE	Louisville	E-77
WILLIAM H. HARSHA LAKE	Louisville	E-77
WILLOW ISLAND LOCKS AND DAM	Huntington	E-68
WILLS CREEK LAKE	Huntington	E-68

CORPS OFFICE PAGE

Oklahoma

ARCADIA LAKE	Tulsa	E-129
BIRCH LAKE	Tulsa	E-129
BROKEN BOW LAKE	Tulsa	E-129
CANTON LAKE	Tulsa	E-129
CHOUTEAU LOCK AND DAM	Tulsa	E-130
COPAN LAKE	Tulsa	E-130
DENISON DAM - LAKE TEXOMA	Tulsa	E-130
EUFAULA LAKE	Tulsa	E-131
FORT GIBSON LAKE	Tulsa	E-132
FORT SUPPLY LAKE	Tulsa	E-132
GREAT SALT PLAINS LAKE	Tulsa	E-132
HEYBURN LAKE	Tulsa	E-133
HUGO LAKE	Tulsa	E-133
HULAH LAKE	Tulsa	E-133
KAW LAKE	Tulsa	E-134
KEYSTONE LAKE	Tulsa	E-134
NEWT GRAHAM LOCK AND DAM	Tulsa	E-135
OOLOGAH LAKE	Tulsa	E-135
OPTIMA LAKE	Tulsa	E-135
PINE CREEK LAKE	Tulsa	E-136
ROBERT S. KERR LOCK AND DAM AND RESERVOIR	Tulsa	E-136
SARDIS LAKE	Tulsa	E-136
SKIATOOK LAKE	Tulsa	E-137
TENKILLER FERRY LAKE	Tulsa	E-137
W.D. MAYO LOCK AND DAM	Tulsa	E-137
WAURIKA LAKE	Tulsa	E-138
WEBBERS FALLS LOCK AND DAM AND RESERVOIR	Tulsa	E-138
WISTER LAKE	Tulsa	E-138

Oregon

APPLEGATE LAKE	Portland	E-49
BIG CLIFF DAM	Portland	E-49
BLUE RIVER LAKE	Portland	E-49
BONNEVILLE LOCK AND DAM	Portland	E-50
COTTAGE GROVE LAKE	Portland	E-50
COUGAR LAKE	Portland	E-50
DETROIT LAKE	Portland	E-51
DEXTER DAM	Portland	E-51
DORENA LAKE	Portland	E-51
FALL CREEK LAKE	Portland	E-51
FERN RIDGE LAKE	Portland	E-52
FOSTER DAM	Portland	E-52
GREEN PETER LAKE	Portland	E-52
HILLS CREEK LAKE	Portland	E-53
JOHN DAY LOCK AND DAM - LAKE UMATILLA	Portland	E-53
LOOKOUT POINT LAKE	Portland	E-53
LOST CREEK LAKE	Portland	E-54
MCMARY LOCK AND DAM - LAKE WALLULA	Walla Walla	E-58
THE DALLS LOCK AND DAM - LAKE CELILO	Portland	E-54

	<u>CORPS OFFICE</u>	<u>PAGE</u>
WILLOW CREEK LAKE	Portland	E-54
Pennsylvania		
ALVIN R. BUSH DAM	Baltimore	E-23
AYLESWORTH CREEK LAKE	Baltimore	E-23
BELTZVILLE LAKE	Philadelphia	E-25
BLUE MARSH LAKE	Philadelphia	E-26
CONEMAUGH RIVER LAKE	Pittsburgh	E-81
COWANESQUE LAKE	Baltimore	E-23
CROOKED CREEK LAKE	Pittsburgh	E-82
CURWENSVILLE LAKE	Baltimore	E-23
DASHIELDS LOCKS AND DAM	Pittsburgh	E-82
EAST BRANCH CLARION RIVER LAKE	Pittsburgh	E-82
EMSWORTH LOCKS AND DAMS	Pittsburgh	E-82
FOSTER JOSEPH SAYERS DAM	Baltimore	E-24
FRANCIS E. WALTER RESERVOIR	Philadelphia	E-26
GENERAL EDGAR JADWIN DAM AND RESERVOIR	Philadelphia	E-26
GRAYS LANDING LOCK AND DAM	Pittsburgh	E-82
KINZUA DAM AND ALLEGHENY RESERVOIR	Pittsburgh	E-83
LOCK AND DAM NO. 2 - ALLEGHENY RIVER	Pittsburgh	E-83
LOCK AND DAM NO. 3 - ALLEGHENY RIVER	Pittsburgh	E-83
LOCK AND DAM NO. 4 - ALLEGHENY RIVER	Pittsburgh	E-83
LOCK AND DAM NO. 5 - ALLEGHENY RIVER	Pittsburgh	E-83
LOCK AND DAM NO. 6 - ALLEGHENY RIVER	Pittsburgh	E-83
LOCK AND DAM NO. 7 - ALLEGHENY RIVER	Pittsburgh	E-84
LOCK AND DAM NO. 8 - ALLEGHENY RIVER	Pittsburgh	E-84
LOCK AND DAM NO. 9 - ALLEGHENY RIVER	Pittsburgh	E-84
LOCKS AND DAM NO. 2 - MONONGAHELA RIVER	Pittsburgh	E-84
LOCKS AND DAM NO. 3 - MONONGAHELA RIVER	Pittsburgh	E-84
LOCKS AND DAM NO. 4 - MONONGAHELA RIVER	Pittsburgh	E-84
LOCK AND DAM NO. 7 - MONONGAHELA RIVER	Pittsburgh	E-85
LOYALHANNA LAKE	Pittsburgh	E-85
MAHONING CREEK LAKE	Pittsburgh	E-85
MAXWELL LOCKS AND DAM	Pittsburgh	E-85
MONTGOMERY LOCKS AND DAM	Pittsburgh	E-85
POINT MARION LOCK AND DAM	Pittsburgh	E-87
PROMPTON RESERVOIR	Philadelphia	E-26
RAYSTOWN LAKE	Baltimore	E-24
SHENANGO RIVER LAKE	Pittsburgh	E-87
STILLWATER LAKE	Baltimore	E-24
TIOGA-HAMMOND LAKES	Baltimore	E-25
TIONESTA LAKE	Pittsburgh	E-87
UNION CITY DAM	Pittsburgh	E-88
WOODCOCK CREEK LAKE	Pittsburgh	E-88
YORK INDIAN ROCK DAM	Baltimore	E-25
YOUGHIOGHENY RIVER LAKE	Pittsburgh	E-88

Puerto Rico

CERRILLOS DAM AND RESERVOIR	Jacksonville	E-90
PORTUGUES DAM AND RESERVOIR	Jacksonville	E-92

PROJECTS BY STATE

	<u>CORPS OFFICE</u>	<u>PAGE</u>
South Carolina		
HARTWELL DAM AND LAKE	Savannah	E-100
J. STROM THURMOND DAM AND LAKE	Savannah	E-101
NEW SAVANNAH BLUFF LOCK AND DAM	Savannah	E-101
RICHARD B. RUSSELL DAM AND LAKE	Savannah	E-101
South Dakota		
BIG BEND DAM - LAKE SHARPE	Omaha	E-14
CEDAR CANYON DAM	Omaha	E-15
COLDBROOK DAM AND LAKE	Omaha	E-15
COTTONWOOD SPRINGS DAM AND LAKE	Omaha	E-15
FORT RANDALL DAM - LAKE FRANCIS CASE	Omaha	E-16
GAVINS POINT DAM - LEWIS AND CLARK LAKE	Omaha	E-17
LAKE TRAVERSE (RESERVATION CONTROL DAM)	St. Paul	E-36
LAKE TRAVERSE (WHITE ROCK DAM)	St. Paul	E-36
OAHE DAM - LAKE OAHE	Omaha	E-18
SPRING CREEK DAM - LAKE POCASSE	Omaha	E-22
Tennessee		
CENTER HILL LAKE	Nashville	E-76
CHEATHAM LOCK AND DAM	Nashville	E-78
CORDELL HULL LOCK AND DAM	Nashville	E-79
DALE HOLLOW LAKE	Nashville	E-79
J. PERCY PRIEST DAM AND RESERVOIR	Nashville	E-79
OLD HICKORY LOCK AND DAM	Nashville	E-80
Texas		
ADDICKS DAM	Galveston	E-120
AQUILLA LAKE	Fort Worth	E-113
BARDWELL LAKE	Fort Worth	E-113
BARKER DAM	Galveston	E-120
BELTON LAKE	Fort Worth	E-113
BENBROOK LAKE	Fort Worth	E-114
CANYON LAKE	Fort Worth	E-114
COOPER LAKE	Fort Worth	E-114
DENISON DAM - LAKE TEXOMA	Tulsa	E-130
FERRELL'S BRIDGE DAM - LAKE O' THE PINES	Fort Worth	E-115
GRANGER DAM AND LAKE	Fort Worth	E-115
GRAPEVINE LAKE	Fort Worth	E-115
HORDS CREEK LAKE	Fort Worth	E-115
JOE POOL LAKE	Fort Worth	E-116
LAVON LAKE	Fort Worth	E-116
LEWISVILLE LAKE	Fort Worth	E-116
NAVARRO MILLS LAKE	Fort Worth	E-117
NORTH SAN GABRIEL DAM - GEORGETOWN LAKE	Fort Worth	E-117
O. C. FISHER DAM AND LAKE	Fort Worth	E-117
PAT MAYSE LAKE	Tulsa	E-135
PROCTOR LAKE	Fort Worth	E-117

PROJECTS BY STATE

	<u>CORPS OFFICE</u>	<u>PAGE</u>
RAY ROBERTS LAKE	Fort Worth	E-118
SAM RAYBURN DAM AND RESERVOIR	Fort Worth	E-118
SOMERVILLE LAKE	Fort Worth	E-118
STILLHOUSE HOLLOW LAKE	Fort Worth	E-118
TOWN BLUFF DAM - B.A. STEINHAGEN LAKE	Fort Worth	E-119
WACO LAKE	Fort Worth	E-119
WHITNEY LAKE	Fort Worth	E-119
WRIGHT PATMAN DAM AND LAKE	Fort Worth	E-120
Vermont		
BALL MOUNTAIN LAKE	New England	E-43
NORTH HARTLAND LAKE	New England	E-46
NORTH SPRINGFIELD LAKE	New England	E-46
TOWNSHEND LAKE	New England	E-47
UNION VILLAGE DAM	New England	E-48
Virginia		
GATHRIGHT DAM AND LAKE MOOMAW	Norfolk	E-25
JOHN H. KERR DAM AND RESERVOIR	Wilmington	E-102
JOHN W. FLANNAGAN DAM AND RESERVOIR	Huntington	E-63
NORTH FORK OF POUND LAKE	Huntington	E-65
PHILPOTT LAKE	Wilmington	E-102
Washington		
BONNEVILLE LOCK AND DAM	Portland	E-50
CHIEF JOSEPH DAM - RUFUS WOODS LAKE	Seattle	E-55
HOWARD A. HANSON DAM	Seattle	E-55
ICE HARBOR LOCK AND DAM - LAKE SACAJAWEA	Walla Walla	E-56
JOHN DAY LOCK AND DAM - LAKE UMATILLA	Portland	E-53
LITTLE GOOSE LOCK AND DAM - LAKE BRYAN	Walla Walla	E-57
LOWER GRANITE LOCK AND DAM	Walla Walla	E-57
LOWER MONUMENTAL LOCK AND DAM - LAKE HERBERT G. WEST	Walla Walla	E-57
MENARY LOCK AND DAM - LAKE WALLULA	Walla Walla	E-58
MUD MOUNTAIN DAM	Seattle	E-56
THE DALLES LOCK AND DAM - LAKE CELILO	Portland	E-54
VIRGIL B. BENNINGTON	Walla Walla	E-58
WYNOOCHEE LAKE	Seattle	E-56
West Virginia		
BEECH FORK LAKE	Huntington	E-59
BELLEVILLE LOCKS AND DAM	Huntington	E-60
BLUESTONE LAKE	Huntington	E-60
BURNSVILLE LAKE	Huntington	E-61
EAST LYNN LAKE	Huntington	E-62
HANNIBAL LOCKS AND DAM	Pittsburgh	E-82
HILDEBRAND LOCK AND DAM	Pittsburgh	E-83
JENNINGS RANDOLPH LAKE	Baltimore	E-24
LONDON LOCKS AND DAM	Huntington	E-64

	<u>CORPS OFFICE</u>	<u>PAGE</u>
MARMET LOCKS AND DAM	Huntington	E-84
MORGANTOWN LOCK AND DAM	Pittsburgh	E-86
NEW CUMBERLAND LOCKS AND DAM	Pittsburgh	E-86
OPEKISKA LOCK AND DAM	Pittsburgh	E-86
PIKE ISLAND LOCKS AND DAM	Pittsburgh	E-86
R.D. BAILEY LAKE	Huntington	E-66
RACINE LOCKS AND DAM	Huntington	E-66
ROBERT C. BYRD LOCKS AND DAM	Huntington	E-83
STONEWALL JACKSON LAKE	Pittsburgh	E-87
SUMMERSVILLE LAKE	Huntington	E-67
SUTTON LAKE	Huntington	E-67
TYGART RIVER LAKE	Pittsburgh	E-87
WILLOW ISLAND LOCKS AND DAM	Huntington	E-68
WINFIELD LOCKS AND DAM	Huntington	E-68

Wisconsin

CEOARS LOCK AND DAM	Detroit	E-27
DEPERE LOCK AND DAM	Detroit	E-27
EAU GALLE RIVER LAKE	St. Paul	E-35
KAUKAUNA LOCKS AND DAM	Detroit	E-28
LITTLE CHUTE LOCKS AND DAM	Detroit	E-28
LITTLE KAUKAUNA LOCK AND DAM	Detroit	E-28
LOCK AND DAM NO. 3 - MISSISSIPPI RIVER	St. Paul	E-37
LOCK AND DAM NO. 4 - MISSISSIPPI RIVER	St. Paul	E-38
LOCK AND DAM NO. 5 - MISSISSIPPI RIVER	St. Paul	E-38
LOCK AND DAM NO. 5A - MISSISSIPPI RIVER	St. Paul	E-38
LOCK AND DAM NO. 6 - MISSISSIPPI RIVER	St. Paul	E-38
LOCK AND DAM NO. 7 - MISSISSIPPI RIVER	St. Paul	E-39
LOCK AND DAM NO. 8 - MISSISSIPPI RIVER	St. Paul	E-39
LOCK AND DAM NO. 9 - MISSISSIPPI RIVER	St. Paul	E-39
LOCK AND DAM NO. 10 - MISSISSIPPI RIVER	St. Paul	E-39
LOWER APPLETON LOCKS AND DAM	Detroit	E-28
MENASHA LOCK AND DAM - LAKE WINNEBAGO	Detroit	E-28
RAPIDE CROCHE LOCK AND DAM	Detroit	E-29
UPPER APPLETON LOCKS AND DAM	Detroit	E-29

APPENDIX C

PROJECTS ALPHABETICAL BY NAME

PROJECTS ALPHABETICAL BY NAME

<u>PROJECT NAME</u>	<u>STATE</u>	<u>CORPS OFFICE</u>	<u>PAGE</u>
ABERDEEN LOCK AND DAM	Mississippi	Mobile	E-93
ABIQUIU DAM	New Mexico	Albuquerque	E-111
ADDICKS DAM	Texas	Galveston	E-120
ALAMO LAKE	Arizona	Los Angeles	E-106
ALBENI FALLS DAM	Idaho	Seattle	E-54
ALLATOONA LAKE	Georgia	Mobile	E-93
ALMOND LAKE	New York	Baltimore	E-23
ALUM CREEK LAKE	Ohio	Huntington	E-59
ALVIN R. BUSH DAM	Pennsylvania	Baltimore	E-23
APPLEGATE LAKE	Oregon	Portland	E-49
AQUILLA LAKE	Texas	Fort Worth	E-113
ARCADIA LAKE	Oklahoma	Tulsa	E-129
ARKABUTLA LAKE	Mississippi	Vicksburg	E-1
ARKPORT DAM	New York	Baltimore	E-23
ARMISTEAD I. SELDEN LOCK AND DAM - WARRIOR LAKE	Alabama	Mobile	E-93
ARTHUR V. ORMAND LOCK AND DAM AND WINTHROP ROCKERFELLER LAKE	Arkansas	Little Rock	E-120
ATWOOD LAKE	Ohio	Huntington	E-59
AYLESWORTH CREEK LAKE	Pennsylvania	Baltimore	E-23
B. EVERETT JORDAN DAM AND LAKE	North Carolina	Wilmington	E-102
BALL MOUNTAIN LAKE	Vermont	New England	E-43
BARDWELL LAKE	Texas	Fort Worth	E-113
BARKER DAM	Texas	Galveston	E-120
BARKLEY DAM AND LAKE BARKLEY	Kentucky	Nashville	E-78
BARRE FALLS DAM	Massachusetts	New England	E-43
BARREN RIVER LAKE	Kentucky	Louisville	E-68
BAY SPRINGS LOCK AND DAM	Mississippi	Mobile	E-94
BEACH CITY LAKE	Ohio	Huntington	E-59
BEAR CREEK DAM AND LAKE	Colorado	Omaha	E-13
BEAR DAM (MERCED COUNTY STREAM GROUP)	California	Sacramento	E-104
BEAVER LAKE	Arkansas	Little Rock	E-121
BEECH FORK LAKE	West Virginia	Huntington	E-59
BELLEVILLE LOCKS AND DAM	West Virginia Ohio	Huntington	E-60
BELTON LAKE	Texas	Fort Worth	E-113
BELTZVILLE LAKE	Pennsylvania	Philadelphia	E-25
BENBROOK LAKE	Texas	Fort Worth	E-114
BERLIN LAKE	Ohio	Pittsburgh	E-81
BIG BEND DAM - LAKE SHARPE	South Dakota	Omaha	E-14
BIG CLIFF DAM	Oregon	Portland	E-49
BIG STONE LAKE - WHETSTONE RIVER (HIGHWAY 75 DAM)	Minnesota	St. Paul	E-35
BIRCH HILL DAM	Massachusetts	New England	E-43
BIRCH LAKE	Oklahoma	Tulsa	E-129
BLACK BUTTE LAKE	California	Sacramento	E-104
BLACK ROCK LAKE	Connecticut	New England	E-43
BLACKWATER DAM	New Hampshire	New England	E-43
BLAKELY MOUNTAIN DAM - LAKE OUACHITA	Arkansas	Vicksburg	E-1
BLUE MARSH LAKE	Pennsylvania	Philadelphia	E-26
BLUE MOUNTAIN LAKE	Arkansas	Little Rock	E-121

<u>PROJECT NAME</u>	<u>STATE</u>	<u>CORPS OFFICE</u>	<u>PAGE</u>
BLUE RIVER LAKE	Oregon	Portland	E-49
BLUE SPRINGS LAKE	Missouri	Kansas City	E-8
BLUESTONE LAKE	West Virginia	Huntington	E-60
BODCAU LAKE	Louisiana	Vicksburg	E-1
BOLIVAR DAM	Ohio	Huntington	E-60
BONNEVILLE LOCK AND DAM	Oregon Washington	Portland	E-50
BOWMAN-HALEY DAM AND LAKE	North Dakota	Omaha	E-14
BRANDON ROAD LOCK AND DAM	Illinois	Rock Island	E-29
BREA DAM (SANTA ANA RIVER BASIN)	California	Los Angeles	E-107
BROKEN BOW LAKE	Oklahoma	Tulsa	E-129
BROOKVILLE LAKE	Indiana	Louisville	E-69
BUCHANAN DAM - H.V. EASTMAN LAKE	California	Sacramento	E-104
BUCKHORN LAKE	Kentucky	Louisville	E-69
BUFFUMVILLE LAKE	Massachusetts	New England	E-44
BUFORD DAM - LAKE SIDNEY LANIER	Georgia	Mobile	E-94
BULL HOOK - SCOTT COULEE DAMS	Montana	Omaha	E-14
BULL SHOALS LAKE	Arkansas	Little Rock	E-121
BURNS DAM (MERCED COUNTY STREAM GROUP)	California	Sacramento	E-104
BURNSVILLE LAKE	West Virginia	Huntington	E-61
CADDO LAKE	Louisiana	Vicksburg	E-1
CAESAR CREEK LAKE	Ohio	Louisville	E-69
CAGLES MILL LAKE	Indiana	Louisville	E-69
CANNELTON LOCKS AND DAM	Kentucky Indiana	Louisville	E-69
CANTON LAKE	Oklahoma	Tulsa	E-129
CANYON LAKE	Texas	Fort Worth	E-114
CARBON CANYON DAM (SANTA ANA RIVER BASIN)	California	Los Angeles	E-107
CARLYLE LAKE	Illinois	St. Louis	E-5
CARR FORK LAKE	Kentucky	Louisville	E-69
CARTERS DAM AND LAKE	Georgia	Mobile	E-94
CAVE RUN LAKE	Kentucky	Louisville	E-70
CECIL M. HARDEN LAKE	Indiana	Louisville	E-70
CEDAR CANYON DAM	South Dakota	Omaha	E-15
CEDARS LOCK AND DAM	Wisconsin	Detroit	E-27
CENTER HILL LAKE	Tennessee	Nashville	E-78
CENTRAL AND SOUTHERN FLORIDA (C&SF) PROJECT	Florida	Jacksonville	E-89
CERRILLOS DAM AND RESERVOIR	Puerto Rico	Jacksonville	E-90
CHARLES MILL LAKE	Ohio	Huntington	E-81
CHATFIELD DAM AND LAKE	Colorado	Omaha	E-15
CHEATHAM LOCK AND DAM	Tennessee	Nashville	E-78
CHENA RIVER LAKES	Alaska	Alaska	E-49
CHERRY CREEK DAM AND LAKE	Colorado	Omaha	E-15
CHICAGO HARBOR LOCK AND CHICAGO RIVER	Illinois	Chicago	E-27
CONTROLLING WORKS			
CHIEF JOSEPH DAM - RUFUS WOODS LAKE	Washington	Seattle	E-55
CHOUTEAU LOCK AND DAM	Oklahoma	Tulsa	E-130
CLAIBORNE LOCK AND DAM	Alabama	Mobile	E-95
CLARENCE CANNON DAM - MARK TWAIN LAKE	Missouri	St. Louis	E-5
CLARENCE J. BROWN DAM AND RESERVOIR	Ohio	Louisville	E-70
CLEARWATER LAKE	Missouri	Little Rock	E-121
OLENDENING LAKE	Ohio	Huntington	E-81

<u>PROJECT NAME</u>	<u>STATE</u>	<u>CORPS OFFICE</u>	<u>PAGE</u>
CLINTON LAKE	Kansas	Kansas City	E-8
COCHITI LAKE	New Mexico	Albuquerque	E-111
COFFEEVILLE LOCK AND DAM	Alabama	Mobile	E-95
COLDBROOK DAM AND LAKE	South Dakota	Omaha	E-15
COLEBROOK RIVER LAKE	Connecticut Massachusetts	New England	E-44
COLUMBIA LOCK AND DAM	Louisiana	Vicksburg	E-2
COLUMBUS LOCK AND DAM	Mississippi	Mobile	E-95
CONANT BROOK DAM	Massachusetts	New England	E-44
CONCHAS LAKE	New Mexico	Albuquerque	E-111
CONEMAUGH RIVER LAKE	Pennsylvania	Pittsburgh	E-81
COOPER LAKE	Texas	Fort Worth	E-114
COPAN LAKE	Oklahoma	Tulsa	E-130
CORALVILLE LAKE	Iowa	Rock Island	E-29
CORDELL HULL LOCK AND DAM	Tennessee	Nashville	E-79
COTTAGE GROVE LAKE	Oregon	Portland	E-50
COTTONWOOD SPRINGS DAM AND LAKE	South Dakota	Omaha	E-15
COUGAR LAKE	Oregon	Portland	E-50
COUNCIL GROVE LAKE	Kansas	Tulsa	E-130
COWANESQUE LAKE	Pennsylvania	Baltimore	E-23
COYOTE VALLEY DAM - LAKE MENDOCINO	California	Sacramento	E-104
CPT. ANTHONY MELDAHL LOCKS AND DAM	Kentucky Ohio	Huntington	E-61
CROOKED CREEK LAKE	Pennsylvania	Pittsburgh	E-82
CURWENSVILLE LAKE	Pennsylvania	Baltimore	E-23
DALE HOLLOW LAKE	Tennessee	Nashville	E-79
DARDANELLE LOCK AND DAM	Arkansas	Little Rock	E-122
DASHIELDS LOCKS AND DAM	Pennsylvania	Pittsburgh	E-82
DAVID D. TERRY LOCK AND DAM	Arkansas	Little Rock	E-122
DEER CREEK LAKE	Ohio	Huntington	E-61
DEGRAY LAKE	Arkansas	Vicksburg	E-2
DELAWARE LAKE	Ohio	Huntington	E-62
DEMOPOLIS LOCK AND DAM	Alabama	Mobile	E-95
DENISON DAM - LAKE TEXOMA	Texas Oklahoma	Tulsa	E-130
DEPERE LOCK AND DAM	Wisconsin	Detroit	E-27
DEQUEEN LAKE	Arkansas	Little Rock	E-123
DETROIT LAKE	Oregon	Portland	E-51
DEWEY LAKE	Kentucky	Huntington	E-62
DEXTER DAM	Oregon	Portland	E-51
DIERKS LAKE	Arkansas	Little Rock	E-123
DILLON LAKE	Ohio	Huntington	E-62
DORENA LAKE	Oregon	Portland	E-51
DOVER DAM	Ohio	Huntington	E-62
DRESDEN ISLAND LOCK AND DAM	Illinois	Rock Island	E-30
DRY CREEK (WARM SPRINGS) LAKE AND CHANNEL	California	Sacramento	E-106
DWORSHAK DAM AND RESERVOIR	Idaho	Walla Walla	E-56
EAST BRANCH CLARION RIVER LAKE	Pennsylvania	Pittsburgh	E-82
EAST BRIMFIELD LAKE	Massachusetts	New England	E-44
EAST LYNN LAKE	West Virginia	Huntington	E-62
EAST SIDNEY LAKE	New York	Baltimore	E-24
EAU GALLE RIVER LAKE	Wisconsin	St. Paul	E-35
EDWARD MACDOWELL DAM	New Hampshire	New England	E-44

<u>PROJECT NAME</u>	<u>STATE</u>	<u>CORPS OFFICE</u>	<u>PAGE</u>
EL DORADO LAKE	Kansas	Tulsa	E-131
ELK CITY LAKE	Kansas	Tulsa	E-131
EMMITT SANDERS LOCK AND DAM	Arkansas	Little Rock	E-123
EMSWORTH LOCKS AND DAMS	Pennsylvania	Pittsburgh	E-82
ENID LAKE	Mississippi	Vicksburg	E-2
EUFAULA LAKE	Oklahoma	Tulsa	E-131
EVERETT LAKE	New Hampshire	New England	E-45
FALL CREEK LAKE	Oregon	Portland	E-51
FALL RIVER LAKE	Kansas	Tulsa	E-132
FALLS LAKE	North Carolina	Wilmington	E-102
FARMDALE DAM (FARM CREEK, IL)	Illinois	Rock Island	E-30
FARMINGTON DAM	California	Sacramento	E-105
FELSENTAL LOCK AND DAM	Arkansas	Vicksburg	E-3
FERN RIDGE LAKE	Oregon	Portland	E-52
FERRELL'S BRIDGE DAM - LAKE O' THE PINES	Texas	Fort Worth	E-115
FISHTRAP LAKE	Kentucky	Huntington	E-63
FONDULAC DAM (FARM CREEK, IL)	Illinois	Rock Island	E-30
FORT GIBSON LAKE	Oklahoma	Tulsa	E-132
FORT PECK DAM - FORT PECK LAKE	Montana	Omaha	E-16
FORT RANDALL DAM - LAKE FRANCIS CASE	South Dakota	Omaha	E-16
FORT SUPPLY LAKE	Oklahoma	Tulsa	E-132
FOSTER DAM	Oregon	Portland	E-52
FOSTER JOSEPH SAYERS DAM	Pennsylvania	Baltimore	E-24
FOUR RIVER BASINS (FRB) PROJECT	Florida	Jacksonville	E-90
FRANCIS E. WALTER RESERVOIR	Pennsylvania	Philadelphia	E-26
FRANKLIN FALLS DAM	New Hampshire	New England	E-45
FULLERTON DAM (SANTA ANA RIVER BASIN)	California	Los Angeles	E-107
GAINESVILLE LOCK AND DAM	Alabama	Mobile	E-96
GALISTEO DAM	New Mexico	Albuquerque	E-111
GARRISON DAM - LAKE SAKAKAWA	North Dakota	Omaha	E-17
GATHRIGHT DAM AND LAKE MOOMAW	Virginia	Norfolk	E-25
GAVINS POINT DAM - LEWIS AND CLARK LAKE	South Dakota Nebraska	Omaha	E-17
GENERAL EDGAR JADWIN DAM AND RESERVOIR	Pennsylvania	Philadelphia	E-26
GEORGE W. ANDREWS LOCK AND DAM	Georgia Alabama	Mobile	E-96
GILLHAM LAKE	Arkansas	Little Rock	E-124
GRANGER DAM AND LAKE	Texas	Fort Worth	E-115
GRAPEVINE LAKE	Texas	Fort Worth	E-115
GRAYS LANDING LOCK AND DAM	Pennsylvania	Pittsburgh	E-82
GRAYSON LAKE	Kentucky	Huntington	E-63
GREAT SALT PLAINS LAKE	Oklahoma	Tulsa	E-132
GREEN PETER LAKE	Oregon	Portland	E-52
GREEN RIVER LAKE	Kentucky	Louisville	E-70
GREENUP LOCKS AND DAM	Kentucky Ohio	Huntington	E-63
GREERS FERRY LAKE	Arkansas	Little Rock	E-124
GRENADE LAKE	Mississippi	Vicksburg	E-3
GULL LAKE DAM	Minnesota	St. Paul	E-35
H.K. THATCHER LOCK AND DAM	Arkansas	Vicksburg	E-3
HANCOCK BROOK LAKE	Connecticut	New England	E-45
HANNIBAL LOCKS AND DAM	West Virginia Ohio	Pittsburgh	E-82
HANSEN DAM (LOS ANGELES COUNTY DRAINAGE AREA)	California	Los Angeles	E-107

<u>PROJECT NAME</u>	<u>STATE</u>	<u>CORPS OFFICE</u>	<u>PAGE</u>
HARLAN COUNTY LAKE	Nebraska	Kansas City	E-8
HARRY S. TRUMAN DAM AND RESERVOIR	Missouri	Kansas City	E-9
HARTWELL DAM AND LAKE	South Carolina Georgia	Savannah	E-100
HEYBURN LAKE	Oklahoma	Tulsa	E-133
HIDDEN DAM - HENSLEY LAKE	California	Sacramento	E-105
HILDEBRAND LOCK AND DAM	West Virginia	Pittsburgh	E-83
HILLS CREEK LAKE	Oregon	Portland	E-53
HILLSDALE LAKE	Kansas	Kansas City	E-9
HODGES VILLAGE DAM	Massachusetts	New England	E-46
HOLT LOCK AND DAM	Alabama	Mobile	E-96
HOMME LAKE AND DAM	North Dakota	St. Paul	E-35
HOP BROOK LAKE	Connecticut	New England	E-45
HOPKINTON LAKE	New Hampshire	New England	E-45
HORDS CREEK LAKE	Texas	Fort Worth	E-115
HOWARD A. HANSON DAM	Washington	Seattle	E-55
HUGO LAKE	Oklahoma	Tulsa	E-133
HULAH LAKE	Oklahoma	Tulsa	E-133
HUNTINGTON LAKE	Indiana	Louisville	E-70
ICE HARBOR LOCK AND DAM - LAKE SACAJAWEA	Washington	Walla Walla	E-56
INGLIS LOCK AND DAM (CROSS FLORIDA BARGE CANAL PROJECT)	Florida	Jacksonville	E-91
ISABELLA LAKE	California	Sacramento	E-105
J. PERCY PRIEST DAM AND RESERVOIR	Tennessee	Nashville	E-79
J. STROM THURMOND DAM AND LAKE	Georgia South Carolina	Savannah	E-101
JAMES W. TRIMBLE LOCK AND DAM - JOHN PAUL HAMMERSCHMIDT LAKE	Arkansas	Little Rock	E-124
JEMEZ CANYON DAM	New Mexico	Albuquerque	E-112
JENNINGS RANDOLPH LAKE	Maryland West Virginia	Baltimore	E-24
JIM WOODRUFF LOCK AND DAM - LAKE SEMINOLE	Florida	Mobile	E-96
JOE HARDIN LOCK AND DAM	Arkansas	Little Rock	E-125
JOE POOL LAKE	Texas	Fort Worth	E-116
JOHN DAY LOCK AND DAM - LAKE UMATILLA	Oregon Washington	Portland	E-53
JOHN H. KERR DAM AND RESERVOIR	Virginia North Carolina	Wilmington	E-102
JOHN H. OVERTON LOCK AND DAM	Louisiana	Vicksburg	E-4
JOHN HOLLIS BANKHEAD LOCK AND DAM	Alabama	Mobile	E-97
JOHN MARTIN RESERVOIR	Colorado	Albuquerque	E-112
JOHN REDMOND DAM AND RESERVOIR	Kansas	Tulsa	E-133
JOHN W. FLANNAGAN DAM AND RESERVOIR	Virginia	Huntington	E-63
JONESVILLE LOCK AND DAM	Louisiana	Vicksburg	E-4
KANOPOLIS LAKE	Kansas	Kansas City	E-9
KASKASKIA RIVER LOCK AND DAM	Illinois	St. Louis	E-6
KAUKAUNA LOCKS AND DAM	Wisconsin	Detroit	E-28
KAW LAKE	Oklahoma	Tulsa	E-134
KELLY ROAD DAM	Colorado	Omaha	E-18
KEYSTONE LAKE	Oklahoma	Tulsa	E-134
KINZUA DAM AND ALLEGHENY RESERVOIR	Pennsylvania	Pittsburgh	E-83
KNIGHTVILLE DAM	Massachusetts	New England	E-46
LAC QUI PARLE LAKES (LAC QUI PARLE DAM)	Minnesota	St. Paul	E-96
LAC QUI PARLE LAKES (MARSH LAKE DAM)	Minnesota	St. Paul	E-96
LAGRANGE LOCK AND DAM	Illinois	Rook Island	E-30

<u>PROJECT NAME</u>	<u>STATE</u>	<u>CORPS OFFICE</u>	<u>PAGE</u>
LAKE ASHTABULA - BALDHILL DAM	North Dakota	St. Paul	E-36
LAKE SHELBYVILLE	Illinois	St. Louis	E-6
LAKE TRAVERSE (RESERVATION CONTROL DAM)	Minnesota South Dakota	St. Paul	E-36
LAKE TRAVERSE (WHITE ROCK DAM)	Minnesota South Dakota	St. Paul	E-36
LAUREL RIVER LAKE	Kentucky	Nashville	E-80
LAVON LAKE	Texas	Fort Worth	E-116
LEECH LAKE DAM	Minnesota	St. Paul	E-37
LEESVILLE LAKE	Ohio	Huntington	E-64
LEWISVILLE LAKE	Texas	Fort Worth	E-116
LIBBY DAM - LAKE KOOCANUSA	Montana	Seattle	E-55
LITTLE CHUTE LOCKS AND DAM	Wisconsin	Detroit	E-28
LITTLE GOOSE LOCK AND DAM - LAKE BRYAN	Washington	Walla Walla	E-57
LITTLE KAUKAUNA LOCK AND DAM	Wisconsin	Detroit	E-28
LITTLEVILLE LAKE	Massachusetts	New England	E-46
LOCK AND DAM NO. 2 - ALLEGHENY RIVER	Pennsylvania	Pittsburgh	E-83
LOCK AND DAM NO. 3 - ALLEGHENY RIVER	Pennsylvania	Pittsburgh	E-63
LOCK AND DAM NO. 4 - ALLEGHENY RIVER	Pennsylvania	Pittsburgh	E-83
LOCK AND DAM NO. 5 - ALLEGHENY RIVER	Pennsylvania	Pittsburgh	E-83
LOCK AND DAM NO. 6 - ALLEGHENY RIVER	Pennsylvania	Pittsburgh	E-83
LOCK AND DAM NO. 7 - ALLEGHENY RIVER	Pennsylvania	Pittsburgh	E-84
LOCK AND DAM NO. 8 - ALLEGHENY RIVER	Pennsylvania	Pittsburgh	E-84
LOCK AND DAM NO. 9 - ALLEGHENY RIVER	Pennsylvania	Pittsburgh	E-84
LOCK AND DAM NO. 5 - ARKANSAS RIVER	Arkansas	Little Rock	E-125
LOCK AND DAM NO. 1 - BARREN RIVER	Kentucky	Louisville	E-71
LOCK AND DAM NO. 1 - GREEN RIVER	Kentucky	Louisville	E-71
LOCK AND DAM NO. 2 - GREEN RIVER	Kentucky	Louisville	E-71
LOCK AND DAM NO. 3 - GREEN RIVER	Kentucky	Louisville	E-71
LOCK AND DAM NO. 4 - GREEN RIVER	Kentucky	Louisville	E-71
LOCK AND DAM NO. 5 - GREEN RIVER	Kentucky	Louisville	E-72
LOCK AND DAM NO. 6 - GREEN RIVER	Kentucky	Louisville	E-72
LOCK AND DAM NO. 1 - KENTUCKY RIVER	Kentucky	Louisville	E-72
LOCK AND DAM NO. 2 - KENTUCKY RIVER	Kentucky	Louisville	E-72
LOCK AND DAM NO. 3 - KENTUCKY RIVER	Kentucky	Louisville	E-72
LOCK AND DAM NO. 4 - KENTUCKY RIVER	Kentucky	Louisville	E-73
LOCK AND DAM NO. 5 - KENTUCKY RIVER	Kentucky	Louisville	E-73
LOCK AND DAM NO. 6 - KENTUCKY RIVER	Kentucky	Louisville	E-73
LOCK AND DAM NO. 7 - KENTUCKY RIVER	Kentucky	Louisville	E-73
LOCK AND DAM NO. 8 - KENTUCKY RIVER	Kentucky	Louisville	E-74
LOCK AND DAM NO. 9 - KENTUCKY RIVER	Kentucky	Louisville	E-74
LOCK AND DAM NO. 10 - KENTUCKY RIVER	Kentucky	Louisville	E-74
LOCK AND DAM NO. 11 - KENTUCKY RIVER	Kentucky	Louisville	E-74
LOCK AND DAM NO. 12 - KENTUCKY RIVER	Kentucky	Louisville	E-74
LOCK AND DAM NO. 13 - KENTUCKY RIVER	Kentucky	Louisville	E-75
LOCK AND DAM NO. 14 - KENTUCKY RIVER	Kentucky	Louisville	E-75
LOCK AND DAM NO. 1 - MISSISSIPPI RIVER	Minnesota	St. Paul	E-37
LOCK AND DAM NO. 2 - MISSISSIPPI RIVER	Minnesota	St. Paul	E-37
LOCK AND DAM NO. 3 - MISSISSIPPI RIVER	Minnesota Wisconsin	St. Paul	E-37
LOCK AND DAM NO. 4 - MISSISSIPPI RIVER	Minnesota Wisconsin	St. Paul	E-38
LOCK AND DAM NO. 5 - MISSISSIPPI RIVER	Minnesota Wisconsin	St. Paul	E-38
LOCK AND DAM NO. 5A - MISSISSIPPI RIVER	Minnesota Wisconsin	St. Paul	E-38

PROJECTS ALPHABETICAL BY NAME

<u>PROJECT NAME</u>	<u>STATE</u>	<u>CORPS OFFICE</u>	<u>PAGE</u>
LOCK AND DAM NO. 6 - MISSISSIPPI RIVER	Minnesota Wisconsin	St. Paul	E-38
LOCK AND DAM NO. 7 - MISSISSIPPI RIVER	Minnesota Wisconsin	St. Paul	E-39
LOCK AND DAM NO. 8 - MISSISSIPPI RIVER	Minnesota Wisconsin	St. Paul	E-39
LOCK AND DAM NO. 9 - MISSISSIPPI RIVER	Wisconsin Iowa	St. Paul	E-39
LOCK AND DAM NO. 10 - MISSISSIPPI RIVER	Iowa Wisconsin	St. Paul	E-39
LOCK AND DAM NO. 11 - MISSISSIPPI RIVER	Iowa	Rock Island	E-30
LOCK AND DAM NO. 12 - MISSISSIPPI RIVER	Iowa	Rock Island	E-31
LOCK AND DAM NO. 13 - MISSISSIPPI RIVER	Iowa	Rock Island	E-31
LOCK AND DAM NO. 14 - MISSISSIPPI RIVER	Iowa	Rock Island	E-31
LOCK AND DAM NO. 15 - MISSISSIPPI RIVER	Illinois	Rock Island	E-31
LOCK AND DAM NO. 16 - MISSISSIPPI RIVER	Iowa	Rock Island	E-31
LOCK AND DAM NO. 17 - MISSISSIPPI RIVER	Illinois	Rock Island	E-32
LOCK AND DAM NO. 18 - MISSISSIPPI RIVER	Iowa	Rock Island	E-32
LOCK AND DAM NO. 20 - MISSISSIPPI RIVER	Missouri	Rock Island	E-32
LOCK AND DAM NO. 21 - MISSISSIPPI RIVER	Illinois	Rock Island	E-32
LOCK AND DAM NO. 22 - MISSISSIPPI RIVER	Missouri	Rock Island	E-32
LOCK AND DAM NO. 24 - MISSISSIPPI RIVER	Missouri	St. Louis	E-6
LOCK AND DAM NO. 25 - MISSISSIPPI RIVER	Missouri	St. Louis	E-6
LOCKS NO. 27 - MISSISSIPPI RIVER	Illinois	St. Louis	E-6
LOCKS AND DAM NO. 2 - MONONGAHELA RIVER	Pennsylvania	Pittsburgh	E-84
LOCKS AND DAM NO. 3 - MONONGAHELA RIVER	Pennsylvania	Pittsburgh	E-84
LOCKS AND DAM NO. 4 - MONONGAHELA RIVER	Pennsylvania	Pittsburgh	E-84
LOCK AND DAM NO. 7 - MONONGAHELA RIVER	Pennsylvania	Pittsburgh	E-85
LOCKS AND DAM NO. 52 - OHIO RIVER	Kentucky Illinois	Louisville	E-75
LOCKS AND DAM NO. 53 - OHIO RIVER	Kentucky Illinois	Louisville	E-75
LOCK AND DAM NO. 1 - RED RIVER WATERWAY	Louisiana	Vicksburg	E-4
LOCK A - TENNESSEE-TOMBIGBEE WATERWAY	Mississippi	Mobile	E-97
LOCK B - TENNESSEE-TOMBIGBEE WATERWAY	Mississippi	Mobile	E-97
LOCK C - TENNESSEE-TOMBIGBEE WATERWAY	Mississippi	Mobile	E-98
LOCK D - TENNESSEE-TOMBIGBEE WATERWAY	Mississippi	Mobile	E-98
LOCK E - TENNESSEE-TOMBIGBEE WATERWAY	Mississippi	Mobile	E-98
LOCKPORT LOCK AND DAM	Illinois	Rock Island	E-33
LONDON LOCKS AND DAM	West Virginia	Huntington	E-64
LONG BRANCH LAKE	Missouri	Kansas City	E-10
LONGVIEW LAKE	Missouri	Kansas City	E-10
LOOKOUT POINT LAKE	Oregon	Portland	E-53
LOPEZ DAM (LOS ANGELES COUNTY DRAINAGE AREA)	California	Los Angeles	E-108
LOST CREEK LAKE	Oregon	Portland	E-54
LOWER APPLETON LOCKS AND DAM	Wisconsin	Detroit	E-28
LOWER GRANITE LOCK AND DAM	Washington	Walla Walla	E-57
LOWER MONUMENTAL LOCK AND DAM - LAKE HERBERT G. WEST	Washington	Walla Walla	E-57
LOYALHANNA LAKE	Pennsylvania	Pittsburgh	E-85
LUCKY PEAK LAKE	Idaho	Walla Walla	E-57
MAHONING CREEK LAKE	Pennsylvania	Pittsburgh	E-85
MANSFIELD HOLLOW LAKE	Connecticut	New England	E-46
MARION LAKE	Kansas	Tulsa	E-134
MARIPOSA DAM (MERCED COUNTY STREAM GROUP)	California	Sacramento	E-105
MARKLAND LOCKS AND DAMS	Kentucky Indiana	Louisville	E-75
MARNET LOCKS AND DAM	West Virginia	Huntington	E-64

PROJECTS ALPHABETICAL BY NAME

<u>PROJECT NAME</u>	<u>STATE</u>	<u>CORPS OFFICE</u>	<u>PAGE</u>
MARSEILLES LOCK, CANAL, MARSEILLES DAM	Illinois	Rock Island	E-33
MARTINS FORK LAKE	Kentucky	Nashville	E-80
MARTIS CREEK LAKE	California	Sacramento	E-105
MATHEWS CANYON DAM	Nevada	Los Angeles	E-108
MAXWELL LOCKS AND DAM	Pennsylvania	Pittsburgh	E-85
MCALPINE LOCKS AND DAM	Kentucky Indiana	Louisville	E-75
MCNARY LOCK AND DAM - LAKE WALLULA	Oregon Washington	Walla Walla	E-58
MELVERN LAKE	Kansas	Kansas City	E-11
MELVIN PRICE LOCKS AND DAM	Illinois	St. Louis	E-6
MENASHA LOCK AND DAM - LAKE WINNEBAGO	Wisconsin	Detroit	E-28
MICHAEL J. KIRWAN DAM AND RESERVOIR	Ohio	Pittsburgh	E-85
MILFORD LAKE	Kansas	Kansas City	E-11
MILLERS FERRY LOCK AND DAM - WILLIAM "BILL" DANNELLY LAKE	Alabama	Mobile	E-98
MILLWOOD LAKE	Arkansas	Little Rock	E-125
MISSISSINewa LAKE	Indiana	Louisville	E-76
MOHAWK DAM	Ohio	Huntington	E-64
MOHICANVILLE DAM	Ohio	Huntington	E-64
MOJAVE RIVER RESERVOIR	California	Los Angeles	E-108
MONROE LAKE	Indiana	Louisville	E-76
MONTGOMERY LOCKS AND DAM	Pennsylvania	Pittsburgh	E-85
MORGANTOWN LOCK AND DAM	West Virginia	Pittsburgh	E-86
MOSQUITO CREEK LAKE	Ohio	Pittsburgh	E-86
MOUNT MORRIS DAM	New York	Buffalo	E-27
MUD MOUNTAIN DAM	Washington	Seattle	E-55
MURRAY LOCK AND DAM	Arkansas	Little Rock	E-126
NARROWS DAM - LAKE GREESON	Arkansas	Vicksburg	E-4
NAVARRO MILLS LAKE	Texas	Fort Worth	E-117
NEW CUMBERLAND LOCKS AND DAM	West Virginia Ohio	Pittsburgh	E-86
NEW HOGAN LAKE	California	Sacramento	E-106
NEW SAVANNAH BLUFF LOCK AND DAM	Georgia South Carolina	Savannah	E-101
NEWBURGH LOCKS AND DAM	Kentucky Indiana	Louisville	E-76
NEWT GRAHAM LOCK AND DAM	Oklahoma	Tulsa	E-135
NIMROD LAKE	Arkansas	Little Rock	E-126
NOLIN LAKE	Kentucky	Louisville	E-76
NORFORK LAKE	Arkansas	Little Rock	E-126
NORRELL LOCK AND DAM	Arkansas	Little Rock	E-127
NORTH BRANCH KOKOSING RIVER LAKE	Ohio	Huntington	E-65
NORTH FORK OF POUND LAKE	Virginia	Huntington	E-65
NORTH HARTLAND LAKE	Vermont	New England	E-46
NORTH SAN GABRIEL DAM - GEORGETOWN LAKE	Texas	Fort Worth	E-117
NORTH SPRINGFIELD LAKE	Vermont	New England	E-46
NORTHFIELD BROOK LAKE	Connecticut	New England	E-47
O.C. FISHER DAM AND LAKE	Texas	Fort Worth	E-117
OAHE DAM - LAKE OAHE	South Dakota North Dakota	Omaha	E-18
OKATIBBEE LAKE	Mississippi	Mobile	E-99
OKEEOHOBEE WATERWAY PROJECT	Florida	Jacksonville	E-91
OKLAWAHA RIVER PROJECT	Florida	Jacksonville	E-92
OLD HICKORY LOCK AND DAM	Tennessee	Nashville	E-80
OOLOGAH LAKE	Oklahoma	Tulsa	E-135

<u>PROJECT NAME</u>	<u>STATE</u>	<u>CORPS OFFICE</u>	<u>PAGE</u>
OPEKISKA LOCK AND DAM	West Virginia	Pittsburgh	E-86
OPTIMA LAKE	Oklahoma	Tulsa	E-135
ORWELL LAKE	Minnesota	St. Paul	E-40
OTTER BROOK LAKE	New Hampshire	New England	E-47
OWENS DAM (MERCED COUNTY STREAM GROUP)	California	Sacramento	E-106
OZARK JETTA-TAYLOR LOCK AND DAM	Arkansas	Little Rock	E-127
PAINT CREEK LAKE	Ohio	Huntington	E-65
PAINTED ROCK DAM	Arizona	Los Angeles	E-108
PAINTSVILLE LAKE	Kentucky	Huntington	E-65
PAPILLION CREEK DAM #11 - GLENN CUNNINGHAM LAKE	Nebraska	Omaha	E-19
PAPILLION CREEK DAM #16 - STANDING BEAR LAKE	Nebraska	Omaha	E-19
PAPILLION CREEK DAM #18 - ZORINSKY LAKE	Nebraska	Omaha	E-19
PAPILLION CREEK DAM #20 - WEHRSPANN LAKE	Nebraska	Omaha	E-19
PAT MAYSE LAKE	Texas	Tulsa	E-135
PATOKA LAKE	Indiana	Louisville	E-76
PEARSON-SKUBITZ BIG HILL LAKE	Kansas	Tulsa	E-136
PEORIA LOCK AND DAM	Illinois	Rock Island	E-33
PERRY LAKE	Kansas	Kansas City	E-11
PHILPOTT LAKE	Virginia	Wilmington	E-102
PIEDMONT LAKE	Ohio	Huntington	E-65
PIKE ISLAND LOCKS AND DAM	West Virginia Ohio	Pittsburgh	E-86
PINE CANYON DAM	Nevada	Los Angeles	E-109
PINE CREEK LAKE	Oklahoma	Tulsa	E-136
PINE FLAT LAKE AND KINGS RIVER	California	Sacramento	E-106
PINE RIVER DAM (CROSS LAKE)	Minnesota	St. Paul	E-40
PIPESTEM DAM AND LAKE	North Dakota	Omaha	E-19
PLEASANT HILL LAKE	Ohio	Huntington	E-66
POINT MARION LOCK AND DAM	Pennsylvania	Pittsburgh	E-87
POKEGAMA DAM	Minnesota	St. Paul	E-40
POMME DE TERRE LAKE	Missouri	Kansas City	E-12
POMONA LAKE	Kansas	Kansas City	E-12
PORTUGUES DAM AND RESERVOIR	Puerto Rico	Jacksonville	E-92
PRADO DAM (SANTA ANA RIVER BASIN)	California	Los Angeles	E-109
PROCTOR LAKE	Texas	Fort Worth	E-117
PROMPTON RESERVOIR	Pennsylvania	Philadelphia	E-28
R.D. BAILEY LAKE	West Virginia	Huntington	E-66
RACINE LOCKS AND DAM	West Virginia Ohio	Huntington	E-86
RAPIDE CROCHE LOCK AND DAM	Wisconsin	Detroit	E-29
RATHBUN LAKE	Iowa	Kansas City	E-12
RAY ROBERTS LAKE	Texas	Fort Worth	E-116
RAYSTOWN LAKE	Pennsylvania	Baltimore	E-24
RED LAKE RIVER	Minnesota	St. Paul	E-40
RED ROCK DAM AND LAKE RED ROCK	Iowa	Rock Island	E-33
REND LAKE	Illinois	St. Louis	E-7
ROBERT C. BYRD LOCKS AND DAM	West Virginia Ohio	Huntington	E-83
RICHARD B. RUSSELL DAM AND LAKE	South Carolina Georgia	Savannah	E-101
ROBERT F. HENRY LOCK AND DAM - R.E. "BOB"	Alabama	Mobile	E-99
WOODRUFF RESERVOIR			
ROBERT S. KERR LOCK AND DAM AND RESERVOIR	Oklahoma	Tulsa	E-136

<u>PROJECT NAME</u>	<u>STATE</u>	<u>CORPS OFFICE</u>	<u>PAGE</u>
RODMAN LOCK AND DAM (CROSS FLORIDA BARGE CANAL PROJECT)	Florida	Jacksonville	E-92
ROUGH RIVER LAKE	Kentucky	Louisville	E-76
SALAMONIE LAKE	Indiana	Louisville	E-77
SALT CREEK DAM #2 - OLIVE CREEK LAKE	Nebraska	Omaha	E-20
SALT CREEK DAM #4 - BLUE STEM LAKE	Nebraska	Omaha	E-20
SALT CREEK DAM #8 - WAGON TRAIN LAKE	Nebraska	Omaha	E-20
SALT CREEK DAM #9 - STAGECOACH LAKE	Nebraska	Omaha	E-20
SALT CREEK DAM #10 - YANKEE HILL LAKE	Nebraska	Omaha	E-20
SALT CREEK DAM #12 - CONESTOGA LAKE	Nebraska	Omaha	E-21
SALT CREEK DAM #13 - TWIN LAKE	Nebraska	Omaha	E-21
SALT CREEK DAM #14 - PAWNEE LAKE	Nebraska	Omaha	E-21
SALT CREEK DAM #17 - HOLMES LAKE PARK	Nebraska	Omaha	E-21
SALT CREEK DAM #18 - BRANCHED OAK LAKE	Nebraska	Omaha	E-21
SAM RAYBURN DAM AND RESERVOIR	Texas	Fort Worth	E-118
SAN ANTONIO DAM (SANTA ANA RIVER BASIN)	California	Los Angeles	E-109
SANDY LAKE DAM	Minnesota	St. Paul	E-41
SANTA FE DAM (LOS ANGELES COUNTY DRAINAGE AREA)	California	Los Angeles	E-109
SANTA ROSA DAM AND LAKE	New Mexico	Albuquerque	E-112
SARDIS DAM	Mississippi	Vicksburg	E-5
SARDIS LAKE	Oklahoma	Tulsa	E-136
SAYLORVILLE LAKE	Iowa	Rock Island	E-34
SENECAVILLE LAKE	Ohio	Huntington	E-66
SEPULVEDA DAM (LOS ANGELES COUNTY DRAINAGE AREA)	California	Los Angeles	E-110
SHENANGO RIVER LAKE	Pennsylvania	Pittsburgh	E-87
SKIATOOK LAKE	Oklahoma	Tulsa	E-137
SMITHLAND LOCKS AND DAM	Kentucky Illinois	Louisville	E-77
SMITHVILLE LAKE	Missouri	Kansas City	E-12
SNAKE CREEK DAM - LAKE AUDUBON	North Dakota	Omaha	E-22
SOMERVILLE LAKE	Texas	Fort Worth	E-118
SPRING CREEK DAM - LAKE POCASSE	South Dakota	Omaha	E-22
ST. ANTHONY FALLS LOWER LOCK AND DAM	Minnesota	St. Paul	E-41
ST. ANTHONY FALLS UPPER LOCK AND DAM	Minnesota	St. Paul	E-41
STARVED ROCK LOCK AND DAM	Illinois	Rock Island	E-34
STILLHOUSE HOLLOW LAKE	Texas	Fort Worth	E-118
STILLWATER LAKE	Pennsylvania	Baltimore	E-24
STOCKTON LAKE	Missouri	Kansas City	E-13
STONEWALL JACKSON LAKE	West Virginia	Pittsburgh	E-87
SUCCESS LAKE	California	Sacramento	E-106
SUMMERSVILLE LAKE	West Virginia	Huntington	E-67
SURRY MOUNTAIN LAKE	New Hampshire	New England	E-47
SUTTON LAKE	West Virginia	Huntington	E-87
TABLE ROCK LAKE	Missouri	Little Rock	E-128
TAPPAN LAKE	Ohio	Huntington	E-67
TAYLORSVILLE LAKE	Kentucky	Louisville	E-77
TENKILLER FERRY LAKE	Oklahoma	Tulsa	E-137
TERMINUS DAM - LAKE KAWAHA	California	Sacramento	E-106
THE DALLES LOCK AND DAM - LAKE CELILO	Oregon Washington	Portland	E-54
THOMAS J. O'BRIEN LOCK AND CONTROLLING WORKS	Illinois	Rock Island	E-34
THOMASTON DAM	Connecticut	New England	E-47

PROJECT NAME	STATE	CORPS OFFICE	PAGE
TIOGA-HAMMOND LAKES	Pennsylvania	Baltimore	E-25
TIONESTA LAKE	Pennsylvania	Pittsburgh	E-87
TOAD SUCK FERRY LOCK AND DAM	Arkansas	Little Rock	E-128
TOM BEVILL LOCK AND DAM	Alabama	Mobile	E-99
TOM JENKINS DAM	Ohio	Huntington	E-67
TORONTO LAKE	Kansas	Tulsa	E-137
TOWN BLUFF DAM - B.A. STEINHAGEN LAKE	Texas	Fort Worth	E-119
TOWNSHEND LAKE	Vermont	New England	E-47
TRINIDAD LAKE	Colorado	Albuquerque	E-112
TULLY LAKE	Massachusetts	New England	E-47
TUTTLE CREEK LAKE	Kansas	Kansas City	E-13
TWO RIVERS DAM	New Mexico	Albuquerque	E-112
TYGART RIVER LAKE	West Virginia	Pittsburgh	E-87
UNION CITY DAM	Pennsylvania	Pittsburgh	E-88
UNION VILLAGE DAM	Vermont	New England	E-48
UNIONTOWN LOCKS AND DAM	Kentucky Indiana	Louisville	E-77
UPPER APPLETON LOCKS AND DAM	Wisconsin	Detroit	E-29
VIRGIL B. BENNINGTON LAKE	Washington	Walla Walla	E-58
W. KERR SCOTT DAM AND RESERVOIR	North Carolina	Wilmington	E-103
W.D. MAYO LOCK AND DAM	Oklahoma	Tulsa	E-137
WACO LAKE	Texas	Fort Worth	E-119
WALLACE LAKE	Louisiana	Vicksburg	E-6
WALTER F. GEORGE LOCK AND DAM	Georgia Alabama	Mobile	E-100
WAPPAPELLO LAKE	Missouri	St. Louis	E-7
WAURIKA LAKE	Oklahoma	Tulsa	E-138
WEBBERS FALLS LOCK AND DAM AND RESERVOIR	Oklahoma	Tulsa	E-138
WEST FORK OF MILL CREEK LAKE	Ohio	Louisville	E-77
WEST HILL DAM	Massachusetts	New England	E-48
WEST POINT DAM AND LAKE	Georgia	Mobile	E-100
WEST THOMPSON LAKE	Connecticut	New England	E-48
WESTVILLE LAKE	Massachusetts	New England	E-48
WHITLOW RANCH DAM	Arizona	Los Angeles	E-110
WHITNEY LAKE	Texas	Fort Worth	E-119
WHITNEY POINT LAKE	New York	Baltimore	E-25
WHITTIER NARROWS DAM (LOS ANGELES COUNTY DRAINAGE AREA)	California	Los Angeles	E-110
WILBUR D. MILLS LOCK AND DAM	Arkansas	Little Rock	E-128
WILLIAM BACON OLIVER LOCK AND DAM	Alabama	Mobile	E-100
WILLIAM H. HARSHA LAKE	Ohio	Louisville	E-77
WILLOW CREEK LAKE	Oregon	Portland	E-54
WILLOW ISLAND LOCKS AND DAM	West Virginia Ohio	Huntington	E-68
WILLS CREEK LAKE	Ohio	Huntington	E-68
WILSON LAKE	Kansas	Kansas City	E-13
WINFIELD LOCKS AND DAM	West Virginia	Huntington	E-68
WINNIBIGOSHISH DAM	Minnesota	St. Paul	E-41
WISTER LAKE	Oklahoma	Tulsa	E-138
WOLF CREEK DAM - LAKE CUMBERLAND	Kentucky	Nashville	E-81
WOODCOCK CREEK LAKE	Pennsylvania	Pittsburgh	E-88
WRIGHT PATMAN DAM AND LAKE	Texas	Fort Worth	E-120
WYNOOCHEE LAKE	Washington	Seattle	E-56

<u>PROJECT NAME</u>	<u>STATE</u>	<u>CORPS OFFICE</u>	<u>PAGE</u>
YATESVILLE LAKE	Kentucky	Huntington	E-68
YORK INDIAN ROCK DAM	Pennsylvania	Baltimore	E-25
YOUGHIOGHENY RIVER LAKE	Pennsylvania	Pittsburgh	E-88

APPENDIX D
PROJECTS BY CORPS OF ENGINEERS OFFICE

ALABAMA	ALABAMA	ALABAMA
ALASKA	ALASKA	ALASKA
ARIZONA	ARIZONA	ARIZONA
ARKANSAS	ARKANSAS	ARKANSAS
CALIFORNIA	CALIFORNIA	CALIFORNIA
COLORADO	COLORADO	COLORADO
CONNECTICUT	CONNECTICUT	CONNECTICUT
DELAWARE	DELAWARE	DELAWARE
FLORIDA	FLORIDA	FLORIDA
GEORGIA	GEORGIA	GEORGIA
HAWAII	HAWAII	HAWAII
ILLINOIS	ILLINOIS	ILLINOIS
INDIANA	INDIANA	INDIANA
IOWA	IOWA	IOWA
KANSAS	KANSAS	KANSAS
KENTUCKY	KENTUCKY	KENTUCKY
LOUISIANA	LOUISIANA	LOUISIANA
MAINE	MAINE	MAINE
MARYLAND	MARYLAND	MARYLAND
MASSACHUSETTS	MASSACHUSETTS	MASSACHUSETTS
MICHIGAN	MICHIGAN	MICHIGAN
MINNESOTA	MINNESOTA	MINNESOTA
MISSISSIPPI	MISSISSIPPI	MISSISSIPPI
MISSOURI	MISSOURI	MISSOURI
MONTANA	MONTANA	MONTANA
MONTGOMERY	MONTGOMERY	MONTGOMERY
NEBRASKA	NEBRASKA	NEBRASKA
NEVADA	NEVADA	NEVADA
NEW HAMPSHIRE	NEW HAMPSHIRE	NEW HAMPSHIRE
NEW JERSEY	NEW JERSEY	NEW JERSEY
NEW MEXICO	NEW MEXICO	NEW MEXICO
NEW YORK	NEW YORK	NEW YORK
NORTH CAROLINA	NORTH CAROLINA	NORTH CAROLINA
NORTH DAKOTA	NORTH DAKOTA	NORTH DAKOTA
OHIO	OHIO	OHIO
OKLAHOMA	OKLAHOMA	OKLAHOMA
OREGON	OREGON	OREGON
PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA
RHODE ISLAND	RHODE ISLAND	RHODE ISLAND
SOUTH CAROLINA	SOUTH CAROLINA	SOUTH CAROLINA
SOUTH DAKOTA	SOUTH DAKOTA	SOUTH DAKOTA
TENNESSEE	TENNESSEE	TENNESSEE
TEXAS	TEXAS	TEXAS
UTAH	UTAH	UTAH
VIRGINIA	VIRGINIA	VIRGINIA
WASHINGTON	WASHINGTON	WASHINGTON
WEST VIRGINIA	WEST VIRGINIA	WEST VIRGINIA
WISCONSIN	WISCONSIN	WISCONSIN
WYOMING	WYOMING	WYOMING

PROJECTS BY CORPS OF ENGINEERS OFFICE

Lower Mississippi Valley Division

<u>PROJECT NAME</u>	<u>STATE</u>	<u>CORPS OFFICE</u>	<u>PAGE</u>
ARKABUTLA LAKE	Mississippi	Vicksburg	E-1
BLAKELY MOUNTAIN DAM - LAKE OUACHITA	Arkansas	Vicksburg	E-1
BODCAU LAKE	Louisiana	Vicksburg	E-1
CADDO LAKE	Louisiana	Vicksburg	E-1
COLUMBIA LOCK AND DAM	Louisiana	Vicksburg	E-2
DEGRAY LAKE	Arkansas	Vicksburg	E-2
ENID LAKE	Mississippi	Vicksburg	E-2
FELSENTHAL LOCK AND DAM	Arkansas	Vicksburg	E-3
GRENADA LAKE	Mississippi	Vicksburg	E-3
H.K. THATCHER LOCK AND DAM	Arkansas	Vicksburg	E-3
JOHN H. OVERTON LOCK AND DAM	Louisiana	Vicksburg	E-4
JONESVILLE LOCK AND DAM	Louisiana	Vicksburg	E-4
LOCK AND DAM NO. 1 - RED RIVER WATERWAY	Louisiana	Vicksburg	E-4
NARROWS DAM - LAKE GREESON	Arkansas	Vicksburg	E-4
SARDIS DAM	Mississippi	Vicksburg	E-5
WALLACE LAKE	Louisiana	Vicksburg	E-5
CARLYLE LAKE	Illinois	St. Louis	E-5
CLARENCE CANNON DAM - MARK TWAIN LAKE	Missouri	St. Louis	E-5
KASKASKIA RIVER LOCK AND DAM	Illinois	St. Louis	E-6
LAKE SHELBYVILLE	Illinois	St. Louis	E-6
LOCK AND DAM NO. 24 - MISSISSIPPI RIVER	Missouri	St. Louis	E-6
LOCK AND DAM NO. 25 - MISSISSIPPI RIVER	Missouri	St. Louis	E-6
LOCKS NO. 27 - MISSISSIPPI RIVER	Illinois	St. Louis	E-6
MELVIN PRICE LOCKS AND DAM	Illinois	St. Louis	E-6
REND LAKE	Illinois	St. Louis	E-7
WAPPAPELLO LAKE	Missouri	St. Louis	E-7

Missouri River Division

<u>PROJECT NAME</u>	<u>STATE</u>	<u>CORPS OFFICE</u>	<u>PAGE</u>
BLUE SPRINGS LAKE	Missouri	Kansas City	E-8
CLINTON LAKE	Kansas	Kansas City	E-8
HARLAN COUNTY LAKE	Nebraska	Kansas City	E-8
HARRY S. TRUMAN DAM AND RESERVOIR	Missouri	Kansas City	E-9
HILLSDALE LAKE	Kansas	Kansas City	E-9
KANOPOLIS LAKE	Kansas	Kansas City	E-9
LONG BRANCH LAKE	Missouri	Kansas City	E-10
LONGVIEW LAKE	Missouri	Kansas City	E-10
MELVERN LAKE	Kansas	Kansas City	E-11
MILFORD LAKE	Kansas	Kansas City	E-11
PERRY LAKE	Kansas	Kansas City	E-11
POMME DE TERRE LAKE	Missouri	Kansas City	E-12
POMONA LAKE	Kansas	Kansas City	E-12
RATHBUN LAKE	Iowa	Kansas City	E-12
SMITHVILLE LAKE	Missouri	Kansas City	E-12

STOCKTON LAKE	Missouri	Kansas City	E-13
TUTTLE CREEK LAKE	Kansas	Kansas City	E-13
WILSON LAKE	Kansas	Kansas City	E-13
BEAR CREEK DAM AND LAKE	Colorado	Omaha	E-13
BIG BEND DAM - LAKE SHARPE	South Dakota	Omaha	E-14
BOWMAN-HALEY DAM AND LAKE	North Dakota	Omaha	E-14
BULL HOOK - SCOTT COULEE DAMS	Montana	Omaha	E-14
CEDAR CANYON DAM	South Dakota	Omaha	E-15
CHATFIELD DAM AND LAKE	Colorado	Omaha	E-15
CHERRY CREEK DAM AND LAKE	Colorado	Omaha	E-15
COLDBROOK DAM AND LAKE	South Dakota	Omaha	E-15
COTTONWOOD SPRINGS DAM AND LAKE	South Dakota	Omaha	E-15
FORT PECK DAM - FORT PECK LAKE	Montana	Omaha	E-16
FORT RANDALL DAM - LAKE FRANCIS CASE	South Dakota	Omaha	E-16
GARRISON DAM - LAKE SAKAKAWEA	North Dakota	Omaha	E-17
GAVINS POINT DAM - LEWIS AND CLARK LAKE	South Dakota Nebraska	Omaha	E-17
KELLY ROAD DAM	Colorado	Omaha	E-18
OAHE DAM - LAKE OAHE	South Dakota North Dakota	Omaha	E-18
PAPILLION CREEK DAM #11 - GLENN CUNNINGHAM LAKE	Nebraska	Omaha	E-19
PAPILLION CREEK DAM #16 - STANDING BEAR LAKE	Nebraska	Omaha	E-19
PAPILLION CREEK DAM #18 - ZORINSKY LAKE	Nebraska	Omaha	E-19
PAPILLION CREEK DAM #20 - WEHRSPANN LAKE	Nebraska	Omaha	E-19
PIPESTEM DAM AND LAKE	North Dakota	Omaha	E-19
SALT CREEK DAM #2 - OLIVE CREEK LAKE	Nebraska	Omaha	E-20
SALT CREEK DAM #4 - BLUE STEM LAKE	Nebraska	Omaha	E-20
SALT CREEK DAM #6 - WAGON TRAIN LAKE	Nebraska	Omaha	E-20
SALT CREEK DAM #9 - STAGECOACH LAKE	Nebraska	Omaha	E-20
SALT CREEK DAM #10 - YANKEE HILL LAKE	Nebraska	Omaha	E-20
SALT CREEK DAM #12 - CONESTOGA LAKE	Nebraska	Omaha	E-21
SALT CREEK DAM #13 - TWIN LAKE	Nebraska	Omaha	E-21
SALT CREEK DAM #14 - PAWNEE LAKE	Nebraska	Omaha	E-21
SALT CREEK DAM #17 - HOLMES LAKE PARK	Nebraska	Omaha	E-21
SALT CREEK DAM #18 - BRANCHED OAK LAKE	Nebraska	Omaha	E-21
SNAKE CREEK DAM - LAKE AUDUBON	North Dakota	Omaha	E-22
SPRING CREEK DAM - LAKE POCASSE	South Dakota	Omaha	E-22

North Atlantic Division

<u>PROJECT NAME</u>	<u>STATE</u>	<u>CORPS OFFICE</u>	<u>PAGE</u>
ALMOND LAKE	New York	Baltimore	E-23
ALVIN R. BUSH DAM	Pennsylvania	Baltimore	E-23
ARKPORT DAM	New York	Baltimore	E-23
AYLESWORTH CREEK LAKE	Pennsylvania	Baltimore	E-23
COWANESQUE LAKE	Pennsylvania	Baltimore	E-23
CURWENSVILLE LAKE	Pennsylvania	Baltimore	E-23
EAST SIDNEY LAKE	New York	Baltimore	E-24
FOSTER JOSEPH SAYERS DAM	Pennsylvania	Baltimore	E-24
JENNINGS RANDOLPH LAKE	Maryland West Virginia	Baltimore	E-24
RAYSTOWN LAKE	Pennsylvania	Baltimore	E-24
STILLWATER LAKE	Pennsylvania	Baltimore	E-24
TIOGA-HAMMOND LAKES	Pennsylvania	Baltimore	E-25
WHITNEY POINT LAKE	New York	Baltimore	E-25

YORK INDIAN ROCK DAM	Pennsylvania	Baltimore	E-25
GATHRIGHT DAM AND LAKE MOOMAW	Virginia	Norfolk	E-25
BELTZVILLE LAKE	Pennsylvania	Philadelphia	E-25
BLUE MARSH LAKE	Pennsylvania	Philadelphia	E-26
FRANCIS E. WALTER RESERVOIR	Pennsylvania	Philadelphia	E-26
GENERAL EDGAR JADWIN DAM AND RESERVOIR	Pennsylvania	Philadelphia	E-26
PROMPTON RESERVOIR	Pennsylvania	Philadelphia	E-26

North Central Division

<u>PROJECT NAME</u>	<u>STATE</u>	<u>CORPS OFFICE</u>	<u>PAGE</u>
MOUNT MORRIS DAM	New York	Buffalo	E-27
CHICAGO HARBOR LOCK AND CHICAGO RIVER CONTROLLING WORKS	Illinois	Chicago	E-27
CEDARS LOCK AND DAM	Wisconsin	Detroit	E-27
DEPERE LOCK AND DAM	Wisconsin	Detroit	E-27
KAUKAUNA LOCKS AND DAM	Wisconsin	Detroit	E-28
LITTLE CHUTE LOCKS AND DAM	Wisconsin	Detroit	E-28
LITTLE KAUKAUNA LOCK AND DAM	Wisconsin	Detroit	E-28
LOWER APPLETON LOCKS AND DAM	Wisconsin	Detroit	E-28
MENASHA LOCK AND DAM - LAKE WINNEBAGO	Wisconsin	Detroit	E-28
RAPIDE CROCHE LOCK AND DAM	Wisconsin	Detroit	E-29
UPPER APPLETON LOCKS AND DAM	Wisconsin	Detroit	E-29
BRANDON ROAD LOCK AND DAM	Illinois	Rock Island	E-29
CORALVILLE LAKE	Iowa	Rock Island	E-29
DRESDEN ISLAND LOCK AND DAM	Illinois	Rock Island	E-30
FARMDALE DAM (FARM CREEK, IL)	Illinois	Rock Island	E-30
FONDULAC DAM (FARM CREEK, IL)	Illinois	Rock Island	E-30
LAGRANGE LOCK AND DAM	Illinois	Rock Island	E-30
LOCK AND DAM NO. 11 - MISSISSIPPI RIVER	Iowa	Rock Island	E-30
LOCK AND DAM NO. 12 - MISSISSIPPI RIVER	Iowa	Rock Island	E-31
LOCK AND DAM NO. 13 - MISSISSIPPI RIVER	Iowa	Rock Island	E-31
LOCK AND DAM NO. 14 - MISSISSIPPI RIVER	Iowa	Rock Island	E-31
LOCK AND DAM NO. 15 - MISSISSIPPI RIVER	Illinois	Rock Island	E-31
LOCK AND DAM NO. 16 - MISSISSIPPI RIVER	Iowa	Rock Island	E-31
LOCK AND DAM NO. 17 - MISSISSIPPI RIVER	Illinois	Rock Island	E-32
LOCK AND DAM NO. 18 - MISSISSIPPI RIVER	Iowa	Rock Island	E-32
LOCK AND DAM NO. 20 - MISSISSIPPI RIVER	Missouri	Rock Island	E-32
LOCK AND DAM NO. 21 - MISSISSIPPI RIVER	Illinois	Rock Island	E-32
LOCK AND DAM NO. 22 - MISSISSIPPI RIVER	Missouri	Rock Island	E-32
LOCKPORT LOCK AND DAM	Illinois	Rock Island	E-33
MARSEILLES LOCK, CANAL, MARSEILLES DAM	Illinois	Rock Island	E-33
PEORIA LOCK AND DAM	Illinois	Rock Island	E-33
RED ROCK DAM AND LAKE RED ROCK	Iowa	Rock Island	E-33
8AYLORVILLE LAKE	Iowa	Rock Island	E-34
STARVED ROCK LOCK AND DAM	Illinois	Rock Island	E-34
THOMAS J. O'BRIEN LOCK AND CONTROLLING WORKS	Illinois	Rock Island	E-34
BIG STONE LAKE - WHETSTONE RIVER (HIGHWAY 75 DAM)	Minnesota	St. Paul	E-35
EAU GALLE RIVER LAKE	Wisconsin	St. Paul	E-35
GULL LAKE DAM	Minnesota	St. Paul	E-35
HOMME LAKE AND DAM	North Dakota	St. Paul	E-35

LAC QUI PARLE LAKES (LAC QUI PARLE DAM)	Minnesota	St. Paul	E-36
LAC QUI PARLE LAKES (MARSH LAKE DAM)	Minnesota	St. Paul	E-36
LAKE ASHTABULA - BALDHILL DAM	North Dakota	St. Paul	E-36
LAKE TRAVERSE (RESERVATION CONTROL DAM)	Minnesota South Dakota	St. Paul	E-36
LAKE TRAVERSE (WHITE ROCK DAM)	Minnesota South Dakota	St. Paul	E-36
LEECH LAKE DAM	Minnesota	St. Paul	E-37
LOCK AND DAM NO. 1 - MISSISSIPPI RIVER	Minnesota	St. Paul	E-37
LOCK AND DAM NO. 2 - MISSISSIPPI RIVER	Minnesota	St. Paul	E-37
LOCK AND DAM NO. 3 - MISSISSIPPI RIVER	Minnesota Wisconsin	St. Paul	E-37
LOCK AND DAM NO. 4 - MISSISSIPPI RIVER	Minnesota Wisconsin	St. Paul	E-36
LOCK AND DAM NO. 5 - MISSISSIPPI RIVER	Minnesota Wisconsin	St. Paul	E-38
LOCK AND DAM NO. 5A - MISSISSIPPI RIVER	Minnesota Wisconsin	St. Paul	E-38
LOCK AND DAM NO. 6 - MISSISSIPPI RIVER	Minnesota Wisconsin	St. Paul	E-38
LOCK AND DAM NO. 7 - MISSISSIPPI RIVER	Minnesota Wisconsin	St. Paul	E-39
LOCK AND DAM NO. 8 - MISSISSIPPI RIVER	Minnesota Wisconsin	St. Paul	E-39
LOCK AND DAM NO. 9 - MISSISSIPPI RIVER	Wisconsin Iowa	St. Paul	E-39
LOCK AND DAM NO. 10 - MISSISSIPPI RIVER	Iowa Wisconsin	St. Paul	E-39
ORWELL LAKE	Minnesota	St. Paul	E-40
PINE RIVER DAM (CROSS LAKE)	Minnesota	St. Paul	E-40
POKEGAMA DAM	Minnesota	St. Paul	E-40
RED LAKE RIVER	Minnesota	St. Paul	E-40
SANDY LAKE DAM	Minnesota	St. Paul	E-41
ST. ANTHONY FALLS LOWER LOCK AND DAM	Minnesota	St. Paul	E-41
ST. ANTHONY FALLS UPPER LOCK AND DAM	Minnesota	St. Paul	E-41
WINNIBIGOSHISH DAM	Minnesota	St. Paul	E-41

New England Division

<u>PROJECT NAME</u>	<u>STATE</u>	<u>CORPS OFFICE</u>	<u>PAGE</u>
BALL MOUNTAIN LAKE	Vermont	New England	E-43
BARRE FALLS DAM	Massachusetts	New England	E-43
BIRCH HILL DAM	Massachusetts	New England	E-43
BLACK ROCK LAKE	Connecticut	New England	E-43
BLACKWATER DAM	New Hampshire	New England	E-43
BUFFUMVILLE LAKE	Massachusetts	New England	E-44
COLEBROOK RIVER LAKE	Connecticut Massachusetts	New England	E-44
CONANT BROOK DAM	Massachusetts	New England	E-44
EAST BRIMFIELD LAKE	Massachusetts	New England	E-44
EDWARD MACDOWELL DAM	New Hampshire	New England	E-44
EVERETT LAKE	New Hampshire	New England	E-45
FRANKLIN FALLS DAM	New Hampshire	New England	E-45
HANCOCK BROOK LAKE	Connecticut	New England	E-45
HODGES VILLAGE DAM	Massachusetts	New England	E-45
HOP BROOK LAKE	Connecticut	New England	E-45
HOPKINTON LAKE	New Hampshire	New England	E-45
KNIGHTVILLE DAM	Massachusetts	New England	E-46
LITTLEVILLE LAKE	Massachusetts	New England	E-46
MANSFIELD HOLLOW LAKE	Connecticut	New England	E-46
NORTH HARTLAND LAKE	Vermont	New England	E-46
NORTH SPRINGFIELD LAKE	Vermont	New England	E-46
NORTHFIELD BROOK LAKE	Connecticut	New England	E-47
OTTER BROOK LAKE	New Hampshire	New England	E-47

SURRY MOUNTAIN LAKE	New Hampshire	New England	E-47
THOMASTON DAM	Connecticut	New England	E-47
TOWNSHEND LAKE	Vermont	New England	E-47
TULLY LAKE	Massachusetts	New England	E-47
UNION VILLAGE DAM	Vermont	New England	E-48
WEST HILL DAM	Massachusetts	New England	E-48
WEST THOMPSON LAKE	Connecticut	New England	E-48
WESTVILLE LAKE	Massachusetts	New England	E-48

North Pacific Division

<u>PROJECT NAME</u>	<u>STATE</u>	<u>CORPS OFFICE</u>	<u>PAGE</u>
CHENA RIVER LAKES	Alaska	Alaska	E-49
APPLEGATE LAKE	Oregon	Portland	E-49
BIG CLIFF DAM	Oregon	Portland	E-49
BLUE RIVER LAKE	Oregon	Portland	E-49
BONNEVILLE LOCK AND DAM	Oregon Washington	Portland	E-50
COTTAGE GROVE LAKE	Oregon	Portland	E-50
COUGAR LAKE	Oregon	Portland	E-50
DETROIT LAKE	Oregon	Portland	E-51
DEXTER DAM	Oregon	Portland	E-51
DORENA LAKE	Oregon	Portland	E-51
FALL CREEK LAKE	Oregon	Portland	E-51
FERN RIDGE LAKE	Oregon	Portland	E-52
FOSTER DAM	Oregon	Portland	E-52
GREEN PETER LAKE	Oregon	Portland	E-52
HILLS CREEK LAKE	Oregon	Portland	E-53
JOHN DAY LOCK AND DAM - LAKE UMATILLA	Oregon Washington	Portland	E-53
LOOKOUT POINT LAKE	Oregon	Portland	E-53
LOST CREEK LAKE	Oregon	Portland	E-54
THE DALLES LOCK AND DAM - LAKE CELILO	Oregon Washington	Portland	E-54
WILLOW CREEK LAKE	Oregon	Portland	E-54
ALBENI FALLS DAM	Idaho	Seattle	E-54
CHIEF JOSEPH DAM - RUFUS WOODS LAKE	Washington	Seattle	E-55
HOWARD A. HANSON DAM	Washington	Seattle	E-55
LIBBY DAM - LAKE KOOCANUSA	Montana	Seattle	E-55
MUD MOUNTAIN DAM	Washington	Seattle	E-55
WYNOOCHEE LAKE	Washington	Seattle	E-56
DWORSHAK DAM AND RESERVOIR	Idaho	Walla Walla	E-56
ICE HARBOR LOCK AND DAM - LAKE SACAJAWEA	Washington	Walla Walla	E-56
LITTLE GOOSE LOCK AND DAM - LAKE BRYAN	Washington	Walla Walla	E-57
LOWER GRANITE LOCK AND DAM	Washington	Walla Walla	E-57
LOWER MONUMENTAL LOCK AND DAM - LAKE HERBERT G. WEST	Washington	Walla Walla	E-57
LUCKY PEAK LAKE	Idaho	Walla Walla	E-57
MENARY LOCK AND DAM - LAKE WALLULA	Oregon Washington	Walla Walla	E-58
VIRGIL B. BENNINGTON LAKE	Washington	Walla Walla	E-58

Ohio River Division

<u>PROJECT NAME</u>	<u>STATE</u>	<u>CORPS OFFICE</u>	<u>PAGE</u>
ALUM CREEK LAKE	Ohio	Huntington	E-59
ATWOOD LAKE	Ohio	Huntington	E-59
BEACH CITY LAKE	Ohio	Huntington	E-59
BEECH FORK LAKE	West Virginia	Huntington	E-59
BELLEVILLE LOCKS AND DAM	West Virginia Ohio	Huntington	E-60
BLUESTONE LAKE	West Virginia	Huntington	E-60
BOLIVAR DAM	Ohio	Huntington	E-60
BURNSVILLE LAKE	West Virginia	Huntington	E-61
CHARLES MILL LAKE	Ohio	Huntington	E-61
CLENDENING LAKE	Ohio	Huntington	E-61
CPT. ANTHONY MELDAHL LOCKS AND DAM	Kentucky Ohio	Huntington	E-61
DEER CREEK LAKE	Ohio	Huntington	E-61
DELAWARE LAKE	Ohio	Huntington	E-62
DEWEY LAKE	Kentucky	Huntington	E-62
DILLON LAKE	Ohio	Huntington	E-62
DOVER DAM	Ohio	Huntington	E-62
EAST LYNN LAKE	West Virginia	Huntington	E-62
FISHTRAP LAKE	Kentucky	Huntington	E-63
GRAYSON LAKE	Kentucky	Huntington	E-63
GREENUP LOCKS AND DAM	Kentucky Ohio	Huntington	E-63
JOHN W. FLANNAGAN DAM AND RESERVOIR	Virginia	Huntington	E-63
LEESVILLE LAKE	Ohio	Huntington	E-64
LONDON LOCKS AND DAM	West Virginia	Huntington	E-64
MARMET LOCKS AND DAM	West Virginia	Huntington	E-64
MOHAWK DAM	Ohio	Huntington	E-64
MOHICANVILLE DAM	Ohio	Huntington	E-64
NORTH BRANCH KOKOSING RIVER LAKE	Ohio	Huntington	E-65
NORTH FORK OF POUND LAKE	Virginia	Huntington	E-65
PAINT CREEK LAKE	Ohio	Huntington	E-65
PAINTSVILLE LAKE	Kentucky	Huntington	E-65
PIEDMONT LAKE	Ohio	Huntington	E-65
PLEASANT HILL LAKE	Ohio	Huntington	E-66
R.D. BAILEY LAKE	West Virginia	Huntington	E-66
RACINE LOCKS AND DAM	West Virginia Ohio	Huntington	E-66
ROBERT C. BYRD LOCKS AND DAM	West Virginia Ohio	Huntington	E-63
SENECAVILLE LAKE	Ohio	Huntington	E-66
SUMMERSVILLE LAKE	West Virginia	Huntington	E-67
SUTTON LAKE	West Virginia	Huntington	E-67
TAPPAN LAKE	Ohio	Huntington	E-67
TOM JENKINS DAM	Ohio	Huntington	E-67
WILLOW ISLAND LOCKS AND DAM	West Virginia Ohio	Huntington	E-68
WILLS CREEK LAKE	Ohio	Huntington	E-68
WINFIELD LOCKS AND DAM	West Virginia	Huntington	E-68
YATESVILLE LAKE	Kentucky	Huntington	E-68
BARREN RIVER LAKE	Kentucky	Louisville	E-68
BROOKVILLE LAKE	Indiana	Louisville	E-69
BUCKHORN LAKE	Kentucky	Louisville	E-69
CAESAR CREEK LAKE	Ohio	Louisville	E-69

CAGLES MILL LAKE	Indiana	Louisville	E-69
CANNELTON LOCKS AND DAM	Kentucky Indiana	Louisville	E-69
CARR FORK LAKE	Kentucky	Louisville	E-69
CAVE RUN LAKE	Kentucky	Louisville	E-70
CECIL M. HARDEN LAKE	Indiana	Louisville	E-70
CLARENCE J. BROWN DAM AND RESERVOIR	Ohio	Louisville	E-70
GREEN RIVER LAKE	Kentucky	Louisville	E-70
HUNTINGTON LAKE	Indiana	Louisville	E-70
LOCK AND DAM NO. 1 - BARREN RIVER	Kentucky	Louisville	E-71
LOCK AND DAM NO. 1 - GREEN RIVER	Kentucky	Louisville	E-71
LOCK AND DAM NO. 2 - GREEN RIVER	Kentucky	Louisville	E-71
LOCK AND DAM NO. 3 - GREEN RIVER	Kentucky	Louisville	E-71
LOCK AND DAM NO. 4 - GREEN RIVER	Kentucky	Louisville	E-71
LOCK AND DAM NO. 5 - GREEN RIVER	Kentucky	Louisville	E-72
LOCK AND DAM NO. 6 - GREEN RIVER	Kentucky	Louisville	E-72
LOCK AND DAM NO. 1 - KENTUCKY RIVER	Kentucky	Louisville	E-72
LOCK AND DAM NO. 2 - KENTUCKY RIVER	Kentucky	Louisville	E-72
LOCK AND DAM NO. 3 - KENTUCKY RIVER	Kentucky	Louisville	E-72
LOCK AND DAM NO. 4 - KENTUCKY RIVER	Kentucky	Louisville	E-73
LOCK AND DAM NO. 5 - KENTUCKY RIVER	Kentucky	Louisville	E-73
LOCK AND DAM NO. 6 - KENTUCKY RIVER	Kentucky	Louisville	E-73
LOCK AND DAM NO. 7 - KENTUCKY RIVER	Kentucky	Louisville	E-73
LOCK AND DAM NO. 8 - KENTUCKY RIVER	Kentucky	Louisville	E-74
LOCK AND DAM NO. 9 - KENTUCKY RIVER	Kentucky	Louisville	E-74
LOCK AND DAM NO. 10 - KENTUCKY RIVER	Kentucky	Louisville	E-74
LOCK AND DAM NO. 11 - KENTUCKY RIVER	Kentucky	Louisville	E-74
LOCK AND DAM NO. 12 - KENTUCKY RIVER	Kentucky	Louisville	E-74
LOCK AND DAM NO. 13 - KENTUCKY RIVER	Kentucky	Louisville	E-75
LOCK AND DAM NO. 14 - KENTUCKY RIVER	Kentucky	Louisville	E-75
LOCKS AND DAM NO. 52 - OHIO RIVER	Kentucky Illinois	Louisville	E-75
LOCKS AND DAM NO. 53 - OHIO RIVER	Kentucky Illinois	Louisville	E-75
MARKLAND LOCKS AND DAMS	Kentucky Indiana	Louisville	E-75
MCALPINE LOCKS AND DAM	Kentucky Indiana	Louisville	E-75
MISSISSINAWA LAKE	Indiana	Louisville	E-76
MONROE LAKE	Indiana	Louisville	E-76
NEWBURGH LOCKS AND DAM	Kentucky Indiana	Louisville	E-76
NOLIN LAKE	Kentucky	Louisville	E-76
PATOKA LAKE	Indiana	Louisville	E-76
ROUGH RIVER LAKE	Kentucky	Louisville	E-76
SALAMONIE LAKE	Indiana	Louisville	E-77
SMITHLAND LOCKS AND DAM	Kentucky Illinois	Louisville	E-77
TAYLORSVILLE LAKE	Kentucky	Louisville	E-77
UNIONTOWN LOCKS AND DAM	Kentucky Indiana	Louisville	E-77
WEST FORK OF MILL CREEK LAKE	Ohio	Louisville	E-77
WILLIAM H. HARSHA LAKE	Ohio	Louisville	E-77
BARKLEY DAM AND LAKE BARKLEY	Kentucky	Nashville	E-78
CENTER HILL LAKE	Tennessee	Nashville	E-78
CHEATHAM LOCK AND DAM	Tennessee	Nashville	E-78
ORDELL HULL LOCK AND DAM	Tennessee	Nashville	E-79
DALE HOLLOW LAKE	Tennessee	Nashville	E-79
J. PERCY PRIEST DAM AND RESERVOIR	Tennessee	Nashville	E-79
LAUREL RIVER LAKE	Kentucky	Nashville	E-80
MARTINS FORK LAKE	Kentucky	Nashville	E-80
OLD HICKORY LOCK AND DAM	Tennessee	Nashville	E-80

WOLF CREEK DAM - LAKE CUMBERLAND	Kentucky	Nashville	E-81
BERLIN LAKE	Ohio	Pittsburgh	E-81
CONEMAUGH RIVER LAKE	Pennsylvania	Pittsburgh	E-81
CROOKED CREEK LAKE	Pennsylvania	Pittsburgh	E-82
DASHIELDS LOCKS AND DAM	Pennsylvania	Pittsburgh	E-82
EAST BRANCH CLARION RIVER LAKE	Pennsylvania	Pittsburgh	E-82
EMSWORTH LOCKS AND DAMS	Pennsylvania	Pittsburgh	E-82
GRAYS LANDING LOCK AND DAM	Pennsylvania	Pittsburgh	E-82
HANNIBAL LOCKS AND DAM	West Virginia Ohio	Pittsburgh	E-82
HILDEBRAND LOCK AND DAM	West Virginia	Pittsburgh	E-83
KINZUA DAM AND ALLEGHENY RESERVOIR	Pennsylvania	Pittsburgh	E-83
LOCK AND DAM NO. 2 - ALLEGHENY RIVER	Pennsylvania	Pittsburgh	E-83
LOCK AND DAM NO. 3 - ALLEGHENY RIVER	Pennsylvania	Pittsburgh	E-83
LOCK AND DAM NO. 4 - ALLEGHENY RIVER	Pennsylvania	Pittsburgh	E-83
LOCK AND DAM NO. 5 - ALLEGHENY RIVER	Pennsylvania	Pittsburgh	E-83
LOCK AND DAM NO. 6 - ALLEGHENY RIVER	Pennsylvania	Pittsburgh	E-83
LOCK AND DAM NO. 7 - ALLEGHENY RIVER	Pennsylvania	Pittsburgh	E-84
LOCK AND DAM NO. 8 - ALLEGHENY RIVER	Pennsylvania	Pittsburgh	E-84
LOCK AND DAM NO. 9 - ALLEGHENY RIVER	Pennsylvania	Pittsburgh	E-84
LOCKS AND DAM NO. 2 - MONONGAHELA RIVER	Pennsylvania	Pittsburgh	E-84
LOCKS AND DAM NO. 3 - MONONGAHELA RIVER	Pennsylvania	Pittsburgh	E-84
LOCKS AND DAM NO. 4 - MONONGAHELA RIVER	Pennsylvania	Pittsburgh	E-84
LOCK AND DAM NO. 7 - MONONGAHELA RIVER	Pennsylvania	Pittsburgh	E-85
LOYALHANNA LAKE	Pennsylvania	Pittsburgh	E-85
MAHONING CREEK LAKE	Pennsylvania	Pittsburgh	E-85
MAXWELL LOCKS AND DAM	Pennsylvania	Pittsburgh	E-85
MICHAEL J. KIRWAN DAM AND RESERVOIR	Ohio	Pittsburgh	E-85
MONTGOMERY LOCKS AND DAM	Pennsylvania	Pittsburgh	E-85
MORGANTOWN LOCK AND DAM	West Virginia	Pittsburgh	E-86
MOSQUITO CREEK LAKE	Ohio	Pittsburgh	E-88
NEW CUMBERLAND LOCKS AND DAM	West Virginia Ohio	Pittsburgh	E-86
OPEKISKA LOCK AND DAM	West Virginia	Pittsburgh	E-88
PIKE ISLAND LOCKS AND DAM	West Virginia Ohio	Pittsburgh	E-86
POINT MARION LOCK AND DAM	Pennsylvania	Pittsburgh	E-87
SHENANGO RIVER LAKE	Pennsylvania	Pittsburgh	E-87
STONEWALL JACKSON LAKE	West Virginia	Pittsburgh	E-87
TIONESTA LAKE	Pennsylvania	Pittsburgh	E-87
TYGART RIVER LAKE	West Virginia	Pittsburgh	E-87
UNION CITY DAM	Pennsylvania	Pittsburgh	E-88
WOODCOCK CREEK LAKE	Pennsylvania	Pittsburgh	E-88
YOUGHIOGHENY RIVER LAKE	Pennsylvania	Pittsburgh	E-88

South Atlantic Division

<u>PROJECT NAME</u>	<u>STATE</u>	<u>CORPS OFFICE</u>	<u>PAGE</u>
CENTRAL AND SOUTHERN FLORIDA (C&SF) PROJECT	Florida	Jacksonville	E-89
CERRILLOS DAM AND RESERVOIR	Puerto Rico	Jacksonville	E-90
FOUR RIVER BASINS (FRB) PROJECT	Florida	Jacksonville	E-90
INGLIS LOCK AND DAM (CROSS FLORIDA BARGE CANAL PROJECT)	Florida	Jacksonville	E-91
OKEECHOBEE WATERWAY PROJECT	Florida	Jacksonville	E-91
OKLAWAHA RIVER PROJECT	Florida	Jacksonville	E-92

PORTUGUES DAM AND RESERVOIR	Puerto Rico	Jacksonville	E-92
RODMAN LOCK AND DAM (CROSS FLORIDA BARGE CANAL PROJECT)	Florida	Jacksonville	E-92
ABERDEEN LOCK AND DAM	Mississippi	Mobile	E-93
ALLATOONA LAKE	Georgia	Mobile	E-93
ARMISTEAD I. SELDEN LOCK AND DAM - WARRIOR LAKE	Alabama	Mobile	E-93
BAY SPRINGS LOCK AND DAM	Mississippi	Mobile	E-94
BUFORD DAM - LAKE SIDNEY LANIER	Georgia	Mobile	E-94
CARTERS DAM AND LAKE	Georgia	Mobile	E-94
CLAIBORNE LOCK AND DAM	Alabama	Mobile	E-95
COFFEEVILLE LOCK AND DAM	Alabama	Mobile	E-95
COLUMBUS LOCK AND DAM	Mississippi	Mobile	E-95
DEMOPOLIS LOCK AND DAM	Alabama	Mobile	E-95
GAINESVILLE LOCK AND DAM	Alabama	Mobile	E-96
GEORGE W. ANDREWS LOCK AND DAM	Georgia Alabama	Mobile	E-96
HOLT LOCK AND DAM	Alabama	Mobile	E-96
JIM WOODRUFF LOCK AND DAM - LAKE SEMINOLE	Florida	Mobile	E-96
JOHN HOLLIS BANKHEAD LOCK AND DAM	Alabama	Mobile	E-97
LOCK A - TENNESSEE-TOMBIGBEE WATERWAY	Mississippi	Mobile	E-97
LOCK B - TENNESSEE-TOMBIGBEE WATERWAY	Mississippi	Mobile	E-97
LOCK C - TENNESSEE-TOMBIGBEE WATERWAY	Mississippi	Mobile	E-98
LOCK D - TENNESSEE-TOMBIGBEE WATERWAY	Mississippi	Mobile	E-98
LOCK E - TENNESSEE-TOMBIGBEE WATERWAY	Mississippi	Mobile	E-98
MILLERS FERRY LOCK AND DAM - WILLIAM "BILL" DANNELLY LAKE	Alabama	Mobile	E-98
OKATIBBEE LAKE	Mississippi	Mobile	E-99
ROBERT F. HENRY LOCK AND DAM - R.E. "BOB" WOODRUFF RESERVOIR	Alabama	Mobile	E-99
TOM BEVILL LOCK AND DAM	Alabama	Mobile	E-99
WALTER F. GEORGE LOCK AND DAM	Georgia Alabama	Mobile	E-100
WEST POINT DAM AND LAKE	Georgia	Mobile	E-100
WILLIAM BACON OLIVER LOCK AND DAM	Alabama	Mobile	E-100
HARTWELL DAM AND LAKE	South Carolina Georgia	Savannah	E-100
J. STROM THURMOND DAM AND LAKE	Georgia South Carolina	Savannah	E-101
NEW SAVANNAH BLUFF LOCK AND DAM	Georgia South Carolina	Savannah	E-101
RICHARD B. RUSSELL DAM AND LAKE	South Carolina Georgia	Savannah	E-101
B. EVERETT JORDAN DAM AND LAKE	North Carolina	Wilmington	E-102
FALLS LAKE	North Carolina	Wilmington	E-102
JOHN H. KERR DAM AND RESERVOIR	Virginia North Carolina	Wilmington	E-102
PHILPOTT LAKE	Virginia	Wilmington	E-102
W. KERR SCOTT DAM AND RESERVOIR	North Carolina	Wilmington	E-103

South Pacific Division

<u>PROJECT NAME</u>	<u>STATE</u>	<u>CORPS OFFICE</u>	<u>PAGE</u>
BEAR DAM (MERCED COUNTY STREAM GROUP)	California	Sacramento	E-104
BLACK BUTTE LAKE	California	Sacramento	E-104
BUCHANAN DAM - H.V. EASTMAN LAKE	California	Sacramento	E-104
BURNS DAM (MERCED COUNTY STREAM GROUP)	California	Sacramento	E-104
COYOTE VALLEY DAM - LAKE MENDOCINO	California	Sacramento	E-104
DRY CREEK (WARM SPRINGS) LAKE AND CHANNEL	California	Sacramento	E-105
FARMINGTON DAM	California	Sacramento	E-105

HIDDEN DAM - HENSLEY LAKE	California	Sacramento	E-105
ISABELLA LAKE	California	Sacramento	E-105
MARIPOSA DAM (MERCED COUNTY STREAM GROUP)	California	Sacramento	E-105
MARTIS CREEK LAKE	California	Sacramento	E-105
NEW HOGAN LAKE	California	Sacramento	E-106
OWENS DAM (MERCED COUNTY STREAM GROUP)	California	Sacramento	E-106
PINE FLAT LAKE AND KINGS RIVER	California	Sacramento	E-106
SUCCESS LAKE	California	Sacramento	E-106
TERMINUS DAM - LAKE KAWEAH	California	Sacramento	E-106
ALAMO LAKE	Arizona	Los Angeles	E-106
BREA DAM (SANTA ANA RIVER BASIN)	California	Los Angeles	E-107
CARBON CANYON DAM (SANTA ANA RIVER BASIN)	California	Los Angeles	E-107
FULLERTON DAM (SANTA ANA RIVER BASIN)	California	Los Angeles	E-107
HANSEN DAM (LOS ANGELES COUNTY DRAINAGE AREA)	California	Los Angeles	E-107
LOPEZ DAM (LOS ANGELES COUNTY DRAINAGE AREA)	California	Los Angeles	E-108
MATHEWS CANYON DAM	Nevada	Los Angeles	E-108
MOJAVE RIVER RESERVOIR	California	Los Angeles	E-108
PAINTED ROCK DAM	Arizona	Los Angeles	E-108
PINE CANYON DAM	Nevada	Los Angeles	E-109
PRADO DAM (SANTA ANA RIVER BASIN)	California	Los Angeles	E-109
SAN ANTONIO DAM (SANTA ANA RIVER BASIN)	California	Los Angeles	E-109
SANTA FE DAM (LOS ANGELES COUNTY DRAINAGE AREA)	California	Los Angeles	E-109
SEPULVEDA DAM (LOS ANGELES COUNTY DRAINAGE AREA)	California	Los Angeles	E-110
WHITLOW RANCH DAM	Arizona	Los Angeles	E-110
WHITTIER NARROWS DAM (LOS ANGELES COUNTY DRAINAGE AREA)	California	Los Angeles	E-110

Southwestern Division

<u>PROJECT NAME</u>	<u>STATE</u>	<u>CORPS OFFICE</u>	<u>PAGE</u>
ABIQUIU DAM	New Mexico	Albuquerque	E-111
COCHITI LAKE	New Mexico	Albuquerque	E-111
CONCHAS LAKE	New Mexico	Albuquerque	E-111
GALISTEO DAM	New Mexico	Albuquerque	E-111
JEMEZ CANYON DAM	New Mexico	Albuquerque	E-112
JOHN MARTIN RESERVOIR	Colorado	Albuquerque	E-112
SANTA ROSA DAM AND LAKE	New Mexico	Albuquerque	E-112
TRINIDAD LAKE	Colorado	Albuquerque	E-112
TWO RIVERS DAM	New Mexico	Albuquerque	E-112
AQUILLA LAKE	Texas	Fort Worth	E-113
BARDWELL LAKE	Texas	Fort Worth	E-113
BELTON LAKE	Texas	Fort Worth	E-113
BENBROOK LAKE	Texas	Fort Worth	E-114
CANYON LAKE	Texas	Fort Worth	E-114
COOPER LAKE	Texas	Fort Worth	E-114
FERRELL'S BRIDGE DAM - LAKE O' THE PINES	Texas	Fort Worth	E-115
GRANGER DAM AND LAKE	Texas	Fort Worth	E-115
GRAPEVINE LAKE	Texas	Fort Worth	E-115
HORDS CREEK LAKE	Texas	Fort Worth	E-115
JOE POOL LAKE	Texas	Fort Worth	E-116
LAVON LAKE	Texas	Fort Worth	E-116
LEWISVILLE LAKE	Texas	Fort Worth	E-116

NAVARRO MILLS LAKE	Texas	Fort Worth	E-117
NORTH SAN GABRIEL DAM - GEORGETOWN LAKE	Texas	Fort Worth	E-117
O. C. FISHER DAM AND LAKE	Texas	Fort Worth	E-117
PROCTOR LAKE	Texas	Fort Worth	E-117
RAY ROBERTS LAKE	Texas	Fort Worth	E-118
SAM RAYBURN DAM AND RESERVOIR	Texas	Fort Worth	E-118
SOMERVILLE LAKE	Texas	Fort Worth	E-118
STILLHOUSE HOLLOW LAKE	Texas	Fort Worth	E-118
TOWN BLUFF DAM - B.A. STEINHAGEN LAKE	Texas	Fort Worth	E-119
WACO LAKE	Texas	Fort Worth	E-119
WHITNEY LAKE	Texas	Fort Worth	E-119
WRIGHT PATMAN DAM AND LAKE	Texas	Fort Worth	E-120
ADDICKS DAM	Texas	Galveston	E-120
BARKER DAM	Texas	Galveston	E-120
ARTHUR V. ORMAND LOCK AND DAM AND WINTHROP ROCKERFELLER LAKE	Arkansas	Little Rock	E-120
BEAVER LAKE	Arkansas	Little Rock	E-121
BLUE MOUNTAIN LAKE	Arkansas	Little Rock	E-121
BULL SHOALS LAKE	Arkansas	Little Rock	E-121
CLEARWATER LAKE	Missouri	Little Rock	E-121
DARDANELLE LOCK AND DAM	Arkansas	Little Rock	E-122
DAVID D. TERRY LOCK AND DAM	Arkansas	Little Rock	E-122
DEQUEEN LAKE	Arkansas	Little Rock	E-123
DIERKS LAKE	Arkansas	Little Rock	E-123
EMMITT SANDERS LOCK AND DAM	Arkansas	Little Rock	E-123
GILLHAM LAKE	Arkansas	Little Rock	E-124
GREERS FERRY LAKE	Arkansas	Little Rock	E-124
JAMES W. TRIMBLE LOCK AND DAM - JOHN PAUL HAMMERSCHMIDT LAKE	Arkansas	Little Rock	E-124
JOE HARDIN LOCK AND DAM	Arkansas	Little Rock	E-125
LOCK AND DAM NO. 5 - ARKANSAS RIVER	Arkansas	Little Rock	E-125
MILLWOOD LAKE	Arkansas	Little Rock	E-125
MURRAY LOCK AND DAM	Arkansas	Little Rock	E-126
NIMROD LAKE	Arkansas	Little Rock	E-126
NORFORK LAKE	Arkansas	Little Rock	E-126
NORRELL LOCK AND DAM	Arkansas	Little Rock	E-127
OZARK JETTA-TAYLOR LOCK AND DAM	Arkansas	Little Rock	E-127
TABLE ROCK LAKE	Missouri	Little Rock	E-128
TOAD SUCK FERRY LOCK AND DAM	Arkansas	Little Rock	E-128
WILBUR D. MILLS LOCK AND DAM	Arkansas	Little Rock	E-128
ARCADIA LAKE	Oklahoma	Tulsa	E-129
BIRCH LAKE	Oklahoma	Tulsa	E-129
BROKEN BOW LAKE	Oklahoma	Tulsa	E-129
CANTON LAKE	Oklahoma	Tulsa	E-129
CHOUTEAU LOCK AND DAM	Oklahoma	Tulsa	E-130
COPAN LAKE	Oklahoma	Tulsa	E-130
COUNCIL GROVE LAKE	Kansas	Tulsa	E-130
DENISON DAM - LAKE TEXOMA	Texas Oklahoma	Tulsa	E-130
EL DORADO LAKE	Kansas	Tulsa	E-131
ELK CITY LAKE	Kansas	Tulsa	E-131
EUFAULA LAKE	Oklahoma	Tulsa	E-131
FALL RIVER LAKE	Kansas	Tulsa	E-132
FORT GIBSON LAKE	Oklahoma	Tulsa	E-132
FORT SUPPLY LAKE	Oklahoma	Tulsa	E-132

GREAT SALT PLAINS LAKE	Oklahoma	Tulsa	E-132
HEYBURN LAKE	Oklahoma	Tulsa	E-133
HUGO LAKE	Oklahoma	Tulsa	E-133
HULAH LAKE	Oklahoma	Tulsa	E-133
JOHN REDMOND DAM AND RESERVOIR	Kansas	Tulsa	E-133
KAW LAKE	Oklahoma	Tulsa	E-134
KEYSTONE LAKE	Oklahoma	Tulsa	E-134
MARION LAKE	Kansas	Tulsa	E-134
NEWT GRAHAM LOCK AND DAM	Oklahoma	Tulsa	E-135
OOLOGAH LAKE	Oklahoma	Tulsa	E-135
OPTIMA LAKE	Oklahoma	Tulsa	E-135
PAT MAYSE LAKE	Texas	Tulsa	E-135
PEARSON-SKUBITZ BIG HILL LAKE	Kansas	Tulsa	E-136
PINE CREEK LAKE	Oklahoma	Tulsa	E-136
ROBERT S. KERR LOCK AND DAM AND RESERVOIR	Oklahoma	Tulsa	E-136
SARDIS LAKE	Oklahoma	Tulsa	E-136
SKIATOOK LAKE	Oklahoma	Tulsa	E-137
TENKILLER FERRY LAKE	Oklahoma	Tulsa	E-137
TORONTO LAKE	Kansas	Tulsa	E-137
W.D. MAYO LOCK AND DAM	Oklahoma	Tulsa	E-137
WAURIKA LAKE	Oklahoma	Tulsa	E-138
WEBBERS FALLS LOCK AND DAM AND RESERVOIR	Oklahoma	Tulsa	E-138
WISTER LAKE	Oklahoma	Tulsa	E-138

APPENDIX E

**AUTHORIZED AND OPERATING PURPOSES
OF CORPS OF ENGINEERS RESERVOIRS**

APPENDIX E

AUTHORIZED AND OPERATING PURPOSES
OF CORPS OF ENGINEERS RESERVOIRSLOWER MISSISSIPPI VALLEY DIVISION

ARKABUTLA LAKE

Coldwater River. Tate and DeSoto Counties Mississippi.

Lower Mississippi Valley Division
Vicksburg District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Water Quality	Water Quality	PL 92-500
Flood Control	Flood Control	PL 74-678
Recreation	Recreation	PL 78-534
Fish/Wildlife	Fish/Wildlife	PL 79-526

1. Arkabutla, Sardis, Enid, and Grenada Lakes are part of the Yazoo Headwater Project, a comprehensive plan for flood control on the Yazoo River and its tributaries above the head of the Mississippi River backwater area. The primary authorized purpose of these lakes is flood control and the secondary authorized purposes are fish and wildlife, recreation, and water quality. The current water control plan for the Yazoo Lakes was developed to maximize the flood control capabilities and to enhance the recreation capabilities.

BLAKELY MOUNTAIN DAM - LAKE OUACHITA

Ouachita River. Garland and Montgomery Counties Arkansas.

Lower Mississippi Valley Division
Vicksburg District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Hydroelectric Power	Hydroelectric Power	PL 78-534
Flood Control	Flood Control	PL 78-534
Recreation	Recreation	PL 78-534

BODCAU LAKE

Bayou Bodcau. Bossier Parish Louisiana.

Lower Mississippi Valley Division
Vicksburg District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Flood Control	Flood Control	PL 89-298

CADD0 LAKE

Cypress Bodcau. Caddo Parish Louisiana.

Lower Mississippi Valley Division
Vicksburg District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
	Water Supply	PL 89-298
	Recreation	PL 89-298

(continued)

CADDO LAKE (continued)

1. Caddo Lake was first built as a feature of the Federal Navigation Project, "Cypress Bayou and the Waterway Between Jefferson, Texas and Shreveport, Louisiana". The Caddo Lake Replacement Dam was authorized by the Flood Control Act of 1965 to preserve the socio-economic base that had developed over the years as a result of Caddo Lake. Navigation was no longer warranted as a project purpose. The replacement dam was completed in 1971 and was under the jurisdiction of the Caddo Levee District for about 5 years. In October 1978 Public Law 94-587 shifted operation and maintenance responsibilities to the Federal Government. Since the Government acquired rights to the lands under or around Caddo Lake, the replacement dam was designed to not increase lake elevations above the experienced conditions.

2. Water supply and recreation are local responsibilities. Water is not controlled for these purposes.

COLUMBIA LOCK AND DAM

Ouachita River. Caldwell Parish Louisiana.

Lower Mississippi Valley Division
Vicksburg District

Operating Purposes

Recreation
Navigation

Authorized Purposes

Recreation
Navigation

Authorizing Laws

PL 91-811
PL 81-518, PL 86-645

1. PL 81-518 and PL 86-645 provided for modification of the existing 6-1/2 ft navigation project on the Ouachita-Black Rivers below Camden, Ark., to provide a channel 9 ft deep and 100 ft wide from the mouth of the Black River to Camden, Ark., replacing the existing locks and dams Nos. 2, 3, 4, 5, 6, and 8.

2. PL 91-811 authorized acquisition of lands for establishment of national wildlife refuges at Felsenthal Lock and Dam in Arkansas and along Bayou D'Arbonne in the Columbia Lock and Dam Pool in Louisiana.

DEGRAY LAKE

Caddo River. Clark and Hot Springs Counties Arkansas.

Lower Mississippi Valley Division
Vicksburg District

Operating Purposes

Hydroelectric Power
Navigation
Recreation
Flood Control
Water Supply

Authorized Purposes

Hydroelectric Power
Navigation
Recreation
Flood Control
Water Supply

Authorizing Laws

PL 81-516
PL 81-515
PL 81-518
PL 81-516
PL 85-500

ENID LAKE

Yocona River. Yalobusha, Panola, and Lafayette Counties Mississippi.

Lower Mississippi Valley Division
Vicksburg District

Operating Purposes

Water Quality
Recreation
Flood Control
Fish/Wildlife

Authorized Purposes

Water Quality
Recreation
Flood Control
Fish/Wildlife

Authorizing Laws

PL 92-500
PL 78-534
PL 74-878
PL 79-526

(continued)

1. Arkabutla, Sardis, Enid, and Grenada Lakes are part of the Yazoo Headwater Project, a comprehensive plan for flood control on the Yazoo River and its tributaries above the head of the Mississippi River backwater area. The primary authorized purpose of these lakes is flood control and the secondary authorized purposes are fish and wildlife, recreation and water quality. The current water control plan for the Yazoo Lakes was developed to maximize the flood control capabilities and to enhance the recreation capabilities.

FELSENTHAL LOCK AND DAM

Ouachita River. Union County Arkansas.

Lower Mississippi Valley Division
Vicksburg District

Operating Purposes

Recreation
Navigation

Authorized Purposes

Recreation
Navigation

Authorizing Laws

PL 91-611
PL 81-516, PL 86-645

1. PL 81-516 and PL 86-645 provided for modification of the existing 6-1/2 ft navigation project on the Ouachita-Black Rivers below Camden, Ark., to provide a channel 9 ft deep and 100 ft wide from the mouth of the Black River to Camden, Ark., replacing the existing locks and dams Nos. 2, 3, 4, 5, 6, and 8.

2. PL 91-611 authorized acquisition of lands for establishment of national wildlife refuges at Felsenthal Lock and Dam in Arkansas and along Bayou D'Arbonne in the Columbia Lock and Dam Pool in Louisiana.

GRENADA LAKE

Yalobusha and Skuna Rivers. Grenada Calhoun, and Yalobusha Counties Mississippi.

Lower Mississippi Valley Division
Vicksburg District

Operating Purposes

Water Quality
Recreation
Flood Control
Fish/Wildlife

Authorized Purposes

Water Quality
Recreation
Flood Control
Fish/Wildlife

Authorizing Laws

PL 92-500
PL 78-534
PL 74-878
PL 79-526

1. Arkabutla, Sardis, Enid, and Grenada Lakes are part of the Yazoo Headwater Project, a comprehensive plan for flood control on the Yazoo River and its tributaries above the head of the Mississippi River backwater area. The primary authorized purpose of these lakes is flood control and the secondary authorized purposes are fish and wildlife, recreation, and water quality. The current water control plan for the Yazoo Lakes was developed to maximize the flood control capabilities and to enhance the recreational capabilities.

H.K. THATCHER LOCK AND DAM

Ouachita River. Union County Arkansas.

Lower Mississippi Valley Division
Vicksburg District

Operating Purposes

Navigation

Authorized Purposes

Navigation
(continued)

Authorizing Laws

PL 81-516, PL 86-645

1. PL 81-516 and PL 86-645 provided for modification of the existing 6-1/2 ft navigation project on the Ouachita-Black Rivers below Camden, Ark., to provide a channel 9 ft deep and 100 ft wide from the mouth of the Black River to Camden, Ark., replacing the existing locks and dams Nos. 2, 3, 4, 5, 6, and 8.

JOHN H. OVERTON LOCK AND DAM
Red River. Rapides Parish Louisiana.

Lower Mississippi Valley Division
Vicksburg District

Operating Purposes

Navigation

Authorized Purposes

Navigation

Authorizing Laws

PL 90-483

1. PL 90-483 authorized the construction of the "Red River Waterway, Louisiana, Texas, Arkansas, and Oklahoma Project," in accordance with the recommendations of the Chief of Engineers as contained in House Document No. 304, 90th Congress, 2nd Session.

JONESVILLE LOCK AND DAM
Black River. Catahoula and Concordia Parishes Louisiana.

Lower Mississippi Valley Division
Vicksburg District

Operating Purposes

Navigation

Authorized Purposes

Navigation

Authorizing Laws

PL 81-516, PL 86-645

1. PL 81-516 and PL 86-645 provided for modification of the existing 6-1/2 ft navigation project on the Ouachita-Black Rivers below Camden, Ark., to provide a channel 9 ft deep and 100 ft wide from the mouth of the Black River to Camden, Ark., replacing the existing locks and dams Nos. 2, 3, 4, 5, 6, and 8.

LOCK AND DAM NO. 1 - RED RIVER WATERWAY
Red River. Avoyelles and Catahoula Parishes Louisiana.

Lower Mississippi Valley Division
Vicksburg District

Operating Purposes

Navigation

Authorized Purposes

Navigation

Authorizing Laws

PL 90-463

1. PL 90-463 authorized the construction of the "Red River Waterway, Louisiana, Texas, Arkansas, and Oklahoma Project," in accordance with the recommendations of the Chief of Engineers as contained in House Document No. 304, 90th Congress, 2nd Session.

NARROWS DAM - LAKE GREESON
Little Missouri River. Pike County Arkansas.

Lower Mississippi Valley Division
Vicksburg District

Operating Purposes

Flood Control

Recreation

Hydroelectric Power

Authorized Purposes

Flood Control

Recreation

Hydroelectric Power

Authorizing Laws

PL 77-226

PL 76-534

PL 78-534, PL 77-228

Little Tallahatchie River. Panola, Lafayette, and Marshall
Counties Mississippi.

Lower Mississippi Valley Division
Vicksburg District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Water Quality	Water Quality	PL 92-500
Flood Control	Flood Control	PL 74-878
Recreation	Recreation	PL 78-534
Fish/Wildlife	Fish/Wildlife	PL 79-528

1. Arkabutla, Sardis, Enid, and Grenada Lakes are part of the Yazoo Headwater Project, a comprehensive plan for flood control on the Yazoo River and its tributaries above the head of the Mississippi River backwater area. The primary authorized purpose of these lakes is flood control and the secondary authorized purposes are fish and wildlife, recreation, and water quality. The current water control plan for the Yazoo Lakes was developed to maximize the flood control capabilities and to enhance the recreation capabilities.

WALLACE LAKE
Cypress Bayou. Caddo Parish Louisiana.

Lower Mississippi Valley Division
Vicksburg District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Flood Control	Flood Control	PL 74-738

CARLYLE LAKE
Kaskaskia River. Clinton County Illinois.

Lower Mississippi Valley Division
St. Louis District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Water Supply	Water Supply	PL 85-500
Recreation	Recreation	PL 78-534, PL 85-500
Navigation	Navigation	PL 85-500
Fish/Wildlife	Fish/Wildlife	PL 85-500
Flood Control	Flood Control	PL 75-781, PL 85-500

CLARENCE CANNON DAM - MARK TWAIN LAKE
Salt River. Ralls County Missouri.

Lower Mississippi Valley Division
St. Louis District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Fish/Wildlife	Fish/Wildlife	PL 87-874
Hydroelectric Power	Hydroelectric Power	PL 87-874
Flood Control	Flood Control	PL 75-781, PL 87-874
Recreation	Recreation	PL 87-874
Navigation	Navigation	PL 87-874
Water Supply	Water Supply	PL 87-874
Water Quality	Water Quality	PL 87-874

Operating Purposes
Navigation

Authorized Purposes
Navigation

Authorizing Laws
PL 87-874

LAKE SHELBYVILLE
Kaskaskia River. Shelby County Illinois.

Lower Mississippi Valley Division
St. Louis District

Operating Purposes
Navigation
Recreation
Fish/Wildlife
Water Supply
Flood Control

Authorized Purposes
Navigation
Recreation
Fish/Wildlife
Water Supply
Flood Control

Authorizing Laws
PL 85-500
PL 85-500, PL 78-534
PL 85-500
PL 85-500
PL 85-500

LOCK AND DAM NO. 24 - MISSISSIPPI RIVER
Mississippi River. Pike County Missouri.

Lower Mississippi Valley Division
St. Louis District

Operating Purposes
Navigation

Authorized Purposes
Navigation

Authorizing Laws
PL 71-520, PL 74-409

LOCK AND DAM NO. 25 - MISSISSIPPI RIVER
Mississippi River. Lincoln County Missouri.

Lower Mississippi Valley Division
St. Louis District

Operating Purposes
Navigation

Authorized Purposes
Navigation

Authorizing Laws
PL 71-520, PL 74-409

LOCKS NO. 27 - MISSISSIPPI RIVER
Mississippi River. Madison County Illinois.

Lower Mississippi Valley Division
St. Louis District

Operating Purposes
Navigation

Authorized Purposes
Navigation

Authorizing Laws
PL 71-520, PL 74-409, PL 79-14

1. The gates are operated by the Corps of Engineers but not the dam.

MELVIN PRICE LOCKS AND DAM
Mississippi River. Madison County Illinois.

Lower Mississippi Valley Division
St. Louis District

Operating Purposes
Navigation

Authorized Purposes
Navigation

Authorizing Laws
PL 95-502, PL 99-88

Big Muddy River. Franklin County Illinois.

Lower Mississippi Valley Division
St. Louis DistrictOperating PurposesWater Quality
Recreation
Fish/Wildlife
Water Supply
Flood ControlAuthorized PurposesWater Quality
Recreation
Fish/Wildlife
Water Supply
Flood ControlAuthorizing LawsPL 87-874
PL 78-534, PL 87-874
PL 87-874
PL 87-874
PL 87-874

WAPPAPELLO LAKE

St. Francis River. Wayne County Missouri.

Lower Mississippi Valley Division
St. Louis DistrictOperating PurposesFlood Control
RecreationAuthorized PurposesFlood Control
RecreationAuthorizing LawsPL 70-391, PL 74-738
PL 78-534

BLUE SPRINGS LAKE

Little Blue River. Jackson County Missouri.

Missouri River Division

Kansas City District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Fish/Wildlife	Fish/Wildlife	PL 90-483
Recreation	Recreation	PL 90-483
Flood Control	Flood Control	PL 90-483

1. Blue Springs Lake is part of the Little Blue River Project of Blue Springs Lake, Longview Lake, and channel improvements. The project was authorized for flood control, recreation, fish and wildlife, and water quality control. Only Longview Lake was designed for water quality purposes.

CLINTON LAKE

Wakarusa River. Douglas County Kansas.

Missouri River Division

Kansas City District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Fish/Wildlife	Fish/Wildlife	PL 87-874
Recreation	Recreation	PL 87-874
Water Quality	Water Quality	PL 92-500
Water Supply	Water Supply	PL 87-874, PL 85-500
Flood Control	Flood Control	PL 87-874

1. Senate Document 87-122 discusses the specific purposes of Clinton Lake as flood control, water supply, fish and wildlife recreation, and other recreation. However, the discussion of water supply does mention adequate minimum streamflow.

2. In 1985, the Bureau of Sport Fisheries and Wildlife (BSF&W) requested that low flows (21 c.f.s. from April to September and 7 c.f.s. from October to March) be provided for fisheries. In response to that request, 21,200 acre-feet of storage was allocated to supplement low flow releases. In August 1969, the State of Kansas recommended the inclusion of 110,400 acre-feet for water supply and water quality in Clinton Lake. Kansas's request was made pursuant to the Water Supply Act of 1958, P.L. 85-500. The BSF&W request for 21,200 acre-feet for water quality reduced the water supply storage to 89,200 acre-feet.

HARLAN COUNTY LAKE

Republican River. Harlan County Nebraska.

Missouri River Division

Kansas City District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Flood Control	Flood Control	PL 75-761, PL 77-228
Irrigation	Irrigation	PL 78-534
Recreation	Recreation	PL 78-534
Fish/Wildlife	Fish/Wildlife	PL 85-624

(continued)

HARLAN COUNTY LAKE (Continued)

1. PL 78-534 recites specific purposes which do not include recreation, but it then generally provides for "other purposes", which could include recreation. Section 4 of this Act provides generic authority for recreation and is cited here as the primary authority.

2. PL 75-761 authorized Milford Lake. PL 77-228 authorized Harlan County Lake in lieu of Milford Lake.

HARRY S. TRUMAN DAM AND RESERVOIR
Osage River. Benton County Missouri.

Missouri River Division
Kansas City District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Recreation	Recreation	PL 87-874
Fish/Wildlife	Fish/Wildlife	PL 87-874
Flood Control	Flood Control	PL 83-780
Hydroelectric Power	Hydroelectric Power	PL 87-874

1. House Document 87-578 recommends that the general comprehensive plan for flood control and other purposes be modified and expanded to include hydropower.

HILLSDALE LAKE
Big Bull Creek. Miami County Kansas.

Missouri River Division
Kansas City District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
	Navigation	PL 83-780
Water Supply	Water Supply	PL 83-780
Water Quality	Water Quality	PL 83-780
Fish/Wildlife	Fish/Wildlife	PL 85-624
Flood Control	Flood Control	PL 83-780
Recreation	Recreation	PL 83-780, PL 78-534

1. The navigation authorized is for incidental improvement of Mississippi River navigation as well as Missouri River navigation. No specific operations are made for this purpose as no storage is allocated for navigation.

KANOPOLIS LAKE
Smoky Hill River. Ellsworth County Kansas.

Missouri River Division
Kansas City District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Flood Control	Flood Control	PL 75-761, PL 77-228
Water Supply	Water Supply	PL 94-423, PL 78-534
	Hydroelectric Power	PL 78-534
Water Quality	Water Quality	PL 92-500
Recreation	Recreation	PL 78-534
	Irrigation	PL 78-534, PL 94-423
Fish/Wildlife	Fish/Wildlife	PL 94-423, PL 85-624
	Navigation	PL 78-534

(continued)

KANOPOLIS LAKE (continued)

1. A surplus water contract for domestic use of water exists under the authority of Section 6, PL 78-534. Low flow augmentation for water quality is an interim use of the sediment storage. Use of storage for irrigation with current available lake storage is under investigation. Municipal and industrial water supply, irrigation, and fish and wildlife conservation authorized in PL 94-423 pertained to a pool raise that has not been implemented. Although PL 78-534 provides general authorization for navigation and power, Kanopolis is not operated for those purposes.

2. In 1949, the Bureau of Reclamation and the Corps agreed to exchange 162,500 acre-feet of flood control storage in Kanopolis Lake for 180,000 acre-feet of flood control storage in the upstream Cedar Bluff Lake. The Bureau received the right to utilize the 162,500 acre-feet of Kanopolis storage for irrigation.

3. PL 78-534 recites specific purposes which do not include recreation, but it then generally provides for "other purposes" which could include recreation. Section 4 of this Act provides generic recreation authority for recreation and is cited here as the clear authority.

4. Section 8 of PL 78-534 requires the Bureau to get a specific Congressional authorization to implement irrigation works/projects at Corps reservoirs. P.L. 88-442 reinforces this requirement. P.L. 94-423 authorizes the Bureau to provide irrigation water for 20,000 acres of land through irrigation works and project modification. However, the pool raise to provide this water has not been implemented.

LONG BRANCH LAKE

Little Chariton River. Macon County Missouri.

Missouri River Division
Kansas City District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Recreation	Recreation	PL 89-298
Water Supply	Water Supply	PL 89-298, PL 85-500
Water Quality	Water Quality	PL 89-298
Flood Control	Flood Control	PL 89-298
Fish/Wildlife	Fish/Wildlife	PL 89-298

1. House Document 89-238 recommends that Long Branch be authorized as a multipurpose project for flood control, recreation, fish and wildlife, water quality, and possible future water supply.

LONGVIEW LAKE

Little Blue River, Jackson County Missouri.

Missouri River Division
Kansas City District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Recreation	Recreation	PL 90-483
Water Quality	Water Quality	PL 90-483
Flood Control	Flood Control	PL 90-483
Fish/Wildlife	Fish/Wildlife	PL 90-483

MELVERN LAKE
Marais des Cygnes River. Osage County Kansas.

Missouri River Division
Kansas City District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Recreation	Recreation	PL 78-534
	Navigation	PL 83-780
	Water Supply	PL 85-500
Flood Control	Flood Control	PL 83-780
Fish/Wildlife	Fish/Wildlife	PL 85-624
Water Quality	Water Quality	PL 83-780

1. No water supply storage is currently under contract. Although PL 83-780 authorized navigation, neither is storage allocated for navigation nor is the project regulated for navigation. The navigation authorized is for incidental improvement of Mississippi and Missouri River navigation.

MILFORD LAKE
Republican River. Geary County Kansas.

Missouri River Division
Kansas City District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Flood Control	Flood Control	PL 83-780
Recreation	Recreation	PL 83-780, PL 78-534, PL 79-626
Navigation	Navigation	PL 83-780
Fish/Wildlife	Fish/Wildlife	PL 85-624
Water Quality	Water Quality	PL 83-780
Water Supply	Water Supply	PL 85-500

1. Navigation and water quality are used as interim purposes of water supply and sediment storage until sediment storage is depleted and water supply storage is all under contract. Interim use of storage for navigation purposes is limited in accordance with an agreement with the State of Kansas.

2. Although authorized (ref. H.D. 81-642) as primarily a flood control project, the use of a portion of the silting storage was also authorized to augment low water flows on the Kansas River when withdrawals from navigation storage in Tuttle Creek or Perry Lakes are not considered desirable.

PERRY LAKE
Delaware River. Jefferson County Kansas.

Missouri River Division
Kansas City District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Flood Control	Flood Control	PL 83-780
Recreation	Recreation	PL 83-780, PL 78-534
Water Supply	Water Supply	PL 85-500
Fish/Wildlife	Fish/Wildlife	PL 85-624
Navigation	Navigation	PL 83-780
Water Quality	Water Quality	PL 83-780

1. Navigation and water quality are used as interim purposes of water supply and sediment storage until sediment storage is depleted and water supply storage is all under contract. Interim use of storage for navigation purposes is limited in accordance with an agreement with the State of Kansas.

POMME DE TERRE LAKE
Pomme de Terre River. Hickory County Missouri.

Missouri River Division
Kansas City District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Flood Control	Flood Control	PL 75-781, PL 78-534, PL 83-780
	Navigation	PL 83-780
Water Quality	Water Quality	PL 83-780
Recreation	Recreation	PL 78-534
Fish/Wildlife	Fish/Wildlife	PL 85-624
	Water Supply	PL 83-780

1. No storage has been allocated for water supply or navigation nor is the project regulated for those purposes.

POMONA LAKE
One Hundred Ten Mile Creek. Osage County Kansas.

Missouri River Division
Kansas City District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Recreation	Recreation	PL 78-834
	Navigation	PL 83-780
Water Supply	Water Supply	PL 85-500
Flood Control	Flood Control	PL 83-780
Fish/Wildlife	Fish/Wildlife	PL 85-624
Water Quality	Water Quality	PL 83-780

1. Neither storage has been allocated for navigation nor is the project operated for navigation. Navigation is an incidental benefit.

RATHBUN LAKE
Chariton River. Appanoose County Iowa.

Missouri River Division
Kansas City District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Flood Control	Flood Control	PL 83-780
	Navigation	PL 83-780
Water Quality	Water Quality	PL 83-780
Recreation	Recreation	PL 78-534
Fish/Wildlife	Fish/Wildlife	PL 85-624
Water Supply	Water Supply	PL 85-500

1. Although navigation is authorized at Rathbun Lake, it has never been operated for that purpose.

SMITHVILLE LAKE
Little Platte River. Clay and Clinton Counties Missouri.

Missouri River Division
Kansas City District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Flood Control	Flood Control	PL 89-298
Recreation	Recreation	PL 89-298
Fish/Wildlife	Fish/Wildlife	PL 89-298
Water Supply	Water Supply	PL 89-298, PL 85-500
Water Quality	Water Quality	PL 89-298

STOCKTON LAKE

Sac River. Cedar County Missouri.

Missouri River Division

Kansas City District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Hydroelectric Power	Hydroelectric Power	PL 83-780
Water Quality	Water Quality	PL 83-780
Recreation	Recreation	PL 83-780
	Water Supply	PL 83-780
	Navigation	PL 83-780
Fish/Wildlife	Fish/Wildlife	PL 85-624
Flood Control	Flood Control	PL 83-780

1. Neither storage has been allocated for water supply or navigation nor is the project regulated for these purposes. Navigation is an incidental benefit.

TUTTLE CREEK LAKE

Big Blue River. Riley and Pottawatomie Counties Kansas.

Missouri River Division

Kansas City District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Flood Control	Flood Control	PL 75-761, PL 77-228, PL 78-534
Water Quality	Water Quality	PL 83-780
Recreation	Recreation	PL 83-780, PL 78-534
Fish/Wildlife	Fish/Wildlife	PL 85-624
Navigation	Navigation	PL 83-780
Water Supply	Water Supply	PL 85-500

WILSON LAKE

Saline River. Russell County Kansas.

Missouri River Division

Kansas City District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Flood Control	Flood Control	PL 78-534, PL 84-505
	Navigation	PL 84-505
	Irrigation	PL 78-534, PL 84-505
Recreation	Recreation	PL 78-534, PL 79-526
Fish/Wildlife	Fish/Wildlife	PL 85-824
Water Quality	Water Quality	PL 84-505

1. Wilson Lake was originally a Bureau of Reclamation project, but was transferred to the Corps of Engineers by PL 84-505.

2. Irrigation is not used because of the high salinity of impounded water. Because of the distance to the Missouri and Mississippi Rivers, navigation is only an incidental benefit and no specific operations are made for that purpose.

BEAR CREEK DAM AND LAKE

South Platte River. Jefferson County Colorado.

Missouri River Division

Omaha District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Fish/Wildlife	Fish/Wildlife	PL 90-483
Flood Control	Flood Control	PL 90-483
Recreation	Recreation	PL 90-483, PL 89-72

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Fish/Wildlife	Fish/Wildlife	PL 78-534, PL 93-205
Recreation	Recreation	PL 78-534
Flood Control	Flood Control	PL 78-534
Navigation	Navigation	PL 78-534
Hydroelectric Power	Hydroelectric Power	PL 78-534
	Irrigation	PL 78-534
Water Supply	Water Supply	PL 78-534
Water Quality	Water Quality	PL 78-534

1. Section 8 of PL 78-534 is the only authorization for irrigation at the Corps main stem Missouri River projects. Section 8 Federal irrigation has not been developed at this project. There is, however, water being withdrawn by individual farmers for private irrigation use.

2. Water can be stored at Corps projects for municipal and industrial purposes through PL 85-500 which provides for purchase of permanent storage and PL 78-534 which provides for the purchase of storage generally for a shorter term. Although neither type of storage exists at this reservoir, water is being withdrawn by individuals and municipalities for M&I purposes. Water is also released from the reservoirs during winter river freeze-in periods to protect the access to water of downstream M&I water intakes.

3. Federally listed endangered species include the endangered least tern and pallid sturgeon and the threatened piping plover.

BOWMAN-HALEY DAM AND LAKE Missouri River Division
 North Fork of Grand River. Bowman County North Dakota. Omaha District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Fish/Wildlife	Fish/Wildlife	PL 87-874
Flood Control	Flood Control	PL 87-874
	Water Supply	PL 87-874
Recreation	Recreation	PL 87-874

1. The project was authorized for municipal and industrial water supply for the communities of Bowman, Reeder, Gascoyne and Scranton. However, pumping and treatment facilities were never constructed and these communities have developed other more favorable sources of water supply.

BULL HOOK - SCOTT COULEE DAMS Missouri River Division
 Bull Hook Creek and Scott Coulee. Hill County Montana. Omaha District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Flood Control	Flood Control	PL 78-534

CEDAR CANYON DAM
Cheyenne River Basin. Pennington County South Dakota.

Missouri River Division
Omaha District

Operating Purposes
Flood Control

Authorized Purposes
Flood Control

Authorizing Laws
PL 80-858

CHATFIELD DAM AND LAKE
South Platte River. Douglas County Colorado.

Missouri River Division
Omaha District

Operating Purposes
Recreation
Flood Control
Fish/Wildlife
Water Supply

Authorized Purposes
Recreation
Flood Control
Fish/Wildlife
Water Supply

Authorizing Laws
PL 89-72, PL 99-662, PL 93-251
PL 81-516, PL 99-882
PL 99-662
PL 99-662

CHERRY CREEK DAM AND LAKE
South Platte River. Arapahoe County Colorado.

Missouri River Division
Omaha District

Operating Purposes
Recreation
Flood Control
Fish/Wildlife

Authorized Purposes
Recreation
Flood Control
Fish/Wildlife

Authorizing Laws
PL 78-534
PL 77-228, PL 76-534
PL 79-732, PL 78-534

COLDBROOK DAM AND LAKE
Cold Brook. Fall River County South Dakota.

Missouri River Division
Omaha District

Operating Purposes
Fish/Wildlife
Flood Control
Recreation

Authorized Purposes
Fish/Wildlife
Flood Control
Recreation

Authorizing Laws
PL 77-228, PL 78-534
PL 77-228
PL 77-228, PL 78-534

COTTONWOOD SPRINGS DAM AND LAKE
Cottonwood Springs Creek. Fall River County South Dakota.

Missouri River Division
Omaha District

Operating Purposes
Recreation
Flood Control
Fish/Wildlife

Authorized Purposes
Recreation
Flood Control
Fish/Wildlife

Authorizing Laws
PL 77-228, PL 78-534
PL 77-228, PL 78-534
PL 77-228

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Fish/Wildlife	Fish/Wildlife	PL 93-205
Hydroelectric Power	Hydroelectric Power	PL 74-409, PL 75-529
Recreation	Recreation	PL 99-662
Flood Control	Flood Control	PL 74-409, PL 75-529
Water Quality	Water Quality	PL 92-500
Water Supply	Water Supply	PL 78-534
Navigation	Navigation	PL 74-409, PL 75-529
	Irrigation	PL 78-534

1. Section 8 of PL 78-534 is the only authorization for irrigation at the Corps main stem Missouri River projects. Section 8 Federal irrigation has not been developed at this project. There is, however, water being withdrawn by individual farmers for private irrigation use.

2. Water can be stored at Corps projects for municipal and industrial purposes through PL 85-500 which provides for purchase of permanent storage and PL 78-534 which provides for the purchase of storage generally for a shorter term. Although neither type of storage exists at this reservoir, water is being withdrawn by individuals and municipalities for M&I purposes. Water is released from the reservoirs during winter river freeze-in periods to protect the access to water of downstream M&I water intakes.

3. Federally listed endangered species include the endangered least tern and pallid sturgeon and the threatened piping plover.

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Recreation	Recreation	PL 78-534
	Irrigation	PL 78-534
Fish/Wildlife	Fish/Wildlife	PL 78-534, PL 93-205
Water Quality	Water Quality	PL 78-534
Hydroelectric Power	Hydroelectric Power	PL 78-534
Navigation	Navigation	PL 78-534
Flood Control	Flood Control	PL 78-534
Water Supply	Water Supply	PL 78-534

1. Section 8 of PL 78-534 is the only authorization for irrigation at the Corps main stem Missouri River projects. Section 6 irrigation has not been developed at this project. There is, however, water being withdrawn by individual farmers for private irrigation use.

2. Water can be stored at Corps projects for municipal and industrial purposes through PL 85-500 which provides for purchase of permanent storage and PL 78-534 which provides for the purchase of storage generally for a shorter term. Although neither type of storage exists at this reservoir, water is being withdrawn by individuals and

(continued)

FORT RANDALL DAM - LAKE FRANCIS CASE (continued)

municipalities for M&I purposes. Water is also released from the reservoirs during winter river freeze-in periods to protect the access to water of downstream M&I water intakes.

3. Federally listed endangered species include the endangered least tern and pallid sturgeon and the threatened piping plover.

GARRISON DAM - LAKE SAKAKAWEA

Missouri River. Mercer, McLean, Dunn, Mountrail, McKenzie, and Williams Counties North Dakota.

Missouri River Division
Omaha District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Fish/Wildlife	Fish/Wildlife	PL 78-534, PL 93-205
Hydroelectric Power	Hydroelectric Power	PL 78-534
Recreation	Recreation	PL 78-534
Flood Control	Flood Control	PL 78-534
Water Quality	Water Quality	PL 78-534
Water Supply	Water Supply	PL 78-534
Irrigation	Irrigation	PL 78-534
Navigation	Navigation	PL 78-534

1. Section 8 of PL 78-534 is the only authorization for irrigation at the Corps main stem Missouri River projects. There is a Section 8 Federal irrigation project authorized at this project but it is not yet operational. There is, however, water being withdrawn by individual farmers for private irrigation use.

2. Water can be stored at Corps projects for municipal and industrial purposes through PL 85-500 which provides for purchase of permanent storage and PL 78-534 which provides for the purchase of storage generally for a shorter term. Although there is no PL 85-500 storage, there is PL 78-534 storage at this reservoir. Water is also being withdrawn by individuals and municipalities for M&I purposes without a Section 8 (PL 78-534) contract. Water is also released from the reservoirs during winter river freeze-in periods to protect the access to water of downstream M&I water intakes.

3. Federally listed endangered species include the endangered least tern and pallid sturgeon and the threatened piping plover.

GAVINS POINT DAM - LEWIS AND CLARK LAKE

Missouri River. Yankton and Bon Homme Counties South Dakota.
Cedar and Knox Counties Nebraska

Missouri River Division
Omaha District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Fish/Wildlife	Fish/Wildlife	PL 78-534, PL 93-205
Hydroelectric Power	Hydroelectric Power	PL 78-534
Recreation	Recreation	PL 78-534
Flood Control	Flood Control	PL 78-534
Water Quality	Water Quality	PL 78-534
Water Supply	Water Supply	PL 78-534
	Irrigation	PL 78-534
Navigation	Navigation	PL 78-534

(continued)

GAVINS POINT DAM - LEWIS AND CLARK LAKE (CONTINUED)

1. Section 8 of PL 78-534 is the only authorization for irrigation at the Corps main stem Missouri River projects. Section 8 Federal irrigation has not been developed at this project. There is, however, water being withdrawn by individual farmers for private irrigation use.

2. Water can be stored at Corps projects for municipal and industrial purposes through PL 85-500 which provides for purchase of permanent storage and PL 78-534 which provides for the purchase of storage generally for a shorter term. Although neither type of storage exists at this reservoir, water is being withdrawn by individuals and municipalities for M&I purposes. Water is also released from the reservoirs during winter river freeze-in periods to protect the access to water of downstream M&I water intakes.

3. Federally listed endangered species include the endangered least tern and pallid sturgeon and the threatened piping plover.

KELLY ROAD DAM

Westerly Creek. Denver County Colorado.

Missouri River Division
Omaha District

Operating Purposes

Flood Control

Authorized Purposes

Flood Control

Authorizing Laws

PL 80-858

OAHE DAM - LAKE OAHE

Missouri River. Stanley, Hughes, Dewey, Sully, Potter, Corson, Walworth, Campbell Counties South Dakota. Sioux and Emmons Counties North Dakota

Missouri River Division
Omaha District

Operating Purposes

Fish/Wildlife

Recreation

Flood Control

Water Quality

Hydroelectric Power

Water Supply

Navigation

Authorized Purposes

Fish/Wildlife

Recreation

Flood Control

Water Quality

Hydroelectric Power

Irrigation

Water Supply

Navigation

Authorizing Laws

PL 78-534, PL 93-205

PL 78-534

PL 78-534

PL 78-534

PL 78-534

PL 78-534

PL 78-534

PL 78-534

1. Section 8 of PL 78-534 is the only authorization for irrigation at the Corps main stem Missouri River projects. Section 8 Federal irrigation has not been developed at this project. There is, however, water being withdrawn by individual farmers for private irrigation use.

2. Water can be stored at Corps projects for municipal and industrial purposes through PL 85-500 which provides for purchase of permanent storage and PL 78-534 which provides for the purchase of storage generally for a shorter term. Although neither type of storage exists at this reservoir, water is being withdrawn by individuals and municipalities for M&I purposes. Water is also released from the reservoirs during winter river freeze-in periods to protect the access to water of downstream M&I water intakes.

(continued)

3. Federally listed endangered species include the endangered least tern and pallid sturgeon and the threatened piping plover.

PAPILLION CREEK DAM #11 - GLENN CUNNINGHAM LAKE
Knight Creek. Douglas County Nebraska.

Missouri River Division
Omaha District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Water Quality	Water Quality	PL 90-483
Flood Control	Flood Control	PL 90-483
Recreation	Recreation	PL 90-483, PL 89-72
Fish/Wildlife	Fish/Wildlife	PL 90-483

PAPILLION CREEK DAM #18 - STANDING BEAR LAKE
Tributary Big Papillion Creek. Douglas County Nebraska.

Missouri River Division
Omaha District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Recreation	Recreation	PL 90-483, PL 89-72
Fish/Wildlife	Fish/Wildlife	PL 90-483
Water Quality	Water Quality	PL 90-483
Flood Control	Flood Control	PL 90-483

PAPILLION CREEK DAM #18 - ZORINSKY LAKE
Boxelder Creek. Douglas County Nebraska.

Missouri River Division
Omaha District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Water Quality	Water Quality	PL 90-483
Flood Control	Flood Control	PL 90-483
Recreation	Recreation	PL 90-483, PL 89-72
Fish/Wildlife	Fish/Wildlife	PL 90-483

PAPILLION CREEK DAM #20 - WEHRSPANN LAKE
Tributary South Branch Papillion Creek. Sarpy County Nebraska.

Missouri River Division
Omaha District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Water Quality	Water Quality	PL 90-483
Flood Control	Flood Control	PL 90-483
Recreation	Recreation	PL 90-483, PL 89-72
Fish/Wildlife	Fish/Wildlife	PL 90-483

PIPESTEM DAM AND LAKE
Pipestem Creek. Stutsman County North Dakota.

Missouri River Division
Omaha District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Recreation	Recreation	PL 89-298, PL 89-72
Flood Control	Flood Control	PL 89-298
Fish/Wildlife	Fish/Wildlife	PL 89-298

Operating Purposes

Flood Control
Fish/Wildlife
Recreation

Authorized Purposes

Flood Control
Fish/Wildlife
Recreation

Authorizing Laws

PL 85-500
PL 85-500, PL 78-534
PL 85-500, PL 78-534

SALT CREEK DAM #4 - BLUE STEM LAKE
North Tributary of Olive Creek. Lancaster County Nebraska.

Missouri River Division
Omaha District

Operating Purposes

Recreation
Flood Control
Fish/Wildlife

Authorized Purposes

Recreation
Flood Control
Fish/Wildlife

Authorizing Laws

PL 85-500, PL 78-534
PL 85-500
PL 85-500, PL 78-534

SALT CREEK DAM #8 - WAGON TRAIN LAKE
North Tributary of Hickman Branch. Lancaster County Nebraska.

Missouri River Division
Omaha District

Operating Purposes

Fish/Wildlife
Flood Control
Recreation

Authorized Purposes

Fish/Wildlife
Flood Control
Recreation

Authorizing Laws

PL 85-500, PL 78-534
PL 85-500
PL 85-500, PL 78-534

SALT CREEK DAM #9 - STAGECOACH LAKE
South Tributary of Hickman Branch. Lancaster County Nebraska.

Missouri River Division
Omaha District

Operating Purposes

Recreation
Flood Control
Fish/Wildlife

Authorized Purposes

Recreation
Flood Control
Fish/Wildlife

Authorizing Laws

PL 85-500, PL 78-534
PL 85-500
PL 85-500, PL 78-534

SALT CREEK DAM #10 - YANKEE HILL LAKE
Cardwell Branch. Lancaster County Nebraska.

Missouri River Division
Omaha District

Operating Purposes

Flood Control
Fish/Wildlife
Recreation

Authorized Purposes

Flood Control
Fish/Wildlife
Recreation

Authorizing Laws

PL 85-500
PL 85-500, PL 78-534
PL 85-500, PL 78-534

Operating Purposes

Recreation
Flood Control
Fish/Wildlife

Authorized Purposes

Recreation
Flood Control
Fish/Wildlife

Authorizing Laws

PL 85-500, PL 78-534
PL 85-500
PL 85-500, PL 78-534

SALT CREEK DAM #13 - TWIN LAKE
Middle Creek. Lancaster County Nebraska.

Missouri River Division
Omaha District

Operating Purposes

Fish/Wildlife
Flood Control
Recreation

Authorized Purposes

Fish/Wildlife
Flood Control
Recreation

Authorizing Laws

PL 85-500, PL 78-534
PL 85-500
PL 85-500, PL 78-534

SALT CREEK DAM #14 - PAWNEE LAKE
North Middle Creek. Lancaster County Nebraska.

Missouri River Division
Omaha District

Operating Purposes

Recreation
Flood Control
Fish/Wildlife

Authorized Purposes

Recreation
Flood Control
Fish/Wildlife

Authorizing Laws

PL 85-500, PL 78-534
PL 85-500
PL 85-500, PL 78-534

SALT CREEK DAM #17 - HOLMES LAKE PARK
Antelope Creek. Lancaster County Nebraska.

Missouri River Division
Omaha District

Operating Purposes

Flood Control
Fish/Wildlife
Recreation

Authorized Purposes

Flood Control
Fish/Wildlife
Recreation

Authorizing Laws

PL 85-500
PL 85-500, PL 78-534
PL 85-500, PL 78-534

SALT CREEK DAM #18 - BRANCHED OAK LAKE
Oak Creek. Lancaster County Nebraska.

Missouri River Division
Omaha District

Operating Purposes

Recreation
Flood Control
Fish/Wildlife

Authorized Purposes

Recreation
Flood Control
Fish/Wildlife

Authorizing Laws

PL 85-500, PL 78-534
PL 85-500
PL 85-500, PL 78-534

SNAKE CREEK DAM - LAKE AUDUBON

Missouri River Division

Snake Creek, McLean County North Dakota.

Omaha District

Operating Purposes

Recreation

Fish/Wildlife

Authorized Purposes

Recreation

Fish/Wildlife

Authorizing Laws

PL 78-534

PL 79-732

SPRING CREEK DAM - LAKE POCASSE

Missouri River Division

Spring Creek, Campbell County South Dakota.

Omaha District

Operating Purposes

Fish/Wildlife

Authorized Purposes

Fish/Wildlife

Authorizing Laws

PL 85-824

ALMOND LAKE

Canacadea Creek. Steuben County New York.

North Atlantic Division

Baltimore District

Operating Purposes

Recreation

Flood Control

Authorized Purposes

Recreation

Flood Control

Authorizing Laws

PL 78-534

PL 74-738

ALVIN R. BUSH DAM

Kettle Creek. Clinton County Pennsylvania.

North Atlantic Division

Baltimore District

Operating Purposes

Flood Control

Recreation

Authorized Purposes

Flood Control

Recreation

Authorizing Laws

PL 83-780

PL 78-534

ARKPORT DAM

Canisteo River. Steuben County New York.

North Atlantic Division

Baltimore District

Operating Purposes

Flood Control

Authorized Purposes

Flood Control

Authorizing Laws

PL 74-738

AYLESWORTH CREEK LAKE

Aylesworth Creek. Lackawanna County Pennsylvania.

North Atlantic Division

Baltimore District

Operating Purposes

Recreation

Flood Control

Authorized Purposes

Recreation

Flood Control

Authorizing Laws

PL 78-534

PL 87-874

COWANESQUE LAKE

Cowanesque River. Tioga County Pennsylvania.

North Atlantic Division

Baltimore District

Operating Purposes

Water Supply

Water Quality

Recreation

Flood Control

Authorized Purposes

Water Supply

Water Quality

Recreation

Flood Control

Authorizing Laws

PL 85-500

PL 92-500

PL 78-534

PL 85-500

CURWENSVILLE LAKE

West Branch Susquehanna River. Clearfield County Pennsylvania.

North Atlantic Division

Baltimore District

Operating Purposes

Recreation

Water Quality

Fish/Wildlife

Flood Control

Authorized Purposes

Recreation

Water Quality

Fish/Wildlife

Flood Control

Authorizing Laws

PL 78-534

PL 92-500

PL 85-824

PL 83-780

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Recreation	Recreation	PL 78-534
Flood Control	Flood Control	PL 74-738

FOSTER JOSEPH SAYERS DAM North Atlantic Division
Bald Eagle Creek, Centre County Pennsylvania. Baltimore District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Water Quality	Water Quality	PL 92-500
Recreation	Recreation	PL 78-534
Flood Control	Flood Control	PL 83-780

JENNINGS RANDOLPH LAKE North Atlantic Division
North Branch Potomac River, Garrett County Maryland, Mineral County West Virginia Baltimore District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Recreation	Recreation	PL 87-874, PL 100-676
Water Supply	Water Supply	PL 87-874
Flood Control	Flood Control	PL 87-874
Water Quality	Water Quality	PL 87-874

1. PL 87-874 included only in-lake recreation as an authorized purpose. PL 100-878 added downstream white water recreation, fishing, and boating as authorized purposes.

RAYSTOWN LAKE North Atlantic Division
Raystown Branch Juniata River, Huntingdon County Pennsylvania. Baltimore District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Flood Control	Flood Control	PL 87-874
Fish/Wildlife	Fish/Wildlife	PL 87-874
	Hydroelectric Power	PL 87-874
Recreation	Recreation	PL 87-874

1. Federal hydropower development was included in the initial authorization, but was not included in final design because it was not economically justifiable.

STILLWATER LAKE North Atlantic Division
Laokawanna River, Susquehanna County Pennsylvania. Baltimore District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Water Supply	Water Supply	PL 77-228
Flood Control	Flood Control	PL 77-228

TIOGA-HAMMOND LAKES

Tioga River and Crooked Creek. Tioga County Pennsylvania.

North Atlantic Division
Baltimore DistrictOperating PurposesFlood Control
Recreation
Water QualityAuthorized PurposesFlood Control
Recreation
Water QualityAuthorizing LawsPL 85-500
PL 78-534
PL 92-500**WHITNEY POINT LAKE**

Otselic River. Broome County New York.

North Atlantic Division
Baltimore DistrictOperating PurposesRecreation
Flood ControlAuthorized PurposesRecreation
Flood ControlAuthorizing LawsPL 78-534
PL 74-738**YORK INDIAN ROCK DAM**

Codorus Creek. York County Pennsylvania.

North Atlantic Division
Baltimore DistrictOperating Purposes

Flood Control

Authorized Purposes

Flood Control

Authorizing Laws

PL 74-738

GATHRIGHT DAM AND LAKE MOOMAW

Jackson River. Alleghany and Bath Counties Virginia.

North Atlantic Division
Norfolk DistrictOperating PurposesFlood Control
Water Quality
Recreation
Fish/WildlifeAuthorized PurposesFlood Control
Water Quality
Recreation
Hydroelectric Power
Fish/WildlifeAuthorizing LawsPL 79-528
PL 79-528
PL 79-528
PL 79-528
PL 85-624

1. Studies before construction determined that hydroelectric power was not economically justified.

BELTZVILLE LAKE

Pohopoco Creek. Carbon and Monroe Counties Pennsylvania.

North Atlantic Division
Philadelphia DistrictOperating PurposesWater Quality
Low Flow Augmentation
Water Supply
Recreation
Flood ControlAuthorized PurposesWater Quality
Low Flow Augmentation
Water Supply
Recreation
Flood ControlAuthorizing LawsPL 87-874, PL 87-88, PL 92-500
PL 87-874, PL 87-88, PL 92-500
PL 87-874
PL 87-874
PL 87-874

BLUE MARSH LAKE
Tulpehocken Creek. Lebanon and Berks Counties Pennsylvania.

North Atlantic Division
Philadelphia District

Operating Purposes

Low Flow Augmentation
Recreation
Water Quality
Flood Control
Water Supply

Authorized Purposes

Low Flow Augmentation
Recreation
Water Quality
Flood Control
Water Supply

Authorizing Laws

PL 87-874, PL 87-88, PL 92-500
PL 87-874
PL 87-874, PL 87-88, PL 92-500
PL 87-874
PL 87-874

FRANCIS E. WALTER RESERVOIR

Lehigh River. Carbon, Luzerne, Monroe Counties
Pennsylvania.

North Atlantic Division
Philadelphia District

Operating Purposes

Flood Control
Recreation
Water Supply

Authorized Purposes

Flood Control
Recreation
Water Supply

Authorizing Laws

PL 79-528
PL 100-678
PL 78-534

1. The Delaware River Basin Commission plan to provide temporary water supply during drought emergencies has been coordinated with the District drought contingency plan. Individual water supply contracts will be initiated as drought conditions and plans necessitate.

GENERAL EDGAR JADWIN DAM AND RESERVOIR

Dyberry Creek. Wayne County Pennsylvania.

North Atlantic Division
Philadelphia District

Operating Purposes

Flood Control

Authorized Purposes

Flood Control

Authorizing Laws

PL 80-858

PROMPTON RESERVOIR

West Branch Lackawaxen River. Wayne County Pennsylvania.

North Atlantic Division
Philadelphia District

Operating Purposes

Flood Control

Authorized Purposes

Recreation
Flood Control

Authorizing Laws

PL 78-534
PL 80-858

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

MOUNT MORRIS DAM

Genesee River. Livingston County New York.

North Central Division

Buffalo District

Operating Purposes

Flood Control

Authorized Purposes

Flood Control

Authorizing Laws

PL 78-534

CHICAGO HARBOR LOCK AND CHICAGO RIVER CONTROLLING WORKS

Chicago Sanitary and Ship Canal. Cook County Illinois.

North Central Division

Chicago District

Operating Purposes

Flood Control

Recreation

Water Quality

Navigation

Authorized Purposes

Flood Control

Recreation

Water Quality

Navigation

Authorizing Laws

PL 97-88, PL 98-83

PL 78-534

PL 97-88, PL 98-63

PL 97-88, PL 98-63

1. Project is owned by the Metropolitan Water Reclamation District of Greater Chicago (MWRDGC). The project is operated and maintained by the Corps of Engineers.
2. Project diverts water from Lake Michigan to the Illinois Waterway.
3. Instructions for regulation of the water control works are issued by the MWRDGC.

CEDARS LOCK AND DAM

Fox River. Outagamie County Wisconsin.

North Central Division

Detroit District

Operating PurposesAuthorized Purposes

Navigation

Authorizing Laws

RHA 1872

1. The Fox River is no longer utilized for commercial navigation.
2. The lock(s) is currently operated, when funds are available, at State expense for the purpose of recreational navigation.
3. The Corps of Engineers continues to operate this and the other Fox River dams in accordance with the water control plan established during the period of commercial navigation. Certain uses of the river indirectly benefit from this regulation, namely, industrial water supply, recreation and non-Federal hydroelectric power. Currently, the Corps is evaluating the legal basis for continuing its operation of the Fox River system of locks and dams.

DEPERE LOCK AND DAM

Fox River. Brown County Wisconsin.

North Central Division

Detroit District

Operating PurposesAuthorized Purposes

Navigation

Authorizing Laws

RHA 1872

1. See notes 1, 2 and 3 for Cedars Lock and Dam.

KAUKAUNA LOCKS AND DAM

Fox River. Outagamie County Wisconsin.

North Central Division

Detroit District

Operating PurposesAuthorized PurposesAuthorizing Laws

Navigation

RHA 1872

1. See notes 1, 2 and 3 for Cedars Lock and Dam.

LITTLE CHUTE LOCKS AND DAM

Fox River. Outagamie County Wisconsin.

North Central Division

Detroit District

Operating PurposesAuthorized PurposesAuthorizing Laws

Navigation

RHA 1872

1. See notes 1, 2 and 3 for Cedars Lock and Dam.

LITTLE KAUKAUNA LOCK AND DAM

Fox River. Brown County Wisconsin.

North Central Division

Detroit District

Operating PurposesAuthorized PurposesAuthorizing Laws

Navigation

RHA 1872

1. See notes 1, 2 and 3 for Cedars Lock and Dam.

LOWER APPLETON LOCKS AND DAM

Fox River. Outagamie County Wisconsin.

North Central Division

Detroit District

Operating PurposesAuthorized PurposesAuthorizing Laws

Navigation

RHA 1872

1. See notes 1, 2 and 3 for Cedars Lock and Dam.

MENASHA LOCK AND DAM - LAKE WINNEBAGO

Fox River. Winnebago County Wisconsin.

North Central Division

Detroit District

Operating PurposesAuthorized PurposesAuthorizing Laws

Water Supply

Fish/Wildlife

Flood Control

Recreation

Fish/Wildlife

Navigation

Flood Control

Recreation

PL 85-624

RHA 1870, RHA 1872

RHA 1882, RHA 1884

PL 78-534

1. Although storage space is not allocated for water supply on either a permanent (PL 85-500) or temporary (PL 78-534) basis, water is being withdrawn by municipalities for M&I purposes. Consequently, during drought, consideration is given to keeping the lake level above the supply intakes.

2. The lock is currently operated at State expense for recreational navigation.

RAPIDE CROCHE LOCK AND DAM
Fox River. Outagamie County Wisconsin.

North Central Division
Detroit District

Operating PurposesAuthorized PurposesAuthorizing Laws

Navigation

RHA 1872

1. See notes 1, 2 and 3 for Cedars Lock and Dam.

UPPER APPLETON LOCKS AND DAM
Fox River. Outagamie County Wisconsin.

North Central Division
Detroit District

Operating PurposesAuthorized PurposesAuthorizing Laws

Navigation

RHA 1872

1. See notes 1, 2 and 3 for Cedars Lock and Dam.

BRANDON ROAD LOCK AND DAM
Des Plaines River. Will County Illinois.

North Central Division
Rock Island District

Operating PurposesAuthorized PurposesAuthorizing Laws

Navigation

Recreation

PL 78-534

Navigation

PL 71-520, RHA 1894

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

CORALVILLE LAKE
Iowa River. Johnson County Iowa.

North Central Division
Rock Island District

Operating PurposesAuthorized PurposesAuthorizing Laws

Flood Control

Water Supply

PL 75-761

Flood Control

PL 75-761

Recreation

PL 75-761

Low Flow Augmentation

Water Conservation

PL 75-761

Fish/Wildlife

Fish/Wildlife

PL 85-624

1. Storage space for M&I water supply was not incorporated into the project's design; no need existed.
2. Access and facilities are provided for recreation but water is not controlled for that purpose.

Operating Purposes

Authorized Purposes

Authorizing Laws

Navigation

Recreation
Navigation

PL 78-534
PL 71-520, RHA 1894

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

FARMDALE DAM (FARM CREEK, IL)
Farm Creek. Tazewell County Illinois.

North Central Division
Rock Island District

Operating Purposes

Authorized Purposes

Authorizing Laws

Flood Control

Recreation
Flood Control

PL 78-534
PL 78-534

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

FONDULAC DAM (FARM CREEK, IL)
Fondulac Creek. Tazewell County Illinois.

North Central Division
Rock Island District

Operating Purposes

Authorized Purposes

Authorizing Laws

Flood Control

Recreation
Flood Control

PL 78-534
PL 78-534

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

LAGRANGE LOCK AND DAM
Illinois River. Brown County Illinois.

North Central Division
Rock Island District

Operating Purposes

Authorized Purposes

Authorizing Laws

Navigation

Recreation
Navigation

PL 78-534
PL 71-520, PL 74-409, RHA 1894

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

LOCK AND DAM NO.11 - MISSISSIPPI RIVER
Mississippi River. Dubuque County Iowa.

North Central Division
Rock Island District

Operating Purposes

Authorized Purposes

Authorizing Laws

Navigation

Recreation
Navigation

PL 78-534
PL 71-520, PR 72-10, RHA 1894

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

LOCK AND DAM NO. 12 - MISSISSIPPI RIVER
Mississippi River. Jackson County Iowa.

North Central Division
Rock Island District

Operating Purposes

Authorized Purposes

Authorizing Laws

Navigation	Recreation Navigation	PL 78-534 PL 71-520, PR 72-10, RHA 1894

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

LOCK AND DAM NO. 13 - MISSISSIPPI RIVER
Mississippi River. Clinton County Iowa.

North Central Division
Rock Island District

Operating Purposes

Authorized Purposes

Authorizing Laws

Navigation	Recreation Navigation	PL 78-534 PL 71-520, PR 72-10, RHA 1894

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

LOCK AND DAM NO. 14 - MISSISSIPPI RIVER
Mississippi River. Scott County Iowa.

North Central Division
Rock Island District

Operating Purposes

Authorized Purposes

Authorizing Laws

Navigation	Recreation Navigation	PL 78-534 PL 71-520, PR 72-10, RHA 1894

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

LOCK AND DAM NO. 15 - MISSISSIPPI RIVER
Mississippi River. Rock Island County Illinois.

North Central Division
Rock Island District

Operating Purposes

Authorized Purposes

Authorizing Laws

Navigation	Recreation Navigation	PL 78-534 PL 71-520, PR 72-10, RHA 1894

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

LOCK AND DAM NO. 16 - MISSISSIPPI RIVER
Mississippi River. Muscatine County Iowa.

North Central Division
Rock Island District

Operating Purposes

Authorized Purposes

Authorizing Laws

Navigation	Recreation Navigation	PL 78-534 PL 71-520, PR 72-10, RHA 1894

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

Operating Purposes

Authorized Purposes

Authorizing Laws

Navigation

Recreation

PL 78-534

Navigation

PL 71-520, PR 72-10, RHA 1894

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

LOCK AND DAM NO.18 - MISSISSIPPI RIVER
Mississippi River. Des Moines County Iowa.

North Central Division
Rock Island District

Operating Purposes

Authorized Purposes

Authorizing Laws

Navigation

Recreation

PL 78-534

Navigation

PL 71-520, PR 72-10, RHA 1894

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

LOCK AND DAM NO.20 - MISSISSIPPI RIVER
Mississippi River. Lewis County Missouri.

North Central Division
Rock Island District

Operating Purposes

Authorized Purposes

Authorizing Laws

Navigation

Recreation

PL 78-534

Navigation

PL 71-520, PR 72-10, RHA 1894

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

LOCK AND DAM NO.21 - MISSISSIPPI RIVER
Mississippi River. Adams County Illinois.

North Central Division
Rock Island District

Operating Purposes

Authorized Purposes

Authorizing Laws

Navigation

Recreation

PL 78-534

Navigation

PL 71-520, PR 72-10, RHA 1894

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

LOCK AND DAM NO.22 - MISSISSIPPI RIVER
Mississippi River. Ralls County Missouri.

North Central Division
Rock Island District

Operating Purposes

Authorized Purposes

Authorizing Laws

Navigation

Recreation

PL 78-534

Navigation

PL 71-520, PR 72-10, RHA 1894

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
	Recreation	PL 78-534
Navigation	Navigation	PL 71-520, RHA 1894

1. Access and facilities are provided for recreation but water is not controlled for that purpose.
2. Project consists of power plant and controlling works which are owned and operated by the Metropolitan Water Reclamation District of Greater Chicago (MWRDGC), and a navigation lock, which is owned and operated by the Corps of Engineers.
3. Instructions for regulation of the water control works are issued by the MWRDGC.

MARSEILLES LOCK, CANAL, MARSEILLES DAM North Central Division
 Illinois River. LaSalle County Illinois. Rock Island District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
	Recreation	PL 78-534
Navigation	Navigation	PL 71-520, RHA 1894

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

PEORIA LOCK AND DAM North Central Division
 Illinois River. Peoria County Illinois. Rock Island District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
	Recreation	PL 78-534
Navigation	Navigation	PL 71-520, PL 74-409, RHA 1894

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

RED ROCK DAM AND LAKE RED ROCK North Central Division
 Des Moines River. Marion, Jasper, Warren, Polk Counties Iowa. Rock Island District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Fish/Wildlife	Fish/Wildlife	PL 85-624
Flood Control	Flood Control	PL 75-761
Low Flow Augmentation	Water Conservation	PL 75-761
	Hydroelectric Power	PL 75-761
	Water Supply	PL 75-761
	Recreation	PL 75-761

(continued)

1. In Senate Doc. 9, 85th Cong., 1st Sess., which was the basis for the authorization of Saylorville Reservoir in PL 85-500, the plan for Red Rock Reservoir was modified so as to remove the previously authorized (PL 75-761) conservation storage. As a consequence, Red Rock was constructed with storage space provided only for flood control and sediment accumulation; hydroelectric power, water conservation and water supply were thus eliminated as purposes for operation.

2. Water is being stored in the sediment accumulation zone of the reservoir (until such time as it fills with sediment) for the purpose of low flow augmentation for water quality control of the Des Moines River in the vicinity of Ottumwa, Iowa.

3. Access and facilities are provided for recreation but water is not controlled for that purpose.

SAYLORVILLE LAKE

Des Moines River. Polk, Dallas, Boone Counties Iowa.

North Central Division
Rock Island District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Fish/Wildlife	Fish/Wildlife	PL 85-624
Flood Control	Flood Control	PL 85-500
	Recreation	PL 85-500
Low Flow Augmentation	Water Conservation	PL 85-500
Water Supply	Water Supply	PL 85-500

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

STARVED ROCK LOCK AND DAM

Illinois River. LaSalle County Illinois.

North Central Division
Rock Island District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
	Recreation	PL 78-534
Navigation	Navigation	PL 71-520, RHA 1894

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

THOMAS J. O'BRIEN LOCK AND CONTROLLING WORKS

Calumet River. Cook County Illinois.

North Central Division
Rock Island District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
	Recreation	PL 78-534
Navigation	Navigation	PL 71-520, PL 79-525, RHA 1894

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

2. Instructions for regulation of the water control works are issued by the Metropolitan Water Reclamation District of Greater Chicago (MWRDGC).

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Fish/Wildlife	Fish/Wildlife	PL 89-298
Flood Control	Flood Control	PL 89-298
Recreation	Recreation	PL 89-298

EAU GALLE RIVER LAKE
 Eau Galle River, Pierce and St. Croix Counties Wisconsin. North Central Division
 St. Paul District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Flood Control	Flood Control	PL 85-500
	Recreation	PL 78-534
Fish/Wildlife	Fish/Wildlife	PL 85-624

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

GULL LAKE DAM
 Gull River, Cass County Minnesota. North Central Division
 St. Paul District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Flood Control	Flood Control	PL 78-534
Recreation	Recreation	PL 78-534
Water Quality	Water Quality	PL 92-500
Water Supply	Water Supply	PL 85-500
Fish/Wildlife	Fish/Wildlife	PL 85-624
	Navigation	RHA 1880

1. The need to regulate this project for navigation was eliminated once the Mississippi River locks and dams above Lake Pepin were completed.

HOMME LAKE AND DAM
 Park River, Walsh County North Dakota. North Central Division
 St. Paul District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Flood Control	Flood Control	PL 78-534
Water Supply	Water Supply	PL 78-534
	Recreation	PL 78-534

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

LAC QUI PARLE LAKES (LAC QUI PARLE DAM) North Central Division
Minnesota River. Lac qui Parle, Chippewa, Swift, Big Stone St. Paul District
Counties Minnesota.

Operating Purposes
Water Conservation
Flood Control

Authorized Purposes
Water Conservation
Flood Control

Authorizing Laws
PL 74-738
PL 74-738

LAC QUI PARLE LAKES (MARSH LAKE DAM)
Minnesota River. Lac qui Parle, Chippewa, Swift, Big Stone
Counties Minnesota.

North Central Division
St. Paul District

Operating Purposes
Water Conservation
Flood Control

Authorized Purposes
Water Conservation
Flood Control

Authorizing Laws
PL 74-738
PL 74-738

1. Marsh Lake Dam is part of the Lac qui Parle project.

LAKE ASHTABULA - BALDHILL DAM
Sheyenne River. Barnes County North Dakota.

North Central Division
St. Paul District

Operating Purposes
Water Conservation
Flood Control

Authorized Purposes
Water Conservation
Flood Control

Authorizing Laws
PL 78-534
PL 78-534

LAKE TRAVERSE (RESERVATION CONTROL DAM)
Bois de Sioux River. Traverse County Minnesota. Roberts County
South Dakota

North Central Division
St. Paul District

Operating Purposes
Water Conservation
Flood Control

Authorized Purposes
Water Conservation
Flood Control

Authorizing Laws
PL 74-738
PL 74-738

LAKE TRAVERSE (WHITE ROCK DAM)
Bois de Sioux River. Traverse County Minnesota. Roberts County
South Dakota

North Central Division
St. Paul District

Operating Purposes
Water Conservation
Flood Control

Authorized Purposes
Water Conservation
Flood Control

Authorizing Laws
PL 74-738
PL 74-738

1. White Rock is the primary structure for the Lake Traverse project.

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Recreation	Recreation	PL 78-534
Fish/Wildlife	Fish/Wildlife	PL 85-824
Water Supply	Water Supply	PL 85-500
Indian Tribal Rights		
	Navigation	RHA 1680
Flood Control	Flood Control	PL 78-534
Water Quality	Water Quality	PL 92-500

1. The need to regulate this project for navigation was eliminated once the Mississippi River locks and dams above Lake Pepin were completed.

2. Aboriginal and treaty rights, which pre-date the project, and the Federal Government's attendant trust responsibilities, requires modification of water control operations from time to time.

LOCK AND DAM NO.1 - MISSISSIPPI RIVER North Central Division
Mississippi River. Hennepin County Minnesota. St. Paul District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
	Recreation	PL 78-534
Navigation	Navigation	RHA 1873

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

LOCK AND DAM NO.2 - MISSISSIPPI RIVER North Central Division
Mississippi River. Dakota and Washington Counties Minnesota. St. Paul District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
	Recreation	PL 78-534
Navigation	Navigation	PL 69-560
Water Quality	Water Quality	PL 92-500

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

LOCK AND DAM NO.3 - MISSISSIPPI RIVER North Central Division
Mississippi River. Goodhue County Minnesota. Pierce County Wisconsin St. Paul District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Navigation	Navigation	PL 71-520
	Recreation	PL 78-534

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

LOCK AND DAM NO.4 - MISSISSIPPI RIVER

Mississippi River. Wabasha County Minnesota. Buffalo County Wisconsin

North Central Division

St. Paul District

Operating Purposes

Navigation

Authorized Purposes

Navigation

Recreation

Authorizing Laws

PL 71-520

PL 78-534

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

LOCK AND DAM NO.5 - MISSISSIPPI RIVER

Mississippi River. Winona County Minnesota. Buffalo County Wisconsin

North Central Division

St. Paul District

Operating Purposes

Navigation

Authorized Purposes

Navigation

Recreation

Authorizing Laws

PL 71-520

PL 78-534

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

LOCK AND DAM NO.5A - MISSISSIPPI RIVER

Mississippi River. Winona County Minnesota. Buffalo County Wisconsin

North Central Division

St. Paul District

Operating Purposes

Navigation

Authorized Purposes

Recreation

Navigation

Authorizing Laws

PL 78-534

PL 71-520

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

LOCK AND DAM NO.6 - MISSISSIPPI RIVER

Mississippi River. Winona County Minnesota. Trempealeau County Wisconsin

North Central Division

St. Paul District

Operating Purposes

Navigation

Authorized Purposes

Navigation

Recreation

Authorizing Laws

PL 71-520

PL 78-534

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

Operating Purposes

Navigation

Authorized Purposes

Navigation

Recreation

Authorizing Laws

PL 71-520

PL 78-534

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

LOCK AND DAM NO. 8 - MISSISSIPPI RIVER

Mississippi River. Houston County Minnesota. Vernon County Wisconsin

North Central Division

St. Paul District

Operating Purposes

Navigation

Authorized Purposes

Navigation

Recreation

Authorizing Laws

PL 71-520

PL 78-534

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

LOCK AND DAM NO. 9 - MISSISSIPPI RIVER

Mississippi River. Crawford County Wisconsin. Allamakee County Iowa

North Central Division

St. Paul District

Operating Purposes

Navigation

Authorized Purposes

Navigation

Recreation

Authorizing Laws

PL 71-520

PL 78-534

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

LOCK AND DAM NO. 10 - MISSISSIPPI RIVER

Mississippi River. Clayton County Iowa. Grant County Wisconsin

North Central Division

St. Paul District

Operating Purposes

Navigation

Authorized Purposes

Navigation

Recreation

Authorizing Laws

PL 71-520

PL 78-534

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

Otter Tail River. Otter Tail County Minnesota.

North Central Division
St. Paul DistrictOperating Purposes

Water Supply

Fish/Wildlife

Flood Control

Authorized Purposes

Water Supply

Recreation

Fish/Wildlife

Flood Control

Authorizing Laws

PL 81-516

PL 78-534

PL 85-624

PL 61-516

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

PINE RIVER DAM (CROSS LAKE)

Pine River. Crow Wing County Minnesota.

North Central Division

St. Paul District

Operating Purposes

Fish/Wildlife

Flood Control

Water Quality

Water Supply

Recreation

Authorized Purposes

Fish/Wildlife

Flood Control

Navigation

Water Quality

Water Supply

Recreation

Authorizing Laws

PL 85-824

PL 78-534

RHA 1880

PL 92-500

PL 85-500

PL 78-534

1. The need to regulate this project for navigation was eliminated once the Mississippi River locks and dams above Lake Pepin were completed.

POKEGAMA DAM

Mississippi River. Itasca County Minnesota.

North Central Division

St. Paul District

Operating Purposes

Recreation

Fish/Wildlife

Water Supply

Water Quality

Flood Control

Authorized Purposes

Recreation

Navigation

Fish/Wildlife

Water Supply

Water Quality

Flood Control

Authorizing Laws

PL 78-534

RHA 1880

PL 85-824

PL 85-500

PL 92-500

PL 78-534

1. The need to regulate this project for navigation was eliminated once the Mississippi River locks and dams above Lake Pepin were completed.

RED LAKE RIVER

Red Lake River. Clearwater County Minnesota.

North Central Division

St. Paul District

Operating Purposes

Flood Control

Water Conservation

Authorized Purposes

Flood Control

Water Conservation

Authorizing Laws

PL 78-534

PL 78-534

SANDY LAKE DAM

Sandy River. Aitkin County Minnesota.

North Central Division

St. Paul District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Water Quality	Water Quality	PL 92-500
	Navigation	RHA 1880
Flood Control	Flood Control	PL 78-534
Water Supply	Water Supply	PL 85-500
Indian Tribal Rights		
Recreation	Recreation	PL 78-534
Fish/Wildlife	Fish/Wildlife	PL 85-624

1. The need to regulate this project for navigation was eliminated once the Mississippi River locks and dams above Lake Pepin were completed.

2. Aboriginal and treaty rights, which pre-date the project, and the Federal Government's attendant trust responsibilities, requires modification of water control operations from time to time.

ST. ANTHONY FALLS LOWER LOCK AND DAM

Mississippi River. Hennepin County Minnesota.

North Central Division

St. Paul District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Navigation	Navigation	PL 75-392
	Recreation	PL 78-534

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

ST. ANTHONY FALLS UPPER LOCK AND DAM

Mississippi River. Hennepin County Minnesota.

North Central Division

St. Paul District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Navigation	Navigation	PL 75-392
	Recreation	PL 78-534

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

WINNIBIGOSHISH DAM

Mississippi River. Itasca County Minnesota.

North Central Division

St. Paul District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Water Supply	Water Supply	PL 85-500
Flood Control	Flood Control	PL 78-534
Recreation	Recreation	PL 78-534
Indian Tribal Rights		
Water Quality	Water Quality	PL 92-500
Fish/Wildlife	Fish/Wildlife	PL 85-624
	Navigation	RHA 1880

(continued)

WINNIBICOSH DAM (continued)

1. The need to regulate this project for navigation was eliminated once the Mississippi River locks and dams above Lake Pepin were completed.
2. Aboriginal and treaty rights, which pre-date the project, and the Federal Government's attendant trust responsibilities requires modification of water control operation from time to time.

BALL MOUNTAIN LAKE

New England Division

West River. Windham County Vermont.

Operating PurposesFlood Control
RecreationAuthorized PurposesFlood Control
RecreationAuthorizing LawsPL 78-534, PL 83-780
PL 78-534**BARRE FALLS DAM**

New England Division

Ware River. Worcester County Massachusetts.

Operating Purposes

Flood Control

Authorized PurposesFlood Control
RecreationAuthorizing LawsPL 77-228
PL 78-534

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

BIRCH HILL DAM

New England Division

Millers River. Worcester County Massachusetts.

Operating Purposes

Flood Control

Authorized PurposesFlood Control
RecreationAuthorizing LawsPL 74-738, PL 75-761
PL 78-534

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

BLACK ROCK LAKE

New England Division

Branch Brook. Litchfield County Connecticut.

Operating PurposesRecreation
Flood ControlAuthorized PurposesRecreation
Flood ControlAuthorizing LawsPL 78-534
PL 88-845**BLACKWATER DAM**

New England Division

Blackwater River. Merrimack County New Hampshire.

Operating Purposes

Flood Control

Authorized PurposesRecreation
Flood ControlAuthorizing LawsPL 78-534
PL 74-738, PL 75-761

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

BUFFUMVILLE LAKE

New England Division

Little River. Worcester County Massachusetts.

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Flood Control	Flood Control	PL 77-228
Recreation	Recreation	PL 78-534

COLEBROOK RIVER LAKE

New England Division

West Branch Farmington River. Litchfield County Connecticut
Tolland, Hampden, Berkshire Counties Massachusetts

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
	Recreation	PL 78-534
Flood Control	Flood Control	PL 86-645
Water Supply	Water Supply	PL 86-645
Fish/Wildlife	Fish/Wildlife	PL 85-624

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

CONANT BROOK DAM

New England Division

Conant Brook. Hampden County Massachusetts.

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
	Recreation	PL 78-534
Flood Control	Flood Control	PL 86-645

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

EAST BRIMFIELD LAKE

New England Division

Quinebaug River. Worcester County Massachusetts.

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Water Supply	Water Supply	PL 78-534
Recreation	Recreation	PL 78-534
Flood Control	Flood Control	PL 77-228

EDWARD MACDOWELL DAM

New England Division

Nubanusit Brook. Cheshire County New Hampshire.

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Recreation	Recreation	PL 78-534
Flood Control	Flood Control	PL 74-738, PL 76-761

Operating Purposes

Recreation
Flood Control

Authorized Purposes

Recreation
Flood Control

Authorizing Laws

PL 78-534
PL 75-761, PL 74-738

FRANKLIN FALLS DAM

New England Division

Pemigewasset River. Grafton and Belknap Counties New Hampshire.

Operating Purposes

Flood Control

Authorized Purposes

Recreation
Flood Control

Authorizing Laws

PL 78-534
PL 74-738, PL 75-761

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

HANCOCK BROOK LAKE

New England Division

Hancock Brook. Litchfield County Connecticut.

Operating Purposes

Recreation
Flood Control

Authorized Purposes

Recreation
Flood Control

Authorizing Laws

PL 78-534
PL 88-845

HODGES VILLAGE DAM

New England Division

French River. Worcester County Massachusetts.

Operating Purposes

Flood Control

Authorized Purposes

Flood Control
Recreation

Authorizing Laws

PL 77-228
PL 78-534

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

HOP BROOK LAKE

New England Division

Hop Brook. New Haven County Connecticut.

Operating Purposes

Recreation
Flood Control

Authorized Purposes

Recreation
Flood Control

Authorizing Laws

PL 78-534
PL 88-845

HOPKINTON LAKE

New England Division

Contoocook River. Merrimack County New Hampshire.

Operating Purposes

Recreation
Flood Control

Authorized Purposes

Recreation
Flood Control

Authorizing Laws

PL 78-534
PL 75-761, PL 74-738

KNIGHTTILE DAM
Westfield River. Hampshire County Massachusetts.

New England Division

Operating Purposes

Flood Control

Authorized Purposes

Flood Control
Recreation

Authorizing Laws

PL 74-738, PL 75-761
PL 78-534

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

LITTLEVILLE LAKE

New England Division

Middle Branch Westfield River. Hampshire County Massachusetts.

Operating Purposes

Flood Control
Water Supply

Authorized Purposes

Recreation
Flood Control
Water Supply

Authorizing Laws

PL 78-534
PL 85-500
PL 85-500

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

MANSFIELD HOLLOW LAKE

New England Division

Natchaug River. Tolland and Windham Counties Connecticut.

Operating Purposes

Flood Control
Recreation

Authorized Purposes

Flood Control
Recreation

Authorizing Laws

PL 77-228
PL 78-534

NORTH HARTLAND LAKE

New England Division

Ottaquechee River. Windsor County Vermont.

Operating Purposes

Flood Control
Recreation
Hydroelectric Power

Authorized Purposes

Flood Control
Recreation

Authorizing Laws

PL 75-761, PL 77-228
PL 78-534

1. Water is regulated for the non-Federally owned hydroelectric generating plant constructed under FERC license number 2816-001.

NORTH SPRINGFIELD LAKE

New England Division

Black River. Windsor County Vermont.

Operating Purposes

Flood Control
Recreation

Authorized Purposes

Flood Control
Recreation

Authorizing Laws

PL 75-761, PL 77-228
PL 78-534

Northfield Brook. Litchfield County Connecticut.

Operating PurposesRecreation
Flood ControlAuthorized PurposesRecreation
Flood ControlAuthorizing LawsPL 78-534
PL 86-645

OTTER BROOK LAKE

New England Division

Otter Brook. Cheshire County New Hampshire.

Operating PurposesFlood Control
RecreationAuthorized PurposesFlood Control
RecreationAuthorizing LawsPL 83-780
PL 78-534

SURREY MOUNTAIN LAKE

New England Division

Ashuelot River. Cheshire County New Hampshire.

Operating PurposesFlood Control
RecreationAuthorized PurposesFlood Control
RecreationAuthorizing LawsPL 74-738, PL 75-761
PL 78-534

THOMASTON DAM

New England Division

Naugatuck River. Litchfield County Connecticut.

Operating Purposes

Flood Control

Authorized PurposesRecreation
Flood ControlAuthorizing LawsPL 78-534
PL 78-534

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

TOWNSHEND LAKE

New England Division

West River. Windham County Vermont.

Operating PurposesFlood Control
RecreationAuthorized PurposesFlood Control
RecreationAuthorizing LawsPL 78-534, PL 83-780
PL 78-534

TULLY LAKE

New England Division

East Branch Tully Lake. Worcester County Massachusetts.

Operating PurposesFlood Control
RecreationAuthorized PurposesFlood Control
RecreationAuthorizing LawsPL 74-738, PL 75-761
PL 78-534

Operating Purposes

Flood Control

Authorized Purposes

Flood Control

Recreation

Authorizing Laws

PL 74-738, PL 75-761

PL 78-534

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

WEST HILL DAM

New England Division

West River. Worcester County Massachusetts.

Operating Purposes

Flood Control

Authorized Purposes

Flood Control

Recreation

Authorizing Laws

PL 78-534

PL 78-534

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

WEST THOMPSON LAKE

New England Division

Quinebaug River. Windham County Connecticut.

Operating Purposes

Flood Control

Recreation

Authorized Purposes

Flood Control

Recreation

Authorizing Laws

PL 86-645

PL 78-534

WESTVILLE LAKE

New England Division

Quinebaug River. Worcester County Massachusetts.

Operating Purposes

Flood Control

Recreation

Authorized Purposes

Flood Control

Recreation

Authorizing Laws

PL 77-228

PL 78-534

CHENA RIVER LAKESNorth Pacific Division
Alaska District

Chena River. North Star Borough County Alaska.

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Recreation	Recreation	PL 90-483
Fish/Wildlife	Fish/Wildlife	PL 90-483
Flood Control	Flood Control	PL 90-483

APPLEGATE LAKENorth Pacific Division
Portland District

Applegate River. Jackson County Oregon.

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Flood Control	Flood Control	PL 87-874
Fish/Wildlife	Fish/Wildlife	PL 87-874
Water Quality	Water Quality	PL 87-874
Recreation	Recreation	PL 87-874
Irrigation	Irrigation	PL 87-874, PL 93-251

BIG CLIFF DAMNorth Pacific Division
Portland District

North Santiam River. Marion and Linn Counties Oregon.

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Hydroelectric Power	Hydroelectric Power	PL 80-858
Reregulation	Reregulation	PL 80-858

1. Part of the Detroit Lake project; it reregulates the discharges from Detroit Reservoir.

BLUE RIVER LAKENorth Pacific Division
Portland District

Blue River. Lane County Oregon.

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
	Navigation	PL 81-516
Flood Control	Flood Control	PL 81-516
	Hydroelectric Power	PL 99-682
Recreation	Recreation	PL 78-534
Water Quality	Water Quality	PL 81-516
Irrigation	Irrigation	PL 81-516
Fish/Wildlife	Fish/Wildlife	PL 81-516

1. Federal development of hydropower has been held in abeyance because the Eugene Water and Electric Board has sought to develop hydropower at the project under a license from the Federal Energy Regulatory Commission (FERC).
2. The upper river above Willamette Falls Locks is no longer utilized for commercial navigation.

BONNEVILLE LOCK AND DAM

North Pacific Division

Columbia River. Multnomah County Oregon. Skamania County
Washington

Portland District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Hydroelectric Power	Hydroelectric Power	PL 75-329
Recreation	Recreation	PL 78-534
Navigation	Navigation	PL 75-329
Water Quality	Water Quality	PL 92-500
Fish/Wildlife	Fish/Wildlife	PL 85-624, PL 98-396

1. Project originally authorized by the Federal Emergency Administration of Public Works on 30 Sep 1933. Authorized by Congress on 30 Aug 1935 (Senate Committee Print, 73rd Congress, Second Session). PL 75-329 authorized the completion, operation and maintenance of the project by the Department of Defense on 20 Aug 1937.

COTTAGE GROVE LAKE

North Pacific Division

Coast Fork, Willamette River. Lane County Oregon.

Portland District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Flood Control	Navigation	PL 75-761
Irrigation	Flood Control	PL 75-761
Fish/Wildlife	Irrigation	PL 81-516
Water Quality	Fish/Wildlife	PL 81-516
Recreation	Water Quality	PL 81-516
	Recreation	PL 78-534

1. The upper river above Willamette Falls Locks is no longer utilized by commercial navigation.

COUGAR LAKE

North Pacific Division

South Fork, McKenzie River. Lane County Oregon.

Portland District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Irrigation	Navigation	PL 81-516
Hydroelectric Power	Irrigation	PL 81-516
Flood Control	Hydroelectric Power	PL 81-516, PL 83-780
Fish/Wildlife	Flood Control	PL 81-516
Water Quality	Fish/Wildlife	PL 81-516
Recreation	Water Quality	PL 81-516
	Recreation	PL 78-534

1. The upper river above Willamette Falls Locks is no longer utilized by commercial navigation.

DETROIT LAKE

North Pacific Division

North Santiam River. Marion County Oregon.

Portland District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Flood Control	Flood Control	PL 75-761
Irrigation	Irrigation	PL 75-761
Hydroelectric Power	Hydroelectric Power	PL 60-658
Recreation	Recreation	PL 78-534
	Navigation	PL 75-761
Fish/Wildlife	Fish/Wildlife	PL 61-516
Water Quality	Water Quality	PL 81-516

1. The upper river above Willamette Falls Locks is no longer utilized by commercial navigation.

DEXTER DAM

North Pacific Division

Middle Fork, Willamette River. Lane County Oregon.

Portland District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Hydroelectric Power	Hydroelectric Power	PL 81-516
Reregulation	Reregulation	PL 81-516
Recreation	Recreation	PL 78-534

1. Part of the Lookout Point Project and reregulates the discharges from Lookout Point Dam.

DORENA LAKE

North Pacific Division

Row River. Lane County Oregon.

Portland District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Flood Control	Flood Control	PL 75-761
Recreation	Recreation	PL 78-534
	Navigation	PL 75-761
Water Quality	Water Quality	PL 61-516
Irrigation	Irrigation	PL 61-516
Fish/Wildlife	Fish/Wildlife	PL 61-516

1. The upper river above Willamette Falls Locks is no longer utilized by commercial navigation.

FALL CREEK LAKE

North Pacific Division

Fall Creek. Lane County Oregon.

Portland District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Flood Control	Flood Control	PL 81-516
Irrigation	Irrigation	PL 81-516
Recreation	Recreation	PL 78-534
Fish/Wildlife	Fish/Wildlife	PL 81-516
	Navigation	PL 81-516
Water Quality	Water Quality	PL 81-516

(continued)

1. The upper river above Willamette Falls Locke is no longer utilized by commercial navigation.

FERN RIDGE LAKE

Long Tom River. Lane County Oregon.

North Pacific Division
Portland District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Flood Control	Flood Control	PL 75-761, PL 87-874
Recreation	Recreation	PL 78-534
	Navigation	PL 75-761
Fish/Wildlife	Fish/Wildlife	PL 81-518
Water Quality	Water Quality	PL 81-518
Irrigation	Irrigation	PL 81-518

1. The upper river above Willamette Falls Locke is no longer utilized by commercial navigation.

FOSTER DAM

South Santiam River. Linn County Oregon.

North Pacific Division
Portland District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Reregulation	Reregulation	PL 86-645
Hydroelectric Power	Hydroelectric Power	PL 86-645
Irrigation	Irrigation	PL 86-845
	Navigation	PL 86-645
Recreation	Recreation	PL 78-534
Fish/Wildlife	Fish/Wildlife	PL 81-518
Water Quality	Water Quality	PL 81-518
Flood Control	Flood Control	PL 86-645

1. The upper river above Willamette Falls Locks is no longer utilized by commercial navigation.
2. Reregulates the discharge from Green Peter Dam.

GREEN PETER LAKE

Middle Fork, Santiam River. Linn County Oregon.

North Pacific Division
Portland District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Flood Control	Flood Control	PL 81-518
Irrigation	Irrigation	PL 81-518
Hydroelectric Power	Hydroelectric Power	PL 81-518, PL 83-780
Recreation	Recreation	PL 78-534
Fish/Wildlife	Fish/Wildlife	PL 81-518
Water Quality	Water Quality	PL 81-518
	Navigation	PL 81-518

1. The upper river above Willamette Falls Locks is no longer utilized by commercial navigation.

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Flood Control	Navigation	PL 81-516
Hydroelectric Power	Flood Control	PL 81-516
Recreation	Hydroelectric Power	PL 81-518
Fish/Wildlife	Recreation	PL 78-534
Water Quality	Fish/Wildlife	PL 81-516
Irrigation	Water Quality	PL 81-516
	Irrigation	PL 81-516

1. The upper river above Willamette Falls Locks is no longer utilized by commercial navigation.

JOHN DAY LOCK AND DAM - LAKE UMATILLA North Pacific Division
 Columbia River. Sherman County Oregon. Klickitat County Portland District
 Washington

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Flood Control	Flood Control	PL 81-518
Irrigation	Irrigation	PL 81-516
Navigation	Navigation	PL 81-516
Recreation	Recreation	PL 78-534
Fish/Wildlife	Fish/Wildlife	PL 81-516
Water Quality	Water Quality	PL 61-516, PL 92-500
Hydroelectric Power	Hydroelectric Power	PL 81-516

LOOKOUT POINT LAKE North Pacific Division
 Middle Fork, Willamette River. Lane County Oregon. Portland District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Hydroelectric Power	Navigation	PL 78-781
Recreation	Hydroelectric Power	PL 61-516
Flood Control	Recreation	PL 78-534
Fish/Wildlife	Flood Control	PL 78-781
Water Quality	Fish/Wildlife	PL 81-516
Irrigation	Water Quality	PL 81-516
	Irrigation	PL 81-516

1. The upper river above Willamette Falls Locks is no longer utilized by commercial navigation.

LOST CREEK LAKE
Rogue River. Jackson County Oregon.

North Pacific Division
Portland District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Flood Control	Flood Control	PL 87-874
Fish/Wildlife	Fish/Wildlife	PL 87-874
Water Quality	Water Quality	PL 87-874
Recreation	Recreation	PL 87-874
Irrigation	Irrigation	PL 87-874, PL 89-888
Water Supply	Water Supply	PL 87-874, PL 85-500
Hydroelectric Power	Hydroelectric Power	PL 87-874

THE DALLES LOCK AND DAM - LAKE CELILO
Columbia River. Wasco County Oregon. Klickitat County
Washington

North Pacific Division
Portland District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Irrigation	Irrigation	PL 81-518
Navigation	Navigation	PL 81-518
Recreation	Recreation	PL 78-534
Fish/Wildlife	Fish/Wildlife	PL 85-824, PL 98-396
Water Quality	Water Quality	PL 81-518, PL 92-500
Hydroelectric Power	Hydroelectric Power	PL 81-518

WILLOW CREEK LAKE
Willow Creek. Morrow County Oregon.

North Pacific Division
Portland District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
	Irrigation	PL 88-298
Water Quality	Water Quality	PL 89-298
Sports Fishing/Wildlife	Sports Fishing/Wildlife	PL 88-298
	Water Supply	PL 89-298, PL 85-500
Recreation	Recreation	PL 76-534
Flood Control	Flood Control	PL 89-298

1. Demands for irrigation and municipal and industrial water supply has not developed.

ALBENI FALLS DAM
Pend Oreille River. Bonner County Idaho.

North Pacific Division
Seattle District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Recreation	Recreation	PL 78-534
Navigation	Navigation	PL 81-518
Hydroelectric Power	Hydroelectric Power	PL 81-518
Flood Control	Flood Control	PL 81-518

CHIEF JOSEPH DAM - RUFUS WOODS LAKE
Columbia River. Douglas and Okanogan Counties Washington.

North Pacific Division
Seattle District

Operating Purposes

Hydroelectric Power

Authorized Purposes

Hydroelectric Power
Recreation

Authorizing Laws

PL 79-528
PL 78-534

1. Chief Joseph Additional Units Project was authorized by PL 94-587 and PL 95-26.
2. Access and facilities are provided for recreation but water is not controlled for that purpose.

HOWARD A. HANSON DAM
Green River. King and Pierce Counties Washington.

North Pacific Division
Seattle District

Operating Purposes

Flood Control
Fish/Wildlife

Authorized Purposes

Flood Control
Fish/Wildlife
Water Supply
Recreation
Water Quality
Irrigation

Authorizing Laws

PL 81-516
PL 81-516
PL 81-516
PL 78-534
PL 81-516
PL 81-516

1. Water quality (called pollution abatement in PL 81-516) benefits are derived from the flows released for fish and wildlife.
2. Originally planned water supply needs did not develop. A study of current water supply needs that could be served by the project is underway.
3. Irrigation water supply on the scale originally planned did not develop. Irrigators draw water from the river downstream from the dam.

LIBBY DAM - LAKE KOOCANUSA
Kootenai River. Lincoln County Montana.

North Pacific Division
Seattle District

Operating Purposes

Recreation
Hydroelectric Power
Flood Control

Authorized Purposes

Recreation
Hydroelectric Power
Flood Control

Authorizing Laws

PL 78-534
PL 81-518
PL 81-516

MUD MOUNTAIN DAM
White River. King, Pierce Counties Washington.

North Pacific Division
Seattle District

Operating Purposes

Flood Control

Authorized Purposes

Recreation
Flood Control

Authorizing Laws

PL 78-534
PL 74-738

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

WYNOCHEE LAKE

North Pacific Division

Wynoochee River. Grays Harbor County Washington.

Seattle District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Flood Control	Flood Control	PL 87-874
Water Supply	Water Supply	PL 87-874
Fish/Wildlife	Fish/Wildlife	PL 87-874
	Irrigation	PL 87-874
Recreation	Recreation	PL 78-534

1. Transfer of operation, maintenance, repair and rehabilitation to the city of Aberdeen, Washington was authorized by PL 100-876. Non-Federal hydropower development of Wynoochee Dam by the cities of Tacoma and Aberdeen under Federal Energy Regulatory Commission License No. 6842 is currently in the design phase. Transfer of fee title to the city of Aberdeen, which is authorized by PL 101-640, is in the negotiation stage.

2. Federal hydropower was authorized in the original authorization (PL 87-874) subject to additional economic studies. Post-authorization studies by the Seattle District, USACE, showed hydropower to be uneconomical.

3. The demand for irrigation water supply as originally planned has not materialized.

DWORSHAK DAM AND RESERVOIR

North Pacific Division

North Fork of the Clearwater River. Clearwater County Idaho.

Walla Walla District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Fish/Wildlife	Fish/Wildlife	PL 87-874, PL 85-824
Hydroelectric Power	Hydroelectric Power	PL 87-874
Navigation	Navigation	PL 87-874
Recreation	Recreation	PL 78-534
Flood Control	Flood Control	PL 65-500, PL 87-874

ICE HARBOR LOCK AND DAM - LAKE SACAJAWEA

North Pacific Division

Snake River. Walla Walla and Franklin Counties Washington.

Walla Walla District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Navigation	Navigation	PL 79-14
Irrigation	Irrigation	PL 79-14
Recreation	Recreation	PL 78-534
Hydroelectric Power	Hydroelectric Power	PL 79-14
Fish/Wildlife	Fish/Wildlife	PL 85-624

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Fish/Wildlife	Fish/Wildlife	PL 85-824
Irrigation	Irrigation	PL 79-14
Navigation	Navigation	PL 79-14
Hydroelectric Power	Hydroelectric Power	PL 79-14
Recreation	Recreation	PL 78-534

LOWER GRANITE LOCK AND DAM North Pacific Division
 Snake River. Whitman and Garfield Counties Washington. Walla Walla District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Navigation	Navigation	PL 79-14
Hydroelectric Power	Hydroelectric Power	PL 79-14
Recreation	Recreation	PL 78-534
Fish/Wildlife	Fish/Wildlife	PL 85-824
Irrigation	Irrigation	PL 79-14

LOWER MONUMENTAL LOCK AND DAM - LAKE HERBERT G. WEST North Pacific Division
 Snake River. Walla Walla and Franklin Counties Washington. Walla Walla District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Fish/Wildlife	Fish/Wildlife	PL 85-824
Irrigation	Irrigation	PL 79-14
Recreation	Recreation	PL 78-534
Hydroelectric Power	Hydroelectric Power	PL 79-14
Navigation	Navigation	PL 79-14

LUCKY PEAK LAKE North Pacific Division
 Boise River. Ada County Idaho. Walla Walla District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Flood Control	Flood Control	PL 79-528
Irrigation	Irrigation	PL 79-528
Recreation	Recreation	PL 78-534
Fish/Wildlife	Fish/Wildlife	PL 85-824
Streamflow Maintenance	Streamflow Maintenance	PL 94-587

1. Streamflow maintenance involves the making of minimum winter flow releases for the benefit of downstream fish and wildlife.

2. Under a Memorandum of Understanding with the U. S. Bureau of Reclamation (USBR), Lucky Peak is regulated for flood control and irrigation as one element of a three project system, the other two being USBR's Anderson Ranch and Arrowrook reservoirs.

MCNARY LOCK AND DAM - LAKE WALLULA

Columbia River. Umatilla County Oregon. Benton County
Washington

North Pacific Division

Walla Walla District

Operating Purposes

Hydroelectric Power
Navigation
Irrigation
Recreation
Fish/Wildlife

Authorized Purposes

Hydroelectric Power
Navigation
Irrigation
Recreation
Fish/Wildlife

Authorizing Laws

PL 78-14, PL 89-662
PL 78-14
PL 78-14
PL 78-534
PL 85-624

VIRGIL B. BENNINGTON LAKE

Mill Creek. Walla Walla County Washington.

North Pacific Division

Walla Walla District

Operating Purposes

Flood Control
Recreation

Authorized Purposes

Flood Control
Recreation

Authorizing Laws

PL 75-761
PL 78-534

ALUM CREEK LAKE

Alum Creek. Delaware County Ohio.

Ohio River Division
Huntington District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Water Supply	Water Supply	PL 87-874
Fish/Wildlife	Fish/Wildlife	PL 87-874
Flood Control	Flood Control	PL 87-874
Recreation	Recreation	PL 87-874

ATWOOD LAKE

Indian Fork of Conotton Creek of Tuscarawas River. Tuscarawas County Ohio.

Ohio River Division
Huntington District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Fish/Wildlife	Water Conservation	PL 76-398, PL 73-87
Recreation	Recreation	PL 76-398, PL 73-87
Flood Control	Flood Control	PL 76-398, PL 73-87

1. Water Conservation - As per the "Official Plan for the Muskingum Watershed Conservancy District," dated 8 Oct 34 and subsequently revised 15 April 35 and 5 Jun 35, conservation storage is to be withdrawn during periods of low flow for purpose of water supply, groundwater recharge, industrial uses, dilution of pollution, promotion of fish life and various other purposes (Vol I, p. 7).

BEACH CITY LAKE

Sugar Creek of Tuscarawas River. Tuscarawas County Ohio.

Ohio River Division
Huntington District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Fish/Wildlife	Water Conservation	PL 76-398, PL 73-87
Recreation	Recreation	PL 76-398, PL 73-87
Flood Control	Flood Control	PL 76-398, PL 73-87

1. Water Conservation - As per the "Official Plan for the Muskingum Watershed Conservancy District," dated 8 Oct 34 and subsequently revised 15 April 35 and 5 Jun 35, conservation storage is to be withdrawn during periods of low flow for purpose of water supply, groundwater recharge, industrial uses, dilution of pollution, promotion of fish life and various other purposes (Vol I, p. 7).

BEECH FORK LAKE

Beech Fork. Wayne County West Virginia.

Ohio River Division
Huntington District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Recreation	Recreation	PL 87-874, PL 100-676
Flood Control	Flood Control	PL 67-674

1. PL 100-676 authorized whitewater recreation and recreation enhancement. The project is not operated for these purposes because the need has not been identified.

BELLEVIEW LOCKS AND DAM Ohio River. Wood County West Virginia. Meigs County Ohio Ohio River Division
Huntington District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Fish/Wildlife	Fish/Wildlife	PL 86-824
Recreation	Recreation	PL 78-534
Navigation	Navigation	PL 80-317

BLUESTONE LAKE Ohio River Division
New River. Summers County West Virginia. Huntington District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Flood Control	Flood Control	PL 74-738, PL 75-761
	Hydroelectric Power	PL 74-738, PL 75-761
Recreation	Recreation	PL 78-534, PL 100-876
Low Flow Augmentation	Low Flow Augmentation	PL 74-738, PL 75-761
Fish/Wildlife	Fish/Wildlife	PL 74-738

1. The project purposes were originally set forth in Executive Order 7183, 12 September 1935.
2. Limited facilities were constructed to accomodate subsequent hydropower development which as yet has not materialized. Studies are proposed, but not yet funded, to identify potential whitewater recreation for future implementation of PL 100-876. Recreation enhancement is also a newly authorized purpose for which a need has not been identified.

BOLIVAR DAM Ohio River Division
Sandy Creek of Tuscarawas River. Stark and Tuscarawas Counties Ohio. Huntington District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Flood Control	Flood Control	PL 78-398, PL 73-87

BURNEVILLE LAKE Ohio River Division
Little Kanawha River. Braxton County West Virginia. Huntington District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Recreation	Recreation	PL 78-534
	Low Flow Augmentation	PL 75-761
Flood Control	Flood Control	PL 75-761
Water Quality	Water Quality	PL 87-88

1. Burnesville Lake was intended to be part of a system of reservoirs that would meet low flow requirements. Since that system has not been constructed, Burnesville Lake alone cannot meet the low flow augmentation needs and thus is not regulated for that purpose.

Operating PurposesFlood Control
Recreation
Fish/WildlifeAuthorized PurposesFlood Control
Recreation
Water ConservationAuthorizing LawsPL 76-396, PL 73-67
PL 76-396, PL 73-67
PL 76-396, PL 73-67

1. Water Conservation - As per the "Official Plan for the Muskingum Watershed Conservancy District," dated 8 Oct 34 and subsequently revised 15 Apr 35 and 5 Jun 35, conservation storage is to be withdrawn during periods of low flow for purpose of water supply, groundwater recharge, industrial uses, dilution of pollution, promotion of fish life and various other purposes (Vol I, p. 7).

GLENDENING LAKE

Brushy Fork of Stillwater Creek. Harrison County Ohio.

Ohio River Division
Huntington DistrictOperating PurposesFish/Wildlife
Recreation
Flood ControlAuthorized PurposesWater Conservation
Recreation
Flood ControlAuthorizing LawsPL 76-396, PL 73-67
PL 76-396, PL 73-67
PL 76-396, PL 73-67

1. Water Conservation - As per the "Official Plan for the Muskingum Watershed Conservancy District," dated 8 Oct 34 and subsequently revised 15 Apr 35 and 5 Jun 35, conservation storage is to be withdrawn during periods of low flow for purpose of water supply, groundwater recharge, industrial uses, dilution of pollution, promotion of fish life and various other purposes (Vol I, p. 7).

CPT. ANTHONY MELDAHL LOCKS AND DAM

Ohio River. Bracken County Kentucky. Clermont County Ohio

Ohio River Division
Huntington DistrictOperating PurposesFish/Wildlife
Recreation
NavigationAuthorized PurposesFish/Wildlife
Recreation
NavigationAuthorizing LawsPL 85-624
PL 78-534
PL 60-317

DEER CREEK LAKE

Deer Creek. Pickaway County Ohio.

Ohio River Division
Huntington DistrictOperating PurposesFlood Control
Low Flow Augmentation
Recreation
Fish/WildlifeAuthorized PurposesFlood Control
Low Flow Augmentation
Recreation
Fish/WildlifeAuthorizing LawsPL 75-781
PL 75-781
PL 78-534
PL 85-624

DELAWARE LAKE

Olen tangy River, Delaware County Ohio.

Ohio River Division

Huntington District

Operating Purposes

Flood Control
 Low Flow Augmentation
 Recreation

Authorized Purposes

Flood Control
 Low Flow Augmentation
 Recreation

Authorizing Laws

PL 75-761
 PL 75-761
 PL 78-534

DEWEY LAKE

Johns Creek. Floyd County Kentucky.

Ohio River Division

Huntington District

Operating Purposes

Fish/Wildlife
 Flood Control
 Recreation

Authorized Purposes

Low Flow Augmentation
 Flood Control
 Recreation

Authorizing Laws

PL 75-761
 PL 75-761
 PL 78-534

DILLON LAKE

Licking River. Muskingum County Ohio.

Ohio River Division

Huntington District

Operating Purposes

Flood Control
 Recreation
 Low Flow Augmentation

Authorized Purposes

Flood Control
 Recreation
 Low Flow Augmentation

Authorizing Laws

PL 75-761
 PL 78-534
 PL 75-761

DOVER DAM

Tuscarawas River. Tuscarawas County Ohio.

Ohio River Division

Huntington District

Operating Purposes

Flood Control

Authorized Purposes

Water Conservation
 Flood Control

Authorizing Laws

PL 76-396, PL 73-67
 PL 76-396, PL 73-67

1. Water conservation storage was never incorporated into the project. A small pool, which exists solely because of the physical configuration of the reservoir bottom and which cannot be regulated by the outlet works, serves the purpose of fishery conservation.

EAST LYNN LAKE

Twelvepole Creek. Wayne County West Virginia.

Ohio River Division

Huntington District

Operating Purposes

Water Quality
 Low Flow Augmentation
 Flood Control
 Recreation

Authorized Purposes

Water Quality
 Low Flow Augmentation
 Flood Control
 Recreation

Authorizing Laws

PL 87-88
 PL 75-761
 PL 75-761
 PL 78-534, PL 100-676

1. PL 100-676 authorized whitewater recreation and recreation enhancement. The project is not operated for these purposes because the need has not been identified.

FISHTRAP LAKE

Ohio River Division

Levisa Fork. Pike County Kentucky.

Huntington District

Operating PurposesAuthorized PurposesAuthorizing Laws

Recreation

Recreation

PL 78-534

Low Flow Augmentation

Low Flow Augmentation

PL 75-781

Flood Control

Flood Control

PL 75-781

Fish/Wildlife

Fish/Wildlife

PL 85-624

Water Quality

Water Quality

PL 87-88

ROBERT C. BYRD LOCKS AND DAM

Ohio River Division

Ohio River. Mason County West Virginia. Gallia County Ohio

Huntington District

Operating PurposesAuthorized PurposesAuthorizing Laws

Navigation

Navigation

PL 74-409, PL 73-87

Recreation

Recreation

PL 78-534

Fish/Wildlife

Fish/Wildlife

PL 85-824

GRAYSON LAKE

Ohio River Division

Little Sandy River. Carter County Kentucky.

Huntington District

Operating PurposesAuthorized PurposesAuthorizing Laws

Water Quality

Water Quality

PL 87-88

Recreation

Recreation

PL 86-645

Flood Control

Flood Control

PL 88-645

GREENUP LOCKS AND DAM

Ohio River Division

Ohio River. Greenup County Kentucky. Scioto County Ohio

Huntington District

Operating PurposesAuthorized PurposesAuthorizing Laws

Fish/Wildlife

Fish/Wildlife

PL 85-624

Recreation

Recreation

PL 78-534

Navigation

Navigation

PL 80-317, PL 61-264

JOHN W. FLANNAGAN DAM AND RESERVOIR

Ohio River Division

Pound River. Dickenson County Virginia.

Huntington District

Operating PurposesAuthorized PurposesAuthorizing Laws

Fish/Wildlife

Fish/Wildlife

PL 85-624

Water Supply

Water Supply

PL 85-500

Flood Control

Flood Control

PL 75-761

Low Flow Augmentation

Low Flow Augmentation

PL 75-761

Recreation

Recreation

PL 78-534

Water Quality

Water Quality

PL 87-88

LEESVILLE LAKE

Ohio River Division
Huntington District

Operating Purposes

Fish/Wildlife
Recreation
Flood Control

Authorized Purposes

Water Conservation
Recreation
Flood Control

Authorizing Laws

PL 76-396, PL 73-67
PL 76-396, PL 73-67
PL 76-396, PL 73-67

1. Water Conservation - As per the "Official Plan for the Muskingum Watershed Conservancy District," dated 8 Oct 34 and subsequently revised 15 Apr 35 and 5 Jun 35, conservation storage is to be withdrawn during periods of low flow for purpose of water supply, groundwater recharge, industrial uses, dilution of pollution, promotion of fish life and various other purposes (Vol I, p. 7).

LONDON LOCKS AND DAM

Kanawha River. Kanawha County West Virginia.

Ohio River Division
Huntington District

Operating Purposes

Fish/Wildlife
Recreation
Navigation

Authorized Purposes

Fish/Wildlife
Recreation
Navigation

Authorizing Laws

PL 85-624
PL 78-534
PL 71-520

MARMET LOCKS AND DAM

Kanawha River. Kanawha County West Virginia.

Ohio River Division
Huntington District

Operating Purposes

Navigation
Recreation
Fish/Wildlife

Authorized Purposes

Navigation
Recreation
Fish/Wildlife

Authorizing Laws

PL 71-520
PL 78-534
PL 85-624

MOHAWK DAM

Wahhonding River. Coshocton County Ohio.

Ohio River Division
Huntington District

Operating Purposes

Flood Control

Authorized Purposes

Flood Control

Authorizing Laws

PL 76-396, PL 73-67

MOHICANVILLE DAM

Lake Fork of Mohican River. Ashland County Ohio.

Ohio River Division
Huntington District

Operating Purposes

Flood Control

Authorized Purposes

Flood Control

Authorizing Laws

PL 76-396, PL 73-67

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Fish/Wildlife	Fish/Wildlife	PL 85-624
Recreation	Recreation	PL 78-534, PL 87-874
Flood Control	Flood Control	PL 78-534, PL 87-874

NORTH FORK OF POUND LAKE
North Fork of Pound River. Wise County Virginia. Ohio River Division
Huntington District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Flood Control	Flood Control	PL 88-645
Water Supply	Water Supply	PL 85-500
Fish/Wildlife	Fish/Wildlife	PL 85-624
Recreation	Recreation	PL 86-645, PL 85-624

PAINT CREEK LAKE
Paint Creek. Ross County Ohio. Ohio River Division
Huntington District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Water Quality	Water Quality	PL 87-88
Water Supply	Water Supply	PL 85-500
Flood Control	Flood Control	PL 75-761
Low Flow Augmentation	Low Flow Augmentation	PL 75-761
Recreation	Recreation	PL 78-534

PAINTSVILLE LAKE
Paint Creek. Johnson County Kentucky. Ohio River Division
Huntington District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Flood Control	Flood Control	PL 89-298
Recreation	Recreation	PL 89-298
Water Quality	Water Quality	PL 89-298

PIEDMONT LAKE
Stillwater Creek of Tuscarawas River. Harrison County Ohio. Ohio River Division
Huntington District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Recreation	Recreation	PL 76-396, PL 73-67
Fish/Wildlife	Water Conservation	PL 76-396, PL 73-67
Flood Control	Flood Control	PL 76-396, PL 73-67

1. Water Conservation - As per the "Official Plan for the Muskingum Watershed Conservancy District," dated 8 Oct 34 and subsequently revised 15 Apr 35 and 5 Jun 35, conservation storage is to be withdrawn during periods of low flow for purpose of water supply, groundwater recharge, industrial uses, dilution of pollution, promotion of fish life and various other purposes (Vol I, p. 7).

PLEASANT HILL LAKE

Clear Fork of Mohican River. Ashland County Ohio.

Ohio River Division

Huntington District

Operating Purposes

Flood Control
Fish/Wildlife
Recreation

Authorized Purposes

Flood Control
Water Conservation
Recreation

Authorizing Laws

PL 76-396, PL 73-67
PL 76-396, PL 73-67
PL 76-396, PL 73-67

1. Water Conservation - As per the "Official Plan for the Muskingum Watershed Conservancy District," dated 6 Oct 34 and subsequently revised 15 Apr 35 and 5 Jun 35, conservation storage is to be withdrawn during periods of low flow for purpose of water supply, groundwater recharge, industrial uses, dilution of pollution, promotion of fish life and various other purposes (Vol I, p. 7).

R.D. BAILEY LAKE

Guyandotte River. Mingo and Wyoming Counties West Virginia.

Ohio River Division

Huntington District

Operating Purposes

Water Quality
Recreation
Flood Control

Authorized Purposes

Water Quality
Recreation
Flood Control

Authorizing Laws

PL 87-874
PL 87-874, PL 100-676
PL 87-874

1. PL 100-676 authorized whitewater recreation and recreation enhancement. The project is not operated for these purposes because the need has not been identified.

RACINE LOCKS AND DAM

Ohio River. Mason County West Virginia. Meigs County Ohio

Ohio River Division

Huntington District

Operating Purposes

Fish/Wildlife
Navigation
Recreation

Authorized Purposes

Fish/Wildlife
Navigation
Recreation

Authorizing Laws

PL 85-624
PL 60-317, PL 61-264
PL 78-534

SENECAVILLE LAKE

Seneca Fork of Wills Creek. Guernsey County Ohio.

Ohio River Division

Huntington District

Operating Purposes

Flood Control
Recreation
Fish/Wildlife

Authorized Purposes

Flood Control
Recreation
Water Conservation

Authorizing Laws

PL 76-396, PL 73-67
PL 76-396, PL 73-67
PL 76-396, PL 73-67

1. Water Conservation - As per the "Official Plan for the Muskingum Watershed Conservancy District," dated 8 Oct 34 and subsequently revised 15 Apr 35 and 5 Jun 35, conservation storage is to be withdrawn during periods of low flow for purpose of water supply, groundwater recharge, industrial uses, dilution of pollution, promotion of fish life and various other purposes (Vol I, p. 7).

SUMMERSVILLE LAKE

Gauley River. Nicholas County West Virginia.

Ohio River Division

Huntington District

Case 4:14-cv-00139-HLM Document 39-9 Filed 11/16/15 Page 125 of 368

Operating Purposes

Flood Control
 Low Flow Augmentation
 Water Quality
 Fish/Wildlife
 Recreation

Authorized Purposes

Flood Control
 Low Flow Augmentation
 Water Quality
 Fish/Wildlife
 Recreation

Authorizing Laws

PL 75-761
 PL 75-761
 PL 87-88
 PL 79-732
 PL 78-534, PL 99-662, PL 100-676

1. PL 100-676 authorized whitewater recreation and recreation enhancement. The project is not operated for these purposes because the need has not been identified.

SUTTON LAKE

Elk River. Braxton County West Virginia.

Ohio River Division

Huntington District

Operating Purposes

Low Flow Augmentation
 Flood Control
 Fish/Wildlife
 Recreation

Authorized Purposes

Low Flow Augmentation
 Flood Control
 Fish/Wildlife
 Recreation

Authorizing Laws

PL 75-761
 PL 75-761
 PL 79-732
 PL 78-534, PL 100-676

1. PL 100-676 authorized whitewater recreation and recreation enhancement. The project is not operated for these purposes because the need has not been identified.

TAPPAN LAKE

Little Stillwater Creek. Harrison County Ohio.

Ohio River Division

Huntington District

Operating Purposes

Flood Control
 Recreation
 Fish/Wildlife

Authorized Purposes

Flood Control
 Recreation
 Water Conservation

Authorizing Laws

PL 76-396, PL 73-67
 PL 76-396, PL 73-67
 PL 76-396, PL 73-67

1. Water Conservation - As per the "Official Plan for the Muskingum Watershed Conservancy District," dated 8 Oct 34 and subsequently revised 15 Apr 35 and 5 Jun 35, conservation storage is to be withdrawn during periods of low flow for purpose of water supply, groundwater recharge, industrial uses, dilution of pollution, promotion of fish life and various other purposes (Vol I, p. 7).

TOM JENKINS DAM

Hocking River. Athens County Ohio.

Ohio River Division

Huntington District

Operating Purposes

Flood Control
 Recreation
 Water Supply

Authorized Purposes

Flood Control
 Low Flow Augmentation
 Recreation
 Water Supply

Authorizing Laws

PL 78-534
 PL 78-534
 PL 78-534
 PL 85-500

1. Low flow augmentation is no longer required since the water treatment plant takes water directly from lake.

WILLOW ISLAND LOCKS AND DAMOhio River. Pleasants County West Virginia. Washington County
Ohio

Ohio River Division

Huntington District

Operating PurposesFish/Wildlife
Recreation
NavigationAuthorized PurposesFish/Wildlife
Recreation
NavigationAuthorizing LawsPL 85-624
PL 78-534
PL 80-317, PL 61-264**WILLS CREEK LAKE**

Wille Creek. Coshocton and Muskingum Counties Ohio.

Ohio River Division

Huntington District

Operating PurposesRecreation
Flood Control
Fish/WildlifeAuthorized PurposesRecreation
Flood Control
Water ConservationAuthorizing LawsPL 78-396, PL 73-87
PL 78-396, PL 73-67
PL 76-398, PL 73-87

1. Water Conservation - As per the "Official Plan for the Muskingum Watershed Conservancy District," dated 8 Oct 34 and subsequently revised 15 Apr 35 and 5 Jun 35, conservation storage is to be withdrawn during periods of low flow for purpose of water supply, groundwater recharge, industrial uses, dilution of pollution, promotion of fish life and various other purposes (Vol I, p. 7).

WINFIELD LOCKS AND DAM

Kanawha River. Putnam County West Virginia.

Ohio River Division

Huntington District

Operating PurposesFish/Wildlife
Navigation
RecreationAuthorized PurposesFish/Wildlife
Navigation
RecreationAuthorizing LawsPL 85-824
PL 74-409, PL 73-67
PL 78-534**YATESVILLE LAKE**

Blaine Creek. Lawrence County Kentucky.

Ohio River Division

Huntington District

Operating PurposesFlood Control
Water Quality
Recreation
Low Flow AugmentationAuthorized PurposesFlood Control
Water Quality
Recreation
Low Flow AugmentationAuthorizing LawsPL 75-781, PL 89-298
PL 89-298
PL 89-298
PL 75-781, PL 89-298**BARREN RIVER LAKE**

Barren River. Allen and Barren Counties Kentucky.

Ohio River Division

Louisville District

Operating PurposesWater Quality
Recreation
Water Supply
Flood ControlAuthorized PurposesWater Quality
Recreation
Water Supply
Flood ControlAuthorizing LawsPL 92-600
PL 78-534
PL 85-500
PL 75-761

East Fork Whitewater River. Franklin and Union Counties
Indiana.

Ohio River Division
Louisville District

Operating Purposes

Water Quality
Recreation
Water Supply
Flood Control

Authorized Purposes

Water Quality
Recreation
Water Supply
Flood Control

Authorizing Laws

PL 92-500
PL 78-534
PL 85-500
PL 75-761

BUCKHORN LAKE

Middle Fork Kentucky River. Perry and Leslie Counties Kentucky.

Ohio River Division
Louisville District

Operating Purposes

Flood Control
Recreation
Water Quality

Authorized Purposes

Flood Control
Recreation
Water Quality

Authorizing Laws

PL 75-761
PL 78-534
PL 92-500

CAESAR CREEK LAKE

Caesar Creek. Warren, Clinton and Greene Counties Ohio.

Ohio River Division
Louisville District

Operating Purposes

Flood Control
Water Supply
Recreation
Water Quality

Authorized Purposes

Flood Control
Water Supply
Recreation
Water Quality

Authorizing Laws

PL 75-761
PL 85-500
PL 78-534
PL 87-88

CAGLES MILL LAKE

Eel River. Putnam and Owen Counties Indiana.

Ohio River Division
Louisville District

Operating Purposes

Flood Control
Recreation
Water Quality

Authorized Purposes

Flood Control
Recreation
Water Quality

Authorizing Laws

PL 75-761
PL 78-534
PL 92-500

CANNELTON LOCKS AND DAM

Ohio River. Hancock County Kentucky. Perry County Indiana

Ohio River Division
Louisville District

Operating Purposes

Navigation

Authorized Purposes

Navigation

Authorizing Laws

PL 80-317

CARR FORK LAKE

Carr Fork. Knott County Kentucky.

Ohio River Division
Louisville District

Operating Purposes

Recreation
Flood Control
Water Quality

Authorized Purposes

Recreation
Flood Control
Water Quality

Authorizing Laws

PL 87-874
PL 87-874
PL 92-500

CAVE RUN LAKE

Licking River. Bath, Rowan, Menifee and Morgan Counties
Kentucky.

Ohio River Division
Louisville District

Operating Purposes

Water Quality
Flood Control
Recreation

Authorized Purposes

Water Quality
Flood Control
Recreation

Authorizing Laws

PL 92-500
PL 74-738, PL 75-781
PL 78-534

CECIL M. HARDEN LAKE

Raccoon Creek. Parke and Putnam Counties Indiana.

Ohio River Division
Louisville District

Operating Purposes

Recreation
Flood Control
Water Quality

Authorized Purposes

Recreation
Flood Control
Water Quality

Authorizing Laws

PL 78-534
PL 75-761
PL 92-500

CLARENCE J. BROWN DAM AND RESERVOIR

Mad River. Clark County Ohio.

Ohio River Division
Louisville District

Operating Purposes

Recreation
Flood Control
Water Quality

Authorized Purposes

Recreation
Flood Control
Water Quality

Authorizing Laws

PL 87-874
PL 87-874
PL 92-500

GREEN RIVER LAKE

Green River. Taylor and Adair Counties Kentucky.

Ohio River Division
Louisville District

Operating Purposes

Water Quality
Flood Control
Water Supply
Recreation

Authorized Purposes

Water Quality
Flood Control
Water Supply
Recreation

Authorizing Laws

PL 92-500
PL 75-781
PL 85-500
PL 78-534

HUNTINGTON LAKE

Wabash River. Huntington and Wells Counties Indiana.

Ohio River Division
Louisville District

Operating Purposes

Flood Control
Recreation
Water Quality

Authorized Purposes

Flood Control
Recreation
Water Quality

Authorizing Laws

PL 85-500
PL 78-534
PL 92-500

Operating Purposes

Authorized Purposes
Navigation

Authorizing Laws
RHA 1888

1. Project closed to navigation due to loss of pool at Green River Dam No. 4
2. Old Lock and Dam built in 1841. The Federal Government assumed ownership in 1888.

LOCK AND DAM NO. 1 - GREEN RIVER
Green River. Henderson County Kentucky.

Ohio River Division
Louisville District

Operating Purposes
Navigation

Authorized Purposes
Navigation

Authorizing Laws
RHA 1888

1. Original lock and dam was built 1835-1840. Federal Government assumed ownership in 1888.

LOCK AND DAM NO. 2 - GREEN RIVER
Green River. McLean County Kentucky.

Ohio River Division
Louisville District

Operating Purposes
Navigation

Authorized Purposes
Navigation

Authorizing Laws
RHA 1888

1. The original lock and dam was built between 1836-1842. The Federal Government assumed ownership in 1888.

LOCK AND DAM NO. 3 - GREEN RIVER
Green River. Muhlenberg and Ohio Counties Kentucky.

Ohio River Division
Louisville District

Operating Purposes

Authorized Purposes
Navigation

Authorizing Laws
RHA 1888

1. The original lock and dam was built by the State of Kentucky between 1833-1836. This lock and dam was operated by the State and later by a chartered navigation company until purchased by the Federal Government in 1888.
2. Dam has been breached, no navigation pool maintained.

LOCK AND DAM NO. 4 - GREEN RIVER
Green River. Butler County Kentucky.

Ohio River Division
Louisville District

Operating Purposes

Authorized Purposes
Navigation

Authorizing Laws
RHA 1888

1. The original lock and dam was built by the State of Kentucky between 1834 and 1839. This lock and dam was operated by the State and later by a chartered navigation company until purchased by the Federal Government in 1888. The dam was breached in May 1965, no navigation pool is maintained.

LOCK AND DAM NO. 5 - GREEN RIVER
Green River. Warren County Kentucky.

Ohio River Division
Louisville District

Operating Purposes

Authorized Purposes
Navigation

Authorizing Laws
RHA 1890

1. The lock and dam was built between 1898 and 1900, and was placed into operation in 1900.
2. The Corps of Engineers discontinued use of lock in 1951.

LOCK AND DAM NO. 6 - GREEN RIVER
Green River. Edmonson County Kentucky.

Ohio River Division
Louisville District

Operating Purposes

Authorized Purposes
Navigation

Authorizing Laws
PL 57-154

1. Project was built 1904-1905 and put in operation Jan 1, 1906.
2. Project deactivated August 1961.

LOCK AND DAM NO. 1 - KENTUCKY RIVER
Kentucky River. Carroll County Kentucky.

Ohio River Division
Louisville District

Operating Purposes
Navigation

Authorized Purposes
Navigation

Authorizing Laws
RHA 1679

LOCK AND DAM NO. 2 - KENTUCKY RIVER
Kentucky River. Henry and Owen Counties Kentucky.

Ohio River Division
Louisville District

Operating Purposes
Navigation

Authorized Purposes
Navigation

Authorizing Laws
RHA 1879

LOCK AND DAM NO. 3 - KENTUCKY RIVER
Kentucky River. Henry and Owen Counties Kentucky.

Ohio River Division
Louisville District

Operating Purposes
Navigation

Authorized Purposes
Navigation

Authorizing Laws
RHA 1879

1. Project built 1838-1842 by the State and taken over by the Federal Government in 1880.

Operating Purposes
Navigation

Authorized Purposes
Navigation

Authorizing Laws
RHA 1879

1. Project built 1838-1842 by the State and taken over by the Federal Government in 1880.

LOCK AND DAM NO. 5 - KENTUCKY RIVER
Kentucky River. Woodford and Anderson Counties Kentucky.

Ohio River Division
Louisville District

Operating Purposes

Authorized Purposes
Navigation

Authorizing Laws
RHA 1879

1. Project built 1838-1842 by the State and taken over by the Federal Government in 1880.

2. The Corps of Engineers has been authorized by Congress to divest itself of the Kentucky River Locks and Dams Nos. 5-14. The properties have been turned over to the General Services Administration (GSA) and are being processed for disposal. Since 1985, the Commonwealth of Kentucky has been operating these locks and dams in accordance with a Memorandum of Understanding (MOU) and a lease executed between Kentucky and Corps of Engineers. This MOU and lease expired on 15 October 1989. This MOU and lease were signed with the understanding that Kentucky intended to obtain ownership of the locks and dams after their expiration. On August 28, 1989, Kentucky filed suit against the Corps of Engineers concerning the proposed divestiture of the locks and dams. On 8 February 1991 the defendants filed a motion for summary judgement. That motion is pending before the court. A new one-year lease was signed on July 2, 1990. It was extended on July 2, 1991 with the proviso that the lease would expire on July 1, 1992, or upon divestiture if that occurs sooner.

LOCK AND DAM NO. 8 - KENTUCKY RIVER
Kentucky River. Woodford and Mercer Counties Kentucky.

Ohio River Division
Louisville District

Operating Purposes

Authorized Purposes
Navigation

Authorizing Laws
RHA 1879

1. Project built 1888-1891 by the Federal Government.
2. See note 2, Lock and Dam No. 5 - Kentucky River.

LOCK AND DAM NO. 7 - KENTUCKY RIVER
Kentucky River. Jessamine and Mercer Counties Kentucky.

Ohio River Division
Louisville District

Operating Purposes

Authorized Purposes
Navigation

Authorizing Laws
RHA 1879

1. Project built 1898 to 1897 by the Federal Government.
2. See note 2, Lock and Dam No. 5 - Kentucky River.

LOCK AND DAM NO. 8 - KENTUCKY RIVER
 Kentucky River. Jessamine and Garrard Counties Kentucky.

Ohio River Division
 Louisville District

Operating Purposes

Authorized Purposes
 Navigation

Authorizing Laws
 RHA 1879

1. Project built 1898-1900 by the Federal Government.
2. See note 2, Lock and Dam No. 5 - Kentucky River.

LOCK AND DAM NO. 9 - KENTUCKY RIVER
 Kentucky River. Jessamine and Madison Counties Kentucky.

Ohio River Division
 Louisville District

Operating Purposes

Authorized Purposes
 Navigation

Authorizing Laws
 RHA 1879

1. Project built 1901-1903 by the Federal Government.
2. See note 2, Lock and Dam No. 5 - Kentucky River.

LOCK AND DAM NO. 10 - KENTUCKY RIVER
 Kentucky River. Madison and Clark Counties Kentucky.

Ohio River Division
 Louisville District

Operating Purposes

Authorized Purposes
 Navigation

Authorizing Laws
 RHA 1879

1. Project built 1902-1905 by the Federal Government.
2. See note 2, Lock and Dam No. 5 - Kentucky River.

LOCK AND DAM NO. 11 - KENTUCKY RIVER
 Kentucky River. Madison and Estill Counties Kentucky.

Ohio River Division
 Louisville District

Operating Purposes

Authorized Purposes
 Navigation

Authorizing Laws
 RHA 1879

1. Project built 1904-1906 by the Federal Government.
2. See note 2, Lock and Dam No. 5 - Kentucky River.

LOCK AND DAM NO. 12 - KENTUCKY RIVER
 Kentucky River. Estill County Kentucky.

Ohio River Division
 Louisville District

Operating Purposes

Authorized Purposes
 Navigation

Authorizing Laws
 RHA 1879

1. Project built 1907-1910 by the Federal Government.
2. See note 2, Lock and Dam No. 5 - Kentucky River.

Operating Purposes

Authorized Purposes
Navigation

Authorizing Laws
RHA 1879

1. Project built 1907-1910 by the Federal Government.
2. See note 2, Lock and Dam No. 5 - Kentucky River.

LOCK AND DAM NO. 14 - KENTUCKY RIVER
Kentucky River. Lee County Kentucky.

Ohio River Division
Louisville District

Operating Purposes

Authorized Purposes
Navigation

Authorizing Laws
RHA 1879

1. Project built 1911-1917 by the Federal Government.
2. See note 2, Lock and Dam No. 5 - Kentucky River.

LOCKS AND DAM NO. 52 - OHIO RIVER
Ohio River. McCracken County Kentucky. Massac County Illinois

Ohio River Division
Louisville District

Operating Purposes
Navigation

Authorized Purposes
Navigation

Authorizing Laws
PL 60-317, PL 61-264, PL 65-200

LOCKS AND DAM NO. 53 - OHIO RIVER
Ohio River. Ballard County Kentucky. Pulaski County Illinois

Ohio River Division
Louisville District

Operating Purposes
Navigation

Authorized Purposes
Navigation

Authorizing Laws
PL 60-317, PL 61-264, PL 65-200

MARKLAND LOCKS AND DAMS
Ohio River. Gallatin County Kentucky. Switzerland County
Indiana

Ohio River Division
Louisville District

Operating Purposes
Navigation

Authorized Purposes
Navigation

Authorizing Laws
PL 60-317

MCALPINE LOCKS AND DAM
Ohio River. Jefferson County Kentucky. Clark County Indiana

Ohio River Division
Louisville District

Operating Purposes
Navigation

Authorized Purposes
Navigation

Authorizing Laws
PL 60-317

MISSISSINewa LAKE

Mississinewa River. Miami, Wabash and Grant Counties Indiana.

Ohio River Division

Louisville District

Operating PurposesRecreation
Flood Control
Water QualityAuthorized PurposesRecreation
Flood Control
Water QualityAuthorizing LawsPL 78-534
PL 85-500
PL 92-500**MONROE LAKE**

Salt Creek. Monroe, Brown and Jackson Counties Indiana.

Ohio River Division

Louisville District

Operating PurposesRecreation
Flood Control
Water SupplyAuthorized PurposesRecreation
Flood Control
Water SupplyAuthorizing LawsPL 78-534
PL 85-500
PL 85-500**NEWBURGH LOCKS AND DAM**

Ohio River. Henderson County Kentucky. Warrick County Indiana

Ohio River Division

Louisville District

Operating Purposes

Navigation

Authorized Purposes

Navigation

Authorizing Laws

PL 60-317

NOLIN LAKE

Nolin River. Edmonson, Grayson and Hart Counties Kentucky.

Ohio River Division

Louisville District

Operating PurposesFlood Control
Water Quality
Recreation
Water SupplyAuthorized PurposesFlood Control
Water Quality
Recreation
Water SupplyAuthorizing LawsPL 75-781
PL 92-500
PL 78-534
PL 85-500**PATOKA LAKE**

Patoka River. Dubois, Orange and Crawford Counties Indiana.

Ohio River Division

Louisville District

Operating PurposesFlood Control
Water Quality
Recreation
Water SupplyAuthorized PurposesFlood Control
Water Quality
Recreation
Water SupplyAuthorizing LawsPL 89-296
PL 89-298
PL 89-298
PL 89-296**ROUGH RIVER LAKE**

Rough River. Breckinridge, Grayson and Hardin Counties Kentucky.

Ohio River Division

Louisville District

Operating PurposesFlood Control
Water Quality
Recreation
Water SupplyAuthorized PurposesFlood Control
Water Quality
Recreation
Water SupplyAuthorizing LawsPL 75-781
PL 92-500
PL 78-534
PL 85-500

SALAMONIE LAKE
Salamonie River. Wabash and Huntington Counties Indiana. Ohio River Division
Louisville District

Operating Purposes

Flood Control
Recreation
Water Quality

Authorized Purposes

Flood Control
Recreation
Water Quality

Authorizing Laws

PL 85-600
PL 78-534
PL 92-500

SMITHLAND LOCKS AND DAM

Ohio River. Livingston County Kentucky. Pope County Illinois

Ohio River Division
Louisville District

Operating Purposes

Navigation

Authorized Purposes

Navigation

Authorizing Laws

PL 60-317

TAYLORSVILLE LAKE

Salt River. Spencer, Nelson and Anderson Counties Kentucky.

Ohio River Division
Louisville District

Operating Purposes

Flood Control
Water Quality
Recreation
Fish/Wildlife

Authorized Purposes

Flood Control
Water Quality
Recreation
Fish/Wildlife

Authorizing Laws

PL 69-789
PL 89-789
PL 69-789
PL 89-789

UNIONTOWN LOCKS AND DAM

Ohio River. Union County Kentucky. Posey County Indiana

Ohio River Division
Louisville District

Operating Purposes

Navigation

Authorized Purposes

Navigation

Authorizing Laws

PL 60-317

WEST FORK OF MILL CREEK LAKE

West Fork of Mill Creek. Hamilton County Ohio.

Ohio River Division
Louisville District

Operating Purposes

Flood Control
Recreation

Authorized Purposes

Flood Control
Recreation

Authorizing Laws

PL 79-528
PL 78-534

WILLIAM H. HARSHA LAKE

East Fork, Little Miami River. Clermont County Ohio.

Ohio River Division
Louisville District

Operating Purposes

Flood Control
Water Supply
Recreation
Water Quality

Authorized Purposes

Flood Control
Water Supply
Recreation
Water Quality

Authorizing Laws

PL 75-761
PL 85-600
PL 78-534
PL 87-88

BARKLEY DAM AND LAKE BARKLEY
Cumberland River. Lyon and Livingston Counties Kentucky.

Ohio River Division
Nashville District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Water Quality	Water Quality	PL 92-500
Recreation	Recreation	PL 78-534
Water Supply		
Fish/Wildlife	Fish/Wildlife	PL 85-824
Navigation	Navigation	PL 79-525, PL 83-780
Hydroelectric Power	Hydroelectric Power	PL 79-525, PL 83-780
Flood Control	Flood Control	PL 83-780

1. PL 70-525 authorized Eureka and Dover projects. PL 83-780 authorized Barkley in lieu of Eureka and Dover.

2. Although storage space is not allocated for water supply on either a permanent (PL 85-500) or temporary (PL 78-534) basis, water is being withdrawn by municipalities and industries for M&I purposes. Consequently, during drought, consideration is given to keeping the lake level above the supply pipe intakes.

CENTER HILL LAKE
Caney Fork River. Dekalb County Tennessee.

Ohio River Division
Nashville District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Hydroelectric Power	Hydroelectric Power	PL 79-525
Fish/Wildlife	Fish/Wildlife	PL 85-824
Water Quality	Water Quality	PL 92-500
Flood Control	Flood Control	PL 75-761
Water Supply		
	Recreation	PL 78-534

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

2. Although storage space is not allocated for water supply on either a permanent (PL 85-500) or temporary (PL 78-534) basis, water is being withdrawn by municipalities and industries for M&I purposes. Consequently, during drought, consideration is given to keeping the lake level above the supply pipe intakes.

CHEATHAM LOCK AND DAM
Cumberland River. Cheatham and Dickson Counties Tennessee.

Ohio River Division
Nashville District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Recreation	Recreation	PL 78-534
Fish/Wildlife	Fish/Wildlife	PL 85-824
Water Quality	Water Quality	PL 92-500
Water Supply		
Hydroelectric Power	Hydroelectric Power	PL 82-396
Navigation	Navigation	PL 79-525

(continued)

1. Although storage space is not allocated for water supply on either a permanent (PL 85-500) or temporary (PL 78-534) basis, water is being withdrawn by municipalities and industries for M&I purposes. Consequently, during drought, consideration is given to keeping the lake level above the supply pipe intakes.

CORDELL HULL LOCK AND DAM
Cumberland River. Smith County Tennessee.

Ohio River Division
Nashville District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Recreation	Recreation	PL 78-534
Water Supply		
Navigation	Navigation	PL 79-525
Hydroelectric Power	Hydroelectric Power	PL 79-525
Water Quality	Water Quality	PL 92-500
Fish/Wildlife	Fish/Wildlife	PL 85-624

1. Although storage space is not allocated for water supply on either a permanent (PL 85-500) or temporary (PL 78-534) basis, water is being withdrawn by municipalities and industries for M&I purposes. Consequently, during drought, consideration is given to keeping the lake level above the supply pipe intakes.

DALE HOLLOW LAKE
Obey River. Clay County Tennessee.

Ohio River Division
Nashville District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Hydroelectric Power	Hydroelectric Power	PL 79-525
Flood Control	Flood Control	PL 78-761
Water Supply		
	Recreation	PL 78-534
Water Quality	Water Quality	PL 92-500
Fish/Wildlife	Fish/Wildlife	PL 85-624

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

2. Although storage space is not allocated for water supply on either a permanent (PL 85-500) or temporary (PL 78-534) basis, water is being withdrawn by municipalities and industries for M&I purposes. Consequently, during drought, consideration is given to keeping the lake level above the supply pipe intakes.

J. PERCY PRIEST DAM AND RESERVOIR
Stones River. Davidson County Tennessee.

Ohio River Division
Nashville District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Hydroelectric Power	Hydroelectric Power	PL 79-525
Flood Control	Flood Control	PL 78-761
Water Supply		
Recreation	Recreation	PL 78-534
Fish/Wildlife	Fish/Wildlife	PL 85-624
Water Quality	Water Quality	PL 92-500

(continued)

1. Although storage space is not allocated for water supply on either a permanent (PL 85-500) or temporary (PL 78-534) basis, water is being withdrawn by municipalities and industries for M&I purposes. Consequently, during drought, consideration is given to keeping the lake level above the supply pipe intakes.

LAUREL RIVER LAKE

Laurel River. Laurel and Whitley Counties Kentucky.

Ohio River Division
Nashville District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Recreation	Recreation	PL 86-645
Water Quality	Water Quality	PL 92-500
	Flood Control	PL 66-645
Hydroelectric Power	Hydroelectric Power	PL 86-645
Fish/Wildlife	Fish/Wildlife	PL 85-624
Water Supply		

1. Flood control was not economically justified in later studies.

2. Although storage space is not allocated for water supply on either a permanent (PL 85-500) or temporary (PL 78-534) basis, water is being withdrawn by municipalities and industries for M&I purposes. Consequently, during drought, consideration is given to keeping the lake level above the supply pipe intakes.

MARTINS FORK LAKE

Martins Fork of Clover River. Harlan County Kentucky.

Ohio River Division
Nashville District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Water Supply		
Recreation	Recreation	PL 89-296
Flood Control	Flood Control	PL 89-296
Fish/Wildlife	Fish/Wildlife	PL 85-624
Water Quality	Water Quality	PL 89-296, PL 92-500

1. Although storage space is not allocated for water supply on either a permanent (PL 85-500) or temporary (PL 78-534) basis, water is being withdrawn by municipalities and industries for M&I purposes. Consequently, during drought, consideration is given to keeping the lake level above the supply pipe intakes.

OLD HICKORY LOCK AND DAM

Cumberland River. Davidson and Sumner Counties Tennessee.

Ohio River Division
Nashville District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Water Supply		
Navigation	Navigation	PL 79-525
Hydroelectric Power	Hydroelectric Power	PL 79-525
Fish/Wildlife	Fish/Wildlife	PL 85-624
Water Quality	Water Quality	PL 92-500
Recreation	Recreation	PL 78-534

(continued)

1. Although storage space is not allocated for water supply on either a permanent (PL 85-500) or temporary (PL 78-534) basis, water is being withdrawn by municipalities and industries for M&I purposes. Consequently, during drought, consideration is given to keeping the lake level above the supply pipe intakes.

WOLF CREEK DAM - LAKE CUMBERLAND

Cumberland River. Russell County Kentucky.

Ohio River Division
Nashville District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
	Recreation	PL 78-534
Water Supply		
Fish/Wildlife	Fish/Wildlife	PL 85-624
Water Quality	Water Quality	PL 92-500
Flood Control	Flood Control	PL 75-781
Hydroelectric Power	Hydroelectric Power	PL 79-525

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

2. Although storage space is not allocated for water supply on either a permanent (PL 85-500) or temporary (PL 78-534) basis, water is being withdrawn by municipalities and industries for M&I purposes. Consequently, during drought, consideration is given to keeping the lake level above the supply pipe intakes.

BERLIN LAKE

Mahoning River. Portage and Mahoning Counties Ohio.

Ohio River Division
Pittsburgh District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Recreation	Recreation	PL 78-534, PL 87-874
Water Quality	Water Quality	PL 75-761, PL 92-500
Flood Control	Flood Control	PL 75-761
Water Supply	Water Supply	PL 75-761
Low Flow Augmentation	Low Flow Augmentation	PL 75-761
Fish/Wildlife	Fish/Wildlife	PL 85-824

CONEMAUGH RIVER LAKE

Conemaugh River. Indiana and Westmoreland Counties
Pennsylvania.

Ohio River Division
Pittsburgh District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Flood Control	Flood Control	PL 74-738, PL 75-761
Recreation	Recreation	PL 78-534
Water Quality	Water Quality	PL 92-500

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Recreation	Recreation	PL 78-534
Flood Control	Flood Control	PL 74-738, PL 75-761

DASHIELDS LOCKS AND DAM
Ohio River, Allegheny County Pennsylvania.
Ohio River Division
Pittsburgh District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Navigation	Navigation	PL 65-200

EAST BRANCH CLARION RIVER LAKE
East Branch Clarion River, Elk County Pennsylvania.
Ohio River Division
Pittsburgh District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Recreation	Recreation	PL 78-534
Low Flow Augmentation	Low Flow Augmentation	PL 75-761
Fish/Wildlife	Fish/Wildlife	PL 75-761, PL 85-824
Flood Control	Flood Control	PL 75-761
Water Quality	Water Quality	PL 75-761, PL 92-500

EMSWORTH LOCKS AND DAMS
Ohio River, Allegheny County Pennsylvania.
Ohio River Division
Pittsburgh District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Navigation	Navigation	PL 65-200

GRAYS LANDING LOCK AND DAM
Monongahela River, Fayette County Pennsylvania.
Ohio River Division
Pittsburgh District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Navigation	Navigation	PL 99-662

1. Under construction.

HANNIBAL LOCKS AND DAM
Ohio River, Wetzel County West Virginia, Monroe County Ohio
Ohio River Division
Pittsburgh District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Navigation	Recreation Navigation	PL 78-534 PL 60-317

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

Operating Purposes
Navigation

Authorized Purposes
Navigation

Authorizing Laws
PL 81-516

KINZUA DAM AND ALLEGHENY RESERVOIR
Allegheny River. Warren County Pennsylvania.

Ohio River Division
Pittsburgh District

Operating Purposes
Recreation

Authorized Purposes
Recreation

Authorizing Laws
PL 74-738, PL 75-761, PL 77-226,
PL 76-534
PL 74-738, PL 75-761, PL 77-226
PL 85-624
PL 74-738, PL 75-761, PL 77-226
PL 77-226, PL 92-500

Low Flow Augmentation
Fish/Wildlife
Flood Control
Water Quality

Low Flow Augmentation
Fish/Wildlife
Flood Control
Water Quality

LOCK AND DAM NO. 2 - ALLEGHENY RIVER
Allegheny River. Allegheny County Pennsylvania.

Ohio River Division
Pittsburgh District

Operating Purposes
Navigation

Authorized Purposes
Navigation

Authorizing Laws
PL 74-409

LOCK AND DAM NO. 3 - ALLEGHENY RIVER
Allegheny River. Allegheny County Pennsylvania.

Ohio River Division
Pittsburgh District

Operating Purposes
Navigation

Authorized Purposes
Navigation

Authorizing Laws
PL 74-409

LOCK AND DAM NO. 4 - ALLEGHENY RIVER
Allegheny River. Allegheny and Westmoreland Counties
Pennsylvania.

Ohio River Division
Pittsburgh District

Operating Purposes
Navigation

Authorized Purposes
Navigation

Authorizing Laws
PL 82-241

LOCK AND DAM NO. 5 - ALLEGHENY RIVER
Allegheny River. Armstrong County Pennsylvania.

Ohio River Division
Pittsburgh District

Operating Purposes
Navigation

Authorized Purposes
Navigation

Authorizing Laws
PL 82-241

LOCK AND DAM NO. 6 - ALLEGHENY RIVER
Allegheny River. Armstrong County Pennsylvania.

Ohio River Division
Pittsburgh District

Operating Purposes
Navigation

Authorized Purposes
Navigation

Authorizing Laws
PL 82-241

Operating Purposes
Navigation

Authorized Purposes
Navigation

Authorizing Laws
PL 62-241

LOCK AND DAM NO. 8 - ALLEGHENY RIVER
Allegheny River. Armstrong County Pennsylvania.

Ohio River Division
Pittsburgh District

Operating Purposes
Navigation

Authorized Purposes
Navigation

Authorizing Laws
PL 62-241, PL 74-409

LOCK AND DAM NO. 9 - ALLEGHENY RIVER
Allegheny River. Armstrong County Pennsylvania.

Ohio River Division
Pittsburgh District

Operating Purposes
Navigation

Authorized Purposes
Navigation

Authorizing Laws
PL 74-409

LOCKS AND DAM NO. 2 - MONONGAHELA RIVER
Monongahela River. Allegheny County Pennsylvania.

Ohio River Division
Pittsburgh District

Operating Purposes
Navigation

Authorized Purposes
Navigation

Authorizing Laws
PL 57-154

LOCKS AND DAM NO. 3 - MONONGAHELA RIVER
Monongahela River. Allegheny County Pennsylvania.

Ohio River Division
Pittsburgh District

Operating Purposes
Navigation

Authorized Purposes
Navigation

Authorizing Laws
PL 58-215

LOCKS AND DAM NO. 4 - MONONGAHELA RIVER
Monongahela River. Westmoreland and Washington Counties
Pennsylvania.

Ohio River Division
Pittsburgh District

Operating Purposes
Navigation

Authorized Purposes
Navigation

Authorizing Laws
PL 60-317, PL 71-520

LOCK AND DAM NO. 7 - MONONGAHELA RIVER
Monongahela River. Fayette County Pennsylvania.

Ohio River Division
Pittsburgh District

Operating Purposes
Navigation

Authorized Purposes
Navigation

Authorizing Laws
PL 67-362

1. To be removed upon completion of Grays Landing Lock and Dam.

Operating Purposes

Water Quality
Flood Control
Recreation

Authorized Purposes

Water Quality
Flood Control
Recreation

Authorizing Laws

PL 92-500
PL 74-738, PL 75-761
PL 78-534

MAHONING CREEK LAKE
Mahoning Creek. Armstrong County Pennsylvania.

Ohio River Division
Pittsburgh District

Operating Purposes

Fish/Wildlife
Flood Control
Recreation

Authorized Purposes

Fish/Wildlife
Flood Control
Recreation

Authorizing Laws

PL 85-624
PL 74-736, PL 75-761
PL 78-534

MAXWELL LOCKS AND DAM
Monongahela River. Fayette and Washington Counties
Pennsylvania.

Ohio River Division
Pittsburgh District

Operating Purposes

Navigation

Authorized Purposes

Recreation
Navigation

Authorizing Laws

PL 78-534
PL 60-317

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

MICHAEL J. KIRWAN DAM AND RESERVOIR
West Branch Mahoning River. Portage County Ohio.

Ohio River Division
Pittsburgh District

Operating Purposes

Water Supply
Recreation
Fish/Wildlife
Low Flow Augmentation
Water Quality
Flood Control

Authorized Purposes

Water Supply
Recreation
Fish/Wildlife
Low Flow Augmentation
Water Quality
Flood Control

Authorizing Laws

PL 85-500, PL 88-645
PL 85-500
PL 85-624
PL 85-500
PL 85-500, PL 88-645, PL 92-500
PL 85-500

MONTGOMERY LOCKS AND DAM
Ohio River. Beaver County Pennsylvania.

Ohio River Division
Pittsburgh District

Operating Purposes

Navigation

Authorized Purposes

Navigation

Authorizing Laws

PL 85-200

Operating Purposes
Navigation

Authorized Purposes
Navigation

Authorizing Laws
PL 60-317

MOSQUITO CREEK LAKE

Mosquito Creek. Trumbull County Ohio.

Ohio River Division
Pittsburgh District

Operating Purposes

Water Quality
Low Flow Augmentation
Fish/Wildlife
Flood Control
Water Supply
Recreation

Authorized Purposes

Water Quality
Low Flow Augmentation
Fish/Wildlife
Flood Control
Water Supply
Recreation

Authorizing Laws

PL 75-761, PL 92-500
PL 75-761
PL 85-624
PL 75-761
PL 75-761
PL 76-534

NEW CUMBERLAND LOCKS AND DAM

Ohio River. Hancock County West Virginia. Jefferson County Ohio

Ohio River Division
Pittsburgh District

Operating Purposes

Navigation

Authorized Purposes

Recreation
Navigation

Authorizing Laws

PL 78-534
PL 60-317

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

OPEKISKA LOCK AND DAM

Monongahela River. Monongalia County West Virginia.

Ohio River Division
Pittsburgh District

Operating Purposes

Navigation

Authorized Purposes

Navigation
Recreation

Authorizing Laws

PL 61-516
PL 78-534

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

PIKE ISLAND LOCKS AND DAM

Ohio River. Ohio County West Virginia. Belmont County Ohio

Ohio River Division
Pittsburgh District

Operating Purposes

Navigation

Authorized Purposes

Recreation
Navigation

Authorizing Laws

PL 78-534
PL 60-317

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

Operating Purposes

Navigation

Authorized Purposes

Navigation

Authorizing Laws

PL 67-362, PL 81-516, PL 99-662

SHENANGO RIVER LAKE

Shenango River. Mercer County Pennsylvania.

Ohio River Division

Pittsburgh District

Operating Purposes

Low Flow Augmentation

Recreation

Flood Control

Fish/Wildlife

Authorized Purposes

Low Flow Augmentation

Recreation

Flood Control

Fish/Wildlife

Authorizing Laws

PL 75-761

PL 75-781, PL 78-534

PL 75-761

PL 85-824

STONEWALL JACKSON LAKE

West Fork River. Lewis County West Virginia.

Ohio River Division

Pittsburgh District

Operating Purposes

Water Quality

Recreation

Water Supply

Flood Control

Fish/Wildlife

Low Flow Augmentation

Authorized Purposes

Water Quality

Recreation

Water Supply

Flood Control

Fish/Wildlife

Low Flow Augmentation

Authorizing Laws

PL 89-789

PL 89-789, PL 100-676

PL 89-789

PL 89-789

PL 85-824

PL 89-789

1. Though authorized by PL 100-676, the West Fork River is not suitable for white water rafting, therefore the project is not operated for this purpose.

TIONESTA LAKE

Tionesta Creek. Forest County Pennsylvania.

Ohio River Division

Pittsburgh District

Operating Purposes

Recreation

Flood Control

Fish/Wildlife

Authorized Purposes

Recreation

Flood Control

Fish/Wildlife

Authorizing Laws

PL 78-534

PL 74-738, PL 75-761

PL 65-824

TYGART RIVER LAKE

Tygrant River. Taylor County West Virginia.

Ohio River Division

Pittsburgh District

Operating Purposes

Fish/Wildlife

Water Supply

Low Flow Augmentation

Navigation

Flood Control

Water Quality

Recreation

Authorized Purposes

Fish/Wildlife

Water Supply

Low Flow Augmentation

Navigation

Flood Control

Water Quality

Recreation

Authorizing Laws

PL 85-824

PL 74-409

PL 74-409

PL 74-409

PL 74-409

PL 74-409, PL 92-500

PL 78-534

UNION CITY DAM
 French Creek. Erie County Pennsylvania.
 Ohio River Division
 Pittsburgh District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Flood Control	Flood Control	PL 87-874

WOODCOCK CREEK LAKE
 Woodcock Creek. Crawford County Pennsylvania.
 Ohio River Division
 Pittsburgh District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Flood Control	Flood Control	PL 87-874
Recreation	Recreation	PL 87-874
Water Quality	Water Quality	PL 87-874, PL 92-500
Low Flow Augmentation	Low Flow Augmentation	PL 87-874
Fish/Wildlife	Fish/Wildlife	PL 85-824

YOUGHIOGHENY RIVER LAKE
 Youghiogheny River. Fayette and Somerset Counties Pennsylvania.
 Ohio River Division
 Pittsburgh District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Low Flow Augmentation	Low Flow Augmentation	PL 75-761
Fish/Wildlife	Fish/Wildlife	PL 85-824
Flood Control	Flood Control	PL 75-761
Recreation	Recreation	PL 78-534, PL 100-878

CENTRAL AND SOUTHERN FLORIDA (C&SF) PROJECT

The Everglades; Caloosahatchie, Kissimmee, St. Johns Rivers
Dade, Broward, Palm Beach, Okeechobee, Glades, Lee, Hendry, St.
Lucie, Osceola, Martin, Indian River, Brevard and Orange
Counties Florida.

South Atlantic Division
Jacksonville District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Navigation	Navigation	PL 71-520, PL 80-858
Irrigation	Irrigation	PL 80-858, PL 90-483, PL 87-874
Water Supply	Water Supply	PL 80-858, PL 90-483, PL 87-874
Fish/Wildlife	Fish/Wildlife	PL 80-858, PL 86-624, PL 90-483, PL 93-205
Drainage and Water Control	Drainage and Water Control	PL 80-858, PL 87-874, PL 90-483
Preservation/Everglades National Park	Preservation/Everglades National Park	PL 90-483, PL 101-229
Water Supply/Everglades National Park	Water Supply/Everglades National Park	PL 80-858, PL 90-483, PL 91-282, PL 98-181, PL 99-190, PL 101-229, PL 100-676
Recreation	Recreation	PL 90-483, PL 78-534, PL 87-874
Water Quality	Water Quality	PL 90-483, PL 92-500, PL 95-217
Saltwater Intrusion	Saltwater Intrusion	PL 80-858, PL 90-483, PL 87-874
Groundwater Recharge	Groundwater Recharge	PL 80-858, PL 87-874
Flood Control	Flood Control	PL 71-520, PL 80-858, PL 87-874, PL 90-483

1. This project includes Agricultural and Conservation Areas, Kissimmee River Basin and Related Areas, Upper St. Johns River Basin and Related Areas, Lake Okeechobee and Outlets, Coastal Areas South of St. Lucie Canal.

2. PL 93-205 authorizing preservation of fish and wildlife has been amended by PL 95-632, PL 96-159, and PL 97-304.

3. PL 71-520 authorized the project for the Caloosahatchee River and Lake Okeechobee Drainage Areas. PL 80-858 modified and expanded the Project for the Caloosahatchee River and Lake Okeechobee Drainage Areas to include the first phase of the C&SF Project as recommended in H.D. 80-643. PL 83-780 authorized the remainder of the comprehensive plan found in H.D. 80-643. Completed work under the project for Caloosahatchee River and Lake Okeechobee Drainage Areas that did not pertain to navigation have been maintained as a part of the C&SF Project since July 1950 (1950 Annual Report, Chief of Engineers). The navigation project since then has been known as the Okeechobee Waterway.

4. The C&SF Project is operated and maintained by the South Florida Water Management District in accordance with regulations prescribed by the Corps of Engineers.

CERRILLOS DAM AND RESERVOIR

Cerrillos River. Puerto Rico.

South Atlantic Division
Jacksonville District

Operating Purposes

Flood Control
Water Supply
Fish/Wildlife
Recreation

Water Quality

Authorized Purposes

Flood Control
Water Supply
Fish/Wildlife
Recreation

Water Quality

Authorizing Laws

PL 91-611
PL 91-611, PL 85-500
PL 91-611, PL 85-624, PL 93-205
PL 91-611, PL 78-534, PL 87-874,
PL 89-72
PL 91-611, PL 92-500, PL 95-217,
PL 87-88

1. This project is in the reservoir filling phase.
2. PL 93-205 authorizing enhancement of fish and wildlife has been amended by PL 95-632, PL 96-159, PL 97-304.
3. This project will be operated and maintained by the Commonwealth of Puerto Rico in accordance with regulations prescribed by the Corps of Engineers.

FOUR RIVER BASINS (FRB) PROJECT

Hillsborough, Oklawaha, and Withlacoochee Rivers. Marion, Lake, Citrus, Hernando, Sumter, Hillsborough, Pinellas, Orange, Pasco Counties Florida.

South Atlantic Division
Jacksonville District

Operating Purposes

Navigation
Water Supply
Fish/Wildlife
Recreation
Water Quality
Saltwater Intrusion
Maintain Lake Levels
Flood Control

Authorized Purposes

Navigation
Water Supply
Fish/Wildlife
Recreation
Water Quality
Saltwater Intrusion
Flood Control

Authorizing Laws

PL 87-874
PL 87-874
PL 87-874, PL 85-824, PL 93-205
PL 87-874, PL 78-534
PL 87-874, PL 92-500, PL 95-217
PL 87-874
PL 87-874

1. This project includes Tampa Bypass Canal, Lower Hillsborough Flood Detention Area, Tsala Apopka Lakes, Lake Tarpon, Moss Bluff Lock and Dam, Oklawaha Chain of Lakes.
2. PL 93-205 authorizing preservation of fish and wildlife has been amended by PL 95-632, PL 96-159, PL 97-304.
3. This project is operated and maintained by the Southwest Florida Water Management District (SWFWMD) and St. Johns River Water Management District (SJRWMD) in accordance with regulations prescribed by the Corps of Engineers. Oklawaha River Project upstream of State Road 40 has been essentially incorporated into the FRB Project. The Oklawaha River Project has authorized purposes of navigation, reclamation and drainage, and maintenance of lake levels (see report for Oklawaha River Navigation Project).

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Flood Control	Flood Control	PL 87-874
Recreation	Recreation	PL 78-534, PL 87-874
Navigation	Navigation	PL 77-675
Fish/Wildlife	Fish/Wildlife	PL 85-624, PL 93-205
Water Quality	Water Quality	PL 92-500, PL 95-217

1. The pool created by Inglis Dam is known as Lake Rousseau.
2. Flood control purpose was contained in the Report (H.D. 87-585) for the Four River Basins Project.
3. PL 93-205 authorizing enhancement of fish and wildlife was amended by PL 96-632, PL 96-159, PL 97-304.
4. This project has been deauthorized by Section 402 of PL 101-640 (WRDA 1990). The project lands and facilities are scheduled to be turned over to the State of Florida in November 1992.

OKEECHOBEE WATERWAY PROJECT

Caloosahatchee River, Taylor Creek, and St. Lucie River.
 Okeechobee, Glades, Lee, Hendry, St. Lucie, Martin, Palm Beach
 Counties Florida.

South Atlantic Division
 Jacksonville District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Recreation	Recreation	PL 78-534, PL 87-874
Fish/Wildlife	Fish/Wildlife	PL 85-624, PL 93-205
Navigation	Navigation	PL 71-520, PL 74-409, PL 75-406, PL 79-14
Water Quality	Water Quality	PL 92-500, PL 95-217
Flood Control	Flood Control	PL 71-520, PL 74-409, PL 75-406

1. This project includes Ortona Lock, St. Lucie Lock, Moore Haven Lock, St. Lucie Canal, Caloosahatchee River, Lake Okeechobee, Taylor Creek.
2. PL 93-205 authorizing preservation of fish and wildlife has been amended by PL 95-632, PL 96-159, PL 97-304.
3. PL 71-520 authorized the project for the Caloosahatchee River and Lake Okeechobee Drainage Areas. PL 80-858 modified and expanded the project for the Caloosahatchee River and Lake Okeechobee Drainage Areas to include the first phase of the C&SF Project as recommended in H.D. 80-643. Completed work under the project for Caloosahatchee River and Lake Okeechobee Drainage Areas that did not pertain to navigation have been maintained as a part of the C&SF Project since July 1950 (1950 Annual Report, Chief of Engineers). The navigation project since then has been known as the Okeechobee Waterway. Refer to the report for the C&SF Project.

OKLAWAHA RIVER PROJECT

Oklawaha River. Putnam, Marion and Lake Counties Florida.

South Atlantic Division

Jacksonville District

Operating Purposes

Flood Control
Fish/Wildlife
Maintain Lake Levels
Water Quality
Recreation
Navigation

Water Supply

Authorized Purposes

Flood Control
Fish/Wildlife
Maintain Lake Levels
Water Quality
Recreation
Navigation

Water Supply

Authorizing Laws

PL 87-874
PL 87-874, PL 85-824, PL 93-205
PL 81-264, PL 82-241
PL 87-874, PL 92-500, PL 95-217
PL 87-874, PL 78-534, PL 89-72
PL 81-264, PL 82-241, PL 64-168,
PL 87-874
PL 87-874

1. This project includes Moss Bluff Lock and Dam.

2. PL 93-205 authorizing preservation of fish and wildlife has been amended by PL 95-832, PL 96-159, and PL 97-304.

3. This project is operated and maintained by the St. Johns River Water Management District (SJRWMD) in accordance with regulations prescribed by the Corps of Engineers. The project upstream from State Road 40 has been essentially incorporated into the Four River Basins (FRB) Project. The purposes associated with the FRB Project authorization (PL 87-874) are included above.

PORTUGUES DAM AND RESERVOIR

Portugues River. Puerto Rico.

South Atlantic Division

Jacksonville District

Operating PurposesAuthorized Purposes

Water Quality

Fish/Wildlife
Flood Control
Water Supply
Recreation

Authorizing Laws

PL 91-811, PL 92-500, PL 95-217,
PL 87-88
PL 91-811, PL 85-824, PL 93-205
PL 91-811
PL 91-811, PL 85-500
PL 91-811, PL 78-534, PL 87-874,
PL 89-72

1. This project is in the construction phase.

2. PL 93-205 authorizing enhancement of fish and wildlife has been amended by PL 95-832, PL 96-159, PL 97-304.

3. This project will be operated and maintained by the Commonwealth of Puerto Rico in accordance with regulations prescribed by the Corps of Engineers.

RODMAN LOCK AND DAM (CROSS FLORIDA BARGE CANAL PROJECT)

Oklawaha River. Marion, Putnam Counties Florida.

South Atlantic Division

Jacksonville District

Operating Purposes

Fish/Wildlife
Recreation
Navigation
Water Quality

Authorized Purposes

Fish/Wildlife
Recreation
Navigation
Water Quality

(continued)

Authorizing Laws

PL 85-824, PL 93-205
PL 78-534, PL 87-874
PL 77-875
PL 92-500, PL 95-217

1. The pool created by Rodman Dam is known as Lake Oklawaha.
2. PL 93-205 authorizing enhancement of fish and wildlife was amended by PL 95-632, PL 96-159 and PL 97-304.
3. This project has been deauthorized by Section 402 of PL 101-640 (WRDA 1990). The project lands and facilities are scheduled to be turned over to the State of Florida in November 1992.

ABERDEEN LOCK AND DAM

Tombigbee River. Monroe County Mississippi.

South Atlantic Division
Mobile District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Water Quality	Water Quality	PL 92-500
Navigation	Navigation	PL 79-525
	Recreation	PL 78-534

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

ALLATOONA LAKE

Etowah River. Bartow County Georgia.

South Atlantic Division
Mobile District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Flood Control	Flood Control	PL 77-228
Recreation	Recreation	PL 78-534
Water Quality	Water Quality	PL 92-500
Water Supply	Water Supply	PL 85-500
Fish/Wildlife	Fish/Wildlife	PL 85-624
	Navigation	PL 77-228
Hydroelectric Power	Hydroelectric Power	PL 77-228

1. The project is not regulated for navigation because it is located distant from the navigation channel and any releases for that purpose would be captured and reregulated by the Alabama Power Co. reservoirs located downstream. Navigation benefits indirectly from the operation of the project for the other authorized purposes.

ARMISTEAD I. SELDEN LOCK AND DAM - WARRIOR LAKE

Black Warrior River. Hale and Greene Counties Alabama.

South Atlantic Division
Mobile District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Water Quality	Water Quality	PL 92-500
	Recreation	PL 76-534
Navigation	Navigation	PL 60-317

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

BAY SPRINGS LOCK AND DAM
Tennessee-Tombigbee Waterway. Tishomingo County Mississippi. South Atlantic Division
Mobile District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Navigation	Recreation	PL 78-534
Fish/Wildlife	Navigation	PL 79-525
Water Quality	Fish/Wildlife	PL 85-624
Water Supply	Water Quality	PL 92-500

1. Access and facilities are provided for recreation but water is not controlled for that purpose.
2. Bay Springs Lock and Dam and the Tenn-Tom Waterway acts as a conveyor of water supply for the city of Tupelo, Mississippi.

BUFORD DAM - LAKE SIDNEY LANIER
Chattahoochee River. Forsyth and Gwinnett Counties Georgia. South Atlantic Division
Mobile District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Flood Control	Flood Control	PL 79-525
Fish/Wildlife	Fish/Wildlife	PL 85-624
Navigation	Navigation	PL 79-525
Hydroelectric Power	Hydroelectric Power	PL 79-525
Water Supply	Water Supply	PL 79-525
Water Quality	Water Quality	PL 79-525
Recreation	Recreation	PL 78-534

CARTERS DAM AND LAKE
Coosawattee River. Murray County Georgia. South Atlantic Division
Mobile District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Water Quality	Navigation	PL 79-14
	Water Quality	PL 92-500
	Recreation	PL 78-534
Hydroelectric Power	Hydroelectric Power	PL 79-14
Flood Control	Flood Control	PL 79-14

1. The project is not regulated for navigation because it is located distant from the navigation channel and any releases for that purpose would be captured and reregulated by the Alabama Power Co. reservoirs located downstream. Navigation benefits indirectly from the operation of the project for the other authorized purposes.
2. Access and facilities are provided for recreation but water is not controlled for that purpose.

CLAIBORNE LOCK AND DAM

South Atlantic Division

Alabama River. Monroe County Alabama.

Mobile District

Operating PurposesNavigation
Water QualityAuthorized PurposesNavigation
Water Quality
RecreationAuthorizing LawsPL 79-14
PL 92-500
PL 78-534

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

COFFEEVILLE LOCK AND DAM

South Atlantic Division

Tombigbee River. Clarke and Choctaw Counties Alabama.

Mobile District

Operating PurposesNavigation
Water QualityAuthorized PurposesRecreation
Navigation
Water QualityAuthorizing LawsPL 78-534
PL 60-317
PL 92-500

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

COLUMBUS LOCK AND DAM

South Atlantic Division

Tombigbee River. Lowndes County Mississippi.

Mobile District

Operating PurposesNavigation
Fish/Wildlife
Water QualityAuthorized PurposesRecreation
Navigation
Fish/Wildlife
Water QualityAuthorizing LawsPL 76-534
PL 79-525
PL 85-624
PL 92-500

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

DEMOPOLIS LOCK AND DAM

South Atlantic Division

Tombigbee River. Sumter and Marengo Counties Alabama.

Mobile District

Operating Purposes

Navigation

Authorized PurposesNavigation
RecreationAuthorizing LawsPL 60-317
PL 78-534

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

GAINESVILLE LOCK AND DAM
Tombigbee River. Sumter and Greene Counties Alabama.

South Atlantic Division
Mobile District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Fish/Wildlife	Fish/Wildlife	PL 85-624
Water Quality	Water Quality	PL 92-500
	Recreation	PL 76-534
Navigation	Navigation	PL 79-525

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

GEORGE W. ANDREWS LOCK AND DAM
Chattahoochee River. Early County Georgia. Houston County Alabama

South Atlantic Division
Mobile District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Navigation	Navigation	PL 79-525
Water Quality	Water Quality	PL 92-500
	Recreation	PL 78-534

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

HOLT LOCK AND DAM
Black Warrior River. Tuscaloosa County Alabama.

South Atlantic Division
Mobile District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Navigation	Navigation	PL 60-317
Hydroelectric Power	Recreation	PL 78-534

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

2. The hydroelectric power project is owned and operated by Alabama Power Co. under a FERC license.

JIM WOODRUFF LOCK AND DAM - LAKE SEMINOLE
Apalachicola River. Gadsden and Jackson Counties Florida.

South Atlantic Division
Mobile District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Fish/Wildlife	Fish/Wildlife	PL 85-624
Hydroelectric Power	Hydroelectric Power	PL 79-525
Navigation	Navigation	PL 79-525
Water Quality	Water Quality	PL 92-500
	Recreation	PL 78-534
Water Supply		

(continued)

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

2. During drought periods, the project is regulated to maintain minimum flows downstream to protect M&I water supply intakes.

JOHN HOLLIS BANKHEAD LOCK AND DAM
Black Warrior River, Tuscaloosa County Alabama.

South Atlantic Division
Mobile District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Hydroelectric Power		
	Recreation	PL 78-534
Navigation	Navigation	PL 80-317

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

2. The hydroelectric power project is owned and operated by Alabama Power Co. under a FERC license.

LOCK A - TENNESSEE-TOMBIGBEE WATERWAY
Canal Section Tennessee Tombigbee Waterway, Monroe County
Mississippi.

South Atlantic Division
Mobile District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Fish/Wildlife	Fish/Wildlife	PL 85-624
Navigation	Navigation	PL 79-525
	Recreation	PL 78-534

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

LOCK B - TENNESSEE-TOMBIGBEE WATERWAY
Canal Section Tennessee Tombigbee Waterway, Monroe County
Mississippi.

South Atlantic Division
Mobile District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
	Recreation	PL 78-534
Navigation	Navigation	PL 79-525
Fish/Wildlife	Fish/Wildlife	PL 85-624

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Water Quality	Water Quality	PL 92-500
Navigation	Navigation	PL 79-525
Fish/Wildlife	Fish/Wildlife	PL 85-624
	Recreation	PL 78-534

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

LOCK D - TENNESSEE-TOMBIGBEE WATERWAY South Atlantic Division
Canal Section Tennessee Tombigbee Waterway. Itawamba County Mobile District
Mississippi.

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Fish/Wildlife	Fish/Wildlife	PL 85-624
Navigation	Navigation	PL 79-525
	Recreation	PL 78-534

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

LOCK E - TENNESSEE-TOMBIGBEE WATERWAY South Atlantic Division
Canal Section Tennessee Tombigbee Waterway. Itawamba and Mobile District
Prentiss Counties Mississippi.

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Navigation	Navigation	PL 79-525
	Recreation	PL 78-534
Fish/Wildlife	Fish/Wildlife	PL 85-624
Water Quality	Water Quality	PL 92-500

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

MILLERS FERRY LOCK AND DAM - WILLIAM "BILL" DANNELLY LAKE South Atlantic Division
Alabama River. Wilcox County Alabama. Mobile District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
	Flood Control	PL 79-14
Navigation	Navigation	PL 79-14
Hydroelectric Power	Hydroelectric Power	PL 79-14
	Recreation	PL 78-534

(continued)

1. There is no flood control storage in the Millers Ferry project. This purpose was deleted prior to construction.

2. Access and facilities are provided for recreation but water is not controlled for that purpose.

OKATIBBEE LAKE

Okatibbee Creek. Lauderdale County Mississippi.

South Atlantic Division
Mobile District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Flood Control	Flood Control	PL 87-674
Water Quality	Water Quality	PL 87-674
Fish/Wildlife	Fish/Wildlife	PL 85-624
Recreation	Recreation	PL 87-674
	Water Supply	PL 67-674

1. Water supply storage has not been used to date.

ROBERT F. HENRY LOCK AND DAM - R.E. "BOB" WOODRUFF RESERVOIR
Alabama River. Autauga and Lowndes Counties Alabama.

South Atlantic Division
Mobile District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
	Recreation	PL 78-534
	Flood Control	PL 79-14
Hydroelectric Power	Hydroelectric Power	PL 79-14
Navigation	Navigation	PL 79-14

1. There is no flood control storage in this project; flood control was deleted from the project plan prior to construction.

2. Access and facilities are provided for recreation but water is not controlled for that purpose.

TOM BEVILL LOCK AND DAM

Tombigbee River. Pickens County Alabama.

South Atlantic Division
Mobile District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
	Recreation	PL 78-534
Navigation	Navigation	PL 79-525
Water Quality	Water Quality	PL 92-500

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Hydroelectric Power	Hydroelectric Power	PL 79-525
Water Quality	Water Quality	PL 92-500
Navigation	Navigation	PL 79-525
Fish/Wildlife	Fish/Wildlife	PL 85-824
Recreation	Recreation	PL 78-534

WEST POINT DAM AND LAKE South Atlantic Division
 Chattahoochee River. Troup County Georgia. Mobile District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Fish/Wildlife	Fish/Wildlife	PL 87-874
Flood Control	Flood Control	PL 87-874
Hydroelectric Power	Hydroelectric Power	PL 87-874
Navigation	Navigation	PL 87-874
Water Quality	Water Quality	PL 92-500
Recreation	Recreation	PL 87-874
Water Supply		

1. During drought periods, the project is regulated to maintain minimum flows downstream to protect M&I water supply intakes.

WILLIAM BACON OLIVER LOCK AND DAM South Atlantic Division
 Black Warrior River. Tuscaloosa County Alabama. Mobile District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Navigation	Navigation	PL 80-317
Water Quality	Water Quality	PL 92-500
	Recreation	PL 78-534

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

HARTWELL DAM AND LAKE South Atlantic Division
 Savannah, Tugaloo and Seneca Rivers. Anderson, Oconee, Savannah District
 and Pickens Counties South Carolina. Hart, Franklin and Stephens
 Counties Georgia

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
	Navigation	PL 81-518
Flood Control	Flood Control	PL 81-518
Water Quality	Water Quality	PL 92-500
Fish/Wildlife	Fish/Wildlife	PL 85-824
Water Supply	Water Supply	PL 85-500
Recreation	Recreation	PL 78-534
Hydroelectric Power	Hydroelectric Power	PL 81-518

1. The Savannah River above the harbor is no longer utilized for commercial navigation.

J. STROM THURMOND DAM AND LAKE
Savannah River. Columbia and Lincoln Counties Georgia.
McCormick County South Carolina

South Atlantic Division
Savannah District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Recreation	Recreation	PL 99-662
Hydroelectric Power	Hydroelectric Power	PL 78-534
Water Supply	Water Supply	PL 85-500
Flood Control	Flood Control	PL 78-534
	Navigation	PL 78-534
Fish/Wildlife	Fish/Wildlife	PL 99-662
Water Quality	Water Quality	PL 92-500

1. The project is no longer operated for navigation due to the lack of commercial traffic on the Savannah River.
2. During drought periods, the project is regulated to maintain minimum flows downstream for water supply for the city of Augusta, Dept. of Energy's Savannah River site, and several other municipal and industrial users, as well as prevent saltwater intrusion upstream of the Savannah Harbor which threatens the fresh supplies of the Savannah National Wildlife Refuge.

NEW SAVANNAH BLUFF LOCK AND DAM
Savannah River. Richmond County Georgia. Aiken County South
Carolina

South Atlantic Division
Savannah District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Recreation	Recreation	PL 78-534
	Navigation	PL 74-409
Water Supply		
Reregulation	Reregulation	PL 81-516

1. The dam is operated by the Corps of Engineers to smooth out, or reregulate, peaking power releases from J. Strom Thurmond Dam. The original purpose of reregulation was to provide adequate depth of flow downstream for navigation. The purpose now is to maintain adequate depth of flow for downstream water supply intakes.
2. The city of Augusta operates and maintains the lock and recreational facilities. There is no commercial navigation on this reach; the lock is operated for recreational boats. The dam also provides sufficient depth of water for boat racing events along the Augusta riverfront.

RICHARD B. RUSSELL DAM AND LAKE
Savannah River. Abbeville and Anderson Counties South Carolina.
Elbert County Georgia

South Atlantic Division
Savannah District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Water Supply	Water Supply	PL 85-500
Hydroelectric Power	Hydroelectric Power	PL 89-769
Flood Control	Flood Control	PL 89-769
Fish/Wildlife	Fish/Wildlife	PL 89-769, PL 99-662
Water Quality	Water Quality	PL 92-500
Recreation	Recreation	PL 89-769

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Fish/Wildlife	Fish/Wildlife	PL 88-253
Water Quality	Water Quality	PL 88-253
Flood Control	Flood Control	PL 88-253
Water Supply	Water Supply	PL 88-253
Recreation	Recreation	PL 88-253

FALLS LAKE
Neuse River. Wake, Durham and Granville Counties North Carolina.
South Atlantic Division
Wilmington District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Flood Control	Flood Control	PL 89-298
Water Supply	Water Supply	PL 89-298
Recreation	Recreation	PL 89-298
Water Quality	Water Quality	PL 89-298
Fish/Wildlife	Fish/Wildlife	PL 89-298

JOHN H. KERR DAM AND RESERVOIR
Roanoke River. Mecklenburg, Charlotte, Halifax Counties Virginia. Warren, Vance, Granville Counties North Carolina
South Atlantic Division
Wilmington District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Recreation	Recreation	PL 78-534
	Low Flow Augmentation	PL 78-534
Water Supply	Water Supply	PL 85-500
Flood Control	Flood Control	PL 78-534
Hydroelectric Power	Hydroelectric Power	PL 78-534
Fish/Wildlife	Fish/Wildlife	PL 85-824

1. John H. Kerr is not regulated for low flow augmentation since the Federal Energy Regulatory Commission assigned that requirement to the two Virginia Power Company projects located downstream. These projects, Gaston and Roanoke Rapids, are operating under project license No. 2009.

PHILPOTT LAKE
Smith River. Franklin, Henry and Patrick Counties Virginia.
South Atlantic Division
Wilmington District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Hydroelectric Power	Hydroelectric Power	PL 78-534
Flood Control	Flood Control	PL 78-534
Water Supply	Water Supply	PL 85-500
Recreation	Recreation	PL 78-534
Fish/Wildlife	Fish/Wildlife	PL 85-824
Low Flow Augmentation	Low Flow Augmentation	PL 78-534

Operating Purposes

Water Supply
Recreation
Fish/Wildlife
Flood Control

Authorized Purposes

Water Supply
Recreation
Fish/Wildlife
Flood Control

Authorizing Laws

PL 85-500
PL 78-534
PL 85-824
PL 79-528

BEAR DAM (MERCED COUNTY STREAM GROUP)
Bear Creek, Mariposa County California.

South Pacific Division
Sacramento District

Operating Purposes
Flood Control

Authorized Purposes
Flood Control

Authorizing Laws
PL 78-534

BLACK BUTTE LAKE
Stony Creek, Tehama County California.

South Pacific Division
Sacramento District

Operating Purposes
Flood Control
Irrigation
Recreation

Authorized Purposes
Flood Control
Irrigation
Recreation

Authorizing Laws
PL 78-534
PL 78-534
PL 78-534

BUCHANAN DAM - H.V. EASTMAN LAKE
Chowchilla River, Madera County California.

South Pacific Division
Sacramento District

Operating Purposes
Flood Control
Irrigation
Recreation

Authorized Purposes
Flood Control
Irrigation
Recreation

Authorizing Laws
PL 87-874
PL 87-874
PL 87-874

BURNS DAM (MERCED COUNTY STREAM GROUP)
Burns Creek, Merced County California.

South Pacific Division
Sacramento District

Operating Purposes
Flood Control

Authorized Purposes
Flood Control

Authorizing Laws
PL 78-534

COYOTE VALLEY DAM - LAKE MENDOCINO
East Fork, Russian River, Mendocino County California.

South Pacific Division
Sacramento District

Operating Purposes
Flood Control
Water Supply
Recreation
Water Quality

Authorized Purposes
Flood Control
Water Supply
Recreation
Water Quality
Irrigation

Authorizing Laws
PL 81-516
PL 81-516
PL 78-534
PL 92-500
PL 81-516

1. Water is not controlled for irrigation. Downstream irrigators draw water directly from the river.

Operating Purposes

Water Quality
Flood Control
Water Supply
Recreation

Authorized Purposes

Water Quality
Flood Control
Water Supply
Recreation

Authorizing Laws

PL 92-500
PL 87-874
PL 87-874
PL 87-874

FARMINGTON DAM

Littlejohn Creek. San Joaquin and Stanislaus Counties
California.

South Pacific Division
Sacramento District

Operating Purposes

Flood Control

Authorized Purposes

Flood Control

Authorizing Laws

PL 78-534

HIDDEN DAM - HENSLEY LAKE

Fresno River. Madera County California.

South Pacific Division
Sacramento District

Operating Purposes

Flood Control
Irrigation
Recreation

Authorized Purposes

Flood Control
Irrigation
Recreation

Authorizing Laws

PL 87-874
PL 87-874
PL 87-874

ISABELLA LAKE

Kern River. Kern County California.

South Pacific Division
Sacramento District

Operating Purposes

Flood Control
Irrigation
Recreation

Authorized Purposes

Flood Control
Irrigation
Recreation

Authorizing Laws

PL 78-534
PL 78-534
PL 78-534

MARIPOSA DAM (MERCED COUNTY STREAM GROUP)

Mariposa Creek. Mariposa County California.

South Pacific Division
Sacramento District

Operating Purposes

Flood Control

Authorized Purposes

Flood Control

Authorizing Laws

PL 78-534

MARTIS CREEK LAKE

Martis Creek. Nevada County California.

South Pacific Division
Sacramento District

Operating Purposes

Flood Control
Recreation

Authorized Purposes

Flood Control
Recreation
Water Supply

Authorizing Laws

PL 87-874
PL 78-534
PL 85-500

1. Future water supply has been approved by the Chief of Engineers (4 April 1968)
however presently there is no sponsor for the storage space.

NEW HOGAN LAKE

Calaveras River. Calaveras County California.

South Pacific Division
Sacramento DistrictOperating PurposesFlood Control
Water Supply
Recreation
IrrigationAuthorized PurposesFlood Control
Water Supply
Recreation
IrrigationAuthorizing LawsPL 78-534
PL 78-534
PL 78-534
PL 78-534**OWENS DAM (MERCED COUNTY STREAM GROUP)**

Owens Creek. Mariposa County California.

South Pacific Division
Sacramento DistrictOperating Purposes

Flood Control

Authorized Purposes

Flood Control

Authorizing Laws

PL 78-534

PINE FLAT LAKE AND KINGS RIVER

Kings River. Fresno County California.

South Pacific Division
Sacramento DistrictOperating PurposesFlood Control
Irrigation
RecreationAuthorized PurposesFlood Control
Irrigation
RecreationAuthorizing LawsPL 78-534
PL 78-534
PL 78-534**SUCCESS LAKE**

Tule River. Tulare County California.

South Pacific Division
Sacramento DistrictOperating PurposesFlood Control
Irrigation
RecreationAuthorized PurposesFlood Control
Irrigation
RecreationAuthorizing LawsPL 78-534
PL 78-534
PL 78-534**TERMINUS DAM - LAKE KAWEAH**

Kaweah River. Tulare County California.

South Pacific Division
Sacramento DistrictOperating PurposesFlood Control
Irrigation
RecreationAuthorized PurposesFlood Control
Irrigation
RecreationAuthorizing LawsPL 78-534
PL 78-534
PL 78-534**ALAMO LAKE**

Bill Williams River. La Paz and Mojave Counties Arizona.

South Pacific Division
Los Angeles DistrictOperating PurposesWater Supply
Recreation
Fish/Wildlife
Flood ControlAuthorized PurposesWater Supply
Recreation
Fish/Wildlife
Flood Control
Hydroelectric PowerAuthorizing LawsPL 78-534
PL 78-534
PL 93-205
PL 78-534
PL 78-534

(continued)

1. Hydroelectric power facilities have never been constructed because studies made by the U.S. Bureau of Reclamation for the Corps indicate that hydroelectric power would not be economically feasible to develop.

BREA DAM (SANTA ANA RIVER BASIN)
Brea Creek. Orange County California.

South Pacific Division
Los Angeles District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Flood Control	Flood Control Recreation	PL 74-738 PL 78-534

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

CARBON CANYON DAM (SANTA ANA RIVER BASIN)
Carbon Creek. Orange County California.

South Pacific Division
Los Angeles District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Flood Control	Flood Control Recreation	PL 74-738 PL 78-534

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

FULLERTON DAM (SANTA ANA RIVER BASIN)
Fullerton Creek. Orange County California.

South Pacific Division
Los Angeles District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Flood Control	Flood Control Recreation	PL 74-738 PL 78-534

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

HANSEN DAM (LOS ANGELES COUNTY DRAINAGE AREA)
Tujunga Wash. Los Angeles County California.

South Pacific Division
Los Angeles District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Flood Control	Flood Control Water Conservation Recreation	PL 74-738 PL 99-662 PL 78-534, PL 99-662

(continued)

1. The Water Resources Development Act of 1986 (PL 99-662) authorized the Secretary to contract for the removal and sale of dredged material from the reservoir for the purpose of facilitating flood control, recreation and water conservation. It authorized to be appropriated annually an amount not to exceed the amount of funds received from the aforementioned sale of dredged material to be used to a) construct, operate and maintain recreational facilities at the project, and b) to the extent consistent with the other authorized project purposes, to facilitate water conservation and ground water recharge measures. These uses are being planned.

2. Access and facilities are provided for recreation but water is not controlled for that purpose.

LOPEZ DAM (LOS ANGELES COUNTY DRAINAGE AREA)
Pacoima Wash. Los Angeles County California.

South Pacific Division
Los Angeles District

Operating Purposes
Flood Control

Authorized Purposes
Flood Control

Authorizing Laws
PL 74-738

MATHEWS CANYON DAM
Mathews Canyon Wash. Lincoln County Nevada.

South Pacific Division
Los Angeles District

Operating Purposes
Flood Control

Authorized Purposes
Flood Control
Recreation

Authorizing Laws
PL 81-518
PL 78-534

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

MOJAVE RIVER RESERVOIR
Mojave River. San Bernardino County California.

South Pacific Division
Los Angeles District

Operating Purposes
Flood Control

Authorized Purposes
Flood Control
Recreation

Authorizing Laws
PL 86-845
PL 78-534

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

PAINTED ROCK DAM
Gila River. Maricopa County Arizona.

South Pacific Division
Los Angeles District

Operating Purposes
Flood Control

Authorized Purposes
Flood Control
Recreation

Authorizing Laws
PL 81-518
PL 78-534

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

Pine Canyon Wash. Lincoln County Nevada.

Los Angeles District

Operating Purposes

Flood Control

Authorized Purposes

Flood Control

Recreation

Authorizing Laws

PL 81-516

PL 78-534

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

PRADO DAM (SANTA ANA RIVER BASIN)

Santa Ana River. Riverside and San Bernardino Counties California.

South Pacific Division

Los Angeles District

Operating Purposes

Flood Control

Water Conservation

Fish/Wildlife

Authorized Purposes

Flood Control

Water Conservation

Recreation

Fish/Wildlife

Authorizing Laws

PL 74-738

PL 74-738

PL 78-534

PL 85-624, PL 93-205

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

SAN ANTONIO DAM (SANTA ANA RIVER BASIN)

San Antonio Creek. Los Angeles and San Bernardino Counties California.

South Pacific Division

Los Angeles District

Operating Purposes

Flood Control

Water Conservation

Authorized Purposes

Flood Control

Authorizing Laws

PL 74-738, PL 75-761

1. San Antonio Dam is operated for water conservation by reducing flood control releases to rates of discharge that can be effectively recharged to groundwater in spreading grounds owned by local water supply agencies. This regulation is performed using the lower 15% of the reservoir storage space during periods when forecasted inflow indicates the storage space is not required for flood control.

SANTA FE DAM (LOS ANGELES COUNTY DRAINAGE AREA)

San Gabriel River. Los Angeles County California.

South Pacific Division

Los Angeles District

Operating Purposes

Flood Control

Water Conservation

Authorized Purposes

Flood Control

Recreation

Authorizing Laws

PL 74-738

PL 78-534

1. Following runoff events, water is temporarily stored in the debris pool to recharge groundwater in spreading grounds owned by local water supply agencies.

2. Access and facilities are provided for recreation but water is not controlled for that purpose.

Operating Purposes

Flood Control

Authorized Purposes

Flood Control

Recreation

Authorizing Laws

PL 74-738, PL 75-761

PL 78-534

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

WHITLOW RANCH DAM

Queen Creek. Pinal County Arizona.

South Pacific Division

Los Angeles District

Operating Purposes

Flood Control

Authorized Purposes

Flood Control

Authorizing Laws

PL 79-526

WHITTIER NARROWS DAM (LOS ANGELES COUNTY DRAINAGE AREA)

Rio Hondo and San Gabriel River. Los Angeles County California.

South Pacific Division

Los Angeles District

Operating Purposes

Flood Control

Water Conservation

Authorized Purposes

Flood Control

Recreation

Authorizing Laws

PL 74-738

PL 78-534

1. Los Angeles County Department of Public Works constructed a dike within the reservoir to protect lessees from being flooded from small impoundments of water. The dike's permit storage of 2500 ac-ft of storm runoff which can be released to recharge the groundwater in spreading grounds downstream from the dam. The operation does not affect the flood control capability of the project.

2. Access and facilities are provided for recreation but water is not controlled for that purpose.

ABIQUIU DAM

Rio Chama. Rio Arriba County New Mexico.

Southwestern Division

Albuquerque District

Operating Purposes

Flood Control
Sediment Control
Water Supply

Authorized Purposes

Flood Control
Sediment Control
Water Supply

Authorizing Laws

PL 80-858, PL 81-516, PL 86-645
PL 81-516, PL 86-645
PL 97-140, PL 100-522

1. Water supply includes municipal, irrigation, domestic and industrial uses and provides recreation and fish and wildlife benefits. PL 87-483 authorized the San Juan-Chama Project to transfer interbasin water; PL 97-140 authorized the storage of that water in Abiquiu Reservoir.

COCHITI LAKE

Rio Grande. Sandoval County New Mexico.

Southwestern Division

Albuquerque District

Operating Purposes

Fish/Wildlife
Flood Control
Sediment Control
Recreation

Authorized Purposes

Fish/Wildlife
Flood Control
Sediment Control
Recreation

Authorizing Laws

PL 88-293
PL 88-645
PL 88-645
PL 88-293

CONCHAS LAKE

Canadian River. San Miguel County New Mexico.

Southwestern Division

Albuquerque District

Operating Purposes

Flood Control

Irrigation

Authorized Purposes

Recreation
Flood Control
Hydroelectric Power
Irrigation

Authorizing Laws

PL 78-534
PL 74-738
PL 74-738
PL 74-738

1. Project has 150 kilowatt hydroelectric power plant originally designed to provide electrical power to the project. It is now used to provide emergency power to the project.

2. Access and facilities are provided for recreation but water is not controlled for that purpose.

GALISTEO DAM

Rio Grande. Santa Fe County New Mexico.

Southwestern Division

Albuquerque District

Operating Purposes

Flood Control
Sediment Control

Authorized Purposes

Flood Control
Sediment Control

Authorizing Laws

PL 86-645
PL 86-845

JEMEZ CANYON DAM
Jemez River. Sandoval County New Mexico.

Southwestern Division
Albuquerque District

Operating Purposes

Flood Control
Sediment Control

Authorized Purposes

Flood Control
Sediment Control

Authorizing Laws

PL 80-858, PL 81-516, PL 86-645
PL 81-516, PL 86-645

JOHN MARTIN RESERVOIR
Arkansas River. Bent County Colorado.

Southwestern Division
Albuquerque District

Operating Purposes

Flood Control
Irrigation
Recreation
Fish/Wildlife

Authorized Purposes

Flood Control
Irrigation
Recreation
Fish/Wildlife

Authorizing Laws

PL 74-738
PL 74-736
PL 89-298
PL 89-298

SANTA ROSA DAM AND LAKE
Pecos River. Guadalupe County New Mexico.

Southwestern Division
Albuquerque District

Operating Purposes

Flood Control
Sediment Control
Irrigation

Authorized Purposes

Flood Control
Sediment Control
Irrigation

Authorizing Laws

PL 83-780
PL 83-780
PL 83-780

TRINIDAD LAKE
Purgatoire River. Las Animas County Colorado.

Southwestern Division
Albuquerque District

Operating Purposes

Recreation
Flood Control
Irrigation
Sediment Control

Authorized Purposes

Recreation
Flood Control
Irrigation
Sediment Control

Authorizing Laws

PL 78-534
PL 65-500
PL 85-500
PL 85-500

TWC RIVERS DAM
Rio Hondo. Chaves County New Mexico.

Southwestern Division
Albuquerque District

Operating Purposes

Flood Control
Sediment Control

Authorized Purposes

Flood Control
Sediment Control

Authorizing Laws

PL 83-780
PL 83-780

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Flood Control	Flood Control	PL 90-483
Water Supply	Water Supply	PL 90-483
	Recreation	PL 90-483
Fish/Wildlife	Fish/Wildlife	PL 90-483

1. Access and facilities are provided for recreation but water is not controlled for that purpose.
2. The State of Texas permit for water appropriation issued to the Brazos River Authority requires that whenever the flow in Aquilla Creek downstream from the dam is less than 0.5 cfs, the Authority will release at least 0.5 cfs through the dam for domestic and livestock uses and for the benefit of fish and wildlife.

BARDWELL LAKE Southwestern Division
Waxahachie Creek. Ellis County Texas. Fort Worth District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Flood Control	Flood Control	PL 86-399
Water Supply	Water Supply	PL 86-399
	Recreation	PL 76-534

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

BELTON LAKE Southwestern Division
Leon River. Bell County Texas. Fort Worth District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Flood Control	Flood Control	PL 79-526, PL 83-780
Irrigation	Irrigation	PL 79-526
Water Supply	Water Supply	PL 63-760
	Hydroelectric Power	PL 83-760
	Recreation	PL 76-534

1. Post-authorization studies have determined that Federal hydroelectric power is not economically feasible.
2. Access and facilities are provided for recreation but water is not controlled for that purpose.

Clear Fork of the Trinity River, Tarrant County Texas.

Operating Purposes

Flood Control

Water Supply

Authorized Purposes

Flood Control

Navigation

Water Supply

Recreation

Authorizing Laws

PL 79-14

PL 79-14

PL 84-782, PL 91-282, PL 92-222,

PL 97-140

PL 78-534

1. Navigation has not been developed on the Trinity River. The Secretary of the Army has contracted for the interim use of navigation storage space for M&I water supply until such time as the space is needed for navigation.

2. Access and facilities are provided for recreation but water is not controlled for that purpose.

CANYON LAKE

Guadalupe River, Comal County Texas.

Southwestern Division
Fort Worth DistrictOperating Purposes

Flood Control

Streamflow Regulation

Water Supply

Fish/Wildlife

Authorized Purposes

Flood Control

Streamflow Regulation

Hydroelectric Power

Water Supply

Recreation

Authorizing Laws

PL 79-14, PL 83-780

PL 79-14, PL 83-780

PL 79-14, PL 83-780

PL 83-780

PL 78-534

1. Federal hydroelectric power was not developed because post-authorization studies indicated it to be economically infeasible.

2. Access and facilities are provided for recreation but water is not controlled for that purpose.

3. Guadalupe-Blanco River Authority has developed a hydroelectric power project at Canyon Lake under license from the FERC. The license requires that minimum releases must be maintained for fish and wildlife.

COOPER LAKE

South Sulphur River, Delta and Hopkins Counties Texas.

Southwestern Division
Fort Worth DistrictOperating Purposes

Flood Control

Water Supply

Authorized Purposes

Flood Control

Recreation

Water Supply

Authorizing Laws

PL 84-218

PL 78-534

PL 84-218

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

FERRELL'S BRIDGE DAM - LAKE O' THE PINES
Big Cypress Creek. Marion County Texas.

Southwestern Division
Fort Worth District

Operating Purposes

Water Quality
Flood Control
Water Supply

Authorized Purposes

Water Quality
Flood Control
Water Supply
Recreation

Authorizing Laws

PL 92-500
PL 79-526
PL 84-160
PL 78-534, PL 79-526

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

GRANGER DAM AND LAKE

San Gabriel River. Williamson County Texas.

Southwestern Division
Fort Worth District

Operating Purposes

Water Supply

Flood Control

Authorized Purposes

Water Supply
Recreation
Flood Control

Authorizing Laws

PL 83-780, PL 87-874
PL 78-534, PL 79-526
PL 83-760, PL 87-874

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

GRAPEVINE LAKE

Denton Creek. Tarrant and Denton Counties Texas.

Southwestern Division
Fort Worth District

Operating Purposes

Flood Control

Water Supply

Authorized Purposes

Flood Control
Navigation
Recreation
Water Supply

Authorizing Laws

PL 79-14
PL 79-14
PL 78-534
PL 79-14

1. Secretary of the Army has contracted with the city of Grapevine for the interim use of navigation storage space for municipal water supply until such time as the space is needed for navigation.

2. Access and facilities are provided for recreation but water is not controlled for that purpose.

HORDS CREEK LAKE

Hords Creek. Coleman County Texas.

Southwestern Division
Fort Worth District

Operating Purposes

Flood Control

Water Supply

Authorized Purposes

Flood Control
Recreation
Water Supply

Authorizing Laws

PL 77-228
PL 78-534
PL 77-228

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

JOE POOL LAKE

Mountain Creek. Dallas County Texas.

Southwestern Division

Fort Worth District

Operating PurposesWater Supply
Flood ControlAuthorized PurposesWater Supply
Flood Control
Fish/Wildlife
RecreationAuthorizing LawsPL 89-298
PL 89-298
PL 89-298
PL 89-298

1. Permit to appropriate state water issued to the Trihity River Authority (TRA) by the State of Texas requires that in order to maintain streamflows in the channel between Joe Pool Lake and Mountain Creek Reservoir, TRA will release a minimum of 5 cfs in conformance with the release schedule. Fish and wildlife benefit incidentally from these releases.

2. Decisions on water releases from the conservation pool are made by users permitted by the State of Texas.

3. Access and facilities are provided for recreation but water is not controlled for that purpose.

LAVON LAKE

East Fork of the Trinity River. Collin County Texas.

Southwestern Division

Fort Worth District

Operating PurposesWater Supply
Flood ControlAuthorized PurposesWater Supply
Flood Control
RecreationAuthorizing LawsPL 79-525, PL 87-874
PL 79-14, PL 79-525
PL 78-534

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

LEWISVILLE LAKE

Elm Fork of the Trinty River. Denton County Texas.

Southwestern Division

Fort Worth District

Operating PurposesWater Supply
Flood ControlAuthorized PurposesRecreation
Fish/Wildlife
Water Supply
Flood ControlAuthorizing LawsPL 89-298
PL 89-298
PL 79-14, PL 89-298
PL 79-14, PL 89-298

1. Fish and wildlife and recreation benefit incidentally from the regulation of the project for its other authorized purposes. Water is not controlled for these purposes.

Operating Purposes

Water Supply
Flood Control

Authorized Purposes

Water Supply
Flood Control
Recreation

Authorizing Laws

PL 83-780
PL 83-780
PL 78-534

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

NORTH SAN GABRIEL DAM - GEORGETOWN LAKE

North Fork of the San Gabriel River. Williamson County Texas.

Southwestern Division

Fort Worth District

Operating Purposes

Flood Control
Water Supply

Authorized Purposes

Flood Control
Recreation
Water Supply

Authorizing Laws

PL 87-874
PL 78-534
PL 87-874

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

O. C. FISHER DAM AND LAKE

North Concho River. Tom Green County Texas.

Southwestern Division

Fort Worth District

Operating Purposes

Flood Control
Water Supply

Authorized Purposes

Flood Control
Water Supply
Recreation
Fish/Wildlife

Authorizing Laws

PL 77-228, PL 78-534
PL 78-534
PL 77-228, PL 78-534
PL 77-228, PL 78-534

1. Recreation and fish and wildlife benefit incidentally from the regulation of the project for the other authorized purposes. Water is not controlled for these purposes.

PROCTOR LAKE

Leon River. Comanche County Texas.

Southwestern Division

Fort Worth District

Operating Purposes

Flood Control
Water Supply

Authorized Purposes

Flood Control
Recreation
Water Supply

Authorizing Laws

PL 83-780
PL 78-534
PL 83-780

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Water Quality	Water Quality	PL 92-500
	Fish/Wildlife	PL 89-298
Flood Control	Flood Control	PL 79-14, PL 89-298
Water Supply	Water Supply	PL 89-298
	Recreation	PL 89-298

1. Recreation and fish and wildlife benefit incidentally from regulation of the project for the other authorized purposes. Water is not controlled for these purposes.

SAM RAYBURN DAM AND RESERVOIR Southwestern Division
Angelina River. Jasper County Texas. Fort Worth District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Hydroelectric Power	Hydroelectric Power	PL 79-14
	Fish/Wildlife	PL 79-14
	Recreation	PL 79-14
Water Supply	Water Supply	PL 79-14
Flood Control	Flood Control	PL 79-14
	Navigation	PL 79-14

1. Currently, there is no need to release water from the conservation storage space in support of navigation activities because there is no navigation downstream.

2. Recreation and fish and wildlife benefit incidentally from regulation of the project for the other authorized purposes. Water is not controlled for these purposes.

SOMERVILLE LAKE Southwestern Division
Yegua Creek. Burleson and Washington Counties Texas. Fort Worth District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Flood Control	Flood Control	PL 83-780
Water Supply	Water Supply	PL 83-780
	Recreation	PL 78-534

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

STILLHOUSE HOLLOW LAKE Southwestern Division
Lampasas River. Bell County Texas. Fort Worth District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Flood Control	Flood Control	PL 83-780
Water Supply	Water Supply	PL 83-780
	Recreation	PL 78-534

(continued)

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

TOWN BLUFF DAM - B.A. STEINHAGEN LAKE
Neches River, Tyler County Texas.

Southwestern Division
Fort Worth District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
	Hydroelectric Power	PL 79-14
Reregulation	Reregulation	PL 79-14
Water Supply	Water Supply	PL 80-858
	Recreation	PL 78-534

1. Hydroelectric power is marketed by Sam Dam Municipal Power as a run-of-the river power plant. No water control decisions are made for hydropower production.

2. Access and facilities are provided for recreation but water is not controlled for that purpose.

WACO LAKE
Bosque River, McLennan County Texas.

Southwestern Division
Fort Worth District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Flood Control	Flood Control	PL 83-780
Water Supply	Water Supply	PL 83-780
	Recreation	PL 78-534

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

WHITNEY LAKE
Brazos River, Bosque and Hill Counties Texas.

Southwestern Division
Fort Worth District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
	Fish/Wildlife	PL 77-228
Hydroelectric Power	Hydroelectric Power	PL 77-228, PL 78-534
	Recreation	PL 77-228, PL 78-534
Water Supply	Water Supply	PL 85-230
Flood Control	Flood Control	PL 77-228, PL 78-534

1. Recreation and fish and wildlife benefit incidentally from the regulation of the project for the other authorized purposes. Water is not controlled for these purposes.

WRIGHT PATMAN DAM AND LAKE

Sulphur River. Bowie and Cass Counties Texas.

Southwestern Division

Fort Worth District

Operating PurposesFlood Control
Water SupplyAuthorized PurposesFlood Control
Water Supply
RecreationAuthorizing LawsPL 79-526, PL 84-218
PL 84-218
PL 78-534

1. Under the conservation storage contract between the Federal Government and the city of Texarkana, Texas, the Government shall have the right to withdraw water at a rate of 1D cfs for the maintenance of minimum flow in the Sulphur River below Wright Patman Dam.
2. Access and facilities are provided for recreation but water is not controlled for that purpose.

ADDICKS DAM

South Mayde Creek, Tributary of Buffalo Bayou. Harris County Texas.

Southwestern Division

Galveston District

Operating Purposes

Flood Control

Authorized Purposes

Flood Control

Authorizing Laws

PL 75-685

BARKER DAM

Buffalo Bayou. Harris and Fort Bend Counties Texas.

Southwestern Division

Galveston District

Operating Purposes

Flood Control

Authorized Purposes

Flood Control

Authorizing Laws

PL 75-685

ARTHUR V. ORMAND LOCK AND DAM AND WINTHROP ROCKEFELLER LAKE

Arkansas River. Conway County Arkansas.

Southwestern Division

Little Rock District

Operating Purposes

Navigation

Authorized PurposesNavigation
Recreation
Fish/Wildlife
Water Supply
IrrigationAuthorizing LawsPL 79-525
PL 79-525
PL 79-525
PL 100-202
PL 100-202

1. PL 88-645 authorized incorporation of river and harbor and flood control plans for the Arkansas River Basin into a single plan of development and made all previous authorizations applicable to a combined plan of development.
2. Recreation and fish and wildlife benefit incidentally from the project's regulation for navigation. Water is not controlled for these purposes.
3. Irrigation and water supply have not been implemented.

BEAVER LAKE

White River, Carroll County Arkansas.

Southwestern Division
Little Rock DistrictOperating PurposesHydroelectric Power
Water Supply

Fish/Wildlife
Flood ControlAuthorized PurposesHydroelectric Power
Water Supply
Recreation
Fish/Wildlife
Flood ControlAuthorizing LawsPL 83-780
PL 83-780, PL 85-500
PL 83-780
PL 85-624
PL 83-780

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

BLUE MOUNTAIN LAKE

Petit Jean River, Yell County Arkansas.

Southwestern Division
Little Rock DistrictOperating Purposes

Flood Control

Authorized PurposesRecreation
Flood ControlAuthorizing LawsPL 83-780
PL 75-761

1. PL 86-645 authorized incorporation of river and harbor and flood control plans for the Arkansas River Basin into a single plan of development and made all previous authorizations applicable to a combined plan of development.

2. Access and facilities are provided for recreation but water is not controlled for that purpose.

BULL SHOALS LAKE

White River, Baxter and Marion Counties Arkansas.

Southwestern Division
Little Rock DistrictOperating PurposesHydroelectric Power

Flood Control
Water Supply
Fish/WildlifeAuthorized PurposesHydroelectric Power
Recreation
Flood Control
Water Supply
Fish/WildlifeAuthorizing LawsPL 77-228, PL 75-761
PL 77-228, PL 75-761
PL 77-228, PL 75-761
PL 85-500
PL 77-228, PL 85-624, PL 75-761

1. PL 77-228 modified the plan of development described in Flood Control Committee, Doc 1, 75th Congr. and authorized by PL 75-761.

2. Access and facilities are provided for recreation but water is not controlled for that purpose.

CLEARWATER LAKE

Black River, Reynolds and Wayne Counties Missouri.

Southwestern Division
Little Rock DistrictOperating Purposes

Flood Control

Authorized PurposesFlood Control
RecreationAuthorizing LawsPL 75-761
PL 83-780

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

DARDANELLE LOCK AND DAM

Arkansas River. Pope and Yell Counties Arkansas.

Southwestern Division

Little Rock District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
	Flood Control	PL 79-525
	Irrigation	PL 100-202
Navigation	Navigation	PL 79-525
	Recreation	PL 79-525
	Fish/Wildlife	PL 79-525
Hydroelectric Power	Hydroelectric Power	PL 79-525
	Water Supply	PL 100-202

1. PL 88-645 authorized incorporation of river and harbor and flood control plans for the Arkansas River Basin into a single plan of development and made all previous authorizations applicable to a combined plan of development.
2. Flood control was deleted from the plan of development during the post-authorization phase.
3. Irrigation and water supply have not been implemented.
4. Recreation and fish and wildlife benefit incidentally from the regulation of the project for the other authorized purposes. Water is not controlled for these purposes.

DAVID D. TERRY LOCK AND DAM

Arkansas River. Pulaski County Arkansas.

Southwestern Division

Little Rock District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Navigation	Navigation	PL 79-525
	Recreation	PL 79-525
	Irrigation	PL 79-525, PL 100-202
	Water Supply	PL 100-202
	Fish/Wildlife	PL 79-525

1. Recreation and fish and wildlife benefit incidentally from the regulation of the project for navigation. Water is not controlled for these purposes.
2. PL 88-645 authorized incorporation of river and harbor and flood control plans for the Arkansas River Basin into a single plan of development and made all previous authorizations applicable to a combined plan of development.
3. Irrigation and water supply have not been implemented.

DEQUEEN LAKE
Rolling Fork River. Sevier County Arkansas.

Southwestern Division
Little Rock District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Fish/Wildlife	Fish/Wildlife	PL 85-500
Water Quality	Water Quality	PL 85-500
	Hydroelectric Power	PL 85-500
	Recreation	PL 83-780
Water Supply	Water Supply	PL 85-500
Flood Control	Flood Control	PL 85-500

1. Access and facilities are provided for recreation but water is not controlled for that purpose.
2. Hydroelectric power was found to be economically infeasible in post-authorization studies.

DIERKS LAKE

Saline River. Howard and Sevier Counties Arkansas.

Southwestern Division
Little Rock District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Water Supply	Water Supply	PL 85-500
	Recreation	PL 83-780
	Hydroelectric Power	PL 85-500
Flood Control	Flood Control	PL 85-500
Fish/Wildlife	Fish/Wildlife	PL 85-500
Water Quality	Water Quality	PL 85-500

1. Access and facilities are provided for recreation but water is not controlled for that purpose.
2. Hydroelectric power was found to be economically infeasible in post-authorization studies.

EMMITT SANDERS LOCK AND DAM

Arkansas River. Jefferson County Arkansas.

Southwestern Division
Little Rock District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Navigation	Navigation	PL 79-525
	Fish/Wildlife	PL 79-525
	Recreation	PL 79-525
	Irrigation	PL 79-525, PL 100-202
	Water Supply	PL 100-202

1. Recreation and fish and wildlife benefit incidentally from the regulation of the project for navigation. Water is not controlled for these purposes.
2. PL 88-646 authorized incorporation of river and harbor and flood control plans for the Arkansas River Basin into a single plan of development and made all previous authorizations applicable to a combined plan of development.
3. Irrigation and water supply have not been implemented.

GILLHAM LAKE

Cossatot River. Howard County Arkansas.

Southwestern Division

Little Rock District

Operating Purposes

Flood Control

Water Quality

Water Supply

Fish/Wildlife

Authorized Purposes

Flood Control

Water Quality

Recreation

Water Supply

Fish/Wildlife

Authorizing Laws

PL 85-500

PL 85-500

PL 83-780

PL 85-500

PL 85-500

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

GREERS FERRY LAKE

Little Red River. Cleburn County Arkansas.

Southwestern Division

Little Rock District

Operating Purposes

Fish/Wildlife

Flood Control

Water Supply

Hydroelectric Power

Authorized Purposes

Fish/Wildlife

Flood Control

Water Supply

Recreation

Hydroelectric Power

Authorizing Laws

PL 83-780, PL 85-824

PL 75-761

PL 85-500

PL 83-780

PL 83-780

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

JAMES W. TRIMBLE LOCK AND DAM - JOHN PAUL HAMMERSCHMIDT LAKE

Arkansas River. Crawford and Sebastian Counties Arkansas.

Southwestern Division

Little Rock District

Operating Purposes

Navigation

Authorized Purposes

Fish/Wildlife

Water Supply

Recreation

Navigation

Irrigation

Authorizing Laws

PL 79-525

PL 100-202

PL 79-525

PL 79-525

PL 100-202

1. PL 86-645 authorized incorporation of river and harbor and flood control plans for the Arkansas River Basin into a single plan of development and made all previous authorizations applicable to a combined plan of development.

2. Recreation and fish and wildlife benefit incidentally from the regulation of the project for navigation. Water is not controlled for these purposes.

3. Irrigation and water supply have not been implemented.

Arkansas River. Jefferson and Lincoln Counties Arkansas.

Southwestern Division
Little Rock DistrictOperating PurposesAuthorized PurposesAuthorizing Laws

Navigation

Fish/Wildlife
Recreation
Irrigation
Navigation
Water SupplyPL 79-525
PL 79-525
PL 79-525, PL 100-202
PL 79-525
PL 100-202

1. Recreation and fish and wildlife benefit incidentally from the regulation of the project for navigation. Water is not controlled for these purposes.

2. PL 86-845 authorized incorporation of river and harbor and flood control plans for the Arkansas River Basin into a single plan of development and made all previous authorizations applicable to a combined plan of development.

3. Irrigation and water supply have not been implemented.

LOCK AND DAM NO. 5 - ARKANSAS RIVER

Arkansas River. Jefferson County Arkansas.

Southwestern Division
Little Rock DistrictOperating PurposesAuthorized PurposesAuthorizing Laws

Irrigation

Irrigation
Fish/Wildlife
Water SupplyPL 79-525, PL 100-202
PL 79-525
PL 100-202

Navigation

Navigation
RecreationPL 79-525
PL 79-525

1. Recreation and fish and wildlife benefit incidentally from the regulation of the project for its other authorized purposes. Water is not controlled for these purposes.

2. PL 86-845 authorized incorporation of river and harbor and flood control plans for the Arkansas River Basin into a single plan of development and made all previous authorizations applicable to a combined plan of development.

3. Water supply has not been implemented.

MILLWOOD LAKE

Little River. Hempstead and Little River Counties Arkansas.

Southwestern Division
Little Rock DistrictOperating PurposesAuthorized PurposesAuthorizing LawsFlood Control
Water Quality
Fish/Wildlife
Water SupplyFlood Control
Water Quality
Fish/Wildlife
Recreation
Water SupplyPL 79-526, PL 85-500
PL 85-500
PL 85-500
PL 83-780
PL 65-500

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

Arkansas River. Pulaaski County Arkansas.

Little Rock District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
	Fish/Wildlife	PL 79-525
	Irrigation	PL 79-525, PL 100-202
	Recreation	PL 79-525
	Water Supply	PL 100-202
Navigation	Navigation	PL 79-525

1. Recreation and fish and wildlife benefit incidentally from the regulation of the project for navigation. Water is not controlled for these purposes.

2. PL 86-645 authorized incorporation of river and harbor and flood control plans for the Arkansas River Basin into a single plan of development and made all previous authorizations applicable to a combined plan of development.

3. Irrigation and water supply have not been implemented.

NIMROD LAKE

Southwestern Division

Fourche LaFave River. Perry County Arkansas.

Little Rock District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
	Hydroelectric Power	PL 86-845
	Recreation	PL 83-780
Flood Control	Flood Control	PL 75-781
Water Supply	Water Supply	PL 85-500

1. PL 86-645 authorized incorporation of river, harbor and flood control plans for the Arkansas River Basin into a single plan of development and made all previous authorizations applicable to a combined plan of development. Also, this Act authorized penstocks and other similar facilities adapted to possible future use in the development of hydroelectric power to be installed in any dam when approved by the Secretary of the Army on the recommendation of the Chief of Engineers and the Federal Power Commission.

2. Hydroelectric power was found to be economically infeasible in post-authorization studies.

3. Access and facilities are provided for recreation but water is not controlled for that purpose.

NORFORK LAKE

Southwestern Division

North Fork River. Baxter County Arkansas.

Little Rock District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
	Recreation	PL 77-228
Water Supply	Water Supply	PL 85-500
Flood Control	Flood Control	PL 75-781
Fish/Wildlife	Fish/Wildlife	PL 77-228, PL 85-624
Hydroelectric Power	Hydroelectric Power	PL 77-228

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

NORRELL LOCK AND DAM

Southwestern Division

Arkansas River. Arkansas County Arkansas.

Little Rock District

Operating PurposesAuthorized PurposesAuthorizing Laws

Navigation

Fish/Wildlife

PL 79-525

Irrigation

PL 79-525, PL 100-202

Navigation

PL 79-525

Water Supply

PL 100-202

Recreation

PL 79-525

1. Recreation and fish and wildlife benefit incidentally from the regulation of the project for navigation. Water is not controlled for these purposes.

2. PL 86-645 authorized incorporation of river and harbor and flood control plans for the Arkansas River Basin into a single plan of development and made all previous authorizations applicable to a combined plan of development.

3. Irrigation and water supply have not been implemented.

OZARK JETTA-TAYLOR LOCK AND DAM

Southwestern Division

Arkansas River. Franklin County Arkansas.

Little Rock District

Operating PurposesAuthorized PurposesAuthorizing Laws

Hydroelectric Power

Recreation

PL 79-525

Irrigation

PL 100-202

Hydroelectric Power

PL 79-525

Fish/Wildlife

PL 79-525

Water Supply

PL 100-202

Navigation

Navigation

PL 79-525

Flood Control

PL 79-525

1. PL 86-645 authorized incorporation of river and harbor and flood control plans for the Arkansas River Basin into a single plan of development and made all previous authorizations applicable to a combined plan of development. Also, this Act authorized penstocks and other similar facilities adapted to possible future use in the development of hydroelectric power to be installed in any dam when approved by the Secretary of the Army on the recommendation of the Chief of Engineers and the Federal Power Commission.

2. Recreation and fish and wildlife benefit incidentally from the regulation of the project for navigation. Water is not controlled for these purposes.

3. Flood control was deleted from the plan of development during the post-authorization phase.

4. Irrigation and water supply have not been implemented.

5. The Southwestern Power Administration makes release decisions for hydroelectric power production.

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Flood Control	Flood Control	PL 77-228, PL 75-781
Water Supply	Water Supply	PL 85-500
Fish/Wildlife	Fish/Wildlife	PL 77-228, PL 85-824, PL 75-781
Hydroelectric Power	Hydroelectric Power	PL 77-228, PL 75-781
	Recreation	PL 77-228, PL 75-761

1. PL 77-228 modified the plan of development in Flood Control Committee, Doc 1, 75th Congr. and authorized by PL 75-781.

2. Access and facilities are provided for recreation but water is not controlled for that purpose.

TOAD SUCK FERRY LOCK AND DAM

Arkansas River. Faulkner and Perry Counties Arkansas.

Southwestern Division
Little Rock District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
	Irrigation	PL 100-202
	Fish/Wildlife	PL 79-525
Navigation	Navigation	PL 79-525
	Recreation	PL 79-525
	Water Supply	PL 100-202

1. PL 86-645 authorized incorporation of river, harbor and flood control plans for the Arkansas River Basin into a single plan of development and made all previous authorizations applicable to a combined plan of development.

2. Recreation and fish and wildlife benefit incidentally from the regulation of the project for navigation. Water is not controlled for these purposes.

3. Irrigation and water supply have not been implemented.

WILBUR D. MILLS LOCK AND DAM

Arkansas River. Arkansas and Desha Counties Arkansas.

Southwestern Division
Little Rock District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
	Water Supply	PL 100-202
	Recreation	PL 79-525
	Fish/Wildlife	PL 79-525
Navigation	Navigation	PL 79-525
Irrigation	Irrigation	PL 79-525, PL 100-202

1. Recreation and fish and wildlife benefit incidentally from regulation of the project for the other authorized purposes. Water is not controlled for these purposes.

2. PL 86-645 authorized incorporation of river and harbor and flood control plans for the Arkansas River Basin into a single plan of development and made all previous authorizations applicable to a combined plan of development.

3. Water supply has not been implemented.

ARCADIA LAKE

Deep Fork River. Oklahoma County Oklahoma.

Southwestern Division

Tulsa District

Operating Purposes

Water Supply

Flood Control

Authorized Purposes

Water Supply

Recreation

Flood Control

Authorizing Laws

PL 91-611

PL 91-611

PL 91-611

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

BIRCH LAKE

Birch Creek. Osage County Oklahoma.

Southwestern Division

Tulsa District

Operating Purposes

Water Supply

Flood Control

Water Quality

Authorized Purposes

Water Supply

Recreation

Flood Control

Water Quality

Fish/Wildlife

Authorizing Laws

PL 87-874

PL 87-874

PL 87-874

PL 87-874

PL 87-874

1. Fish and wildlife and recreation benefit incidentally from regulation of the project for the other authorized purposes. Water is not controlled for these purposes.

BROKEN BOW LAKE

Mountain Fork River. McCurtain County Oklahoma.

Southwestern Division

Tulsa District

Operating Purposes

Water Supply

Flood Control

Fish/Wildlife

Recreation

Hydroelectric Power

Authorized Purposes

Water Supply

Flood Control

Fish/Wildlife

Recreation

Hydroelectric Power

Authorizing Laws

PL 85-500

PL 85-500

PL 85-500

PL 85-500

PL 85-500

CANTON LAKE

North Canadian River. Blaine County Oklahoma.

Southwestern Division

Tulsa District

Operating Purposes

Water Supply

Flood Control

Authorized Purposes

Irrigation

Recreation

Water Supply

Fish/Wildlife

Flood Control

Authorizing Laws

PL 79-528, PL 101-640

PL 75-781

PL 80-658, PL 101-640

PL 75-761

PL 75-761

1. Local irrigation interests have never contracted for the irrigation storage at Canton Lake. The Water Resources Development Act of 1990 (PL 101-640) reassigned all the irrigation storage in the lake to municipal and industrial water supply storage.

2. Fish and wildlife and recreation benefit incidentally from the regulation of the project for the other authorized purposes. Water is not controlled for these purposes.

CHOUTEAU LOCK AND DAM

Verdigrie River. Wagoner County Oklahoma.

Southwestern Division

Tulsa District

Operating Purposes

Authorized Purposes

Authorizing Laws

Navigation

Recreation
Fish/Wildlife
Navigation

PL 79-525
PL 79-525
PL 79-525

1. Fish and wildlife and recreation benefit incidentally from regulation of the project for navigation. Water is not controlled for these purposes.

COPAN LAKE

Little Caney River. Washington County Oklahoma.

Southwestern Division

Tulsa District

Operating Purposes

Authorized Purposes

Authorizing Laws

Water Quality
Flood Control

Navigation

Water Supply

Water Quality
Flood Control
Recreation
Navigation
Fish/Wildlife
Water Supply

PL 87-874
PL 87-874
PL 87-874
PL 87-874
PL 87-874
PL 87-874

1. Fish and wildlife and recreation benefit incidentally from regulation of the project for the other authorized purposes. Water is not controlled for these purposes.

COUNCIL GROVE LAKE

Grand (Neosho) River. Morris County Kansas.

Southwestern Division

Tulsa District

Operating Purposes

Authorized Purposes

Authorizing Laws

Water Supply
Flood Control
Water Quality

Recreation
Water Supply
Flood Control
Water Quality

PL 81-518
PL 81-518
PL 81-518
PL 81-518

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

DENISON DAM - LAKE TEXOMA

Red River. Grayson County Texas. Bryan County Oklahoma

Southwestern Division

Tulsa District

Operating Purposes

Authorized Purposes

Authorizing Laws

Hydroelectric Power

Fish/Wildlife
Water Supply

Flood Control

Hydroelectric Power
Regulation Red River Flows
Fish/Wildlife
Water Supply

Flood Control
Recreation
Navigation

PL 76-888
PL 76-888
PL 76-888
PL 83-273, PL 85-148, PL 91-262,
PL 99-882
PL 76-888
PL 99-882
PL 76-888

(continued)

1. Recreation, regulation of Red River flows, and navigation benefit incidentally from regulation of the project for the other authorized purposes. Water is not controlled for these purposes.

EL DORADO LAKE
Walnut River. Butler County Kansas.

Southwestern Division
Tulsa District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Flood Control	Flood Control	PL 89-298
Fish/Wildlife	Fish/Wildlife	PL 89-298
Water Quality	Water Quality	PL 89-298
Water Supply	Water Supply	PL 89-298
	Recreation	PL 89-298

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

ELK CITY LAKE
Elk River. Montgomery County Kansas.

Southwestern Division
Tulsa District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Recreation	Recreation	PL 77-228
Water Supply	Water Supply	PL 77-228
Fish/Wildlife	Fish/Wildlife	PL 77-228
Flood Control	Flood Control	PL 77-228
Water Quality	Water Quality	PL 77-228

EUFULA LAKE
Canadian River. Okmulgee, McIntosh, Haskell and Pittsburg
Counties Oklahoma.

Southwestern Division
Tulsa District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
	Recreation	PL 78-534
Navigation	Navigation	PL 79-525
	Sediment Control	PL 79-525
Water Supply	Water Supply	PL 79-525
Flood Control	Flood Control	PL 79-525
Fish/Wildlife	Fish/Wildlife	PL 85-624
Hydroelectric Power	Hydroelectric Power	PL 79-525

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

2. Sediment control is achieved defacto by the regulation of the project for its multiple purposes. It requires no water control management.

FALL RIVER LAKE

Fall River. Greenwood County Kansas.

Southwestern Division

Tulsa District

Operating PurposesWater Quality
Flood Control**Authorized Purposes**Water Quality
Flood Control
Recreation
Fish/Wildlife
Water Supply**Authorizing Laws**PL 77-228
PL 77-228
PL 77-228
PL 77-228
PL 77-228

1. Recreation, fish and wildlife and supplemental water supply benefit incidentally from regulation of the project for the other authorized purposes.

FORT GIBSON LAKEGrand (Neosho) River. Mayes, Wagoner and Cherokee Counties
Oklahoma.

Southwestern Division

Tulsa District

Operating PurposesNavigation
Fish/Wildlife
Flood Control
Hydroelectric Power**Authorized Purposes**Navigation
Fish/Wildlife
Flood Control
Hydroelectric Power**Authorizing Laws**PL 77-228, PL 79-525
PL 85-624
PL 77-228, PL 79-525
PL 77-228, PL 79-525**FORT SUPPLY LAKE**

Wolf Creek. Woodward County Oklahoma.

Southwestern Division

Tulsa District

Operating PurposesFlood Control
Water Supply**Authorized Purposes**Flood Control
Water Conservation**Authorizing Laws**PL 74-736
PL 74-736, PL 81-516**GREAT SALT PLAINS LAKE**

Salt Fork of the Arkansas River. Alfalfa County Oklahoma.

Southwestern Division

Tulsa District

Operating Purposes

Flood Control

Authorized PurposesWater Conservation
Flood Control
Recreation**Authorizing Laws**PL 74-736
PL 74-736
PL 78-534

1. A conservation pool was established per PL 74-736 but water control decisions are not made for conservation.
2. Access and facilities are provided for recreation but water is not controlled for that purpose.

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Water Supply	Fish/Wildlife	PL 79-526
Flood Control	Water Supply	PL 79-526
	Flood Control	PL 79-526
	Recreation	PL 79-526

1. Fish and wildlife and recreation benefit incidentally from the regulation of the project for the other authorized purposes. Water is not controlled for these purposes.

HUGO LAKE Southwestern Division
 Kiamiohi River. Choctaw County Oklahoma. Tulsa District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Fish/Wildlife	Fish/Wildlife	PL 85-624, PL 87-874
Flood Control	Flood Control	PL 79-526
Water Supply	Water Supply	PL 87-874
Water Quality	Water Quality	PL 87-874
	Recreation	PL 87-874

1. Recreation benefits incidentally from regulation of the project for the other authorized purposes. Water is not controlled for this purpose.

HULAH LAKE Southwestern Division
 Caney River. Osage County Oklahoma. Tulsa District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Flood Control	Flood Control	PL 74-738
Water Supply	Water Supply	PL 84-843, PL 74-738
Water Quality	Water Quality	PL 92-500
	Recreation	PL 78-534
Navigation	Navigation	PL 74-738
	Fish/Wildlife	PL 85-624

1. Fish and wildlife and recreation benefit incidentally from regulation of the project for the other authorized purposes. Water is not controlled for these purposes.

JOHN REDMOND DAM AND RESERVOIR Southwestern Division
 Grand (Neosho) River. Coffey County Kansas. Tulsa District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Water Supply	Water Supply	PL 81-516
Water Quality	Water Quality	PL 81-516
	Recreation	PL 81-518
Flood Control	Flood Control	PL 81-516
Fish/Wildlife	Fish/Wildlife	PL 85-624

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

KAW LAKE

Arkansas River. Blaine County Oklahoma.

Southwestern Division
Tulsa District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Water Supply	Water Supply	PL 87-874
	Recreation	PL 87-874
Navigation	Navigation	PL 87-874
Water Quality	Water Quality	PL 87-874
Flood Control	Flood Control	PL 87-874
Fish/Wildlife	Fish/Wildlife	PL 87-874

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

KEYSTONE LAKE

Arkansas River. Tulsa County Oklahoma.

Southwestern Division
Tulsa District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Flood Control	Flood Control	PL 81-518
Hydroelectric Power	Hydroelectric Power	PL 81-518
	Fish/Wildlife	PL 81-518
Navigation	Navigation	PL 81-518
Water Supply	Water Supply	PL 81-518
Recreation	Recreation	PL 81-518

1. Fish and wildlife benefit incidentally from the regulation of the project for its other authorized purposes. Water is not controlled for this purpose.

MARION LAKE

Cottonwood River. Marion County Kansas.

Southwestern Division
Tulsa District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Water Supply	Water Supply	PL 81-518
	Recreation	PL 81-518
Water Quality	Water Quality	PL 81-518
Flood Control	Flood Control	PL 81-518

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

NEW GRAHAM LOCK AND DAM
Verdigris River. Wagoner County Oklahoma.

Southwestern Division
Tulsa District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Navigation	Navigation	PL 79-525
	Fish/Wildlife	PL 79-525
	Recreation	PL 79-525

1. Fish and wildlife and recreation benefit incidentally from regulation of the project for navigation. Water is not controlled for these purposes.

OOLOGAH LAKE
Verdigris River. Rogers County Oklahoma.

Southwestern Division
Tulsa District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
	Recreation	PL 75-781
	Fish/Wildlife	PL 75-781
Flood Control	Flood Control	PL 75-781
Water Supply	Water Supply	PL 75-781
Navigation	Navigation	PL 75-781

1. Recreation and fish and wildlife benefit incidentally from regulation of the project for the other authorized purposes. Water is not controlled for these purposes.

OPTIMA LAKE
North Canadian River (Beaver River). Texas County Oklahoma.

Southwestern Division
Tulsa District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
	Recreation	PL 78-534
Flood Control	Flood Control	PL 74-738, PL 81-518
	Water Supply	PL 74-738, PL 81-518

1. The need for water supply has not developed.
2. Access and facilities are provided for recreation but water is not controlled for that purpose.

PAT MAYSE LAKE
Sanders Creek. Lamar County Texas.

Southwestern Division
Tulsa District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Flood Control	Flood Control	PL 87-874
	Recreation	PL 87-874
	Fish/Wildlife	PL 87-874
Water Supply	Water Supply	PL 87-874

1. Fish and wildlife and recreation benefit incidentally from the regulation of the project for the other authorized purposes. Water is not controlled for these purposes.

PEARSON-SKUBITZ BIG HILL LAKE

Big Hill Creek, Labette County Kansas.

Southwestern Division

Tulsa District

Operating PurposesFlood Control
Water SupplyAuthorized PurposesRecreation
Flood Control
Water Supply
Fish/WildlifeAuthorizing LawsPL 87-874
PL 87-874
PL 87-874
PL 87-874

1. Recreation and fish and wildlife benefit incidentally from regulation of the project for the other authorized purposes. Water is not controlled for these purposes.

PINE CREEK LAKE

Little River, McCurtain County Oklahoma.

Southwestern Division

Tulsa District

Operating PurposesWater Supply

Flood Control
Fish/Wildlife
Water QualityAuthorized PurposesWater Supply
Recreation
Flood Control
Fish/Wildlife
Water QualityAuthorizing LawsPL 85-500
PL 85-500
PL 85-500
PL 85-500
PL 85-500

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

ROBERT S. KERR LOCK AND DAM AND RESERVOIR

Arkansas River, Sequoyah County Oklahoma.

Southwestern Division

Tulsa District

Operating PurposesRecreation
Hydroelectric Power

NavigationAuthorized PurposesRecreation
Hydroelectric Power
Fish/Wildlife
NavigationAuthorizing LawsPL 79-525
PL 79-525
PL 79-525
PL 79-525

1. Fish and wildlife benefit incidentally from regulation of the project for the other authorized purposes. Water is not controlled for these purposes.

SARDIS LAKE

Jackfork Creek, Pushmataha County Oklahoma.

Southwestern Division

Tulsa District

Operating PurposesWater Supply

Flood ControlAuthorized PurposesWater Supply
Fish/Wildlife
Flood Control
RecreationAuthorizing LawsPL 87-874
PL 87-874
PL 87-874
PL 87-874

1. Fish and wildlife and recreation benefit incidentally from regulation of the project for the other authorized purposes. Water is not controlled for these purposes.

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
	Fish/Wildlife	PL 87-874
Flood Control	Flood Control	PL 87-874
Water Quality	Water Quality	PL 87-874
	Recreation	PL 87-874
Water Supply	Water Supply	PL 87-874

1. Fish and wildlife and recreation benefit incidentally from regulation of the project for the other authorized purposes. Water is not controlled for these purposes.

TENKILLER FERRY LAKE Southwestern Division
 Illinois River. Cherokee and Sequoyah Counties Oklahoma. Tulsa District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Hydroelectric Power	Hydroelectric Power	PL 79-525
Water Supply	Water Supply	PL 85-500
Fish/Wildlife	Fish/Wildlife	PL 85-824
	Recreation	PL 78-534
Navigation	Navigation	PL 79-525
Flood Control	Flood Control	PL 75-781, PL 79-525

1. Access and facilities are provided for recreation but water is not controlled for that purpose.

TORONTO LAKE Southwestern Division
 Verdigris River. Woodson County Kansas. Tulsa District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Water Quality	Water Quality	PL 77-228
	Recreation	PL 77-228
	Fish/Wildlife	PL 77-228
Flood Control	Flood Control	PL 77-228
Water Supply	Water Supply	PL 77-228, PL 85-500

1. Fish and wildlife and recreation benefit incidentally from regulation of the project for the other authorized purposes. Water is not controlled for these purposes.

W.D. MAYO LOCK AND DAM Southwestern Division
 Arkansas River. LeFlore and Sequoyah Counties Oklahoma. Tulsa District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
	Fish/Wildlife	PL 79-525
Navigation	Navigation	PL 79-525
	Recreation	PL 79-525

1. Fish and wildlife and recreation benefit incidentally from the regulation of the project for navigation. Water is not controlled for these purposes.

WAURIKA LAKE

Beaver Creek. Jefferson County Oklahoma.

Southwestern Division

Tulsa District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Water Quality	Water Quality	PL 88-253
	Recreation	PL 88-253
Fish/Wildlife	Fish/Wildlife	PL 88-253
Flood Control	Flood Control	PL 88-253
	Irrigation	PL 88-253
Water Supply	Water Supply	PL 88-253

1. Waurika Lake is not being operated for irrigation due to the inability of the Jefferson County irrigation district to construct an irrigation facility.

2. Access and facilities are provided for recreation but water is not controlled for that purpose.

WEBBERS FALLS LOCK AND DAM AND RESERVOIR

Arkansas River. Muskogee County Oklahoma.

Southwestern Division

Tulsa District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
	Recreation	PL 79-525
Navigation	Navigation	PL 79-525
	Fish/Wildlife	PL 79-525
Hydroelectric Power	Hydroelectric Power	PL 79-525

1. Fish and wildlife and recreation benefit incidentally from the regulation of the project for the other authorized purposes. Water is not controlled for these purposes.

WISTER LAKE

Poteau River. LeFlore County Oklahoma.

Southwestern Division

Tulsa District

<u>Operating Purposes</u>	<u>Authorized Purposes</u>	<u>Authorizing Laws</u>
Fish/Wildlife	Fish/Wildlife	PL 85-624
Flood Control	Flood Control	PL 75-781
Navigation	Navigation	PL 75-781
Water Supply	Water Supply	PL 75-781, PL 98-63
Recreation	Recreation	PL 78-534

UNCLASSIFIED

SECURITY CLASSIFICATION OF THIS PAGE

REPORT DOCUMENTATION PAGE

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12. PERSONAL AUTHOR(S) William K. Johnson and Richard J. DiBuono						
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17. COSATI CODES			18. SUBJECT TERMS (Continue on reverse if necessary and identify by block number)			
FIELD	GROUP	SUB-GROUP				
19. ABSTRACT (Continue on reverse if necessary and identify by block number) Section 311 of the Water Resources Development Act of 1990 (PL 101-640) directs the Secretary of the Army to "...conduct a study of the operations of reservoir projects which are under the jurisdiction of the Secretary -- (1) to identify the purposes for which each such project is authorized; and (2) to identify the purposes for which each such project is being operated." This report presents the information requested by the law. For each reservoir, information is provided about the purposes for which it is authorized, the laws granting authority, and the purposes for which water is being controlled by the Corps of Engineers.						
20. DISTRIBUTION/AVAILABILITY OF ABSTRACT ☒ UNCLASSIFIED/UNLIMITED ☐ SAME AS RPT. ☐ DTIC USERS				21. ABSTRACT SECURITY CLASSIFICATION		
22a. NAME OF RESPONSIBLE INDIVIDUAL Darryl W. Davis, Director, HEC				22b. TELEPHONE (Include Area Code) (916) 756-1104		22c. OFFICE SYMBOL CEWRC-HEC

SAM AR000973-SAM AR000979

from the area, citation for failure to comply, or both.

(d) The Patrol Commander may establish vessel size and speed limitations and operating conditions.

(e) The Patrol Commander may restrict vessel operation within the regatta area to vessels having particular operating characteristics.

(f) The Patrol Commander may terminate the marine event or the operation of any vessel at any time it is deemed necessary for the protection of life and property.

(g) This § 100.35-0246 will be effective from 3:30 p.m. on September 7, and terminate at 5:00 p.m. on September 8, 1985. (local time).

Dated: August 21, 1985.

B.F. Hollingsworth,

Rear Admiral, U.S. Coast Guard Commander, Second Coast Guard District.

[FR Doc. 85-20987 Filed 8-30-85; 8:45 am]

BILLING CODE 4910-14-M

33 CFR Part 165

[COTP LA/LB-85-08]

Safety Zone, Santa Cruz Island

AGENCY: Coast Guard, DOT.

ACTION: Final rule.

SUMMARY: A safety zone is being established in the territorial waters south of Santa Cruz Island. Tests of submerged and semisubmerged vessels will be conducted during a three month period. There will also be placement of fixed underwater sound systems making transit, anchoring or fishing hazardous. Limiting access to this area will serve to protect vessels and sensitive underwater gear. This regulation is exempt from certain provisions of 5 U.S.C. 553 because it involves a foreign or military affairs function of the United States.

EFFECTIVE DATE: September 3, 1985.

FOR FURTHER INFORMATION CONTACT: Lieutenant Commander Jeff Parks, U.S. Coast Guard, U.S. Coast Guard Operations Division, Eleventh Coast Guard District, Long Beach, California.

Supplementary Information

On 1 August 1985 the Coast Guard published a notice of proposed rule making in the *Federal Register* for these regulations (50 FR 31198). Interested persons were requested to submit comments and 3 comments were received.

Drafting Information

The drafters of these regulations are Lieutenant Commander Jeff Parks,

Project Officer, Eleventh Coast Guard District Operations Division, project officer and Lieutenant Joseph R. McFaul, Project Attorney, Eleventh Coast Guard District Legal Office.

Discussion of Comments

On 31 July 1985 a meeting was held at the Pacific Missile Test Center, Point Mugu California, between U.S. Navy Representatives and representatives of commercial user groups. Several fishermen stated that they would be losing money if denied access to shallow waters to set crab and lobster traps. Several users also stated that waters South of Santa Cruz Island serve as a natural lee during rough weather. Navy representatives promised to notify the Coast Guard when waters enclosed by the safety zone can be safely used by mariners and fishermen.

Additionally, the three written commenters expressed concern that the regulations would prevent access to fishing areas during the peak fishing season. One commenter suggested that permission to enter the zone be granted whenever testing would not be hazardous. This suggestion will be adopted. A hot-line will be established so that adverse effects on potential users will be minimized. Callers will be able to call the hot-line to determine if the zone can be entered. Adjustments to the zone may be made, as testing permits, to accommodate fishing seasons. These will be published in the Local Notice to Mariners and announced on the hot-line. The zone remains in effect at all times from September 3, 1985 to November 30, 1985, unless permission to enter the zone is granted by means of the hot-line or the Local Notice to Mariners.

List of Subjects in 33 CFR Part 165

Harbors, Marine safety, Navigation (water), Security measures, Vessels, Waterways.

PART 165—[AMENDED]

Final Regulations

In consideration of the foregoing, Part 165 of Title 33, Code of Federal Regulations, is amended as follows:

1. The authority citation for Part 165 continues to read as follows:

Authority: 33 U.S.C. 1225 and 1231; 50 U.S.C. 191; 49 CFR 1.46 and 33 CFR 1.05-1(g), 6.04-1, 604-6, and 160.5.

2. Section 165.T1176 is added to read as follows:

§ 165.T1176 Santa Cruz Island.

(a) A safety zone is established to include all waters enclosed within lines drawn from the following points:

Beginning from a point on land located approximately at Latitude 33-57.9 N, Longitude 119-42.6 W, then due south to a point on the territorial sea located approximately at Latitude 33-54.9 N, Longitude 119-42.6 W, then following the limit of the territorial sea in an easterly direction to a point approximately located at Latitude 33-56.8 N, Longitude 119-34.5 W, then due north to a point on land located approximately at Latitude 33-59.8 N, Longitude 119-34.5 W, then returning along the shore to the beginning point.

(b) No person may swim, skin dive or scuba dive in the waters within the safety zone.

(c) No vessel may navigate, transit, fish, anchor or drift in the waters within the safety zone.

(d) Any vessel within the zone shall follow the directions of the patrolling Coast Guard cutter.

(e) This regulation is effective on September 3, 1985 and remains continuously in force until November 30, 1985.

Dated: August 28, 1985.

A.B. Beran,

Commodore, U.S. Coast Guard, Commander, Eleventh Coast Guard District.

[FR Doc. 85-20988 Filed 8-30-85; 8:45 am]

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DEPARTMENT OF DEFENSE

Corps of Engineers, Department of the Army

36 CFR Part 327

Public Use of Water Resource Development Projects Administered by the Chief of Engineers

AGENCY: U.S. Army Corps of Engineers, DOD.

ACTION: Final rule.

SUMMARY: This final rulemaking supersedes the regulation dated May 1979. The regulation is designed to ensure safe, enjoyable and environmentally sound visitation on the public lands, free from unwarranted disturbances. This is accomplished by setting minimum standards of conduct for persons using the public lands and establishing penalties that may be imposed for failure to obey the regulation.

These rules and regulations apply to water resource development projects, completed or under construction, administered by the Chief of Engineers, and to those portions of jointly administered water resource projects

which are under the administrative jurisdiction of the Chief of Engineers, including the Central and Southern Florida flood control project as authorized by the Flood Control Act of 1968.

EFFECTIVE DATE: January 1, 1986.

FOR FURTHER INFORMATION CONTACT: Darrell E. Lewis, Chief, Natural Resources Management Branch, U.S. Army Corps of Engineers, HQUSACE, ATTN: DAEN-CWO-R, Washington, D.C. 20314-1000.

SUPPLEMENTARY INFORMATION:

Amendments

The amendments to Part 327 are necessary to clarify and strengthen selected regulations for more effective management and to enhance public enjoyment of Corps water resource development projects. Some of the sections have been reworded and/or relocated to a different section. These minor changes are editorial in nature and have been made to express the intent of the regulation more concisely. They are not listed individually.

Section 327.1 concerning the statement of policy has been enlarged to contain former § 327.23 Outgranted Lands and § 327.24 Indian Lands. Paragraph (g) is added to this section instead of being listed in individual sections throughout the regulation. Paragraph (h) has been expanded to include the use of vessels and aircraft, in addition to vehicles.

Section 327.2 concerning vehicles has been expanded to address the removal of illegally parked vehicles and to allow exhaust muffler noise limits to be determined as defined by state and local laws.

Section 327.3 concerning vessels has been expanded to better define vessels and allow for means of identification of vessels by requiring the display of appropriate U.S. Coast Guard or state registration whenever they are operated on project waters. Safety equipment should conform to state safety laws in addition to U.S. Coast Guard requirements. Exhaust muffler noise limits may be determined by state and local laws.

Section 327.4 concerning aircraft has been restructured in order to better define aircraft.

Section 327.5 concerning swimming has been expanded to require that an international diving flag be displayed during underwater activities.

Section 327.8 concerning hunting, fishing, and trapping has been expanded to indicate that all Federal, state, and local laws governing these activities are applicable on project lands.

Section 327.9 concerning sanitation has been expanded to include all references to sanitation previously contained in other sections.

Section 327.10 concerning fires has been expanded to require fuels be stored in containers designed for such purposes and has restricted the throwing or dropping of lighted smoking materials.

Section 327.11 concerning the control of animals has been expanded to prohibit a person from allowing animals to impede or restrict the otherwise full and free use by the public of the project lands.

Section 327.12 concerning restrictions has been expanded to include disruptive behavior and to define noise production devices and excessive noise levels.

Section 327.15 concerning the abandonment of personal property has been expanded to assist in the control of encroachments.

Section 327.24 concerning interference with Government employees has been revised to incorporate the provisions of Sections 1114 and 111 of Title 18 USC for certain Corps of Engineers employees, as allowed by Pub. L. 98-63:

Section 327.26 concerning state and local laws has been added to properly address the role of state and local law enforcement agencies on lands managed by the Corps of Engineers.

The U.S. Army Corps of Engineers has determined that this document is not a major rule under Executive Order 12291. It has been determined under the criteria of the Regulatory Flexibility Act that this final rule will not have a significant impact on a substantial number of small entities.

List of Subjects in 36 CFR Part 327

Penalties, Recreation and recreation areas, Water resources.

Accordingly, 36 CFR Part 327 is revised to read as follows:

PART 327—RULES AND REGULATIONS GOVERNING PUBLIC USE OF WATER RESOURCE DEVELOPMENT PROJECTS ADMINISTERED BY THE CHIEF OF ENGINEERS

- Sec.
327.0 Applicability.
327.1 Policy.
327.2 Vehicles.
327.3 Vessels.
327.4 Aircraft.
327.5 Swimming.
327.6 Picnicking.
327.7 Camping.
327.8 Hunting, fishing and trapping.
327.9 Sanitation.
327.10 Fires.

- Sec.
327.11 Control of animals.
327.12 Restrictions.
327.13 Explosives, firearms, other weapons and fireworks.
327.14 Public property.
327.15 Abandonment and impoundment of personal property.
327.16 Lost and found articles.
327.17 Advertisement.
327.18 Commercial activities.
327.19 Permits.
327.20 Unauthorized structures.
327.21 Special events.
327.22 Unauthorized occupation.
327.23 Recreation use fees.
327.24 Interference with Government employees.
327.25 Violations of rules and regulations.
327.26 State and local laws.

Authority: Sec. 4, Act of December 22, 1944, 58 Stat. 889, as amended (16 U.S.C. 460d); sec. 210 of Pub. L. 90-483, 82 Stat. 746; and Pub. L. 88-578, 78 Stat. 897, as amended (16 U.S.C. 460l-6a)

§ 327.0 Applicability.

The regulations covered in this Part 327 shall be applicable to water resource development projects, completed or under construction, administered by the Chief of Engineers, and to those portions of jointly administered water resource development projects which are under the administrative jurisdiction of the Chief of Engineers. All other Federal, State and local laws and regulations remain in full force and effect where applicable to those water resource development projects.

§ 327.1 Policy.

(a) It is the policy of the Secretary of the Army, acting through the Chief of Engineers, to manage the natural, cultural and developed resources of each project in the public interest, providing the public with safe and healthful recreational opportunities while protecting and enhancing these resources.

(b) Unless otherwise indicated herein, the term "District Engineer" shall include the authorized representatives of the District Engineer.

(c) The term "project" or "water resource development project" refers to the water areas of any water resource development project administered by the Chief of Engineers, without regard to ownership of underlying land, to all lands owned in fee by the Federal Government and to all facilities therein or thereon of any such water resource development project.

(d) All water resource development projects open for public use shall be available to the public without regard to sex, race, color, creed, age, nationality or place of origin. No lessee, licensee, or

concessionaire providing a service to the public shall discriminate against any person because of sex, race, creed, color, age, nationality or place of origin in the conduct of the operations under the lease, license or concession contract.

(e) In addition to the regulations in this Part 327, all applicable Federal, state and local laws and regulations remain in full force and effect on project lands or waters which are outgranted by the District Engineer by lease, license or other written agreement.

(f) The regulations in this Part 327 shall be deemed to apply to those lands and waters which are subject to treaties and Federal laws and regulations concerning the rights of Indian Nations and which lands and waters are incorporated, in whole or in part, within water resource development projects administered by the Chief of Engineers, to the extent that the regulations in this Part 327 are not inconsistent with such treaties and Federal laws and regulations.

(g) Any violation of any section of this Part 327 shall constitute a separate violation for each calendar day in which it occurs.

(h) For the purposes of this Part 327, the owner of any unattended vehicle, vessel or aircraft as described herein shall be presumed to be responsible for its use on project property. Unless proven otherwise, such presumption will be sufficient to issue a citation for the violation of regulations applicable to the use of such vehicle, vessel or aircraft as provided for in § 327.25, Violation of Rules and Regulations.

§ 327.2 Vehicles.

(a) This section pertains to all vehicles, including, but not limited to, automobiles, trucks, motorcycles, minibikes, snowmobiles, dune buggies, all-terrain vehicles and trailers, campers, bicycles or any other such equipment.

(b) Vehicles shall not be parked in violation of posted restrictions, or in such a manner as to obstruct or impede normal or emergency traffic movement or the parking of other vehicles, create a safety hazard, or endanger any person, project property or environmental feature. Vehicles so parked are subject to removal and impoundment at the owner's expense.

(c) The operation and/or parking of a vehicle off authorized roadways is prohibited except at locations and times designated by the District Engineer. Taking any vehicle through, around or beyond a restrictive sign, recognizable barricade, fence or traffic control barrier is prohibited.

(d) Vehicles shall be operated only in accordance with posted regulations and

applicable Federal, state and local laws, which shall be enforced by authorized enforcement officials.

(e) No person shall operate any vehicle in a careless, negligent or reckless manner so as to endanger any person, project property or environmental feature.

(f) At developed recreation areas, vehicles shall be used only to enter or leave the area or individual sites or facilities unless otherwise posted.

(g) Except as authorized by the District Engineer, no person shall operate any motorized vehicle without a proper and effective exhaust muffler as defined by state and local laws, or with an exhaust muffler cutout open, or in any other manner which renders the exhaust muffler ineffective in muffling the sound of engine exhaust.

§ 327.3 Vessels.

(a) This section pertains to all vessels or watercraft, including, but not limited to, powerboats, cruisers, houseboats, sailboats, rowboats, canoes, kayaks, jetskis and any other such equipment capable of navigation on water, whether in motion or at rest.

(b) The placement and/or operation of any vessel or watercraft for a fee or profit upon project waters or lands is prohibited except as authorized by permit, lease, license, or concession contract with the Department of the Army. This paragraph (§ 327.3(b)) shall not apply to the operation of commercial tows or passenger carrying vessels not based at a Corps project which utilize project waters as a link in continuous transit over navigable waters of the United States.

(c) Vessels or other watercraft may be operated on the project waters, except in prohibited or restricted areas, in accordance with posted regulations, including buoys, and applicable Federal, state and local laws, as regulated by authorized enforcement officials. All vessels or watercraft so required by applicable Federal, state and local laws shall display an appropriate registration on board whenever the vessel is operated on project waters.

(d) The operation of vessels or other watercraft in a careless, negligent or reckless manner so as to endanger any property or person (including the operator and/or user(s) of the vessel or watercraft) is prohibited.

(e) All vessels, when in use, shall have safety equipment, including personal flotation devices, on board in compliance with U.S. Coast Guard boating safety requirements (Coast Guard Pamphlet CG-290; 48 CFR Parts 25, 30; 33 CFR Part 175) and in compliance with boating safety laws

issued and enforced by the state in which the vessel is being operated.

(f) Unless otherwise permitted by Federal, state or local law, vessels or other watercraft, while moored in commercial facilities, community or corporate docks, or at any fixed or permanent mooring point, may only be used for overnight occupancy when such use is incidental to recreational boating. Vessels or other watercraft are *not* to be used as a place of habitation or residence.

(g) Water skis, parasails, ski-kites and similar devices are permitted in nonrestricted areas except that they may not be used in a careless, negligent, or reckless manner so as to endanger any property or person (including the user and/or operator of the towing vessel).

(h) All vessels when not in actual use shall be removed from project lands and water unless securely moored or stored at designated areas approved by the District Engineer. The placing of floating or stationary mooring facilities on, adjacent to, or interfering with a buoy, channel marker or other navigational aid is prohibited.

(i) The use at a project of any vessel not constructed or maintained in compliance with the standards and requirements established by the Federal Safe Boating Act of 1971 (Pub. L. 92-75, 85 Stat. 213), or promulgated pursuant to such act, is prohibited.

(j) Except as authorized by the District Engineer, no person shall operate any vessel or watercraft without a proper and effective exhaust muffler as defined by State and local laws, or with an exhaust muffler cutout open, or in any other manner which renders the exhaust muffler ineffective in muffling the sound of engine exhaust.

§ 327.4 Aircraft.

(a) This section pertains to all aircraft including, but not limited to, airplanes, seaplanes, helicopters, ultralight aircraft, motorized hang gliders, hot air balloons, any non-powered flight devices or any other such equipment.

(b) The operation of aircraft on project lands at locations other than those designated by the District Engineer is prohibited. This provision shall not be applicable to aircraft engaged on official business of Federal, state or local governments or law enforcement agencies, aircraft used in emergency rescue in accordance with the directions of the District Engineer or aircraft forced to land due to circumstances beyond the control of the operator.

(c) No person shall operate any aircraft while on or above project

waters or project lands in a careless, negligent or reckless manner so as to endanger any person or property.

(d) Nothing in this section (§ 327.4) bestows authority to deviate from rules and regulations or prescribed standards of the appropriate State Aeronautical Agency, or the Federal Aviation Administration, including, but not limited to, regulations and standards concerning pilot certifications or ratings, and airspace requirements.

(e) Except in extreme emergencies threatening human life or serious property loss, the air delivery of any person, material or equipment by parachute, helicopter or other means onto project lands or waters without written permission of the District Engineer is prohibited.

(f) In addition to the above provisions, seaplanes, as defined below, are subject to the following restrictions:

(1) Such use is limited to aircraft utilized for water landings and takeoff, herein called seaplanes, at the risk of the owner, operator and passenger(s).

(2) Seaplane operations contrary to the prohibitions or restrictions established by the District Engineer (pursuant to Part 328 of Title 36) are prohibited. The responsibility to ascertain whether seaplane operations are prohibited or restricted is incumbent upon the person(s) contemplating the use of, or using, such waters.

(3) All operations of seaplanes while upon project waters shall be in accordance with marine rules of the road for power boats or vessels and § 327.3 Vessels.

(4) Seaplanes on project waters and lands in excess of 24 hours shall be securely moored at mooring facilities and at locations permitted by the District Engineer. Seaplanes may be temporarily moored on project waters and lands, except in areas prohibited by the District Engineer, for periods less than 24 hours providing that (i) the mooring is safe, secure, and accomplished so as not to damage the rights of the Government or members of the public and (ii) the operator remains in the vicinity of the seaplane and reasonably available to relocate the seaplane if necessary.

(5) Commercial operation of seaplanes from project waters is prohibited without written approval of the District Engineer following consultation with and necessary clearance from the Federal Aviation Administration (FAA) and other appropriate public authorities and affected interests.

(6) Seaplanes may not be operated at Corps projects between sunset and sunrise unless adequate lighting and

supervision approved by the District Engineer are available.

§ 327.5 Swimming.

(a) Swimming, diving, snorkling or scuba diving at one's own risk is permitted, except at launching sites, designated mooring points and other areas so designated by the District Engineer. Diving or jumping from bridges or other structures which cross project waters is prohibited.

(b) An international diving flag must be displayed during underwater activities.

§ 327.6 Picnicking.

Picnicking and related day-use activities are permitted, except in those areas where prohibited by the District Engineer.

§ 327.7 Camping.

(a) Camping is permitted only at sites and/or areas designated by the District Engineer.

(b) Camping at one or more campsites at any one water resource project for a period longer than 14 days during any 30-consecutive-day period is prohibited without the written permission of the District Engineer.

(c) The unauthorized placement of camping equipment or other items on a campsite and/or personal appearance without overnight occupancy at a campsite for the purpose of reserving a designated campsite for future occupancy is prohibited.

(d) The digging or leveling of any ground or the construction of any structure without written permission of the District Engineer is prohibited.

§ 327.8 Hunting, fishing, and trapping.

Hunting, fishing, and trapping are permitted except in areas where prohibited by the District Engineer. All Federal, state and local laws governing these activities apply on project lands and waters, as regulated by authorized enforcement officials.

§ 327.9 Sanitation.

(a) Garbage, trash, rubbish, litter, or any other waste material or waste liquid generated on the project and incidental to authorized recreational activities shall be either removed from the project or deposited in receptacles provided for that purpose. The improper disposal of such wastes, human and animal waste included, on the project is prohibited.

(b) It is a violation to bring onto a project any household or commercial garbage, trash, rubbish, debris, dead animals or litter of any kind for disposal or dumping without the written permission of the District Engineer.

(c) The spilling, pumping or other discharge of contaminants, pollutants or other wastes, including, but not limited to, human or animal waste, petroleum, industrial and commercial products and by-products, on project lands or into project waters is prohibited.

(d) Campers, picnickers, and all other persons using a water resource development project shall keep their sites free of trash and litter during the period of occupancy and shall remove all personal equipment and clean their sites upon departure.

(e) The discharge or placing of sewage, galley waste, garbage, refuse, or pollutants into the project waters from any vessel or watercraft is prohibited.

§ 327.10 Fires.

(a) Gasoline and other fuels, except that which is contained in storage tanks of vehicles, vessels, camping equipment, or hand portable containers designed for such purpose, shall not be carried onto or stored on the project without written permission of the District Engineer.

(b) Fires shall be confined to those areas designated by the District Engineer, and shall be contained in fireplaces, grills, or other facilities designated for this purpose. Fires shall not be left unattended and must be completely extinguished prior to departure. The burning of materials that produce toxic fumes, including, but not limited to, tires, plastic or treated wood products is prohibited.

(c) Improper disposal of lighted smoking materials, matches or other burning material is prohibited.

§ 327.11 Control of animals.

(a) No person shall bring or allow dogs, cats, or other pets into developed recreation areas unless penned, caged, on a leash under 6 feet in length, or otherwise physically restrained. No person shall allow animals to impede or restrict otherwise full and free use of project lands and waters by the public. All animals and pets are prohibited in swimming beaches. Animals and pets, except properly trained animals assisting the handicapped (such as seeing-eye dogs), are prohibited in sanitary facilities or other areas so designated by the District Engineer. Unclaimed or unattended animals are subject to immediate impoundment and removal in accordance with state and local laws.

(b) Persons bringing or allowing pets in designated public use areas shall be responsible for proper removal and disposal, in sanitary facilities, of any waste produced by these animals.

(c) No person shall bring or allow horses, cattle, or other livestock in camping, picnicking, swimming or other recreation areas except in areas designated by the District Engineer.

(d) Ranging, grazing, watering or allowing livestock on project lands and waters is prohibited except when authorized by lease, license or other written agreement with the District Engineer.

(e) Unauthorized livestock are subject to impoundment and removal in accordance with Federal, state and local laws.

(f) Any animal impounded under the provisions of this section may be confined at a location designated by the District Engineer, who may assess a reasonable impoundment fee. This fee shall be paid before the impounded animal is returned to its owner(s).

§ 327.12 Restrictions.

(a) The District Engineer may establish and post a schedule of visiting hours and/or restrictions on the public use of a project or portion of a project. The District Engineer may close or restrict the use of a project or portion of a project when necessitated by reason of public health, public safety, maintenance, or other reasons in the public interest. Entering or using a project in a manner which is contrary to the schedule of visiting hours, closures or restrictions is prohibited.

(b) Quiet shall be maintained in all public use areas between the hours of 10 p.m. and 6 a.m., or those hours designated by the District Engineer. Excessive noise during such times which unreasonably disturbs persons is prohibited.

(c) Any act or conduct by any person which interferes with, impedes or disrupts the use of the project or impairs the safety of another person is prohibited. Individuals who are boisterous, rowdy, disorderly or otherwise disturb the peace on project lands or waters may be requested to leave the project.

(d) The operation or use of any audio or other noise producing device including, but not limited to, radios, televisions, or musical instruments and motorized equipment, including vessels or vehicles, in such a manner as to unreasonably annoy or endanger persons at any time or exceed state or local laws governing noise levels from motorized equipment is prohibited.

§ 327.13 Explosives, firearms, other weapons and fireworks.

The possession of loaded firearms, ammunition, loaded projectile firing devices, bows and arrows, crossbows,

explosives or explosive devices of any kind, including fireworks, is prohibited unless: (a) In the possession of a Federal, state or local law enforcement officer; (b) being used for hunting or fishing as permitted under § 327.8, with devices being unloaded when transported to, from or between hunting and fishing sites; (c) being used at authorized shooting ranges; or (d) written permission has been received from the District Engineer.

§ 327.14 Public property.

(a) Destruction, injury, defacement, removal or any alteration of public property including, but not limited to, developed facilities, natural formations, mineral deposits, historical and archaeological features, and vegetative growth, is prohibited except when in accordance with written permission of the District Engineer.

(b) Cutting or gathering of trees or parts of trees and/or the removal of wood from project lands is prohibited without written permission of the District Engineer.

(c) Gathering of dead wood on the ground for use in designated recreation areas as firewood is permitted.

§ 327.15 Abandonment and impoundment of personal property.

(a) Personal property of any kind shall not be abandoned, stored or left unattended upon project lands or waters. After a period of 24 hours, or at any time after a posted closure hour in a public use area, unattended personal property shall be presumed to be abandoned and may be impounded and stored at a storage point designated by the District Engineer, who may assess a reasonable impoundment fee. Such fee shall be paid before the impounded property is returned to its owner.

(b) The District Engineer shall, by public or private sale or otherwise, dispose of all lost, abandoned or unclaimed personal property that comes into Government custody or control. However, property may not be disposed of until diligent effort has been made to find the owner, heirs, next of kin or legal representative(s). If the owner, heirs, next of kin or legal representative(s) are determined but not found, the property may not be disposed of until the expiration of 120 days after the date when notice, giving the time and place of the intended sale or other disposition, has been sent by certified or registered mail to that person at the last known address. When diligent efforts to determine the owner, heirs, next of kin or legal representative(s) are unsuccessful, the property may be disposed of without delay except that if

it has a fair market value of \$25 or more the property may not be disposed of until 90 days after the date it is received at the storage point designated by the District Engineer. The net proceeds from the sale of property shall be covered into the Treasury of the United States as miscellaneous receipts.

(c) Personal property placed on Federal lands or waters adjacent to a private residence and/or developments of any private nature for more than 24 hours without permission of the District Engineer shall be presumed to have been abandoned and, unless proven otherwise, such presumption will be sufficient to issue a citation as provided for in § 327.25.

§ 327.16 Lost and found articles.

All articles found shall be deposited by the finder at the Resource Manager's office or with a ranger. All such articles shall be disposed of in accordance with the procedures set forth in § 327.15.

§ 327.17 Advertisement.

Advertising by the use of billboards, signs, markers, audio devices, handbills, circulars, posters, or any other means whatsoever, is prohibited without written permission of the District Engineer. Vessels and vehicles with semipermanent or permanent painted or installed signs are exempt as long as they are used for authorized recreational activities and comply with all other rules and regulations pertaining to vessels and vehicles.

§ 327.18 Commercial activities.

The engaging in or solicitation of business without the express written permission of the District Engineer is prohibited.

§ 327.19 Permits.

(a) It shall be a violation of these regulations to refuse to or fail to comply with the fee requirements or other terms or conditions of any permit issued under the provisions of this Part 327.

(b) Permits for floating structures (issued under the authority of § 327.30) of any kind on/in waters of water resources development projects, whether or not such waters are deemed navigable waters of the United States but where such waters are under the management of the Corps of Engineers, shall be issued at the discretion of the District Engineer under the authority of this regulation. District Engineers will delineate those portions of the navigable waters of the United States where this provision is applicable and post notices of this designation in the vicinity of the appropriate Resource Manager's office.

(c) Permits for nonfloating structures (issued under the authority of § 327.30) of any kind constructed, placed in or affecting waters of water resource development projects where such waters are deemed navigable waters of the U.S. shall be issued under the provisions of section 10 of the Act approved March 3, 1899 (33 U.S.C. 403). If a discharge of dredged or fill material in these waters is involved, a permit is required under section 404 of the Clean Water Act (33 U.S.C. 1344). (See 33 CFR Parts 320-330).

(d) Permits for nonfloating structures (issued under the authority of § 327.30) of any kind in waters of water resource development projects, where such waters are under the management of the Corps of Engineers and where such waters are not deemed navigable waters of the United States shall be issued as set forth in paragraph (b) of this section. If a discharge of dredged or fill material into any water of the United States is involved, a permit is required under Section 404 of the Clean Water Act (33 U.S.C. 1344) (See 33 CFR Parts 320-330). Certification may be required pursuant to section 401 of the Clean Water Act (33 U.S.C. 1341).

§ 327.20 Unauthorized structures.

The construction, placement, or existence of any structure (including, but not limited to, roads, trails, signs or landscape features) of any kind under, upon, in or over the project lands or waters is prohibited unless a permit, lease, license or other appropriate written agreement has been issued by the District Engineer. The design, construction, placement, existence or use of structures in violation of the terms of the permit, lease, license or other written agreement is prohibited. The government shall not be liable for the loss of, or damage to, any private structures, whether authorized or not, placed on project lands or waters. Unauthorized structures are subject to summary removal or impoundment by the District Engineer.

§ 327.21 Special events.

(a) Special events including, but not limited to, water carnivals, boat regattas, music festivals, dramatic presentations or other special recreation programs are prohibited unless written permission has been granted by the District Engineer. An appropriate fee may be charged under the authority of § 327.23.

(b) The public shall not be charged any fee by the sponsor of such event unless the District Engineer has approved in writing (and the sponsor has properly posted) the proposed

schedule of fees. The District Engineer shall have authority to revoke permission and require removal of any equipment upon failure of the sponsor to comply with terms and conditions of the permit/permission or the regulations in this Part 327.

§ 327.22 Unauthorized occupation.

(a) Occupying any lands, buildings, vessels or other facilities within water resource development projects for the purpose of maintaining same as a full- or part-time residence without the written permission of the District Engineer is prohibited. The provisions of this section shall not apply to the occupation of lands for the purpose of camping, in accordance with the provisions of § 327.7.

(b) Use of project lands or waters for agricultural purposes is prohibited except when in compliance with terms and conditions authorized by lease, license or other written agreement issued by the District Engineer.

§ 327.23 Recreation use fees.

(a) In accordance with 16 USC 4601, the Corps of Engineers is required to collect special recreation use fees and/or special permit fees for the use of specialized sites, facilities, equipment or services related to outdoor recreation furnished at Federal expense.

(b) All use fees shall be fair and equitable and will be based on the following criteria (as contained in the Land and Water Conservation Fund Act of 1965, Pub. L. 88-578, as amended):

(1) The direct and indirect amount of Federal expenditure.

(2) The benefit to the recipient.

(3) The public policy or interest served.

(4) The comparable recreation fees charged by other Federal and non-Federal public agencies and the private sector within the service area of the management unit at which the fee is charged.

(5) The economic and administrative feasibility of fee collection.

(6) The extent of regular maintenance required.

(7) Other pertinent factors.

Based upon the above criteria, it shall be the policy of the Chief of Engineers to publish in the Federal Register, as a general notice document, the established range of fees for specialized sites, facilities, equipment or services whenever such fees are adjusted.

(c) Where such fees are charged, the District Engineer shall insure that clear notice of fee requirements is prominently posted at each area, and at appropriate locations therein and that the notice be included in publications

distributed at such areas. Failure to pay authorized recreation use fees as established pursuant to Pub. L. 88-578, 78 Stat. 897, as amended (16 U.S.C. 4601-6a), is prohibited and is punishable by a fine of not more than \$100.

(d) Any Golden Age or Golden Access Passport permittee shall be entitled, upon presentation of such a permit, to utilize special recreation facilities at a rate of 50 percent off the established use fee at Federally operated areas.

(e) At each Corps lake or reservoir where camping is permitted, the District Engineer will provide at least one primitive campground, containing designated campsites, sanitary facilities and vehicular access, where no fees will be charged.

§ 327.24 Interference with government employees.

(a) It is a Federal crime pursuant to the provisions of sections 1114 and 111 of Title 18, United States Code, to forcibly assault, resist, oppose, impede, intimidate, or interfere with any civilian official or employee of the U.S. Army Corps of Engineers engaged in the performance of his or her official duties, or on account of the performance of his or her official duties. Such actions or interference directed against a Federal employee while carrying out these regulations are also a violation of these regulations and may be a state crime pursuant to the laws of the state where they occur.

(b) Failure to comply with a lawful order issued by a Federal employee acting pursuant to these regulations shall be considered as interference with that employee while engaged in the performance of their official duties. Such interference with a Federal employee includes failure to provide a correct name, address or other identification upon request of the Federal employee, when that employee is authorized by the District Engineer to issue citations in the performance of the employees official duties.

§ 327.25 Violation of rules and regulations.

(a) Any person who violates the provisions of these regulations, other than for a failure to pay authorized recreation use fees as separately provided for in § 327.23, may be punished by a fine of not more than \$500 or imprisonment for not more than six months or both and may be tried and sentenced in accordance with the provisions of section 3401 of Title 18, United States Code. Persons designated by the District Engineer shall have the authority to issue a citation for violation of these regulations, requiring the

appearance of any person charged with the violation to appear before the United States Magistrate within whose jurisdiction the affected water resources development project is located. (16 U.S.C. 460d).

(b) Any person who commits an act against any official or employee of the U.S. Army Corps of Engineers that is a crime under the provisions of section 1114 or section 111 of Title 18, United States Code or under provisions of pertinent state law may be tried and sentenced as further provided in Federal or state law, as the case may be.

§ 327.26 State and local laws.

Except as otherwise provided herein or by Federal law or regulation, state and local laws and ordinances shall apply on project lands and waters. This includes, but is not limited to, state and local laws and ordinances governing:

- (a) Operation and use of motor vehicles, vessels, and aircraft;
- (b) Hunting, fishing and trapping;
- (c) Use of firearms or other weapons;
- (d) Civil disobedience and criminal acts; and,
- (e) Littering, sanitation and pollution.

These state and local laws and ordinances are enforced by those state and local enforcement agencies established and authorized for that purpose.

Dated: August 21, 1985.

Approved:

Paul W. Taylor

Colonel, Corps of Engineers Executive Director, Engineer Staff (Chief of Staff).

[FR Doc. 85-20946 Filed 8-30-85; 8:45 am]

BILLING CODE 3710-92-M

ENVIRONMENTAL PROTECTION AGENCY

40 CFR Part 81

[EPA Docket No. 107-VA-6; A-3-FRC-2889-8]

Air Quality Planning Purposes; Approval of Section 107 Designation for the Commonwealth of Virginia With Respect to Carbon Monoxide

AGENCY: Environmental Protection Agency.

ACTION: Final rule.

SUMMARY: This notice announces EPA's approval of an air quality designation change for Fairfax County in Virginia, from "Does not meet primary standards" to "Cannot be classified or better than national standards," for the primary and secondary National Ambient Air Quality Standards (NAAQS) for carbon monoxide (CO). This revision is based

on eight consecutive calendar quarters of air quality data submitted by Virginia demonstrating attainment. EPA is approving this redesignation request because it meets the necessary requirements of section 107 of the Clean Air Act and conforms to current EPA policy.

EFFECTIVE DATE: October 3, 1985.

ADDRESSES: Copies of the revision and accompanying documents are available for public inspection during normal business hours at the following locations:

U.S. Environmental Protection Agency, Region III, Air Programs Branch (3AM10), 841 Chestnut Building, Philadelphia, PA 19107, Attn: Patricia Gaughan (3AM11)

Virginia State Air Pollution Control Board, Room 801, Ninth Street Office Building, Richmond, Virginia 23219, Attn: James Watson

FOR FURTHER INFORMATION CONTACT: Harold A. Frankford, 215/597-1325, or Cynthia H. Stahl, 215/597-9337, at the EPA Region III address above. The commercial and FTS phone numbers are the same.

SUPPLEMENTARY INFORMATION: On November 20, 1984, the Commonwealth of Virginia State Air Pollution Control Board submitted a request to redesignate three municipalities in the Northern Virginia portion of the National Capital Interstate AQCR as attainment areas for carbon monoxide (CO) under section 107 of the Clean Air Act. These municipalities are Alexandria City, Arlington County, and Fairfax County. However, recent data shows violations of the 8-hour CO standard in Alexandria City and Arlington County. Therefore, on March 18, 1985, Virginia requested that EPA only consider Fairfax County for redesignation. EPA proposed approval of the Fairfax County redesignation on April 17, 1985 (50 FR 15187). No comments were received by EPA.

This redesignation changes the carbon monoxide classification from "Does not meet primary standards" to "Cannot be classified or better than national standards" under 40 CFR 81.347 for Fairfax County. All other air quality designations for carbon monoxide remain unchanged.

There are four monitoring stations in Fairfax County: Two inside the Beltway and two outside the Beltway. The air quality data from January 1980 through December 1984 submitted by the Commonwealth show that none of the monitoring stations in this county recorded violations of the National Ambient Air Quality Standards (NAAQS) for CO. EPA has examined

the air quality data collected from the monitoring sites on which this redesignation request is based and has determined that the data were collected in accordance with all EPA requirements. Accordingly, EPA is approving the Commonwealth's request for redesignation of Fairfax County with respect to CO. EPA has approved the CO control strategy applicable to Fairfax County as part of the federally enforceable Virginia SIP. See 49 FR 3083 (1984). However, because this same control strategy is also designed to provide for attainment of the NAAQS for ozone, and because Fairfax County remains a nonattainment area for ozone, this redesignation does not change any current requirements of Virginia's approved SIP.

On April 17, 1985, EPA published a proposed rulemaking notice (50 FR 15187) in which the Agency proposed approving the redesignation. EPA did not receive any comments regarding the proposed redesignation for Fairfax County as a result of the Federal Register Notice.

Conclusion

The Administrator's decision to approve this section 107 redesignation for Fairfax County is based on a determination that it meets the requirements of section 107 of the Clean Air Act and current EPA policy pertaining to redesignation requests.

Procedural Information

The Office of Management and Budget has exempted this rule from the requirements of section 3 of Executive Order 12291.

Under section 307(b)(1) of the Clean Air Act, judicial review of this action is available only by the filing of a petition for review in the United States Court of Appeals for the appropriate circuit within the 60 days following September 3, 1985. Under section 307(b)(2) of the Act, the requirements which are the subject of today's Notice may not be challenged later in civil or criminal proceedings brought by EPA to enforce these requirements.

List of Subjects in 40 CFR Part 81

Air pollution control, Intergovernmental relations.

Dated: August 23, 1985.

Lee M. Thomas,
Administrator.

PART 81—[AMENDED]

Part 81 of Chapter I, Title 40 of the Code of Federal Regulations is amended as follows:

SAM AR000980-SAM AR000988

all statistical data indicates a minimal fluctuation in vehicular traffic between the winter and summer months and only a slight variation in the volume of vessel traffic. This data supports the change to limited openings on a year-round basis. The Coast Guard's position, at this time, is that these regulations will provide for the reasonable needs of navigation while improving the flow of vehicular traffic. The Coast Guard will closely monitor the effects of these amended regulations and if additional changes appear needed, such a proposal will be made.

In consideration of the foregoing, Part 117 of Title 33 of the Code of Federal Regulations is amended by revising § 117.446e to read as follows:

§ 117.446e Biscayne Bay, AIWW, mile 1081.4, Broad Causeway Bridge, N.E. 123rd Street, between North Miami and Bay Harbor Islands, Fla.

(a) The draw shall open on signal from 6 p.m. to 8 a.m. From 8 a.m. to 6 p.m., the draw need open only on the hour and half-hour to allow any accumulated vessels to pass.

(b) The draw shall open at any time for the passage of public vessels of the United States, tugs with tows, cruise boats operated on a regular schedule, or vessels in distress. The opening signal from these vessels is four blasts of a whistle or horn, or by shouting.

(c) The owner of or agency controlling the bridge shall post, on both sides of the bridge, signs that state the conditions of this regulation. These signs shall be of such size that they may be easily read from an approaching vessel at any time.

(Sec. 5, 28 Stat. 362, as amended, sec. 6(g)(2), 80 Stat. 937; 33 U.S.C. 499, 49 U.S.C. 1655(g)(2); 49 CFR 1.46(c)(5)).

Dated: March 2, 1979.

R. H. SCARBOROUGH,
Vice Admiral, U.S. Coast
Guard, Acting Commandant.

[FR Doc. 79-7116 Filed 3-7-79; 8:45 am]

[3710-92-M]

Title 36—Parks, Forests, and Public
Property

CHAPTER III—CORPS OF ENGINEERS,
DEPARTMENT OF THE ARMY

PUBLIC USE OF WATER RESOURCES
DEVELOPMENT PROJECTS ADMIN-
ISTERED BY THE CHIEF OF ENGI-
NEERS

AGENCY: Corps of Engineers, DOD.

ACTION: Final rule.

SUMMARY: This rule will provide more effective management of Corps of Engineer water resource development projects. The purpose of this rule is to clarify and strengthen existing rules and regulations and eliminate duplication of regulations.

EFFECTIVE DATE: February 1, 1979.

FOR FURTHER INFORMATION CONTACT:

Ray Mitchell, Recreation Resource Management Branch, Construction-Operations Division, Office, Chief of Engineers, 202-693-7177.

SUPPLEMENTARY INFORMATION: On February 9, 1978, The Department of the Army, acting through the Chief of Engineers, published proposed regulations in the FEDERAL REGISTER (43 FR 5545) to clarify and strengthen existing rules and eliminate duplications. After consultation with public agencies, consideration of the public interest and public comments, it has been decided to delete the regulations contained in Part 313 which apply only to the Sam Rayburn Reservoir Area, Angelina River, Texas, which is administered as a joint venture by the Corps of Engineers and the U.S. Forest Service, Department of Agriculture, each operating under their respective laws and regulations.

Each to the two agencies separate regulations are comparable and comprehensive enough to effectively manage their respective areas of jurisdiction. Part 327 contains the basic rules and regulations governing public use of Corps of Engineers water resource development projects; therefore Part 313 is duplicative and unnecessary.

The same rationale applies to Part 322 which contains rules and regulations for a joint venture of the Corps of Engineers with the U.S. Fish and Wildlife Service, Department of the Interior, at Great Salt Plains Dam and Reservoir Area, Oklahoma.

The amendments to Part 327 are necessary to reflect new and increasing recreation activities and to clarify and strengthen selected rules and regulations for more effective management and enhanced public enjoyment of Corps water resource development projects.

Section 327.25 has been amended to allow for greater flexibility in establishing special recreation use fees for specific projects in accordance with the provisions of subsection 4(b) and 4(c) of Pub. L. 88-574 (78 Stat. 897) as amended.

Six comments were received in response to the proposed regulation. Several supported the proposed regulation, but suggested minor modifications. The remainder sought major revisions to one or two specific parts of

the regulation. The comments included the following:

1. Incidental overnight stays on boats at marinas or club sites should be allowed.

2. Language should be added to cover the use of buoys and flag markers for scuba diving areas.

3. Rather than posting no-hunting areas, fewer signs would be required if entrance to designated hunting area were posted instead.

4. Procedures for disposal of lost or abandoned property should be streamlined or liberalized.

The final regulation as revised herein should maximize recreation enjoyment of the water resources at Corps of Engineers water resource development projects with minimum impact on other uses.

The final rule will delete Parts 313 and 322 and amend Part 327 to clarify and strengthen selected rules for more effective management and enhanced public enjoyment of Corps water resource development projects.

List of those who commented on the proposed regulations for the deletion of Parts 313 and 322 and the amendment of Part 327:

1. United States Department of the Interior, Washington, D.C.

2. McNary Yacht Club, Hermiston, Oregon.

3. D. A. Caffey, San Angelo, Texas.

4. Cynthia R. Johnson, Waco, Texas.

5. Richard E. Booker, Waco, Texas.

6. Timothy C. Gibson, Fort Worth, Texas.

NOTE: The U.S. Army Corps of Engineers has determined that this document does not contain a major proposal requiring preparation of an Inflation Impact Statement Under Executive Order 11821 and OMB Circular A-107.

In consideration of the comments received and pursuant to the authority contained in Section 4 of the Act of December 1944, 58 Stat. 889, as amended, 16 U.S.C. 460d, 36 CFR, Parts 313 and 322 are deleted and Part 327 is revised effective on February 1, 1979, all to read as follows:

PART 313—WATER RESOURCE DEVELOPMENT PROJECTS HAVING JOINT REGULATIONS [DELETED]

PART 322—PUBLIC USE OF SALT PLAINS NATIONAL WILDLIFE REFUGE AND GREAT SALT PLAIN DAM AND RESERVOIR AREA, SALT FORK OF ARKANSAS RIVER, OKLAHOMA [DELETED]

PART 327—RULES AND REGULATIONS GOVERNING PUBLIC USE OF WATER RESOURCE DEVELOPMENT ADMINISTERED BY THE CHIEF OF ENGINEERS

The table of contents and authority for Part 327 is revised to read as follows:

Sec.	
327.0	Applicability.
327.1	Policy.
327.2	Vehicles.
327.3	Vessels.
327.4	Aircraft.
327.5	Swimming.
327.6	Picnicking.
327.7	Camping.
327.8	Hunting, Fishing, and Trapping.
327.9	Sanitation.
327.10	Fires.
327.11	Control of Animals.
327.12	Restrictions.
327.13	Explosives, Firearms, other Weapons and Fireworks.
327.14	Public Property.
327.15	Abandonment of Personal Property.
327.16	Lost and Found Articles.
327.17	Advertisement.
327.18	Commercial Activities.
327.19	Permits.
327.20	Unauthorized Structures.
327.21	Special Events.
327.22	Unauthorized Occupation.
327.23	Outgranted Lands.
327.24	Indian Lands.
327.25	Recreation Use Fees.
327.26	Interference with Government Employees.
327.27	Violation of Rules and Regulations.
327.28	[Reserved]
327.29	[Reserved]
327.30	Lakeshore Management on Civil Works Projects.

APPENDIX A—Guidelines for Granting Permits for Private Floating Recreation Facilities.

APPENDIX B—Applications for Lakeshore Use Permit [Reserved].

APPENDIX C—Conditions of Permit for Lakeshore Use.

APPENDIX D—Permit [Reserved].

AUTHORITY: Sec. 4, Act of December 22, 1944, 58 Stat. 889, as amended, 16 U.S.C. 460d; sec. 210 of Pub. L. 90-483, 82 Stat. 746; and Pub. L. 88-578, 78 Stat. 897, as amended, 16 U.S.C. 4601-6a.

§ 327.0 Applicability.

The regulations covered in this Part 327 shall be applicable to water resource development projects completed or under construction, administered by the Chief of Engineers, and to those portions of jointly administered water resource development projects which are under the administrative jurisdiction of the Chief of Engineers. **ALL OTHER FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS REMAIN IN FULL FORCE AND EFFECT WHERE APPLICABLE TO THOSE WATER RESOURCE DEVELOPMENT PROJECTS.**

§ 327.1 Policy.

(a) It is the policy of the Secretary of Army acting through the Chief of Engineers to manage the natural and cultural resources of each project in the public interest, providing the public with safe and healthful recreational opportunities while protecting and enhancing these resources.

(b) Unless otherwise indicated herein, the term "District Engineer" shall include the authorized representatives of the District Engineer.

(c) The term "project" or "water resource development project" refers to the water areas of any water resource development project administered by the Chief of Engineers and to all lands owned in fee by the Federal Government and all facilities therein or thereon of any such water resource development project.

(d) All water resource development projects open for public use shall be available to the public without regard to sex, race, color, creed, or national origin. No lessee, licensee, or concessionaire providing a service to the public shall discriminate against any person because of sex, race, creed, color, or national origin in the conduct of the operations under the lease, license, or concession contract.

§ 327.2 Vehicles.

(a) This section pertains to all vehicles, including, but not limited to, automobiles, trucks, motorcycles, mini-bikes, trail bikes, snowmobiles, dune buggies, all terrain vehicles, bicycles, and trailers, campers, or any other such equipment.

(b) Vehicles shall not be parked in violation of posted restrictions, or in such a manner as to endanger any project property or environmental feature. The owner of any vehicle parked in violation of this section shall be presumed to have parked it, and unless rebutted such presumption will be sufficient to sustain a conviction as provided for in § 327.27.

(c) The operation of a vehicle off roadways is prohibited except at locations and times designated by the District Engineer.

(d) Vehicles shall be operated only in accordance with posted regulations.

(e) No person shall operate any vehicle in a careless, negligent or reckless manner so as to endanger any project property or environmental feature.

(f) At developed areas, vehicles shall be used only for ingress and egress unless otherwise posted.

(g) Except as authorized by the District Engineer no person shall operate any motorized vehicle without a proper and effective exhaust muffler, or with an exhaust muffler cutout open, or in any other manner which renders the exhaust muffler ineffective

in muffling the sound of engine exhaust.

§ 327.3 Vessels.

(a) The placement and/or operation of any vessel or watercraft for a fee or profit upon project waters or lands is prohibited except as authorized by permit, lease, license, or concession contract with the Department of the Army. This section (327.3) shall not apply to the operation of commercial tows or passenger-carrying vessels not based at a Corps project which utilize project waters as a link in continuous transit over navigable waters of the United States.

(b) Vessels or other watercraft may be operated in project waters except in prohibited or restricted areas in accordance with posted regulations and applicable Federal, State, and local laws.

(c) The operation of vessels or other watercraft in a careless, negligent, or reckless manner so as to endanger any property or person (including the operator and/or user(s) of the vessel or watercraft) is prohibited.

(d) All vessels, when in use, shall have safety equipment on board in compliance with U.S. Coast Guard boating safety requirements (CG-290; 46 CFR 25.30; 33 CFR Part 175).

(e) Vessels or other watercraft while moored in commercial facilities, community or corporate docks, or at any fixed or permanent mooring point may only be used for overnight occupancy when such use is incidental to recreational boating. Vessels or other watercraft are not to be used as a place of habitation or residence.

(f) Water skis and similar devices are permitted in nonrestricted areas except that they may not be used in a careless, negligent, or reckless manner so as to endanger any property or person including the user or operator of the towing vessel.

(g) All vessels when not in actual use shall be removed from the project unless securely moored at mooring facilities approved by the District Engineer. The placing of floating or stationary mooring facilities to, or interfering with, a buoy, channel marker, or other navigational aid is prohibited.

(h) The use at a project of any vessel not constructed or maintained in compliance with the standards and requirements established by the National Safe Boating Act of 1971 (Pub. L. 92-75, 85 Stat. 213), or promulgated pursuant to such act, is prohibited.

(i) The discharge or placing of sewage, galley waste, garbage, refuse, metal cans or pollutants into the project waters from any vessel or watercraft is prohibited.

(j) Except as authorized by the District Engineer, no person shall operate any vessel or watercraft without a

proper and effective exhaust muffler, or with an exhaust muffler cutout open, or in any other manner which renders the exhaust muffler ineffective in muffling the sound of engine exhaust.

§ 327.4 Aircraft.

(a) The operation of aircraft on project lands other than at the landing areas designated by the District Engineer is prohibited.

(b) Any use of project waters by aircraft is subject to the following restrictions:

(1) Such use is limited to seaplanes at the risk of the owner, operator, and passenger(s).

(2) Seaplane operations contrary to the prohibitions or restrictions established by the District Engineer (pursuant to Part 328 of this title) are prohibited. The responsibility to ascertain whether or not projects, or portions thereof, are available for seaplane operations or whether seaplane operations are prohibited or restricted is incumbent upon the person(s) contemplating the use of, or using, such waters.

(3) All operations of seaplanes while upon project waters shall be in accordance with marine rules of the road for power boats or vessels.

(4) Seaplanes on project waters and lands in excess of 24 hours shall be securely moored at mooring facilities and at locations permitted by the District Engineer. Seaplanes may be temporarily moored on project waters and lands, except in areas prohibited by the District Engineer, for periods less than 24 hours providing that (i) the mooring is safe, secure, and accomplished so as not to damage the rights of the Government or members of the public and (ii) the operator remains in the vicinity of the seaplane and reasonable available to relocate the seaplane if necessary.

(5) Commercial operation of seaplanes from project waters is prohibited without written approval of the District Engineer following consultation with and necessary clearance from the Federal Aviation Administration (FAA) and other appropriate public authorities and effected interests.

(6) No person shall operate any seaplane while on or above project waters or adjacent project land in a careless, negligent, or reckless manner so as to endanger any person or property. Seaplanes may not be operated at Corps projects between sunset and sunrise unless adequate lighting and supervision are available.

(c) Nothing in the preceding provisions bestows authority to deviate from rules and regulations or prescribed standards of the appropriate State Aeronautical Agency, or the

Federal Aviation Administration, including but not limited to regulations and standards concerning pilot certifications or ratings, and airspace requirements.

(d) Except in extreme emergencies threatening human life or serious property loss, the air delivery of any person or thing by parachute, helicopter or other means onto project lands or waters without written permission of the District Engineer is prohibited.

(e) The provisions of this section shall not be applicable to aircraft engaged on official business of the Federal Government or used in emergency rescue in accordance with the directions of the District Engineer or forced to land due to circumstances beyond the control of the operator.

§ 327.5 Swimming.

Swimming, diving, snorkling, or scuba diving at one's own risk is permitted, except at launching sites and other areas designated by the District Engineer.

§ 327.6 Picnicking.

(a) Picnicking is permitted, except in those areas where prohibited by the District Engineer.

(b) Picnickers shall keep their sites free of trash and litter during the period of occupancy and shall remove all personal equipment and clean their sites upon departure.

§ 327.7 Camping.

(a) Camping is permitted only at sites and/or areas designated by the District Engineer.

(b) Camping at one or more campsites at any one project for a period longer than 14 consecutive days is prohibited without the written permission of the District Engineer. Written permission is required to camp at any project in excess of 14 days during any 30-day period.

(c) The placement of camping equipment on a campsite or intermittent personal appearance at a campsite for the purpose of reserving a designated campsite for future occupancy is prohibited without the written permission of the District Engineer.

(d) The digging or leveling of any ground or the construction of any structure without written permission of the District Engineer is prohibited.

(e) Campers shall keep their campsites free of trash and litter during the period of occupancy and shall clean their campsites and remove all personal equipment upon departure.

§ 327.8 Hunting, fishing, trapping.

Hunting, fishing, and trapping are permitted in accordance with applicable Federal, State, and local laws except in areas designated by the District Engineer.

§ 327.9 Sanitation.

(a) Garbage, trash, rubbish, litter, or any other waste material or waste liquid generated on the project and incidental to authorized recreational activities shall be either removed from the project or deposited in receptacles provided for that purpose. The improper disposal of such wastes on the project is prohibited.

(b) The use of refuse containers or other refuse facilities for dumping or disposal of household or commercial garbage, trash, rubbish, debris, sewage, dead animals, or litter of any kind brought onto the project is prohibited.

(c) It is a violation to bring onto a project any material for the purpose of disposal without written permission of the District Engineer.

§ 327.10 Fires.

(a) Gasoline and other fuels, except that which is contained in storage tanks of vehicles, vessels, camping equipment, or hand portable containers, shall not be carried onto or stored within the project without written permission of the District Engineer.

(b) Fires shall be confined to those areas designated by the District Engineer, and shall be confined to fireplaces, grills, or other facilities designed for this purpose. Fires shall not be left unattended and must be completely extinguished prior to departure.

(c) The gathering of wood is prohibited without written permission of the District Engineer except for the gathering of dead material on the ground for use in designated recreation areas.

§ 327.11 Control of animals.

(a) No person shall bring, or allow horses, cattle, or other livestock in camping, picnic, swimming, or other recreation areas except in areas designated by the District Engineer.

(b) No person shall bring dogs, cats, or other pets into developed recreation areas unless penned, caged, or on a leash under 6 feet in length, or otherwise under physical restraint at all times. No animals or pets are permitted in swimming beach areas. Unclaimed or unattended animals are subject to immediate impoundment and removal in accordance with State and local laws.

(c) Allowing unauthorized livestock to enter upon or to be upon project lands and failing or refusing to remove unauthorized livestock from such lands when requested by the District Engineer is prohibited.

(d) Any violation of paragraph (a), (b), or (c) of this section shall constitute a separate violation for each calendar day in which it occurs.

RULES AND REGULATIONS

§ 327.12 Restrictions.

(a) The District Engineer may establish and post a schedule of visiting hours and/or restrictions on the public use of a project or portion of a project. The District Engineer may close or restrict the use of a project or portion of a project when necessitated by reason of public health, public safety, maintenance, or other reasons in the public interest. Entering or using a project in a manner which is contrary to the schedule of visiting hours closure or restrictions is prohibited.

(b) Quiet shall be maintained in all public use areas between the hours of 10 p.m. and 6 a.m. Excessive noise during such times which unreasonably disturbs persons is prohibited.

(c) The operation or use of any audio or other noise producing device including but not limited to communications media and motorized equipment or vehicles in such a manner as to unreasonably annoy or endanger persons is prohibited.

§ 327.13 Explosive, firearms, other weapons and fireworks.

(a) The possession of loaded firearms, ammunition, loaded projectile firing devices, bows and arrows, cross bows, and explosive of any kind is prohibited unless: (1) In the possession of a State or local law enforcement officer on official business; or (2) in the possession of a Federal Government employee with law enforcement authority and on official business as approved by the District Engineer; or (3) to be used for hunting and fishing as permitted under § 327.8; or (4) to be used at authorized shooting ranges; or (5) written permission has been received from the District Engineer.

(b) The possession or use of fireworks is prohibited unless written permission has been received from the District Engineer.

§ 327.14 Public property.

Destruction, injury, defacement, removal, or any alteration of public property, including, but not limited to constructed facilities, natural formations, historical and archeological features, and vegetative growth, is prohibited without the written permission of the District Engineer. Any such destruction, removal, or alteration of public property shall be in accordance with the conditions of any permission granted.

§ 327.15 Abandonment of personal property.

(a) Personal property of any kind shall not be abandoned or left unattended upon project lands or waters. After a period of 24 hours, unattended personal property may be impounded and stored at a storage point designat-

ed by the District Engineer, who may assess a reasonable impoundment fee. Such fee shall be paid before the impounded property is returned to its owners.

(b) The District Engineer shall by public or private sale or otherwise, dispose of all lost, abandoned, or unclaimed personal property that comes into Government custody or control. However, property may not be disposed of until diligent effort has been made to find the owner, heirs or next of kin, or legal representative(s). If the owner, heirs or next of kin, or legal representative(s) are determined but not found, the property may not be disposed of until the expiration of 120 days after the date when notice, giving the time and place of the intended sale or other disposition, has been sent by certified or registered mail to that person at the last known address. When diligent effort to determine the owner, heirs or next of kin, or legal representative(s) is unsuccessful, the property may be disposed of without delay, except that if it has a fair market value of \$25 or more the property may not be disposed of until 3 months after the date it is received at the storage point designated by the District Engineer. The net proceeds from the sale of property shall be covered into the Treasury of the United States as miscellaneous receipts.

§ 327.16 Lost and found articles.

All lost articles shall be deposited by the finder at the Park Manager's office or with a ranger. The finder may leave his/her name, address, and phone number. All lost articles shall be disposed of in accordance with the procedures set forth in § 327.15.

§ 327.17 Advertisement.

Advertising by the use of billboards, signs, markers, audio devices, or any other means whatsoever including handbills, circulars, and posters is prohibited without written permission of the District Engineer. Vessels and vehicles with semipermanent or permanent painted or installed signs are exempt as long as they are used for authorized recreational activities and comply with all other rules and regulations pertaining to vessels and vehicles.

§ 327.18 Commercial activities.

The engaging in or solicitation of business without the express written agreement of the District Engineer is prohibited.

§ 327.19 Permits.

(a) It shall be a violation of these regulations to refuse to or fail to comply with the terms or conditions of any permit issued under the provisions of this regulation.

(b) Permits for floating structures of any kind in waters of water resources development projects, whether or not such waters are deemed navigable waters of the United States but where such waters are under the management of the Corps of Engineers Park Manager, shall be issued at the discretion of the District Engineer under the authority of this regulation. District Engineers will delineate those portions of the navigable waters of the United States where this provision is applicable and post notices of this designation, in the vicinity of the Park Manager's office.

(c) Permits for nonfloating structures of any kind constructed, placed in or affecting waters of water resource development projects where such waters are deemed navigable waters of the United States shall be issued under the provisions of Section 10 of the Act approved March 3, 1899, 33 U.S.C. 403. If a discharge of dredged or fill material in these waters is involved, a permit is required under Section 404 of the Federal Water Pollution Control Act (33 U.S.C. 1344). (See 33 CFR Parts 320-329.)

(d) Permits for nonfloating structures of any kind in waters of water resource development projects where such waters are under the management of a Corps of Engineers Park Manager and where such waters are not deemed navigable waters of the United States shall be issued as set forth in paragraph (b) of this section. If a discharge of dredged or fill material into any water of the United States is involved, a permit is required under Section 404 of the Federal Water Pollution Control Act (33 U.S.C. 1344). (See 33 CFR Parts 320-329.)

§ 327.20 Unauthorized structures.

The construction, placing, or continued existence of any structure of any kind under, upon, in, or over the project lands or waters is prohibited unless a permit, lease, license, or other appropriate written agreement therefore has been issued by the District Engineer. Structures not so authorized are subject to summary removal or impoundment by the District Engineer. The design, construction, placing, existence, or use of structures in violation of the terms of the permit, lease, license, or other written agreement therefore is prohibited.

§ 327.21 Special events.

(a) Special events including but not limited to water carnivals, boat regattas, music festivals, dramatic presentations, or other special recreation programs are prohibited unless written permission has been granted by the District Engineer.

(b) The public shall not be charged any fee by the sponsor of such event unless the District Engineer has approved in writing the proposed schedule of fees. The District Engineer shall have authority to revoke permission and require removal of any equipment upon failure of the sponsor to comply with terms and conditions of the permit/permission or with regulations in this Part 327. Any violation shall constitute a separate violation for each calendar day in which it occurs.

§ 327.22 Unauthorized occupation.

(a) Occupying any lands, buildings, vessels, or other facilities within water resource development projects for the purpose of maintaining same as a full- or part-time residence without the written authorization of the District Engineer is prohibited. The provisions of this section shall not apply to the occupation of lands for the purpose of camping in accordance with the provisions of § 327.7.

(b) The ranging, grazing, or watering of livestock on project lands and waters is prohibited except when authorized by lease, license, or other agreement with the District Engineer. Any violation shall constitute a separate violation for each calendar day in which it occurs.

§ 327.23 Outgranted lands.

Applicable laws and regulations of State and local governments shall be deemed to apply on project lands or waters which are outgranted by the District Engineer by lease, license, or other written agreement to State and local governments; provided, however, that the regulations in this Part 327 are deemed to apply to such outgranted project lands and waters as a minimum regulatory requirement.

§ 327.24 Indian lands.

The regulations in this Part 327 shall be deemed to apply to those lands and waters which are subject to treaties and Federal laws and regulations concerning the rights of Indian Nations and which lands and waters are incorporated, in whole or in part, within water resource development projects administered by the Chief of Engineers to the extent that the regulations in this Part 327 are not inconsistent with such treaties and Federal law and regulations.

§ 327.25 Recreation use fees.

(a) Section 2 of 86 Stat. 459 (Golden Eagle Passport Program, Pub. L. 92-347), which amends 78 Stat. 897 (The Public Land and Water Conservation Fund Act of 1965, Pub. L. 88-578), created a new Section 4(b) which requires Federal agencies developing, administering, or providing specialized sites, facilities, equipment, or services relat-

ed to outdoor recreation to collect special recreation use fees for the use of sites, facilities, equipment, or services furnished at Federal expense. The new Section 4(a), however, prohibits the Corps of Engineers from collecting entrance fees to projects. Section 210 of 82 Stat. 746 (Pub. L. 90-483) also prohibits the United States from collecting entrance or admission fees to Corps projects.

(b) At water resources development projects administered by the Secretary of the Army, acting through the Chief of Engineers, fees will not be charged for use in any combination of drinking water, wayside exhibits, roads, overlook sites, visitor centers, scenic drives, toilet facilities, picnic tables or boat ramps (except if mechanical or hydraulic boat lifts are provided).

(c) In addition, fees will not be charged for use of campgrounds which do not have the following: Designated tent or trailer spaces, drinking water, access roads, refuse containers, toilet facilities, personal fee collection, reasonable visitor protection, and simple devices for containing campfires (if campfires are permitted).

(d) At each Corps lake or reservoir where camping is permitted, the District Engineer will provide at least one primitive campground, containing designated campsites, sanitary facilities, and vehicular access, where no fees will be charged.

(e) All use fees shall be fair and equitable and will be based on the following criteria:

(1) The direct and indirect amount of Federal expenditure.

(2) The benefit to the recipient.

(3) The public policy or interest served.

(4) The comparable recreation fees charged by other Federal and non-Federal public agencies within the service area of the management unit at which the fee is charged.

(5) The economic and administrative feasibility of fee collection.

(6) The extent of regular maintenance required.

(7) Other pertinent factors.

Based upon the above criteria, it shall be the policy of the Chief of Engineers to publish in the FEDERAL REGISTER as a general notice document, the established range of fees for recreation facilities, whenever such fees are adjusted. Fees for specialized outdoor recreation facilities not mentioned above may also be established in accordance with the criteria listed in this paragraph.

(f) Any Golden Age Passport permittee shall be entitled upon presentation of such a permit to utilize special recreation facilities at a rate of 50 percent off the established use fee.

(g) Golden Eagle Passports however, do not affect the charging of use fees,

since they apply only to entrance fees, which are not charged by the U.S. Army Corps of Engineers.

(h) The District Engineer shall insure that clear notice that a fee has been established is prominently posted at each such area and at appropriate locations therein, and that it be included in publications distributed at such areas.

(i) Failure to pay authorized recreation use fees as established pursuant to Pub. L. 88-578, 78 Stat. 897, as amended, 16 U.S.C. 4601-6a is prohibited and is punishable by a fine of not more than \$100.

§ 327.26 Interference with government employees.

Interference with any Government employee in the conduct of his or her official duties pertaining to the administration of these regulations is prohibited. It is a violation to fail to comply with a lawful order directed by any Government employee in the performance of his or her official duties pertaining to the administration of these regulations.

§ 327.27 Violation of rules and regulations.

Except for violations coming within the scope of § 327.25 in accordance with Section 234 of the River and Harbor Act of 1970 (84 Stat. 1818, 16 U.S.C. 460d, as amended), violations of the provisions of this regulation shall subject the violator to a fine of not more than \$500 or imprisonment for not more than 6 months, or both. Any person charged with such violation may be tried and sentenced in accordance with the provisions of Section 3401 of Title 18, United States Code. All persons designated by the Chief of Engineers for that purpose shall have the authority to issue a citation for violation of these regulations, requiring the appearance of any person charged with violation to appear before the U.S. magistrate within whose jurisdiction the water resource development project is located. (Section 4, 58 Stat. 889, as amended; 16 U.S.C. 460d).

§ 327.28 [Reserved]

§ 327.29 [Reserved]

§ 327.30 Lakeshore management at civil work projects.

(a) *Purpose.* The purpose of this regulation is to provide policy and guidance on the protection of desirable environmental characteristics of Civil Works lake projects and restoration of shorelines where degradation has occurred through private exclusive use.

(b) *Applicability.* This regulation is applicable to all field operating agencies with Civil Works responsibilities.

RULES AND REGULATIONS

This regulation is not applicable to lake project lands when such application would result in an impingement upon existing Indian rights.

(c) *References.*

(1) Section 4, 1944 Flood Control Act, as amended, Pub. L. 87-874.

(2) The Act of August 31, 1951 (31 U.S.C. 483a).

(3) The National Environmental Policy Act of 1969, Pub. L. 91-190.

(4) The Federal Water Pollution Control Act (FWPCA).

(5) Title 36, Chapter III, Part 327, Code of Federal Regulations, "Rules and Regulations Governing Public Use of Water Resource Development Projects Administered by the Chief of Engineers."

(6) Executive Order 11752.

(7) 33 CFR Parts 320-329, "Regulatory Program of the Corps of Engineers."

(d) *Policy.* (1) It is the policy of the Chief of Engineers to manage and protect the shorelines of all lakes under its jurisdiction to properly establish and maintain acceptable fish and wildlife habitat, esthetic quality and natural environmental conditions and to promote the safe and healthful use of these shorelines for recreational purposes by all of the American people. Ready access to an exit from these shorelines of the general public shall be provided, in accordance with paragraph (c)(1) of this section. For projects where Corps real estate interest is limited to easement title only, management action will be appropriate to assure the safety of the public who use the lake waters. It is the objective of the Corps to manage private exclusive use of public property to the degree necessary to gain maximum benefits to the general public. Such action will consider all forms of benefits such as: recreation, esthetics and fish and wildlife.

(2) It is the policy of the Chief of Engineers that private exclusive use will not be permitted on new lakes or on lakes where no private facilities or uses exist as of the date of this regulation. Such use will be permitted only to honor any past commitments which have been made.

(3) A Lakeshore Management Plan, as described in paragraph (e) of this section will be prepared for each Corps lake project where private recreation facilities exist as of the date of this regulation. Discretion will be used in preparation of those plans to provide for protection of public lands and private investments and honor any past commitments which might have been made. For projects where two or more agencies have jurisdiction, the plan will be cooperatively prepared with the Corps assuming the role of coordinator. Public participation will be encouraged to the fullest extent in

preparation and implementation of the Lakeshore Management Plans. A Lakeshore Management Plan will not be required for new lakes or at completed projects where no private facilities exist as of the date of this regulation. However, a statement of policy will be furnished by the District Engineer to the Division Engineer to present the lake project management condition.

(4) Boat owners will be encouraged to moor their boats at commercial marinas, utilize dry storage facilities off project lands or trailer their boats to public launching ramps which are provided by the Corps at no charge.

(5) When private floating boat moorage facilities are desired, community mooring facilities will be encouraged in an effort to reduce the proliferation of individual facilities. It is the policy to issue only one permit for a community boat mooring facility with one person designated as the permittee and responsible for all moorage spaces of the facility. If, for extenuating circumstances, this approach is not feasible the District Engineer is authorized to grant individual permits for individual moorage sections of the community moorage facility. The latter method is strongly discouraged.

(e) *Lakeshore Management Plan.*—

(1) *General.* The policies outlined in paragraph (d) of this section will be implemented by preparation of Lakeshore Management Plans as described below.

(2) *Preparation.* For each project having limited development areas a Lakeshore Management Plan will be prepared as Appendix F to the Master Plan. Lakeshore Management Plans will be prepared as soon as practicable and, like the other Appendixes to the Master Plan, will be working, management tools. Upon announcement of initiation of each specific Lakeshore Management Plan the District Engineer will declare a moratorium on accepting applications for permits until the plan is completed. Consideration should be given to preparing Lakeshore Management Plans during the period of least recreation activity and maximum effort will be devoted to early completion of the Lakeshore Management Plan, once the effort has begun. The objectives are to be able to inform individuals of decisions regarding lakeshore management at an early date and not create an undue hardship on private industries dependent upon private recreation facilities. Approval of this Appendix rests with the Division Engineer. After approval, two copies of the Lakeshore Management Plan will be forwarded to HQDA (DAEN-CWO-R) WASH DC 20314.

(3) *Scope and Format.* The Plan will consist of an area allocation map, related rules and regulations, a time-

phase definitive objective plan for managing the lakeshore, descriptions of recreational waste management systems and sanitary facilities, and other information pertinent to the effective management of the lakeshore. Activities on land areas which affect the lakeshore, as well as activities on the water areas will be addressed in the Lakeshore Management Plan.

(4) *Lakeshore Designation.* As part of the Lakeshore Management Plan, the entire lakeshore of the project will be designated within the classification below and depicted on a map. In addition to the classification described below, District Engineers are authorized to add specific constraints and identify areas having unique characteristics not identified herein.

(i) *Limited Development Areas.* Limited development areas are those areas where private exclusive use privileges and facilities may be permitted consistent with Appendix A and paragraph (h) of this section. When vegetation modification on these lands is accomplished by chemical means the program will be consistent with the current Federal regulations as to herbicide registration and application rates.

(ii) *Public Recreation Areas.* On shorelines within or proximate to designated or developed recreation areas, private floating recreation facilities are not permitted. The extent of the term, proximate, will depend on the terrain, road system and similar factors. Commercial concessionaire facilities are permitted in these areas. An adequate buffer area with this allocation type will be established to protect the concession operation from invasion by private exclusive use facilities. Modification of land form or vegetative characteristics is not permitted by individuals in these areas.

(iii) *Protected Lakeshore Areas.* Protected lakeshore areas are designated primarily to protect esthetic, environmental, fish, and wildlife values in accordance with the policies of the National Environmental Policy Act of 1969 (Pub. L. 91-190). Lakeshores may also be designated in this category for physical protection reasons, such as heavy siltation, rapid dewatering or exposure to high winds and currents. Land access and boating are permitted along these lakeshores, provided esthetic, environmental and natural resource values are not damaged or destroyed, but no private floating recreation facilities may be moored in these areas. Modification of land form or vegetative communities by individuals in Protected Lakeshore Areas will be permitted only after due consideration of the effects of such action on environmental and physical characteristics of the area.

(iv) *Prohibited Access Areas.* These lakeshore areas are allocated for protection of ecosystems or the physical safety of the recreation visitors; for example, unique fish spawning beds, certain hazardous locations, and areas located near dams or spillways. Mooring of private floating recreation facilities and modification of land form and vegetative communities are not permitted in these areas.

(5) *Public Participation.* District Engineers will insure that the public participates to the maximum practicable extent in the formulation and preparation of Lakeshore Management Plans and any subsequent major revisions. When master plan updates and preparation of the Lakeshore Management Plans are concurrent, the public meetings should be combined and consider all aspects, including the lakeshore allocation classifications. Maximum use will be made of news releases, public notices, congressional liaison and public meetings to encourage full public participation. Special care will be taken to advise local citizen organizations, conservation organizations, Federal, State and local natural resource management agencies and other concerned bodies as well as adjacent landowners during the formulation of Lakeshore Management Plans. Published notices shall be required on several successive weeks prior to public meetings to assure maximum public participation. Ample time shall be permitted for review and comment by concerned organizations and individuals. Public notices shall be issued by the District Engineer allowing a minimum of 30 days for receipt of public comment in regard to the proposed Lakeshore Management Plan or any major revision thereto.

(f) *Instruments for Private Exclusive Use.* Criteria used to determine the type of instrument to be used for private exclusive use facilities or developments are as follows:

(1) *Lakeshore Use Permit.* Lakeshore Use Permits are issued and enforced in accordance with provisions of § 327.19, Chapter III, Title 36, Code of Federal Regulations, for private floating recreation facilities. Lakeshore Use Permits are issued for floating structures of any kind in waters of resource projects whether or not such waters are deemed navigable and where such waters are under the primary jurisdiction of the Secretary of the Army and under the management of a Corps of Engineers Park Manager. On waters deemed non-navigable, Lakeshore Use Permits will be issued for non-floating structures when such waters are under management of a Corps Park Manager. Lakeshore Use Permits are issued for vegetative modification activities on the land which do not involve in any way a disruption to or a

change in land form. Situations which require a Real Estate instrument are covered in paragraph (f)(3) of this section.

(2) *Department of the Army Permits.* Activities such as dredging, construction of fixed structures, including fills and combination fixed-floating structures and the discharge of dredged or fill material in navigation waters will be permitted under conditions specified in permits issued under authority of Section 10, River and Harbor Act of March 3, 1899 (33 U.S.C. 403) and Section 404 of the Federal Water Pollution Control Act (33 U.S.C. 1344) in accordance with reference (c)(7). Lakeshore Use Permits, paragraph (f)(1) of this section, will not be used under these circumstances.

(3) *Real Estate Instruments.* All commercial development activities and all activities by individuals which are not covered above and involve grade, cuts, fills, other changes in land form or appropriate land-based support facilities required for private floating facilities will be covered by a lease, license or other legal grant issued by the Real Estate Directorate.

(g) *Transfer of Permits.* All Lakeshore Use Permits are non-transferable. Upon sale or other transfer of the permitted facility or the death of the permittee the permit is null and void. The voided permit site, if located in a Limited Development Area, may become available for permit application by all members of the public for issuance in an impartial manner if consistent with the Lakeshore Management Plan.

(h) *Existing Facilities Now Under Permit.* The schedule for implementation of the Lakeshore Management Plan shall be developed in full consideration of existing permitted exclusive use facilities, their residual value and the prior Corps commitment implicit in the issuance of the permits. Except under unusual circumstances, such facilities should in general remain under permit until replacement is required, or until death of the permittee, or until sale or cessation of use of the facility. In the instance of multi-slip, multi-owner permits for private floating facilities and corporation-owned private floating facilities, the structure must be located in areas specifically allocated in the Lakeshore Management Plan. When existing floating facilities of this type are located in areas not approved for limited development under the Lakeshore Management Plan, a grandfather rights provision will apply. Such provision will extend for the period of time that the facility will pass annual inspections without major repair by the permittee(s). At that time the floating facility will be removed or repaired

and relocated to an approved location by the owner under a new permit.

(i) *Density of Development.* The density of private floating recreation facilities will be established by the District Engineer for all portions of Limited Development Use Areas in the Lakeshore Management Plan. The densities will be consistent with ecological and esthetic characteristics. In all cases, the density of development specified in the Lakeshore Management Plan will not be more than 50 percent of that shoreline allocated as Limited Development Areas. In those cases where current density of development exceeds the density level established in the Lakeshore Management Plan, and density will be reduced gradually to the prescribed level by employing such guidelines necessary to protect the integrity of the shoreline environment.

(j) *Administration Charge.* In accordance with the provisions of paragraphs (c)(1) and (c)(2) of this section, a charge will be made for Lakeshore Use Permits to help defray expenses associated with issuance and administration of the permits. As permits become eligible for renewal after July 1, 1976 a charge of \$10 for each new permit and a \$5 annual fee for inspection of floating facilities will be made. There will be no annual inspection fee for permits for vegetative modification on lakeshore areas. In all cases the total administration charge will be collected initially at the time of permit issuance rather than on a piecemeal annual basis.

(k) *Compliance.* Lakeshore Management Plans will be prepared for all applicable Corps of Engineers lakes at which private exclusive recreation uses exist.

APPENDIX A—GUIDELINES FOR GRANTING PERMITS FOR PRIVATE FLOATING RECREATION FACILITIES

1. GENERAL

a. Decisions regarding the granting of permits for private floating recreation facilities must be made in considered relationship to the operating objectives and physical characteristics of each project. Such decisions must avoid giving the appearance of converting public property, on which the permitted facility is located, to private, exclusive use. In every case, the foremost objective is to secure maximum storage of boats and related equipment at commercial concession areas. Through direction of the boat-owning public to such areas, the Corps strives to minimize the number of shoreline developments which could prove esthetically distracting, unreasonably injurious to the environment or limit use of Federal property by the general public.

b. Revocable permits for private exclusive use facilities, either individually or community-owned, will be granted in Limited Development Areas when the sites are removed from commercial marine services and the granting of such permits will not despoil the shoreline nor inhibit the public use or enjoyment thereof. District Engineers will

RULES AND REGULATIONS

insure that private floating recreation facilities will be located in areas that do not presently enjoy reasonable access to commercial marine services and that, insofar as practicable, the installation and use of such facilities will not be in conflict with the preservation of the natural characteristics of the lake or shoreline. Park Managers will continuously monitor the number and nature of permits with a view towards timely establishment of additional commercial storage areas in lieu of permitting dispersed private facilities. Administrative charges will be made for Lakeshore Use Permits in accordance with paragraph (j) of § 327.30.

c. Revocable permits will be granted for ski jumps, floats, boat moorage facilities, all types of duck blinds, and other private floating recreation facilities, where such facilities will not inhibit the public use or enjoyment of the project waters or shoreline. At projects where ice fishing houses or duck blinds are regulated by State program, a Corps permit will not be required. Permits will not be granted for private floating recreation facilities at or proximate to existing or potential public recreation areas.

d. Private floating recreation facilities will be permitted only in areas of the lakeshore which have been allocated as Limited Development Areas in the Lakeshore Management Plan. The density of development in such areas will not exceed 50% of areas allocated to such use.

e. Community boat mooring facilities will be encouraged where practicable in an effort to reduce the proliferation of individual facilities.

2. APPLICATIONS FOR LAKESHORE USE PERMITS

a. Applications for any private waterfront recreation facilities made to District Engineers or their designated Park Managers will be reviewed with full consideration of the policies set forth in the previous paragraph, referenced regulations, and the Lakeshore Management Plan. Applicants for a permit shall, prior to the start of construction, submit for approval plans and specifications of the facility proposed, including: engineering details, structural design, anchorage method, construction materials, the type, size, location and ownership of the facility, the expected duration of the use and an indication of willingness to abide by the rules and regulations and the conditions of the permit. Specifications and plans which have been certified by a licensed Engineer will be approved. Permit applications shall also identify any located land-based support facilities which may require a Real Estate Instrument.

b. Permits will be issued by the District Engineer or authorized representative in accordance with approved forms for periods of 1 to 5 years, but are revocable by the District Engineer whenever the District Engineer determined that the public interest requires such revocation or that the permittee has failed to comply with conditions of the permit or of this regulation. Permits for duck blinds and ice fishing houses will be issued for one year only. Specified acts permits will continue to be issued by the District Engineer as necessary, for short terms to provide for corrective measures such as tree removal and erosion control.

c. Effective on receipt of this regulation, the following will guide the issuance of this type of permit:

(1) The use of boating mooring facilities, including piers and boathouses, will be limited to the mooring of watercraft and the storage of gear essential to the operation of the watercraft.

(2) Private floating recreation facilities, including boat mooring facilities described in (1) above, shall not be used for human habitation or in a manner which gives the appearance of converting public property on which the facility is located to private, exclusive use.

(3) No private floating facility will exceed the minimum size required to moor the owner's boat or boats plus the minimum size required for an enclosed locker for the storage of oars, life preservers and other items essential to the operation of the watercraft.

(4) All private floating recreation facilities will be constructed in accordance with plans and specifications approved by the District Engineer, authorized representative, or as certified by a licensed Engineer.

(5) The size of all structures will be kept to a minimum to limit encroachment of the water surface.

(6) The procedures set forth in this regulation regarding the issuance of permits for individual facilities shall also apply to the issuance of permits for non-commercial community piers.

(7) Where facilities are anchored to the shore, they shall be securely anchored by means of moorings which do not obstruct the free use of the shoreline or unduly damage vegetation.

(8) Boat mooring buoys and flotation units of floating facilities shall be constructed of material which will not become waterlogged or sink when punctured.

(9) The color and marking of all boat mooring buoys will conform to the Uniform State Waterway Marking System, and the top of the buoy will be no less than eighteen inches above the waterline.

(10) All private floating recreation facilities will be placed so as not to interfere with navigation.

(11) Permits for private boat piers or boathouses and mooring facilities will be issued only when the owner files a permanent address and telephone number with the Park Manager at which the applicant may be reached in case of emergency.

(12) The District Engineer or his authorized representative is authorized to place special conditions in the permit deemed necessary. It may be desirable in some locations to establish a minimum surveillance interval to be observed by the facility owner or representative.

3. REMOVAL OF FACILITIES

The facilities of permittees which are not removed when specified in the permit or when requested after revocation of the permit will be treated as unauthorized structures pursuant to Title 36, Chapter III, § 327.20, of the Code of Federal Regulations.

4. POSTING OF PERMIT NUMBER

Each District will procure 5" x 8" printed permit tags for posting on the floating facilities. The permit tags will be fabricated of either light metal or paper. Where display permits are printed on paper, they will be placed in plastic to make them weatherproof after the permit number and the expiration date have been affixed thereon. The original of the completed application-permit is to be in the possession of the permittee. The duplicate of this form will be retained in the Park Manager's office. The permit numbers will be consecutive for each project

beginning with number 0001. The District Engineer is authorized to include letters in the permit for further identification as an aid to the project management. The permittee will be required to display the printed tag so that it can be visually checked with ease.

APPENDIX B—APPLICATIONS FOR LAKESHORE USE PERMIT [RESERVED]

APPENDIX C—CONDITIONS OF PERMIT FOR LAKESHORE USE

1. This permit is granted solely for the purpose described by the permittee on the opposite side of this form.

2. The permittee agrees to and does hereby release and agree to save and hold the Government harmless from any and all causes of action, suits at law or equity, or claims or demands or from any liability of any nature whatsoever for or on account of any damages to persons or property, including the permitted facility, growing out of the ownership, construction, operation or maintenance by the permittee of the permitted facilities.

3. The ownership, construction, operation or maintenance of the permitted facility is subject to the Government's navigation servitude.

4. No attempt shall be made by the permittee to forbid the full and free use by the public of all navigable waters at or adjacent to the permitted facility or to unreasonably interfere with navigation in connection with the ownership, construction, operation or maintenance of the permitted facility.

5. The permittee agrees that if subsequent operations by the Government require an alteration in the location of the permitted facility or if in the opinion of the District Engineer the permitted facility shall cause unreasonable obstruction to navigation or that the public interest so requires the permittee shall be required, upon written notice from the District Engineer to remove, alter, or relocate the permitted facility without expense to the Government.

6. The Government shall in no case be liable for any damage or injury to the permitted facility which may be caused by or result from subsequent operations undertaken by the Government for the improvement of navigation or for other lawful purposes, and no claims or right to compensation shall accrue from any such damage.

7. The ownership, construction, operation and maintenance of the permitted facility is subject to all applicable Federal, State and local laws and regulations.

8. This permit does not convey any property rights either in real estate or material; and does not authorize any injury to private property or invasion of private rights or any infringement of Federal, State or local laws or regulations nor does it obviate the necessity of obtaining State or local assent required by law for the construction, operation or maintenance of the permitted facility.

9. The permittee shall comply promptly with any lawful regulations or instructions of any Federal, State or local government agency.

10. The permittee agrees to complete the facility construction action within one year of the permit issuance date. The permit shall become null and void if the construction action is not completed within that period. Further, the permittee agrees to operate and maintain the permitted facility in

a manner so as to minimize any adverse impact on fish and wildlife habitat, natural environmental values and in a manner so as to minimize the degradation of water quality.

11. At such time that the permittee ceases to operate and maintain the permittee facility, upon expiration of this permit, or upon revocation of this permit, the permittee shall remove the permitted facility within 30 days, at his/her expense, and restore the waterway and lands to its former condition. If the permittee fails to remove and so restore to the satisfaction of the District Engineer, the District Engineer may do so by contract or otherwise and recover the cost thereof from the permittee.

12. The use of the permitted facility shall be limited to the mooring of watercraft and the storage, in inclosed locker facilities, of gear essential to the operation of such watercraft.

13. Neither the permitted facility nor any houseboat, cabin cruiser, or other vessel regularly moored thereto shall be used for human habitation or in any manner which gives the appearance of converting the public property, on which the facility is located, to private, exclusive use.

14. No houseboat, cabin cruiser, or other vessel shall be used for human habitation at a fixed permanent mooring point.

15. No charge may be made for use by others of the permitted facility nor may any commercial activity be engaged in thereon.

16. The size of all structures shall be kept to a minimum to limit encroachment on the water surface.

17. Boating mooring buoys and flotation units of floating facilities shall be constructed of materials which will not become waterlogged or sink when punctured.

18. Floating structures are subject to periodic inspection by the Corps rangers. If an inspection reveals that conditions exist which make the facility unsafe in any way or that conditions exist which deviate from the approved plans, such conditions will be corrected immediately by the owner upon receipt of notification. No deviation or changes from approved plans will be permitted without prior written approval of the Park Manager.

19. Floating facilities shall be securely anchored to the shore in accordance with the approved plans by means of moorings which do not obstruct the free use of the lake-shore.

20. That the display permit tag provided shall be posted on the floating facility or on the land areas covered by the permit so that it can be visually checked with ease in accordance with instructions of the Park Manager.

21. No vegetation other than that prescribed in the permit may be damaged, destroyed, or removed.

22. No change in land form such as grading, excavation, or filling may be done.

23. No vegetation planting of any kind may be done, other than that specifically prescribed in the permit.

24. This permit is nontransferable. Upon the sale or other transfer of the permitted facility or the death of the permittee, this permit is null and void.

25. By 30 days' written notice, mailed to the permittee by registered or certified letter the District Engineer may revoke this permit whenever it is determined that the public interest necessitates such revocation or when the District Engineer determines

that the permittee has failed to comply with the conditions of this permit. The revocation notice shall specify the reasons for such action. If within the 30-day period, the permittee, in writing requests a hearing, the District Engineer shall grant such hearing at the earliest opportunity. In no event shall the hearing date exceed 60 days from the date of the hearing request. At the conclusion of such hearing, the District Engineer shall render a final decision in writing and mail such decision to the permittee by registered or certified letter. The permittee may, within 5 days of receipt of the decision of the District Engineer, appeal such decision to the Division Engineer. The decision of the Division Engineer shall be rendered as expeditiously as possible and shall be sent to the permittee by registered or certified letter. The permittee may, within 5 days of receipt of the decision of the Division Engineer appeal such decision in writing to the Chief of Engineers. The decision of the Chief of Engineers shall be final from which no further appeal may be taken.

26. Notwithstanding condition 25 above if, in the opinion of the District Engineer, emergency circumstances dictate otherwise the District Engineer may summarily revoke the permit.

APPENDIX D—PERMIT (RESERVED)

Dated: February 22, 1979.

For the Chief of Engineers.

THORWALD R. PETERSON,
Colonel, Corps of Engineers, Executive Director, Engineer Staff.

[FR Doc. 79-7098 Filed 3-7-79; 8:45 am]

[6712-01-M]

Title 47—Telecommunication

CHAPTER I—FEDERAL COMMUNICATIONS COMMISSION

[FCC 79-125]

PART 2—FREQUENCY ALLOCATIONS AND RADIO TREATY MATTERS: GENERAL RULES AND REGULATIONS

PART 97—AMATEUR RADIO SERVICE

Amendments of Rules Concerning the Northern Mariana Islands

AGENCY: Federal Communications Commission.

ACTION: Order (Rulemaking).

SUMMARY: The Northern Mariana Islands has recently been added to the Commission's jurisdiction. Certain charts and tables in the amateur rules are being amended to reflect this change in the Commission's jurisdiction.

EFFECTIVE DATE: March 13, 1979.

ADDRESSES: Federal Communications Commission, 1919 "M" St. NW., Washington, D.C. 20554.

FOR FURTHER INFORMATION CONTACT:

Mr. Robert Cassler, Private Radio Bureau (202-634-6620).

SUPPLEMENTARY INFORMATION:

In the matter of amendments of Parts 2 and 97 of the Commission's rules concerning the Northern Mariana Islands.

Adopted: February 22, 1979.

Released: March 2, 1979.

By the Commission:

1. On January 9, 1978, as a step toward eventual political union with the United States as a Commonwealth, the Northern Mariana Islands came under the jurisdiction of those laws of the United States which have general applicability to the several States. Previously, these islands were administered by the United States for the United Nations as part of the Trust Territory of the Pacific Islands, and those persons seeking authorization to operate a radio station were required to apply to the High Commissioner of the Trust Territory of the Pacific Islands. As of January 9, 1978, the Communications Act of 1934, being a law of general applicability to the several States, became applicable to the Northern Mariana Islands, and jurisdiction over radio stations on the Northern Mariana Islands passed from the High Commissioner to the Federal Communications Commission.

2. Certain amendments to the rules governing the Amateur Radio Service in Parts 2 and 97 of the Commission's Rules are necessary to reflect the change of status of the Northern Mariana Islands. Two minor amendments to Parts 2 and 97 concern the frequency bands available to amateur radio operators on the Northern Mariana Islands. The Northern Mariana Islands lie in Region 3. Most of the rest of the United States lies in Region 2. International allocations for the Amateur Radio Service are different for Region 3 than for Region 2. Footnote NG62 to § 2.106 and § 97.61(b)(4) are being amended to reflect this.

3. The other two amendments concern the use of the 1800-2000 kHz amateur band. Because this band is shared with the radionavigation (LORAN-A) service, input power is limited according to geographic area. The charts in footnote NG15 to § 2.106 and § 97.61(b)(2) are being amended to add the Northern Mariana Islands to the list.

4. Authority for these rule changes is contained in Sections 4(i) and 303 of the Communications Act of 1934. Because these amendments are basically minor changes in the rules to reflect

SAM AR000989-SAM AR000997

shareholder's interest in each corporation includible in the consolidation.

[FR Doc. 78-3354 filed 2-8-78; 8:45 am]

[1505-01]

[26 CFR Part 1]

[LR-194-77]

DEFERRED TAX TREATMENT OF AMOUNTS OF COMPENSATORY PAYMENTS

Proposed Rulemaking

Correction

In FR Doc. 78-3041, appearing at page 4638 in the issue of Friday, February 3, 1978, make the following changes:

1. On page 4638, second column, the last line of the "Dates" paragraph should read, "on or after a date 30 days following publication of this regulation as a Treasury decision in the FEDERAL REGISTER."

2. On page 4638, third column, the last line of the paragraph headed "Exception" should read, "before a date 30 days following publication of this regulation as a Treasury decision in the FEDERAL REGISTER."

3. On page 4639, second column, the ninth line of § 1.61-16(b) should read, "prior to date 30 days following publication of this section as a Treasury decision."

[3710-92]

DEPARTMENT OF DEFENSE

Corps of Engineers, Department of the Army

[36 CFR Parts 313, 322; 327]

PUBLIC USE OF WATER RESOURCE DEVELOPMENT PROJECTS ADMINISTERED BY THE CHIEF OF ENGINEERS

Notice of Proposed Rulemaking

AGENCY: Corps of Engineers, DOD.

ACTION: Proposed rule.

SUMMARY: The proposed rule and regulation deletes Parts 313 and 322 and amends Part 327 of Title 36 of the Code of Federal Regulations. The purpose is to clarify and strengthen existing rules and regulations and eliminate duplication of regulations. It will provide more effective management of Corps of Engineer water resource development projects.

DATES: Comments must be received on or before March 27, 1978.

ADDRESSES: Send comments to: HQDA (DAEN-CWO-R) Washington, D.C. 20314.

FOR FURTHER INFORMATION CONTACT:

Ray Mitchell, Recreation Resource Management Branch, Construction-Operations Division, Office, Chief of Engineers 202-693-7177.

SUPPLEMENTARY INFORMATION:

DELETIONS

The regulations contained in part 313 apply only to the Sam Rayburn Reservoir Area, Angelina River, Tex., which is administered as a joint venture by the Corps of Engineers and the U.S. Forest Service, Department of Agriculture, each operating under their respective laws and regulations. Each of the two agencies separate regulations are comparable and comprehensive enough to effectively manage their respective areas or jurisdiction. Part 327 contains those basic rules and regulations governing public use of Corps of Engineers water resource development projects; therefore Part 313 is duplicative and unnecessary.

The same rationale applies to Part 322 which contains rules and regulations for a joint venture of the Corps of Engineers with the U.S. Fish and Wildlife Service, Department of the Interior, at Great Salt Plains Dam and Reservoir Area, Okla.

AMENDMENT

The amendments to Part 327 are necessary to reflect new and increasing recreation activities and to clarify and strengthen selected rules and regulations for more effective management and enhanced public enjoyment of Corps water resource development projects.

Section 327.25 has been amended to allow for greater flexibility in establishing special recreation use fees for specific projects in accordance with the provisions of subsection 4(b) and 4(c) of Pub. L. 88-574 (78 Stat. 897) as amended.

NOTE.—The U.S. Army Corps of Engineers has determined that this document does not contain a major proposal requiring preparation of an Inflation Impact Statement Under Executive Order 11821 and OMB Circular A-107.

The proposed changes to the Rules and Regulations Governing Public Use of Water Resource Development Projects Administered by the Chief of Engineers (36 CFR Chapter III) are as follows:

PART 313—WATER RESOURCE DEVELOPMENT PROJECTS HAVING JOINT REGULATIONS [DELETED]

1. Part 313 is deleted.

PART 322—PUBLIC USE OF SALT PLAINS NATIONAL WILDLIFE REFUGE AND GREAT SALT PLAIN DAM AND RESERVOIR AREA, SALT FORK OF ARKANSAS RIVER, OKLA. [DELETED]

2. Part 322 is deleted.

PART 327—RULES AND REGULATIONS GOVERNING PUBLIC USE OF WATER RESOURCE DEVELOPMENT PROJECTS ADMINISTERED BY THE CHIEF OF ENGINEERS

3. The Table of Contents to Part 327 is revised as follows:

Sec.
327.0 Applicability.
327.1 Policy.

Sec.
327.2 Vehicles.
327.3 Vessels.
327.4 Aircraft.
327.5 Swimming.
327.6 Picnicking.
327.7 Camping.
327.8 Hunting, fishing and trapping.
327.9 Sanitation.
327.10 Fires.
327.11 Control of animals.
327.12 Restrictions.
327.13 Explosives, firearms, other weapons and fireworks.
327.14 Public property.
327.15 Abandonment of personal property.
327.16 Lost and found articles.
327.17 Advertisement.
327.18 Commercial activities.
327.19 Permits.
327.20 Unauthorized structures.
327.21 Special events.
327.22 Unauthorized occupation.
327.23 Outgranted lands.
327.24 Indian lands.
327.25 Recreation use fees.
327.26 Interference with Government employees.
327.27 Violation of rules and regulations.
327.28 [Reserved]
327.29 [Reserved]
327.30 Lakeshore management on civil works projects.

AUTHORITY: Sec. 4, Act of December 22, 1944, 58 Stat. 889, as amended, 16 U.S.C. 460 d; sec. 210 of Pub. L. 90-483, 82 Stat. 746; and Pub. L. 88-578, 78 Stat. 897, as amended, 16 U.S.C. 4601-6a.

4. Sections 327.0 through 327.3 are revised as follows:

§ 327.0 Applicability.

The regulations covered in this Part 327 shall be applicable to water resource development projects completed or under construction, administered by the Chief of Engineers, and to those portions of jointly administered water resource development projects which are under the administrative jurisdiction of the Chief of Engineers. All other Federal, State and local laws and regulations remain in full force and effect where applicable to those water resource development projects.

§ 327.1 Policy.

(a) It is the policy of the Secretary of Army acting through the Chief of Engineers to manage the natural and cultural resources of each project in the public interest, providing the public with safe and healthful recreational opportunities while protecting and enhancing these resources.

(b) Unless otherwise indicated herein, the term "District Engineer" shall included the authorized representatives of the District Engineer.

(c) The term "project" or "water resource development project" as used herein refers to all federally owned fee lands and all water areas and all facilities therein or thereon that are contained in any water resource development project.

(d) All water resource development projects open for public use shall be available to the public without regard to sex, race, color, creed, or national

origin. No lessee, licensee, or concessionaire providing a service to the public shall discriminate against any person because of sex, race, creed, color or national origin in the conduct of the operations under the lease, license or concession contract.

§ 327.2 Vehicles.

(a) This section pertains to all vehicles, including, but not limited to, automobiles, motorcycles, mini-bikes, trail bikes, snowmobiles, dune buggies, all terrain vehicles, bicycles, and trailers, campers or any other such equipment.

(b) Vehicles shall not be parked in violation of posted restrictions, or in such manner as to endanger any person or property. The owner of any vehicle parked in violation of this section shall be presumed to have parked it, and unless rebutted such presumption will be sufficient to sustain a conviction as provided for in § 327.27.

(c) The operation of a vehicle off roadways is prohibited except at locations and times designated by the District Engineer.

(d) (1) Vehicles shall be operated only in accordance with posted regulations. (2) No person shall operate any vehicle in a careless, negligent or reckless manner so as to endanger any person (including the operator and/or passenger(s) of the vehicle) or property.

(e) At developed areas, vehicles shall be used only for ingress and egress unless otherwise posted.

(f) Except as authorized by the District Engineer no person shall operate any motorized vehicle without a proper and effective exhaust muffler, or with an exhaust muffler cutout open, or in any other manner which renders the exhaust muffler ineffective in muffling the sound of engine exhaust.

§ 327.3 Vessels.

(a) The placement and/or operation of any vessel or watercraft for a fee or profit upon project waters or lands is prohibited except as authorized by permit, lease, license or concession contract with the Department of Army. This paragraph shall not apply to the operation of commercial tows or passenger carrying vessels not based at a Corps project which utilize project waters as a link in continuous transit over navigable waters of the United States.

(b) (1) Vessels or other watercraft may be operated in project waters, except in prohibited or restricted areas designated by the District Engineer. (2) The operation of vessels or other watercraft in a careless, negligent or reckless manner so as to endanger any property or person (including the operator and/or user(s) of the vessel or watercraft) is prohibited.

(c) Vessels or other watercraft shall not be utilized for overnight occupancy

while moored in commercial facilities, community or corporate docks or at any fixed or permanent mooring point. Any such moored vessel or other watercraft may only be used for overnight occupancy when such use is incidental to its primary use for recreational boating and the vessel or other watercraft is not used as a place of habitation.

(d) Water skis or other similar devices are permitted except they may not be used in a careless, negligent or reckless manner so as to endanger any property or person including the user or operator of the vessel.

(e) All vessels when not in actual use for 24 hours shall be removed from the project unless securely moored at mooring facilities approved by the District Engineer. The placing of floating or stationary mooring facilities to, or interfering with a buoy, channel marker, or other navigational aid is prohibited.

(f) (1) The use at a project of any vessel not constructed and maintained in compliance with the standards and requirements established by the National Safe Boating Act of 1971 (Pub. L. 92-75, 85 Stat. 213), or promulgated pursuant to such act, is prohibited. (2) The discharge of sewage, galley waste, garbage or pollutants into the project waters from any vessel or watercraft is prohibited.

(g) Except as authorized by the District Engineer no person shall operate any vessel or watercraft without a proper and effective exhaust muffler, or with an exhaust muffler cutout open, or in any other manner which renders the exhaust muffler ineffective in muffling the sound of engine exhaust.

5. Sections 327.5 through 327.11 are revised as follows:

§ 327.5 Swimming.

Swimming, diving, snorkeling or scuba diving at one's own risk is permitted, except at launching sites and other areas designated by the District Engineer.

§ 327.6 Picnicking.

(a) Picnicking is permitted, except in those areas where prohibited by the District Engineer.

(b) Picnickers shall remove all personal equipment and shall clean their sites upon departure.

§ 327.7 Camping.

(a) Camping is permitted only in areas and at sites designated by the District Engineer.

(b) Camping at one or more campsites at any one project for a period longer than 14 consecutive days is prohibited without the written permission of the District Engineer. Written permission is required to camp at any project in excess of 14 days during any 30 day period.

(c) Leaving a campsite unoccupied

during the first night after camping equipment or other property have been set up, or leaving camping equipment or other property unattended for more than 24 hours is prohibited without the written permission of the District Engineer.

(d) The digging or leveling of any ground or the construction of any structure without written permission of the District Engineer is prohibited.

(e) Campers shall keep their campsites free of trash and litter during the period of occupancy and shall clean their campsites and remove all personal equipment upon departure.

§ 327.8 Hunting, fishing and trapping.

Hunting, fishing and trapping are permitted in accordance with applicable Federal, State and local laws except in areas designated by the District Engineer.

§ 327.9 Sanitation.

(a) Garbage, trash, rubbish, litter or any other waste material or waste liquid generated on the project and incidental to authorized recreational activities shall be either removed from the project or deposited in receptacles provided for that purpose. The improper disposal of such wastes on the project is prohibited.

(b) The use of refuse containers or other refuse facilities for dumping or disposal of household or commercial garbage, trash, rubbish, debris, sewage, dead animals or litter of any kind brought onto the project is prohibited.

(c) It is a violation to bring onto a project any material for the purpose of disposal without written permission of the District Engineer.

§ 327.10 Fires.

(a) Gasoline and other fuels, except that which is contained in storage tanks of vehicles, vessels, camping equipment or hand portable containers, shall not be carried onto or stored within the project without written permission of the District Engineer.

(b) Fires shall be confined to those areas designated by the District Engineer, and shall be confined to fireplaces, grills, or other facilities designed for this purpose. Fires shall not be left unattended and must be completely extinguished prior to departure.

(c) The gathering of wood is prohibited without written permission of the District Engineer except for the gathering of dead material on the ground for use in designated recreation areas.

§ 327.11 Control of animals.

(a) No person shall bring, or allow horses, cattle, or other livestock in camping, picnic, swimming or other recreation areas except in areas designated by the District Engineer.

(b) No person shall bring dogs, cats or other pets into developed recreation areas unless penned, caged, on a leash under 6 feet in length or otherwise

under physical restraint at all times. No animals or pets are permitted in swimming beach areas. Unclaimed or unattended animals are subject to immediate impoundment and removal in accordance with State and local laws.

(c) Allowing unauthorized livestock to enter upon or to be upon project lands and failing or refusing to remove unauthorized livestock from such lands when requested by the District Engineer is prohibited.

(d) Any violation of (a), (b) or (c) above shall constitute a separate violation for each calendar day in which it occurs.

6. Paragraph (a) of § 327.12 is revised as follows:

§ 327.12 Restrictions.

(a) The District Engineer may establish and post a schedule of visiting hours and/or restrictions on the public use of a project or portion of a project. The District Engineer may close or restrict the use of a project or portion of a project when necessitated by reasons of public health, public safety, maintenance or other reasons in the public interest. Entering or using a project in a manner which is contrary to the schedule of visiting hours, closure or restrictions is prohibited.

7. Paragraph (a) of § 327.13 is revised as follows:

§ 327.13 Explosives, firearms, other weapons and fireworks.

(a) The possession of loaded firearms, ammunition, projectile firing devices, bows and arrows, cross bows and explosives of any kind is prohibited unless: (1) in the possession of a State or local law enforcement officer on official business; or (2) in the possession of a Federal Government employee with law enforcement authority and on official business as approved by the District Engineer; or (3) to be used for hunting and fishing as permitted under § 327.8; or (4) to be used at authorized shooting ranges; or (5) written permission has been received from the District Engineer.

8. Section 327.14 is revised as follows:

§ 327.14 Public property.

Destruction, injury, defacement, removal or any alteration of public property, including, but not limited to constructed facilities, natural formations, historical and archeological features and vegetative growth, is prohibited without the written permission of the District Engineer. Any such destruction, removal or alteration of public property shall be in accordance with

the conditions of any permission granted.

9. Paragraph (a) of § 327.15 is revised as follows:

§ 327.15 Abandonment of personal property.

(a) Personal property of any kind shall not be abandoned or left unattended upon project lands or waters. After a period of 24 hours, unattended personal property shall be impounded and stored at a storage point designated by the District Engineer, who may assess a reasonable impoundment fee. Such fee shall be paid before the impounded property is returned to its owners.

10. Sections 327.16 and 327.17 are revised as follows:

§ 327.16 Lost and found articles.

All lost articles shall be deposited by the finder at the Resource Manager's Office or with a Ranger. The finder may leave his name, address and phone number. All lost articles shall be disposed of in accordance with the procedures set forth in § 327.15, above.

§ 327.17 Advertisement.

Advertising by the use of bill boards, signs, markers, audio devices or any other means whatsoever including handbills, circulars, and posters is prohibited without written permission of the District Engineer. Vessels and vehicles with semi-permanent or permanent painted or installed signs are exempt as long as they are used for authorized recreational activities and comply with all other rules and regulations pertaining to vessels and vehicles.

11. Sections 327.19 through 327.21 are revised as follows:

§ 327.19 Permits.

(a) It shall be a violation of these regulations to refuse to comply with the terms or conditions of any permit issued under the provisions of this regulation.

(b) (1) Permits for floating structures of any kind in waters or water resources development projects whether or not such waters are deemed navigable waters of the United States but where such waters are under the management of a Corps of Engineers lake Resources Manager shall be issued at the discretion of the District Engineer under the authority of this regulation. District Engineers will delineate those portions of the navigable waters of the United States where this provision is applicable and post notices of this designation, in the vicinity of the lake Resource Managers Office.

(2) Permits for non-floating structures of any kind constructed, placed

in or affecting waters of water resource development projects where such waters are deemed navigable waters of the United States shall be issued under the provisions of section 10 of the Act approved March 3, 1899. If a discharge of dredged or fill material in these waters is involved, a permit is required under section 404 of the Federal Water Pollution Control Act of 1972 (Pub. L. 92-500). (See 33 CFR 320.329.)

(3) Permits for non-floating structures of any kind in waters of water resources development projects where such waters are under the management of Corps of Engineers lake Resources Manager and where such waters are not deemed navigable waters of the United States shall be issued as set forth in subparagraph (1) of this paragraph. If a discharge of dredged or fill material into any waters of the United States is involved, a permit is required under section 404 of the Federal Water Pollution Control Act of 1972 (Pub. L. 92-500). (See 33 CFR 320.329.)

§ 327.20 Unauthorized structures.

The construction, placing or continued existence of any structure of any kind under, upon, in or over the project lands or waters is prohibited unless a permit, lease, license or other appropriate written agreement therefor has been issued by the District Engineer. Structures not so authorized are subject to summary removal or impoundment by the District Engineer. The design, construction, placing, existence, or use of structures in violation of the terms of the permit, lease, license or other written agreement therefor is prohibited.

§ 327.21 Special events.

(a) Special events, including but not limited to water carnivals, boat regattas, music festivals, dramatic presentations, or other special recreation programs are prohibited unless written permission therefor have been granted by the District Engineer.

(b) The public shall not be charged any fee by the sponsor of such event unless the District Engineer has approved in writing the proposed schedule of fees. The District Engineer shall have authority to revoke his permission and require removal of any equipment upon failure of the sponsor to comply with terms and conditions of the permit/permission or with regulations in part 327. Any violation shall constitute a separate violation for each calendar day in which it occurs.

12. Paragraphs (a) and (b) of § 327.22 are revised as follows:

§ 327.22 Unauthorized occupation.

(a) Occupying any lands, buildings, vessels or other facilities within water resource development projects for the

purpose of maintaining same as a full or part time residence without the written authorization of the District Engineer is prohibited. The provisions of this section shall not apply to the occupation of lands for the purpose of camping in accordance with the provisions of § 327.7.

(b) The ranging, grazing or watering of livestock on project lands and waters is prohibited except when authorized by lease, license or other agreement with the District Engineer. Any violation shall constitute a separate violation for each calendar day in which it occurs.

13. Paragraphs (a)(1), (d) and (g) of § 327.25 are revised as follows:

§ 327.25 Recreation use fees.

(a) (1) Section 2 of 86 Stat. 459 (Golden Eagle Passport Program, Pub. L. 92-347), which amends 78 Stat. 897 (The Public Land and Water Conservation Federal Act of 1965, Pub. L. 88-578), Section 4(b) which requires Federal agencies developing, administering or providing specialized sites, facilities, equipment or services related to outdoor recreation to collect special recreation use fees for the use of sites, facilities, equipment, or services furnished at Federal expense. Section 4(a), however, prohibits the Corps of Engineers from collecting entrance fees to projects. Section 210 of 82 Stat. 746 (Pub. L. 90-483) also prohibits the United States from collecting entrance or admission fees to Corps projects.

(d) All use fees shall be fair and equitable and will be based on the following criteria:

- (1) The direct and indirect amount of Federal expenditure.
- (2) The benefit to the recipient.
- (3) The public policy or interest served.
- (4) The comparable recreation fees charged by other Federal and non-Federal public agencies within the service area of the management unit at which the fee is charged.
- (5) The economic and administration feasibility of fee collection.
- (6) The extent of regular maintenance required, and
- (7) Other pertinent factors.

Based on the above criteria it shall be the policy of the Chief of Engineers to publish in the FEDERAL REGISTER as a general notice document, the established range of fees for recreation facilities, whenever such fees are adjusted. Fees for specialized outdoor recreation facilities not mentioned above may also be established in accordance with the criteria listed in this paragraph.

(g) Failure to pay authorized recreation use fees as established pursuant to Pub. L. 88-578, 78 Stat. 897, as amended, 16 U.S.C. 4601-6a is prohibited and is punishable by a fine of not more than \$100.

14. Section 327.26 is revised as follows:

§ 327.26 Interference with Government employees.

Interference with any Government employee in the conduct of his or her official duties pertaining to the administration of these regulations is prohibited.

15. The following headings are inserted to show that §§ 327.28 and 327.29 are reserved.

§ 327.28 [Reserved]

§ 327.29 [Reserved]

16. The appendices to § 327.30 are amended as follows:

§ 327.30 Lakeshore management at civil work projects.

LIST OF APPENDIXES TO § 327.30

APPENDIX A—GUIDELINES FOR GRANTING PERMITS FOR PRIVATE FLOATING RECREATION FACILITIES

APPENDIX B—APPLICATION FOR LAKESHORE USE PERMIT [RESERVED]

APPENDIX C—LAKESHORE USE PERMIT CONDITIONS

APPENDIX D—PERMIT [RESERVED]

APPENDIX A.—GUIDELINES FOR GRANTING PERMITS FOR PRIVATE FLOATING RECREATION FACILITIES

1. *General.*—a. Decisions regarding the granting of permits for private floating recreation facilities must be made in consideration of relationship to the operating objectives and physical characteristics of each project. Such decisions must avoid giving the appearance of converting public property, on which the permitted facility is located, to private, exclusive use. In every case, the foremost objective is to secure maximum storage of boats and related equipment at commercial concession areas. Through direction of the boat-owning public to such areas, the Corps strives to minimize the number of shoreline developments which could prove aesthetically distracting, unreasonably injurious to the environment or limit use of Federal property by the general public.

2. *Applications for lakeshore use permits.*

c. Effective on receipt of this regulation, the following will guide the issuance of this type of permit:

(1) The use of boating mooring facilities, including piers and boat houses, will be limited to the mooring of watercraft and

the storage of gear essential to the operation of the watercraft.

(2) Private floating recreation facilities, including boat mooring facilities described in (1) above, shall not be used for human habitation or in a manner which gives the appearance of converting the public property on which the facility is located to private, exclusive use.

APPENDIX B.—APPLICATIONS FOR LAKESHORE USE PERMIT [RESERVED]

APPENDIX C.—CONDITIONS OF PERMIT FOR LAKESHORE USE

12. The use of (the permitted facility) shall be limited to the mooring of watercraft and the storage, in inclosed locker facilities, of gear essential to the operation of such watercraft.

13. Neither (the permitted facility) nor any houseboat, cabin cruiser, or other vessel regularly moored thereto shall be used for human habitation or in any manner which gives the appearance of converting the public property, on which the facility is located, to private, exclusive use.

14. No houseboat, cabin cruiser or other vessel shall be used for human habitation at a fixed or permanent mooring point.

15. No charge may be made for use by others of the permitted facility nor commercial activity be engaged in thereon.

16. The size of all structures shall be kept to a minimum to limit encroachment on the water surface.

17. Boating mooring buoys and flotation units of floating facilities shall be constructed of materials which will not become waterlogged or sink when punctured.

18. Floating structures are subject to periodic inspection by the Corps rangers. If an inspection reveals conditions which make the facility unsafe in any way or conditions which deviate from the approved plans, such conditions will be corrected immediately by the owner upon receipt of notification. No deviation or changes from approved plans will be permitted without prior written approval of the Resource Manager.

19. Floating facilities shall be securely anchored to the shore in accordance with the approved plans by means of moorings which do not obstruct the free use of the lakeshore.

20. That the display permit tag provided shall be posted on the floating facility or on the land areas covered by the permit so that it can be visually checked with ease in accordance with instructions of the Resource Manager.

21. No vegetation other than that prescribed in the permit may be damaged, destroyed or removed.

22. No change in land form such as grading, excavation or filling may be done.

23. No vegetation planting or any kind may be done, other than that specifically prescribed in the permit.

24. This permit is non-transferable. Upon the sale or other transfer of the permitted facility or the death of the permittee, this permit is null and void.

25. By 30 days written notice, mailed to the permittee by registered or certified letter, the District Engineer may revoke this permit whenever he determines that the public interest necessitates such revocation or when he determines that the permittee

lishing beginning and ending dates for the period or periods during which training was precluded by disability. These decisions will be presented in a memorandum rating; M21-1, chapter 47, will be changed to reflect this additional memorandum rating responsibility of the rating board.

(1) Existence of a physical or mental disability which precluded training will be found if medical evidence clearly establishes a diagnosable disease, injury, or other defect judged to have made training medically infeasible. The rating board must also fix inclusive dates defining the period during which training was not medically feasible.

(2) Notwithstanding medical evidence of a disability, medical infeasibility of training ordinarily may not be found for any period during which the claimant was employed full time. However, the rating board will ensure that such employment was not part of a medically prescribed rehabilitation program or did not otherwise indicate an inability to pursue training effectively before finding that training was not precluded.

(b) When necessary, determinations concerning willful misconduct will be made in accordance with M21-1, paragraph 14.04. If such a decision is within jurisdiction of the rating board (cases involving disease—see par. 14.04e(1)), the decision will be incorporated in the memorandum rating provided for in subparagraph a above. Otherwise a separate administrative decision prepared by the Authorization activity will be required.

(c) A disability of less than 30 days' duration will not entitle a veteran or eligible spouse to a delimiting date extension unless the claimant shows exceptional circumstances in which he or she was prevented from enrolling or reenrolling in the chosen program of education (see par. 5), or was forced to discontinue attendance, because of the short disability. A statement from the claimant citing the specific circumstances (including, for example, registration or examination dates with which the disability interfered) will be accepted in the absence of contradictory information. Any necessary development of information for this minimum length of disability requirement will be accomplished by the Authorization activity after the rating board has determined inclusive dates of the disability.

(d) Until further notice, end product code 220 will be assigned for extended delimiting date approvals and disallowances with rating board action.

5. *Chosen Program of Education.* The program of education to be pursued during an extended delimiting period will be whichever of the following applies. Once a program is initiated or continued during the extended period, no changes of program will be permitted.

(a) If the claimant had no prior training under chapter 34 or 35, any approved program of education may be initiated.

(b) If the claimant had chapter 34 or 35 training after the end of his or her disability, only training for completion of the last program of education for which VA benefits were paid may be pursued.

(c) If the claimant received no chapter 34 or 35 training after the period of disability, he or she may pursue only completion of the last program for which VA benefits were paid, unless a VA counseling psychologist recommends approval of a change of program because of limitations resulting from the disability.

6. *Length of Period of Disability.* The length of the period during which training was precluded by disability will be determined as follows:

(a) The beginning of the period will be the first day of the claimant's basic 10-year delimiting period or the first day on which the claimant's disability rendered training medically infeasible as determined by the rating board, whichever date is later.

(b) The end of the period will be the earliest of the following dates:

(1) The date on which the claimant could have first enrolled or reenrolled in an ordinary term (summer sessions excluded) in the chosen program of education after training became medically feasible as determined by the rating board. The term in question depends on the school formerly attended, if training was not completed, or the school the claimant now wishes to attend if training is being initiated.

Example: A claimant was disabled and regained medical feasibility for training on August 1, 1975. The claimant had been enrolled last at State University (or will now initiate a program at State University). This school began its ordinary fall term on September 10, 1975. The end of the period during which training was precluded would be September 10, 1975. Reference to back issues of school catalogs or bulletins, or contact with school officials, may be required to determine such dates in the past which represented a claimant's next opportunity to enroll. For claimants whose program of education is not organized on a term basis, the ending date of the period will be the date on which training became medically feasible.

(2) The date on which the claimant enrolled or reenrolled, if such date preceded the date specified in subparagraph (1).

(3) The claimant's basic delimiting date. The length of any extension granted will not provide any individual with more than 10 years of eligibility during which training was medically feasible.

7. *Beginning and ending dates.* (a) The effective (beginning) date of an extended delimiting period will be elected by the claimant.

(1) The elected effective date may be any date on or after the claimant's basic delimiting date, but no later than the first day of the first ordinary term at the claimant's school beginning 90 days or more after VA approval of the extension (or no later than 90 days after VA approval of the extension for courses not offered on a term basis).

(2) Explanation of this election, including a statement as to the claimant's best advantage if this can be determined, will be included in notification of the approval of the delimiting date extension.

(3) The claimant will also be informed that this election, once it has been made, is irrevocable.

(b) The ending date of the extended period will be established by adding to the beginning date the length of the period of disability as determined under paragraph 6. The day after this ending date becomes the claimant's new delimiting date for all educational benefit purposes. Once an extended delimiting period has been granted, it will not be extended further because of either recurrence of disability or the onset of a new disability. Note that although benefit payments may be made up to the new delimiting date, payments will not be continued beyond completion of the chosen program of education. Changes of program

during an extended delimiting period will not be allowed. Normal progressions of courses (i.e., from bachelor of arts degree to a master of arts program) are not changes of program and therefore are permitted during an extended delimiting period.

8. *Notification to the claimant.* (a) The claimant will be informed of a disallowance of the application for extended delimiting date by dictated letter giving the specific reason for disallowance and enclosing full statement of appellate and procedural rights.

(b) If the application for an extended delimiting date is approved, the claimant will be notified at once by dictated letter, which will include the following information:

(1) The length of time the extended period will run, and a clear explanation of how this period was determined.

(2) An explanation of the possible beginning dates for the extended delimiting period as specified in paragraph 7a and a request for the claimant's election of the beginning date. VA Form 21-4138 will be enclosed for the claimant's use. He or she must also be made aware that the election will be final after it has been made and the extended delimiting date will run continuously from the chosen beginning date.

(3) The claimant will also be informed that benefits will be paid during the extended delimiting period only for the chosen program of education, and payments will not be made beyond the completion of such program or the new delimiting date, whichever occurs first.

(4) Notice of appellate and procedural rights will also be enclosed.

9. *Award procedures.* (a) Before any educational benefits can be paid during an extended delimiting period, it will be necessary to establish a new delimiting date in the claimant's master record. The new delimiting date will be computed using the effective date of the extended period (par. 7a) and adding to it the approved length of the extended period (par. 6). The delimiting date (first no-pay date) will be the date resulting from this computation. For example, assume a claimant's extended period is elected to begin with enrollment on January 20, 1978. Adding an approved extended period of 11 months and 15 days to this date yields January 5, 1979, which will be established as the claimant's new final delimiting date.

(1) Chapter 34 veterans—Until the computer system can be modified, it will be necessary to change the released from active duty (RAD) date in the claimant's service data to generate the proper new delimiting date. This may be accomplished on VA Form 22-1997S by entering a computed (fictitious) RAD along with all other required service data (see M22-2, pt. IV, ch. 4, par. 4.10e and footnote 1). The correct RAD entry for the above example would be January 5, 1989. All cases for which the fictitious adjustment is made must be controlled for readjustment of service date after system modifications are completed. Note that if a chapter 34 claimant has less than 45 months of original entitlement, the entered on active duty date (EOD) will also have to be adjusted in accordance with the RAD adjustment to maintain the correct original net entitlement in the master record.

(2) Chapter 35 spouses—The proper new delimiting date will be established by transacting 02V to correct field 392. Until further notice, this correction will not be processed on VA Form 22-1997S.

(b) After a new delimiting date has been established, any required award action may be prepared on VA Form 22-1997S. Legislative rate change lines need not be inserted if the award covers retroactive periods; the scan program will generate the required change lines. Initial awards for an extended delimiting period will require a dictated award letter confirming the claimant's chosen program of education and the elected beginning date of the extended period, and explaining all rates and effective dates

DOROTHY L. STARBUCK,
Chief Benefits Director.

IDVB Circular 20-77-971

APPENDIX C—VETERANS ADMINISTRATION
EDUCATION LOANS

1. *Purpose.* This appendix provides instructions for implementing the provisions of Pub. L. 95-202 which amended 38 U.S.C. 1798 to increase the education loan amount effective January 1, 1978. Pub. L. 95-202 also made numerous other changes in the education loan program.

2. *General.* (a) Pub. L. 95-202 increased the absolute maximum a veteran or eligible person may borrow, not to exceed \$311 multiplied by the months of entitlement remaining at the beginning of the academic year or other period to which the loan is to apply. This provision is effective October 1, 1977.

(b) The following provisions are effective January 1, 1978: (1) The maximum loan amount was increased to an amount not to exceed \$2,500 in any one regular academic year;

(2) NCD (non-college-degree) courses that are less than 6 months in length may be considered for a waiver of the 6-month requirement for students seeking NCD loans;

(3) Guaranteed Student Loan Program denials are no longer required;

(4) Each veteran or eligible person, upon application for a loan, must assign to the VA (Veteran's Administration) any accelerated payment to which he/she may become entitled and any matching contribution by a State or local governmental unit; and

(5) Loan payment checks will generally be mailed to the veteran's or eligible person's school for delivery to the veteran or eligible person.

(c) Loans can now be made up to 2 years following a veteran's or eligible spouse's delimiting date under certain limited conditions. This provision is effective November 23, 1977, and applies to any veteran, spouse, or surviving spouse whose delimiting date was May 31, 1976 or later.

3. *Increased loan amounts.* (a) Effective October 1, 1977, the absolute maximum that a claimant may borrow may not exceed \$311 multiplied by the months of remaining entitlement at the beginning of the academic year or other period to which the loan applies. Loan amounts will be rounded upwards to the nearest \$10. Notwithstanding the limitation imposed on loan amounts by the veteran's or eligible person's remaining entitlement, the maximum loan amount that may be paid up through December 31, 1977, may not exceed \$1,500 per academic year, and the maximum loan amount that may be paid on or after January 1, 1978, may not exceed \$2,500 per academic year. Effective January 1, 1978, the maximum loan amount for an academic year of \$2,500 is adjusted for various enrollment periods as follows:

(1) Courses organized on a term basis:

Period:	Maximum
Academic year ¹	\$2,500
Semester	1,250
Quarter or summer session ²	825
Academic year plus summer session ..	3,325
Semester plus summer session	2,075
Quarter plus summer session	1,650

¹ Academic year means the 9-month period, usually from August or September to May or June, which generally includes 2 semesters or 3 quarters.

² For purposes of the VA education loan program, summer session means a designated summer term of at least 10 weeks' duration. A summer term is the whole of the summer period of instruction, regardless of divisions made for administrative purposes. For example, the 10-week requirement would be met if the student were to enroll in the first of 2 5-week sessions and intended to reenroll in the second 5-week session.

(2) Courses not organized on a term basis:

Length of course (months):	Maximum (per month)
3 through 5	\$275
6 through 8	1,650
9 through 11	2,500
12	3,325

NOTE.—No loan will be made for a course of less than 3 full months in length. Above 3 full months, 15 calendar days or more will be rounded to next higher month.

(b) Loan requests being considered or reconsidered after receipt of this circular will be handled under the following procedures:

(1) If a loan request is being considered and the VA Form 22-8726, Promissory Note, has not yet been released, the VA Form 22-8727, Education Loan Worksheet, Items 7C and 7D, must be amended to reflect the new maximum (\$2,500) and absolute maximum (\$311 multiplied by months of remaining entitlement) loan amounts payable. These adjustments might also result in a different approved loan amount (Item 8). If necessary, the Promissory Note must be completed to reflect the new approved loan amount.

(2) If the Promissory Note has been released but has not yet been returned, the Finance activity, upon its return, will immediately process it for payment. If the original loan amount was the old maximum (\$1,500) or old absolute maximum (\$292 multiplied by months of remaining entitlement), the Finance activity will following payment, refer the case to Adjudication for reconsideration of the loan amount. (In such cases a specific request for reconsideration is not required.) If it is determined that an additional amount is payable, a Promissory Note will be sent to the claimant showing only the additional amount payable along with an explanation of the loan reconsideration under Pub. L. 95-202.

(3) Loans paid to veterans or eligible persons for enrollment periods during which there was an increase in the maximum (\$1,500 increased to \$2,500) or absolute maximum (\$292 increased to \$311 multiplied by months of remaining entitlement) loan amount payable may be reconsidered for a possible adjustment to a higher amount. Such reconsideration shall be made for the entire enrollment period based upon the increased rates in effect at the end of the enrollment period. Items 7C and 7D on the Education Loan Worksheet must be adjusted as appropriate. If it is determined that an additional amount is payable, a Promissory Note will be sent to the claimant showing only the additional amount payable. It should be noted, however, that loans shall only be reconsidered pursuant to a specific request received from the veteran or eligible

person within 1 year from the end of the applicable enrollment period (except as indicated in subpar. (2), above). No general review of cases will be made nor will any action be taken when such cases are encountered during routine processing.

4. *Waiver of NCD 6-month requirement.* (a) 38 U.S.C. 1798(c)(1)(B) previously limited NCD education loans to those veterans and eligible persons attending NCD courses which require 6 months or longer to complete. Pub. L. 95-202 amended 38 U.S.C. 1798(c)(1)(B) to provide for a waiver of this 6-month requirement if it is determined to be in the interest of the veteran or eligible person and the Federal Government.

(b) Applications for education loans from veterans or eligible persons attending approved NCD courses which require less than 6 months to complete will be disapproved unless a waiver has been granted by the VA. The applicant will be given the reasons for the disapproval by dictated letter and informed that a waiver of the 6-month requirement may be requested by the school (if the school has not previously applied).

(c) A school may apply for a waiver to the VA regional office Director having jurisdiction of the area where the school is located. The application must be accompanied by an affidavit signed by the President, owner of Chief Official of the school. The affidavit must certify:

(1) The percentage of students, whose enrollment ended during the past 2 years, who completed the course (this information may be established from the most recent Occupational Graduate employment report (Schools), VA Form 22-8723 (Oct. 1976), by dividing entry on line 3 by entry on line 1, and multiplying by 100);

(2) The percentage of all students (no exclusions for any reason) completing the course over the past 2 years who obtained employment in the occupational category for which the course was designed to provide training or in a closely related occupation (this information may be established from the most recent Occupational Graduate Employment Report (Schools), VA Form 22-8723 (Oct. 1976), by dividing the sum of the entries on line 16 and line 17 by the entry on line 12, and multiplying by 100);

(3) The approved length of the course;

(4) The training time for which the course is approved (e.g., full time);

(5) The percentage of all students currently enrolled in the school receiving VA educational benefits; and

(6) The default rate under any DHEW (Department of Health, Education and Welfare) loan program where students at the school have been eligible for and granted such loans. (If loans have been granted under any DHEW loan program, the school must submit, with this certification, a statement signed by a DHEW official verifying the default rate.)

NOTE.—The application for waiver, other related information and any decision based on the application will be made a part of the approval folder.

(d) The regional office Director shall review waiver requests to determine if they meet the following requirements:

(1) The course completion rate must be 75 percent or more for the preceding 2 years (this may be taken from the most recent VA Form 22-8723 (Oct. 1976), by dividing entry on line 3 by entry on line 1, and multiplying by 100);

(2) 75 percent or more of the graduates of the course during the preceding 2 years must have gained employment in the occupation for which trained or in a closely related occupation (this may be taken from the most recent VA Form 22-8723 (Oct. 1976), by dividing the sum of the entries on line 16 and line 17 by the entry on line 12, and multiplying by 100);

(3) The course must require at least 3 months to complete;

(4) The course must be approved for full-time attendance only;

(5) The percentage of all students currently enrolled in the school receiving VA educational benefits must not exceed 35 percent;

(6) The cumulative default experience on all VA education loans made at the educational institution must not exceed 5 percent or 5 cases, whichever is greater. (This will be determined by the station fiscal officer from the station's current RCS 22-8, VA Educational Loan Payment/Default Report. The percentage will be the total defaults divided by the total loans disbursed.)

(7) The cumulative default experience on DHEW loans must not exceed 5 percent or 5 cases, whichever is greater (refer to school affidavit and DHEW statement); and

(8) There must have been no serious discrepancies discovered at the school by the SAA (State approving agency) on supervisory visits or the VA on compliance surveys during the previous 2 years.

(e) If the above requirements have not been met, the regional office Director is authorized to deny requests for waiver. The denial letter to the school will state the reason for denial and advise the school that it may request an administrative review of the decision by Central Office within 1 year from the date of the denial letter. A copy of the denial letter shall be filed in the approval folder. Such a request for review should be made to the regional office. If a request for review is received, the complete record, including the approval folder and compliance survey file, will be sent to the Field Director (225B) for review and decision. The regional office shall notify the school by letter when the record is forwarded to Central Office. The Central Office decision will be sent to the regional office Director for written notice to the school.

(f) If the requirements of subparagraph d, above, have been met, the waiver request shall be forwarded to Central Office. The complete record, including the approval folder and compliance survey file, will be sent to the Field Director (225B) for review and decision. The regional office shall notify the school by letter when the record is forwarded to Central Office. The Central Office decision will be sent to the regional office Director for written notice to the school. If a waiver is granted, appropriate notice must be given the Authorization activity.

5. *Guaranteed student loan denials not required.* (a) Applicants are no longer required to seek and be unable to obtain a loan under the GSLP (Guaranteed Student Loan Program) as provided for under part B of title IV of the Higher Education Act of 1965. Veterans and eligible persons applying for VA education loans are therefore no longer required to submit two denials from lenders for GSLP loans or a statement that such loans are not available. VA Form 22-8725, Application for Education Loan, will be revised to account for this change. Existing application forms must be modified by hand pending publication of this revised form.

(1) Modifications to the instructions should be as follows: Delete item 2A(3); change rates to reflect the new rates; delete item 3B (item 10A); and delete item 5.

(2) Modifications to the application should be as follows: Delete the "NOTE" under PART II; delete "Name and Address of Lender" after item 10A and add "Guaranteed Student Loan"; and delete the Supplement to Application for Education Loan.

(b) Although GSLP loan denials are no longer required, such loans, as well as other non-VA financial assistance, must be considered when determining need for the VA education loan program. If the application indicates that non-VA financial assistance (including GSLP loans) has been applied for but not yet approved, the amount applied for must be considered available to the applicant when determining need for the VA education loan.

(1) If the applicant's available resources, excluding the amount of non-VA assistance applied for but not received, exceed expenses, the application should be immediately disallowed.

(2) If available resources, including the amount of non-VA assistance applied for but not received, exceed expenses, the application must be deferred pending finalization of the applications for non-VA assistance. A pending end product 230 will be established for a 60-day control period. The applicant must be notified that further action on the VA education loan application cannot be taken until final action has been taken on the applications for non-VA financial assistance. The applicant should also be asked to notify the VA of the dates and total amounts approved. If the applicant fails to respond within the control period, the end product 230 will be taken without further notification to the applicant.

(3) If the application indicates that non-VA assistance has been applied for but does not specify the dollar amount applied for, development action must be undertaken to determine the specific amount.

(4) If available resources, including the amount of non-VA assistance applied for but not received, do not exceed expenses, a loan may be approved without waiting for the application for non-VA assistance to be finalized. The amount of non-VA assistance will be considered available income in determining the amount of the loan to be granted. The applicant must then be notified that the loan amount may be reconsidered if the non-VA assistance is not received, or is received in a lesser amount than applied for. Such notification will be by dictated letter and will also contain the general information contained on FL 22-891.

6. *Assignment of accelerated payments.* (a) 38 U.S.C. 1798(f)(1) has been added which requires that each veteran or eligible person eligible for a VA education loan shall, upon application for a loan, assign to the benefit of the VA the amount of any accelerated payment to which such veteran or eligible person may become entitled and any matching contribution by a State or local governmental unit. Until VA Form 22-8725 can be amended to accomplish this, the following statement must be signed and dated by the applicant and attached to the application: "I hereby assign to the benefit of the VA the amount of any accelerated payment to which I may become entitled from the VA and any matching contribution from a State or local governmental unit pursuant to 38 U.S.C. 1682A(b)(8)."

(b) If the above assignment is not included with loan applications processed on or after

January 1, 1978 and the tuition exceeds \$700 per school year and the student is attending full-time, immediate action should be taken to obtain the assignment. The above statement (subpar. a) may be typed on a VA Form 21-4138 and forwarded to the applicant. The applicant should also be informed that his/her loan application cannot receive final approval until the signed and dated assignment has been received by the VA.

7. *Processing loan applications.* (a) 38 U.S.C. 1798(f)(2) has been added which requires that each loan payment will be drawn in favor of the veteran or eligible person and mailed to the school in which the veteran or eligible person is enrolled. The school will then deliver the check to the veteran or eligible person as soon as practicable after its receipt and certify to the VA that the check has been delivered.

(1) The delivery of the check by the school and the certification to the VA that the check was delivered will entitle the school to the \$11 advance payment reporting fee. Further instructions on the advance payment reporting fee for delivery of loan payment checks will be covered in a future publication.

(2) If a school does not choose to deliver loan payment checks to veterans and eligible persons, or if it is determined that the school cannot satisfactorily care for and deliver them, loan payment checks will be mailed directly to the veteran or eligible person. Under such circumstances, the Finance activity will process loan payments using the veteran's or eligible person's current mailing address as shown on the Promissory Note. A certification of delivery will not be required.

(b) VA Form 22-8725 will be modified as soon as possible to specifically ask if the school will agree to participate in the delivery of loan payment checks. Pending receipt of the revised forms, all field stations will take immediate action to contact schools within their jurisdiction to determine if the schools will process the loan payment checks. Contact should be made by letter or telephone with the certifying official and/or financial aid officer at all IHL's and those NCD institutions that offer programs of at least 6 months' duration. As the information is received, a list will be prepared to show the schools' responses. This information will be made available to Authorization and Finance personnel involved in the processing of education loans. If a school has not yet responded when a loan application is received, telephone contact will be made to obtain the school's decision prior to preparing the Promissory Note.

(c) The Promissory Note will be revised by Authorization to show that the loan payment will be mailed to the student in care of the school or sent directly to the student's current address. Until the revised forms are available, the Promissory Note must be appropriately modified whenever the school agrees to deliver the loan payment check. The modification will be as shown in the following example:

"Your education loan check will be mailed to you in care of your school at the following address:

University of Nebraska, For Ron Oldsmobile, 14th and R Streets, Lincoln, Nebr. 68508."

The address of the school to be shown on the Promissory Note must be the official school address that is maintained in the ap-

proval file. If the school will not process the loan check, the Promissory Note will be modified by Authorization to show: "Your education loan check will be mailed to your current address shown below."

(d) A new form to obtain the school certification of delivery of the education loan payment check, VA Form 4-5220a, Certification of Delivery of Education Loan Payment, (CODL), will be used to verify delivery (see Exhibit A). This form is a three-part set that will be initiated by the Finance activity when the loan payment checks are to be mailed to the schools. This form must have the same mailing address for the school as that maintained in the approval file. This address will be obtained by the Finance activity from the Promissory Note.

(1) Upon delivery of the check, the veteran or eligible person must sign the certification of delivery. The school certifying official will then certify the delivery of the loan payment check. The school will retain a copy of the certification for their records and return the original to the VA regional office at the address shown on the certification.

(2) If no school address is shown on the Promissory Note, the loan payment check will be mailed to the veteran's or eligible person's mailing address, and the Finance activity will not prepare a certification of delivery.

(3) The Finance activity will prepare the CODL in an original and two copies. Pending receipt of the CODL carbon sets, a temporary supply of single sheet forms will be furnished stations as soon as possible (see Exhibit A). The original and one copy will accompany the SF1166, Voucher and Schedule of Payments, to the Treasury Disbursing Center for insertion with the loan payment check. The other copy will be retained by Finance as a pending control. The veteran or eligible person will sign the statement to certify receipt of the check. The school certifying official will also sign the CODL to certify delivery and return the original to the VA. The copy will be kept by the school for their records. Additional finance instructions will be published shortly.

8. *Loans after delimiting date.* (a) 38 U.S.C. 1662(a)(2) and 1712(f) were added to allow education loans for up to 2 years after a veteran's spouse's or surviving spouse's delimiting date. (It should be noted that this provision does not apply to children.) After a veteran's, spouse's or surviving spouse's delimiting date, unused entitlement may be used to establish eligibility to an education loan if the veteran, spouse or surviving spouse was pursuing an approved program of education at a full-time rate on the delimiting date. He/she must be enrolled full time in the same approved program of edu-

cation during the period for which the loan is requested. The claims or DEA folder must be carefully reviewed to determine if these two conditions are met. A veteran, spouse or surviving spouse will be considered enrolled on his/her delimiting date if the delimiting date occurs during a scheduled school break and he/she was enrolled at a full-time rate in the immediately preceding term. Enrollment in a summer term is not required. Unused entitlement may be used to establish loan eligibility until the earliest of the following:

(1) Two years from the date of enactment of Pub. L. 95-202 (November 23, 1979), or 2 years from delimiting date, whichever is later; or

(2) Unused entitlement used to establish loan eligibility has been exhausted (entitlement is used at the rate of 1 month for each month of entitlement that would have been used had the veteran, spouse or surviving spouse been in receipt of educational assistance allowance); or

(3) Approved program of education in which enrolled on delimiting date is completed. (Normal progression will be permitted.)

(b) Once a veteran, spouse or surviving spouse has qualified for an education loan after his/her delimiting date, full-time enrollment in the same program would be required to qualify for any subsequent loan. For example, a veteran who has received a loan after his/her delimiting date for the spring semester of the 1977-78 school year, would be eligible for a loan for fulltime attendance in the same program in the spring semester of the 1978-79 school year (even though there was an intervening summer session or semester during which the veteran was not enrolled or was enrolled at less than full time). If a veteran's, spouse's or surviving spouse's delimiting date occurs during an enrollment period for which a loan is requested, two separate loans will be required for that enrollment period.

(1) The first, if allowable, will cover the period beginning with the start of the enrollment period and ending with the last date of eligibility (delimiting date). The loan amount for that portion of the enrollment period that occurs prior to the delimiting date will be based upon the entire enrollment period except that the aggregate amount of the loan will be based on the actual number of months, including fractional months, from the beginning of the enrollment period to the delimiting date. A second loan, is allowable, will be made for the period following the delimiting date.

(2) A second application must be filed after the delimiting date for that portion of the enrollment period that follows the delimiting date. When the Promissory Note is

sent covering the period up to the delimiting date, the claimant will be fully informed of this and also informed of the requirements that must be met in order to qualify for a loan after the delimiting date.

(c) If eligibility is determined, FL 22-891 must be modified prior to release to include a caution that the Promissory Note may not be submitted to the VA for payment unless the veteran, spouse or surviving spouse is attending school on a full-time basis on the date the note is signed. If he/she has completed the term at the time the note is signed, he/she must have completed the term on a full-time basis.

(d) Reporting instructions for loans made after the claimant's delimiting date will be issued at a later date. Pending receipt of these reporting instructions, all loans made after the claimant's delimiting date will be identified with a "D" suffix in the education loan number.

(e) The Authorization activity must maintain a record of remaining entitlement used to establish loan eligibility. The example shown below demonstrates the type of accounting required. Such an accounting should be made on sturdy white 8"x10 1/2" paper (e.g., bond) and backfilled on the left flap of the claims or DEA file. As shown in the example, the entitlement remaining at the delimiting date is reduced after each loan is made, by an amount equal to the number of months of entitlement that would have been used had the veteran, spouse or surviving spouse been in receipt of full-time educational assistance allowance for the period to which the loan applies. This accounting must be updated after each loan is made beyond a veteran's, spouse's or surviving spouse's delimiting date.

EXAMPLE LOAN AFTER DELIMITING DATE

Delimiting date.....	June 10, 1977.
Program	BA.
In full-time attendance through.....	May 20, 1977.
Entitlement remaining to establish loan eligibility.	24 mo.
End of 2-yr period (or earlier ending date).	Nov. 23, 1979.
Loan after delimiting date approved for the period.	Feb. 1, 1978 to June 1, 1978.
Entitlement remaining to establish additional loan eligibility.	20 mo.
Additional loan after delimiting date approved for the period.	Sept. 1, 1978 to May 1, 1979.
Entitlement remaining to establish additional loan eligibility.	12 mo.

DOROTHY L. STARBUCK,
Chief Benefits Director.

PROPOSED RULES

Exhibit A

FILE NO.	PAYEE	NAME OF PAYEE	RD NO.	FACILITY CODE
I hereby certify that I received a VA education loan check in the amount indicated and on the date signed. I further certify that I continue to meet the enrollment conditions as outlined in the promissory note.			LOAN NO.	AMOUNT OF CHECK \$
			SIGNATURE OF STUDENT	
NAME AND ADDRESS OF VA OFFICE		NAME AND ADDRESS OF SCHOOL		
I hereby certify that a VA education loan check in the amount indicated was delivered to the student named above on the date I have signed.			SIGNATURE AND TITLE OF CERTIFYING OFFICIAL	
			DATE SIGNED	

VETERANS ADMINISTRATION
CERTIFICATION OF DELIVERY OF EDUCATION LOAN PAYMENT
(Chapters 30, 34, and 35, Title 38, U.S.C.)

IMPORTANT INSTRUCTIONS - Read these instructions carefully. After completion of this form and delivery of the enclosed loan payment check to the student, return the original (VA COPY) to the VA office shown on the reverse. If the student is no longer in attendance at your institution you must return the loan payment and this form to the Department of the Treasury as shown on the envelope. **DO NOT FOLD, STAPLE OR TEAR THIS CARD.** If damaged or destroyed, notify the VA immediately.

COMPLETION OF REVERSE BY SCHOOL OFFICIALS

- Verify that the file number, name of student and amount of check printed on the check is the same as printed on this form.
- Have student sign and date the appropriate blocks on both copies and release the check to him or her.
- Sign and date both copies of the form in the appropriate blocks.
- Retain the school copy for your files and forward the VA copy to the VA office indicated.

[FR Doc. 78-3451 Filed 2-8-78; 8:45 am]

FEDERAL REGISTER, VOL. 43; NO. 28—THURSDAY, FEBRUARY 9, 1978

SAM AR000997

SAM AR000998-SAM AR001000

State	County	Location	Map No.	State map repository	Local map repository	Effective date of authorization of sale of flood insurance for area
Pennsylvania	Lebanon	Jonestown, Borough of	H 42 075 4020 01	do	Lebanon Municipal Bldg., 409 South Eighth St., Lebanon, PA 17038.	Mar. 30, 1973
Do.	Luzerne	Forty Fort, Borough of	H 42 079 2900 01	do	Forty Fort Municipal Bldg., Corner Wyoming Ave. and River St., Forty Fort, Pa. 18704.	Do.
Do.	do	Plymouth, Borough of	H 42 079 0600 01	do	Plymouth Borough Bldg., 162 West Shawnee Ave., Plymouth, PA 18651.	Do.
Do.	do	Shickshinny, Borough of	H 42 079 7630 01	do	Borough of Shickshinny, 5 McClintock St., Shickshinny, PA 18655.	Do.

(National Flood Insurance Act of 1968 (title XIII of the Housing and Urban Development Act of 1968), effective Jan. 28, 1969 (33 FR 17804, Nov. 28, 1968), as amended (secs. 408-410, Public Law 91-152, Dec. 24, 1969), 42 U.S.C. 4001-4127; and Secretary's delegation of authority to Federal Insurance Administrator, 34 FR 2680, Feb. 27, 1969)

Issued: March 16, 1973.

GEORGE K. BERNSTEIN,
Federal Insurance Administrator.

[FR Doc.73-5508 Filed 3-22-73;8:46 am]

Title 36—Parks, Forests, and Memorials

CHAPTER III—CORPS ENGINEERS, DEPARTMENT OF THE ARMY

PART 311—PUBLIC USE OF CERTAIN LAKES AND RESERVOIR AREAS

PART 326—PUBLIC USE OF CERTAIN NAVIGABLE LAKES AND RESERVOIR AREAS

PART 327—RULES AND REGULATIONS GOVERNING PUBLIC USE OF WATER RESOURCE DEVELOPMENT PROJECTS ADMINISTERED BY THE CHIEF OF ENGINEERS

Rules and Regulations Governing Public Use of Water Resource Development Projects Administered by the Chief of Engineers set forth in Part 327 below supersede Parts 311 and 326. Increased public use at these projects, changing patterns of recreation activity, and increased public interest made it necessary to amend the rules and regulations as set forth below in the interest of more effective recreation-resource management of the lake and reservoir projects.

Sec.

- 327.0 Applicability.
- 327.1 Policy.
- 327.2 Motor vehicles.
- 327.3 Vessels.
- 327.4 Aircraft.
- 327.5 Swimming.
- 327.6 Picnicking.
- 327.7 Camping.
- 327.8 Hunting, fishing and trapping.
- 327.9 Sanitation.
- 327.10 Fires.
- 327.11 Control of horses, dogs, cats, and pets.
- 327.12 Restrictions.
- 327.13 Explosives, firearms, other weapons, and fireworks.
- 327.14 Public property.
- 327.15 Abandonment of personal property.
- 327.16 Lost and found articles.
- 327.17 Advertisement.
- 327.18 Commercial activities.
- 327.19 Permits.
- 327.20 Unauthorized structures.
- 327.21 Special events.
- 327.22 Unauthorized occupation of lands.
- 327.23 Outgranted lands.
- 327.24 Indian lands.
- 327.25 Special recreation use fees. [Reserved]
- 327.26 Interference with Government employees.
- 327.27 Violation of rules and regulations.

AUTHORITY: Sec. 4, Act of December 22, 1944, 54 Stat. 899, as amended, 16 U.S.C. 460d; Public Law 90-483, 82 Stat. 748; and Public Law 92-347, 86 Stat. 459.

§ 327.0 Applicability.

The regulations covered in this Part 327 shall be applicable to all water resource development projects administered by the Chief of Engineers. All other Federal, State, and local laws and regulations remain in full force and effect where applicable to those water resource development projects. These regulations do not apply to those water resource development projects regulated jointly with other Federal agencies to which Parts 313 and 322, Chapter III, Title 36, Code of Federal Regulations apply.

§ 327.1 Policy.

(a) It is the policy of the Secretary of the Army acting through the Chief of Engineers to provide the public with safe and healthful recreational opportunities within all water resource development projects administered by the Chief of Engineers.

(b) Unless otherwise indicated herein, the term "District Engineer" shall include the authorized representatives of the District Engineer.

(c) All water resource development projects open for recreational use shall be available to the public without regard to sex, race, creed, color, or national origin. No lessee, licensee, or concessionaire providing a service to the public shall discriminate against any person or persons because of sex, race, creed, color, or national origin in the conduct of his operations under the lease, license, or concession contract.

§ 327.2 Motor vehicles.

(a) The operation and parking of motor vehicles, including off-road vehicles as set forth in paragraph (b) of this section, is prohibited on roadways of water resource development projects at those locations and at times designated by the District Engineer and marked by the posting of appropriate signs.

(b) The operation of off-road vehicles including but not limited to motorcycles, minibikes, trail bikes, snowmobiles, dune

buggies, all terrain vehicles, and other motor vehicles designed for or capable of cross-country travel on natural terrain, when operated off the roadways of water resource development projects is prohibited except at locations and at times designated by the District Engineers and marked by the posting of appropriate signs.

(c) No person shall operate any motor vehicle including off-road vehicles in a careless, negligent, or reckless manner so as to endanger any person or property.

§ 327.3 Vessels.

(a) It shall be a violation of these regulations to operate any vessel for a fee or profit upon the waters of water resource development projects unless such operation is authorized by lease, license or concession contract with the Department of the Army. This paragraph shall not apply to the operation of vessels upon navigable waters of the United States.

(b) No vessel shall be operated in prohibited areas of a lake, reservoir, or other body of water. Such areas shall be designated by the District Engineer and marked by the posting of appropriate signs.

(c) No person shall operate any vessel or manipulate any water skis or other similar device in a careless, negligent, or reckless manner so as to endanger any person or property.

(d) The construction of floating or stationary mooring facilities or any other structure of any kind in the lake, reservoir, or other body of water is prohibited unless a permit therefor has been issued by the District Engineer. No habitation of such facilities will be permitted.

(e) All vessels when not in actual use shall be removed from the lake, reservoir, or other body of water unless securely moored at mooring facilities permitted by the District Engineer.

§ 327.4 Aircraft.

(a) The operation of aircraft on lands or waters other than at the landing areas designated by the District Engineer is prohibited. Such designated areas shall be marked by the posting of appropriate signs.

(b) Except in extreme emergencies involving the safety of human life or threat of serious property loss, the air delivery of any person or thing by parachute, helicopter, or other means without written permission of the District Engineer is prohibited.

(c) The provisions of this section shall not be applicable to aircraft engaged on official business of the Federal Government or used in emergency rescue in accordance with the directions of the District Engineer or forced to land due to circumstances beyond the control of the operator.

§ 327.5 Swimming.

Swimming, snorkeling, or scuba diving is permitted, except in those areas of the lake, reservoir, or other body of water designated by the District Engineer and marked by the posting of appropriate signs.

§ 327.6 Picnicking.

Picnicking is permitted, except in those areas designated by the District Engineer and marked by the posting of appropriate signs.

§ 327.7 Camping.

(a) Camping is prohibited except in areas designated by the District Engineer. Such designated areas shall be marked by the posting of appropriate signs.

(b) Camping at a fee site without payment of designated fees as set forth in § 327.25 is prohibited.

(c) The length of stay at all campgrounds shall be limited to 14 consecutive days. Occupancy of any campsite for a period greater than 14 consecutive days is prohibited without written permission of the District Engineer.

(d) Camping equipment or other property left unattended at a campsite for the purpose of holding the site for future occupancy is prohibited.

(e) The digging or leveling of any ground or the construction of any facility without written permission of the District Engineer is prohibited.

(f) Camping equipment shall be completely removed and the sites cleaned before the departure of the campers.

§ 327.8 Hunting, fishing, and trapping.

(a) Hunting, fishing, and trapping are prohibited in areas designated by the District Engineer. Such restricted areas shall be marked by the posting of appropriate signs.

§ 327.9 Sanitation.

(a) Dumping or disposal in any manner of refuse, garbage, rubbish, trash, debris, or litter of any kind into the waters of or onto any land federally owned and administered by the Chief of Engineers is prohibited except at locations and in receptacles provided for such purposes.

(b) It shall be a violation to bring onto any water resource development project any refuse, garbage, rubbish, trash, debris, or litter of any kind for dumping or in any other manner dis-

posing of such refuse, garbage, rubbish, trash, debris, or litter of any kind into the waters of or onto any land federally owned and administered by the Chief of Engineers.

§ 327.10 Fires.

(a) Gasoline and other fuels, except that which is contained in storage tanks of vehicles, vessels, camping equipment, or hand portable containers shall not be stored within the water resource development project areas without written permission of the District Engineer.

(b) Fires shall be confined to fireplaces, grills, or other facilities designed for this purpose and shall in addition be confined to those areas designated by the District Engineer.

(c) The gathering of wood for use as fuel at campsites or picnic areas is prohibited except for the gathering of dead material on the ground.

§ 327.11 Control of horses, dogs, cats, and pets.

(a) No person shall bring or have horses in camping, picnic, swimming, beach, or other similar areas, or developed recreation areas.

(b) No person shall bring dogs, cats, or other pets into developed recreation areas unless penned, caged, on a leash no longer than 6 feet in length, or otherwise under physical restrictive controls at all times.

§ 327.12 Restrictions.

(a) The District Engineer may establish a reasonable schedule of visiting hours for all or portions of a project area and close or restrict the public use of all or any portion of a project by the posting of appropriate signs indicating the extent and scope of closure. All persons shall observe such posted restrictions.

(b) Quiet shall be maintained in all public use areas between the hours of 10 p.m. and 6 a.m. Excessive noise during such times which unreasonably disturbs persons is prohibited.

(c) The operation or use of any audio or other noise producing device including but not limited to communications media and motorized equipment or vehicles in such a manner as to unreasonably annoy or endanger persons is prohibited.

§ 327.13 Explosives, firearms, other weapons, and fireworks.

(a) The possession of loaded firearms, ammunition, projectile firing devices, bows and arrows, cross bows, and explosives of any kind is prohibited unless:

(1) In the possession of a law enforcement officer or Government employee on official duty; (2) used for hunting or fishing during the hunting or fishing season as permitted under § 327.8, or (3) unless written permission has been received from the District Engineer.

(b) The possession or use of fireworks is prohibited unless written permission has been received from the District Engineer.

§ 327.14 Public property.

Destruction, injury, defacement, or removal of public property including natural formations, historical and archaeological features, and vegetative growth is prohibited without written permission of the District Engineer.

§ 327.15 Abandonment of personal property.

(a) Abandonment of personal property is prohibited. Personal property shall not be left unattended upon the lands or waters of the project except in accordance with these regulations. After a period of 24 hours, abandoned or unattended personal property shall be impounded and stored at a storage point designated by the District Engineer. The District Engineer shall assess a reasonable impoundment fee, which shall be paid before the impounded property is returned to its owners.

(b) The District Engineer shall by public or private sale or otherwise, dispose of all lost, abandoned, or unclaimed personal property that comes into his custody or control. However, property may not be disposed of until diligent effort has been made to find the owner, his heirs or next of kin, or his legal representative. If the owner, his heirs or next of kin, or his legal representative is determined but not found, the property may not be disposed of until the expiration of 120 days after the date when notice, giving the time and place of the intended sale or other disposition, has been sent by certified or registered mail to that person at his last known address. When diligent effort to determine the owner, his heirs or next of kin, or his legal representatives is unsuccessful, the property may be disposed of without delay, except that if it has a fair market value of \$25 or more the property may not be disposed of until 3 months after the date it is received at the storage point designated by the District Engineer. The net proceeds from the sale of property shall be covered into the Treasury of the United States as miscellaneous receipts.

§ 327.16 Lost and found articles.

All lost articles shall be deposited by the finder at the Resource Manager's Office or with a ranger. The finder shall leave his name, address and phone number. All lost articles shall be disposed of in accordance with the procedures set forth in § 327.17.

§ 327.17 Advertisement.

Advertising by the use of billboards, signs, markers, audio devices, or any other means whatever is prohibited unless written permission has been received from the District Engineer.

§ 327.18 Commercial activities.

The engaging in or solicitation of business without the express written agreement of the District Engineer is prohibited.

§ 327.19 Permits.

(a) It shall be a violation of these regulations to refuse to comply with the

terms or conditions of any permit issued under the provisions of this regulation by the District Engineer.

(b) (1) Permits for floating structures of any kind in waters of water resources development projects whether or not such waters are deemed navigable waters of the United States but where such waters are under the management of a Corps of Engineers lake Resources Manager shall be issued under the authority of this regulation. District Engineers will delineate those portions of the navigable waters of the United States where this provision is applicable and post notices of this designation, in the vicinity of the lake Resource Managers Office.

(2) Permits for nonfloating structures of any kind constructed, placed in, or affecting waters of water resource development projects where such waters are deemed navigable waters of the United States shall be issued under the provisions of section 10 of the Act approved March 3, 1899, and § 209.120 of Title 33, Code of Federal Regulations.

(3) Permits for nonfloating structures of any kind in waters of water resources development projects where such waters are under the management of a Corps of Engineers lake Resources Manager and where such waters are not deemed navigable waters of the United States shall be issued as set forth in subparagraph (1) of this paragraph.

§ 327.20 Unauthorized structures.

The construction or placing of any structure of any kind under, upon, or over the project lands or waters is prohibited unless a permit therefor has been issued by the District Engineer. Structures not under permit are subject to summary removal by the District Engineer.

§ 327.21 Special events.

Special events such as water carnivals, boat regattas, music festivals, dramatic presentations, or other special recreation programs are prohibited unless a permit therefor has been issued by the District Engineer. The public shall not be charged any fee by the sponsor of such event unless the District Engineer has approved in writing the proposed schedule of fees.

§ 327.22 Unauthorized occupation of lands.

(a) Occupying any lands, buildings, or other facilities within water resource development projects for the purpose of maintaining same as a residence without the written authorization of the District Engineer is prohibited. The provisions of this section shall not apply to the occupation of lands for the purpose of camping in accordance with the provisions of § 327.7.

(b) The ranging, grazing, or watering of livestock on lands of water resource development projects administered by the Corps of Engineers is prohibited except when authorized by lease, license, or other agreement with the District Engineer.

(c) Unless otherwise authorized by law, use of project lands or waters for agricultural purposes is prohibited except when authorized by lease, license, or other agreement by the District Engineer.

§ 327.23 Outgranted lands.

Applicable laws and regulations of State and local governments shall be deemed to apply on project lands or waters which are outgranted by the District Engineer by lease, license, or other written agreement to State and local governments; *Provided, however,* That the regulations in this Part 327 are deemed to apply to such outgranted project lands and waters as a minimum regulatory requirement.

§ 327.24 Indian lands.

The regulations in this Part 327 shall be deemed to apply to those lands and waters which are subject to treaties and Federal laws and regulations concerning the rights of Indian Nations and which lands and waters are incorporated, in whole or in part, within water resource development projects administered by the Chief of Engineers to the extent that the regulations in this Part 327 are not inconsistent with such treaties and Federal laws and regulations.

§ 327.25 Special recreation use fees. [Reserved]

§ 327.26 Interference with Government employees.

Interference with any Government employee in the conduct of his official duties pertaining to the administration of these regulations is prohibited.

§ 327.27 Violation of rules and regulations.

Except for violations coming within the scope of § 327.25 in accordance with section 234 of the River and Harbor Act of 1970 (84 Stat. 1818, 16 U.S.C. 460d, as amended), violations of the provisions of this regulation shall subject the violator to a fine of not more than \$500 or imprisonment for not more than 6 months, or both. Any person charged with such violation may be tried and sentenced in accordance with the provisions of section 3401 of title 18, United States Code. All persons designated by the Chief of Engineers for that purpose shall have the authority to issue a citation for violation of these regulations, requiring the appearance of any person charged with violation to appear before the U.S. magistrate within whose jurisdiction the water resource development project is located for trial.

(Sec. 4, 58 Stat. 889, as amended; 16 U.S.C. 460d)

ROBERT F. FROEHLKE,
Secretary of the Army.

MARCH 16, 1973.

[FR Doc. 73-5608 Filed 3-22-73; 8:45 am]

Title 40—Protection of Environment

CHAPTER I—ENVIRONMENTAL PROTECTION AGENCY

SUBCHAPTER C—AIR PROGRAMS

PART 52—APPROVAL AND PROMULGATION OF IMPLEMENTATION PLANS

Sulfur Dioxide Emissions in Arizona, New Mexico, and Utah

On May 31, 1972 (37 FR 10842), pursuant to section 110 of the Clean Air Act and 40 CFR Part 51, the Administrator approved, with specific exceptions, plans for implementation of the national ambient air quality standards submitted by Arizona, New Mexico, and Utah. On July 27, 1972 (37 FR 15094), the Administrator proposed regulations to correct deficiencies in the regulatory provisions of the plans for these States. This publication sets forth final regulations limiting sulfur dioxide emissions and providing for compliance with such limitations with respect to four large electric powerplants in the three States. Particulate emission limitations also are being promulgated for the powerplant in Utah. Other deficiencies remaining in the plans for these three States will be corrected by regulations to be promulgated in the near future.

Three of the affected powerplants are not yet operating, but are presently under construction and, therefore, are not subject to the new source review procedures required by 40 CFR 51.18. Naturally, there are no measured air quality data which reflect the impact of the sources under construction. Limited air quality data are available around the powerplant presently in operation, but sampling sites have not been located in areas which diffusion calculations indicate will receive the maximum impact of the powerplant emissions.

In the absence of adequate measured air quality data, diffusion models were used to make estimates of the impact of the powerplant emissions on air quality. It is recognized that available diffusion models, when used to make such estimates for rugged terrain situations such as exist around these four plants, may be subject to error in their ability to predict ground level concentrations. There is a substantial difference in the predictions obtained from different models. It is the Administrator's judgment, however, that the diffusion model employed by the National Oceanic and Atmospheric Administration (NOAA) for purposes of the Southwest Energy Study is based on reasonable assumptions regarding meteorological and topographical factors and on valid computational techniques. Therefore, while predictions obtained from unvalidated models are not regarded as a sufficient basis for determining the exact degree of emissions control necessary for attainment and maintenance of national ambient air quality standards in an area of rough terrain, it is the Administrator's judgment that the NOAA model has sufficiently sound technical basis to justify the conclusion that its predictions are

SAM AR001001-SAM AR001003

PROPOSED RULE MAKING

(2) Y's profit under combined taxable income method (before application of loss limitation):	
(a) 50 percent of combined taxable income.....	\$1,175
(b) Y's profit.....	1,175
(3) Y's profit under gross receipts method (before application of loss limitation):	
(a) 4 percent of Y's sublease rental receipts for year (4% of \$3,600).....	144
(b) Y's profit.....	144
(4) Y's profit under section 482 method:	
(a) Y's sublease rental receipts for year.....	3,600
(b) Less: Y's lease rental payments for year.....	3,000
(c) Y's profit.....	600

[FR Doc.72-16139 Filed 9-20-72;8:52 am]

DEPARTMENT OF THE ARMY

Corps of Engineers

[36 CFR Parts 311, 326, 327]

PUBLIC USE OF WATER RESOURCE DEVELOPMENT PROJECTS ADMINISTERED BY CHIEF OF ENGINEERS

Notice of Proposed Rule Making

AUGUST 28, 1972.

Notice is hereby given that the regulations set forth in tentative form below superseding Parts 311 and 326 is proposed by the Secretary of the Army (acting through the Chief of Engineers). The proposed regulation is in the interest of more effective recreation-resource management of the lake and reservoir projects.

Prior to adoption of the proposed regulation, consideration will be given to any comment, suggestion or objections thereto which are submitted in writing to: HQDA (DAEN-CWO-R), Washington, D.C. 20314, within a period of 45 days from the date of publication of this notice in the FEDERAL REGISTER.

For the Chief of Engineers.

J. W. MORRIS,
Major General, U.S. Army,
Director of Civil Works.

PART 327—RULES AND REGULATIONS GOVERNING PUBLIC USE OF WATER RESOURCE DEVELOPMENT PROJECTS ADMINISTERED BY THE CHIEF OF ENGINEERS

Sec.	
327.1	Policy.
327.2	Motor vehicles.
327.3	Vessels.
327.4	Aircraft.
327.5	Swimming.
327.6	Picnicking.
327.7	Camping.
327.8	Hunting, fishing, and trapping.
327.9	Sanitation.
327.10	Fires.
327.11	Control of horses, dogs, cats, and pets.
327.12	Restrictions.
327.13	Explosives, firearms, other weapons and fireworks.
327.14	Public property.
327.15	Abandonment of personal property.

Sec.	
327.16	Lost and found articles.
327.17	Advertisement.
327.18	Permits.
327.19	Unauthorized structures.
327.20	Special events.
327.21	Unauthorized occupation of lands.
327.22	Interference with Government employees.
327.23	Violation of rules and regulations.

AUTHORITY: The provisions of this Part 327 issued under the authority of section 4 of the Act of December 22, 1944, 54 Stat. 899, as amended; 16 U.S.C. 460d.

APPLICABILITY: The regulations covered in this part shall be applicable to all water resource development projects administered by the Chief of Engineers.

§ 327.1 Policy.

(a) It is the policy of the Secretary of the Army acting through the Chief of Engineers to provide the public with safe and healthful recreational opportunities within the geographic boundaries of all water resource development projects administered by the Chief of Engineers.

(b) Recreational use by the public at all Corps of Engineers water resource development projects shall be subject to the regulations prescribed in this part.

(c) Unless otherwise indicated in this part, the term "District Engineer" shall include the authorized representatives of the District Engineer.

(d) All water resource development projects open for recreational use shall be available to the public without regard to sex, race, creed, color, or national origin. No lessee, licensee, or concessionaire providing a service to the public shall discriminate against any person or persons because of sex, race, creed, color, or national origin in the conduct of his operations under the lease, license, or concession contract.

§ 327.2 Motor vehicles.

(a) The operation of motor vehicles including off-road vehicles as set forth in paragraph (b) of this section, is prohibited on roadways of water resource development projects at locations and at times designated by the District Engineer. Such designated areas shall be marked by the posting of appropriate signs. Vehicle operation shall be subject to applicable Federal, State, and local laws and regulations.

(b) The operation of off-road vehicles including but not limited to motorcycles,

minibikes, trail bikes, snowmobiles, dune buggies, all terrain vehicles, and other motor vehicles designed for or capable of cross-country travel on natural terrain, when operated off the roadways of water resource development projects is prohibited except at locations and at times designated by the District Engineers. Such designated areas shall be marked by the posting of appropriate signs. Vehicle operation shall be subject to applicable, Federal, State, and local laws and regulations.

(c) No person shall operate any motor vehicle including off-road vehicles in a careless, negligent or reckless manner so as to endanger any person or property.

§ 327.3 Vessels.

(a) It shall be a violation of the regulations in this section to operate any vessel for a fee or profit upon the waters of resource development projects unless such operation is authorized by lease, license or concession contract with the Department of the Army. This paragraph shall not apply to the operation of vessels upon navigable waters of the United States.

(b) No vessel shall be operated in prohibited areas of a lake, reservoir, or other body of water. Such areas shall be designated by the District Engineer and marked by the posting of appropriate signs.

(c) No person shall operate any vessel or manipulate any water skis or other similar device in a careless, negligent, or reckless manner so as to endanger any person or property.

(d) The construction of floating or stationary mooring facilities or any other structure of any kind in the lake, reservoir, or other body of water is prohibited unless a permit therefor has been issued by the District Engineer. No habitation of such facilities will be permitted.

(e) All vessels when not in actual use shall be removed from the lake, reservoir, or other body of water unless securely moored at mooring facilities designated by the District Engineer marked by the posting of appropriate signs.

§ 327.4 Aircraft.

(a) The operation of aircraft shall be in accordance with all applicable Federal, State, and local laws and regulations.

(b) The operation of aircraft on lands or waters other than at the landing areas designated by the District Engineer is prohibited. Such designated areas shall be marked by the posting of appropriate signs.

(c) Except in extreme emergencies involving the safety of human life or threat of serious property loss, the air delivery of any person or thing by parachute, helicopter, or other means without a permit from the District Engineer is prohibited.

(d) The provisions of this section shall not be applicable to aircraft engaged on official business of the Federal Government or used in emergency rescue in accordance with the directions of the District Engineer or forced to land due to

circumstances beyond the control of the operator.

§ 327.5 Swimming.

Swimming, snorkling or scuba diving is prohibited in areas of the lake, reservoir or other body of water designated by the District Engineer and marked by the posting of appropriate signs.

§ 327.6 Picnicking.

Picnicking is prohibited in areas designated by the District Engineer. Such designated areas shall be marked by the posting of appropriate signs.

§ 327.7 Camping.

(a) Camping is prohibited in areas designated by the District Engineer. Such designated areas shall be marked by the posting of appropriate signs.

(b) Camping at a designated fee site without a permit from the District Engineer is prohibited.

(c) The length of stay at all campsites shall be limited to 14 consecutive days. Occupancy of any campsite for a period greater than 14 consecutive days is prohibited unless a permit therefor has been obtained from the District Engineer.

(d) Camping equipment left unattended at a campsite for the purpose of holding the site for future occupancy is prohibited.

(e) The digging or leveling of any ground or the construction of any facility without a permit from the District Engineer is prohibited.

(f) Camping equipment shall be completely removed and the sites cleaned before the departure of the campers.

§ 327.8 Hunting, fishing, and trapping.

(a) Hunting, fishing, and trapping is prohibited in areas designated by the District Engineer. Such designated areas shall be marked by the posting of appropriate signs. Hunting, fishing, and trapping shall be subject to all applicable Federal, State, and local laws and regulations.

(b) The construction of a duck blind is prohibited unless a permit therefor has been issued by the District Engineer.

§ 327.9 Sanitation.

Dumping or disposal in any manner of refuse, garbage, rubbish, trash, debris, or litter of any kind into the waters of or onto any land federally owned and administered by the Chief of Engineers is prohibited except at locations and in receptacles provided for such purposes.

§ 327.10 Fires.

(a) Gasoline and other fuels, except that which is contained in storage tanks of vehicles, vessels, camping equipment, or hand portable containers shall not be stored within the water resource development project area unless a permit therefor has been issued by the District Engineer.

(b) Open fires are prohibited except at campsites, picnic areas and other areas designated by the District Engineer. Such areas shall be marked by the posting of appropriate signs.

(c) The gathering of wood for use as fuel at campsites or picnic areas is prohibited except for the gathering of dead material on the ground.

§ 327.11 Control of horses, dogs, cats, and pets.

(a) Horses are prohibited in camping, picnic, swimming beach areas. Horses are prohibited in other areas as designated by the District Engineer and marked by the posting of appropriate signs.

(b) Dogs, cats, and other pets are prohibited in areas as may be designated by the District Engineer. Such designated areas shall be marked by the posting of appropriate signs. In developed recreation areas where dogs, cats, and other pets are permitted such animals shall be caged, penned, on a leash no longer than 6 feet in length or otherwise under physical restrictive control at all times.

§ 327.12 Restrictions.

(a) The District Engineer may establish a reasonable schedule of visiting hours for all or portions of a project area and close or restrict the public use of all or any portion of a project by the posting of appropriate signs indicating the extent and scope of closure. All persons shall observe such posted restrictions.

(b) Quiet shall be maintained in all public use areas between the hours of 10 p.m. and 6 a.m. Excessive noise during such times which unreasonably disturbs or endangers persons is prohibited.

(c) The operation or use of any audio or other noise producing device including but not limited to communications media and motorized equipment or vehicles in such a manner as to unreasonably annoy or endanger persons is prohibited.

§ 327.13 Explosives, firearms, other weapons and fireworks.

(a) The possession of firearms, ammunition, and projectile firing devices, bows and arrows, crossbows, and explosives of any kind is prohibited unless: (1) In the possession of a law enforcement officer or Government employee on official duty; (2) used for hunting during the hunting season as permitted under § 327.8; or (3) a permit therefor has been issued by the District Engineer.

(b) The possession and use of fireworks is prohibited unless a permit therefor has been issued by the District Engineer.

§ 327.14 Public property.

Destruction, injury, defacement, or removal of public property including natural formations, historical and archeological features, and vegetative growth is prohibited without written permission of the District Engineer.

§ 327.15 Abandonment of personal property.

(a) Abandonment of personal property is prohibited. Personal property shall not be left unattended upon the lands or waters of the project except in

accordance with this part. After a period of 24 hours, abandoned or unattended personal property shall be impounded and stored at a storage point designated by the District Engineer. The District Engineer shall assess a reasonable impoundment fee, which shall be paid before the impounded property is returned to its owners.

(b) The District Engineer shall by public or private sale or otherwise, dispose of all lost, abandoned, or unclaimed personal property that comes into his custody or control. However, property may not be disposed of until diligent effort has been made to find the owner, his heirs or next of kin, or his legal representative. If the owner, his heirs or next of kin, or his legal representative is determined but not found, the property may not be disposed of until the expiration of 120 days after the date when notice, giving the time and place of the intended sale or other disposition, has been sent by certified or registered mail to that person at his last known address. When diligent effort to determine the owner, his heirs or next of kin, or his legal representatives is unsuccessful, the property may be disposed of without delay, except that if it has a fair market value of \$25 or more the property may not be disposed of until 3 months after the date it is received at the storage point designated by the District Engineer. The net proceeds from the sale of property shall be covered into the Treasury of the United States as miscellaneous receipts.

§ 327.16 Lost and found articles.

All lost articles shall be deposited by the finder at the Resource Manager's Office or with a Ranger. The finder shall leave his name, address, and phone number. If not reclaimed by the owners within a period of 120 days, lost articles shall be given over to the finders.

§ 327.17 Advertisement.

The advertising of any event or the solicitation of business by the use of billboards, signs, markers, audio devices, or any other means whatever is prohibited unless a permit therefor has been issued by the District Engineer.

§ 327.18 Permits.

It shall be a violation of the regulations in this part to refuse to comply with the terms or conditions of any permit, lease, license, or concession contract issued or entered into under the provisions of this part by the District Engineer. Permits for any structures of the floating type in lakes or reservoirs operated by the Corps of Engineers for recreation purposes shall be issued under these provisions. Permits for any structures of the nonfloating type or any other structures constructed or placed in waters of water resource development projects deemed navigable shall be issued under the provisions of section 10 of Rivers and Harbors Act of 1899 and § 209.120 of Title 33 Code of Federal Regulations. Any permits issued under the authority of this part shall be processed in accordance with and in a

19634

PROPOSED RULE MAKING

manner provided by ER 1130-2-333, copies of which are available for review by the public at district and division offices.

§ 327.19 Unauthorized structures.

The construction of any structure of any kind under, upon, or over the land or waters is prohibited unless a permit therefor has been issued by the District Engineer.

§ 327.20 Special events.

Special events such as water carnivals, boat regattas, music festivals, dramatic presentations, or other special recreational programs are prohibited unless a permit therefor has been issued by the District Engineer. The public shall not be charged any fee by the sponsor of such event unless the District Engineer has approved in writing the proposed schedule of fees.

§ 327.21 Unauthorized occupation of lands.

Occupying any lands within water resource development projects for the purpose of living thereon and/or maintaining same as a residence without the written permission of the District Engineer is prohibited. The provisions of this section shall not apply to the occupation of lands for the purpose of camping in accordance with the provisions of § 327.7.

§ 327.22 Interference with Government employees.

Interference with any Government employee in the conduct of his official duties pertaining to the administration of the regulations in this part is prohibited.

§ 327.23 Violation of rules and regulations.

Violation of the provisions of this part shall subject the violator to a fine of not more than \$500 or imprisonment for not more than 6 months, or both in accordance with section 234 of the River and Harbor Act of 1970 (84 Stat. 1818, 16 U.S.C. 460d, as amended).

[FR Doc.72-16067 Filed 9-20-72;8:53 am]

DEPARTMENT OF THE INTERIOR

Bureau of Indian Affairs

[25 CFR Part 233]

SAN CARLOS INDIAN IRRIGATION PROJECT, ARIZ.

Service Connections

SEPTEMBER 14, 1972.

This notice is published in exercise of authority delegated by the Secretary of the Interior to the Commissioner of Indian Affairs by 230 DM 2 (32 F.R. 13938).

Notice is hereby given that, pursuant to the authority vested in the Secretary of the Interior by 5 U.S.C., section 301 (1970 ed.), and section 5 of the Act of June 7, 1924 (43 Stat. 475-476), and the Act of March 7, 1928 (45 Stat. 210), it is pro-

posed to amend § 233.10 of Part 233, Subchapter U, Chapter I, of Title 25 of the Code of Federal Regulations. The purpose of this amendment is to eliminate the need for the project to furnish meter socket or meter base to consumers. The items are now standardized and, as a general practice in the electric utility industry, the consumer furnishes a complete meter loop.

It is the policy of the Department of the Interior, whenever practicable, to afford the public an opportunity to participate in the rule making process. Accordingly, interested persons may submit written comments, suggestions, or objections with respect to the proposed amendment to the Bureau of Indian Affairs, Washington, D.C. 20242, within 30 days from date of publication of this notice in the FEDERAL REGISTER.

Section 233.10 of Chapter I, Title 25 of the Code of Federal Regulations, is amended to read as follows:

§ 233.10 Service connections.

On each new service the consumer shall provide and maintain a service entrance at a location convenient to the lines of the project, and all connections from the service entrance to the meter base and from the meter base to the main line circuit breaker or distribution center. The meter will be furnished by the United States. The meter socket will be furnished and installed by the consumer and in a suitable location, preferably on the outside of the building, or service pole, where the meter will be accessible to the meter reader at all times. The meter socket shall not be more than 7 feet nor less than 5 feet above the ground or floor. The entire service installation must be satisfactory to the project engineer and must conform to the provisions then in force of the National Electrical Code of the National Board of Fire Underwriters for Electric Wiring and Apparatus. When alterations of a consumer's premises make it necessary to move an existing meter loop, the consumer may be required to install a meter socket in the new loop, located in conformity with the stipulations of this section. When an inspection is required by municipal ordinance, the project engineer shall require a certificate of inspection and approval by the municipal inspector before connecting a new service.

JOHN O. CROW,
Deputy Commissioner.

[FR Doc.72-16053 Filed 9-20-72;8:46 am]

Bureau of Land Management

[43 CFR Part 2650]

ALASKA NATIVE GRANTS

Notice of Proposed Rule Making

The purpose of this amendment is to provide regulations for the satisfaction of grants of lands and interests in lands made by the Alaska Native Claims Settlement Act of December 18, 1971 (43 U.S.C. 1601-1624).

It is hereby determined that the publication of this proposed rule making is not a major Federal action significantly affecting the quality of the human environment and that no detailed statement pursuant to section 102(2)(C) of the National Environmental Policy Act of 1969 (42 U.S.C. 4332(2)(C)) is required.

In accordance with the Department's policy on public participation in rule making (36 F.R. 8336), interested parties may submit written comments, suggestions, or objections with respect to the proposed rules to the Director (210), Bureau of Land Management, Washington, D.C. 20240 until October 23, 1972.

Copies of comments, suggestions, or objections made pursuant to this notice will be available for public inspection in the Office of Information, Bureau of Land Management, Room 5643, Interior Building, Washington, D.C., during regular business hours (7:45 a.m.-4:15 p.m.).

Chapter II of Title 43 of the Code of Federal Regulations is amended by adding a new Part 2650, as set forth below.

HARRISON LOESCH,
Assistant Secretary of the Interior.

SEPTEMBER 14, 1972.

Group 2600 of Chapter II, Title 43 of the Code of Federal Regulations is amended as follows:

PART 2650—ALASKA NATIVE GRANTS

GROUP 2600—DISPOSITION; GRANTS

Subpart 2650—Alaska Native Grants Generally

Sec.	Purposes.
2650.0-1	Objectives.
2650.0-2	Authority.
2650.0-3	Definitions.
2650.0-5	Cross references.
2650.0-7	Provisions for Interim Administration.
2650.1	Application procedures.
2650.2	Valid existing rights.
2650.3	Patent reservations.
2650.4	Existing rights and contracts.
2650.4-1	Succession of interest.
2650.4-2	Administration of existing less-than-fee rights.
2650.4-3	National forest lands.
2650.4-4	National wildlife refuge lands.
2650.4-5	Public easements.
2650.4-6	Survey requirements.
2650.5	Areas lacking adequate survey.
2650.5-1	Rule of approximation.
2650.5-2	Selection areas—survey requirements.
2650.5-3	Selection limitations.
2650.6	Publication of notice.

Subpart 2650—Alaska Native Grants Generally

§ 2650.0-1 Purpose.

The purpose of the regulations in this part is to provide procedures for the orderly satisfaction of grants of lands and interests in lands made by the Alaska Native Claims Settlement Act of December 18, 1971 (85 Stat. 688).

§ 2650.0-2 Objectives.

The program of the Secretary is to encourage and assist the beneficiaries of

SAM AR001004-SAM AR001008

State	County	Location	Map No.	State map repository	Local map repository	Effective date of identification of areas which have special flood hazards
Oklahoma	Stephens	Comanche	T 40 137 1070 01	Oklahoma Water Resources Board, 2241 Northwest 40th St., Oklahoma City, OK 73112. Oklahoma Insurance Department, Room 408, Will Rogers Memorial Office Bldg., Oklahoma City, OK 73105.	City Hall, City of Comanche, Comanche, Okla. 73529.	Do.
Texas	Comal	Unincorporated areas.	T 48 091 0000 01	Texas Water Development Board, 301 West 2d St., Austin, TX 78711. Texas State Board of Insurance, 1110 San Jacinto St., Austin, TX 78701.	Office of the Road Administrator for Comal County, Room 309, County Courthouse, New Braunfels, TX 78140.	Do.
West Virginia	Logan	West Logan	T 54 045 2770 01	Department of Insurance, State of West Virginia, State Capitol, Charleston, WV 25305. Department of Insurance, State of West Virginia, State Capitol, Charleston, WV 25305.	Office of the Recorder, City Hall, West Logan, WV 25601.	Do.
Wisconsin	Wood	Unincorporated areas.	T 55 141 0000 01	Department of Natural Resources, Post Office Box 460, Madison, WI 53701. Wisconsin Insurance Department, 4802 Sheboygan Ave., Madison, WI 53061.	Office of City-County Planning, Room 319, Wood County Courthouse, Wisconsin Rapids, WI 54494.	Do.

(National Flood Insurance Act of 1968 (title XIII of the Housing and Urban Development Act of 1968), effective Jan. 28, 1969 (33 F.R. 17804, Nov. 28, 1968), as amended (secs. 408-410, Public Law 91-152, Dec. 24, 1969), 42 U.S.C. 4001-4127; and Secretary's delegation of authority to Federal Insurance Administrator, 34 F.R. 2680, Feb. 27, 1969)

Issued: March 5, 1971.

GEORGE K. BERNSTEIN,
Federal Insurance Administrator.

[FR Doc.71-2092 Filed 3-5-71;8:45 am]

Title 36—PARKS, FORESTS, AND MEMORIALS

Chapter III—Corps of Engineers, Department of the Army

PART 311—PUBLIC USE OF CERTAIN LAKE AND RESERVOIR AREAS

Part 311, Chapter III, of Title 36 of the Code of Federal Regulations is revised to read as follows:

- Sec.
- 311.0 Determination of the Secretary.
 - 311.1 Areas covered.
 - 311.2 Boats, commercial.
 - 311.3 Boats and other vessels, private.
 - 311.4 Mooring, care and sanitation of boats and floating facilities.
 - 311.5 Swimming and bathing.
 - 311.6 Hunting and fishing.
 - 311.7 Camping.
 - 311.8 Picnicking.
 - 311.9 Access to water areas.
 - 311.10 Destruction of public property.
 - 311.11 Firearms, explosives, fireworks and other weapons of all kinds.
 - 311.12 Gasoline and oil storage.
 - 311.13 Sanitation.
 - 311.14 Advertisements.
 - 311.15 Unauthorized solicitations and business activities.
 - 311.16 Commercial operations.
 - 311.17 Recreational activity programs.
 - 311.18 Abandonment of personal property.
 - 311.19 Discriminatory practices prohibited.
 - 311.20 Control of horses, dogs, cats and pets.
 - 311.21 Visiting hours.
 - 311.22 Noise levels.
 - 311.23 Vehicles.

AUTHORITY: The provisions of this Part 311 issued under sec. 4, 58 Stat. 889, as amended; 16 U.S.C. 460d.

§ 311.0 Determination of the Secretary.

The Secretary of the Army having determined that the use of certain lake and

reservoir areas by the general public for boating, swimming, bathing, fishing, and other recreational purposes will not be contrary to the public interest and will not be inconsistent with the operation and maintenance of the lake or reservoir for their primary purposes, hereby prescribes the following rules and regulations pursuant to the provision of section 4 of the Act of Congress approved December 22, 1944, as amended (16 U.S.C. 460d.), for the public use of certain lake and reservoir areas. Such public use is also subject to applicable State, local, and other Federal laws and regulations.

§ 311.1 Areas covered.

(a) The regulations contained in this part shall be applicable to:

ARKANSAS

Beaver Lake Area, White River.
Blakely Mountain Dam (Lake Ouachita) Area, Ouachita River.
Blue Mountain Lake Area, Petit Jean River.
Bull Shoals Lake Area, White River.
De Gray Lake Area, Caddo River.
De Queen Lake Area, Rolling Fork River.
Greers Ferry Lake Area, Little Red River.
Millwood Lake Area, Little River.
Narrows Dam (Lake Greeson) Area, Little Missouri River.
Nimrod Lake Area, Fourche La Pave River.
Norfolk Lake Area, North Fork River.
Table Rock Lake Area, White River.

CALIFORNIA

Black Butte Lake Area, Stony Creek.
Coyote Valley Dam (Lake Mendocino) Area, Eastern Fork of Russian River.
Harry L. Englebright Lake Area, Yuba River.
Isabella Lake Area, Kern River.
New Hogan Lake Area, Calaveras River.
North Fork Lake Area, North Fork American River.
Pine Flat Lake Area, Kings River.
Success Lake Area, Tule River.
Terminus Dam (Lake Kaweah) Area, Kaweah River.

COLORADO

Cherry Creek Dam and Reservoir Area, Cherry Creek.
John Martin Lake Area, including Lake Hasty, Arkansas River.

CONNECTICUT

Colebrook River Lake Area, West Branch Farmington River.
Hop Brook Lake Area, Hop Brook.
Hancock Brook Dam Area, Hancock Brook.
Mansfield Hollow Lake Area, Natchaug River.
Northfield Brook Lake Area, Northfield River.
Thomaston Dam Area, Naugatuck River.
West Thompson Lake Area, Quinebaug River.

GEORGIA

Allatoona Lake Area, Etowah River.
Buford Dam (Lake Sidney Lanier) Area, Chattahoochee River.
Clark Hill Lake Area, Savannah River.
Hartwell Lake Area, Savannah River.

IDAHO

Albeni Falls Dam Area, Pend Oreille River.
Lucky Peak Lake Area, Boise River.

ILLINOIS

Carlyle Lake Area, Kaskaskia River.

INDIANA

Huntington Lake Area, Wabash River.
Mansfield Lake Area, Raccoon Creek.
Mississinewa Lake Area, Mississinewa River.
Monroe Lake Area, Salt Creek.
Salamonie Lake Area, Salamonie River.

IOWA

Coralville Lake Area, Iowa River.
Rathbun Lake Area, Chariton River.
Red Rock Dam, Lake Red Rock Area, Des Moines River.

KANSAS

Council Grove Lake Area, Grand (Neosho) River.
Elk City Lake Area, Elk River.
Fall River Lake Area, Fall River.
Hulah Lake Area, Caney River.
John Redmond Dam and Reservoir Area,

RULES AND REGULATIONS

4495

Grand (Neosho) River.
Kanopolis Lake Area, Smoky Hill River.
Melvern Lake Area, Marais des Cygnes River.
Milford Lake Area, Republican River.
Perry Lake Area, Delaware River.
Pomona Lake Area, One Hundred Ten Mile Creek.
Toronto Lake Area, Verdigris River.
Tuttle Creek Lake Area, Big Blue River.
Wilson Lake Area, Saline River.

KENTUCKY

Barren River Lake Area, Barren River.
Buckhorn Lake Area, Middle Fork of Kentucky River.
Dale Hollow Lake Area, Obey River.
Dewey Lake Area, Johns Creek.
Fishtrap Lake Area, Levisa Fork.
Grayson Lake Area, Little Sandy River.
Green River Lake Area, Green River.
Nolin Lake Area, Nolin River.
Rough River Lake Area, Rough River.
Wolf Creek Dam and Lake Cumberland Area, Cumberland River.

MARYLAND

Youghiogheny River Lake Area, Youghiogheny River.

MASSACHUSETTS

Barre Falls Dam Area, Ware River.
Birch Hill Dam Area, Millers River.
Buffumville Lake Area, Little River.
Conant Brook Dam Area, Conant Brook.
East Brimfield Lake Area, Quinebaug River.
Hodges Village Dam Area, French River.
Knightville Dam Area, Westfield River.
Littleville Lake Area, Middle Branch of Westfield River.
Tully Dam Area, East Branch of Tully River.
West Hill Dam Area, West River.
Westville Lake Area, Quinebaug River.

MISSISSIPPI

Arkabutla Lake Area, Coldwater River.
Enid Lake Area, Yocoma River.
Grenada Lake Area, Yalobusha and Skuna Rivers.
Okatibee Lake Area, Okatibee Creek.
Sardis Lake Area, Little Tallahatchie River.

MISSOURI

Bull Shoals Lake Area, White River.
Clearwater Lake Area, Black River.
Harry S. Truman Dam and Reservoir Area, Osage River.
Norfolk Lake Area, North Fork River.
Pomme de Terre Lake Area, Pomme de Terre River.
Stockton Lake Area, Sac River.
Table Rock Lake Area, White River.
Wappapello Lake Area, St. Francis River.

MONTANA

Fort Peck Lake Area, Missouri River.

NEBRASKA

Gavins Point Dam (Lewis and Clark Lake) Area, Missouri River.
Marion County Lake Area, Republican River.

NEW HAMPSHIRE

Blackwater Dam Area, Blackwater River.
Edward MacDowell Dam Area, Nubanusett Brook.
Everett Lake Area, Piscataquog River.
Franklin Falls Dam Area, Pemigewasset River.
Hopkinton Lake Area, Contoocook River.
Otter Brook Lake Area, Otter Brook.
Surry Mountain Lake Area, Ashuelot River.

NEW MEXICO

Abiquiu Dam Area, Rio Chama.
Conchas Lake Area, Canadian River.
Jemez Canyon Dam Area, Jemez River.
Two Rivers Dam Area, Rio Hondo.

NEW YORK

Almond Lake Area, Canacadea Creek.
East Sidney Lake Area, Outlet Creek.
Whitney Point Lake Area, Otsego River.

NORTH CAROLINA

John H. Kerr Dam and Reservoir Area, Roanoke River.
W. Kerr Scott Dam and Reservoir Area, Yadkin River.

NORTH DAKOTA

Baldhill Dam and Lake Ashtabula Area, Sheyenne River.
Bowman—Haley Lake Area, North Fork of Grand River.
Garrison Dam (Lake Sakakawea) Area, Missouri River.
Honne Lake Area, Park River.
Oahe Dam and Lake Oahe Area, Missouri River.

OHIO

Alum Creek Lake Area, Alum Creek.
Berlin Lake Area, Mahoning River.
Deer Creek Lake Area, Deer Creek.
Delaware Lake Area, Olentangy River.
Dillon Lake Area, Licking River.
North Branch of Kokosing Lake Area, Kokosing River.
Paint Creek Lake Area, Paint Creek.
Shenango River Lake Area, Shenango River.

OKLAHOMA

Broken Bow Reservoir Area, Mountain Fork River.
Canton Lake Area, North Canadian River.
Eufaula Lake Area, Canadian River.
Fort Gibson Lake Area, Wolf Creek.
Fort Supply Lake Area, Wolf Creek.
Keystone Lake Area, Arkansas River.
Heyburn Lake Area, Pocolat Creek.
Hulah Lake Area, Caney River.
Denison Dam (Lake Texoma) Area, Red River.
Oologah Lake Area, Verdigris River.
Pine Creek Lake Area, Little River.
Tenkiller Ferry Reservoir and Tenkiller Ferry Lake Area, Illinois River.
Wister Lake Area, Poteau River.

OREGON

Cottage Grove Lake Area, Coast Fork of Willamette River.
Dexter Lake Area, Middle Fork Willamette River.
Dorena Lake Area, Row River.
Fall Creek Lake Area, Fall Creek.
Fern Ridge Dam and Lake Area, Long Tom River.
Foster Lake Area, South Santiam River.
Green Peter Lake Area, Middle Santiam River.
Lookout Point Lake Area, Middle Fork Willamette River.

PENNSYLVANIA

Alvin R. Bush Lake Area, Kettle Creek.
Bear Creek Lake Area, Lehigh River.
Conemaugh River Lake Area, Conemaugh River.
Crooked Creek Lake Area, Crooked Creek.
Curwensville Lake Area, West Branch Susquehanna River.
Foster Joseph Sayers Dam Area, Bald Eagle Creek.
Loyalhanna Lake Area, Loyalhanna Creek.
Mahoning Creek Lake Area, Mahoning Creek.
Prompton Lake Area, Lackawaxen River.
Shenango River Lake Area, Shenango River.
Tionesta Lake Area, Tionesta Creek.
Youghiogheny River Lake Area, Youghiogheny River.

SOUTH CAROLINA

Clark Hill Lake Area, Savannah River.
Hartwell Lake Area, Savannah River.

SOUTH DAKOTA

Big Bend Dam (Lake Sharpe) Area, Missouri River.
Cold Brook Lake Area, Cold Brook.
Fort Randall Dam (Lake Francis Case) Area, Missouri River.
Gavins Point Dam (Lewis and Clark Lake) Area, Missouri River.
Oahe Dam—Lake Oahe Area, Missouri River.

TENNESSEE

Center Hill Lake Area, Caney Fork River.
Dale Holow Lake Area, Obey River.
J. Percy Priest Dam and Reservoir Area, Stones River.

TEXAS

Bardwell Lake Area, Waxahachie Creek.
Belton Lake Area, Leon River.
Benbrook Lake Area, Clear Fork of the Trinity River.
Canyon Lake Area, Gualalupe River.
Denison Dam (Lake Texoma) Area, Red River.
Ferrells Bridge Dam (Lake O' the Pines) Area, Cypress Creek.
Garza—Little Elm Reservoir (Lewisville Dam) Area, Elm Fork, Trinity River.
Grapevine Lake Area, Denton Creek.
Hords Creek Lake Area, Hords Creek.
Lavon Lake Area, East Fork Trinity River.
Navarro Mills Lake Area, Richland Creek.
Pat Mayse Lake Area, Sanders Creek.
Proctor Lake Area, Leon River.
San Angelo Lake Area, North Concho River.
Sommerville Lake Area, Yegua Creek.
Stillhouse Hollow Dam Area, Lampasas River.
Texarkana Lake Area, Sulphur River.
Town Bluff Dam and B. A. Steinhagen Lake Area, Neches River.
Waco Lake Area, Bosque River.
Whitney Lake Area, Brazos River.

VERMONT

Ball Mountain Dam Area, West River.
North Hartland Lake Area, Ottauquesshe River.
North Springfield Lake Area, Black River.
Townshend Lake Area, West River.
Union Village Dam Area, Ompompanoosuc River.

VIRGINIA

Bluestone Lake Area, New River.
John H. Kerr Dam and Reservoir Area, Roanoke River.
John W. Flannagan Dam and Reservoir Area, Pound River.
North Fork of Pound River Lake Area, North Fork of Pound River.
Philpott Lake Area, Smith River.

WASHINGTON

Chief Joseph Dam Area, Columbia River.
Mill Creek Lake Area, Mill Creek.

WEST VIRGINIA

Bluestone Lake Area, New River.
Beech Fork Lake Area, Beech Fork Creek.
Burnsville Lake Area, Little Kanawha River.
East Lynn Lake Area, Twelve Pole Creek.
R. D. Bailey Lake Area, Guyandotte River.
Summersville Lake Area, Gauley River.
Sutton Lake Area, Elk River.

(b) In those portions of the lake or reservoir area which are now or which hereafter are managed by other governmental agencies (including State, county, and municipal) pursuant to leases or licenses granted by the Department of the Army, such agencies may make and enforce such rules and regulations as are necessary, and within their legal authority.

RULES AND REGULATIONS

§ 311.2 Boats, commercial.

(a) No boat, barge or other vessel shall be placed upon or operated upon any water of the lake or reservoir for a fee or profit, either as a direct charge to a second party, or as an incident to other services provided to a second party, except as specifically authorized by lease, license, or concession contract with the Department of the Army, or except for commercial navigation on a lake or reservoir which is navigable by law.

(b) All such watercraft authorized for commercial service, including rental units, shall have the maximum passenger carrying capacity (number of persons authorized by State and local law and/or in the absence thereof by ratings figured on Outboard Boating Club manufacturers rating) plainly posted in a conspicuous place inside the watercraft.

§ 311.3 Boats and other vessels, private.

(a) The operation of boats, houseboats, cabin cruisers and other vessels on the lake or reservoir for fishing and recreational use is permitted except in prohibited areas as contained in regulations in this part and as designated by the District Engineer in charge of the project.

(b) Except for the lakes and reservoirs listed in this paragraph, a permit is required from the District Engineer or his authorized representative for placing and operating a vessel on the lake or reservoir for a period longer than 3 days, unless the boat or other vessel is registered and displays a valid State or U.S. Coast Guard number. No charge will be made for this permit. The permit shall be kept aboard the vessel at all times that the vessel is in operation on the lake or reservoir. The District Engineer in charge of the area or his authorized representative shall have authority to revoke the permit and to require removal of the vessel upon failure of the permittee to comply with the terms and conditions of the permit or with the regulations of this part.

IDAHO

Albeni Falls Dam Area, Pend Oreille River.

WASHINGTON

Chief Joseph Dam Area, Columbia River.

(c) Unsafe boats or other vessels will not be permitted on the lake or reservoir. The District Engineer may require the applicant for a permit to furnish the construction plans and other information pertaining to the construction and equipment of the boat or other vessel prior to issuing a permit for its operation on the lake or reservoir. All boats permitted on the lake or reservoir shall be equipped for safe operation and operated in a safe manner in accordance with instructions issued by the District Engineer. These instructions may provide that the operation of speed boats and water skiing activities shall be confined to areas of water designated by the District Engineer for such activities.

(d) Houseboats, cabin cruisers, and other vessels may be placed and operated on the lakes and reservoirs, except that such a facility shall not be utilized for human habitation at a fixed or perma-

nent mooring point and if equipped with toilets and galley shall not be placed on lakes and reservoirs with small permanent pools, or where prohibited by State and/or local laws and regulations. Such vessels may be barred from other lakes and reservoirs by the District Engineer with the concurrence of the Chief of Engineers in those lakes and reservoirs in which the waters thereof are used for domestic water supply when the District Engineer determines that such use is contrary to the public health and safety.

§ 311.4 Mooring, care and sanitation of boats and floating facilities.

(a) All boats or other vessels when not in actual use must be either removed from the lake or reservoir, securely moored at authorized docks or boat-houses where supervision by the owner or his representative is provided on a 24-hour-day basis or placed in the care of a marina concessionaire, State or local managing agency or other party authorized to care for floating equipment on a 24-hour-day basis.

(b) All boats, barges, and other vessels or floating facilities will be moored only in locations designated by the District Engineer or his designated representative. All floating or stationary mooring facilities will be constructed in accordance with approved plans and specifications and will require a permit, lease or license approved by the District Engineer or his designated representative. He shall have authority to revoke such permits, leases, or licenses and require removal of the facility for failure of the permittee, lessee or licensee to comply with the terms and conditions of the permit, lease, or license or with the regulations in this part.

(c) The discharge of sewage, garbage, or other pollutants in the waters of the lake or reservoir from any boat, barge, or other vessel on the reservoir is prohibited except in accordance with regulations of the Environmental Protection Agency, State and local health agencies permitting such discharge when underway in deep waters other than embayments. All such pollutants shall be deposited ashore at places designated for such deposit and disposal.

§ 311.5 Swimming and bathing.

Swimming and bathing are permitted except in prohibited areas designated by the District Engineer or State and local health authorities.

§ 311.6 Hunting and fishing.

(a) Hunting, fishing, and trapping are permitted in accordance with all applicable Federal, State and local laws for the protection of fish and game except in prohibited areas including the following:

(1) Public access, park and recreation areas in which all hunting is prohibited;

(2) Prohibited areas designated by the District Engineer in which hunting or fishing or both are prohibited;

(3) Prohibited areas designated by Federal or State managing agencies under applicable laws administered by such agencies.

(b) Hunting is restricted to the use of hunting devices authorized under Federal, State, and local laws and regulations.

(c) A permit shall be obtained from the District Engineer or his authorized representative to construct a duck blind on the land and/or water in any lake or reservoir area listed in § 311.1 except for the Wappapello Lake Area, St. Francis River, Mo., on which duck blinds may be permitted or prohibited in accordance with regulations of the Missouri Conservation Commission relative to duck hunting.

§ 311.7 Camping.

(a) Camping is permitted only at areas designated by the District Engineer in charge of the lake or reservoir area or his authorized representative or the managing agency referred to in § 311.1(b).

(b) The length of stay is limited to 14 consecutive days except where the District Engineer or his authorized representative or the managing agency referred to in § 311.1(b) determines a lesser stay is warranted. However, where ample facilities exist to serve the public at the time, the length of stay may be extended to no more than 30 consecutive days by special permission of the District Engineer or his authorized representative or the managing agency referred to in § 311.1(b). No trailer, tent or other camping unit is permitted to remain more than 30 consecutive days.

(c) Camping fees, where applicable, will be as posted.

(d) Camping equipment shall not be abandoned or left unattended for 24 hours or more, and such equipment may not be placed on a camp site prior to actual occupancy.

(e) The installation by campers of any permanent facility at any camp ground is prohibited.

(f) Campers shall keep their campgrounds clean and dispose of combustibles and refuse in accordance with instructions posted at each campground by the District Engineer or his authorized representative or the managing agency referred to in § 311.1(b).

(g) Due to diligence shall be exercised in building and putting out camp fires to prevent damages to trees and vegetation and to prevent forest fires and grass fires.

(h) Camping equipment shall be completely removed and the sites cleaned before the departure of the campers.

(i) Quiet shall be maintained in all camping areas between the hours of 10 p.m. and 6 a.m.

§ 311.8 Picnicking.

(a) Picnicking is permitted except in prohibited areas designated by the District Engineer or his authorized representative, or the managing agency referred to in § 311.1(b).

(b) Picnickers shall keep their picnic area clean and dispose of garbage and refuse in accordance with instructions posted by the District Engineer or his authorized representative or the managing agency referred to in § 311.1(b).

RULES AND REGULATIONS

4497

(c) Due diligence shall be exercised in building and putting out fires to prevent damages to trees and vegetation and to prevent forest and grass fires.

§ 311.9 Access to water areas.

(a) Pedestrian access is permitted along the shores of the lake or reservoir except in areas designated by the District Engineer or his authorized representative.

(b) Vehicular access is permitted only over open public lake and reservoir roads. The operator of any vehicle shall obey all posted vehicular traffic control signs and devices.

(c) Access for the general public to launch boats is permitted only at the public launching sites designated by the District Engineer.

§ 311.10 Destruction of public property.

The destruction, injury, defacement, or removal of public property or of vegetation, rock, or minerals, except as authorized is prohibited.

§ 311.11 Firearms, explosives, fireworks and other weapons of all kinds.

Loaded firearms, any projectile firing devices, bows and arrows, crossbows, and explosives of any kind are prohibited in the area, except when in the possession of a law enforcement officer or Government employee on official duty, when any hunting devices are being used for hunting during the hunting season as permitted under § 311.6 or when specifically authorized by the District Engineer. The use of fireworks is prohibited in the area, except when authorized by the District Engineer or his authorized representative for special purposes.

§ 311.12 Gasoline and oil storage.

Gasoline and other flammable or combustible liquids shall not be stored in, upon, or about the lake or reservoir or shores thereof without the written permission of the District Engineer or his authorized representative.

§ 311.13 Sanitation.

Dumping and unauthorized disposal in any manner of refuse, garbage, rubbish, trash, or litter of any kind at such waters resources development projects, either into the waters of such projects or onto any land federally owned and administered by the Chief of Engineers is prohibited, except at designated points or places designed for the sanitary disposal thereof.

§ 311.14 Advertisements.

Private notices and advertisements shall not be posted, distributed or displayed in the lake or reservoir area except such as the District Engineer or his authorized representative may deem necessary for the convenience and guidance of the public using the area for recreational purposes.

§ 311.15 Unauthorized solicitations and business activities.

No person, firm, or corporation, or their representatives shall engage in or solicit any business on the lake or res-

ervoir area without permission in writing from the District Engineer or in accordance with terms of a lease, license, or concession contract with the Department of the Army.

§ 311.16 Commercial operations.

All commercial operations or activities on the waters or on the lands under the control of the Department of the Army around the lake or reservoir shall be in accordance with lease, license, or other agreements with the Department of the Army.

§ 311.17 Recreational activity programs.

(a) Special events such as water carnivals, boat regattas, music festivals, dramatic presentations, or other special recreational programs of interest to the general public are permitted in areas designated by the District Engineer or his authorized representative.

(b) A permit shall be obtained from the District Engineer or his authorized representative by the governmental or legally responsible private agency proposing to hold a special event as indicated in this section. No charge will be made for this permit.

(c) The District Engineer in charge of the area shall have authority to revoke any permit granted under this section and to require the removal of any equipment upon failure of the permittee to comply with the terms and conditions of the permit or with the regulations in this part.

§ 311.18 Abandonment of personal property.

Abandonment of personal property on the land or waters of the lake or reservoir area is prohibited. Personal property shall not be left unattended upon the lands and waters of the lake or reservoir area except in accordance with the regulations prescribed in this part or under permits issued therefor. The Government assumes no responsibility for personal property and if such property is abandoned or left unattended in other than places designated in a permit issued therefor or under a regulation for a period in excess of 24 hours it will be impounded, and if not reclaimed by the owners it will be treated as abandoned private personal property. The District Engineer may assess a reasonable impoundment fee, which shall be paid before the impounded property may be returned to its owners.

§ 311.19 Discriminatory practices prohibited.

All project land and water areas which are open to the public shall be available for use and enjoyment by the public without regard to race, creed, color, or national origin. No lessee or licensee of a project area under lease or license providing for a public or quasi-public use, including group camp activities, and no concessionaire of a lessee or license providing a service to the public, including facilities and accommodations, shall discriminate against a person or persons because of race, creed, color, or national

origin in the conduct of its operations under the lease, license or concession agreements.

§ 311.20 Control of horses, dogs, cats and pets.

(a) Horseback riding is prohibited in developed camping, picnicking, and swimming beach areas and areas as may be designated by the District Engineer or his authorized representative or the managing agency referred to in § 311.1(b).

(b) Dogs, cats, and pets are prohibited unless they are caged, penned, on a leash no longer than 6 feet, or otherwise under physical restrictive control at all times.

(c) Horses, dogs, cats, and pets are prohibited in designated beach areas.

§ 311.21 Visiting hours.

The District Engineer or his authorized representative or the managing agency referred to in § 311.1(b) may establish a reasonable schedule of visiting hours for all or portions of the area and close or restrict the public use of all or any portion of the area, when necessary for the protection of the area or the safety and welfare of persons or property by posting of appropriate signs indicating the extent and scope of closure. All persons shall observe and abide by the officially posted signs designating closed areas and visiting hours.

§ 311.22 Noise levels.

The operation or use of any audio or noise producing device including communication media and motorized equipment or vehicles in such a manner as to unreasonably annoy or endanger persons in any public place on the project is prohibited.

§ 311.23 Vehicles.

The following are prohibited at developed recreation sites:

(a) Driving motor vehicles in excess of posted speeds.

(b) Driving or parking any vehicle or trailer except in places developed for this purpose.

(c) Driving any vehicle carelessly and heedlessly disregarding the rights or safety of others or without due caution and at a speed, or in a manner, so as to endanger, or be likely to endanger, any person or property.

(d) Driving bicycles, motorbikes, motorcycles, snowmobiles, or other recreational vehicles within developed recreation sites, except where otherwise designated by appropriate signs.

(e) Driving motorbikes, motorcycles, snowmobiles, or other motor vehicles on roads in developed recreation sites for any purpose other than access into, or egress out of, the site.

(f) Operating a motor vehicle at any time without a muffler in good working order, or operating a motor vehicle in such a manner as to create excessive or unusual noise or annoying smoke, or using a muffler cutoff, bypass, or similar device.

(g) Excessively accelerating the engine of a motor vehicle or motorcycle when

such vehicle is not moving or is approaching or leaving a stopping place.

For the Adjutant General.

R. B. BELNAP,
Special Advisor to TAG.

[FR Doc.71-3143 Filed 3-5-71;8:46 am]

Title 43—PUBLIC LANDS: INTERIOR

Chapter II—Bureau of Land Management, Department of the Interior

APPENDIX—PUBLIC LAND ORDERS

[Public Land Order 5028]

[Colorado 1513]

COLORADO

Opening of Lands Subject to Section 24 of the Federal Power Act

By virtue of the authority contained in section 24 of the Act of June 10, 1920, 41 Stat. 1075, as amended, 16 U.S.C. sec. 818 (1964), it is ordered as follows:

In DA-490-Colorado, the Federal Power Commission determined that the power value of the following described national forest land, withdrawn in Powersite Classification No. 431 of May 5, 1954, will not be injured or destroyed by restoration to location, entry, or selection under the appropriate public land laws, subject to the provisions of section 24 of the Federal Power Act, supra:

WHITE RIVER NATIONAL FOREST

SIXTH PRINCIPAL MERIDIAN

T. 11 S., R. 88 W., sec. 36, lot 4.

The area described aggregates 40.07 acres in Gunnison County.

At 10 a.m. on April 6, 1971, the land shall be open to such forms of disposition as may by law be made of national forest lands, subject to valid existing rights, the provisions of existing withdrawals, and subject to the provisions of section 24 of the Federal Power Act, supra.

The land has been and continues to be open to applications and offers under the mineral leasing laws, and to location and entry under the U.S. mining laws.

Inquiries concerning the land should be addressed to the Manager, Land Office, Bureau of Land Management, Denver, Colo.

HARRISON LOESCH,

Assistant Secretary of the Interior.

MARCH 1, 1971.

[FR Doc.71-3153 Filed 3-5-71;8:47 am]

Title 45—PUBLIC WELFARE

Subtitle A—Department of Health, Education, and Welfare, General Administration

PART 70—STANDARDS FOR A MERIT SYSTEM OF PERSONNEL ADMINISTRATION

The regulations set forth below, approved by the Secretary of Health, Edu-

cation, and Welfare, the Secretary of Labor, and the Secretary of Defense, amend Subtitle A, Title 45 of the Code of Federal Regulations by revising Part 70 pertaining to personnel standards on a merit basis in the administration of various grant-in-aid programs. The revision of the regulations is designed to strengthen equal employment opportunity provisions, to facilitate employment of the disadvantaged, to emphasize the options available to State and local governments, to promote flexibility and experimentation in approaches to personnel administration, and to clarify the intent of the Standards.

These amendments shall be effective upon their publication in the FEDERAL REGISTER. Notice of proposed rule making has been dispensed with for good cause since notice and public procedure thereon are unnecessary and impracticable for the following reasons.

The revision is designed to promote flexibility and encourage innovation in personnel administration by State and local agencies administering federally aided programs, and delay would be contrary to the interest of such agencies, their employees, persons seeking employment with them, and the public.

There was substantial consultation with State, local, and Federal officials in developing the amendments, and they were submitted formally for comments to groups represented by the Advisory Commission on Intergovernmental Relations in accordance with Bureau of the Budget Circular A-85, and favorable response was received.

On January 5, 1971, the President approved the Intergovernmental Personnel Act of 1970, 84 Stat. 1909, Public Law 91-648. Section 208 of this Act provides for transfer to the U.S. Civil Service Commission on March 6, 1971, of all the functions, powers, and duties of the Secretary of Labor and the Secretary of Health, Education, and Welfare relating to the prescription of personnel standards on a merit basis under various laws, including those which are implemented by these regulations. Even if the proposed rule making procedure were initiated at this time, a decision to adopt the proposed rules and their publication as final regulations could not be accomplished prior to the transfer of authority. In this situation, the urgently needed revision could be further delayed pending de novo consideration of the matter by the Civil Service Commission.

The Intergovernmental Personnel Act provides that the Standards in effect at the time of transfer of functions to the Civil Service Commission continue in effect until modified or superseded by the Commission. It is desirable that these revised Standards be effective rather than those issued in 1963. The Civil Service Commission concurs in this approach.

Part 70 is revised to read as set forth below:

Sec.	
70.1	Purpose.
70.2	Jurisdiction.
70.3	Merit system organization.
70.4	Equal employment opportunity.
70.5	Employee-management relations.
70.6	Political activity.

Sec.	
70.7	Classification.
70.8	Compensation.
70.9	Recruitment.
70.10	Selection.
70.11	Appointment.
70.12	Career advancement.
70.13	Layoffs and separations.
70.14	Cooperation between merit systems.
70.15	Extension of merit system.
70.16	Personnel records and reports.

AUTHORITY: The provisions of this Part 70 issued under: 29 U.S.C. 48d(b); 40 U.S.C. 484(j); 42 U.S.C. 246(a)(2)(F), 246(d)(2)(F), 291d(a)(8), 302(a)(5)(A), 503(a)(1), 602(a)(5)(A), 639, 705(a)(3)(A), 1202(a)(5)(A), 1302, 1352(a)(5)(A), 1382(a)(5)(A), 1395hh, 1396a(a)(4)(A), 2674(b)(7), 2684(a)(6), 3023(a)(6), 4573(a)(5); 50 U.S.C. App. 2286(a)(4).

§ 70.1 Purpose.

(a) These standards are promulgated by the Departments of Health, Education, and Welfare, Labor, and Defense to implement statutory and regulatory provisions requiring the establishment and maintenance of personnel standards on a merit basis in the administration of various grant-in-aid programs.

(b) The development of proper and efficient administration of the grant-in-aid programs is a mutual concern of the Federal, State, and local agencies cooperating in the programs. Proper and efficient administration requires clear definition of functions, employment of the most competent available personnel, and development of staff morale and individual efficiency. The cooperative efforts of merit system and program agency personnel offices in providing comprehensive personnel programs are essential. Such programs provide for analyzing and classifying jobs; establishing adequate and equitable salary, fringe benefit, and retirement plans; projecting manpower needs and planning to meet them; developing effective recruitment, selection, placement, training, employee evaluation, and promotion programs; assuring equal opportunity and providing affirmative action programs to achieve that end; protecting employees from discrimination, arbitrary removal, and political pressures; conducting positive employee-management relations and communications; and providing research to improve personnel methods. Personnel programs must be planned and administered in a timely, expeditious manner to meet effectively program and merit system objectives.

(c) An integral part of the grant-in-aid programs is the maintenance by the State and local governments of a merit system of personnel administration for the grant-aided agencies. The Federal agencies are interested in the development and continued improvement of State and local merit systems but exercise no authority over the selection, tenure of office, or compensation of any individual employed in conformity with the provisions of such systems.

(d) Laws, rules, regulations, and policy statements to effectuate a merit system in accordance with these standards are a necessary part of the approved State plans required as a condition of

SAM AR001009-SAM AR001011

This amendment shall become effective April 9, 1965.

(Secs. 313(a), 601, 603; 72 Stat. 752, 775, 776; 49 U.S.C. 1354(a), 1421, 1423)

Issued in Washington, D.C. on April 2, 1965.

C. W. WALKER,
Acting Director,
Flight Standards Service.

[F.R. Doc. 65-3681; Filed, Apr. 8, 1965;
8:45 a.m.]

[Airspace Docket No. 65-CE-41]

PART 71—DESIGNATION OF FEDERAL AIRWAYS, CONTROLLED AIRSPACE, AND REPORTING POINTS

Alteration of Transition Area

The purpose of this amendment to Part 71 of the Federal Aviation Regulations is to revoke a portion of the Helena, Mont. transition area.

The Helena, Mont., radio range is being converted to an H facility on June 24, 1965, and the Helena L/MF range approach procedure (AL-192-RNG) is being cancelled effective that date. This will make the controlled airspace based on that facility unnecessary.

Since this amendment is less restrictive in nature and imposes no additional burden on any person, notice and public procedure hereon are unnecessary and the amendment may become effective without regard to the 30 day statutory period.

In consideration of the foregoing, Part 71 of the Federal Aviation Regulations is amended, effective June 24, 1965, as hereinafter set forth.

In § 71.181 (29 F.R. 16971 and 17643) the Helena, Mont., transition area is amended by deleting "within 6 miles SW and 8 miles NE of the SE course of the Helena RR extending from the RR to 17 miles SE of the RR" from the text.

(Sec. 307(a) of the Federal Aviation Act of 1958; 49 U.S.C. 1348)

Issued in Kansas City, Missouri, on March 30, 1965.

EDWARD C. MARSH,
Director, Central Region.

[F.R. Doc. 65-3682; Filed, Apr. 8, 1965;
8:45 a.m.]

[Airspace Docket No. 64-CE-107]

PART 71—DESIGNATION OF FEDERAL AIRWAYS, CONTROLLED AIRSPACE, AND REPORTING POINTS

Designation of Transition Area

On January 23, 1965, a notice of proposed rule making was published in the FEDERAL REGISTER (30 F.R. 760) stating that the Federal Aviation Agency proposed to alter the controlled airspace in the Mt. Pleasant, Mich., terminal area.

Interested persons were afforded an opportunity to participate in the rule making through submission of comments. A number of comments on the proposed rule were received and the majority of them were favorable. A number of persons opposing the rule felt that it would seriously and unduly re-

strict operations at small airports in the vicinity of the Mt. Pleasant Airport. Careful study indicated that the proposed rule would have little restrictive effect on other airports in the immediate area and would, in fact, be less restrictive insofar as at least two of the airports in this area are concerned. Several persons who objected to the proposed rule requested a public hearing. After full consideration, it was determined that the objections raised did not constitute a reasonable basis for granting a public hearing and the requests were denied.

In consideration of the foregoing, Part 71 of the Federal Aviation Regulations is amended, effective 0001 e.s.t., May 27, 1965, as hereinafter set forth.

In § 71.181 (29 F.R. 17643) the following is added:

MT. PLEASANT, MICH.

That airspace extending upward from 700 feet above the surface within a 4-mile radius of Mt. Pleasant, Mich., Airport (latitude 43°37'00" N., longitude 84°44'00" W.); and within 2 miles each side of the 093° bearing from Mt. Pleasant, Mich., Airport extending from the 4-mile radius area to 8 miles E of the airport; and that airspace extending upward from 1,200 feet above the surface bounded on the S by the S edge of V-216, on the E by longitude 84°25'00" W., on the NE by a line 10 miles SW and parallel to the Saginaw, Mich., VOR 317° radial, on the NW by a line from latitude 43°49'15" N., longitude 84°43'30" W., to latitude 43°27'00" N., longitude 85°02'00" W., and on the W by longitude 85°02'00" W.

(Sec. 307(a) of the Federal Aviation Act of 1958; 49 U.S.C. 1348)

Issued in Kansas City, Mo., on March 29, 1965.

HENRY L. NEWMAN,
Acting Director, Central Region.

[F.R. Doc. 65-3683; Filed, Apr. 8, 1965;
8:45 a.m.]

Title 36—PARKS, FORESTS, AND MEMORIALS

Chapter III—Corps of Engineers, Department of the Army

PART 313—WATER RESOURCE DEVELOPMENT PROJECTS HAVING JOINT REGULATIONS

A new Part 313 is added, as follows:

Sec.	Determination of the Secretaries.
313.0	Areas covered.
313.1	Division of authority.
313.2	Boats, commercial.
313.3	Boats and other vessels, private.
313.4	Mooring, care and sanitation of boats and floating facilities.
313.5	Swimming and bathing.
313.6	Hunting and fishing.
313.7	Camping.
313.8	Picnicking.
313.9	Access to water areas.
313.10	Destruction of public property.
313.11	Firearms and explosives.
313.12	Gasoline and oil storage.
313.13	Sanitation.
313.14	Advertisements.
313.15	Unauthorized solicitations and business activities.
313.16	Commercial operations.
313.17	Recreational activity programs.
313.18	

Sec.

313.19 Abandonment of personal property.
313.20 Discriminatory practices prohibited.

AUTHORITY: The provisions of this Part 313 issued under sec. 4, 58 Stat. 899, as amended; 16 U.S.C. 460d.

§ 313.0 Determination of the Secretaries.

The Secretary of the Army and the Secretary of Agriculture, having determined that the use of the following water resource development projects by the general public for boating, swimming, bathing, fishing, and other recreational purposes, will not be contrary to the public interest, and will not be inconsistent with the operation and maintenance of the projects for their primary purposes, hereby prescribe the following rules and regulations for public use of the following water resource projects pursuant to the provisions of section 4 of the Act of Congress approved December 22, 1944 (58 Stat. 889; 16 U.S.C. 460d) as amended by the Flood Control Act of 1946 (60 Stat. 641) and section 209 of the Flood Control Act of 1954 (68 Stat. 1266) and further amended on October 23, 1962, by section 207 of Public Law 87-874 (76 Stat. 1195) and the Act of June 4, 1897 (16 U.S.C. 475, 551) as supplemented by Public Law 86-517 (74 Stat. 215); Land and Water Conservation Act of 1965 (78 Stat. 897).

§ 313.1 Areas covered.

The regulations contained in this part shall be applicable to: Sam Rayburn Reservoir Area, Angelina River, Tex.

§ 313.2 Division of authority.

The Corps of Engineers, Department of the Army, is responsible for the operation and maintenance of the projects listed in this part for all the primary purposes for which they were constructed. However, since the projects are partially located on lands under the jurisdiction of the U.S. Forest Service, Department of Agriculture, the recreation and public use program will be accomplished under a joint venture between the two agencies operating under their respective laws and regulations and in accordance with a memorandum of understanding consummated between the District Engineer and the Regional Forester. The Corps of Engineers will have jurisdiction over all activities conducted in or on the impounded water, except those activities which by mutual agreement will be handled by the Forest Supervisor. The District Engineer will have jurisdiction over Corps of Engineers land in the project area not assigned to the National Forests, and any National Forest lands specifically assigned to the Corps of Engineers. The Forest Supervisor will have jurisdiction of National Forest lands in the project area not assigned to the Corps of Engineers and any Corps of Engineers lands specifically assigned to the Forest Service. Activities in and on the project lands which affect the jurisdiction of either agency will be managed in accordance with mutually agreed upon rules and regulations. The project areas over which these rules and regulations apply will include all lands as mutually agreed to between representatives of the Corps

of Engineers and the Forest Service. These lands are described as follows:

(a) All project lands acquired in fee title by the Corps of Engineers.

(b) Lands acquired in fee title by the Forest Service as follows:

(1) All lands located in the reservoir area below the upper guide contour, or backwater elevation, whichever is higher, and any land designated or developed for public access and use in conjunction with this project which may be located above the aforementioned elevations.

(2) Downstream from the dam and required for the construction, operation and maintenance of the dam and the appurtenant structures, including any land designated or developed for public access and use in conjunction with the project.

§ 313.3 Boats, commercial.

No boat, barge or other vessel shall be placed upon or operated upon any water of the reservoirs for a fee or profit, either as a direct charge to a second party or as an incident to other services provided to the second party, except as specifically authorized by a permit issued by the Corps of Engineers and by a lease, license, or concession contract with the Army or Agriculture Departments.

§ 313.4 Boats and other vessels, private.

(a) The operation of boats, cruising houseboats, cabin cruisers, and other vessels on the reservoir for fishing and recreational use is permitted except in prohibited areas designated by the District Engineer in charge of the reservoir area and subject to the regulations contained in this part.

(b) A permit shall be obtained from the District Engineer or his authorized representative for placing and operating a boat or other vessel on the reservoir for any one period longer than three days. No charge will be made for this permit. The permit shall be kept aboard the vessel at all times that the vessel is in operation on the reservoir. The District Engineer in charge of the area or his authorized representative shall have authority to revoke the permit and to require removal of the vessel upon failure of the permittee to comply with the terms and conditions of the permit or with the regulations in this part.

(c) Unsafe boats or other vessels will not be permitted on the reservoir. The District Engineer may require the applicant to obtain a permit and furnish the construction plans and other information pertaining to the construction and equipment of the boat or other vessel prior to issuing a permit for its operation on the reservoir. All boats permitted on the reservoir shall be equipped for safe operation and operated in a safe manner in accordance with instructions issued by the District Engineer. These instructions may provide that the operation of speedboats and water skiing activities shall be confined to areas of water designated by the District Engineer for such activities.

(d) Boathouses, cruising houseboats, cabin cruisers and other vessels may be placed and operated on the reservoir, except that such facility shall not be utilized for human habitation at a fixed or permanent mooring point.

§ 313.5 Mooring, care and sanitation of boats and floating facilities.

(a) All boats or other vessels when not in actual use must be either removed from the reservoir, securely moored at authorized docks, or boathouses where supervision by the owner or his representative is provided on a 24-hour-day basis, or placed in the care of a marina concessionaire authorized to care for floating equipment on a 24-hour-day basis.

(b) All boats, barges, and other vessels or floating facilities will be moored only in locations designated by the District Engineer or his designated representative. All mooring facilities will be constructed in accordance with plans and a permit approved by the District Engineer or his designated representative. He shall have authority to revoke such permit and require removal of the facility for failure of the permittee to comply with the terms and conditions of the permit or with the regulations of this part.

(c) The discharge of sewage, garbage, or other pollutant in the waters of the reservoir from any boat, barge, or other vessel on the reservoir is prohibited except in accordance with regulations of the State and local health agencies permitting such discharge when underway in deep waters other than embayments. All such pollutants shall be deposited ashore at places designated for such deposit and disposal (33 U.S.C. 407).

§ 313.6 Swimming and bathing.

Swimming and bathing are permitted except in prohibited areas designated by the District Engineer and/or the Forest Supervisor.

§ 313.7 Hunting and fishing.

(a) Hunting and fishing are permitted in accordance with all applicable Federal, State, and local laws for the protection of fish and game except in prohibited areas, including the following:

(1) Public access, park, and recreation areas in which all hunting is prohibited.

(2) Prohibited areas designated by the District Engineer or the Forest Supervisor in which hunting or fishing or both are prohibited.

(3) Prohibited areas designated by Federal or State managing agencies under applicable laws administered by such agencies.

(b) Hunting is restricted to the use of bow and arrow or shotgun loaded with shot throughout the reservoir area except in managed game areas, where the special hunting regulations of the managing agency with the prior approval of the District Engineer or Forest Supervisor will apply.

(c) A permit shall be obtained from the District Engineer or his authorized representative to construct a duck blind on the water in the reservoir area.

§ 313.8 Camping.

(a) Camping is permitted only at areas designated by the District Engineer or the Forest Supervisor in charge of the reservoir area or their authorized representative.

(b) Approval of the District Engineer or the Forest Supervisor or their author-

ized representative is required to camp in the reservoir area for any one period of 2 weeks or longer.

(c) Camping equipment shall not be abandoned or left unattended for 48 hours or more.

(d) The installation of any permanent facility at any public campground is permitted only on written authorization of the District Engineer or the Forest Supervisor, or their authorized representative.

(e) Campers shall keep their campgrounds clean and dispose of combustibles and refuse in accordance with instructions posted by the District Engineer or the Forest Supervisor at each campground.

(f) Due diligence shall be exercised in building and putting out campfires to prevent damages to trees and vegetation and to prevent forest and grass fires.

(g) Camp must be completely razed and sites cleaned before departure of the campers.

(h) The use of a trailer (towed by passenger vehicle) for camping is permissible provided:

(1) The length of stay is governed by (b) above;

(2) No permanent fixtures attached to the ground are constructed in connection with the trailer;

(3) The trailer retains its mobility at all times;

(4) That trailer parking and camping is permitted only at locations in public campgrounds approved by the District Engineer or Forest Supervisor.

§ 313.9 Picnicking.

Picnicking is permitted except in prohibited areas designated by the District Engineer or the Forest Supervisor or their authorized representative.

§ 313.10 Access to water area.

(a) Pedestrian access is permitted along the shores of the reservoir except in areas designated by the District Engineer or the Forest Supervisor, or their authorized representative.

(b) Automobile access is permitted only over open public and reservoir roads.

(c) Access for the general public to launch boats is permitted only at the public launching sites designated by the District Engineer or the Forest Supervisor.

§ 313.11 Destruction of public property.

The destruction, injury, defacement, or removal of public property or of vegetation, rock, or minerals, except as authorized, is prohibited.

§ 313.12 Firearms and explosives.

Loaded rifles, loaded shotguns, loaded pistols, and explosives of any kind are prohibited in the area, except when in the possession of a law enforcement officer or government employee on official duty, when shotguns or rifles are being used for hunting during the hunting season as permitted under § 313.7, and when specifically authorized by the District Engineer or the Forest Supervisor.

§ 313.13 Gasoline and oil storage.

Gasoline and other inflammable or combustible liquids shall not be stored

in, upon, or about the reservoir or shores thereof without written permission of the District Engineer or the Forest Supervisor, or their authorized representative.

§ 313.14 Sanitation.

Refuse, garbage, rubbish, or waste of any kind shall not be thrown on or along roads, picnicking or camping areas, in the reservoir waters, or on any of the lands around the reservoir, but shall be buried or burned or disposed of at designated points or places designed for the sanitary disposal thereof.

§ 313.15 Advertisements.

Private notices and advertisements shall not be posted, distributed, or displayed in the reservoir area except such as the District Engineer or the Forest Supervisor, or their authorized representative, may deem necessary for the convenience and guidance of the public using the area for recreational purposes.

§ 313.16 Unauthorized solicitations and business activities.

No person, firm, or corporation, or their authorized representatives, shall engage in or solicit any business on the reservoir area without permission in writing from the District Engineer or the Forest Supervisor in accordance with terms of lease, license, or concession contract with the Army or Agriculture Departments.

§ 313.17 Commercial operations.

All commercial operations or activities on the waters of the reservoir or on the lands under the control of the Corps of Engineers or the U.S. Forest Service around the reservoir shall be in accordance with lease, license, or other agreements with the Army or Agriculture Departments.

§ 313.18 Recreational activity program.

(a) Special events such as water carnivals, boat regattas, music festivals, dramatic presentations, or other special recreational programs of interest to the general public are permitted in areas designated by the District Engineer or the Forest Supervisor, or their authorized representative.

(b) A permit shall be obtained from the District Engineer or the Forest Supervisor, or their authorized representative, by the governmental or legally responsible private agency proposing to hold a special recreation program as indicated in this section. No charge will be made for this permit.

(c) The District Engineer or the Forest Supervisor in charge of the area shall have authority to revoke any permit granted under this section and to require the removal of any equipment upon failure of the permittee to comply with the terms and conditions of the permit or with the regulations in this part.

§ 313.19 Abandonment of personal property.

(a) Abandonment of personal property on the land or waters of the reservoir area is prohibited. Personal prop-

erty shall not be left unattended upon the lands and waters of the reservoir area except in accordance with the regulations prescribed in this part or under permits issued therefor.

(b) The government assumes no responsibility for personal property and if such property is abandoned or left unattended on waters of the reservoir or on lands under the jurisdiction of the Corps of Engineers in other than places designated in a permit issued therefor or under a regulation for a period in excess of 48 hours, it will be impounded, and if not claimed by the owners thereof within 90 days will be sold, destroyed, converted to government use, or otherwise disposed of as determined by the District Engineer or his authorized representative.

(c) Personal property which has been abandoned or left unattended on lands under the jurisdiction of the Forest Service in other than places designated in a permit issued therefor or under a regulation shall be impounded and otherwise handled in accordance with the Secretary of Agriculture's Regulation T-15 (36 CFR 261.16).

§ 313.20 Discriminatory practices prohibited.

All project land and water areas which are open to the public shall be available for use and enjoyment by the public without regard to race, creed, color or national origin. No lessee or licensee of a project area under lease or license providing for a public or quasi-public use, including group camp activities, and no concessionaire of a lessee or licensee providing a service to the public, including facilities and accommodations, shall discriminate against any person or persons because of race, creed, color or national origin in the conduct of its operation under the lease, license or concession agreement.

J. C. LAMBERT,
Major General, U.S. Army,
The Adjutant General.

[F.R. Doc. 65-3694; Filed, Apr. 8, 1965; 8:46 a.m.]

Title 47—TELECOMMUNICATION

Chapter I—Federal Communications Commission

PART 0—COMMISSION ORGANIZATION

Radio Operator Examination Points

The Commission having under consideration a modification of its commercial and amateur radio operator license examination points; and

It appearing, that it will be in the public interest to conduct operator examinations semi-annually instead of annually at Fairbanks, Alaska, in view of the increased demand for examinations to be given at that location; and

It further appearing, that the amendment herein ordered is procedural in nature and not substantive and therefore compliance with public rulemaking procedures required by sections 4 (a) and

(b) of the Administrative Procedure Act is not required.

It is ordered, This 6th day of April 1965, pursuant to authority of § 0.261 of the Commission's rules and to authority contained in sections 4(i) and 303(r) of the Communications Act of 1934, as amended, and pursuant to section 3(a) of the Administrative Procedure Act, that § 0.445(c) of the Commission's rules be amended as set forth below, effective April 12, 1965.

Released: April 6, 1965.

FEDERAL COMMUNICATIONS
COMMISSION,
[SEAL] BEN F. WAPLE,
Secretary.

§ 0.445 [Amended]

Section 0.445(c) of the Commission's rules is amended by deleting Fairbanks, Alaska, from the "annual" listing and adding Fairbanks, Alaska, to the "semi-annual" listing within this section.

[F.R. Doc. 65-3701; Filed, Apr. 8, 1965; 8:47 a.m.]

[Docket No. 15399—FCC 65-250]

PART 89—PUBLIC SAFETY RADIO SERVICES

PART 91—INDUSTRIAL RADIO SERVICES

PART 93—LAND TRANSPORTATION RADIO SERVICES

Secondary Frequency Assignments in California

In the matter of temporarily amending Parts 89, 91 and 93 of the Commission's rules and regulations to test the principle of secondary frequency assignments in the State of California Docket No. 15399.

1. The Commission, on its own motion, issued a notice of proposed rule making in the above-entitled matter (FCC 64-267) on March 27, 1964 (29 F.R. 4808). The time for filing comments and reply comments has now expired. The proposal involved the sharing in California of land mobile frequencies which might be uncongested in a given geographical area by certain services other than those to which the frequencies are allocated.

2. Comments in this proceeding were filed by the following parties:

Association of American Railroads (AAR).
California Public-Safety Radio Association (CPRA).
California State Communications Advisory Board (California).
Central Committee of Communication Facilities of the American Petroleum Institute (API).
City of Burbank (Burbank).
Forest Industries Radio Communications (FIRC).
Land Mobile Communications Section of the Electronic Industries Association (EIA).
National Committee for Utilities Radio (NCUR).
Pacific Telephone and Telegraph Company (PT&T).
City of San Diego (San Diego).

SAM AR001012-SAM AR001101

ALABAMA-COOSA RIVER BASIN
RESERVOIR REGULATION MANUAL

APPENDIX A

ALLATOONA RESERVOIR
ETOWAH RIVER, GEORGIA

REVISED
AUGUST 1962

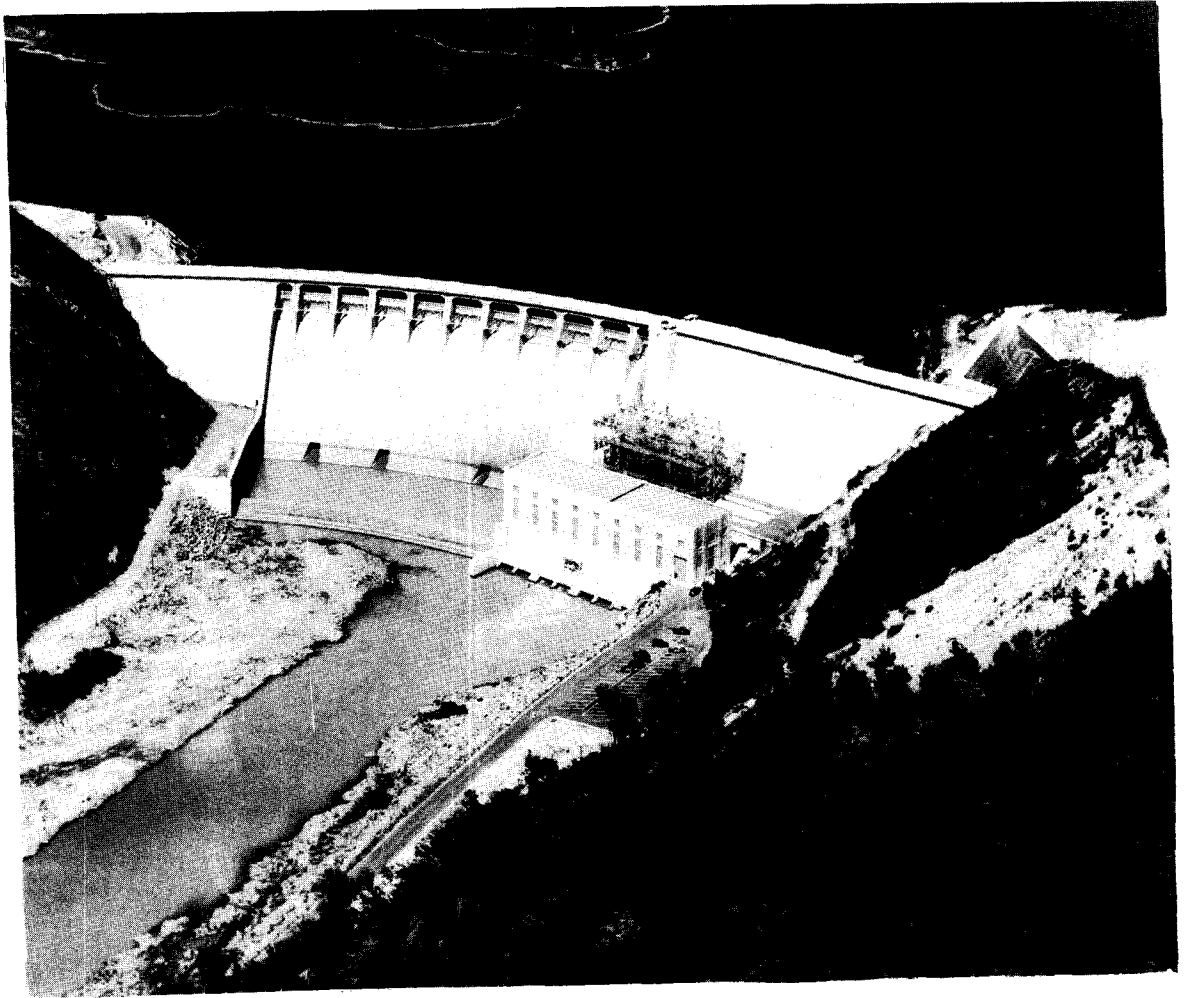
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ALABAMA-COOSA RIVER BASIN
RESERVOIR REGULATION MANUAL

APPENDIX A

ALLATOONA RESERVOIR
ETOWAH RIVER, GEORGIA

Revised
August 1962



ALLATOONA DAM

**ALABAMA-COOSA RIVER BASIN
RESERVOIR REGULATION MANUAL**

APPENDIX A

ALLATOONA RESERVOIR

ETOWAH RIVER, GEORGIA

TABLE OF CONTENTS

	<u>Par. No.</u>	<u>Page No.</u>
PERTINENT DATA		1
HISTORY OF PROJECT	1	4
DESCRIPTION OF PROJECT		
Location	10	6
Purpose	11	6
General features	12	6
Dam and reservoir	13	6
Spillway	15	6
Sluices	16	7
Powerhouse and penstocks	17	7
Switchyard and transformer substation	18	7
Earth dikes	19	7
Acworth subimpoundment	20	8
Recreation	21	8
EXTENT OF CONTROL		
Drainage area controlled and area affected by reservoir operations for flood control	25	9
Degree of control	26	9
Magnitude of floods controlled at Allatoona Reservoir	27	10

OPERATION PLAN

General	28	13
Reservoir operation for power	29	14
Operation during periods of low flow at Rome	32	18
Mosquito-control operations	35	19
Fish and wildlife management	36	19
Basic method of flood-control regulation	37	19
Coordination with other projects	42	21
Examples of regulation	45	22

REGULATION SCHEDULES

Guide curves for power operations	47	23
Power operations during periods of low flow at Rome	48	23
Mosquito-control operations	49	23
Fish and wildlife management	50	23
Normal flood-control regulation schedule	51	23
Emergency flood-control regulation schedule	53	24
Operating instructions for crest gates and sluices	57	25

COMMUNICATIONS AND REPORTING NETWORKS

Communications	58	26
Automatic radio reporting hydrologic network	59	26
Rainfall reporting network	60	26
River-stage reporting network	64	27

TABLE OF CONTENTS (Cont'd)

	<u>Par. No.</u>	<u>Page No.</u>
FORECASTING PROCEDURE		
General	66	31
Responsibility for issuing stage forecasts to public	67	31
Forecasting procedure	68	31
Inflow to Allatoona Reservoir	70	31
Cartersville and Kingston	71	32
Rome	73	32
Effect of power releases	74	32
CONTINUING STUDIES AND SURVEYS		
Sedimentation and retrogression surveys . . .	75	40
Studies in progress or planned	78	40
MISCELLANEOUS		
Temperature	79	41
Precipitation	80	41
Stream flow at Allatoona dam site	82	41

TABLE OF CONTENTS (Cont'd)

LIST OF TABLES

<u>Table No.</u>		<u>Page No.</u>
1	Drainage areas of Coosa River system above Gadsden, Ala.	11
2	Rainfall reporting network - Coosa River basin above Rome, Ga.	29
3	River-stage reporting network and other river stations in Coosa River basin above Rome (Mayo's Bar), Ga.	30
4	Rainfall-runoff relation for Etowah River basin	33
5	Rainfall-runoff relation for Oostanaula River basin	34
6	Unit hydrographs of reservoir inflow at Allatoona Dam	35
7	Unit hydrographs for Etowah River at Cartersville and Kingston excluding drainage area above Allatoona Dam	36
8	Unit hydrographs for Etowah River below Allatoona Dam and Oostanaula River	37
9	Effect of Allatoona power releases at Cartersville, Ga.	38
10	Effect of Allatoona power releases at Rome, Ga.	39
11	Normal monthly and annual precipitation Etowah River basin above Allatoona Dam	42
12	Maximum, minimum, and normal annual precipi- tation for selected stations in upper Etowah River basin	42

TABLE OF CONTENTS (Cont'd)

LIST OF CHARTS

Chart Nos.

DAM AND RESERVOIR FEATURES

1	Plan and sections of dam and powerhouse
2	Reservoir area
3	Recreational development
4	Area-capacity curves
5	Area-capacity table
6	Spillway rating curves
7	Rating curves for one 5'-8" x 10'-0" sluice
8	Rating curves for 48" sluice (Howell-Bunger valve)
9	Performance curves - main turbogenerator unit
10	Performance curves - small turbogenerator unit

REGULATION SCHEDULES

11	Flood-control zones and operating rules
12	Normal flood-control regulation schedule
13	Emergency flood-control regulation schedule
14	Guide curve for power operations
15	Induced-surcharge schedule
16	Limiting gate-opening schedule for induced-surcharge operation

HYDROLOGICAL AND FORECASTING FEATURES

17-19	Hydrographs - average daily discharge at dam site
20	General hydrological map - Coosa River basin above Rome, Ga.

TABLE OF CONTENTS (Cont'd)

LIST OF CHARTS

Chart Nos.

HYDROLOGICAL AND FORECASTING FEATURES (Cont'd)

21	Automatic radio reporting hydrologic network
22	Reporting instructions - rainfall station
23	Tabulation form for rainfall and river stage reports
24	Effect at Rome of power releases from Allatoona and Carters
25	Rating curve - Etowah River near Dawsonville, Ga.
26	Rating curve - Etowah River at Canton, Ga.
27	Rating curve - Etowah River at Allatoona Dam, Ga.
28	Rating curve - Etowah River near Cartersville, Ga.
29	Rating curve - Etowah River at Kingston, Ga.
30	Rating curve - Etowah River at Rome, Ga.
31	Rating curve - Oostanaula River at Resaca, Ga.
32	Relation of stage at Rome 5th Avenue to discharge at confluence of Etowah and Oostanaula Rivers

EFFECT OF FLOOD-CONTROL REGULATION

33	Standard project flood
34	Flood of January 1946
35	Flood of January 1947
36	Flood of December 1932

SPILLWAY DESIGN FLOOD

37	Inflow-outflow-pool hydrographs

PERTINENT DATASTREAM FLOW

Drainage area at dam site - square miles	1,110
Estimated minimum discharge (19 Oct 1931) - cfs	180
Minimum mean monthly flow (October 1931) - cfs	240
Average annual flow (1939-1960) - cfs	1,654
Discharge at bank full stage - cfs	9,500
Maximum mean monthly flow (December 1932) - cfs	9,358
Maximum recorded discharge (8 Jan 1946) - cfs	40,400

SPILLWAY DESIGN FLOOD

Total rainfall - inches	22.20
Initial loss - inches	0.00
Average infiltration rate - inches per hour	0.05
Total storm run-off - inches	19.80
Total volume of storm run-off - acre-feet	1,182,150
Peak rates of flow	
Natural flow of dam site - cfs	313,000
Inflow to full reservoir - cfs	440,000
Reservoir outflow - cfs	321,000
Duration of flood - days	3-1/2

RESERVOIR

Pool elevations - feet msl	
Maximum pool, spillway design flood	870.3
(initial pool, elevation 860)	
Top of flood-control pool	823 860.0
Top of power pool	varies seasonally from 820.0 to 840.0
Minimum power pool	800.0
Storage volumes - acre-feet	
Total storage - elevation 860	670,050
Flood-control storage	varies seasonally from 302,580 to ~~489,060~~
(5.11 to ~~8.26~~ inches of runoff)	~~467,280~~
Power storage	varies seasonally from 98,100 to 284,580
(~~1.66~~ to 4.81 inches of runoff)	
Dead storage, below elevation 800	82,890
Reservoir areas - acres	
Top of flood-control pool, elevation 860	19,201
Top of power pool, summer level, elevation 840	11,862
At maximum drawdown, elevation 800	3,251
Area within taking line - acres	
Purchased in fee simple	37,750
River bed	500
Total	38,250
Length of shoreline - miles	
Top of power pool, summer level, elevation 840	270
Length of reservoir at elevation 840 - river miles	28

PERTINENT DATA (Cont'd)DAM

Type, main dam	Reinforced concrete
Length over-all (approx.) - feet	1,250
Length non-overflow section (approx.) - feet	750
Maximum height, roadway to foundation - feet	200
Elevation, top of dam - feet, msl	880.0
Elevation, top of earth dikes - feet msl	875.0

SPILLWAY

Net length - feet	400
Crest elevation - feet, msl	835.0
Crest gates: 9 tainter gates, 40 feet wide by 26 feet high	
2 tainter gates, 20 feet wide by 26 feet high	
Elevation, top of crest gates, closed - feet msl	860.0
Total discharge capacity (pool elev. 870.3) - cfs	321,000
Total discharge capacity (pool elev. 860.0) - cfs	184,000

FLOOD CONTROL SLUICES

Number of sluices	5
4 sluices, 5'8" wide by 10'0" high	
1 sluice, 48" Howell-Bunger valve	
Total discharge capacity (pool elev. 860) - cfs	18,300
Total discharge capacity (pool elev. 840) - cfs	17,040
Total discharge capacity (pool elev. 800) - cfs	14,300

POWER PLANT

Present installation - kw	74,000
(2 units 36,000 kw each and 1 service unit 2,000 kw)	
Ultimate installation - kw	110,000
(3 units 36,000 kw each and 1 service unit 2,000 kw)	
Penstocks: three 20-foot and one 5-1/2 foot diameter steel pipes	

POWER DATA

Maximum drawdown for storage - feet	40
Volume in power storage - acre-ft., varies seasonally fm ~~98,100~~ to 284,580	
Gross static head - feet	~~119,880~~ 145.5
Minimum gross head, present installation - feet	110
Average head - feet	138

PERTINENT DATA (Cont'd)POWER DATA (Cont'd)

Tailwater elevations - feet msl	
Normal, 1 unit operating, outflow 4,200 cfs	692.60
Normal, 2 units operating, outflow 7,500 cfs	694.70
Normal, 3 units operating, outflow 11,600 cfs	697.90
(ultimate installation)	
Bankfull capacity, outflow 9,500 cfs	696.50
Minimum, outflow 203 cfs	690.00
Maximum, spillway design flood, outflow 321,000 cfs	733.1
(initial pool, elev. 860)	
Plant output	
Installed capacity (present), at rated power factors - kw	74,000
Installed capacity (present), at unity power factor - kw	82,500 ✓
Dependable capacity (present installation) - kw	60,000
Overload capacity (present), at unity power factor - kw	95,000
Average annual energy - kwh	169,000,000
Average annual primary energy - kwh	87,600,000

HISTORY OF PROJECT

1. The site of Allatoona Dam on the Etowah River near Cartersville, Ga., has long appealed to engineers as being outstanding for its chosen purpose, although no record can be found as to who first realized its possibilities. The first official recognition is revealed in a document entitled "Reports on Examination and Survey of Etowah, Coosa, Tallapoosa and Alabama Rivers", which was prepared in 1910 under the direction of Capt. Harley B. Ferguson, Corps of Engineers, U. S. Army, later President of the Mississippi River Commission. According to that report the site was considered suitable for a dam of any height up to 200 feet. It is interesting to note that Allatoona Dam rises 190 feet above the river bed.
2. In the late 1920's, the Georgia Power Company became seriously interested in the Allatoona site and conducted extensive surveys and studies thereon. In 1934, the Corps of Engineers, under the provisions of House Document No. 308, 69th Congress, 1st session, developed a general plan for over-all development of the Alabama-Coosa River system. That report, published in House Document No. 66, 74th Congress, 1st session, included Allatoona Dam, but the economic aspect of the project appeared unfavorable at that time.
3. Further studies were directed by Congress in resolutions adopted by the Committee on Rivers and Harbors, House of Representatives, on 1 April 1936 and 28 April 1936, and by the Committee on Commerce, United States Senate, on 18 January 1939. In response to those resolutions, an interim report on Allatoona Dam was submitted to Congress in 1940. That report, published in House Document No. 674, 76th Congress, 3rd session, recommended the construction of Allatoona Dam and Reservoir as a dual purpose flood-control and power project with an estimated total storage capacity of 630,000 acre-feet to be utilized as follows: flood-control storage, 422,500 acre-feet between elevations 821 and 855; power storage, 182,500 acre-feet between elevations 771 and 821; and dead storage, 25,000 acre-feet below elevation 771.
4. Construction was authorized in the Flood Control Act of 18 August 1941, now known as Public Law No. 228, 77th Congress, 1st session, H. R. 4911. In December 1941, the district engineer submitted to the Chief of Engineers a report entitled "Definite Project Report, Allatoona Dam and Reservoir, Etowah River, in the Alabama-Coosa River Basin, Georgia", and work was initiated on plans and specifications. The proposals presented in the definite project report were substantially in agreement with those in the interim report except that the estimated total storage was increased to 722,000 acre-feet by raising the full flood-control pool from elevation 855 to elevation 860. This total storage was allocated as follows: flood-control storage, 212,000 acre-feet between elevations 848 and 860; power storage, 456,000 acre-feet between elevations 788 and 848; and dead storage, 54,000 acre-feet below elevation 788.

5. During the period of preparing final plans and specifications which followed the submission of the definite project report, a number of changes were made in the design of the structure which will not be enumerated in this manual.

6. Actual construction was delayed because of World War II. Upon cessation of hostilities, steps were immediately taken to start construction and work was initiated 8 February 1946, using hired labor. The contract for the construction of the main dam was awarded on 29 April 1946 to National Constructors, Inc. The main dam was essentially complete late in 1949, and filling the reservoir commenced 27 December 1949.

7. Shortly after construction started, the storage allocation was reconsidered and the Office, Chief of Engineers, in 4th Ind. dated 21 October 1946 to letter from OCE dated 6 May 1946, subject "Storage Allocation for Flood Control in Allatoona Reservoir, Etowah River, Georgia", set the top of power pool at elevation 835, with estimated storages of 389,000 acre-feet between elevations 835 and 860 allocated for flood control and 253,000 acre-feet between elevations 800 and 835 reserved for power generation. The dead storage below minimum power pool, elevation 800, was estimated at 80,000 acre-feet.

8. The storage curve from which the values in the preceding paragraphs were taken was revised in 1950 as a result of more detailed data. According to this revised curve the total storage in the reservoir at elevation 860 is 670,050 acre-feet. Of this total, 587,160 acre-feet between elevations 860 and 800 is usable storage and 82,890 acre-feet below elevation 800 is dead storage.

9. Studies made in 1952 showed that the over-all benefits from the project could be increased appreciably by varying the storage allocations in the reservoir on a seasonal basis. Raising the top of power pool during the summer with a compulsory drawdown prior to the flood season would result in considerable increase in power revenue with no reduction in flood-control benefits. An operating plan based on seasonal variation of storage allocations was approved by the Office, Chief of Engineers, in 2nd Ind. dated 27 November 1956 to letter from the Mobile District dated 2 November 1956, subject "Seasonal Variations of Storage Allocations in Allatoona Reservoir". Under this plan the top of power pool is at elevation 840 during the months May through August, varies from 840 to 820 during September through December, and from 820 to 840 during January through April. The flood-control storage at elevation 840 is 302,580 acre-feet and at 820, 489,060 acre-feet; and the power storage is 284,580 acre-feet at elevation 840 and 98,100 acre-feet at elevation 820. ~~The curve delineating the top of power pool is shown on chart 11.~~

9a. In 1967 another study of the top of power pool was made to determine the desirability of allowing the pool level to remain at elevation 840 until the end of September whenever flow conditions are favorable. Such an operation would be particularly desirable from the standpoint of recreation and would provide some benefits to power, low-flow control and navigation. Another change considered was the elimination of the sharp drawdown and immediate refilling in late December and early January. The study showed that the changes could be made without depreciating flood control benefits. On 28 March 1968 the Chief of Engineers approved a revised top-of-power-pool curve which has a top level at elevation 840 during the months May through September, varies uniformly from 840 to 823 during October through 15 December, remains at elevation 823 from 15 December through 15 January then varies uniformly from 823 on 15 January to 840 at the end of April. The flood-control storage at elevation 823 is 467,280 acre-feet and the power storage is 119,880 acre-feet. The curve delineating the top of power pool is shown on chart 11.

DESCRIPTION OF PROJECT

10. Location. Allatoona Dam and Reservoir are situated on the Etowah River in northwest Georgia in the position shown on charts 2 and 20. The dam is in Bartow County and is 48 miles upstream from Rome, 4 miles east of Cartersville, and about 40 miles northwest of Atlanta, the capital and principal city of Georgia. The reservoir lies within Bartow, Cherokee, and Cobb Counties.

11. Purpose. Allatoona is a multiple-purpose project with principal purposes of flood-control and power. It reduces flood heights on the lower Etowah River and, in particular, at Rome, Georgia, where the Etowah and Oostanaula Rivers join to form the Coosa. It also reduces flood inflows to the reservoir formed by the Alabama Power Company's Weiss Dam on the Coosa River, 60 miles below Rome. In producing hydro-electric energy the project operates as a peaking power plant. Other project benefits include regulation of stream flow, public recreation, and fish and wildlife conservation. The increased flow in low-flow seasons increases power production at the Alabama Power Company plants on the Coosa River and aids navigation on the Alabama River.

12. General features. The project consists of a concrete gravity-type dam with gated spillway, supplemented by earth dikes, a 74,000-kw power plant and appurtenances and a reservoir extending about 28 miles up the Etowah River at full summer-level power pool. Principal features of the project are described in detail in subsequent paragraphs.

13. Dam and reservoir. The dam is a concrete gravity-type structure with curved axis convex upstream, having a top elevation of 880 msl and an over-all length of approximately 1,250 feet. The maximum height above the existing river bed is 190 feet. A roadway 18 feet wide is provided across the entire length of the dam. Sections and plan of the dam and appurtenant works are shown on chart 1.

14. The reservoir formed by Allatoona Dam has a total storage capacity of 670,050 acre-feet at full flood-control pool, elevation 860 msl. At this elevation the reservoir covers an area of 19,201 acres. At full summer-level power pool, elevation 840 msl, the reservoir covers 11,862 acres and has a total storage capacity of 367,470 acre-feet; at minimum power pool, elevation 800 msl, the area covered is 3,251 acres and the capacity is 82,890 acre-feet. Area-capacity curves are shown on chart 4 and selected area-capacity values are tabulated on chart 5. The total area within the taking line, 39,386 acres, is outlined on chart 3.

15. Spillway. The spillway section of the dam, with crest at elevation 835, has a total length of 500 feet, a net length of 400 feet, and a discharge capacity of 184,000 cfs at elevation 860, full flood-control pool. It is equipped with 11 tainter gates of which 9 are 40 feet wide by 26 feet high and 2 are 20 feet wide by 26 feet high. Top of gates in the closed position is at elevation 860, full flood-control pool. Protection against erosion below the spillway is provided

by a concrete apron which will produce the depth required for a hydraulic jump at a discharge of about 65,000 cfs. The spillway rating curves are shown on chart 6.

16. Sluices. Four sluices, 5'-8" wide by 10'-0" high, and one sluice with a 48"-diameter Howell-Bunger valve are provided for those occasions when it is necessary to release water other than through the turbines and the pool level is such that the required discharge cannot be maintained through the crest gates. Total sluice capacity with the pool at spillway crest, elevation 835, is 16,750 cfs. Rating curves for the sluices are shown on charts 7 and 8.

17. Powerhouse and penstocks. The powerhouse and the power intake section are located on the left bank of the stream. Two 36,000-kw main units and one 2,000-kw service unit are installed, making a total power installation of 74,000 kw. The water is carried to the turbines through steel-lined penstocks and controlled by hoist-operated tractor-type gates. The penstock to the service unit is 5-1/2 feet in diameter, and those to the main units are 20 feet in diameter to the elbow under the switchyard where they are reduced to 18 feet to enter the powerhouse. For the future installation of an additional 36,000-kw unit, water passages and space for the turbine, generator, and auxiliary equipment are provided. Rating curves for turbine discharge are shown on charts 9 and 10.

18. Switchyard and transformer substation. The switchyard and transformer substation occupies the area between the dam and powerhouse, the main transformer gallery with deck at elevation 736 being immediately adjacent to the upstream wall of the powerhouse and the switchyard deck at elevation 744 adjoining the downstream face of the dam. There are two banks of three 45,000-kva, 13.8/115-kv single-phase transformers and full provision has been made for the installation of an additional bank of three transformers. Two busses have been installed in the switchyard complete with switching equipment, protective devices, relays, and accessories which will ultimately extend over three transformer bays and four line bays. At present, the busses extend over only two transformer bays and two line bays. A 3-phase 2,500-kva, 2.3/115-kv transformer with its accessory equipment is located at the spillway end of the bus nearer the powerhouse. This transformer is fed from the bus as a source of station service when the service unit is not in operation or feeds to the bus when surplus power is available from that unit.

19. Earth dikes. Along the western rim of the reservoir between the drainage basin of Allatoona Creek, which empties into the Etowah River upstream from the dam, and the drainage basin of Pumpkinvine Creek, which empties approximately 5 miles below the dam, are three low saddles. In order to prevent overflow into the Pumpkinvine Creek drainage basin, it was necessary to construct earth dikes at these locations. These dikes are designated on chart 2 as plug dam, saddle dike No. 1, and saddle dike No. 2. Built along the abandoned line of the Nashville, Chattanooga, and St. Louis Railroad, which runs close

to the divide, the dikes have been constructed to elevation 875 with a 12-foot top width and side slopes of 1:3 on the water side and 1:2-1/2 on the land side. The side facing the reservoir is completely covered with 2 feet of dumped riprap on a 1-foot gravel blanket. The total length of the two dikes is about 4,200 feet. The plug dam is of the same construction.

20. Acworth subimpoundment. This development is situated on the Proctor Creek arm of Allatoona Reservoir, as shown on chart 2, and serves the reservoir programs for recreation, conservation of fish and wildlife, and road relocation. The subimpoundment dam stabilizes a lake of 325 acres and provides a road across Allatoona Reservoir, connecting Acworth with U. S. Highway No. 41. The dam is 1,500 feet long and consists of earth fill with a 60-foot concrete spillway flanked on each side by concrete non-overflow sections 61 feet long, which form a transition and connection between the earth fill and spillway. The maximum height of the earth fill is 45 feet and the slopes are paved with 1 foot of dumped riprap on a 6-inch gravel filter blanket. The ungated spillway has its crest at elevation 848 and is bridged in a single span by the road crossing the dam. Stilling action at the toe is accomplished by means of a bucket which deflects the water upward. Two 24-inch sluices, one at each end of the spillway, are provided to fluctuate the upper pool during low flow for mosquito control and to drain the reservoir if required.

21. Recreational development. The master plan for the recreational development of the Allatoona project was prepared by the Corps of Engineers and coordinated with other Federal agencies and with State, County and Municipal governments who are sharing in its development. Two State parks, two County parks and seven commercial boat dock concessions are being operated on the reservoir under license agreements. The Acworth subimpoundment, with a constant-pool level, is licensed to the Acworth Lake Authority which is operating this area as a public park.

22. Other areas, designated for second, third, and fourth priority use, have been leased to organized non-profit groups, semi-public organized groups and to private clubs and individuals. Private cottage sites, formerly leased to individuals, have been offered for sale and about 90 percent have been sold.

23. Additional development has been provided by the Corps of Engineers at sixteen public access areas to meet the increased demands for picnicking, camping, sight seeing, boating, and fishing. A tract on the north bank has been licensed to the Georgia State Game and Fish Commission for an upland game conservation area.

24. The recreational development plan on chart 3 shows the distribution of recreational areas around the reservoir. Other areas will be developed as public needs are demonstrated and funds become available.

EXTENT OF CONTROL

25. Drainage area controlled and area affected by reservoir operations for flood control. Allatoona Reservoir controls the runoff from the entire Etowah River drainage basin above the dam, an area of 1,110 square miles. Below Allatoona, the Etowah River flows 48 miles to Rome, Ga., where it joins the Oostanaula River to form the Coosa River. From Rome, the Coosa River flows 286 miles to combine with the Tallapoosa River and form the Alabama River. Descriptions of these river basins are given in the main section of this manual, including stream patterns and slopes, drainage areas, topography, geology, population, economic development, precipitation and runoff characteristics, flood characteristics, areas inundated, flood damages, and river developments. The area which may be appreciably affected by flood-control operations at Allatoona Reservoir includes the lower 48 miles of the Etowah River flood plain between the dam and Rome (6,000 acres cleared; 1,800 acres wooded); Rome itself, the urban focus for flood-control operations at Allatoona; and the upper portion of the Coosa River flood plain between Rome and the Alabama Power Company's Weiss Dam (14,100 acres cleared; 9,200 acres wooded). The 1,110 square miles of drainage area controlled at Allatoona amounts to about 60 percent of the total Etowah River drainage area of 1,860 square miles at Rome, 28 percent of the combined total Etowah and Oostanaula River drainage area of 4,010 square miles at Rome, and 21 percent of the total Coosa River drainage area of 5,270 square miles above Weiss Dam. Drainage areas at other principal points and tributary junctions in the area influenced by Allatoona are listed in table 1.

26. Degree of control. The only other flood-control developments affecting the area influenced by Allatoona are the local levee project along the Coosa and Oostanaula Rivers which protects the Fourth Ward in Rome, and Weiss Dam on the Coosa River at Leesburg, Ala., near the lower limit of the area appreciably affected by flood-control operations at Allatoona. Both of these projects are described briefly in the main section of this manual; Weiss Dam is described in more detail in Appendix B. The extent to which Allatoona can provide protection from a given flood depends, of course, on the storm distribution and flood characteristics. In other words, it depends on the amount of rainfall in the basin above Allatoona and the extent to which the corresponding runoff would contribute to flooding on the lower Etowah River at Rome and on the upper Coosa River. Protection on the lower Etowah is most effective because of the large portion of the drainage area controlled. Protection of Rome by Allatoona Reservoir depends largely on the respective contributions of the Etowah and Oostanaula Rivers, being most effective when the Etowah runoff would be almost entirely responsible for producing the flood at Rome and least effective when the Oostanaula plays the dominant part. The effectiveness of control at Rome would be reflected downstream on the Coosa River. Floods on the Coosa River above Gadsden usually have an early peak from local runoff followed by the flood peak from Rome which forms a second and higher peak in the case of a predominantly upstream flood or a shoulder on the recession side of the flood hydrograph in the case of a predominantly downstream flood. In the former case, operations at Allatoona may cause significant reductions in Coosa River peak stages well below Rome; in the latter case they may merely reduce the duration of flooding on the recession side.

27. Magnitude of floods controlled at Allatoona Reservoir. The regulation plan for Allatoona Reservoir and examples of regulation are discussed in the next section. Had the project been thus regulating the flow of the Etowah River for power and flood control from the beginning of records in 1891 until actual operations commenced in December 1949, the highest pool level attained would have been elevation 860.0 in December 1932. During the 12 year period the project has been in operation, the pool level reached a maximum elevation of 853.4 in March 1961. The allocated flood-control storage between pool levels 840 and 860 (302,580 acre-feet or 5.11 inches of runoff) would completely control at the dam a flood with ordinates equal to 52 percent of the standard project flood ordinates. If the initial pool were at elevation ~~820~~ (storage to elevation 860, ~~489,060~~ acre-feet or ~~8.26~~ inches of runoff) a flood equal to ~~84~~ percent of the standard project flood could be completely controlled at the dam. The standard project flood occurring on full summer-level power pool, elevation 840, would be reduced to a maximum outflow of 50,500 cfs as compared to a natural peak at the dam site of 147,000 cfs. The record flood occurred on 8 January 1946 and had a natural peak of 40,400 cfs or about 27 percent of the standard-project-flood peak. Since the beginning of operations, the peak inflow, 49,300 cfs, occurred on 21 February 1961 and equaled 28 percent of the standard project flood peak inflow.

Table 1

Drainage areas of Coosa River system above Weiss Dam, Ala.

COOSA RIVER				
River miles below confluence of Etowah & Oostanaula Rivers	Point on river	Drainage area in sq. miles		
0	Confluence of Etowah & Oostanaula, Rome, Ga.	4,010		
60.0	Weiss Dam	5,270		
OOSTANAULA RIVER				
River miles above mouth	Point on river	Drainage area in sq. miles		
0	Junction, Etowah River, Rome, Ga.	2,150		
0.35	U.S.G.S. & U.S.W.B. gages, 5th Ave., bridge, Rome	2,150		
43.16	U.S.G.S. gage, Resaca, U. S. Hwy. 41	1,610		
46.95	Confluence of Conasauga & Coosawattee Rivers	1,596		
ETOWAH RIVER AND TRIBUTARIES				
River miles above mouth	Point on river	Tributary	Drainage area in square miles	
			Tributary	Etowah
0	Junction, Oostanaula River, Rome, Ga.	---	---	1,860
0.53	Below junction, Silver Creek	Silver Cr.	48	1,859
0.90	U.S.G.S. gage, 2nd Ave., Rome	---	---	1,811
1.80	U.S.G.S. gage, Sou. R.R. Bridge, Rome	---	---	1,810
7.42	Below junction, Dikes Creek	Dikes Cr.	17	1,790
9.38	Below junction, Spring Creek	Spring Cr.	33	1,769
14.42	Below junction, Barnsley Creek	Barnsley Cr.	16	1,722
19.74	Below junction, Conesena Creek	Conesena Cr.	16	1,699
20.29	Below junction, Two Run Creek	Two Run Cr.	51	1,681
21.50	C. of E. gage, Kingston	---	---	1,630
30.50	C. of E. gage, Euharlee	---	---	1,595
30.86	Below junction, Euharlee Creek	Euharlee Cr.	180	1,595
34.44	Below junction, Raccoon Creek	Raccoon Cr.	58	1,410
38.20	C. of E. gage, Cartersville, State Hwy. 61	---	---	1,330
38.65	Below junction, Nancy Creek	Nancy Cr.	56	1,330
41.89	Below junction, Pumpkinvine Creek	Pumpkinvine Cr.	140	1,263
47.00	C. of E. gage, Allatoona	---	---	1,110
47.86	ALLATOONA DAM	---	---	1,110
48.20	Below junction, Allatoona Creek	Allatoona Cr.	81	1,110
49.00	Below junction, Stamp Creek	Stamp Cr.	48	1,028
63.50	Below junction, Little River	Little R.	215	944
-	(U.S.G.S. gage, Roswell, State Hwy. 140)	Little R.	60	---
72.07	Below junction, Shoal Creek	Shoal Cr.	64	706
79.21	U.S.G.S. gage, Canton, Waleska St.	---	---	605
93.39	Below junction, Sharp Mtn. Creek	Sharp Mtn. Cr.	76	570
98.85	Below junction, Long Swamp Creek	Long Swamp Cr.	75	466
104.93	Below junction, Settingdown Creek	Settingdown Cr.	50	367
118.31	Below junction, Amicalola Creek	Amicalola Cr.	92	268
128.64	U.S.G.S. gage, Dawsonville	---	---	103

REGULATION PLAN

28. General. Normally, the Allatoona project will be operated as a peaking plant for the production of hydroelectric power and during off-peak periods will maintain a flow of about 200 cfs through the service unit. During low-water periods such regulation will provide increased flow downstream for navigation, water supply, pollution abatement, and other purposes. Storage allocated for power varies seasonally from ~~98,196~~ ^{69,880} acre-feet to 284,580 acre-feet between a minimum elevation of 800 and a top-of-power-pool elevation varying from ~~820~~ ⁸²³ to 840. However, the primary purpose of the project is flood control and a storage varying from 302,580 acre-feet to ~~489,060~~ ^{467,280} acre-feet between top of power pool and elevation 860 has been reserved exclusively for the detention storage of flood waters. The flood control operation of the reservoir is planned for the alleviation of floods along the lower Etowah River and particularly for the reduction of flood stages at Rome, Ga. Prior to completion of Weiss Dam in 1961, the stage reductions at Rome resulting from operation of Allatoona were reflected as far downstream as Gadsden, Ala. In future floods these reductions will have the effect of reducing the inflow to Weiss Reservoir, thus adding to the downstream stage reductions effected by the flood-control operation of that project. In addition to regulation for power and flood control, the pool may be regulated slightly for a brief period in the spring as part of operations for mosquito control.

29. Reservoir operation for power. In general, the Corps of Engineers will operate the Allatoona power plant as scheduled by the Georgia Power Company under terms of a contract negotiated and administered by the Southeastern Power Administration. The entire output of the plant, except that needed for station service, will be delivered to the company on its 115-kv line in the Allatoona station switchyard. The power company delivers most of this power to certain preference customers of the Government (municipalities, counties or REA cooperatives) in the area. The contract concerns 5 Corps of Engineers projects: 2 in the Savannah District, Hartwell Dam and Clark Hill Dam on the Savannah River; and 3 in the Mobile District, Allatoona Dam, Buford Dam on the Chattahoochee River, and Walter F. George Lock and Dam, also on the Chattahoochee River. Allatoona and Buford are considered as one project under the contract.

30. Portions of the contract pertinent to the operation of the project are quoted below:

"Section 1. Capacity To Be Made Available.

"1.1 The Government will make available to the Company and the Company will accept delivery of dependable capacity for the purposes specified in this contract as follows:

<u>Project</u>	<u>Dependable Capacity</u>
Allatoona-Buford	160,000 kilowatts
Clark Hill	141,000 kilowatts
Hartwell	124,000 kilowatts
George	<u>72,000 kilowatts</u>
Total	497,000 kilowatts

"1.2 The Government's commitment to make dependable capacity available shall be subject at particular times to restrictions on generation at Allatoona or at Buford by the Corps of Engineers for flood control purposes, and, during such particular times, the quantity of minimum energy made available under subsection 2.1 from Allatoona-Buford will be reduced to that quantity of energy that can be generated from the water which the Corps of Engineers allows to be released during the peak period hours.

"1.3 In addition to the dependable capacity made available under subsection 1.1, the Government will make available to the Company each week as defined in paragraph (a) of subsection 2.3 during the respective months listed below nondependable capacity when such capacity in the opinion of the Government is available at the projects and the Company will accept delivery of such nondependable capacity as follows:

<u>Month</u>	<u>Non-Dependable Capacity (kilowatts)</u>		
	<u>Allatoona-Buford</u>	<u>Clark Hill</u>	<u>Hartwell</u>
May	9,000	8,000	8,000
June	18,000	16,000	16,000
July	18,000	16,000	16,000
August	18,000	16,000	16,000
September	9,000	8,000	8,000

Any week which falls within two months shall, for the purpose of determining the amount of non-dependable capacity to be made available, be considered to be completely within the month in which Wednesday of such week falls. When less than the amount of non-dependable capacity specified is available for a particular month or a portion thereof, such quantity of non-dependable capacity as is available at any particular time during such month up to the specified amount will be made available to the Company.

"1.5 Irrespective of the listing of capacity and energy quantities separately for the respective projects in subsection 1.1, 1.3, 2.1 and 2.2, the commitment to make such capacity and accompanying energy available is nevertheless an over-all commitment and may be met from the totality of the resources referred to in Section 1; provided, however,

that the totality of power supplied by the Projects shall be in conformity with the summation of the hourly deliveries scheduled by the Company in accordance with the provision of subsection 2.4.

"Section 2. Energy To Be Made Available.

"2.1 Except as provided in subsection 1.2 and 9.2, there shall be made available to the Company from the Projects each week, minimum declarations of energy during respective months, as follows:

<u>Month</u>	<u>Allatoona-Buford</u> (mwh)	<u>Clark Hill</u> (mwh)	<u>Hartwell</u> (mwh)	<u>George</u> (mwh)	<u>Total</u> (mwh)
January	3,800	3,200	2,800	3,500	13,300
February	2,900	3,500	1,800	3,000	11,200
March	3,100	3,500	1,500	3,100	11,200
April	3,000	3,600	1,500	3,100	11,200
May	4,000	3,600	3,700	1,500	12,800
June	4,500	3,600	4,400	2,500	15,000
July	4,900	4,400	4,000	2,900	16,200
August	5,600	4,800	5,200	3,700	19,300
September	4,500	3,900	4,400	2,700	15,500
October	3,500	3,800	4,200	2,200	13,700
November	3,600	3,800	3,600	2,400	13,400
December	4,800	4,100	2,200	2,200	13,300

Any week which falls within two months shall, for the purpose of determining the minimum energy to be made available, be considered to be completely within the month in which Wednesday of such week falls. If releases to meet stream flow requirements are necessary in addition to power releases scheduled, the Government shall make available to the Company and the Company shall take all of the energy at Allatoona-Buford, one-half (1/2) of the energy at Clark Hill, one-half (1/2) of the energy at Hartwell, and one-half (1/2) of the energy at George generated from such releases.

"2.2 The Government shall determine when energy in excess of minimum is available for declaration and shall make available to the Company, and the Company shall accept subject to the provisions of subsections 1.2 and 1.5, declarations of such energy so that at each Project total declarations (including minimum) plus any on-peak energy generated from releases to meet stream flow requirements as provided in subsection 2.1 will equal up to the total quantity of energy that can be generated during the 100 peak period hours of a week (or during any portion thereof remaining at the time a revised declaration becomes effective) with the total machine capability available by days at Allatoona and at Buford, respectively, one-half (1/2) of the total machine capability available by days at Clark Hill and at Hartwell, respectively, and one-half (1/2) of the total machine capability or such lesser amount as is available by days at George in excess of the dependable capacity commitment to customers of the Government in

Alabama, during the declaration period; provided, however, that any capacity utilized to make transfers to Jim Woodruff Project or to permit the Government to furnish standby capacity to the Alabama Electric Cooperative, Incorporated, pursuant to its contract with the Cooperative dated June 28, 1961, shall, for the days actually so utilized, be subtracted from the total capability available for the purpose of determining maximum declarations of energy which the Government shall make available and which the Company shall accept under this subsection 2.2; provided further, that the Company will not be required to accept with the capability hereinbefore made available to the Company at the Clark Hill, Hartwell, and George Projects, more than one-half (1/2) of the excess energy available in any week at any of the said three projects; provided further, that if additional excess energy is available at any of said three projects during any week which cannot be sold to other customers, the Government will make such energy available to the Company and the Company may accept any part or all of such excess energy but shall be required to accept only that amount determined by multiplying the number of additional kilowatts of capacity which the Government can make available to deliver such energy by 80 hours per week (14 hours per day, Monday through Friday, inclusive, and 10 hours on Saturday); provided further, that the Company shall not be required to accept capacity at any of said three projects above an amount which can be transmitted by the Company, in its sole judgment, without impairing service to its customers; provided further, that the acceptance of additional excess energy shall not affect the maximum declarations within the capacity limitations which the Government could make available and which the Company would be required to accept in the absence of the provisions to purchase additional excess energy; provided further, that the additional capacity made available to deliver additional excess energy shall not be used by the Company, except as provided immediately above or upon consent of the Government, to schedule other energy made available to the Company hereunder. Declarations of excess energy shall be made for periods not shorter than the remainder of the week in which they become effective but such declarations may be increased with respect to quantities at any time and may be decreased as provided herein for transfers to Jim Woodruff or to permit the Alabama Electric standby operation or upon mutual consent of the parties. Declarations and revisions shall become effective as agreed between the operating representatives of the Government and the Company but within a period of not in excess of twelve (12) hours.

"2.3 (a) Under this contract, the seven-day week shall commence at the beginning of Saturday and extend to the end of Friday. The peak period shall be the one hundred (100) hours designated by the Company of each said seven-day week.

(b) The Company hereby designates the hours between 7:00 a.m. and 10:00 p.m., Eastern Standard Time, on Saturday, between 9:00 a.m. and 2:00 p.m., Eastern Standard Time, on Sunday, and between 7:00 a.m. and 11:00 p.m., Eastern Standard Time, during each of the five days, Monday through Friday, inclusive, as being the peak period

for initial operation under this contract. The Company shall have the right to change the peak period hours from time to time at intervals of not less than four months by giving the Government ten (10) days' prior written notice of such change; provided, that any redesignated peak period shall include at least five (5) hours on Sunday.

"2.4 Energy declarations made in accordance with subsections 2.1 and 2.2 shall be scheduled for the respective Projects by the Company during the period for which they are made; provided that, the Government may require, solely for the purpose of meeting stream flow requirements, up to fifteen (15) percent of the total minimum energy made available under subsection 2.1 to be scheduled from the Projects designated by the Government during any of the five days, Monday through Friday, inclusive. Schedules for the respective Projects showing hourly quantities of declared and storage energy to be delivered shall be furnished by the Company to the Government's designated operating representative for each declaration period. Subject to the provisions of subsection 1.5, energy shall be taken by the Company in accordance with the provisions of Section 18. Schedules may be revised by the Company at any time and schedules or revisions thereof shall become effective upon reasonable notice.

"2.5 Whenever the Government, in the sole discretion of the Administrator, has dump energy available at Allatoona-Buford, the Government will offer said dump energy to the Company and the Company, in its sole discretion, may accept or reject it. ***** Upon acceptance, dump energy will be delivered as agreed between the parties' operating representatives *****. Such energy deliveries shall be scheduled separately from energy delivered under other provisions of this Section 2.

"2.6 The operating representatives of the parties hereto shall keep each other regularly informed as to water releases, reservoir elevations, rainfall, load pattern, and other operating conditions pertinent to this contract.

"Section 9. Supply By Company Beyond Supply By Government.

"9.2 When in the opinion of the Government water conditions at any of the Projects are such that it is desirable to deliver less than the minimum energy specified in subsection 2.1 and it is therefore desirable to have the Company replace such quantity of minimum energy not delivered by Government by furnishing additional deficiency energy to meet the loads of the Government's preference customers as provided in subsection 9.1, the Company agrees to supply to the Government's preference customers at the Government energy rate additional deficiency energy equal to the quantity of minimum

energy not delivered by Government, less seven (7) percent losses, if available in the Company's system or if it can be acquired by the Company from other sources;

"Section 18. Energy Storage

"18.1 The Government will permit the Company to utilize, as herein provided, unused storage in the Projects' reservoirs. For this purpose, a storage account shall be maintained and the operating representative of the Government shall keep the official record of such account.

(a) At the request of the Company, the Government will store declared energy for the Company in any unused storage capacity available for such purpose in the reservoirs and will deliver energy which the Company has in storage as scheduled by the Company in accordance with the provisions of subsection 2.4.

(b) When delivery of energy to the Company is different in any day than the quantities shown in the current schedule of daily quantities over the declaration period, such difference shall be considered to be energy placed in or withdrawn from storage. If inadvertent deviations from schedule result in a negative balance in the Company's storage account, such energy shall be returned by the Company as expeditiously as possible. The exact amount of charge or credit for each day for each reservoir shall be agreed upon between the operating representatives of the parties hereto.

"18.2 In the event it becomes necessary for the Government to spill water from a reservoir over the spillway or through the sluice gates as a means of keeping such reservoir under proper control, the kilowatt-hours which could have been produced from such water at the time of the spill, as determined by the Government, shall be deducted proportionately from any credits then existing in storage accounts of the Company and other customers. The necessity for spilling water shall be determined by the Government.

"18.4 Deliveries of electric capacity and energy to the Company or reduction in deliveries for the purpose of storing energy under the terms of this Section 18 shall in no way interfere with the operation of the reservoirs for purposes other than electric energy production, as determined solely by the Government."

31. Energy and capacity declarations are made each week by the Corps of Engineers in accordance with the terms of the contract. The portion of the total energy and capacity commitment to come from each of the two projects, Allatoona and Buford, is based on reservoir elevations at the time, expected inflows during the week for which the declaration is made, and stream flow conditions below the projects. A storage delineation curve which shows the seasonal variation in the top of power pool is shown on charts 11 and 14. This curve is a firm division between the power and flood-control pools and normally the reservoir level will be maintained at or below the curve except when storing flood waters. Chart 14 also shows a guide curve for power operations which has been prepared for use in scheduling power generation at Allatoona. The guide curve, developed from a study of past stream-flow records and present power contract requirements, is used principally to indicate when excess energy is available and when power declarations should be limited to minimum contract commitments. Generally, excess energy (above minimum contract requirements) will be declared only when the reservoir level is above the guide curve. However, the contract discussed in paragraphs 29 and 30 ties Allatoona in with other projects in the Mobile District and South Atlantic Division and makes it part of a system for power scheduling purposes. Therefore, there may be circumstances which make it desirable to declare excess energy at Allatoona when it is below the guide curve as long as other reservoirs in the system have excess energy in storage. The compulsory drawdown each year is to elevation ~~820~~⁸²³ and amounts to ~~186,480~~^{164,700} acre-feet. The maximum drawdown is to elevation 800, the minimum power pool level.

32. Operation during periods of low flow at Rome. When flow from the Oostanaula River is extremely low, the rapid rise in the Etowah River at Rome resulting from a heavy power release at Allatoona will cause a temporary reversal of flow in the lower Oostanaula River. The duration and extent of the reverse flow depends on the magnitude and duration of the Allatoona power release and the amount of flow coming down the Oostanaula. Under extreme conditions the reverse flow will extend upstream above the pumping station intake of the Rome water works, 1.3 miles above the mouth of the Oostanaula. Operations at Allatoona should be planned to avoid such a situation because of sewage outlets emptying into the Oostanaula below the water intake, the closest one being about 300 feet downstream.

33. A study was made of the rate of rise at Rome resulting from various power operations at Allatoona and the minimum flow required from the Oostanaula to supply the backwater storage in each case. The study indicated that as long as the Oostanaula flow is greater than 2200 cfs there is little likelihood of any flow reversal in the lower Oostanaula regardless of the power operation at Allatoona. Also, a flow in the Oostanaula as low as 400 cfs is sufficient to supply the required backwater storage for a rise caused by peaking operations at Allatoona of one hour with both units, or up to 3 hours operation with one unit. A schedule of peaking power operations that should not

be exceeded during periods of low flow on the Oostanaula River is shown in paragraph 48.

34. It is expected that this problem of flow reversal in the Oostanaula River will be alleviated considerably when Carters Dam goes into operation. Carters, now under construction and scheduled for completion in 1968, is located on the Coosawattee River, a tributary of the Oostanaula, 73.8 miles above Rome. The peak effects of daily power releases from Carters have been estimated to arrive at Rome during the trough of the Allatoona power waves. This will improve flow conditions at Rome except on Monday when the Allatoona power wave will arrive at Rome after a week-end shut-down at both projects. The estimated effect of Carters power releases at Rome is shown on chart 24.

35. Mosquito-control operations. The need and extent of mosquito-control operations at Allatoona Reservoir are determined by regular inspections of potential breeding areas by project personnel. These operations consist of larviciding during the mosquito production season from about May through September, control of plant growths by use of herbicides, drift removal and water level management to the extent compatible with other project functions. In late winter or early spring if the pool level is above elevation 840 due to storage of flood waters, it may be held about 2 feet above the normal summer operating level for several days and then lowered to top of power pool. This will strand the drift on the banks to be burned when it is sufficiently dry. If inflows later in the spring are sufficient the pool will be raised to about elevation 840 by 1 May and held as near constant at that level as stream flow and power operations will permit until 30 June. Generally, power operations will cause a gradual drawdown after 30 June. This drawdown will eliminate the major portion of mosquito production areas as the water moves away from the annual growths of weeds and grasses, leaving a comparatively clean shoreline.

36. Fish and wildlife management. Water level management, as outlined in the preceding paragraph for mosquito control, will also be beneficial to game fish production. If the pool can be held fairly constant at about elevation 840 from the first of May through the end of June, it will cover the major portion of the spawning season of large mouth and small mouth bass and will prevent dewatering of spawning beds of these two game fishes. The relatively constant pool elevation during this period will also be beneficial to the production of other game fishes such as crappie, white bass, shellcracker, war-mouth and sunfishes.

37. Basic method of flood-control regulation. Operation of the project for flood control is in accordance with instructions issued by the Reservoir Regulation Section in the Mobile District Office and releases depend on the Allatoona pool level and on stages forecast for the Etowah River below Allatoona Dam and for Rome. The permissible releases for various conditions are listed in the regulation schedule, chart 12, and represent, as long as flood-control storage is available,

the estimated maximum releases which may be made without contributing to above bankfull stages on the lower Etowah River or at Rome. During the rising phase of a flood, normal power operation as a peaking plant will be permitted unless predictions indicate that the power releases when combined with flows from the uncontrolled drainage area would cause or aggravate damaging flood stages along the lower Etowah River and at Rome. In that case, power operations will be curtailed or, if necessary, limited to the service unit alone in order to provide as much flood protection as possible.

38. When reservoir inflows cause the pool to rise above the top of power pool, normal power operations may be continued as scheduled by the Georgia Power Company under the terms of the contract, unless modified by the Corps of Engineers for flood-control. When the flood is receding downstream, the water in flood-control storage above the top of power pool will be released in accordance with the rules on chart 11 without exceeding bankfull capacity downstream. The channel capacity below Allatoona has been determined through actual operating experience to be about 9,500 cfs. When the project went into operation in 1949, the top of power pool was at elevation 835 and the regulation plan called for evacuation of flood waters stored above that level as soon as practicable by releasing at rates not to exceed the downstream bankfull capacity which was estimated at that time to be 12,000 cfs. As discussed in paragraph 9, the top-of-power-pool elevation was changed in November 1956 from 835 to ~~the present~~ ^{the present} seasonally varying level ranging from 820 to 840. At the same time, zones were established above the top of power pool with rules for evacuating the flood storage in each zone. The emptying rates prescribed at that time were the same as those contained in the present regulation plan except for the maximum, which was 12,000 cfs instead of the present 9,500 cfs. A survey and real estate appraisal have been made to determine the acreage involved and the cost of acquiring easements to permit emptying releases up to 12,000 cfs. This higher release rate, which would expedite the evacuation of flood storage, will be necessary to permit operation of the power plant at full capacity when the third generating unit is installed. Until such easements are acquired flood storage will be emptied at a maximum rate of 9,500 cfs. A study of the floods of record showed that an emptying release rate of 9,500 cfs, as compared to the 12,000 cfs rate contemplated in previous regulation schedules, had no diminishing effect on flood-control benefits.

39. Should predictions indicate that anticipated runoff from a storm will appreciably exceed the storage capacity remaining below elevation 860, the flood control operation would be replaced by the induced-surge schedule shown on chart 15. This schedule will accomplish, insofar as practicable within the limits of the induced-surge envelope curve, the following objectives set forth in EM 1110-2-3600:

(1) Peak rates of reservoir release during damaging floods should not exceed peak rates of the corresponding floods that would

have occurred under runoff conditions prevailing before construction of the reservoir.

(2) The rate of increase in reservoir releases during a significant increment of time should be limited to values that would not constitute a major hazard to downstream interests.

40. The use of the induced-surge schedule during floods which would exceed the available flood storage is a departure from the operating plan outlined in the definite-project report. In that report it was stated that, if the flood-control storage became exhausted (pool at elevation 860), the pool level would be maintained at elevation 860.0 by regulating the gates to make outflow equal to inflow until all spillway gates were fully opened, after which the outflow would be uncontrolled until the pool level dropped back to elevation 860.

41. Since the constant-pool method of operation when flood-control storage is exhausted has been abandoned as a policy by the Corps of Engineers, a study of induced-surge operation was made in February 1947 to determine the most desirable plan for Allatoona. Since Allatoona was under construction at the time, induced-surge operation was limited by the pool elevation-gate opening curve, shown on chart 16, so that the maximum pool for the spillway-design flood could be held to a level that would not necessitate major changes in the structure. The plan for induced-surge operation which was adopted as a result of the study has since been refined and replaced by the schedule on chart 15. The gate operating machinery is provided with limit switches which will open the gate in 0.5-foot increments up to a 12-foot opening. Increments for larger openings are at the control of the operator. In following the induced-surge schedule gates will be opened as uniformly as practicable with no gate opening more than 0.5 foot larger than any other gate opening. Routing of the spillway-design flood through the reservoir is shown on chart 37. The maximum pool elevation is 870.3 as compared with 870.2 for the original induced-surge plan and 868.4 for the constant-pool operating plan.

42. Correlation with other projects. The only reservoir in the area affected by the flood-control operation of Allatoona Dam is one formed by the Alabama Power Company's Weiss Dam, 60 river miles below Rome, Ga. The reservoir extends up the Coosa River to Mayo's Bar, about 7 miles downstream from Rome. Generally, flood-control operations at Allatoona and Weiss during the rising phase of a flood will be completely independent of each other. Following a flood, the emptying of flood storage at Allatoona may prolong the time required to evacuate flood storage at Weiss. Insofar as practicable, without depreciating the flood-control value of Allatoona, releases from that project will be made so as to minimize any undesirable conditions that might be created by the emptying operations. The Corps of Engineers and the Alabama Power Company have arranged for regular and rapid exchange of data concerning the two projects. This will permit the fullest coordination of their operations.

43. The only other flood-control project in the area affected by Allatoona is the levee system at Rome, Ga., built by the Corps of Engineers for the protection of the Fourth Ward. The elevation of the top of the levee is 605 feet, msl, corresponding to a stage of 43.3 feet on the Weather Bureau gage on the 5th Avenue bridge across the Oostanaula River. Since practically all flow from the dam will be stopped whenever a stage of 20 feet or higher is expected, there will be the fullest coordination possible between the two projects.

44. Carters Dam, now under construction and scheduled for completion in 1968, will affect the flow of the Oostanaula River at Rome; therefore, its operation will require some coordination with that of Allatoona. Carters is located on the Coosawattee River, a tributary of the Oostanaula, 73.8 miles above Rome. It is a multiple-purpose project with principal functions of flood-control and power. During the rising phase of a flood, the flood-control operations at Allatoona and Carters will be independent of each other. However, the evacuation of flood storage at the two projects must be coordinated so that the combined discharges will not cause or aggravate flooding at Rome. The effect at Rome of routine power operations at the two projects has already been discussed in paragraph 34.

45. Examples of regulation. Regulation of the spillway-design flood has been discussed in paragraph 41. The effects of reservoir regulation on the standard project flood and three floods of record are shown on charts 33 through 36. The three actual floods are the January 1946 flood which produced the highest stages of record on the Etowah River at Canton and Cartersville; the January 1947 flood which produced the second highest stages of record on the Oostanaula River at Resaca and at Rome; and the December 1932 flood which was selected because of its large volume of runoff rather than the stages which it produced.

46. In computing the effect of reservoir regulation on the three actual floods, it was assumed that the initial pool level was at top of power pool. Antecedent power operations were assumed to be typical for the time of year under the terms of the contract discussed in paragraphs 29 through 31. The initial pool for the standard project flood was assumed to be maximum summer level, elevation 840.

REGULATION SCHEDULES

47. Guide curve for power operation. Power operations at Allatoona are scheduled in accordance with the contract discussed in paragraphs 29 through 31. The guide curve for power operation which is used in this scheduling, as discussed in paragraph 31, is shown on chart 14.

48. Power operations during periods of low flow at Rome. The problem of flow reversal in the lower Oostanaula River caused by the Allatoona power waves during periods of low flow was discussed in paragraphs 32 to 34. The following tabulation shows flow conditions on the Oostanaula (in terms of stage at Resaca) and corresponding peaking power operations at Allatoona that may not be exceeded without causing a temporary flow reversal in the lower Oostanaula. The studies on which this tabulation was based showed that the rate of loading the power plant at Allatoona has very little effect on the peak rate of rise of the power wave at Rome.

Power Operations During Periods of Low Flow at Rome

<u>Stage at Resaca in feet</u>	<u>Duration of peaking power operations that may not be exceeded without causing flow reversal on Oostanaula</u>	
	<u>1 unit (4,000 cfs)</u>	<u>2 units (8,000 cfs)</u>
1.5	3 hours	1 hour
2.5	12 hours	4 hours
4.0	16 hours	11 hours
5.0	unlimited	16 hours

49. Mosquito-control operations. Water level management for mosquito control will be scheduled to fit in with power and flood-control operations as described in paragraph 35. In late winter or early spring, if the pool level is above elevation 840 due to storage of flood waters, it may be held near elevation 842 for several days and then lowered to top of power pool in order to strand the drift. The rate of lowering from elevation 842 will be as prescribed in the regulation plan for evacuation of flood storage. If inflows later in the spring are sufficient the pool will be raised to about elevation 840 by 1 May and held as near constant at that level as stream flow and power operations will permit until 30 June. Generally, power operations will cause a gradual drawdown after 30 June. The rate of drawdown will depend on reservoir inflows and power requirements.

50. Fish and wildlife management. The water level management program for mosquito control, outlined in the preceding paragraph, is also beneficial to game fish production. No additional regulation specifically for the benefit of fish and wildlife has been prescribed.

51. Normal flood-control regulation schedule. Chart 11 defines a normal operating zone and 3 flood-control zones with operating rules

that apply to each zone. The normal regulation schedule for flood control showing required operations and permissible releases for various pool elevations and downstream conditions is given in chart 12. In general, this schedule and the operating rules on chart 11 will be used by the Reservoir Regulation Section in formulating the instructions for flood-control operations issued to the resident engineer during each flood as required and during evacuation of flood storage. There may be minor deviations from the evacuation rules when the pool approaches the top of power pool in order to permit realistic scheduling of power generation which is done on a weekly basis.

52. Whenever it is considered appropriate the Reservoir Regulation Section will furnish the resident engineer with estimates of rainfall amounts which would be sufficient to cause flooding with instructions to contact someone in the Reservoir Regulation Section immediately if such rainfall should occur. The main section of this manual contains names and home telephone numbers of personnel in the unit to be contacted outside regular office hours.

53. Emergency flood-control regulation schedule. Normally all flood-control operations will be directed by the district office. However, if a storm of flood-producing magnitude occurs and all communications are disrupted between the district office and Allatoona, the emergency operating instructions given in chart 13 will be followed. If communication is broken after some instructions have been received from the district office, those instructions will be followed for as long as they are applicable, after which the emergency schedule will be used.

54. It will be the responsibility of the resident engineer to obtain the gage readings at Cartersville and Rome by whatever means possible before any power releases are made. The Cartersville gage is located on the downstream side of State Highway No. 61 bridge crossing the Etowah River and the gage at Rome is on the 5th Avenue bridge crossing the Oostanaula River.

55. The critical stages listed in chart 13 for Cartersville and Rome are the natural stages at those points caused by the local inflow from the uncontrolled area with no releases from the dam. They have been selected so that the additional flow of the indicated permissible power releases will not result in stages above bankfull. The average time of travel and rates of rise have been taken into account. Power operations will be curtailed by the resident engineer whenever, in his judgment, they would contribute appreciably to above bankfull stages downstream. Bankfull stage corresponds to a stage of 15 feet on the Cartersville gage and 20 feet on the Rome, 5th Avenue, gage.

56. If it is impossible to obtain stages at Rome and Cartersville, all outflow from the dam will be stopped, except for that through the service unit, until the pool reaches a level which requires releases

according to the induced-surge schedule on chart 15. The operating instructions on chart 15 will be followed whenever applicable.

57. Operating instructions for crest gates and sluices. When it is necessary to release water other than through the turbines, the following instructions apply:

a. If pool is above elevation 835.0 (spillway crest) the discharge will be made preferably through crest gates. Discharge uniformly across spillway (or as nearly so as possible) by setting gates so that no gate opening is more than 0.5 foot larger or smaller than any other gate opening. Gates will be opened in the following order: 11, 1, 6, 8, 4, 10, 2, 7, 5, 3, 9 : this order of operation will be reversed when closing. Gates are numbered in order across the spillway commencing with No. 1 adjacent to the powerhouse.

b. When the pool is above elevation 835.0 and the required discharge cannot be maintained through crest gates, or if pool is below elevation 835.0, it will be necessary to discharge through the sluices. The four 5'-8" x 10'-0" sluices will be opened in steps not exceeding 5 feet so that no sluice is opened more than 5 feet until all sluices are opened that amount. The sluices may be operated in any order.

c. The 48-inch sluice (Howell-Bunger valve) will be used as necessary for close regulation of the discharge.

COMMUNICATIONS AND REPORTING NETWORKS

58. Communications. Communication between the district office and Allatoona is by telephone or two-way voice radio. The radio installation at the dam is part of the Mobile District radio communications network shown in the master manual of reservoir regulation for the Alabama-Coosa basin. For local communications in the reservoir area there is a VHF radio network consisting of the fixed station at Allatoona Dam and 4 mobile stations. This VHF system also provides communications between Allatoona and Buford Dam which has a similar VHF network operating on the same frequency. Reports from the U. S. Weather Bureau are transmitted to the Reservoir Regulation Section either by teletype or telephone. The observers at all reporting rainfall and river-stage stations have access to a telephone and/or a telegraph office.

59. Automatic radio reporting hydrologic network. An automatic radio reporting network has been installed in the Coosa River basin above Rome, Georgia, in connection with the operation of Allatoona Dam. It consists of two rainfall stations, Amicalola and Wahsega, in the headwaters of the drainage basin above the dam; a river-rainfall station at Canton on the Etowah River at the upper limit of the reservoir; a river station at Kingston on the Etowah River below the dam; a river-rainfall station on the Oostanaula River at Resaca; and a river-rainfall station at Rome on the Oostanaula River near its confluence with the Etowah. All of the stations report directly to the Allatoona powerhouse where the data are automatically recorded. The stations report on call and are interrogated at least 6 times a day. The radio reporting network is shown on chart 21.

60. Rainfall reporting network. Rainfall reports are received from 32 stations in or adjacent to the Coosa River basin above Rome, Ga. These stations are listed in table 2 and their locations are shown on chart 20. The station at Rome Airport is a U. S. Weather Bureau airways station and the stations at Amicalola, Wahsega, Dahlonega (nr.), Canton, Rome, Resaca, Carters Dam and Allatoona Dam are operated by the Corps of Engineers. All others, including stations at Canton, Rome, and Resaca, are operated by the U. S. Weather Bureau under the cooperative agreement between that agency and the Corps of Engineers.

61. The stations at Amicalola, Wahsega, Dahlonega (nr.), Canton, Resaca and Rome are automatic radio stations which report to Allatoona powerhouse. The observers at Carters Dam and the Cartersville station report by telephone to Allatoona powerhouse. Reports from all of these stations, as well as reports from the station at Allatoona Dam, are relayed by powerhouse operating personnel to the Mobile District Office by means of the voice radio or by telephone. Reports from the airways station at Rome Airport are received by the Mobile Weather Bureau over one of their regular teletype circuits and relayed to the district office. The observers at all other stations report by telephone or telegram to the U. S. Weather Bureau in Mobile and the

messages are immediately relayed to the district office by telephone or teletype. The stations at Jasper and Dawsonville also send direct telegraphic reports to Allatoona.

62. Reporting schedules for the various stations in the Allatoona network are as follows:

a. The automatic radio stations at Canton, Rome, Resaca, Wahsega, Amicalola, Dahlonega (nr.) report on call and are interrogated by powerhouse personnel at least once every 4 hours.

b. Cartersville and the Weather Bureau station at Canton report daily at 7 a.m. with special reports at 1 p.m. if rainfall since 7 a.m. is 0.50 inch or more.

c. Carters Dam reports at 7 a.m. whenever the rainfall for the previous 24 hours is 0.10 inch or more.

d. Allatoona Dam normally reports to the district office once daily at 8 a.m. giving 24-hour totals for the station at the dam, the U.S.W.B. station at Cartersville, and the 6 automatic radio stations. During floods and periods of heavy rainfall more frequent reports are made as required.

e. Rome Airport reports every 6 hours.

f. All other stations report in accordance with standard Weather Bureau Reporting Instructions, WB Form 612-20, shown on chart 22. These instructions call for an initial report at 7 a.m., 1 p.m. or 7 p.m. whenever rainfall since last measurement totals 0.50 inch or more and thereafter at 7 a.m., 1 p.m. and 7 p.m. until the rain stops. Rainfall reports are tabulated by the Reservoir Regulation Section on the form shown on chart 23.

63. In addition to the 29 reporting stations there are 17 other precipitation stations in or adjacent to the Coosa River basin above Rome, Ga. These stations are also shown on chart 20.

64. River-stage reporting network. Five stations in the Coosa River basin above Rome, Ga., report river stages. Four of these are the automatic radio reporting gages described in paragraph 59. These stations report on call to the Allatoona powerhouse and are interrogated by powerhouse personnel at least once every 4 hours. The other reporting station is the U. S. Weather Bureau's station near Cartersville, 9.6 miles below Allatoona. The observer reports daily at 7 a.m. by telephone to the Allatoona powerhouse. Powerhouse personnel relay all reports to the Mobile District Office by voice radio or telephone. Normally, these reports from the powerhouse to the district office are made once daily at 8 a.m. and include stages from the reporting stations for the past 24 hours as well as pool elevations at the dam and reservoir inflow and outflow. During floods and periods of heavy

rainfall the reports are made more frequently as required. The Weather Bureau observer at Canton reports the river stage at 7 a.m. each morning direct to the district office by telegram and again at 1 p.m. if the stage is 12 feet or higher. River stage reports are tabulated by the Reservoir Regulation Section on the form shown on chart 23.

65. Pertinent data concerning all river stations are shown in table 3, and their locations are shown on chart 20. Discharge rating curves for the principal main stream stations are shown on charts 25 through 32. These include curves for the Etowah River at Dawsonville, Canton, Allatoona, Cartersville, Kingston and Rome; the Oostanaula River at Resaca; and a relation between the stage at Rome, 5th Avenue, and total discharge at the confluence of the Etowah and Oostanaula Rivers. All stations which are shown in table 3 as being operated by the U. S. Geological Survey or the Corps of Engineers are included in the cooperative stream-gaging program between the two agencies.

Table 2

Rainfall reporting network
Coosa River basin above Rome, Ga.

Basin	Station	Latitude	Longitude	Elevation Ft., msl	Type	Observer
Etowah River above Allatoona Dam	Dahlonega	34° 32'	83° 59'	1519	Non-rec.	Joe W. Woodward
	Dahlonega (nr)	34° 32'	83° 56'	1220	Radio	Corps of Engineers
	Amicalola	34° 33'	84° 15'	1350	Radio	Corps of Engineers
	Wahsega	34° 38'	84° 05'	1600	Radio	Corps of Engineers
	Dawsonville	34° 25'	84° 07'	1370	Recording	Mrs. Thelma F. Cox
	Jasper (1 nnw)	34° 29'	84° 27'	1465	Non-rec.	Howard L. Dilbeck
	Ball Ground	34° 20'	84° 23'	1100	Non-rec.	Mrs. Estelle Grogan
	Waleska	34° 19'	84° 33'	1100	Non-rec.	Mrs. Mary B. Cline
	Canton	34° 14'	84° 29'	890	Recording	C. B. Teasley
	Canton	34° 14'	84° 29'	880	Radio	Corps of Engineers
	Woodstock	34° 06'	84° 31'	992	Non-rec.	W. G. Booth
	Allatoona Dam	34° 10'	84° 44'	975	Recording	Corps of Engineers
Etowah River below Allatoona Dam	Cartersville (3 sw)	34° 09'	84° 50'	685	Non-rec.	G. P. Tatum
	Dallas (5 se)	33° 53'	84° 46'	1095	Recording	Luther M. Byrd, Jr.
	Taylorville	34° 05'	84° 59'	710	Non-rec.	Thomas F. Cousins
	Kingston	34° 14'	84° 56'	720	Non-rec.	Susan McD. Hargis
	Cedartown	34° 01'	85° 15'	785	Non-rec.	Ralph H. Ayers
Oostanaula River	Conasauga (1 n)	35° 01'	84° 44'	727	Recording	T. F. Browder
	Dalton	34° 46'	84° 57'	720	Non-rec.	John S. Andrews
	Chatsworth	34° 46'	84° 47'	765	Recording	Mrs. Lois J. Cole
	Ellijay	34° 42'	84° 29'	1300	Non-rec.	Mrs. Lora Dover
	Carters Dam	34° 38'	84° 32'	685	Non-rec.	Corps of Engineers
	Fairmount	34° 26'	84° 42'	735	Non-rec.	Dymple D. Warmack
	Resaca	34° 34'	84° 57'	650	Non-rec.	William W. Pollock
	Resaca	34° 34'	84° 57'	650	Radio	Corps of Engineers
	Lafayette	34° 42'	85° 16'	810	Recording	J. L. Moss
	Adairsville	34° 21'	84° 56'	720	Recording	Mrs. C. T. Jarrett
	Curryville (2 w)	34° 27'	85° 06'	650	Non-rec.	Joseph B. Davis
	Summerville	34° 29'	85° 22'	780	Non-rec.	James R. Burgess
	Rome airport	34° 21'	85° 10'	637	Recording	U. S. Weather Bureau
	Rome	34° 15'	85° 10'	610	Non-rec.	William M. Towers III
	Rome	34° 16'	85° 10'	610	Radio	Corps of Engineers

Table 3

River-stage reporting network and other river stations
Coosa River basin above Rome, Georgia

Stream	Station (1)	River miles above mouth	Drainage area (Sq. mi.)	Gage zero elevation (Ft.,msl)	Flood stage at reporting stations (Feet)	Type gage	Operated by
<u>Etowah River basin above Allatoona Dam</u>							
Etowah River	Dawsonville (nr.)	128.64	103	(2)		Rec.	USGS
Shoal Creek	Dawsonville	6.50	20.5	(2)		Rec.	USGS
Little River	Roswell (nr.)	17.90	60.5	897.8		Rec.	USGS
Etowah River	Canton	79.21	605	844.55		Rec.	USGS
Etowah River	CANTON	79.21	605	844.55	17	W-Wgt.	USWB
<u>Etowah River basin below Allatoona Dam</u>							
Etowah River	Allatoona	47.00	1110	686.92		Rec.	C of E
Etowah River	CARTERSVILLE (NR.)	38.22	1330	650.86	18	W-Wgt.	USWB
Etowah River	Cartersville (nr.)	38.22	1330	650.86		Rec.	C of E
Hills Creek	Taylorville (nr.)	2.00	26	(2)		Rec.	USGS
Etowah River	Euharlee	30.54	1595	638.15		Rec.	C of E
Etowah River	KINGSTON (NR.)	21.51	1630	609.97		Rec.	C of E
Etowah River	Rome (So. R.R.)	1.80	1810	561.70		Rec.	USGS
Etowah River	Rome (2nd Ave.)	0.90	1816	561.70		Rec.	USGS
<u>Oostanaula River Basin</u>							
Cartecay River	Ellijay (nr.)	2.00	135	1255.39		Rec.	USGS
Ellijay River	Ellijay	1.00	90	1242.32		Rec.	USGS
Scarecorn Creek	Hinton	5.00	21	(2)		Rec.	USGS
Coosawattee R.	Carters (nr.)	26.60	376	664.35		Rec.	C of E
Coosawattee R.	Carters	24.91	531	650.67		Rec.	C of E
Rock Creek	Fairmount	2.75	5.6	758.96		Rec.	USGS
Coosawattee R.	Pine Chapel	6.60	856	616.16		Rec.	USGS
Holly Creek	Chatsworth	(2)	65	(2)		Rec.	USGS
Conasauga R.	Tilton	12.14	682	622.28		Rec.	USGS
Oostanaula R.	RESACA	43.17	1610	604.14	22	W-Wgt.	USWB
Oostanaula R.	Resaca	43.16	1610	604.14		Rec.	USGS
W. Armuchee C.	Subligna	(2)	34	(2)		Rec.	USGS
Oostanaula R.	Rome (nr.)	4.50	2120	561.70		Rec.	USGS
Oostanaula R.	Rome (5th Ave.)	0.35	2150	561.70		Rec.	USGS
Oostanaula R.	ROME (5th Ave.)	0.35	2150	561.70	25	W-Wgt.	USWB

(1) Reporting stations indicated by capital letters.
(2) Not available.

FORECASTING PROCEDURE

66. General. As brought out under "Regulation Plan" and "Regulation Schedules", flood-control operation of Allatoona will be scheduled by the Reservoir Regulation Section in accordance with forecasts of stages at Cartersville and Rome and forecasts of reservoir inflow and pool stages. These forecasts will be made by the Reservoir Regulation Section, for district use only, using the procedure described below. All features of the forecasting procedure are subject to modification and refinement as additional data and operating experience are accumulated.

67. Responsibility for issuing stage forecasts to public. The issuing of stage forecasts to the general public is the legal responsibility of the U. S. Weather Bureau. For the Alabama-Coosa basin forecasts are prepared by the Weather Bureau's River Forecast Center at Augusta, Ga., and are issued through the Weather Bureau Office in Montgomery, Ala. During floods, the Reservoir Regulation Section maintains close liaison with those offices, by telephone, with mutual exchange of information and agreement on expected stages at Weather Bureau river stations which may be influenced by flood-control operations at Allatoona.

68. Forecasting procedure. The upstream location of Allatoona Reservoir and its control points eliminates the possibility of a forecasting procedure using stage relations, and forecasts must be based entirely on rainfall reports. The problem of forecasting stages at Rome is further complicated by its location at the junction of the Etowah and Oostanaula Rivers.

69. Based on available records of stream-flow and rainfall, curves have been developed defining rainfall-runoff relationships for the Etowah River basin and the Oostanaula River basin. These relationships, which were developed for various antecedent conditions, have been set up in tabular form for more convenient use. Table 4 gives the relationship for the Etowah River basin and table 5 gives the relationship for the Oostanaula basin. Since Allatoona first went into operation in 1949 several methods of determining expected runoff from reported rainfall have been tried. The relationships shown in tables 4 and 5 have given the most satisfactory results to date.

70. Inflow to Allatoona Reservoir. By using the rainfall volume in inches for the area above Allatoona and applying the Etowah River rainfall-runoff ratio, the runoff or rainfall-excess in inches for the total drainage area above the dam is quickly determined. From the runoff value thus obtained the corresponding volume of inflow and, allowing for reservoir releases and base flow, the resulting reservoir peak stage to be expected can be obtained. A continuous reservoir-stage hydrograph can be computed by applying the runoff to the inflow unit hydrograph, shown in table 6 and routing the resulting inflow hydrograph through the reservoir, again allowing for reservoir releases and base flow.

71. Cartersville and Kingston. The discharge hydrographs of the Etowah River at Cartersville and Kingston, assuming no releases from Allatoona Dam, are determined by applying the unit hydrograph for the drainage area below the dam to the estimated rainfall-excess for that area and adding the base flow. Discharges at Cartersville corresponding to the critical stages of the regulation schedule in chart 11 will indicate the need for limiting releases at the dam. The predicted hydrograph and the corresponding release limitations will be modified as warranted by subsequent stage reports, due allowance being made for the contribution of actual releases from the dam.

72. The unit hydrographs adopted for the drainage areas below Allatoona at Cartersville and Kingston are shown in table 7. They were determined by routing synthetic unit hydrographs for the tributaries and local sub-areas and, in common with other features of the forecasting procedures, are subject to modification and refinement as additional data and operating experience are accumulated.

73. Rome. Estimated stages at Rome, 5th Avenue, assuming no releases from Allatoona Dam, also will indicate the need for limiting releases at the dam, in accordance with the critical stages of the regulation schedule in chart 11. The predicted stage hydrograph at Rome, 5th Avenue, assuming no releases from Allatoona, is obtained by computing the total discharge of the Coosa River at the confluence of the Oostanaula and Etowah Rivers and converting directly to stage at Rome by means of the discharge-stage relation curve shown on chart 32. The estimated runoff values for the Oostanaula and the Etowah basins are applied to the unit hydrographs for those basins shown in table 8, and then combined with the base flow to obtain the total discharge hydrograph at the confluence of the two streams. The predicted stage hydrograph and the corresponding release limitations will be modified as warranted by subsequent stage reports, due allowance being made for the contribution of actual releases from the dam.

74. Effect of power releases. In order to schedule power operations during flood periods so as to obtain maximum use of the plant without causing or aggravating downstream flooding, it is necessary to know the effect of the power releases at downstream control points. Since conventional flood-routing procedures have not given satisfactory results in determining these effects, a study was made of actual operations during the past 12 years (since 1950). From this study the effects of various power releases have been plotted as discharge hydrographs at Cartersville and Rome. The 1-hour ordinates of these hydrographs have been tabulated for convenient use by the Reservoir Regulation Section. Tables 9 and 10 show peak effects in cfs and time of the peaks at Cartersville and Rome resulting from various power releases at Allatoona Dam.

Table 4

Rainfall-runoff relation for Etowah River basin

Antecedent Conditions	Average Basin rainfall in inches (Storm total)	Average runoff in inches									
		0	.1	.2	.3	.4	.5	.6	.7	.8	.9
<u>Wet</u>	0	0	0	.01	.01	.03	.04	.05	.07	.08	.10
	1	.12	.14	.16	.18	.20	.22	.24	.27	.30	.33
	2	.36	.39	.42	.45	.48	.52	.55	.59	.62	.67
	3	.70	.74	.79	.84	.88	.94	.99	1.05	1.12	1.19
	4	1.27	1.36	1.44	1.53	1.62	1.71	1.80	1.89	1.98	2.07
	5	2.16	2.25	2.34	2.43	2.52	2.61	2.70	2.79	2.88	2.97
	6	3.06	3.16	3.26	3.36	3.46	3.56	3.66	3.76	3.86	3.96
<u>Normal</u>	0	0	0	0	.01	.01	.02	.02	.03	.04	.05
	1	.06	.07	.09	.11	.12	.14	.16	.18	.20	.22
	2	.25	.27	.30	.32	.35	.38	.41	.44	.46	.49
	3	.52	.55	.58	.61	.64	.67	.70	.73	.76	.80
	4	.83	.86	.90	.94	.97	1.01	1.05	1.09	1.14	1.18
	5	1.22	1.27	1.32	1.37	1.43	1.50	1.56	1.62	1.68	1.74
	6	1.80	1.87	1.94	2.01	2.08	2.15	2.22	2.29	2.36	2.43
<u>Dry</u>	0	0	0	0	.01	.01	.02	.02	.03	.04	.05
	1	.05	.06	.07	.07	.08	.09	.09	.10	.11	.12
	2	.13	.14	.15	.16	.18	.19	.20	.21	.23	.24
	3	.25	.27	.28	.30	.31	.32	.34	.35	.37	.38
	4	.40	.41	.43	.44	.46	.47	.49	.51	.52	.54
	5	.56	.58	.60	.62	.64	.67	.69	.72	.75	.78
	6	.82	.86	.90	.94	.98	1.02	1.06	1.10	1.14	1.18

Table 5
Rainfall-runoff relation for Oostanaula River basin

Antecedent Conditions	Average Basin rainfall in inches (Storm total)	Average runoff in inches									
		0	.1	.2	.3	.4	.5	.6	.7	.8	.9
<u>Wet</u>	0		.02	.04	.06	.09	.12	.15	.18	.21	.24
	1	.28	.32	.36	.40	.44	.49	.54	.59	.64	.69
	2	.74	.79	.84	.90	.96	1.02	1.08	1.15	1.22	1.29
	3	1.37	1.44	1.52	1.60	1.67	1.74	1.81	1.89	1.97	2.04
	4	2.12	2.19	2.27	2.34	2.41	2.49	2.56	2.63	2.71	2.79
	5	2.85	2.93	3.00	3.08	3.15	3.22	3.30	3.38	3.45	3.52
	6	3.40	3.67	3.75	3.82	3.89	3.97	4.04	4.12	4.19	4.26
<u>Normal</u>	0		.01	.03	.04	.06	.07	.08	.10	.11	.12
	1	.14	.15	.17	.18	.19	.21	.23	.25	.27	.29
	2	.32	.34	.37	.40	.44	.47	.50	.54	.58	.62
	3	.65	.69	.73	.77	.81	.85	.90	.94	.98	1.02
	4	1.07	1.11	1.16	1.20	1.24	1.28	1.33	1.37	1.42	1.46
	5	1.50	1.55	1.59	1.64	1.68	1.73	1.78	1.82	1.87	1.91
	6	1.96	2.01	2.06	2.11	2.16	2.21	2.26	2.31	2.36	2.41
<u>Dry</u>	0		.01	.02	.03	.04	.05	.06	.06	.07	.08
	1	.09	.10	.11	.12	.13	.14	.14	.15	.16	.17
	2	.18	.19	.20	.22	.23	.25	.27	.29	.32	.35
	3	.38	.41	.44	.47	.50	.54	.57	.61	.64	.68
	4	.72	.76	.80	.84	.88	.92	.96	1.00	1.04	1.08
	5	1.12	1.16	1.20	1.24	1.29	1.33	1.37	1.41	1.45	1.49
	6	1.54	1.56	1.60	1.64	1.70	1.74	1.78	1.82	1.86	1.90

Table 6

Unit hydrographs of reservoir inflow at Allatoona Dam
(Drainage area 1,110 sq. miles)

Time in hours	6-hour unit hydrograph cfs	24-hour unit hydrograph cfs
0	0	0
6	15,600	3,900
12	20,000	8,900
18	17,000	13,150
24	14,000	16,650
30	11,400	15,600
36	9,100	12,880
42	7,100	10,410
48	5,550	8,300
54	4,300	6,530
60	3,400	5,100
66	2,600	3,970
72	2,100	3,100
78	1,700	2,440
84	1,350	1,930
90	1,000	1,530
96	800	1,210
102	600	940
108	500	720
114	400	570
120	300	450
126	200	350
132	150	270
138	100	190
144	70	130
150	40	90
156	20	60
162	10	40
168	0	20
176		10
184		0

Table 7

Unit hydrographs for Etowah River at Cartersville and Kingston
excluding drainage area above Allatoona Dam

Time in hours	Cartersville		Kingston	
	(Drainage area 230 sq. miles)		(Drainage area 520 sq. miles)	
	6-hour unit hydrograph cfs	24-hour unit hydrograph cfs	6-hour unit hydrograph cfs	24-hour unit hydrograph cfs
0	0	0	0	0
6	2,600	650	3,360	840
12	4,370	1,740	7,910	2,820
18	3,640	2,650	8,340	4,900
24	3,400	3,500	7,750	6,840
30	2,920	3,580	6,840	7,710
36	2,300	3,060	5,730	7,160
42	1,760	2,590	4,510	6,210
48	1,320	2,070	3,450	5,130
54	920	1,570	2,550	4,060
60	600	1,150	1,870	3,100
66	360	800	1,330	2,300
72	240	530	900	1,660
78	160	340	600	1,180
84	100	220	390	800
90	40	150	240	530
96	10	90	120	340
102	0	40	30	200
108		10	10	100
114		0	0	40
120				10
126				0

Table 8

Unit hydrographs for Etowah River
below Allatoona Dam and Oostanaula River

Time in hours	Etowah River below Allatoona Dam (Drainage area 700 sq. miles)		Oostanaula River (Drainage area 2,160 sq.miles)	
	6-hour unit hydrograph cfs	24-hour unit hydrograph cfs	6-hour unit hydrograph cfs	24-hour unit hydrograph cfs
0	0	0	0	0
6	120	30	890	220
12	1,100	310	5,080	1,240
18	4,980	1,550	7,100	3,030
24	9,540	3,940	6,800	4,720
30	9,560	6,290	6,970	6,230
36	8,930	8,250	7,210	7,010
42	8,120	9,040	7,370	7,100
48	7,200	8,450	7,250	7,200
54	6,130	7,590	6,910	7,180
60	4,970	6,600	6,590	7,030
66	3,950	5,570	6,410	6,790
72	3,110	4,540	6,470	6,590
78	2,380	3,600	6,700	6,540
84	1,780	2,810	7,110	6,680
90	1,290	2,140	7,810	7,020
96	900	1,580	8,660	7,570
102	590	1,140	9,400	8,240
108	340	770	9,860	8,930
114	170	500	9,960	9,470
120	80	290	9,830	9,760
126	40	150	9,560	9,800
132	10	80	9,170	9,630
138	0	40	8,770	9,330
144		20	8,400	8,970
150		10	8,070	8,600
156		0	7,700	8,230
162			7,400	7,890
168			7,100	7,570
174			6,800	7,250
180			6,430	6,930
186			5,860	6,550
192			4,990	6,030
198			3,590	5,220
204			1,950	4,090
210			680	2,800
216			20	1,560
222			0	660
228				180
234				10
240				0

Table 9

Effect of Allatoona power releases at Cartersville, Georgia

Duration of power release in hours	Average time in hours from beginning of release to peak increase at Cartersville	Peak increase in discharge (cfs) at Cartersville due to power releases of:			
		2,000 cfs	4,000 cfs	6,000 cfs	8,000 cfs
1	4	800	1,440	2,040	2,720
2	4½	1,400	2,560	3,540	4,960
3	5	1,680	3,200	4,620	6,480
4	6	1,960	3,680	5,340	7,120
5	7	2,000	3,880	5,700	7,600
6	8		4,000	5,880	7,760
7	9			6,000	7,920
8	10				8,000

NOTE: Average time from beginning of release at Allatoona to beginning of rise at Cartersville - 2 hours.

Table 10

Effect of Allatoona power releases at Rome, Georgia

Duration of power release in hours	Average time in hours from beginning of release to peak increase at Rome	Peak increase in discharge (cfs) at Rome due to power releases of:			
		2,000 cfs	4,000 cfs	6,000 cfs	8,000 cfs
1	14	300	460	670	880
2	15	550	900	1,320	1,720
3	16	780	1,300	1,920	2,540
4	17	980	1,720	2,520	3,320
5	18	1,160	2,080	3,050	4,010
6	19	1,320	2,400	3,510	4,630
7	20	1,460	2,680	3,900	5,240
8	21	1,580	2,940	4,280	5,740
10	22	1,760	3,350	4,880	6,490
12	23	1,880	3,630	5,300	7,020
14	24	1,950	3,820	5,620	7,460
16	26	1,980	3,940	5,840	7,740
18	28	2,000	3,980	5,960	7,900
20	30		4,000	6,000	7,980
22	32				8,000

NOTE: Average time from beginning of release at
Allatoona to beginning of rise at Rome - 12 hours.

CONTINUING STUDIES AND SURVEYS

75. Sedimentation and retrogression surveys. Prior to filling the reservoir, plans were formulated for sedimentation studies of Allatoona Reservoir and retrogression studies of the channel below the dam. In accordance with these plans sedimentation and retrogression ranges were established, as shown on chart 2, and original range profiles were obtained.

76. Key reservoir ranges considered representative have been resurveyed several times since they were originally established. The latest of these partial surveys, made in 1960 approximately 11 years after impoundment, still show no large deposits in the principal reservoir. A continuing check of the key ranges will be maintained and when significant changes are noted a complete resurvey of the reservoir will be made.

77. The most recent survey of the retrogression ranges was made in June 1961. Although a study of these downstream ranges shows that the channel below the dam is fairly stable, some isolated areas of bank caving are still noted several miles below the dam. It is planned to make studies of suspended materials, in samples to be obtained at several points and at various discharges, to determine the effect, if any, that construction and operation of Allatoona has on the extreme turbidity of the Etowah River at Rome.

78. Studies in progress or planned. In addition to the sedimentation and retrogression studies mentioned above, studies will be continually in progress for the purpose of improving the forecasting procedure as operating experience is gained. Also, project operations are continually studied for possible improvements in the regulation plan or operating technique that would result in additional project benefits without violating any authorized project functions.

MISCELLANEOUS

79. Temperature. The average annual temperature in the vicinity of Allatoona reservoir approximates 61° . This figure is based on normal annual temperatures at six stations: Gainesville, Ga., with 74 years of record; Rome, Ga., 73 years; Dahlonega, Ga., 63 years; Adairsville, Ga., 36 years; Cedartown, Ga., 11 years; and Cartersville, Ga., 11 years. For these stations, the maximum of record is 109° at Rome and the minimum, -11° at Dahlonega. The summer average is about 76° and the winter average about 44° .

80. Precipitation. The normal monthly and annual precipitation over the basin above Allatoona Dam is shown in table 11. This is based on the arithmetical mean of the normals at six stations: Dahlonega, Canton, Cartersville, Cumming, Jasper, and Woodstock. The maximum, minimum, and normal annual precipitation at three of these stations for their period of record is shown in table 12. About 41 percent of the normal annual precipitation occurs from December through March, while only about 18 percent occurs during the dry period September through November. The average annual snowfall is 3 to 4 inches (unmelted), with the greatest amount occurring in January and February. Snowfall is a relatively unimportant factor in producing floods.

81. The Etowah River basin lies in a region which is subject to intense local storms, as well as general storms of heavy rainfall, extending over several days. The latter, which may occur at any time during the year but are much more numerous and severe between late fall and early spring, have been responsible for the major floods in the basin.

82. Stream flow at Allatoona dam site. Stream flow has been measured at the Allatoona gage since September 1938. The station has been operated by the Mobile District since October 1949; before that, it was operated by the U. S. Geological Survey under the name, Cartersville (near). Records are published by the Geological Survey. Flows for the pre-record period, 1897-1938, have been estimated from records for other stations on the Etowah River. Average daily flows at the dam site for the period 1897-1961 are shown on charts 17 through 19.

Table 11

Normal monthly and annual precipitation
Etowah River basin above Allatoona Dam

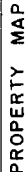
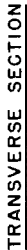
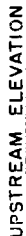
Month	Normal precipitation	
	Inches	Percent of normal annual
January	5.03	9.57
February	5.12	9.74
March	6.64	12.63
April	4.52	8.60
May	3.60	6.85
June	3.87	7.36
July	5.19	9.87
August	4.31	8.20
September	3.19	6.07
October	2.62	4.98
November	3.52	6.70
December	4.96	9.43
Annual	52.57	100.00

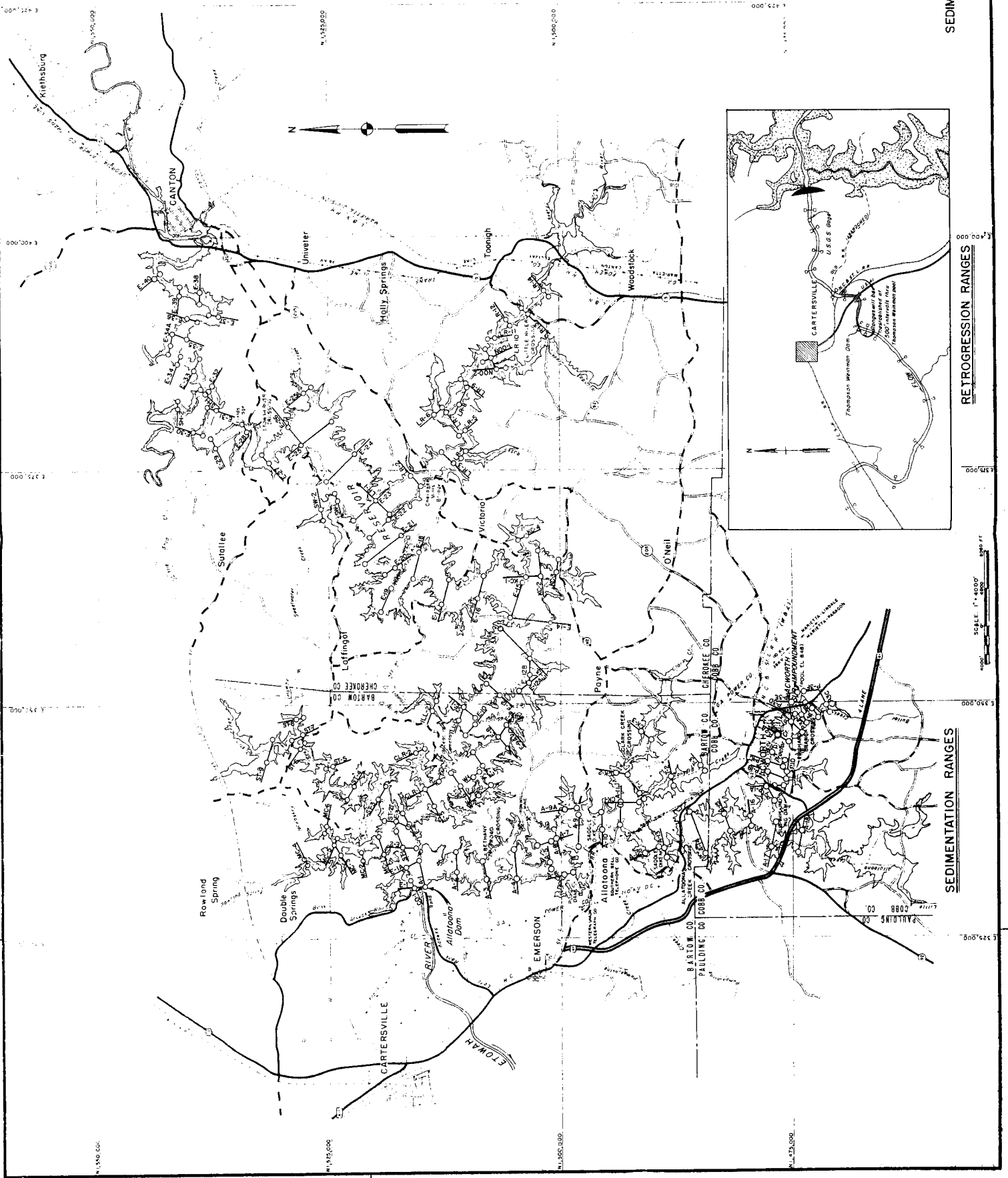
Table 12

Maximum, minimum and normal annual precipitation
for selected stations in upper Etowah River basin

Station	Period of record (years)	Normal annual precipitation (inches)	Maximum annual precipitation		Minimum annual precipitation	
			Inches	Year	Inches	Year
Dahlonega	69	60.10	86.12	1929	39.22	1904
Canton	68	52.28	79.20	1932	38.94	1902
Cartersville	23	48.50	59.68	1948	33.18	1954

CHARTS

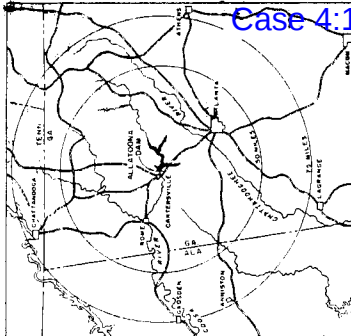




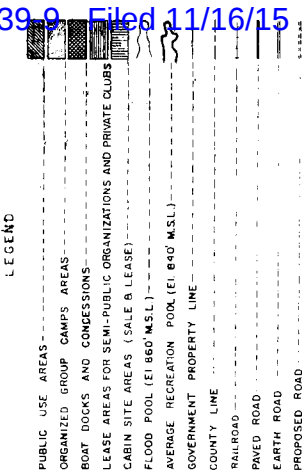
ALABAMA - COOSA BASIN
RESERVOIR REGULATION MANUAL
ALLATOONA RESERVOIR, ETOWAH RIVER, GA.

RESERVOIR MAP SEDIMENTATION AND RETROGRESSION RANGES

APPENDIX A CHART NO. 2



VICINITY MAP
SCALE
0 10 20 Miles



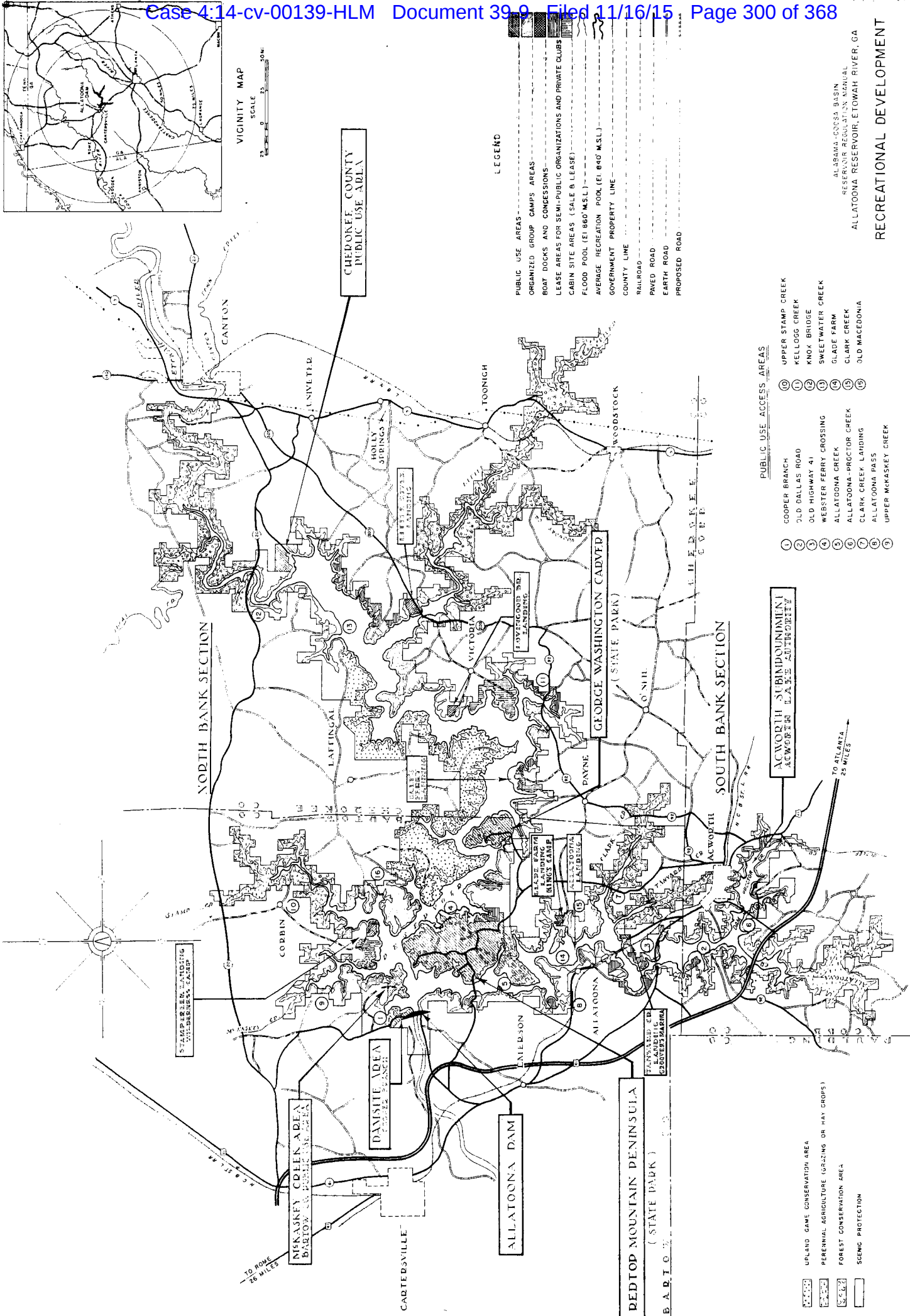
ALABAMA-COOSA BASIN
RESERVOIR REGULATION MANUAL
ALLATOONA RESERVOIR, ETOWAH RIVER, GA

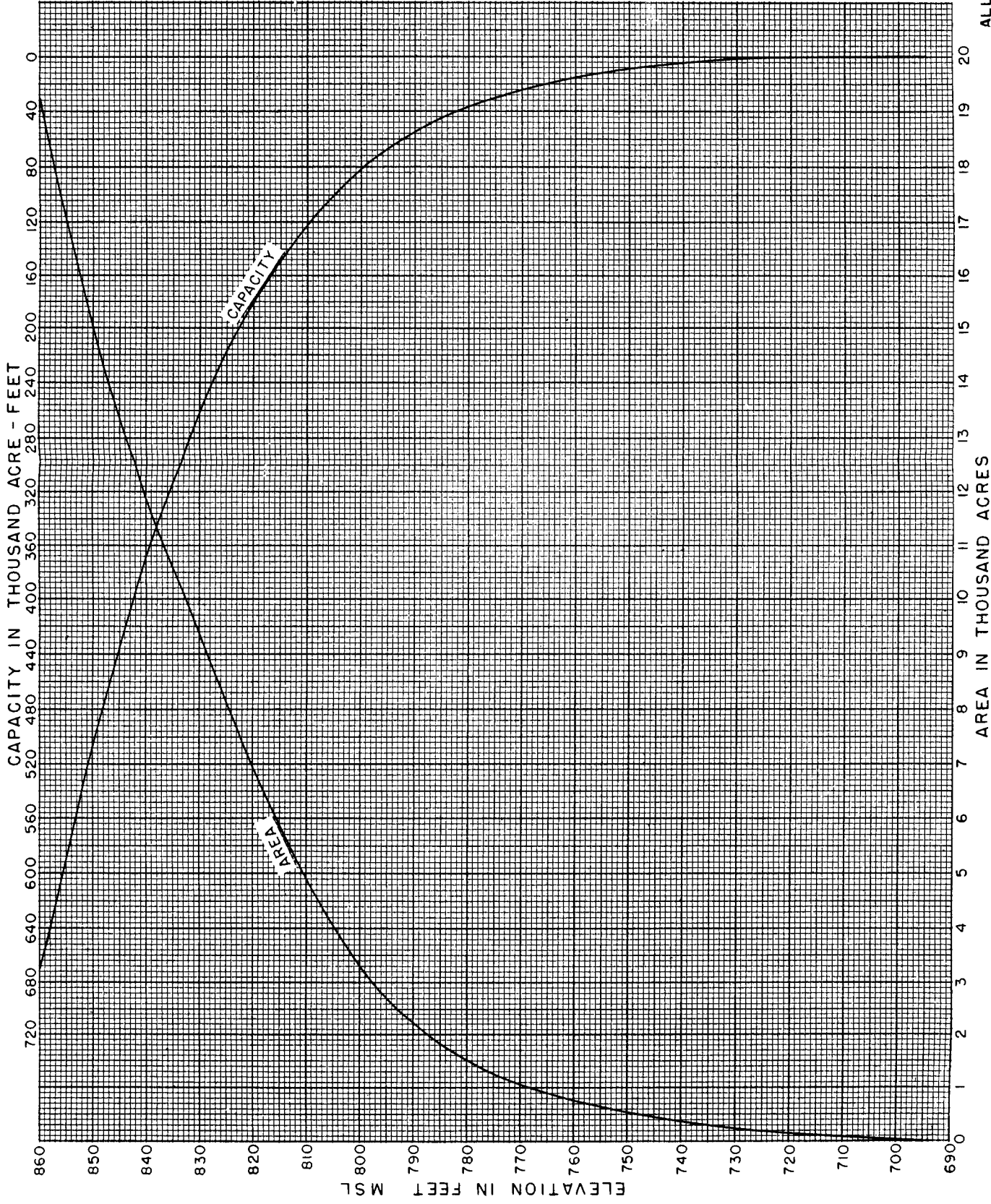
RECREATIONAL DEVELOPMENT

PUBLIC USE ACCESS AREAS

1	COOPER BRANCH	10	UPPER STAMP CREEK
2	OLD DALLAS ROAD	11	KELLOGG CREEK
3	OLD HIGHWAY 41	12	KNOX BRIDGE
4	WESTER FERRY CROSSING	13	SWEETWATER CREEK
5	ALLATOONA CREEK	14	GLADE FARM
6	ALLATOONA-PROCTOR CREEK	15	CLARK CREEK
7	CLARK CREEK LAUNDING	16	OLD MACEDONIA
8	ALLATOONA PASS		
9	UPPER MCKASKEY CREEK		

1	UPLAND GAME CONSERVATION AREA
2	PERENNIAL AGRICULTURE (GRAZING OR HAY CROPS)
3	FOREST CONSERVATION AREA
4	SCENIC PROTECTION





ALABAMA-COOSA BASIN
RESERVOIR REGULATION MANUAL
ALLATOONA RESERVOIR, ETOWAH RIVER, GA.
AREA AND CAPACITY CURVES
APPENDIX A CHART NO. 4

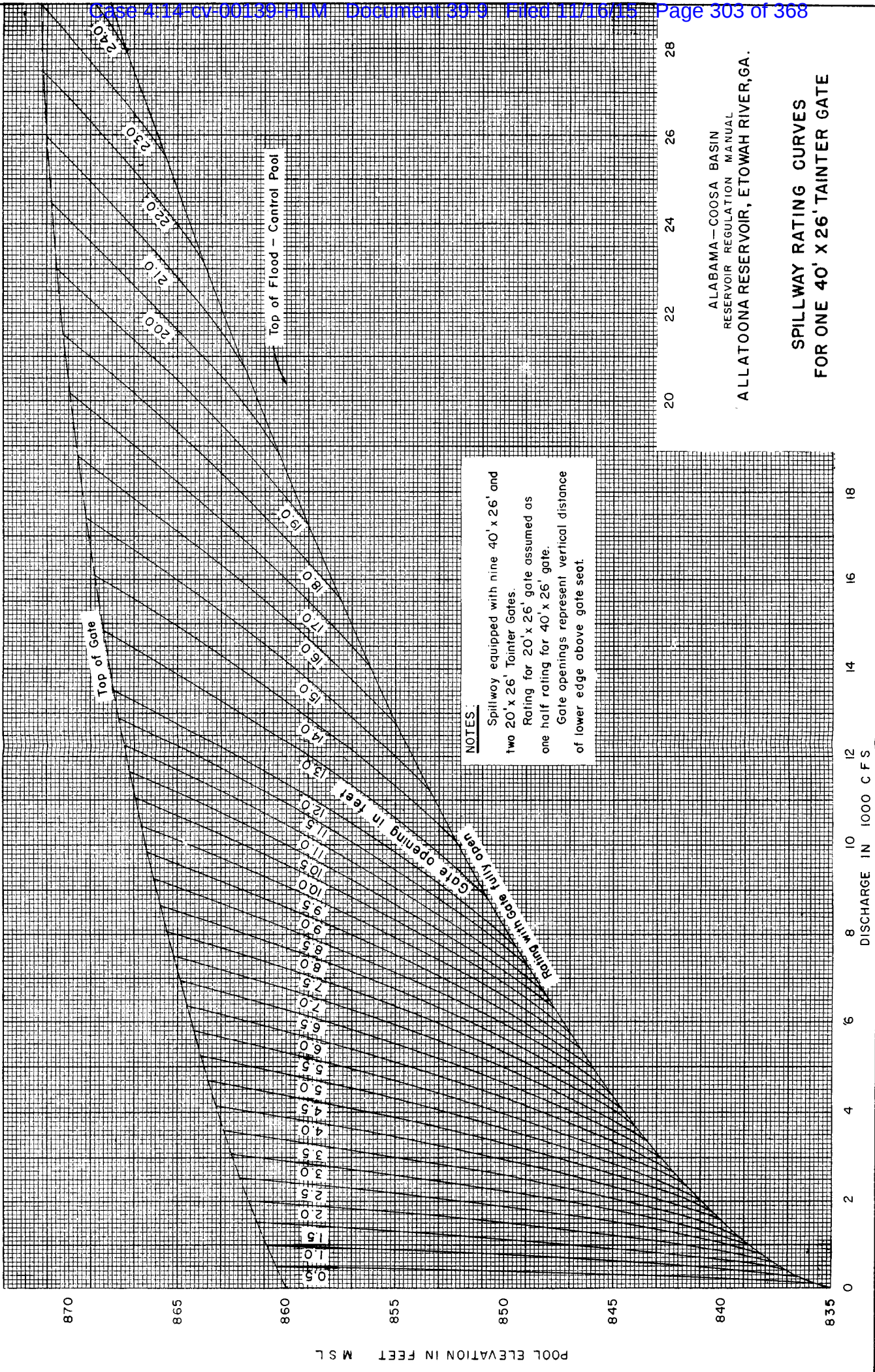
Allatoona Reservoir
Area and capacity

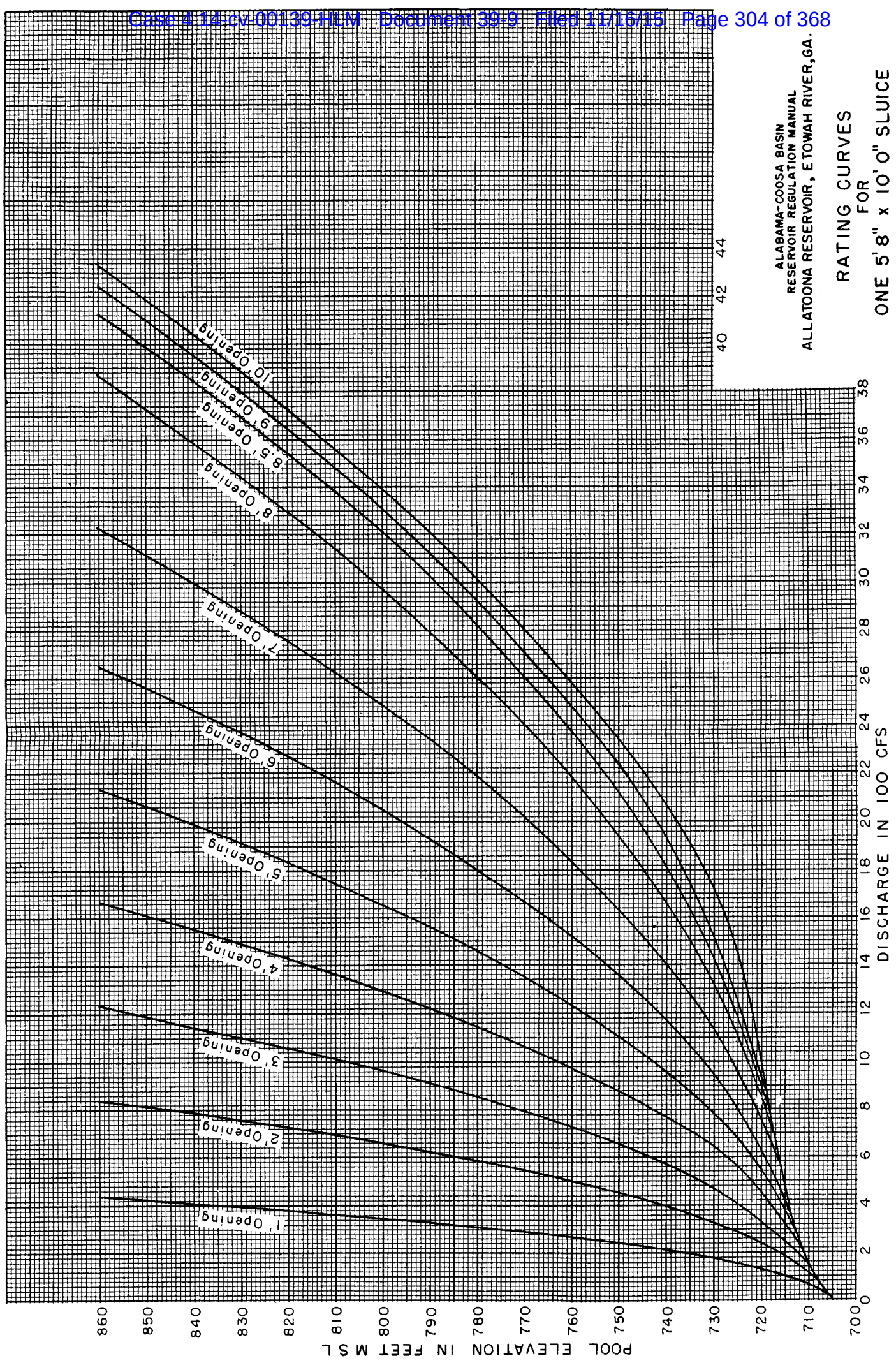
Pool elev. (m.s.l.)	Total area (acres)	Total storage (ac.-ft.)	Pool elev. (m.s.l.)	Total area (acres)	Total storage (ac.-ft.)
695	0	0	825	8078	218453
			826	8317	226651
725	182	2359	827	8558	235089
			828	8801	243769
750	508	10382	829	9046	252693
760	734	16534	830	9293	261863
			831	9542	271281
770	1042	25326	832	9793	280949
			833	10045	290868
780	1493	37851	834	10298	301040
790	2190	56021	835	10552	311465
			836	10808	322145
800*	3251	82891	837	11067	333083
801	3381	86207	838	11329	344281
802	3516	89655	839	11594	355743
803	3657	93241			
804	3804	96971	840**	11862	367471
			841	12134	379469
805	3957	100851	842	12411	391741
806	4116	104887	843	12695	404294
807	4281	109085	844	12988	417136
808	4452	113451			
809	4629	117991	845	13289	430274
			846	13599	443718
810	4812	122711	847	13918	457476
811	5001	127617	848	14246	471558
812	5196	132715	849	14584	485973
813	5397	138011			
814	5602	143511	850	14933	500731
			851	15293	515844
815	5811	149217	852	15665	531323
816	6024	155135	853	16050	547181
817	6241	161267	854	16449	563431
818	6462	167619			
819	6686	174193	855	16863	580087
			856	17293	597165
820	6913	180993	857	17740	614681
821	7142	188021	858	18205	632653
822	7373	195279	859	18692	651101
823	7606	202769			
824	7841	210493	860***	19201	670047

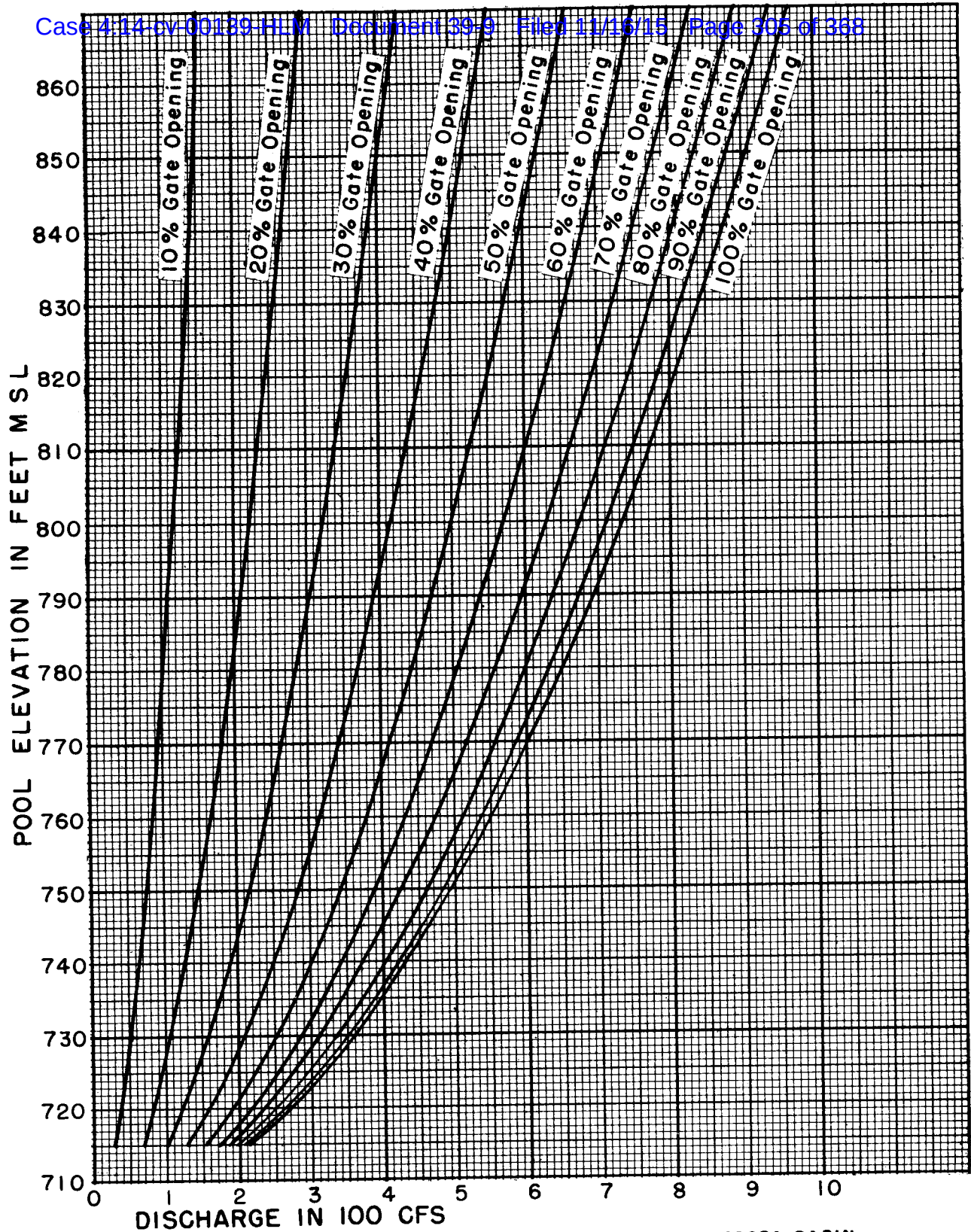
*Minimum power pool **Top of power pool ***Top of flood-control pool
(summer level)

APPENDIX A

CHART No. 5





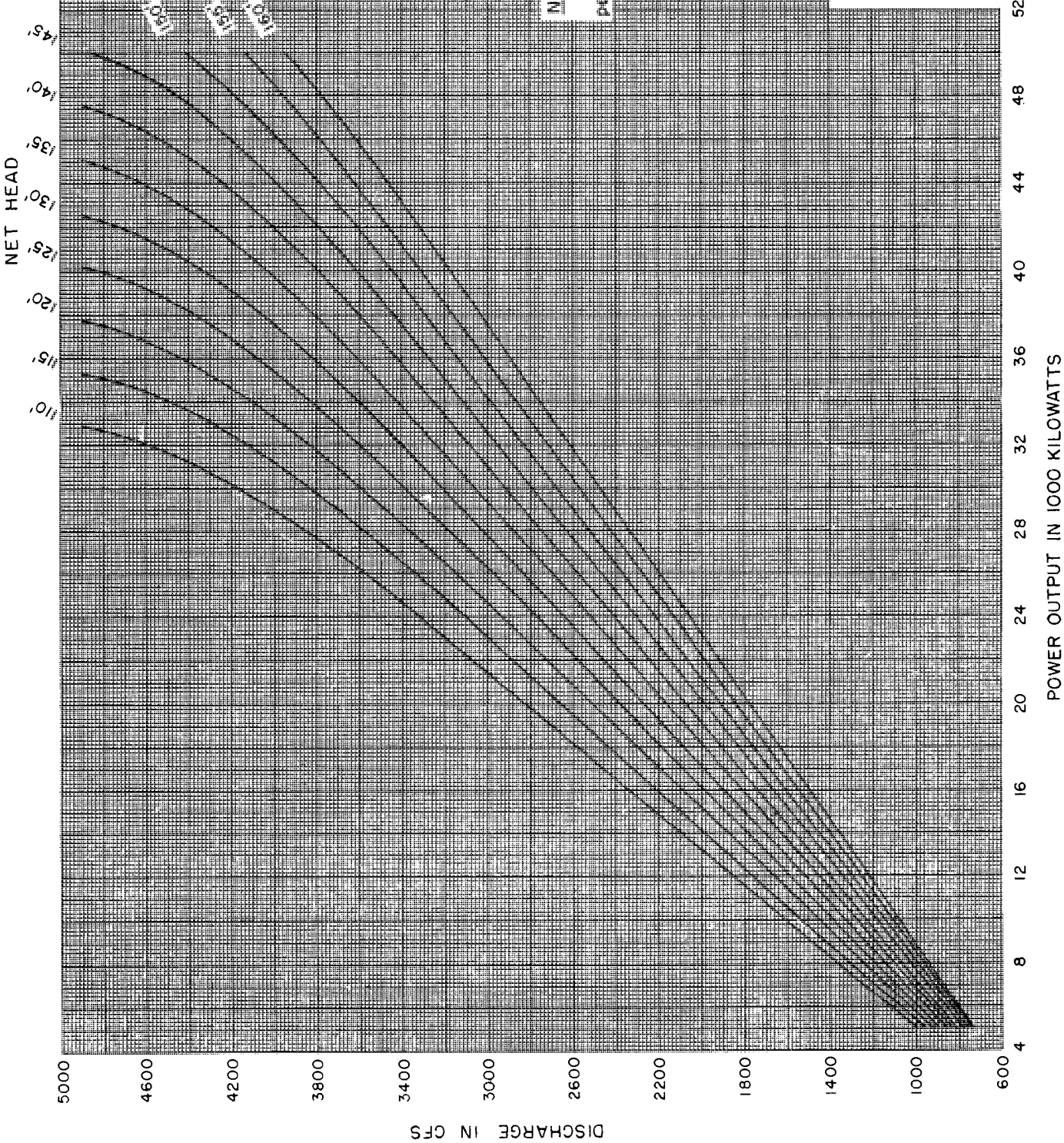


ALABAMA-COOSA BASIN
RESERVOIR REGULATION MANUAL
ALLATOONA RESERVOIR, ETOWAH RIVER, GA.

RATING CURVES
FOR
48" SLUICE
(HOWELL-BUNGER VALVE)

APPENDIX A CHART NO. 8

SAM AR001072

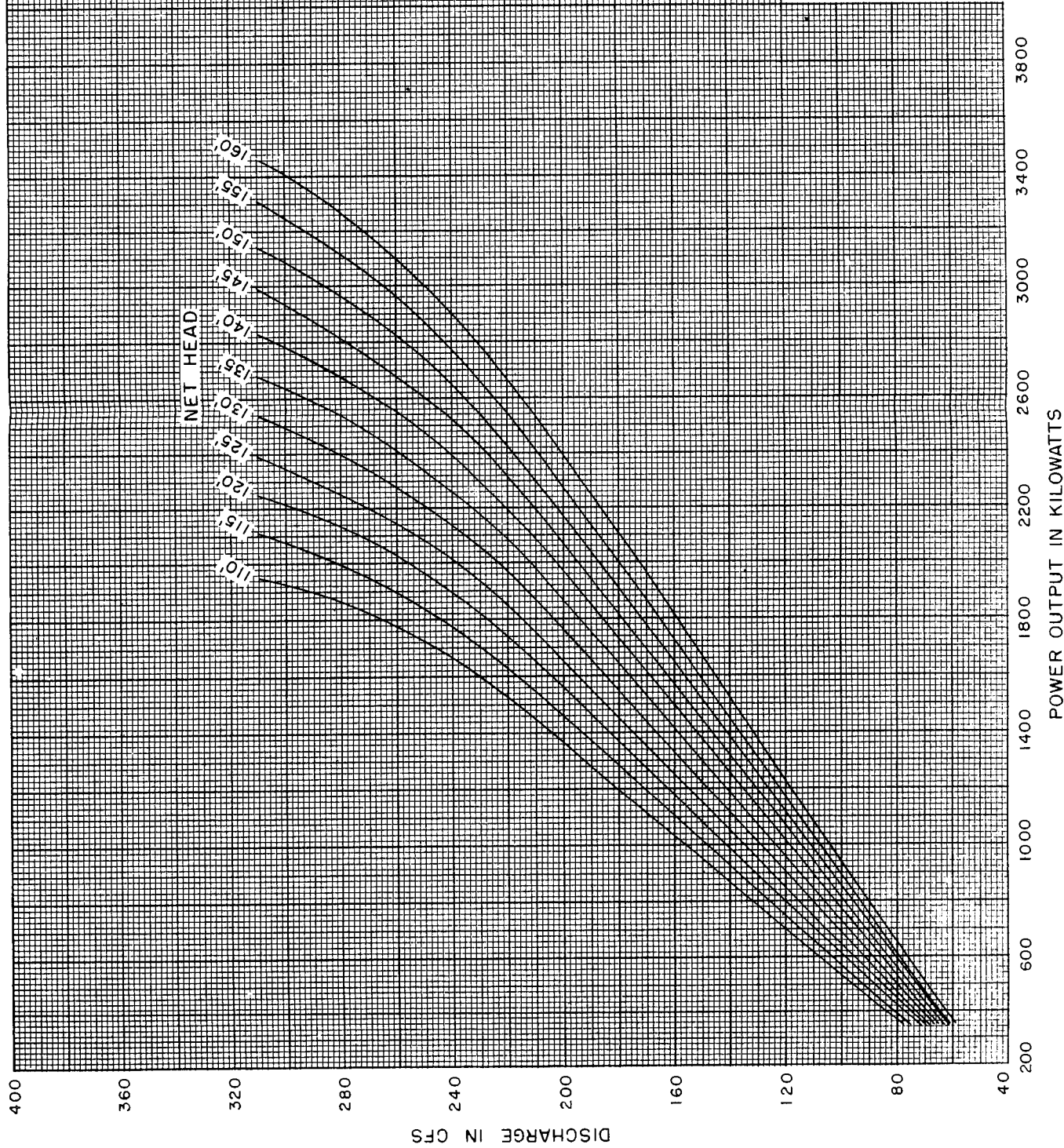


NOTE:
Curves based on results of Gibson Tests
performed in July 1950.

ALABAMA-COOSA BASIN
RESERVOIR REGULATION MANUAL
ALLATOONA RESERVOIR, ETOWAH RIVER BASIN

PERFORMANCE CURVES

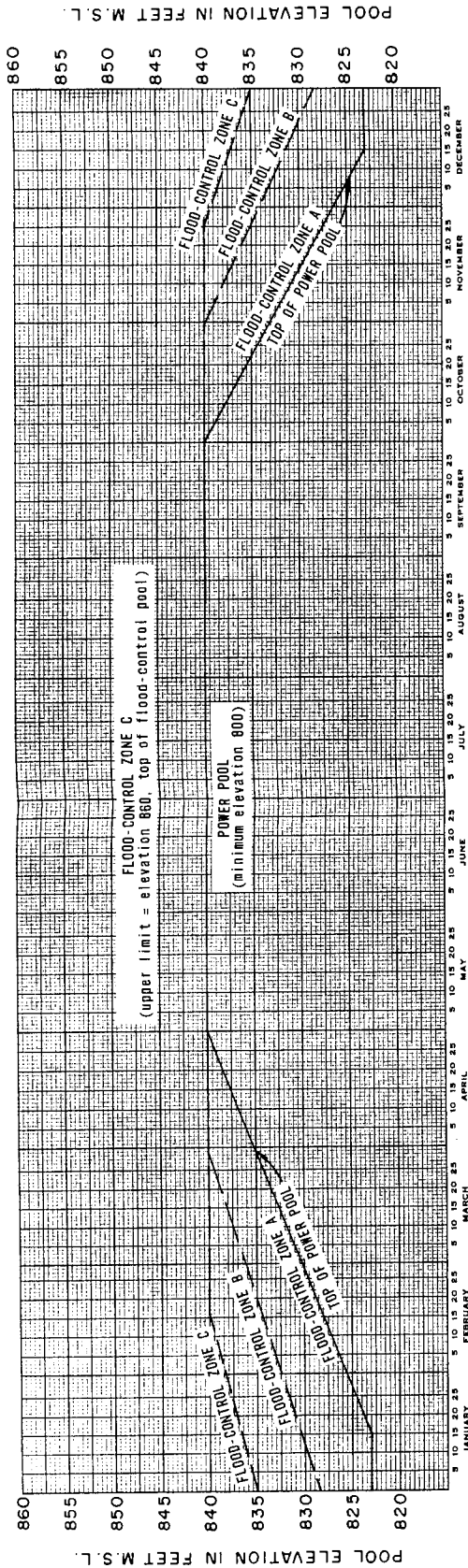
MAIN TURBOGENERATOR UNIT



NOTE:
Curves based on results of Gibson
Tests performed in July 1950.

ALABAMA - COOSA BASIN
RESERVOIR REGULATION MANUAL
ALLATOONA RESERVOIR, ETOWAH RIVER, GA.

PERFORMANCE CURVES
SMALL TURBOGENERATOR UNIT



- (1) The seasonal curve delineating top of power pool is a firm division between the power and flood-control pools. Therefore, the reservoir will be operated primarily for flood control when pool is above the top-of-power-pool curve and primarily for power generation when pool is on or below the top-of-power-pool curve.
- (2) Normally maintain pool at or below top of power pool.
- (3) All normal pondage, including week-end pondage, will be performed below the top-of-power-pool curve.
- (4) When reservoir inflows cause pool to rise above the top of power pool, normal power operations may be continued, unless modified for flood control according to the schedule on chart 12. As soon as downstream conditions permit, water stored above the top of power pool will be released in accordance with the following operating instructions. (In the instructions, zone percentage for a given pool on a given date means the percentage of the zone storage allocation on that date which is occupied by the pool.)

Normal Operating Zone (Power Pool)

When pool lies in Zone A at time emptying commences, the zone percentage will be determined and weekly releases will be scheduled during the peak power period equivalent to not less than the zone percentage times 8,000 cfs for 100 hours. Any portion of the required first week's peak total is at least equal to the minimum required for that period. Above schedule will be followed until pool is lowered to top of power pool, unless modified for flood control.

Flood-control Zone A

Flood-control Zone B

When pool lies in Zone B at time emptying commences, the zone percentage will be determined and weekly releases will be scheduled as follows: full turbine capacity (approximately 8,000 cfs) during the entire 100-hour peak power period plus the equivalent of the zone percentage times 8,000 cfs for the remaining 68 hours. Any portion of the required first week's off-peak schedule may be deferred and added to the second week's off-peak schedule provided that the 2-week off-peak total is equal to the minimum required for that period. When pool is lowered to the point of entry into Zone A, all off-peak releases will be discontinued (except those for minimum flow requirements) and the power plant operated continuously at full turbine capacity (approximately 8,000 cfs) during the 100-hour peak power period until pool is lowered to top of power pool. Above schedule will be followed unless modified for flood control.

Flood-control Zone C

When pool lies in Zone C at time emptying commences, releases up to 9,500 cfs (bankfull capacity) will be scheduled as downstream conditions permit until pool is lowered to the next flood-control zone or to top of power pool. If pool enters Zone B, releases equal to full turbine capacity (approximately 8,000 cfs) will be scheduled continuously (24 hours per day) until pool enters Zone A. If pool enters Zone A, releases equal to full turbine capacity (approximately 8,000 cfs) will be scheduled continuously during the 100-hour peak power period until pool is lowered to top of power pool. Above schedule will be followed unless modified for flood control.

Means of releases from flood-control zones. The release schedules established for Zones A, B, and C will normally utilize the power plant up to full capacity plus sluices and/or spillway if required. If, for any reason, releases cannot be made through the turbines, the full required release will be maintained through the flood-control sluices and/or spillway.

ALABAMA-COOSA BASIN
RESERVOIR REGULATION MANUAL
ALLATOONA RESERVOIR, ETOWAH RIVER GA.

FLOOD-CONTROL ZONES
AND OPERATING RULES

I. POOL ELEVATION BELOW TOP OF POWER POOL

a. Downstream stages rising

Normal power operations will continue except that maximum permissible releases will be based on stages forecast for Cartersville and Rome. Flow from the dam will be regulated to not exceed the releases shown below 6 hours before the predicted stage is expected at Cartersville, or 18 hours before the predicted stage is expected at Rome.

MAXIMUM PERMISSIBLE RELEASE cfs	PREDICTED STAGES (WITH NO RELEASE FROM DAM) THAT WILL ALLOW PEAKING POWER OPERATIONS NOT TO EXCEED DURATIONS OF:					
	2 HOURS		4 HOURS		8 HOURS	
	Cartersville	Rome	Cartersville	Rome	Cartersville	Rome
2,000	13.7	19.6	13.2	19.4	13.2	19.0
4,000	12.6	19.4	11.5	18.9	11.2	18.1
6,000	11.6	19.2	9.7	18.3	8.9	17.2
8,000	10.1	18.9	7.5	17.8	6.3	16.3

Whenever a stage of 15.0 feet is forecast for Cartersville or 20.0 feet at Rome, outflow will be limited to 200 cfs through the service unit.

b. Downstream stages falling

Same as I-a above.

II. POOL ELEVATION BETWEEN TOP OF POWER POOL AND ELEVATION 860,
NOT EXPECTED TO EXCEED ELEVATION 860a. Downstream stages rising

Same as I-a above.

b. Downstream stages falling

Base releases on predicted stages at Cartersville and Rome, according to the schedule shown below, and on the emptying instructions shown on chart 11. Increase releases as downstream stages recede until total release equals that required by the instructions on chart 11. Increases in outflow should not be made earlier than 6 hours before predicted stage is expected at Cartersville or 24 hours before predicted stage is expected at Rome. These releases will normally utilize the power plant up to full capacity. However, if, for any reason, releases cannot be made through the turbines, the full release schedule will be maintained through the spillway or sluices.

PREDICTED STAGE WITH NO RELEASE FROM DAM			MAXIMUM PERMISSIBLE RELEASE cfs
CARTERSVILLE	ROME	5th Ave.	
15.0	20.0		200
13.2	18.7		2,000
11.2	17.4		4,000
8.9	16.1		6,000
6.3	15.0		8,000
3.5	14.2		9,500

III. POOL ELEVATION BETWEEN TOP OF POWER POOL AND ELEVATION 860,
EXPECTED TO EXCEED ELEVATION 860

Follow schedule I-a until larger releases are required by Spillway Gate Regulation Schedule, chart 15, then follow instructions on that chart. While the pool is rising and still below elevation 859.5, the required releases may be made through turbines, spillway or sluices. When the pool is above 859.5 the spillway must be used to pass all required outflow in excess of turbine capacity in order to keep the top of gates above the rising pool level.

IV. POOL ELEVATION ABOVE 860

Operate according to instructions on Spillway Gate Regulation Schedule, chart 15, until pool level recedes to elevation 859.5, then pass the inflow or release the maximum allowable rate under schedule II-b, whichever is greater.

I. POOL ELEVATION BELOW 859.5 AND NO RELEASE REQUIRED BY SPILLWAY GATE REGULATION SCHEDULE, CHART 15

a. Downstream stages rising

Outflow will be limited to that required for peaking power operations subject to the following restrictions based on stages at Cartersville and Rome:

DOWNSTREAM STAGES*		MAXIMUM PERMISSIBLE RELEASES (cfs) IN PEAKING POWER OPERATIONS NOT TO EXCEED:			
		2 HOURS DURATION	4 HOURS DURATION	6 HOURS DURATION	8 HOURS DURATION
CARTERSVILLE	ROME				
5.0	8.0	8,000	8,000	7,000	6,700
6.0	9.0	8,000	7,500	6,000	5,500
7.0	10.0	8,000	6,400	5,000	4,000
8.0	11.0	8,000	5,000	4,000	3,000
9.0	12.0	7,500	4,500	2,500	-
10.0	13.0	5,000	2,000	-	-

If heavy rain should occur after a power operation has commenced, the outflow should be reduced as soon as possible to 200 cfs and should not be increased again until the effect of the additional rainfall on downstream stages has been determined.

b. Downstream stages falling

Outflow will be limited to that required for peaking power operations subject to the following restrictions based on stages at Cartersville and Rome:

DOWNSTREAM STAGES*		MAXIMUM PERMISSIBLE RELEASES (cfs) IN PEAKING POWER OPERATIONS NOT TO EXCEED:			
		2 HOURS DURATION	4 HOURS DURATION	6 HOURS DURATION	8 HOURS DURATION
CARTERSVILLE	ROME				
16.0	21.7	2,700	2,000	2,000	2,000
14.0	21.5	5,000	4,000	4,000	4,000
12.0	21.2	7,500	5,000	4,600	4,600
10.0	20.9	8,000	6,200	6,000	6,000
9.0	20.8	8,000	7,000	6,500	6,000
8.0	20.7	8,000	8,000	7,000	7,000
7.0	20.5	8,000	8,000	8,000	7,300

If heavy rain should occur after a power operation has commenced, the outflow should be reduced as soon as possible to 200 cfs and should not be increased again until the effect of the additional rainfall on downstream stages has been determined.

II. POOL ELEVATION BELOW 859.5 AND RELEASE REQUIRED BY SPILLWAY GATE REGULATION SCHEDULE, CHART 15

Follow operating instructions on chart 15, making required releases through turbines, spillway or sluices.

III. POOL ELEVATION ABOVE 859.5

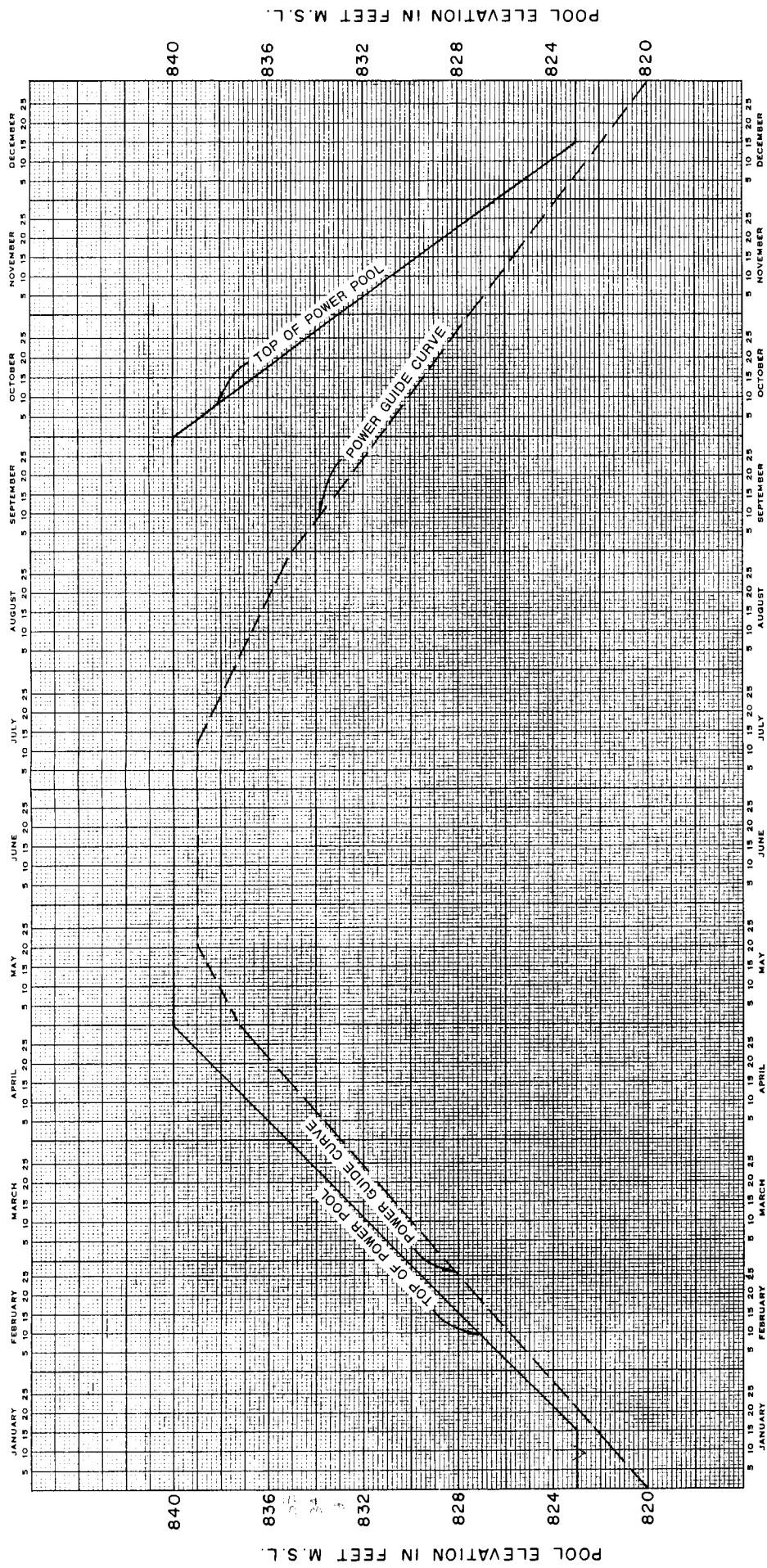
Follow operating instructions on chart 15. All required outflow in excess of turbine capacity must be made through the spillway only in order to keep the top of gates above the rising pool level.

*Stages in I-a and I-b are based on local inflow below the dam with no contribution from Allatoona. If stages are partly caused by previous power operations, this fact should be considered in applying these limitations. The following tabulation shows the average effect of various peaking operations at Cartersville and Rome:

RELEASE FROM ALLATOONA cfs	PEAK INCREASE IN DISCHARGE (cfs) DOWNSTREAM DUE TO PEAKING OPERATIONS OF:								
	2 HOURS DURATION		4 HOURS DURATION		6 HOURS DURATION		8 HOURS DURATION		
	CARTERSVILLE	ROME	CARTERSVILLE	ROME	CARTERSVILLE	ROME	CARTERSVILLE	ROME	
2,000	1,400	550	1,960	980	2,000	1,320	2,000	1,580	
4,000	2,560	900	3,680	1,720	4,000	2,400	4,000	2,940	
6,000	3,540	1,320	5,340	2,520	5,880	3,570	6,000	4,280	
8,000	4,960	1,720	7,120	3,320	7,760	4,630	8,000	5,740	

Average time from beginning of release at Allatoona to beginning of rise at Cartersville - 2 hours
at Rome - 12 hours

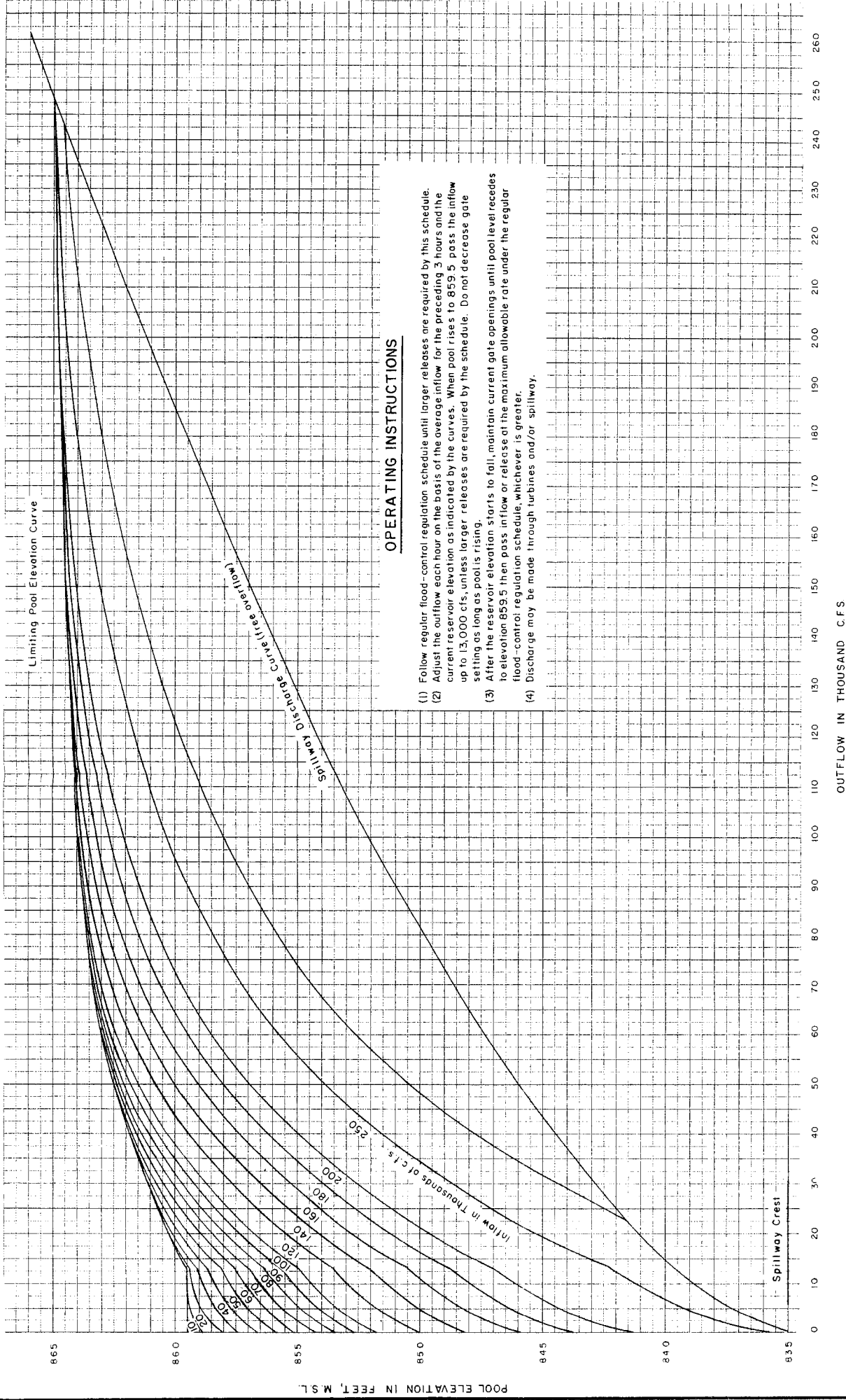
For average time from beginning of release at Allatoona to peaks at Cartersville and Rome, see tables 9 and 10.



ALABAMA - COOSA BASIN
RESERVOIR REGULATION MANUAL

ALLATOONA RESERVOIR, ETOWAH RIVER, GA.

GUIDE CURVE FOR POWER OPERATION

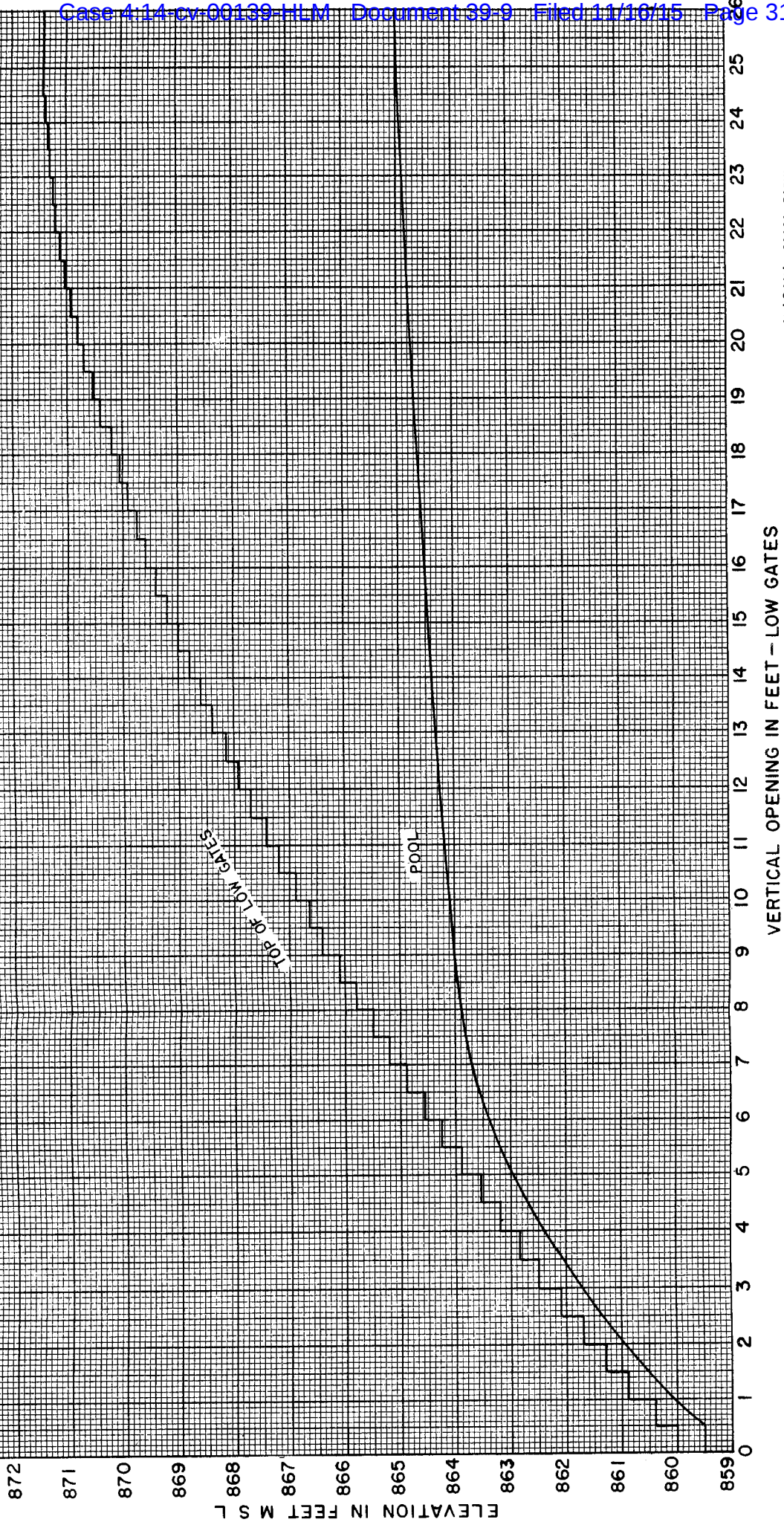


OPERATING INSTRUCTIONS

- (1) Follow regular flood-control regulation schedule until larger releases are required by this schedule.
- (2) Adjust the outflow each hour on the basis of the average inflow for the preceding 3 hours and the current reservoir elevation as indicated by the curves. When pool rises to 859.5 pass the inflow up to 13,000 cfs, unless larger releases are required by the schedule. Do not decrease gate setting as long as pool is rising.
- (3) After the reservoir elevation starts to fall, maintain current gate openings until pool level recedes to elevation 859.5 then pass inflow or release at the maximum allowable rate under the regular flood-control regulation schedule, whichever is greater.
- (4) Discharge may be made through turbines and/or spillway.

ALABAMA - COOSA BASIN
RESERVOIR REGULATION MANUAL
ALLATOONA RESERVOIR, ETOWAH RIVER GA.

INDUCED-SURCHARGE SCHEDULE

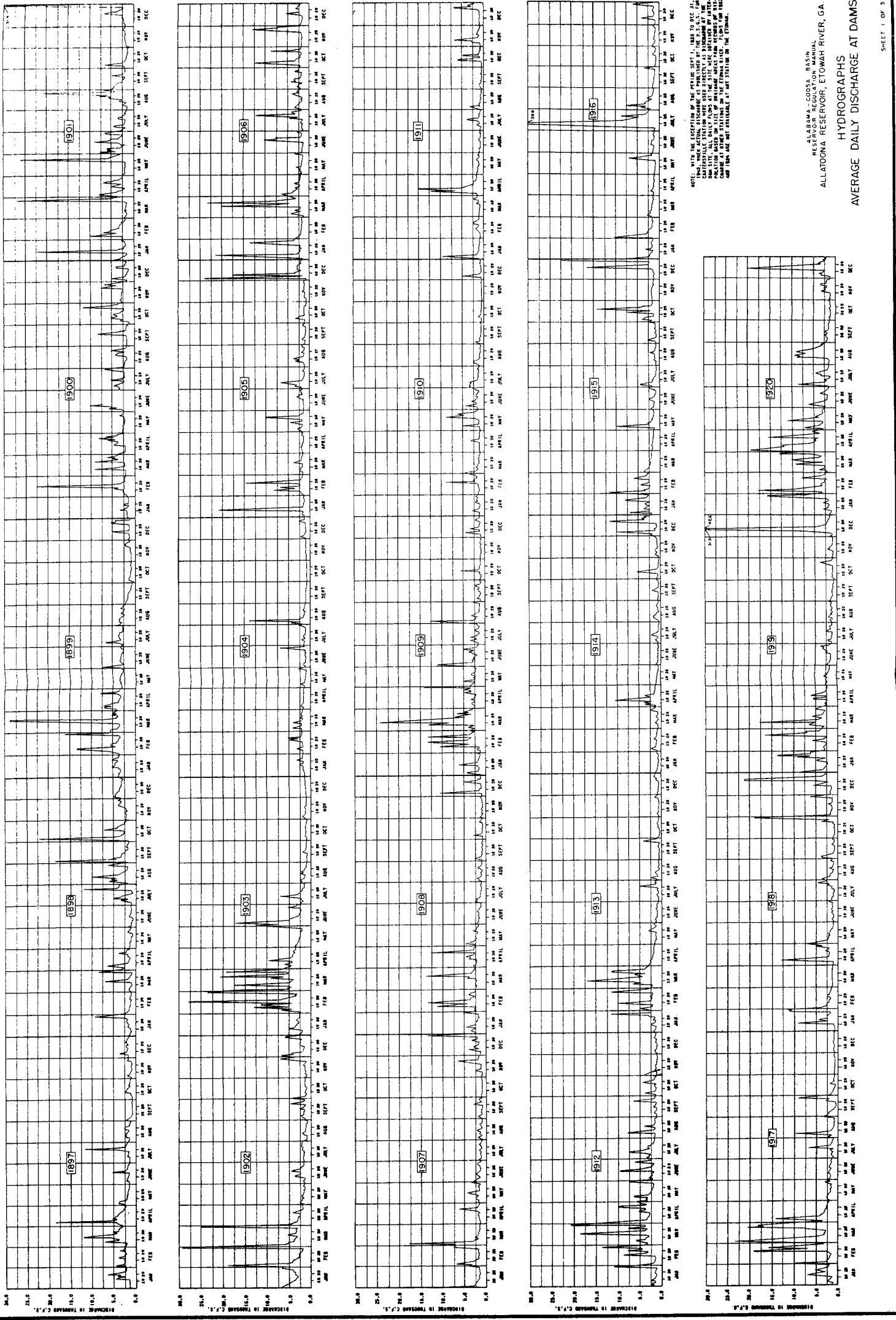


NOTE:

For induced--surcharge operation gates will be opened as uniformly as practicable with no gate opening more than 0.5 foot larger than any other gate opening.
When regular induced--surcharge operation would result in pool levels above this limiting schedule, gates will be opened as required so that the openings of the low gates will conform with the limiting schedule.
All gates will be clear when pool reaches elevation 865.0.

ALABAMA - COOSA BASIN
RESERVOIR REGULATION MANUAL
ALLATOONA RESERVOIR ETOWAH RIVER, GA.
LIMITING GATE-OPENING SCHEDULE FOR
INDUCED--SURCHARGE OPERATION

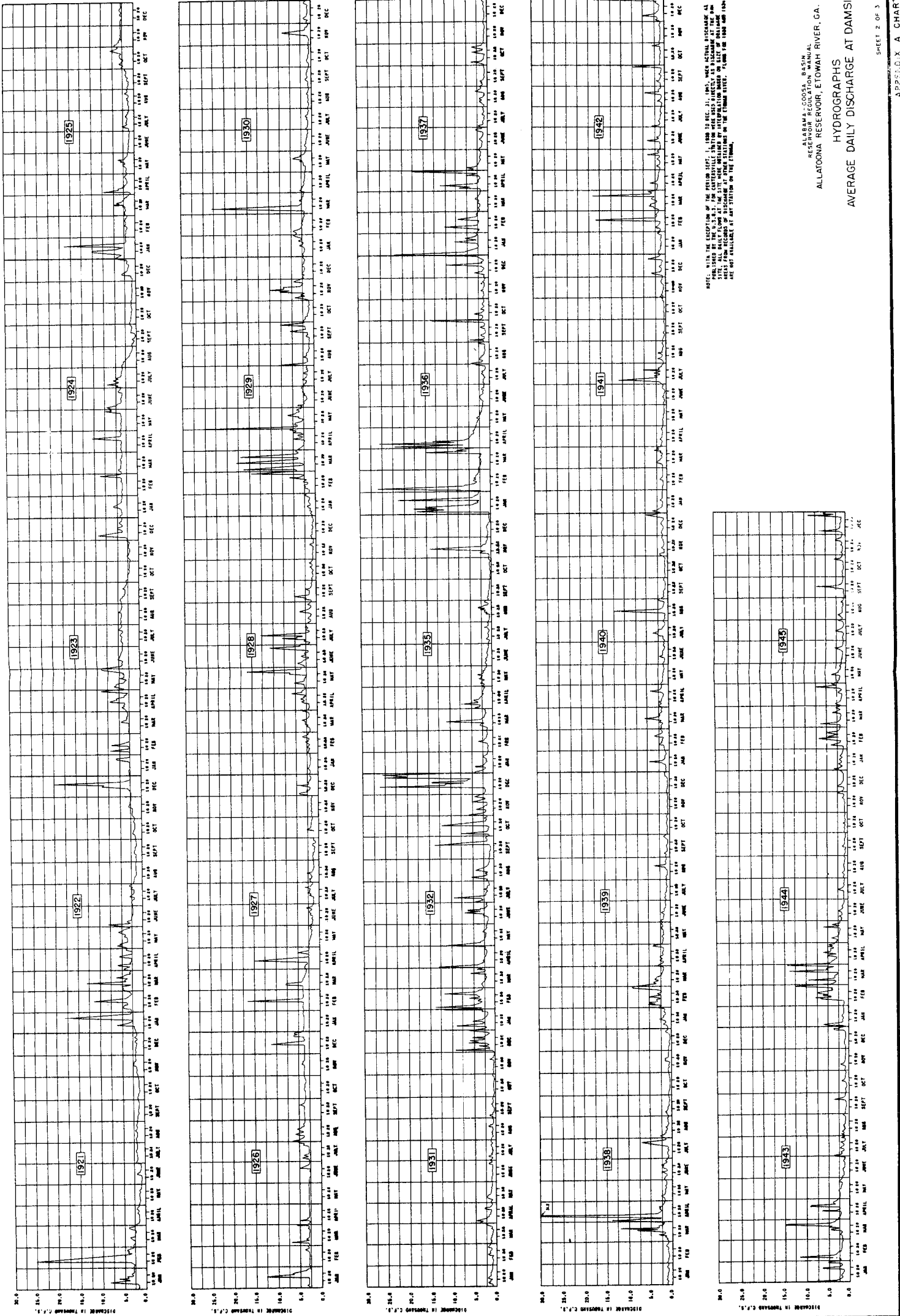
TRANS. DATA DEVELOPMENT, INC.



NOTE: WITH THE EXCEPTION OF THE PERIOD SEP. 1, 1903 TO DEC. 31, 1903, THE DATA FOR THE YEARS 1904 THROUGH 1906 WERE OBTAINED FROM THE CASTLETON STATION. FOR THE YEARS 1907 THROUGH 1910, THE DATA WERE OBTAINED FROM THE CASTLETON STATION. FOR THE YEARS 1911 THROUGH 1916, THE DATA WERE OBTAINED FROM THE CASTLETON STATION. FOR THE YEARS 1917 THROUGH 1920, THE DATA WERE OBTAINED FROM THE CASTLETON STATION.

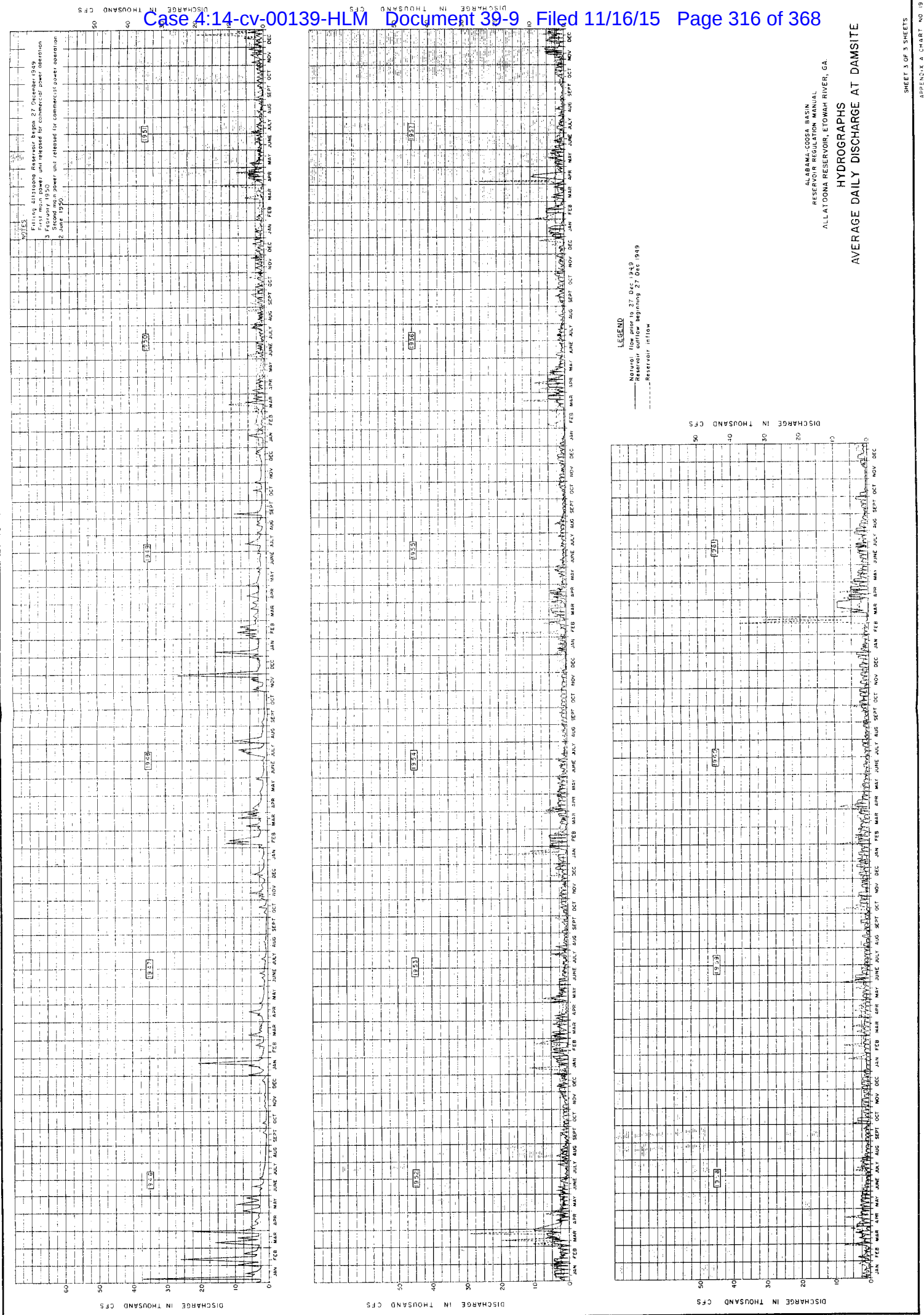
ALABAMA-GORSA BASIN
RESERVOIR REGULATION MANUAL
ALLATOONA RESERVOIR, ETOWAH RIVER, GA.
HYDROGRAPHS
AVERAGE DAILY DISCHARGE AT DAMSITE

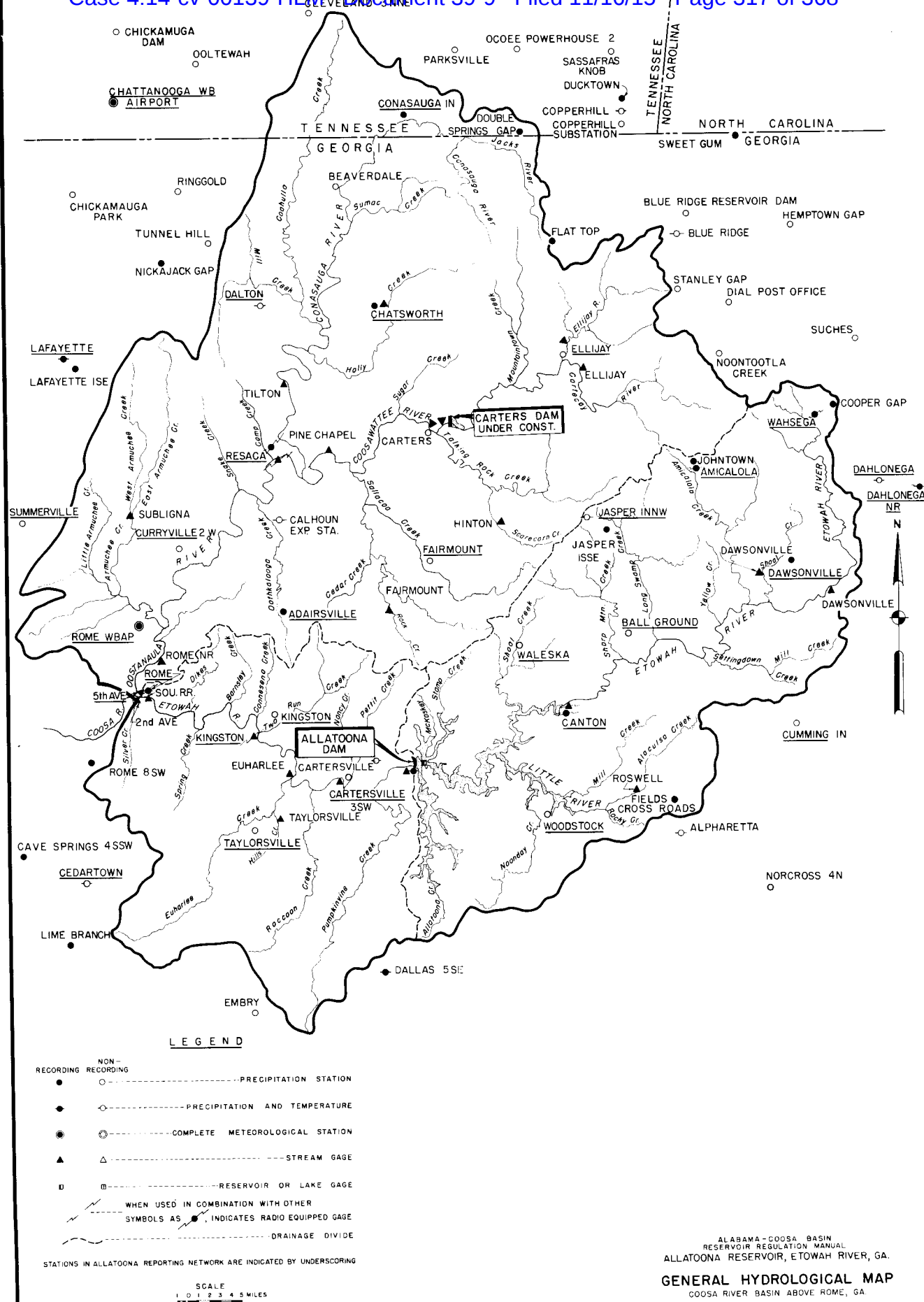
WAR DEPARTMENT

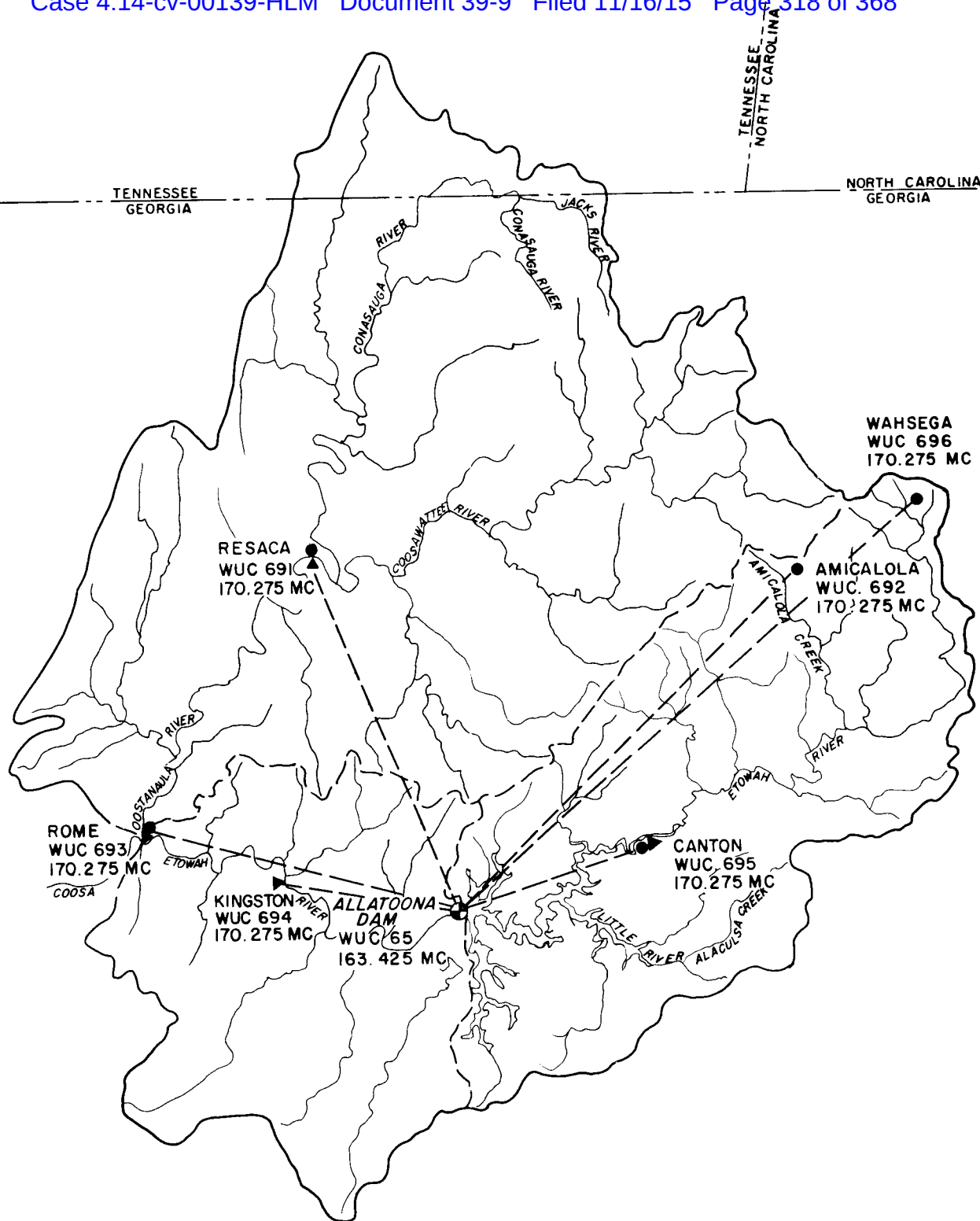


NOTE: WITH THE EXCEPTION OF THE PERIOD SEP. 1, 1938 TO DEC. 31, 1939, WHEN ACTUAL DISCHARGE WAS USED, ALL DAILY FLOWS AT THE SITE WERE OBTAINED BY INTERPOLATION BASED ON LIST OF RELEASES FROM RECORDS OF DIVISION OF THE STATE OF GEORGIA, AND THE FLOW AT THE SITE WAS NOT AVAILABLE AT THE TIME OF THE FLOOD.

ALABAMA POWER CO. REGIONAL RECORDING MANUAL
ALLATOONA RESERVOIR, ETOWAH RIVER, GA.
HYDROGRAPHS
AVERAGE DAILY DISCHARGE AT DAMSITE





**LEGEND**

- RAINFALL STATION
- ▲ RIVER STATION
- ⊕ RECEIVING STATION

ALABAMA - COOSA BASIN
RESERVOIR REGULATION MANUAL
ALLATOONA RESERVOIR, ETOWAH RIVER, GA.
AUTOMATIC RADIO REPORTING
HYDROLOGIC NETWORK

REPORTING INSTRUCTIONS

(River District Offices will cross out items not applicable)

RAINFALL STATION

TIMES OF OBSERVATION

1. Your regular daily observation of precipitation should be taken at 7 a.m. each day. (EMPTY NON-RECORDING RAIN GAGE AFTER EACH 7 A. M. OBSERVATION.)

2. Special observations when made should be taken at 1 p.m., 7 p.m., and 1 a.m. These special observations should be taken ONLY when a report is required in accordance with instructions (see below).

WHEN TO REPORT

1. Make an initial report at 7 a.m., 1 p.m., 7 p.m., or 1 a.m., whenever 0.50 or more of precipitation has accumulated in the rain gage.
2. After the first report has been made CONTINUE REPORTING at each observation time (1 p.m., 7 p.m., 1 a.m., 7 a.m.) as long as any additional precipitation

has occurred since your previous report.
3. If you have made a final report, but it begins to rain again in less than 24 hours start reporting again just as though you had not stopped. That is, you should not consider the storm to be over until there has been no precipitation for 24 hours.

WHAT TO REPORT

Your report should include the following information in the order listed (Numbers refer to WB Form 612-24):

- (1) Time of observation (hour).
- (2) Amount of precipitation in gage at time of observation, in figures (inches and hundredths).
- (3) Character of precipitation as it fell (rain, snow, sleet, etc.).
- (4) Amount of precipitation measured at PREVIOUS 7 A.M. OBSERVATION, in figures (inches and hundredths). This information should be sent ONLY in your first report of a series of reports. The amount, when sent, should always be preceded by "Previous 7 a.m." In subsequent reports omit this section entirely.
- (5) Weather at time of observation (clear, cloudy, raining, snowing, etc.).
(Disregard 6, 6a, 6b, if no snow on ground)

(6) Depth of newly fallen snow (to nearest inch). The figure should always be followed by the word "Inch" or "Inches".

(6a) Total depth of snow or ice (new plus old, if any) on ground, in figures (nearest inch). The figure showing depth should always be followed by the word "Inch" or "Inches".

(6b) Water equivalent of total snow on ground (inches and hundredths).

(12) Remarks. Any general comments which you feel would be of real value to the forecaster, such as: If snow is melting state whether slowly or rapidly. If thunderstorm or unusually heavy shower occurred within short period of time, give time of beginning and ending, etc. If instructed, include temperature readings, as "Max", "Min", and "Current".

(13) Last name of observer.

PREPARATION OF REPORT

1. The special River Rainfall Report card (WB Form 612-24) furnished will assist you in arranging your report in the proper order. This form has numbered blocks for each of the items to be reported by river and rainfall observers.
2. You should enter the designated information in blocks 1 through 6, 12, and 13. Each report must be complete. Your report will then be ready for transmission in message form as follows (Indicate on card whether report has been telephoned or telegraphed).

Sample messages:
(First of a series)--"7 A.M. 0.75 SNOW PREVIOUS
7 A.M. 0.25 CLOUDY 6 INCHES MELTING RAPIDLY
JONES"

(Subsequent reports)
"1 P.M. 0.30 RAIN CLOUDY 4 INCHES MELTING
RAPIDLY. JONES"
"7 P.M. 1.20 SHOWERS CLEAR THUNDERSTORM
4 P.M. JONES"

SENDING THE REPORT

Telephone number to call: _____

Telegraphic address: _____

1. All messages should be sent COLLECT.
2. If you customarily report by telephone and the lines are out of order report by telegram, if possible.

3. If you customarily report by telegram, use telephone when telegraph office is closed.

4. In an emergency, when all land lines of communication are out, contact your local or state police who may be able to transmit your report by police radio, or a local "HAM" radio operator.

5. If you have difficulty in getting your telephone call through to the Weather Bureau during periods of heavy rain or flood, tell your telephone operator that it is an EMERGENCY WEATHER REPORT.

NOTES

1. Promptly after each observation, mail the River Rainfall Report card which you have filled out, to _____

2. When additional supplies are needed, notify _____

3. SPECIAL INSTRUCTIONS: _____

USCOMM-WB-DC

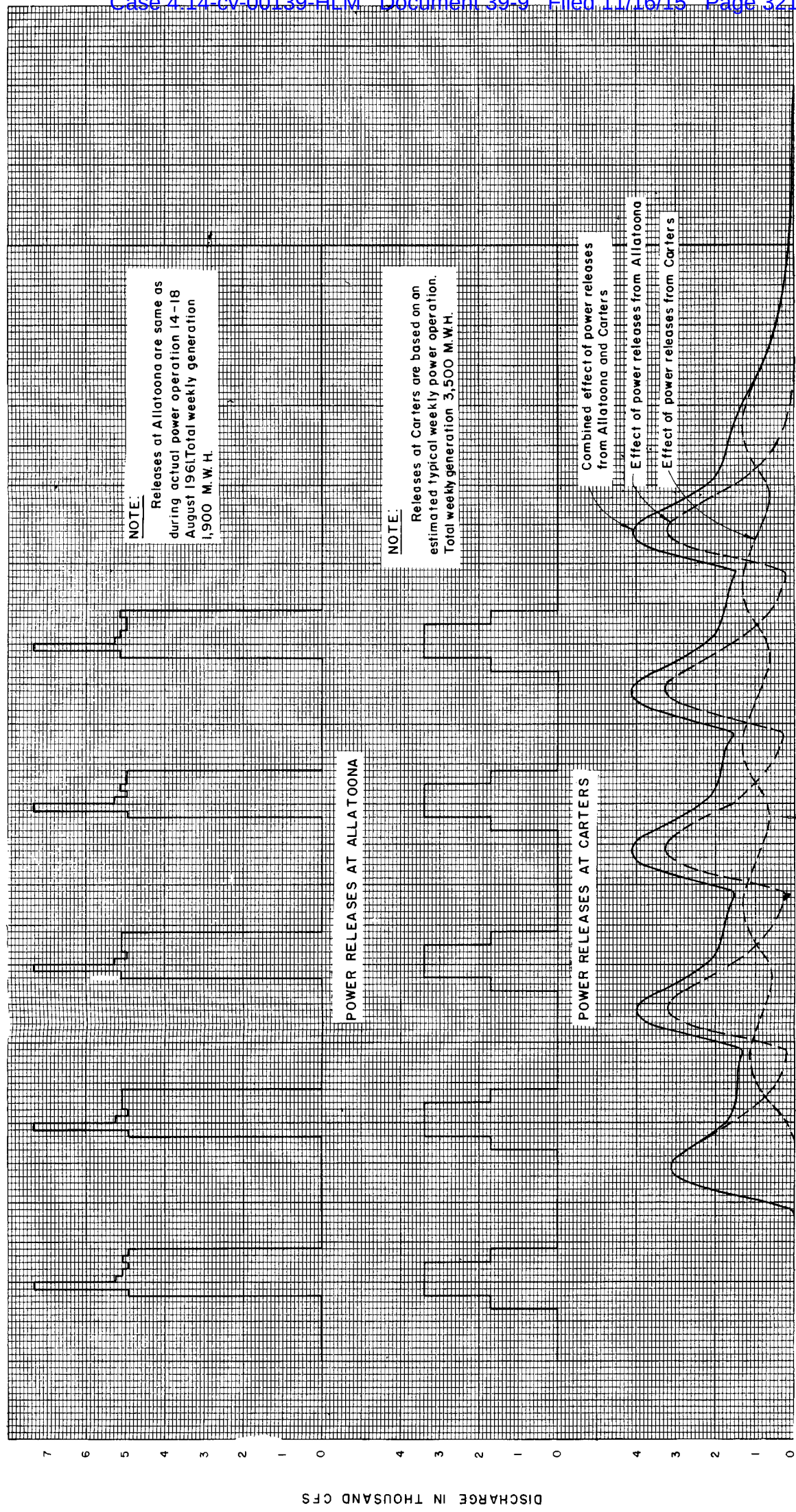
APPENDIX A CHART NO. 22

SAM AR001086

RAINFALL AND RIVER STAGE REPORTS

DAY _____ DATE _____

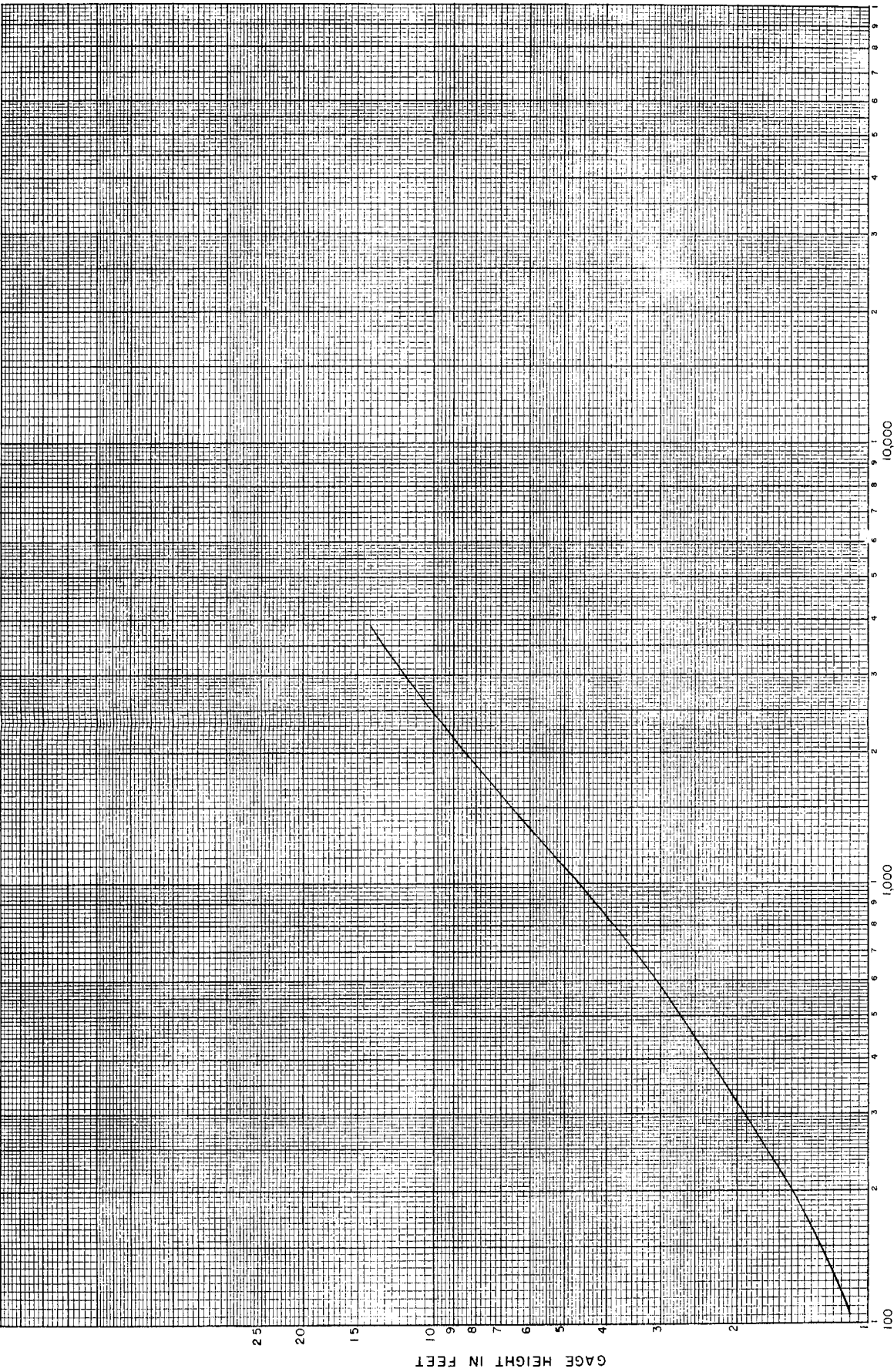
BASIN	STATION	7AM REPORT				1 PM REPORT				7 PM REPORT				BEGINNINGS & ENDINGS, CREST STAGES, SPECIAL READINGS, ETC.	
		TIME OF OBS.	24-HOUR RAIN	STATE OF WEA.	STORM TOTAL	RIVER STAGE	TIME OF OBS.	RAIN SINCE 7 AM	STATE OF WEA.	STORM TOTAL	RIVER STAGE	RAIN SINCE 7 AM	STATE OF WEA.		STORM TOTAL
ETOWAH ABOVE ALLATOONA	Wahsega														
	Dahlongega														
	Dahlongega (R)														
	Dawsonville														
	Amicalola (R)														
	Jasper														
	Ball Ground														
	Canton														
	Canton (R)														
	Waleska														
ETOWAH BELOW ALLATOONA	Woodstock														
	Allatoona Dam														
	Average														
	Cartersville														
	Dallas														
	Taylorville														
	Kingston														
	Cedartown														
	Average														
	OOSTANAULA	Conasauga													
Dalton															
Chatsworth															
Elijah															
Carters Dam															
Fairmount															
Resaca															
Resaca (R)															
Lafayette															
Adairsville															
COOSA	Curryville														
	Summerville														
	Rome Airport														
	Average														
	Rome														
	Rome (R)														
	Average														



HYDROGRAPHS AT ROME (5th AVE GAGE) GEORGIA

ALABAMA - COOSA BASIN
RESERVOIR REGULATION MANUAL
ALLATOONA RESERVOIR, ETOWAH RIVER GA.

EFFECT AT ROME OF POWER RELEASES
FROM ALLATOONA AND CARTERS

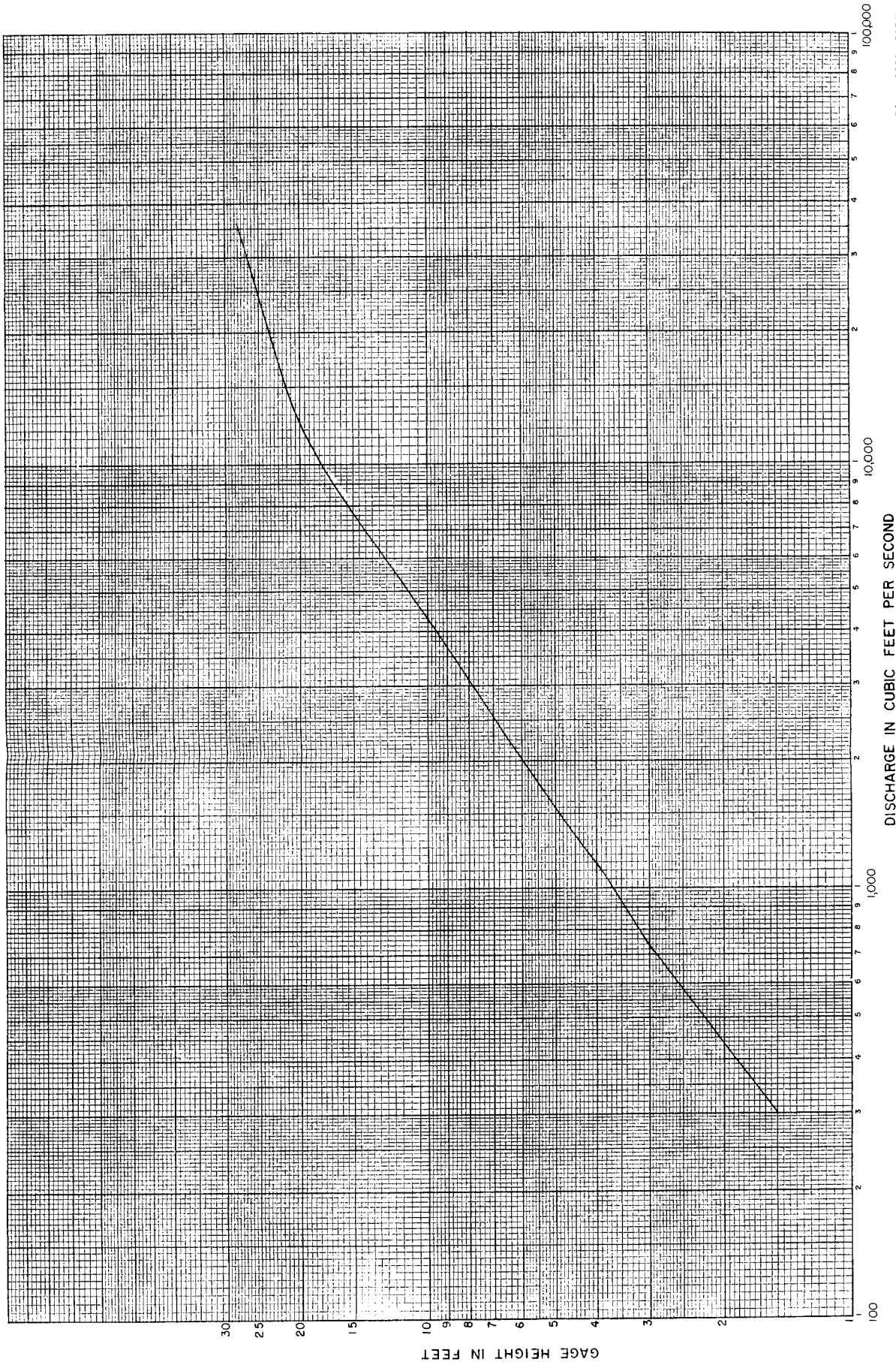


DISCHARGE IN CUBIC FEET PER SECOND

NOTE:
Elevation of gage zero is not available.

ALABAMA-COOSA BASIN
RESERVOIR REGULATION MANUAL
ALLATOONA RESERVOIR, ETOWAH RIVER, GA.
RATING CURVE
FOR
ETOWAH RIVER NEAR
DAWSONVILLE, GA.
DRAINAGE AREA 103 SQUARE MILES

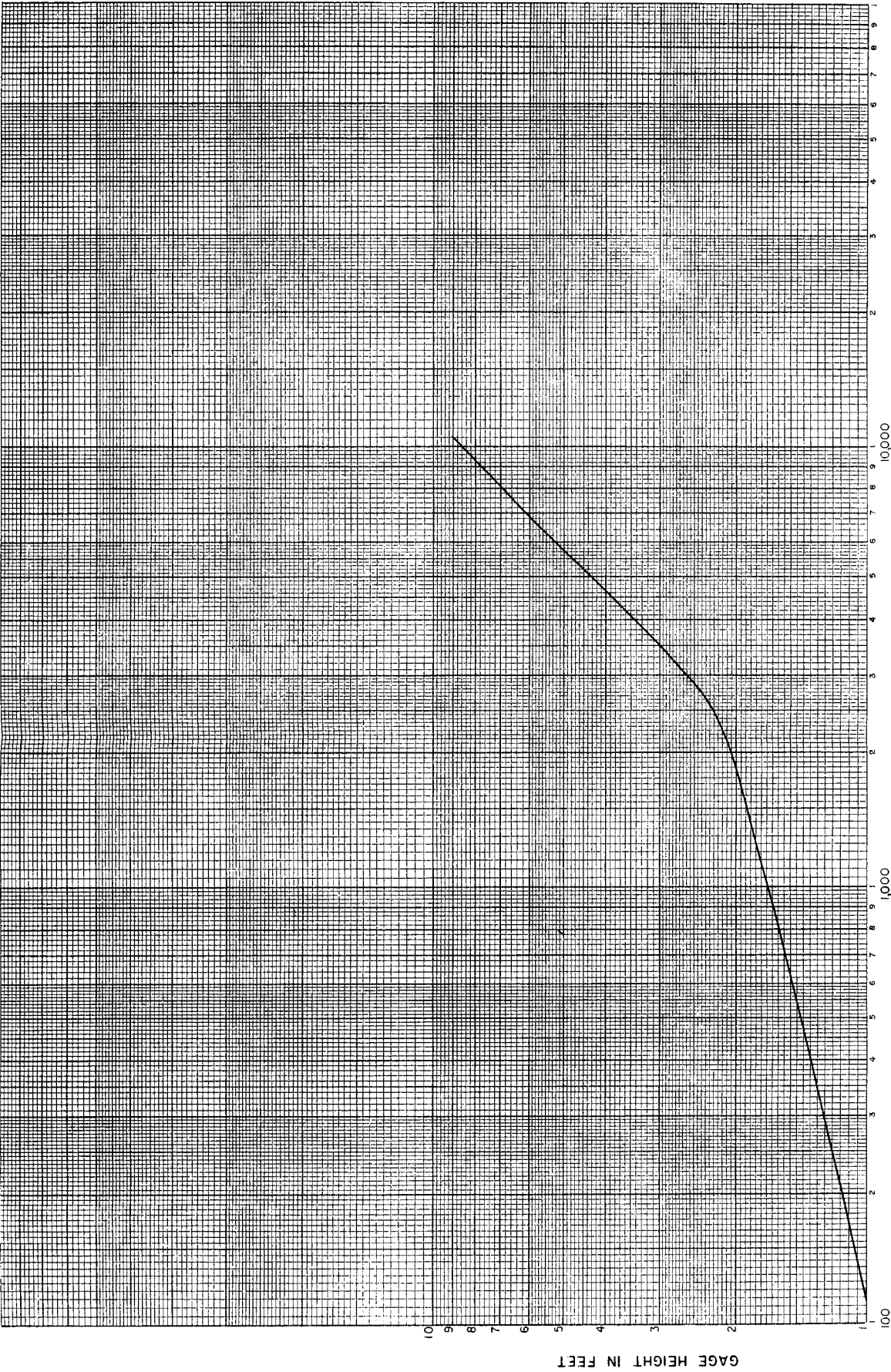
CORPS OF ENGINEERS



NOTE: Elevation of gage zero is 844.6 FT. MSL

DISCHARGE IN CUBIC FEET PER SECOND

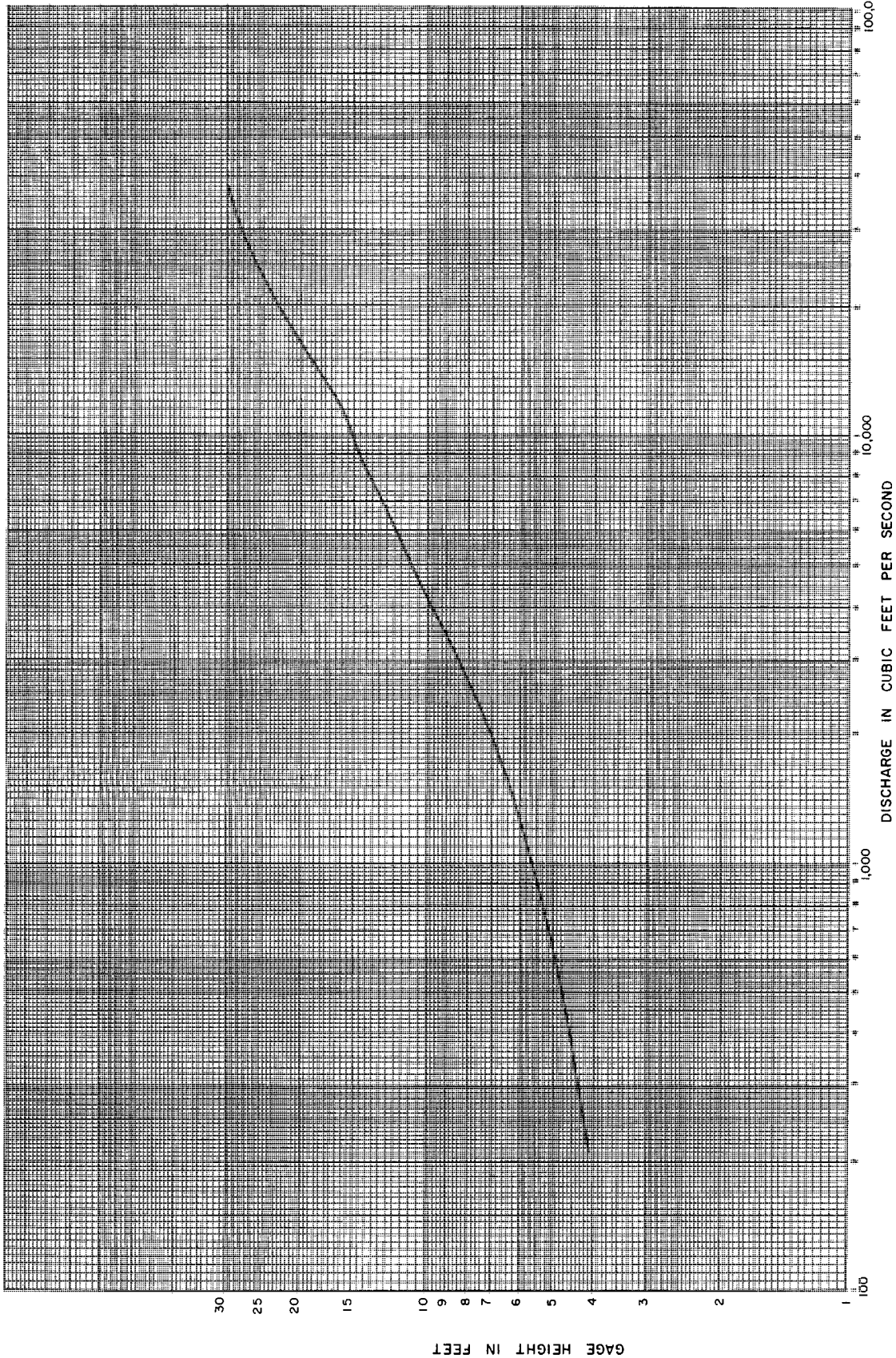
ALABAMA-COOSA BASIN
RESERVOIR REGULATION MANUAL
ALLATOONA RESERVOIR, ETOWAH RIVER, GA.
RATING CURVE
FOR
ETOWAH RIVER AT
CANTON, GA.
DRAINAGE AREA 605 SQUARE MILES



DISCHARGE IN CUBIC FEET PER SECOND

ALABAMA-COOSA BASIN
RESERVOIR REGULATION MANUAL
ALLATOONA RESERVOIR, ETOWAH RIVER, GA.
RATING CURVE
FOR
ETOWAH RIVER AT
ALLATOONA DAM (Near Cartersville, Ga.)
DRAINAGE AREA 1,110 SQUARE MILES

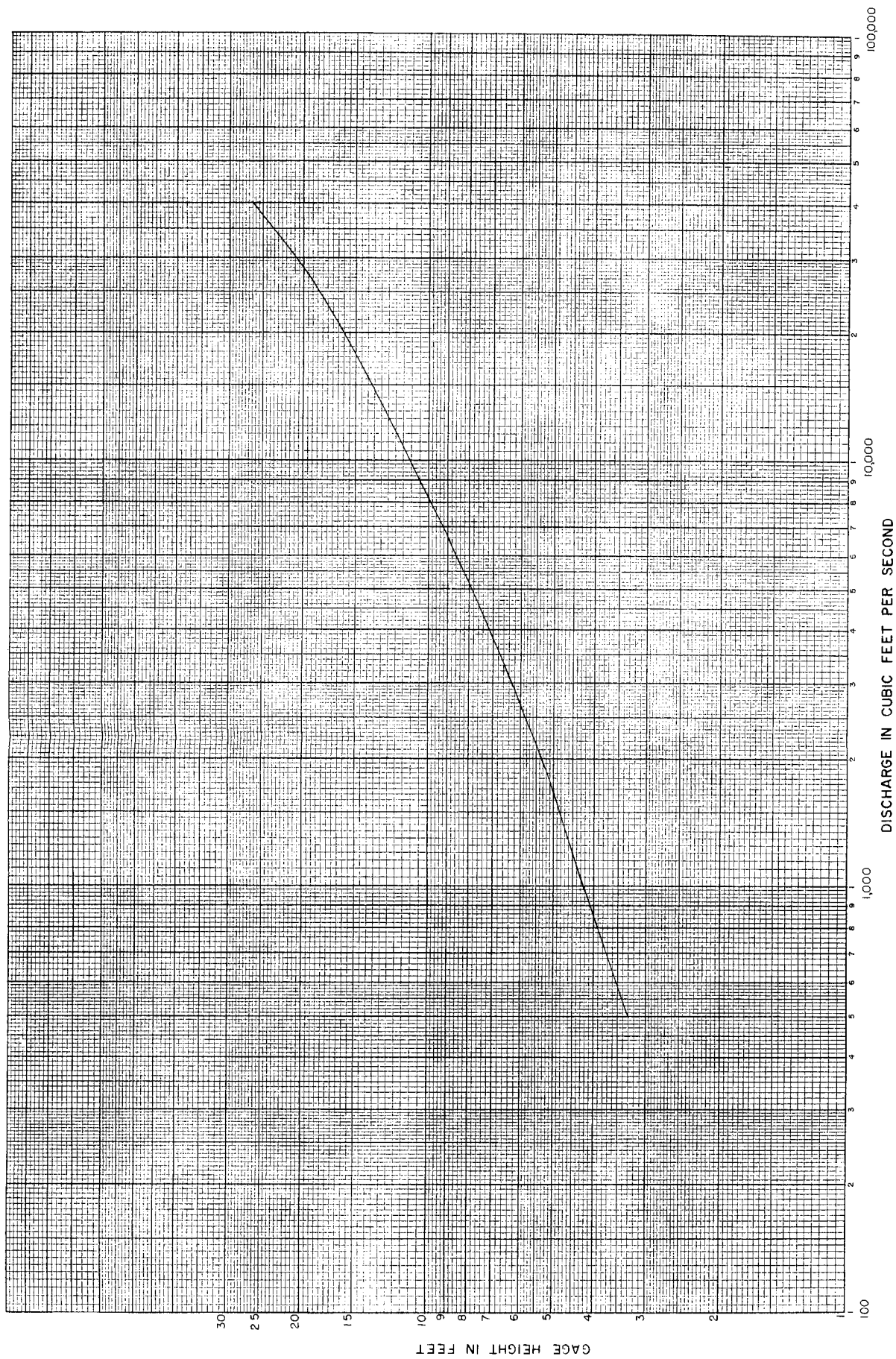
NOTE:
Elevation of gage zero is 686.9 FT. MSL



NOTE:

Elevation of gage zero is 650.9 Ft. M.S.L.

ALABAMA-COOSA RIVER
RESERVOIR REGULATION MANUAL
ALLATOONA RESERVOIR, ETOWAH RIVER, GA.
RATING CURVE
FOR
ETOWAH RIVER NEAR
CARTERSVILLE, GA.-HWY 61
DRAINAGE AREA 1,330 SQUARE MILES



NOTE:

Elevation of gage zero is 610.0 FT. MSL

DISCHARGE IN CUBIC FEET PER SECOND

100,000

10,000

1,000

100

ALABAMA-COOSA BASIN

RESERVOIR REGULATION MANUAL

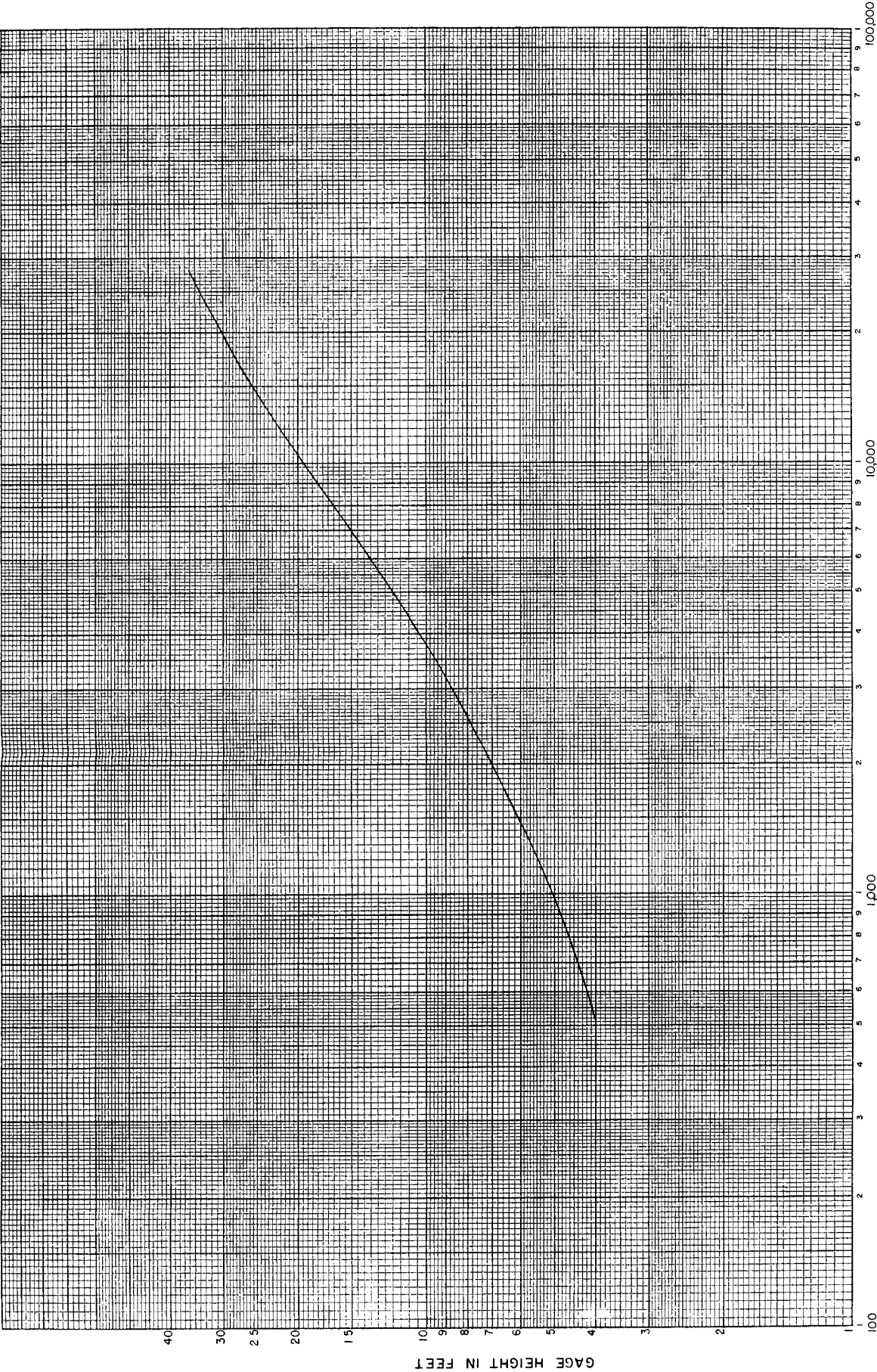
ALLATOONA RESERVOIR, ETOWAH RIVER, GA.

RATING CURVE
FOR

ETOWAH RIVER AT
KINGSTON, GA.

DRAINAGE AREA 1,630 SQUARE MILES

CORPS OF ENGINEERS

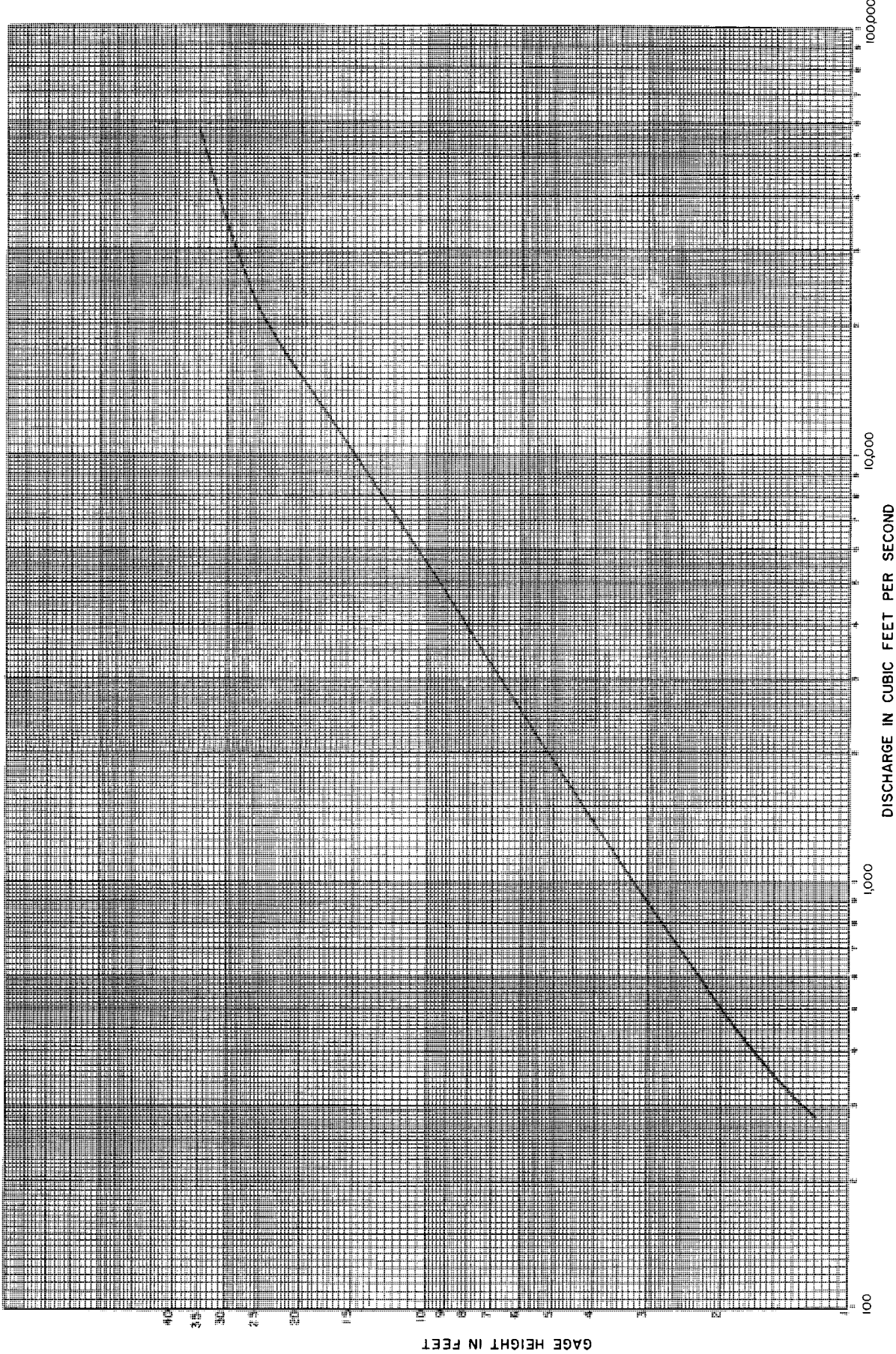


DISCHARGE IN CUBIC FEET PER SECOND

NOTE:

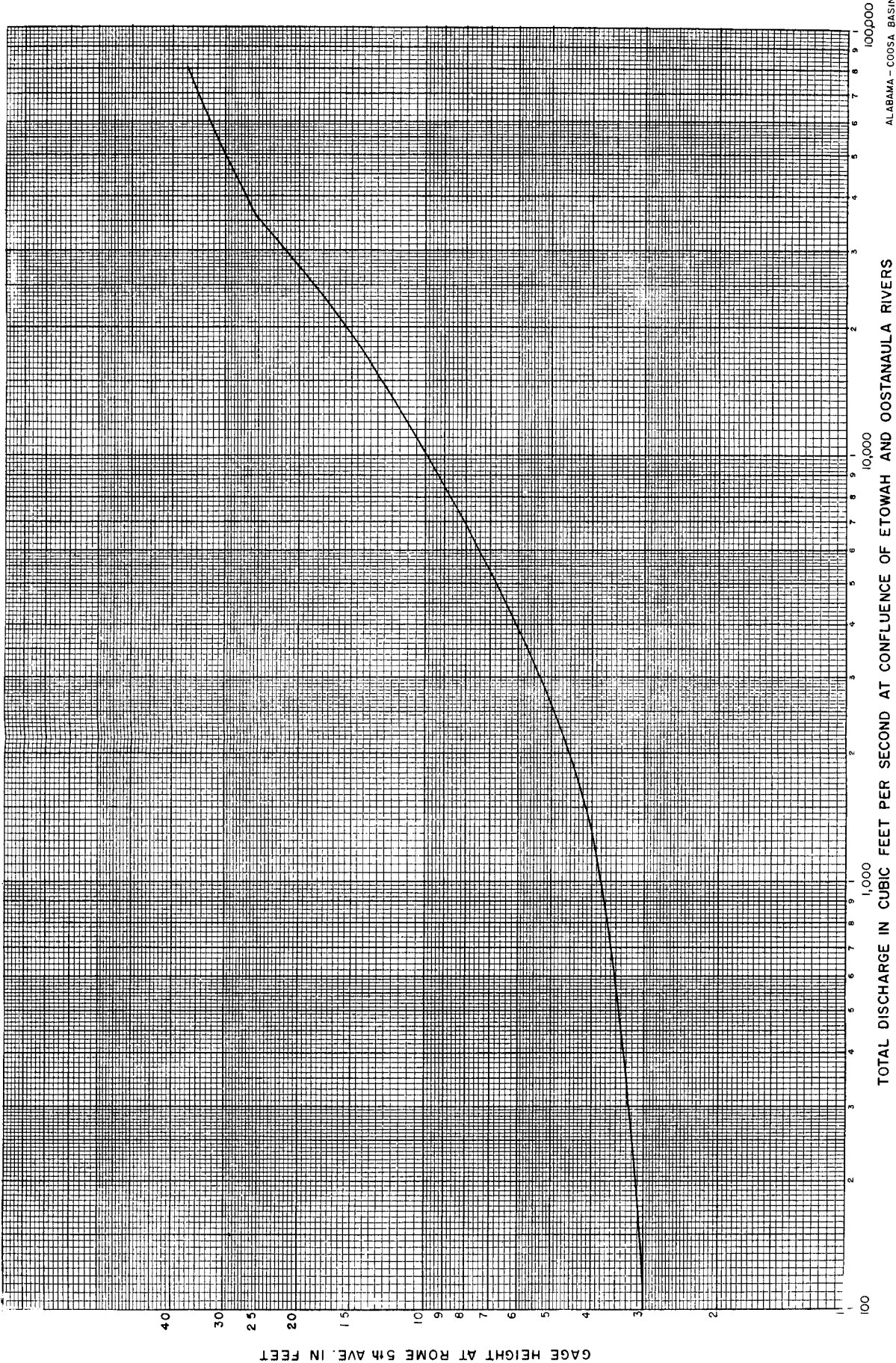
Elevation of gage zero is 561.7 FT. MSL

ALABAMA - COOSA BASIN
RESERVOIR REGULATION MANUAL
ALLATOONA RESERVOIR, ETOWAH RIVER, GA.
RATING CURVE
FOR
ETOWAH RIVER AT
ROME, GA.
DRAINAGE AREA 1,810 SQUARE MILES



NOTE:
Elevation of gage zero is 604.1 FT. MSL

ALABAMA-COOSA BASIN
RESERVOIR REGULATION MANUAL
ALLATOONA RESERVOIR, ETOWAH RIVER, GA.
RATING CURVE
FOR
OOSTANAUULA RIVER AT
RESACA, GA.
DRAINAGE AREA 1,610 SQUARE MILES

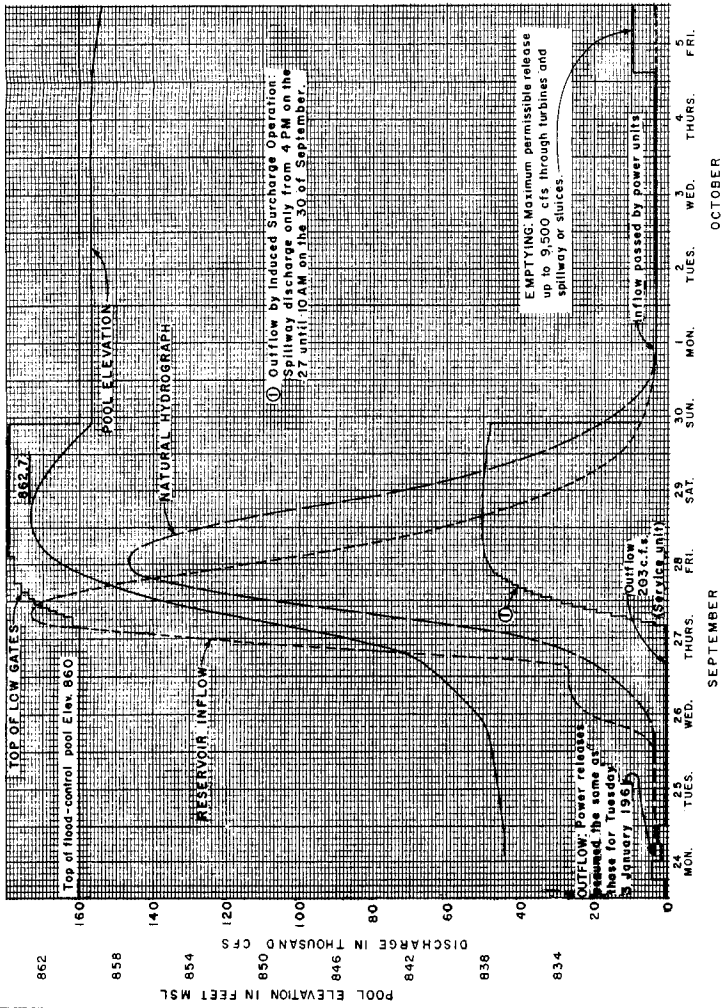


NOTE:

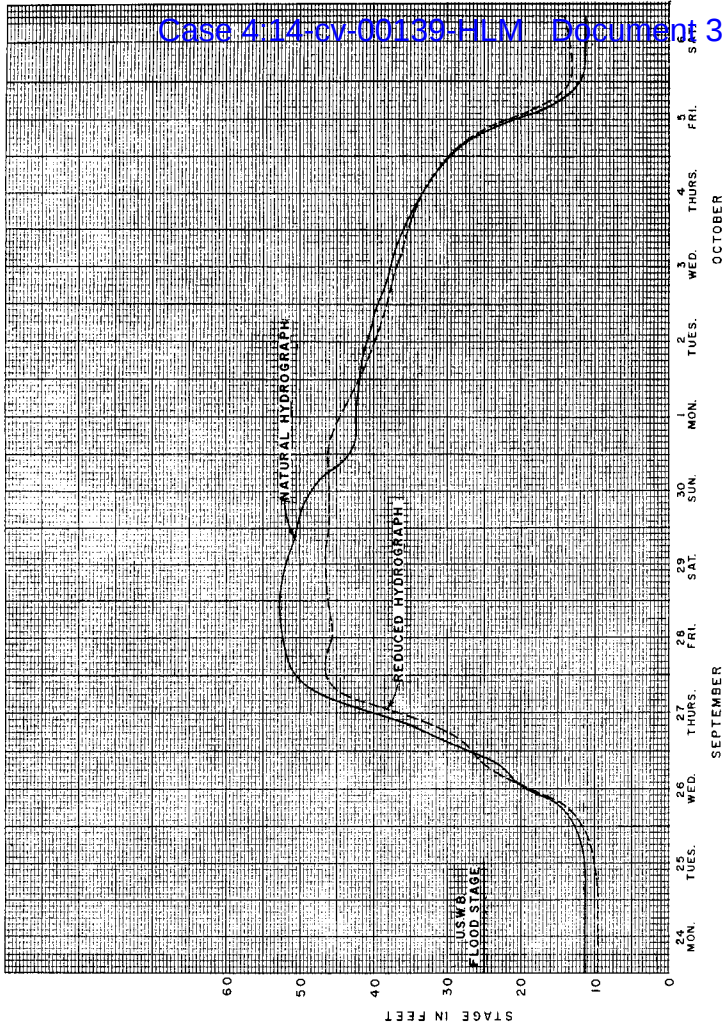
Elevation of gage zero is 561.7 FT. MSL

ALABAMA - COOSA BASIN
RESERVOIR REGULATION MANUAL
ALLATOONA RESERVOIR, ETOWAH RIVER, GA
RATING CURVE
FOR

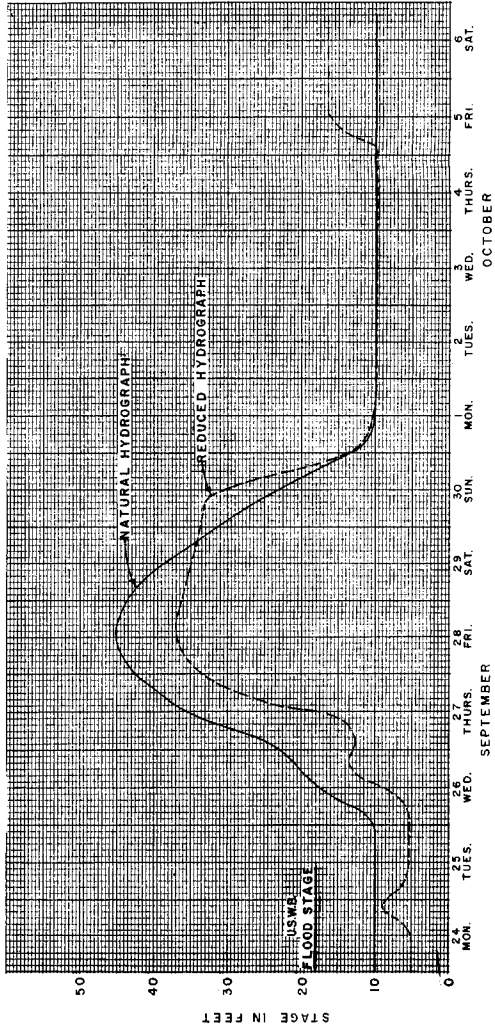
RELATION OF STAGE AT ROME
5th AVENUE TO DISCHARGE AT
CONFLUENCE OF ETOWAH AND
OOSTANAULA RIVERS



ALLATOONA RESERVOIR



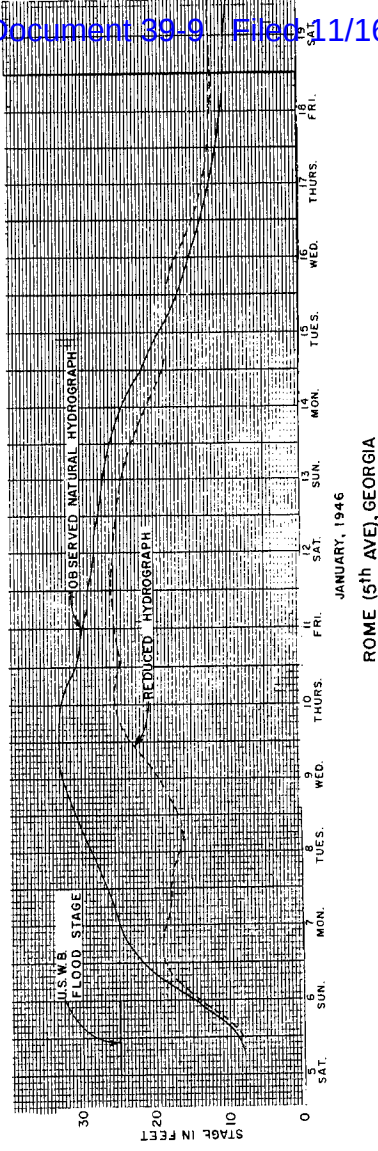
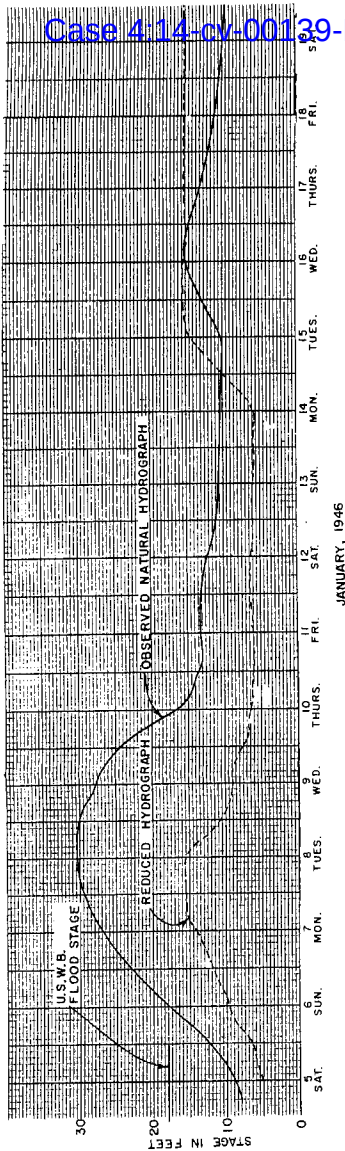
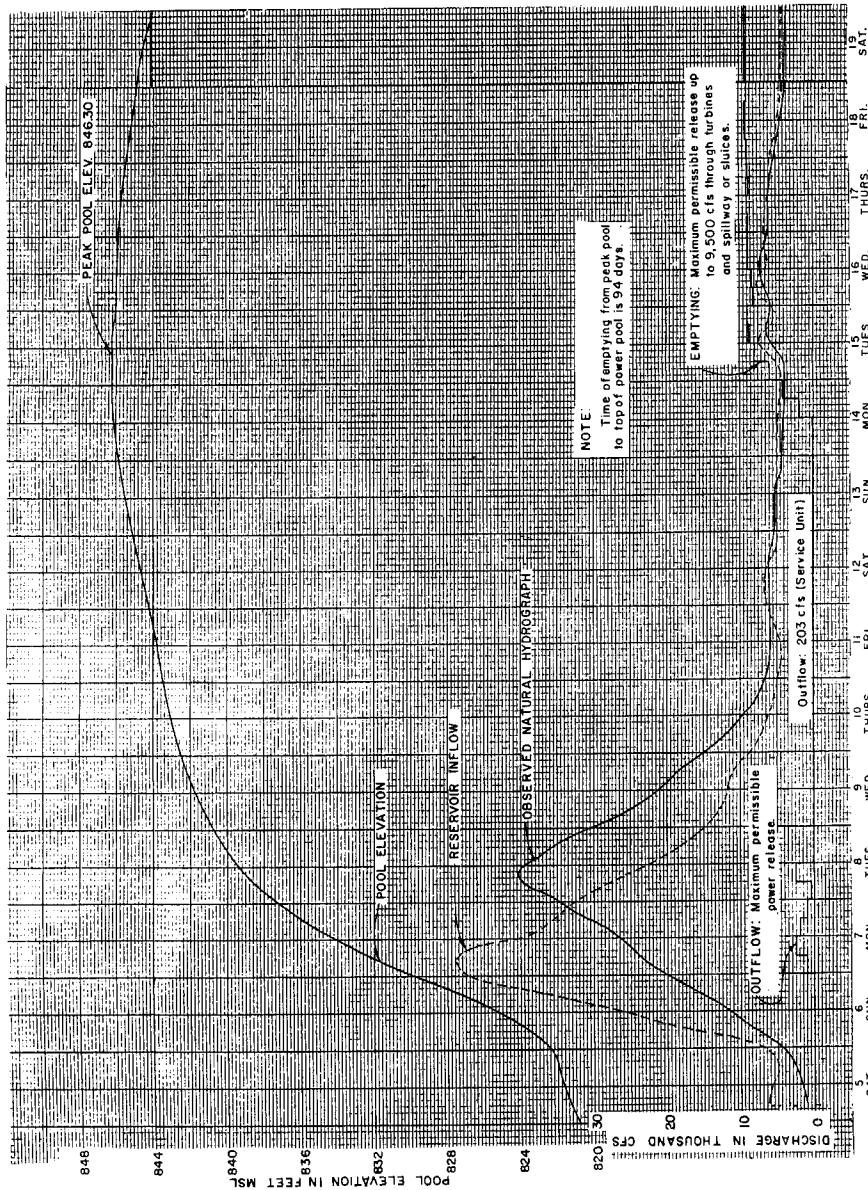
ROME (5th AVE), GEORGIA



CARTERSVILLE, GEORGIA

ALABAMA-COOSA BASIN
RESERVOIR REGULATION MANUAL
ALLATOONA RESERVOIR, ETOWAH RIVER GA.

EFFECT OF RESERVOIR REGULATION
STANDARD PROJECT FLOOD

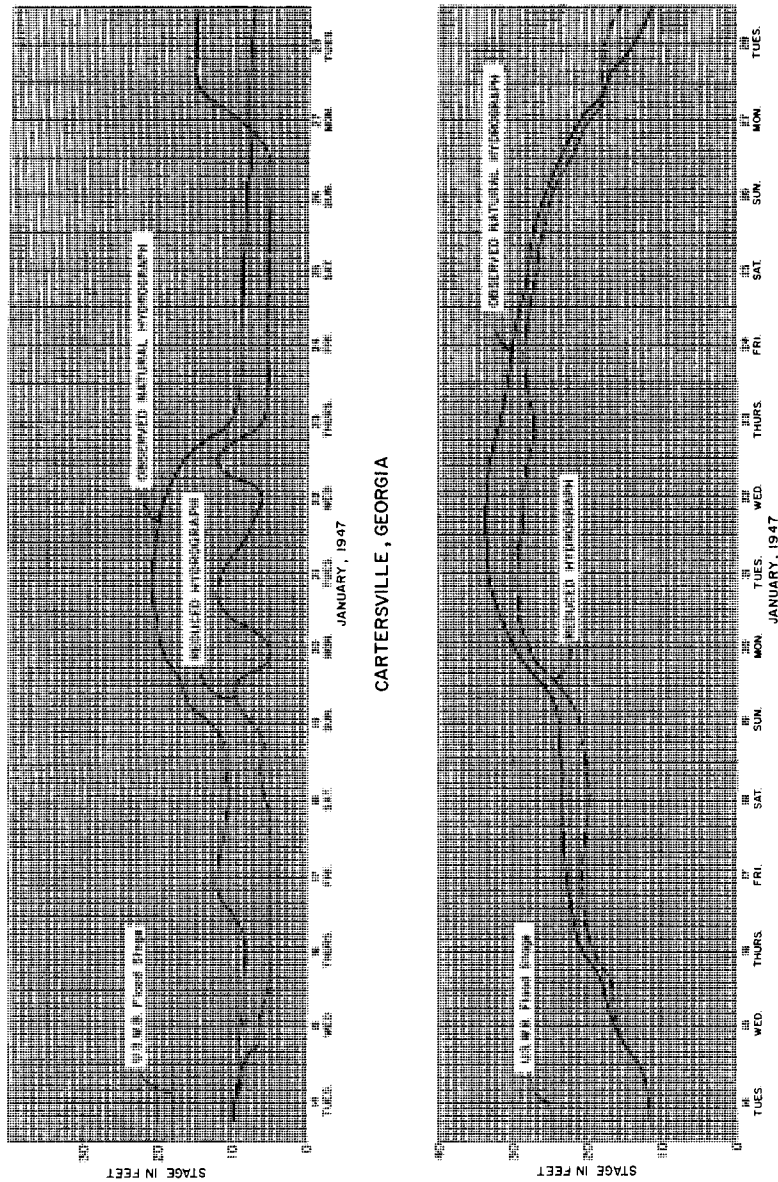
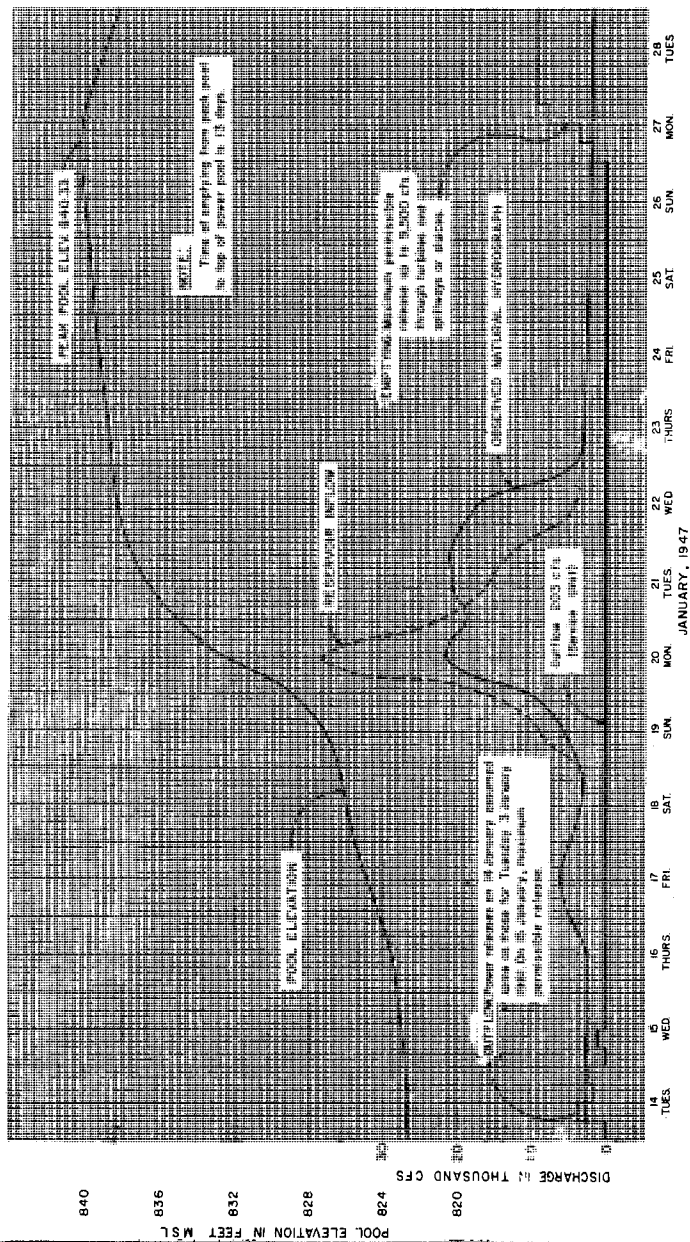


ALLATOONA RESERVOIR

ALABAMA - COOSA BASIN
RESERVOIR REGULATION MANUAL
ALLATOONA RESERVOIR, ETOWAH RIVER GA.
EFFECT OF RESERVOIR REGULATION
FLOOD OF JANUARY, 1946

CORPS OF ENGINEERS

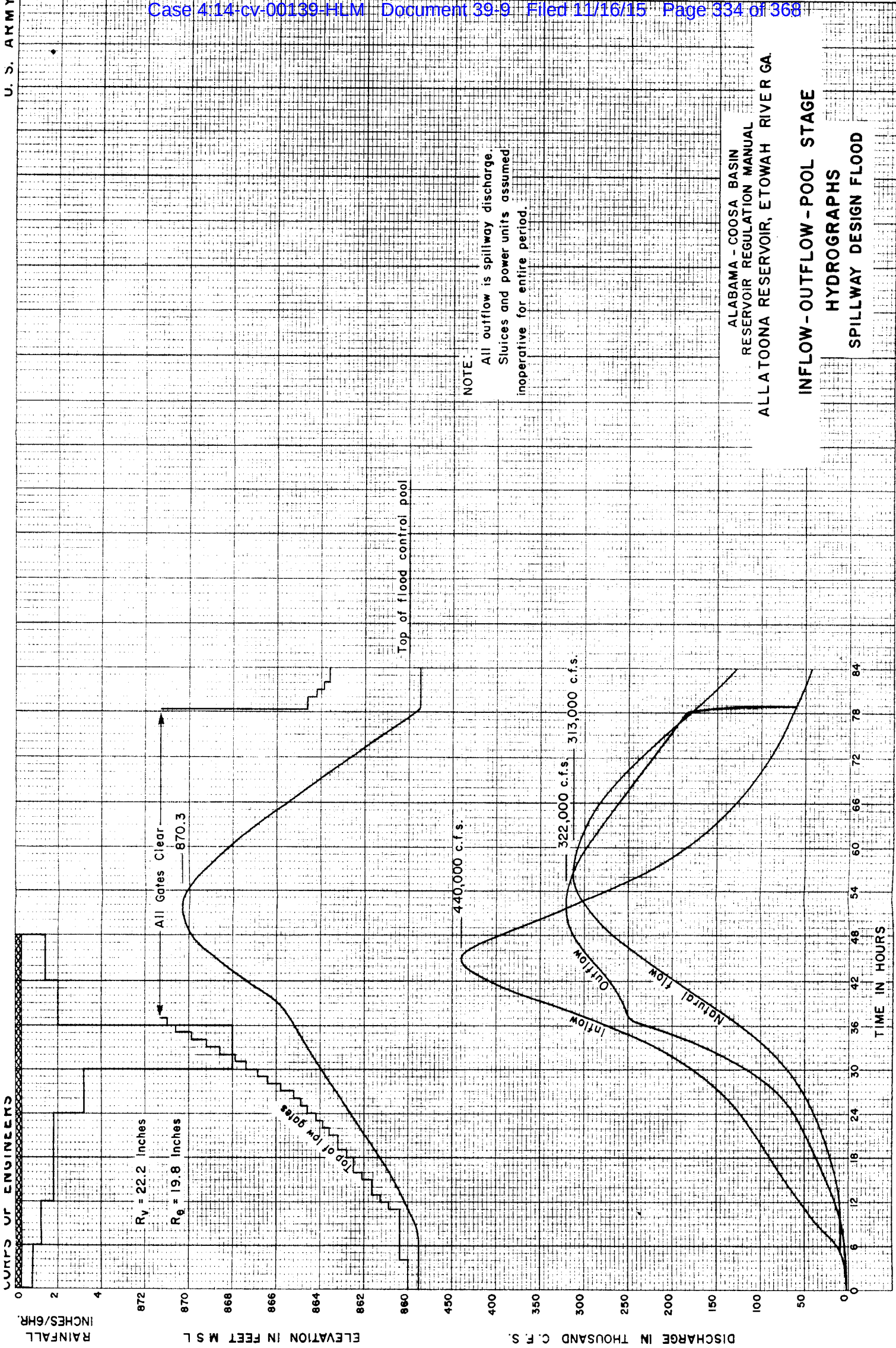
U.S. ARMY

ROME (5th AVE), GEORGIA

ALABAMA - COOSA BASIN
RESERVOIR REGULATION MANUAL
ALLATOONA RESERVOIR, ETOWAH RIVER GA.

EFFECT OF RESERVOIR REGULATION: FLOOD OF JANUARY, 1947

FLOOD OF JANUARY, 1947



NOTE:
All outflow is spillway discharge.
Sluices and power units assumed
inoperative for entire period.

ALABAMA - COOSA BASIN
RESERVOIR REGULATION MANUAL
ALLATOONA RESERVOIR, ETOWAH RIVER GA.

INFLUX - OUTFLOW - POOL STAGE
HYDROGRAPHS
SPILLWAY DESIGN FLOOD

SAM AR001102-SAM AR001102

1734

NOTICES

- (1) Lands lying above the storage pool.
- (2) Lands in remote portions of the project area.

(3) Lands determined by the Fish and Wildlife Service or the National Park Service respectively to be of no substantial value for protection or enhancement of fish and wildlife resources, or for public outdoor recreation.

(4) It is to the financial advantage of the Government to take easements in lieu of fee title.

D. *Blocking out.* Blocking out will be accomplished in accordance with sound real estate practices, for example, on minor sectional subdivision lines; and normally, land will not be acquired to avoid severance damage if the owner will waive such damage.

E. *Mineral rights.* Mineral, oil and gas rights will not be acquired except where the development thereof would interfere with project purposes, but mineral rights not acquired will be subordinated to the Government's right to regulate their development in a manner that will not interfere with the primary purposes of the project, including public access.

F. *Buildings.* Buildings for human occupancy as well as other structures which would interfere with the operation of the project for any project purpose will be prohibited on reservoir project lands.

STEWART L. UDALL,
Secretary of the Interior.

FEBRUARY 16, 1962.

[F.R. Doc. 62-1906; Filed, Feb. 21, 1962;
10:48 a.m.]

JOINT POLICIES OF THE DEPARTMENTS OF THE INTERIOR AND OF THE ARMY RELATIVE TO RESERVOIR PROJECT LANDS

Acquisition of lands for reservoir projects. In so far as permitted by law, it is the policy of the Departments of the Interior and of the Army to acquire, as a part of reservoir project construction, adequate interest in lands necessary for the realization of optimum values for all purposes including additional land areas to assure full realization of optimum present and future outdoor recreational and fish and wildlife potentials of each reservoir.

1. *Lands for reservoir construction and operation.* The fee title will be acquired to the following:

a. Lands necessary for permanent structures.

b. Lands below the maximum flowage line of the reservoir including lands below a selected freeboard where necessary to safeguard against the effects of saturation, wave action, and bank erosion and to permit induced surcharge operation.

c. Lands needed to provide for public access to the maximum flowage line as described in paragraph 1b, or for operation and maintenance of the project.

2. *Additional lands for correlative purposes.* The fee title will be acquired for the following:

a. Such lands as are needed to meet present and future requirements for fish and wildlife as determined pursuant to the Fish and Wildlife Coordination Act.

b. Such lands as are needed to meet present and future public requirements for outdoor recreation, as may be authorized by Congress.

3. *Easements in lieu of fee title* may be taken only for lands that meet all of the following conditions:

a. Lands lying above the storage pool.

b. Lands in remote portions of the project area.

c. Lands determined to be of no substantial value for protection or enhancement of fish and wildlife resources, or for public outdoor recreation.

d. It is to the financial advantage of the Government to take easements in lieu of fee title.

4. *Blocking out.* Blocking out will be accomplished in accordance with sound real estate practices, for example, on minor sectional subdivision lines; and normally, land will not be acquired to avoid severance damage if the owner will waive such damage.

5. *Mineral rights.* Mineral, oil and gas rights will not be acquired except where the development thereof would interfere with project purposes, but mineral rights not acquired will be subordinated to the Government's right to regulate their development in a manner that will not interfere with the primary purposes of the project, including public access.

6. *Buildings.* Buildings for human occupancy as well as other structures which would interfere with the operation of the project for any project purpose will be prohibited on reservoir project lands.

This joint agreement will be published in the FEDERAL REGISTER.

Approved: February 16, 1962.

STEWART L. UDALL,
Secretary of the Interior.
STEPHEN AILES,
Acting Secretary of the Army.

FEBRUARY 19, 1962.

[F.R. Doc. 62-1907; Filed, Feb. 21, 1962;
10:48 a.m.]

DEPARTMENT OF AGRICULTURE

Office of the Secretary

MISSISSIPPI

Designation of Area for Emergency Loans

For the purpose of making emergency loans pursuant to section 321(a) of Public Law 87-128 (7 U.S.C. 1961) it has been determined that in Wayne County, Mississippi, natural disasters have caused a need for agricultural credit not readily available from commercial banks, cooperative lending agencies, or other responsible sources.

Pursuant to the authority set forth above, emergency loans will not be made in the above-named county after June 30, 1962, except to applicants who previously received emergency or special livestock loan assistance and who can qualify under established policies and procedures.

Done at Washington, D.C., this 16th day of February 1962.

ORVILLE L. FREEMAN,
Secretary.

[F.R. Doc. 62-1813; Filed, Feb. 21, 1962;
8:48 a.m.]

NORTH CAROLINA

Designation of Areas for Emergency Loans

For the purpose of making emergency loans pursuant to section 321(a) of Public Law 87-128 (7 U.S.C. 1961) it has been determined that in the hereinafter named counties in the State of North Carolina, natural disasters have caused a need for agricultural credit not readily available from commercial banks, cooperative lending agencies, or other responsible sources.

NORTH CAROLINA

Camden.	Pasquotank.
Chowan.	Perquimans.
Currituck.	Tyrrell.
Hyde.	Washington.

Pursuant to the authority set forth above, emergency loans will not be made in the above-named counties after June 30, 1962, except to applicants who previously received emergency or special livestock loan assistance and who can qualify under established policies and procedures.

Done at Washington, D.C., this 16th day of February 1962.

ORVILLE L. FREEMAN,
Secretary.

[F.R. Doc. 62-1814; Filed, Feb. 21, 1962;
8:48 a.m.]

Rural Electrification Administration ORGANIZATION AND FUNCTIONS

The organization of the Rural Electrification Administration is as follows:

Central Organization. The principal office of the Rural Electrification Administration is at Washington, D.C. The function of the Agency is the carrying out of a program of rural electrification and rural telephony, as provided for by the Rural Electrification Act of 1936, as amended (7 U.S.C. 901-15, 921-924).

The Administrator. The Administrator is appointed by the President, with the advice and consent of the Senate, for a term of ten years. He functions as the chief administrative official of the Agency under the general supervision and direction of the Director, Agricultural Credit. He is aided directly by a Deputy Administrator, and Assistant Administrators for the Electric Program, for the Telephone Program, and for Operations. The work is carried on through the area offices and divisions, described in succeeding paragraphs.

Electric Area Offices. The rural electrification program for electric distribution borrowers is administered through five area offices designated as Northeast, Southeast, North Central, Southwest and Western. Each office within its assigned geographic area: Appraises loan applications and prepares loan recommendations; reviews the financial and operating performance of borrowers; analyzes engineering plans, specifications and construction contracts; reviews and approves completed construction; provides advice and assistance to borrowers concerning loans and the design, construction, management, operation and maintenance of systems.

SAM AR001102

SAM AR001103-SAM AR001105

8496

endar quarter of 1959 over unrated orders and other ACM orders.

Sec. 5. Applicability of other regulations and orders.

The provisions of the DMS regulations, BDSA Order M-1A, and of any other BDSA regulations and orders as heretofore issued, including the directions and amendments thereto, are superseded to the extent to which they are inconsistent with the provisions of this direction. In all other respects the provisions of such regulations, orders, directions and amendments shall remain in full force and effect.

This direction shall take effect October 16, 1959.

BUSINESS AND DEFENSE
SERVICES ADMINISTRATION,
H. B. McCoy,
Administrator.

[F.R. Doc. 59-8821; Filed, Oct. 20, 1959;
8:45 a.m.]

Title 36—PARKS, FORESTS, AND MEMORIALS

Chapter III—Corps of Engineers, Department of the Army

PART 311—PUBLIC USE OF CERTAIN RESERVOIR AREAS

Republication of Part

Part 311 of Title 36 is republished in its entirety. The provisions with respect to areas covered contained in § 311.1, and the provisions with respect to hunting in § 311.6(b) have been rearranged alphabetically by States. No substantive change is made by this republication.

- Sec.**
- 311.1 Areas covered.
 - 311.2 Boats, commercial.
 - 311.3 Boats and other vessels, private.
 - 311.4 Mooring, care and sanitation of boats and floating facilities.
 - 311.5 Swimming and bathing.
 - 311.6 Hunting and fishing.
 - 311.7 Camping.
 - 311.8 Picnicking.
 - 311.9 Access to water areas.
 - 311.10 Destruction of public property.
 - 311.11 Firearms and explosives.
 - 311.12 Gasoline and oil storage.
 - 311.13 Sanitation.
 - 311.14 Advertisements.
 - 311.15 Unauthorized solicitations and business activities.
 - 311.16 Commercial operations.
 - 311.17 Dogs.
 - 311.18 Recreational activity programs.
 - 311.19 Abandonment of personal property.

AUTHORITY: §§ 311.1 to 311.19 issued under sec. 4, 58 Stat. 889, as amended; 16 U. S. C. 460d.

§ 311.1 Areas covered.

The regulations contained in this part shall be applicable to:

Arkansas

Blakely Mountain Reservoir Area (Lake Ouachita), Ouachita River.
Blue Mountain Reservoir Area, Petit Jean River.
Bull Shoals Reservoir Area, White River.
Narrows Reservoir Area, Little Missouri River.

RULES AND REGULATIONS

Nimrod Reservoir Area, Fourche La Pave River.
Norfolk Reservoir Area, North Fork River.
Table Rock Reservoir Area, White River.

California

Harry L. Englebright Reservoir Area, Yuba River.
Isabella Reservoir Area, Kern River.
North Fork Reservoir Area, North Fork American River.
Pine Flat Reservoir Area, Kings River.

Colorado

Cherry Creek Reservoir Area, Cherry Creek.
John Martin Reservoir Area, including Lake Hasty, Arkansas River.

Georgia

Allatoona Reservoir Area, Etowah River.
Buford Reservoir Area (Lake Sidney Lanier), Chattahoochee River.
Clark Hill Reservoir Area, Savannah River.

Idaho

Lucky Peak Reservoir Area, Boise River.

Iowa

Coralville Reservoir Area, Iowa River.

Kansas

Fall River Reservoir Area, Fall River.
Hulah Reservoir Area, Caney River.
Kanopolis Reservoir Area, Smoky Hill River.
Toronto Reservoir Area, Verdigris River.

Kentucky

Dale Hollow Reservoir Area, Obey River.
Dewey Reservoir Area, Johns Creek.
Wolf Creek Reservoir Area, Cumberland River.

Maryland

Youghiogheny River Reservoir Area, Youghiogheny River.

Mississippi

Arkabutla Reservoir Area, Coldwater River.
Enid Reservoir Area, Yocoma River.
Grenada Reservoir Area, Yalobusha and Skuna Rivers.
Sardia Reservoir Area, Little Tallahatchie River.

Missouri

Bull Shoals Reservoir Area, White River.
Clearwater Reservoir Area, Black River.
Norfolk Reservoir Area, North Fork River.
Table Rock Reservoir Area, White River.
Wappapello Reservoir Area, St. Francis River.

Montana

Fort Peck Reservoir Area, Missouri River.

Nebraska

Gavins Point Reservoir Area (Lewis and Clark Lake), Missouri River.
Harlan County Reservoir Area, Republican River.

North Carolina

John H. Kerr Reservoir Area, Roanoke River.

North Dakota

Baldhill Dam and Lake Ashtabula, Sheyenne River.
Garrison Reservoir Area, Missouri River.
Hombre Reservoir Area, Park River.

Ohio

Berlin Reservoir Area, Mahoning River.
Dillon Reservoir Area, Licking River.

Oklahoma

Canton Reservoir Area, North Canadian River.
Fort Gibson Reservoir Area, Grand (Neosho) River.
Fort Supply Reservoir Area, Wolf Creek.
Heyburn Reservoir Area, Polecreek Creek.

Hulah Reservoir Area, Caney River.
Lake Texoma and the Denison Reservoir Area, Red River.
Tenkiller Ferry Reservoir Area, Illinois River.
Wister Reservoir Area, Poteau River.

Oregon

Cottage Grove Reservoir Area, Coast Fork of Willamette River.
Dexter Reservoir Area, Middle Fork Willamette River.
Dorena Reservoir Area, Row River.
Fern Ridge Reservoir Area, Long Tom River.
Lookout Point Reservoir Area, Middle Fork Willamette River.

Pennsylvania

Conemaugh River Reservoir Area, Conemaugh River.
Crooked Creek Reservoir Area, Crooked Creek.
Loyalhanna Reservoir Area, Loyalhanna Creek.
Mahoning Creek Reservoir Area, Mahoning Creek.
Tionesta Reservoir Area, Tionesta Creek.
Youghiogheny River Reservoir Area, Youghiogheny River.

South Carolina

Clark Hill Reservoir Area, Savannah River.

South Dakota

Fort Randall Reservoir Area, Missouri River.
Gavins Point Reservoir Area (Lewis and Clark Lake), Missouri River.

Tennessee

Center Hill Reservoir Area, Caney Fork River.
Dale Hollow Reservoir Area, Obey River.

Texas

Belton Reservoir Area, Leon River.
Benbrook Reservoir Area, Clear Fork of the Trinity River.
Dam B Reservoir Area, Neches River.
Ferrells Bridge Reservoir Area, Cypress Creek.
Garza-Little Elm (Lewisville) Reservoir Area, Elm Fork, Trinity River.
Grapevine Reservoir Area, Denton Creek.
Hords Creek Reservoir Area, Hords Creek.
Lake Texoma and the Denison Reservoir Area, Red River.
Lavon Reservoir Area, East Fork Trinity River.
San Angelo Reservoir Area, North Concho River.
Texarkana Reservoir Area, Sulphur River.
Whitney Reservoir Area, Brazos River.

Virginia

Bluestone Reservoir Area, New River.
John H. Kerr Reservoir Area, Roanoke River.
Philpott Reservoir Area, Smith River.

West Virginia

Bluestone Reservoir Area, New River.

§ 311.2 Boats, commercial.

No boat, barge or other vessel shall be placed upon or operated upon any water of the reservoir for a fee or profit, either as a direct charge to a second party or as an incident to other services provided to the second party, except as specifically authorized by lease, license, or concession contract with the Department of the Army.

§ 311.3 Boats and other vessels, private.

(a) The operation of boats, houseboats, cabin cruisers and other vessels on the reservoir for fishing and recreational use is permitted except in prohibited areas designated by the District Engineer in charge of the reservoir area

Wednesday, October 21, 1959

FEDERAL REGISTER

8497

and subject to the regulations contained in this part.

(b) A permit shall be obtained from the District Engineer or his authorized representative for placing and operating a boat or other vessel on the reservoir for any one period longer than three days. No charge will be made for this permit. The permit shall be kept aboard the vessel at all times that the vessel is in operation on the reservoir. The District Engineer in charge of the area or his authorized representative shall have authority to revoke the permit and to require removal of the vessel upon failure of the permittee to comply with the terms and conditions of the permit or with the regulations in this part.

(c) Unsafe boats or other vessels will not be permitted on the reservoir. The District Engineer may require the applicant for a permit to furnish the construction plans and other information pertaining to the construction and equipment of the boat or other vessel prior to issuing a permit for its operation on the reservoir. All boats permitted on the reservoir shall be equipped for safe operation and operated in a safe manner in accordance with instructions issued by the District Engineer. These instructions may provide that the operation of speed boats and water skiing activities shall be confined to areas of water designated by the District Engineer for such activities.

(d) Boathouses, houseboats, cabin cruisers and other vessels may be placed and operated on the reservoirs, except that such facility shall not be utilized for human habitation at a fixed or permanent mooring point and if equipped with toilets and galleys shall not be placed on reservoirs with small permanent pools. Such vessels may be barred from other reservoirs by the District Engineer with the concurrence of the Chief of Engineers in those reservoirs in which the waters thereof are used for domestic water supply when the District Engineer determines that such use is contrary to the public health and safety.

§ 311.4 Mooring, care and sanitation of boats and floating facilities.

(a) All boats or other vessels when not in actual use must be either removed from the reservoir, securely moored at authorized docks or boathouses where supervision by the owner or his representative is provided on a 24-hour-day basis, or placed in the care of a marina concessionaire, State or local managing agency or other party authorized to care for floating equipment on a 24-hour-day basis.

(b) All boats, barges and other vessels or floating facilities will be moored only in locations designated by the District Engineer or his designated representative. All floating or stationary mooring facilities will be constructed in accordance with plans and a permit approved by the District Engineer or his designated representative. He shall have authority to revoke such permit and require removal of the facility for failure of the permittee to comply with the terms and conditions of the permit or with the regulations in this part.

(c) The discharge of sewage, garbage or other pollutant in the waters of the reservoir from any boat, barge or other vessel on the reservoir is prohibited except in accordance with regulations of the State and local health agencies permitting such discharge when underway in deep waters other than embayments. All such pollutants shall be deposited ashore at places designated for such deposit and disposal.

§ 311.5 Swimming and bathing.

Swimming and bathing are permitted except in prohibited areas designated by the District Engineer.

§ 311.6 Hunting and fishing.

(a) Hunting and fishing are permitted in accordance with all applicable Federal, State and local laws for the protection of fish and game except in prohibited areas including the following:

(1) Public access, park and recreation areas in which all hunting is prohibited.

(2) Prohibited areas designated by the District Engineer in which hunting or fishing or both are prohibited.

(3) Prohibited areas designated by Federal or State managing agencies under applicable laws administered by such agencies.

(b) Hunting is restricted to the use of bow and arrow or shotgun loaded with shot in any reservoir area listed in § 311.1 except in managed game areas where the special hunting regulations of the managing agency with the prior approval of the District Engineer will apply, and except for the following reservoir areas on which hunting of deer with rifles is also permitted when not contrary to State or local laws or regulations.

Arkansas

Bull Shoals Reservoir Area, White River.
Table Rock Reservoir Area, White River.

California

Harry L. Englebright Reservoir Area, Yuba River.
North Fork Reservoir Area, North Fork American River.
Pine Flat Reservoir Area, Kings River.

Missouri

Bull Shoals Reservoir Area, White River.
Clearwater Reservoir Area, Black River.
Table Rock Reservoir Area, White River.
Wappapello Reservoir Area, St. Francis River.

Montana

Fort Peck Reservoir Area, Missouri River.

Nebraska

Gavins Point Reservoir Area (Lewis and Clark Lake), Missouri River.

North Dakota

Garrison Reservoir Area, Missouri River.

Pennsylvania

Conemaugh River Reservoir Area, Conemaugh River.
Crooked Creek Reservoir Area, Crooked Creek.
Loyalhanna Reservoir Area, Loyalhanna Creek.
Mahoning Creek Reservoir Area, Mahoning Creek.
Tionesta Reservoir Area, Tionesta Creek.
Youghiogheny River Reservoir Area, Youghiogheny River.

South Dakota

Fort Randall Reservoir Area, Missouri River.
Gavins Point Reservoir Area (Lewis and Clark Lake), Missouri River.

(c) A permit shall be obtained from the District Engineer or his authorized representative to construct a duck blind on the water in any reservoir area listed in § 311.1 except for the Wappapello Reservoir Area, St. Francis River, Missouri, on which duck blinds may be permitted or prohibited in accordance with regulations of the Missouri Conservation Commission relative to duck hunting.

§ 311.7 Camping.

(a) Camping is permitted only at areas designated by the District Engineer in charge of the reservoir area or his authorized representative.

(b) Approval of the District Engineer, or his authorized representative, is required to camp in the reservoir area for any one period of two weeks or longer.

(c) Camping equipment shall not be abandoned or left unattended for 48 hours or more.

(d) The installation of any permanent facility at any public camp ground is permitted only on written authorization of the District Engineer or his authorized representative.

(e) Campers shall keep their camp grounds clean and dispose of combustibles and refuse in accordance with instructions posted by the District Engineer at each camp ground.

(f) Due diligence shall be exercised in building and putting out camp fires to prevent damages to trees and vegetation and to prevent forest and grass fires.

(g) Camps must be completely rased and the sites cleaned before the departure of the campers.

§ 311.8 Picnicking.

(a) Picnicking is permitted, except in prohibited areas designated by the District Engineer or his authorized representative, in any reservoir area listed in § 311.1 except for the following reservoir areas in which picnicking is prohibited in all areas not specifically designated by the District Engineer for picnicking:

(1) Fort Peck Reservoir Area, Missouri River, Montana.

§ 311.9 Access to water areas.

(a) Pedestrian access is permitted along the shores of the reservoir except in areas designated by the District Engineer or his authorized representative.

(b) Automobile access is permitted only over open public and reservoir roads.

(c) Access for the general public to launch boats is permitted only at the public launching sites designated by the District Engineer.

§ 311.10 Destruction of public property.

The destruction, injury, defacement, or removal of public property or of vegetation, rock, or minerals, except as authorized, is prohibited.

§ 311.11 Firearms and explosives.

Loaded rifles, loaded shotguns, loaded pistols and explosives of any kind are prohibited in the area, except when in the possession of a law enforcement of-

RULES AND REGULATIONS

ficer or Government employee on official duty, when shotguns or rifles are being used for hunting during the hunting season as permitted under § 311.6 and when specifically authorized by the District Engineer.

§ 311.12 Gasoline and oil storage.

Gasoline and other inflammable or combustible liquids shall not be stored in, upon, or about the reservoir or shores thereof without the written permission of the District Engineer or his authorized representative.

§ 311.13 Sanitation.

Refuse, garbage, rubbish or waste of any kind shall not be thrown on or along roads, picnicking or camping areas, in the reservoir waters or on any of the lands around the reservoir, but shall be burned or buried, or disposed of at designated points or places designed for the sanitary disposal thereof.

§ 311.14 Advertisements.

Private notices and advertisements shall not be posted, distributed, or displayed in the reservoir area except such as the District Engineer or his authorized representative may deem necessary for the convenience and guidance of the public using the area for recreational purposes.

§ 311.15 Unauthorized solicitations and business activities.

No person, firm, or corporation, or their representatives shall engage in or solicit any business on the reservoir area without permission in writing from the District Engineer or in accordance with terms of a lease, license, or concession contract with the Department of the Army.

§ 311.16 Commercial operations.

All commercial operations or activities on the waters of the reservoir or on the lands under the control of the Department of the Army around the reservoir shall be in accordance with lease, license, or other agreements with the Department of the Army.

§ 311.17 Dogs.

(a) Dogs are not permitted in any of the following reservoir areas unless on a leash, in a pen, or under complete control of the owner or manager.

(1) Fort Peck Reservoir Area, Missouri River, Montana.

§ 311.18 Recreational activity programs.

(a) Special events such as water carnivals, boat regattas, music festivals, dramatic presentations, or other special recreational programs of interest to the general public are permitted in areas designated by the District Engineer or his authorized representative.

(b) A permit shall be obtained from the District Engineer or his authorized representative by the governmental or legally responsible private agency proposing to hold a special recreation program as indicated in this section. No charge will be made for this permit.

(c) The District Engineer in charge of the area shall have authority to revoke any permit granted under this sec-

tion and to require the removal of any equipment upon failure of the permittee to comply with the terms and conditions of the permit or with the regulations in this part.

§ 311.19 Abandonment of personal property.

Abandonment of personal property on the land or waters of the reservoir area is prohibited. Personal property shall not be left unattended upon the lands and waters of the reservoir area except in accordance with the regulations prescribed in this part or under permits issued therefor. The Government assumes no responsibility for personal property and if such property is abandoned or left unattended in other than places designated in a permit issued therefor or under a regulation for a period in excess of 48 hours it will be impounded, and if not reclaimed by the owners thereof within ninety days will be sold, destroyed, converted to Government use, or otherwise disposed of as determined by the District Engineer or his designated representative.

R. V. LEE,
Major General, U.S. Army,
The Adjutant General.

[F.R. Doc. 59-8822, Filed: Oct. 20, 1959;
8:45 a.m.]

Title 43—PUBLIC LANDS: INTERIOR

Chapter I—Bureau of Land Management, Department of the Interior

APPENDIX—PUBLIC LAND ORDERS

[Public Land Order 2009]

[Los Angeles 0154865]

CALIFORNIA

Partly Vacating Reclamation Withdrawals (Imperial Division—All American Canal System)

By virtue of the authority vested in the Secretary of the Interior by sec. 3 of the act of June 17, 1902 (32 Stat. 388; 43 U.S.C. 416), it is ordered as follows:

The departmental orders of January 31, 1903, and April 9, 1909, so far as they reserved the following-described lands for reclamation purposes under the act of June 17, 1902, are hereby revoked:

SAN BERNARDINO MERIDIAN

T. 16 S., R. 16 E.,
Sec. 1, lots 4, 5, and 6.

Containing 74.47 acres.

Beginning at 10:00 a.m. on November 20, 1959, the lands will be subject to application, petition, location, offer or selection under the public land laws, including the mining laws. This revocation is made in furtherance of a proposed exchange under section 8 of the act of June 28, 1934 (48 Stat. 1272; 43 U.S.C. 315g), as amended, in aid of a Federal land program. This opening is not therefore, subject to the provisions of subsection (c) of section 2 of the act of August 27, 1958 (72 Stat. 928; 43 U.S.C. 851-2), affording to certain States a pre-

ferred right of application for selection upon the revocation of an order of withdrawal.

ROGER ERNST,
Assistant Secretary of the Interior.

OCTOBER 15, 1959.

[F.R. Doc. 59-8837, Filed, Oct. 20, 1959;
8:47 a.m.]

[Public Land Order 2010]

[1447566]

[1449402]

ALASKA

Revoking Executive Orders No. 5813 of February 29, 1932, and No. 5815 of March 9, 1932

By virtue of the authority vested in the President by section 1 of the act of June 25, 1910 (36 Stat. 847; 43 U.S.C. 141), and pursuant to Executive Order No. 10355 of May 26, 1952, it is ordered as follows:

1. Executive Orders No. 5813 of February 29, 1932, and No. 5815 of March 9, 1932, which withdrew the following-described lands in Alaska for examination and classification are hereby revoked:

SEWARD MERIDIAN

Executive Order No. 5313:

T. 18 N., R. 2 E.,

Secs. 5 and 6.

T. 19 N., R. 2 E.,

Secs. 31 and 32.

Executive Order No. 5815:

T. 18 N., R. 1 E.,

Secs. 1 and 12.

T. 18 N., R. 2 E.,

Secs. 3, 4, 7, 8, and 9.

T. 19 N., R. 1 E.,

Secs. 25 and 36.

T. 19 N., R. 2 E.,

Secs. 28, 29, 30, and 33.

The areas described aggregate 10,880 acres, of which about 2,640 acres are nonpublic lands.

2. Beginning at 10:00 a.m., on November 20, 1959, the public lands, excepting section 36, shall be open to application, petition, location and selection under applicable nonmineral public land laws, subject to valid existing rights, the requirements of applicable law, the provisions of existing withdrawals, the 91-day preferred right of selection granted to the State of Alaska by section 202(b) of the Act of July 28, 1956 (70 Stat. 709, 711; 48 U.S.C. 46-3(b)), in furtherance of its mental health program, and section 6(g) of the Alaska Statehood Act of July 7, 1958 (Public Law 85-508; 72 Stat. 341).

3. On January 3, 1959, when the State was admitted into the Union, the reservation of the Section 36 for the Territory of Alaska made by section 1 of the act of March 4, 1915 (38 Stat. 1214; 48 U.S.C. 353), was in effect. The reservation was not affected by the withdrawal for classification made by the Executive Order No. 5815 (see Ex parte E. P. Weaver, 52 L.D. 237; George G. Frandsen, 50 L.D. 516). Therefore, in the absence of any valid right to the section existing on January 3, 1959, title thereto vested in the State on that date under the grant made by

SAM AR001106-SAM AR001106

Tuesday, October 30, 1951

FEDERAL REGISTER

10993

Naval Air Station, Jacksonville, Florida, and such agencies as he may designate.

§ 204.222 *Hood Canal and Dabob Bay, Wash.; naval non-explosive torpedo testing areas.* * * *

(b) *The regulations.* (1) The areas will be used intermittently by the Navy for non-explosive torpedo ranging. Launching will be conducted only between 8:00 a. m. and sunset on days other than Saturdays, Sundays, and holidays. At no times will the navigation lanes generally paralleling the shore be closed to navigation.

[Regs. Oct. 8, 1951, 800.2121-ENGWO] (40 Stat. 266, 892; 33 U. S. C. 1, 3)

[SEAL] WM. E. BERGIN,
Major General, U. S. Army,
The Adjutant General.

[F. R. Doc. 51-13002; Filed, Oct. 29, 1951; 8:46 a. m.]

TITLE 36—PARKS, FORESTS, AND MEMORIALS

Chapter I—National Park Service, Department of the Interior

PART 25—NATIONAL MILITARY PARKS; LICENSED GUIDE SERVICE REGULATIONS

LICENSE

1. The last paragraph of the form of license prescribed in paragraph (e) of § 25.2 is amended to read as follows:

Failure to act as a guide for any period exceeding 30 days between June 1 and August 31 automatically suspends this license. Renewal under these conditions will only be made following proper application to and approval by the park superintendent. During other times of heavy visitation, and especially on weekends and holidays, any and all guides are subject to call for duty unless excused by the park superintendent or his representative.

2. Paragraphs 8 and 10 of the form of agreement prescribed in paragraph (f) of § 25.2 are respectively amended to read as follows:

8. (a) Not to operate for hire any passenger vehicle or other vehicle of any kind, while pursuing the vocation of guide or wearing a guide's badge or uniform.

(b) Not to operate a visitor's motor vehicle unless I hold a valid motor vehicle operator's license issued by the State in which the national military park is located.

(c) Not to charge an extra fee for operating a visitor's motor vehicle.

10. To return the license and official badge without delay to the superintendent should my license be revoked or suspended for more than 5 days or upon abandoning the occupation of guide.

(Sec. 3, 39 Stat. 535, as amended; 16 U. S. C. 3. Interpret or apply sec. 1, 47 Stat. 1420; 16 U. S. C. 9a)

Issued this 24th day of October 1951.

OSCAR L. CHAPMAN,
Secretary of the Interior.

[F. R. Doc. 51-13003; Filed, Oct. 29, 1951; 8:46 a. m.]

Chapter III—Corps of Engineers, Department of the Army

PART 311—RULES AND REGULATIONS GOV- ERNING PUBLIC USE OF CERTAIN RESER- VOIR AREAS

MISCELLANEOUS AMENDMENTS

The Secretary of the Army having determined that the use by the general public of the Clark Hill Reservoir Area, Savannah River, South Carolina and Georgia, the prohibition of houseboats on the Dorena Reservoir Area, Row River, Oregon, and the hunting of deer with rifles in the Bull Shoals Reservoir Area, White River, Missouri and Arkansas, will be in the public interest and will not be inconsistent with the operation and maintenance of the reservoir areas for their primary purposes, hereby prescribes the following rules and regulations to govern the public use of the Clark Hill Reservoir Area, South Carolina and Georgia, and prohibits the placement of houseboats on the Dorena Reservoir Area, Oregon, and permits the hunting of deer with rifles in the Bull Shoals Reservoir Area, Missouri and Arkansas, pursuant to the provisions of section 4 of the act of Congress approved December 22, 1944 (58 Stat. 889; 16 U. S. C. 460d), as amended by the Flood Control Act of 1946 (60 Stat. 641).

1. Add new paragraph (jj) to § 311.1, as follows:

§ 311.1 *Areas covered.* * * *

(jj) Clark Hill Reservoir Area, Savannah River, South Carolina and Georgia.

2. Add new subparagraph (15) to paragraph (a) of § 311.4, as follows:

§ 311.4 *Houseboats.* (a) A permit shall be obtained from the District Engineer for placing any houseboats on the water of any reservoir area listed in § 311.1, except for the following reservoir areas on which houseboats are prohibited:

(15) Dorena Reservoir Area, Row River, Oregon.

3. Add new subparagraph (9) to paragraph (b) of § 311.6, as follows:

§ 311.6 *Hunting and fishing.* * * *

(b) Hunting shall be with shotgun only in any reservoir area listed in § 311.1 except for the following reservoir areas on which hunting of deer with rifles is also permitted.

(9) Bull Shoals Reservoir Area, White River, Missouri and Arkansas.

[Regs., Oct. 3, 1951] (58 Stat. 889, as amended; 16 U. S. C. 460d)

[SEAL] WM. E. BERGIN,
Major General, U. S. Army,
The Adjutant General.

[F. R. Doc. 51-13000; Filed, Oct. 29, 1951; 8:45 a. m.]

TITLE 43—PUBLIC LANDS; INTERIOR

Chapter I—Bureau of Land Manage- ment, Department of the Interior

[Circular 1802]

PART 272—CAREY ACT GRANTS

GRANTS TO STATES FOR IRRIGATION UNDER STATE SUPERVISION; EXTENSIONS OF SEGREGATIONS

Section 272.1 exclusive of footnote 2, and § 272.19 are amended to read:

GRANTS TO STATES FOR IRRIGATION UNDER STATE SUPERVISION

§ 272.1 *Statutory authority.* Under the provisions of section 4 of the act of August 18, 1894 (28 Stat. 422; 43 U. S. C. 641), known as the Carey Act, as amended and supplemented, the States are allowed 10 years from the date of the approval by the Director of an application for segregation of the lands in which to irrigate and reclaim the lands. The Director may, however, in his discretion extend the time for a period of 5 years. The Director may, in his discretion, restore to the public domain any lands not irrigated and reclaimed at the end of the 10 year period or any extension thereof. If actual construction of the reclamation works has not been commenced within 3 years after the segregation of the land or within such further period not exceeding 3 years as may be allowed for that purpose by the Director, the Director may, in his discretion restore the lands to the public domain.

(Sec. 4, 28 Stat. 422, as amended; 43 U. S. C. 641)

EXTENSIONS OF SEGREGATIONS

§ 272.19 *Applications for extensions.* All applications for extensions of time to commence construction of the reclamation works, or to irrigate and reclaim the lands, as outlined in § 272.1, must be submitted to the Director, Bureau of Land Management. Such applications will be entertained only upon the showing of the happening of some event preventing compliance by the State with the requirements within the time allowed, which could not have been reasonably anticipated or guarded against, such as the destruction of irrigation works by storms, floods, or other unavoidable casualties, unforeseen structural or physical difficulties encountered in the operations, or errors in surveying and locating needed ditches or canals.

(Sec. 4, 28 Stat. 422, as amended; 43 U. S. C. 641)

OSCAR L. CHAPMAN,
Secretary of the Interior.

OCTOBER 24, 1951.

[F. R. Doc. 51-13005; Filed, Oct. 29, 1951; 8:46 a. m.]

* (No change in footnote 2.)

SAM AR001106

SAM AR001107-SAM AR001143

RESERVOIR MANAGEMENT MANUAL

ALLATOONA RESERVOIR
COOSA RIVER BASIN, GEORGIA

Part 3 of 5 Parts

-821.5 (Allatoona Dam)

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS
OFFICE OF THE DISTRICT ENGINEER
MOBILE DISTRICT
MOBILE, ALABAMA

1 JUNE 1951

SAM AR001107

D-00011305

TABLE OF CONTENTS

I.	Purpose -----	1
II.	Authority for Reservoir Development----	1
III.	General Policies -----	1
IV.	Policies Regarding Public Access -----	2
V.	Policies Regarding Leased or Licensed Areas -----	3
VI.	General Principles of Management -----	4
VII.	Reservoir Management Responsibilities--	5
VIII.	Organization -----	7
IX.	Equipment -----	8
X.	Public Health and Safety -----	8
XI.	Law Enforcement -----	9
XII.	Violations of Rules, Regulations and Terms of Leases -----	9

APPENDICES

- I. Rules and Regulations Governing Public
Use of Allatoona Reservoir Area
- II. Supplemental Regulations
- III. Rules for Boating on Allatoona Reservoir
- IV. Mooring Requirements
- V. Permit Forms

I. PURPOSE

1. This manual is prepared to serve as a guide and source of information for field and office personnel who are charged with the administration and management of the Allatoona Reservoir Area. As representatives of the District Engineer, they are responsible for reservoir development, maintenance, protection and use of all land and water areas allocated for project and public use, as well as for reservoir lands leased by the Government to others for special purposes. This manual is subject to modifications by the District Engineer as changing conditions dictate.

II. AUTHORITY FOR RESERVOIR DEVELOPMENT

2. Authority for the development and utilization of reservoir lands and waters under the control of the Department of the Army is contained in Section 4 of the Flood Control Act approved 22 December 1944 (Public Law 534 - 78th Congress) as amended by Section 4 of the Flood Control Act approved 24 July 1946 (Public Law 526, 79th Congress, 2nd Session). The text of the Act approved 24 July 1946, and general considerations covering reservoir management and public use are contained in Section 24, Part II, Chapter IV, Orders and Regulations, supplemented by letters of the Office, Chief of Engineers, and Division Office memoranda. Under authority of the aforementioned acts, the Secretary of the Army has promulgated certain rules and regulations governing the public use of Allatoona Reservoir. These rules and regulations are shown in Appendix I.

3. The Secretary of the Army is authorized to grant leases, licenses, permits and easements with certain limitations, for property controlled by the Department of the Army, if such action is not contrary to the public interest. Delegation of authority to the Division and District Engineers to execute leases is contained in Chapter V, Orders and Regulations. Processing of applications and issuance of such instruments will be in accordance with the provision of Part II, Chapter V, Orders and Regulations, supplemented by Circular Letters of Office, Chief of Engineers, and Division Office memoranda. The District Engineer is responsible for administration of leases, licenses, permits and easements, including collection of any rentals.

III. GENERAL POLICIES

4. Following are the policies for planning, construction, operation, maintenance and management of the reservoir area:

a. The primary purposes for which the reservoir project was authorized and constructed will be given priority.

b. The reservoir area will be administered and controlled to maintain intrinsic scenic, historical, scientific and recreational values. Private exploitation and despoilment of such values will not be permitted.

c. Access to the reservoir area by the public will be permitted at as many points as is needed for the enjoyment of the recreational resources

of the area, consistent with public safety and preservation of other reservoir resources.

d. Construction of facilities necessary to promote the best public use of the area will be undertaken or permitted. All development will be in accordance with the approved Master Recreation Plan, priority being given those facilities designated as initial development. The Reservoir Manager will observe the use of existing facilities, and ascertain the desires and needs of the public in order that he may make recommendations for progressive modification of the Master Plan, and for future development and administration.

e. The overall program for reservoir land management and utilization involves the administration of lands for agricultural or grazing purposes. After approval of the Master Plan, the Reservoir Manager will supervise the preparation of detail plans for leasing of lands that are suitable for such purposes. In determining land suitability the technical services offered by the U. S. Soil Conservation Service should be utilized to the fullest extent.

f. Federal, State and local agencies in the field of conservation will be encouraged and assisted in protecting and developing the natural resources of the reservoir area. Assistance also will be extended to those agencies seeking to preserve archaeological and historical values.

g. Standards of construction and maintenance of recreational facilities will be kept uniformly high and in conformance with appropriate practices for protecting the health and safety of the public. This will apply to facilities constructed by the Corps of Engineers and to facilities constructed by others under leases, licenses, permits and concession contracts.

h. The operation and maintenance of commercial recreational facilities will be accomplished by private enterprise under lease or license agreements with the United States or with a licensee governmental agency.

i. The development and management of the reservoir area will be continuously identified with the Corps of Engineers by the erection of suitable signs and through effective public relations.

IV. POLICIES REGARDING PUBLIC ACCESS

5. Section 4 of the Flood Control Act of 1946 stipulates in part that "The water areas of all such reservoirs shall be open to public use generally, without charge, for boating, swimming, bathing, fishing and other recreational purposes and ready access to and exit from such water areas along the shores of such reservoirs shall be maintained for public use, when such use is determined by the Secretary of War not to be contrary to the public interest, all under such rules and regulations as the Secretary of War may deem necessary."

6. Policies governing the orderly development and management of recreational areas on reservoirs are predicated on control of, and minimizing the number of, public access points. Vehicular access to the water area will be permitted over open public and reservoir roads. However, there exists

around the perimeter of the reservoir numerous trails and roads, some of which will be used by occasional visitors and adjacent landowners as a means of access to the reservoir as long as they remain in travelable condition. The cost of maintaining a road for such limited use is generally unwarranted, and continued use will be discouraged by means of the placement of a sign at the Government boundary line stating that the road is not being maintained. As soon as practicable such roads will be obliterated and the surface restored to a natural condition. Cooperation of the various counties concerned will be continuously sought in effecting this policy.

7. Pedestrian ingress and egress will be allowed along the entire shore line. This is further defined to mean that people will be allowed to walk along the shore, may emerge from and re-enter a boat at any point along the shore line, except in those restricted areas as designated by the District Engineer.

V. POLICIES REGARDING LEASED OR LICENSED AREAS

8. In accordance with existing regulations certain government-owned lands in the reservoir area will be leased for either private or commercial enterprises, or licensed to public agencies. The reservoir Manager will be furnished copies of all executed leases and licenses of government-owned lands, and will be responsible for obtaining compliance with the terms of such leases or licenses, and will report any non-compliance to the District Engineer.

a. Approval of Plans. - Plans for the construction of buildings or other facilities, or alteration of the leased or licensed premises by the lessee or licensee will be approved by the District Engineer prior to initiation of such construction or alteration. Plans will be reviewed by the Reservoir Manager and forwarded to the District Engineer with his comments and recommendations. Authority for approval or disapproval of minor structures and alterations valued at \$100.00 or less is delegated to the Reservoir Manager.

b. Elevations of Buildings. - All buildings or structures, except floating structures, or others that will be subject to no essential damage by inundation and securely anchored to prevent floating, will be constructed with the lowest floor at or above elevation 863, which is three feet above the flood control pool established for the project.

c. Preservation of Vegetation. - The Reservoir Manager will see that trees and shrubs are not unnecessarily destroyed and that grading operations are performed so as to prevent unsightly shore conditions or start of erosion during the construction of buildings and other structures on leased areas. Earth embankments or drainage ditches resulting from construction will be promptly stabilized with an accepted vegetative cover.

d. Utilities. - Unless otherwise stipulated in leases and licenses, lessees and licensees will provide and maintain their own roads, water supply, sewage disposal and other utilities. Where such utilities require easements over government-owned lands not included in the leased or licensed premises, the Reservoir Manager will receive applications for such

easements and transmit them with his recommendations to the District Engineer.

e. Sanitation. - Inspections necessary to secure compliance with sanitary requirements of leases or licenses will be made by the Reservoir Manager or his assistants and the Reservoir Manager will encourage the local health authorities to carry out their responsibilities, through frequent inspections of water and sanitary facilities and the provisions of food handling.

f. Agricultural and grazing lands. - The Reservoir Manager will periodically inspect all land under agricultural or grazing lease and in cases where the terms of the lease are being violated by the lessee, and where sound soil conservation practices are being abused, especially with respect to overgrazing and cultivation, the Reservoir Manager will promptly call the attention of the lessee to the violation and will also notify the District Engineer.

g. Protection of Private Property. - Although it is not the responsibility of the Corps of Engineers to police private property on leased or licensed premises, as a matter of courtesy, reservoir personnel who have knowledge of molestation of such property will bring the facts to the attention of local police authorities and the owner.

h. Collection of Rental. - The Fiscal Branch of the District Office will be furnished copies of all leases and will be responsible for the collection of all rentals called for under the terms of leases.

VI. GENERAL PRINCIPLES OF MANAGEMENT

9. The preservation of biological and recreational resources within the reservoir area is of paramount importance. In order to assist in such preservation and insure opportunity for all to enjoy these resources, regulations governing the conduct of visitors are required. The need for such control becomes greater as the number of visitors increases. Special privileges can be granted only at the expense of the general public welfare.

10. Regulations shall guide rather than control visitors insofar as is practicable, that is, visitors shall be told what they may do rather than what not to do. It is assumed that such procedure will reduce the occasions for exercise of authority and promote a cooperative attitude on the part of visitors. It is not deemed necessary that any of the management personnel be deputized as law enforcement officers. It is considered important that all personnel who come in contact with the public should be thoroughly informed as to the reasons for the regulations and should take advantage to explain the public benefits of such regulations.

11. Management personnel should assume responsibility for aiding the public by every legitimate means to use and enjoy the reservoir land and water areas. They must assume the responsibility of insuring that benefits are to be enjoyed equally by all users and that none are denied privileges that others enjoy.

12. Major developments according to the Master Plan will be located at strategic points in order to permit the maximum public benefit, facilitate

d. Obtain cooperation and assistance of public health agencies in performing mosquito control surveys; perform corrective operations in accordance with procedures established by the District Office including larviciding, spraying, removal and disposal of drift and flotsam, and com-

(7) Assist and encourage such agencies as Historical Societies, Nature Clubs, Scientific Groups, etc. in preserving and interpreting scenic, scientific, historical, archeological and biological values.

(6) Assist and encourage local organizations in providing adequate life guard and swimming instructor personnel.

(5) Assist state and local agencies in planning and interpreting plans for developments to be undertaken by those agencies.

(4) Assist the U. S. Fish and Wildlife Service and the Georgia State Game and Fish Commission in obtaining information on wildlife and biological conditions and assist these agencies in effecting a sound wildlife management program.

(3) Coordinate forest fire prevention and protection activities with the Georgia Department of Forestry and adjacent land owners. The Reservoir Manager is responsible for fire pre-suppression and suppression on project lands and for establishment of a working cooperative agreement with the State with respect to suppression on lands adjacent to project boundaries.

(2) Assist in a program of collecting and compiling data relative to the harvest of fish to insure the best possible fishery practice for maximum public benefit.

(1) Obtain assistance and cooperation of Soil Conservation Districts in soil erosion activities.

c. To cooperate with all interested Federal and local agencies in programs of conservation and management of natural resources. This will entail such activities as:

b. To supervise all leases, licenses and permits in compliance with the terms thereof.

a. To supervise the use of the land and water areas of the project to assure its preservation in the public interest.

13. The Reservoir Manager and his staff are the representatives of the District Engineer and as such they shall be sufficiently informed as to the construction and operation of the project to adequately inform the public of the basic functions of the project and its rudimentary construction history. Their responsibilities are generally outlined as follows:

VII. RESERVOIR MANAGEMENT RESPONSIBILITIES

supervision and discourage impairment of natural areas.

trol of secondary growth within the pool area, compile field records of such operations, including inspection of established mosquito collection stations, etc. and report results every two weeks and annually to the District Office.

e. Receive applications and issue permits for the operation of non-commercial boats on the reservoir; for placing duckblinds on the reservoir; and for tent and trailer camps.

f. Supervise construction of all structures and facilities authorized to be built with Federal funds and inspect the construction of authorized private structures and facilities for conformance with required standards.

g. Supervise boating activities in accordance with the following procedures:

(1) Permits will be required for boats of any class placed on the waters of the reservoir, except boats placed on the reservoir temporarily for any one period of less than three days. These permits will be issued by the Reservoir Manager. Established rules and regulations and permit forms are included in Appendix V.

(2) Application for permits will be received by mail or in person at the headquarters of the Reservoir Manager. Permits will be issued promptly. Application forms will be placed at strategic points within the vicinity of the reservoir, such as chambers of commerce, sporting goods stores, public buildings and fishing camps. A detachable part of the application form will be retained by the applicant as a temporary permit, until the permit form is issued, in cases where the application is not made in person.

(3) Spot inspections and periodic checks will be made by reservoir rangers, of boats for compliance with established rules and regulations. Boat operators found to be violating safe operating practices will be warned by the rangers and infractions will be reported in writing to the Reservoir Manager. Two such violations will be cause for revocation of a permit.

(4) Permits for private boat docks and mooring buoys, boathouses, access walks, ramps and steps, and grading requested by adjacent land owners, cottage site lessees, and other individuals will be issued by the Reservoir Manager. The permits for such boating facilities will be issued only in such locations that will not conflict with public safety and reservoir development and operation as determined and recommended by the Reservoir Manager and approved by the District Engineer. Community boating facilities will be encouraged rather than scattered private facilities for exclusive use.

(5) Floating duckblind permits will be issued by the Reservoir Manager, provided definite assurance of removal is given by the permittee. Local game enforcement agents will be kept informed of permits issued. Permits will not be issued for locations which are considered unsafe, or in conflict with designated wildlife refuges, or with State and Federal game laws.

(6) Records of permits and violations will be kept for statistical and other purposes.

VIII. ORGANIZATION

14. Reservoir Management Staff. - The approved permanent organization for reservoir management consists of a Reservoir Manager; a Mosquito Control Supervisor; a Chief Ranger; a Ranger; a Maintenance Foreman; a Launchman; and two Laborers. This personnel organization may be altered whenever experience or conditions indicate the need for such alteration.

a. The Reservoir Manager will supervise the activities of employees assigned to reservoir management positions. The responsibilities of the Reservoir Manager will include the following:

- (1) Represent the District Engineer on all matters of management of the entire reservoir area.
- (2) Supervise development and construction of recreational facilities.
- (3) Maintain, protect and operate government properties.
- (4) Control of reservoir land usage.
- (5) Maintain public relations.
- (6) Liaison officer for the District Engineer with agencies, organizations and individuals who use the reservoir lands under lease and license agreements.
- (7) Conduct surveys necessary to secure data on the collateral benefits derived from the project.
- (8) Perform miscellaneous duties assigned by the District Engineer.

b. The Mosquito Control Supervisor will be qualified and responsible for establishing and conducting mosquito control measures and making record reports. He will make entomological inspections of the reservoir area for such periods of time as necessary, including regular entomological inspections every other week during the mosquito breeding season. He will select and establish adult stations within the area to be inundated as well as the one-mile zone surrounding the reservoir. He will continue to search for breeding places of *A. quadrimaculatus* in the entire reservoir area. He will solicit the assistance of the State Health Department and the U. S. Public Health Service in studying the mosquito control problem if and when needed. He will prepare mosquito control programs and supervise mosquito control operations, such as larviciding; spraying; removal and disposal of drift and flotage, and control secondary growth within the pool area.

c. The Rangers' duties will be to patrol and protect the reservoir area and to obtain compliance with all rules and regulations concerning the

use of land and water areas. They will collect data as may be required for research on fish and wildlife management, recreation development and public usage. They will be qualified or trained in public relations to satisfactorily meet all classes of people visiting the reservoir area, and will be tactful in obtaining cooperation to effect orderly conduct and compliance with rules and regulations. They will also be qualified or trained in the principles of recreation, conservation, forest management and protection, and fire prevention and safety.

d. The Launchman's duties will consist of operating gasoline driven motor boat and transporting survey parties, mosquito control work crews and inspecting parties from landings to the work areas and recreational sites along the reservoir shore lines. He will be responsible for the care and maintenance of the launches and when not operating same will perform such duties as making minor repairs to engines, chipping, washing, greasing, painting, etc. When not functioning at primary job he will assist maintenance crew at powerhouse and perform other incidental duties as assigned.

e. Maintenance crew duties will consist of maintenance and repair of Government-owned structures (except the dam and powerhouse), roads and other facilities and installations. They will keep all Government operated public-use grounds free of all litter and debris and in a well groomed condition. They will assist in mosquito control operations; fire suppression, sanitary and janitorial activities, and perform such other duties as directed by the Reservoir Manager.

IX. EQUIPMENT

15. A complete and final list of all equipment that will be required for reservoir management is not attempted here, but the following are considered necessary for the initial phases of the development and maintenance program:

- 1 Medium weight bulldozer or angledozer
- 1 Medium weight power grader or road patrol
- 1 Small tractor with terracing, grading and mowing attachments
- 1 One and one-half ton dump truck
- 1 One ton stake body truck with hoist attachment
- 2 Jeeps
- 1 Patrol boat
- 2 Work boats
- 1 Lot - Spraying and larviciding equipment
- 1 Jeep, equipped with pumps and tank and other accessories for fire suppression
- 1 Lot forest fire fighting tools
- 1 Lot drag hooks, first aid kits and miscellaneous small tools and equipment

X. PUBLIC HEALTH AND SAFETY

16. The health and safety of the visiting public will be safeguarded to the fullest extent practicable. Applicable Federal, State and Local regulations governing sanitation will be complied with on all areas of the reservoir.

Approved first aid materials will be made readily available at strategic stations. All management personnel will be thoroughly trained in the principles of first aid, particularly in the application of artificial respiration.

17. All fatal and critical injuries occurring within the reservoir area along with pertinent facts pertaining thereto will be reported by telegraph, telephone or radio to the District Office. All minor injuries or accidents will be reported to the Reservoir Manager. The records of all injuries or accidents will be filed in the office of the Reservoir Manager.

XI. LAW ENFORCEMENT

18. The Corps of Engineers does not claim jurisdiction over the project lands and water areas with respect to civil and criminal laws and ordinances. Such laws and ordinances will be enforced by appropriate Federal, State and local agencies. Management personnel will call on the local enforcement agencies whenever necessary, and will cooperate with these agencies in all matters pertaining to law enforcement within the reservoir area.

XII. VIOLATIONS OF RULES, REGULATIONS AND TERMS OF LEASES

19. Whenever rules and regulations are violated, the offenders will be courteously informed of their violations and requested to discontinue such actions. The offenders will also be informed of the reason for rules and regulations and that compliance is necessary to protect the rights of all people using the area. In cases of willful negligence or actions endangering the safety and welfare of others local law enforcement officers may be called upon to remove the guilty person or persons from the area. When, in the opinion of the Reservoir Manager, prosecution on the part of enforcement agencies is required, a report will be made to the District Office giving full information as to the nature of the violation, and efforts made for correction.

20. In cases of violation of terms of leases, the Reservoir Manager will promptly warn the lessee orally, and keep a record of the violation, including text of the conversation, names of persons present and date. In the event the violation is continued the District Engineer will be given the details of the case and determine further action to be taken.

APPENDIX I

RULES AND REGULATIONS
GOVERNING PUBLIC USE OF ALLATOONA RESERVOIR AREA

1. The rules and regulations to govern the public use of the Allatoona Reservoir Area were approved by the Secretary of the Army on 2 February 1950, by Amendment to the Rules and Regulations for Public Use of Certain Reservoir Areas, published as Title 36, Chapter III, Part 311 of the Federal Code of Regulations, the contents of which are as follows:

AMENDMENT TO THE RULES AND REGULATIONS
FOR PUBLIC USE OF CERTAIN RESERVOIR AREAS TO INCLUDE THE
ALLATOONA RESERVOIR, ETOWAH RIVER, GEORGIA

"The Secretary of the Army having determined that the use of the Allatoona Reservoir Area, Etowah River, Georgia, by the general public for boating, swimming, bathing, fishing and other recreational purposes will not be contrary to the public interest and will not be inconsistent with the operation and maintenance of the reservoir for its primary purposes, hereby prescribes rules and regulations pursuant to the provisions of Section 4 of the Act of Congress approved December 22, 1944 (58 Stat. 889; 16 U.S.C. 460d) as amended by the Flood Control Act of 1946 (60 Stat. 641), for the public use of the Allatoona Reservoir, Georgia, by adding a new paragraph (bb) to Par. 311.1 as follows:

Par. 311.1 - Areas covered. * * *

(bb) Allatoona Reservoir Area, Etowah River, Georgia."

TITLE 36 - PARKS AND FORESTS

CHAPTER III - CORPS OF ENGINEERS, DEPARTMENT OF THE ARMY

PART 311 - RULES AND REGULATIONS GOVERNING PUBLIC USE OF CERTAIN RESERVOIR AREAS

Sec.

311.0 Determination of the Secretary.

311.1 Areas covered.

311.2 Boats, commercial

311.3 Boats, private

311.4 Houseboats

311.5 Swimming and bathing.

311.6 Hunting and fishing.

311.7 Camping.

311.8 Picnicking.

311.9 Access to water areas.

311.10 Destruction of public property.

311.11 Firearms and explosives.

311.12 Gasoline and oil storage.

311.13 Sanitation.

311.14 Advertisements.

311.15 Unauthorized solicitations and business activities.

311.16 Commercial operations.

311.17 Dogs.

311.18 Recreational Activity Programs.

311.0 - Determination of the Secretary. - The Secretary of War having determined that the use of the Reservoir Areas listed in Par. 311.1 of this part, by the general public for boating, swimming, bathing, fishing, and other recreational purposes will not be contrary to the public interest and will not be inconsistent with the operation and maintenance of the reservoirs for their primary purposes, hereby prescribes the following rules and regulations pursuant to the provisions of Section 4 of an Act of Congress approved December 22, 1944 (58 Stat. 839; 16 U.S.C., Sup 440d) as amended by the Flood Control Act of 1946 (Public Law 526, 79th Congress, 60 Stat. 641) for the public use of the reservoir areas listed in Par. 311.1.

311.1 - Areas covered. - The regulations contained in this part shall be applicable to:

- (a) Fort Supply Reservoir Area, Wolf Creek, Oklahoma
- (b) Norfolk Reservoir Area, North Fork River, Missouri and Arkansas
- (c) Nimrod Reservoir Area, Fourche La Pave River, Arkansas
- (d) Dale Hollow Reservoir Area, Obey River, Kentucky and Tennessee
- (e) Fern Ridge Reservoir Area, Long Tom River, Oregon
- (f) Cottage Grove Reservoir Area, Coast Fork of Willamette River, Oregon

- (g) Wappapello Reservoir Area, St. Francis River, Missouri
- (h) Blue Mountain Reservoir Area, Petit Jean River, Arkansas
- (i) Sardis Reservoir Area, Little Tallahatchie River, Mississippi
- (j) Canton Reservoir Area, North Canadian River, Oklahoma
- (k) Youghiogheny River Reservoir Area, Youghiogheny River, Pennsylvania and Maryland
- (l) Clearwater Reservoir Area, Black River, Missouri
- (m) Bluestone Reservoir Area, New River, West Virginia and Virginia
- (n) Wister Reservoir Area, Poteau River, Oklahoma.
- (o) Dewey Reservoir Area, Johns Creek, Kentucky.
- (p) Kanopolis Reservoir Area, Smoky Hill River, Kansas.
- (q) Center Hill Reservoir Area, Caney Fork River, Tennessee.
- (r) Fort Gibson Reservoir Area, Grand (Neosho) River, Oklahoma.
- (s) Arkabutla Reservoir Area, Coldwater River, Mississippi.
- (t) Fall River Reservoir Area, Fall River, Kansas.
- (u) Crooked Creek Reservoir Area, Crooked Creek, Pennsylvania.
- (v) Fort Peck Reservoir Area, Missouri River, Montana.
- (w) Tionesta Reservoir Area, Tionesta Creek, Penn: 1
- (x) Loyalhanna Reservoir Area, Loyalhanna Creek, Pennsylvania
- (y) Mahoning Creek Reservoir Area, Mahoning Creek, Pennsylvania
- (z) Berlin Reservoir Area, Mahoning River, Ohio
- (aa) Lake Texoma and the Denison Reservoir Area, Red River, Oklahoma and Texas
- (bb) Allatoona Reservoir Area, Etowah River, Georgia.

311.2 Boats, commercial - No boat, barge or other vessel shall be placed upon or operated upon any water of the reservoir for a fee or profit, either as a direct charge to a second party or as an incident to other services provided to the second party, except as specifically authorized by lease, license, or concession contract with the War Department.

311.3 Boats, private. - (a) The operation of boats on the reservoir for fishing and recreational use is permitted, except in prohibited areas designated by the District Engineer in charge of the reservoir area.

(b) A permit shall be obtained from the District Engineer or his authorized representative for placing and operating a boat on the reservoir for any one period longer than three days. No charge will be made for this permit. The permit shall be kept aboard the boat at all times that the boat is in operation on the reservoir.

(c) Unsafe boats will not be permitted on the reservoir, and all boats permitted on the reservoir shall be equipped for safe operation and operated in a safe manner in accordance with instructions issued by the District Engineer.

(d) Boats shall be moored only in areas designated by the District Engineer.

(e) A permit shall be obtained from the District Engineer for any special boat mooring facilities.

(f) The District Engineer in charge of the area shall have authority to revoke the permit for either the boat or mooring facilities and to require their removal upon the failure of the permittee to comply with the terms and conditions of the permit or with the regulations in this part.

311.4 Houseboats. - (a) A permit shall be obtained from the District Engineer for placing any houseboats on the water of any reservoir area listed in Par. 311.1, except for the following reservoir areas on which houseboats are prohibited:

- (1) Fern Ridge Reservoir Area, Long Tan River, Oregon
- (2) Cottage Grove Reservoir Area, Coast Fork of Willamette River, Oregon
- (3) Canton Reservoir, North Canadian River, Oklahoma
- (4) Wister Reservoir Area, Poteau River, Oklahoma
- (5) Kanopolis Reservoir Area, Smoky Hill River, Kansas
- (6) Fall River Reservoir Area, Fall River, Kansas
- (7) Crooked Creek Reservoir Area, Crooked Creek Pennsylvania
- (8) Youghiogheny River Reservoir Area, Youghiogheny River, Pennsylvania
- (9) Tionesta Reservoir Area, Tionesta Creek, Pennsylvania
- (10) Loyahanna Reservoir Area, Loyahanna Creek, Pennsylvania
- (11) Mahoning Creek Reservoir Area, Mahoning Creek, Pennsylvania
- (12) Berlin Reservoir Area, Mahoning River, Ohio

(b) Written approval of the District Engineer shall be obtained of the plans for houseboats and the construction of the houseboats shall conform to the plans as approved by the District Engineer.

(c) Refuse, garbage, rubbish, or waste of any kind shall be disposed of in the manner designated by the District Engineer or his authorized representative.

(d) Houseboats shall be securely moored in the area designated by the District Engineer.

(e) Houseboats shall be maintained in a condition satisfactory to the District Engineer and shall not be abandoned on the reservoir area.

(f) The District Engineer shall have authority to revoke the permit and require the removal of the houseboat upon failure of the permittee to comply with the terms and conditions or with the regulations in this part.

311.5 Swimming and bathing. - Swimming and bathing are permitted except in prohibited areas designated by the District Engineer.

311.6 Hunting and fishing. - (a) Hunting and fishing are permitted in accordance with all applicable Federal, State and local laws for the protection of fish and game, except in prohibited areas designated by the District Engineer.

(b) Hunting shall be with shotgun only in any reservoir area

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311.8 Picnicking. - (a) Picnicking is permitted, except in prohibited areas designated by the District Engineer or his authorized representative, in any reservoir area listed in Par. 311.1 except for the following reservoir areas in which picnicking is prohibited in all areas not specifically designated by the District Engineer for picnicking:

(g) Camps must be completely razed and the sites cleaned before the departure of the campers.

(f) Due diligence shall be exercised in building and putting out camp fires to prevent damages to trees and vegetation and to prevent forest and grass fires.

(e) Campers shall keep their camp grounds clean and dispose of combustibles and refuse in accordance with instructions posted by the District Engineer at each camp ground.

(d) The installation of any permanent facility at any public camp ground is permitted only on written authorization of the District Engineer or his authorized representative.

(c) Camping equipment shall not be abandoned or left unattended for 48 hours or more.

(b) Approval of the District Engineer, or his authorized representative, is required to camp in the reservoir area for any one period of two weeks or longer.

311.7 Camping. - (a) Camping is permitted only at areas designated by the District Engineer in charge of the reservoir area or his authorized representative.

(c) A permit shall be obtained from the District Engineer or his authorized representative to construct a duck blind on the water in any reservoir area listed in Par. 311.1, except for the Wappapello Reservoir Area, St. Francis River, Missouri, on which duck blinds may be permitted or prohibited in accordance with regulations of the Missouri Conservation Commission relative to duck hunting.

- (1) Wappapello Reservoir Area, St. Francis River, Missouri
- (2) Clearwater Reservoir Area, Black River, Missouri
- (3) Fort Peck Reservoir Area, Missouri River, Montana
- (4) Tongue River Reservoir Area, Tongue River, Montana
- (5) Tionesta Reservoir Area, Tionesta Creek, Pennsylvania
- (6) Loyahanna Reservoir Area, Loyahanna Creek, Pennsylvania
- (7) Mahoning Creek Reservoir Area, Mahoning Creek, Pennsylv-
- (8) Crooked Creek Reservoir Area, Crooked Creek, Pennsylvania

listed in Par. 311.1 except for the following reservoir areas on which hunting of deer with rifles is also permitted:

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(1) Fort Peck Reservoir Area, Missouri River, Montana

311.9 Access to water area. = (a) Pedestrian access is permitted along the shores of the reservoir except in areas designated by the District Engineer or his authorized representative,

(b) Automobile access is permitted only over open public and reservoir roads.

(c) Access for the general public to launch boats is permitted only at the public launching sites designated by the District Engineer.

311.10 Destruction of public property. - The destruction, injury, defacement, or removal of public property or of vegetation, rock or minerals, except as authorized, is prohibited.

311.11 Firearms and explosives. - Loaded rifles, loaded shotguns, loaded pistols and explosives of any kind are prohibited in the area, except when in possession of a law enforcement officer or Government employee on official duty, when shotguns or rifles are being used for hunting during the hunting season as permitted under Par. 311.6 and when specifically authorized by the District Engineer (58 Stat. 889, as amended by Sec. 4, Public Law 526, 79th Congress, 60 Stat. 641; 16 U.S.C.460d).

311.12 Gasoline and oil storage. - Gasoline and other inflammable or combustible liquids shall not be stored in, upon or about the reservoir or shores thereof without the written permission of the District Engineer or his authorized representative.

311.13 Sanitation. - Refuse, garbage, rubbish or waste of any kind shall not be thrown on or along roads, picnicking or camping areas, in the reservoir waters or on any of the lands around the reservoir, but shall be burned or buried, or disposed of at designated points or places designed for the sanitary disposal thereof.

311.14 Advertisements. - Private notices and advertisements shall not be posted, distributed, or displayed in the reservoir area, except such as the District Engineer or his authorized representative may deem necessary for the convenience and guidance of the public using the area for recreational purposes.

311.15 Unauthorized solicitations and business activities. - No person, firm or corporation, or their representatives shall engage in or solicit any business on the reservoir area without permission in writing from the District Engineer or in accordance with terms of a lease, license or concession contract with the War Department.

311.16 Commercial operations. - All commercial operations or activities on the waters of the reservoir or on the lands under the control of the War Department around the reservoir shall be in accordance with lease, license, or other agreements with the War Department.

311.17 Dogs. - (a) Dogs are not permitted in any of the following reservoir areas unless on a leash, in a pen, or under complete control of the owner

or manager:

(1) Fort Peck Reservoir Area, Missouri River, Montana

311.18 Recreational activity programs. - (a) Special events such as water carnivals, boat regattas, music festivals, dramatic presentations or other special recreational programs of interest to the general public are permitted in areas designated by the District Engineer or his authorized representative.

(b) A permit shall be obtained from the District Engineer or his authorized representative by the governmental or legally responsible private agency proposing to hold a special recreation program as indicated in this section. No charge will be made for this permit.

(c) The District Engineer in charge of the area shall have authority to revoke any permit granted under this section and to require the removal of any equipment upon failure of the permittee to comply with the terms and conditions of the permit or with the regulations in this part.

In letter to Division Engineer from Office, Chief of Engineers dated 1 July 1949, subject: "Rules and Regulations Governing the Public Use of Certain Reservoir Areas", comments were made on Section 311.18, "Recreational Activity Programs", as follows:

"Section 311.18 authorizes the District Engineer or his authorized representative to issue permits without charge for special events such as water carnivals, boat regattas, music festivals, dramatic presentations or other special recreation programs of interest to the general public in reservoir areas. This authority was obtained in order to facilitate an orderly and uniform method of handling such special events. District Engineers are authorized to issue a recreational activity program permit for special events under the following conditions:

- a. When such special recreational activity programs will contribute to the public use and enjoyment of the reservoir area.
- b. When the special event does not exceed three days duration.
- c. When an agency will accept full responsibility for conducting the event, protecting the health and safety of the participants and spectators and will clean up and restore the site following the event. Preference will be given to governmental park and recreation agencies, but permits may be granted to legally responsible non-profit agencies such as Chambers of Commerce, Sportsmen's Associations, and similar organizations which normally sponsor such special events.

"The permit granted by the District Engineer for each special event should include, among other conditions, the following:

- a. That the United States shall not be responsible for damages to property or injury to persons which may arise or be incident to the exercise of the privileges granted to the permit.

b. That the permittee will be responsible for taking all necessary precautions for the health and safety of the participants and spectators including the carrying of liability insurance when appropriate.

c. That the permittee will clear the grounds, remove equipment and restore the site within a specified time after completion of the event. If desirable, the permittee may be required to post a bond to insure compliance with this condition.

d. The District Engineer may authorize the permittee to make reasonable charges for special services rendered in connection with the special activity and solely for the purpose of defraying expenses of the event in whole or in part. (Such charges might include, but are not limited to, rental of chairs, cushions, sale of programs and photographs of the event.)

e. That the permittee agrees that any income derived from the conduct of the special event in excess of the actual expenses of the program will be used for public recreational or eleemosynary purposes."

APPENDIX II

SUPPLEMENTAL REGULATIONS

1. By authority granted under the Rules and Regulations prescribed by the Secretary of the Army the District Engineer issues necessary supplemental regulations to govern the public use of the reservoir area in the interest of public health, safety and welfare as follows:

a. Restricted areas. -

(1) Boating, fishing, swimming and bathing are not permitted in the reservoir within 300 feet of the dam.

(2) Swimming and bathing are not permitted within 200 feet of the U. S. Highway 41 bridge crossing Allatoona Creek, nor within 100 feet of the N.C.& St.L. Railway Bridge crossing Allatoona Creek, nor within 100 feet of launching ramps or boat dock areas. Swimmers should confine their activities to designated and supervised swimming beach areas or in other relatively safe areas under the supervision of life guards.

(3) Motor-driven boats shall stay clear of marked or buoyed swimming areas.

(4) Hunting will not be permitted in restricted land or water areas which are in vicinity of the dam, within wildlife refuge areas and planned or developed public use and recreational areas.

b. Motorboat speed. - No motor-driven boat shall be operated at a speed greater than 6 miles an hour when in harbor or passing under bridges, or within 100 feet of shore, launching ramp, dock, mooring area, occupied boat or buoyed fishing ground or swimming area.

c. Hunting and fishing. - No special license or permit is required for hunting and fishing in unrestricted areas, except as required by Federal and State Game and Fish authorities.

d. Responsibility. - The use of the Allatoona Reservoir shall be at the risk of the users. The United States will not be liable for damages of any kind resulting from use of the reservoir area for recreational or other purposes, or from the operation of the project.

2. The following regulations are to be published or posted, in whole or in part, in appropriate areas selected by the Reservoir Manager:

a. Private boats. - No person who is under the influence of intoxicating liquors or narcotic drugs shall operate a boat of any kind on the waters of the reservoir.

b. Camping. -

(1) Campers shall keep their camp grounds clean. Combustible rubbish shall be burned in camp fires and all other garbage or refuse shall

be placed in containers where provided, or shall be otherwise disposed of by burning or burying.

(2) Campers may use dead or fallen timber and driftwood for fuel.

(3) The digging and leveling of the ground of any camp site is not permissible without prior permission of the Reservoir Manager.

(4) The regular fireplaces constructed for the convenience of visitors must be used in making campfires. Should camp be made in a locality where no regular campfire space is provided, the dead wood, moss, dry leaves, etc. shall be scraped away to the rock or earth over an area considerably larger than that required for the fire. Fires shall not be kindled near or on the roots of trees nor any place where existing trees and vegetation will be damaged. When the fire is no longer needed it shall be completely extinguished, and all embers and beds smothered with earth or water, so that there remains no possibility of reignition.

c. Livestock. - The running at large, herding, or grazing of livestock of any kind on the Government lands, as well as the driving of livestock, is prohibited, except in those areas which have been leased for grazing purposes.

APPENDIX III

RULES FOR BOATING ON ALLATOONA RESERVOIR

I. AUTHORITY AND SCOPE

1. Under authority contained in the Flood Control Acts of 1944 and 1946, and as a matter of public safety and public necessity, the following rules and regulations for boating on Allatoona Reservoir will be enforced. The use of boats shall conform to all Federal laws and regulations and all laws and regulations of the State of Georgia. Observance of the caution hints at the end of these rules is recommended.

II. PERMITS

2. The operation for recreational purposes of boats of the types specified below is permitted, at the risk of the users and subject to these boating rules. Before operating any boat on the waters of the reservoir, or within the limits of the reservoir area, for any period longer than 3 days, the operator must obtain a permit from the Reservoir Manager. The permit will specify at what point or points on the waters this boat may be launched, docked, or moored. Such permit shall be retained by the permittee, and the serial number on the permit shall be plainly marked in numerals, not less than 3 inches in height and 2 inches in width, near the bow on the port side of the boat.

III. CLASSIFICATION OF BOATS

3. (a) For the purpose of reference in these regulations, boats are divided into two general classifications, as follows:

- (1) Boats operated solely for pleasure purposes.
- (2) Boats operated in commercial service.

(b) All boats in either of the above general classes are further divided into the following classes:

- Class M - Any manually operated boat.
- Class A - Any motorboat or sailboat less than 16 feet in length.
- Class 1 - Any motorboat or sailboat 16 feet in length or over and less than 26 feet in length.
- Class 2 - Any motorboat or sailboat 26 feet or over and less than 40 feet in length.
- Class 3 - Any motorboat or sailboat 40 feet or over and not more than 65 feet in length.

Definition of length: Length measured from end to end over the deck, excluding sheer.

IV. CAPACITY AND EQUIPMENT

4. Carrying Capacity. - The safe carrying capacity of all boats shall not be exceeded. The safe carrying capacity shall be determined by the following rule: Measure the length and breadth outside of the planking or plating and the minimum inside depth. The depth used in calculation shall not in any case exceed 45 percent of the breadth. The product of these three dimensions multiplied by 0.6 shall be deemed the capacity of the boat in cubic feet. To determine the number of persons a boat is to carry, divide the result by 8.

Example: The carrying capacity of a boat 12 feet in length, 4-1/3 feet in breadth, and 1-1/3 feet in depth shall be determined as follows:

$$\frac{12 \times 4\frac{1}{3} \times 1\frac{1}{3} \times 0.6}{8} = \frac{41.6}{8} \text{ or } \frac{42}{8} = 5 \text{ persons}$$

In addition, the number of occupants will be limited by allowing at least 18" of linear seating space to each person.

5. Freeboard. - Every boat shall have sufficient room, freeboard, and stability to carry safely the number of persons allowed by the above rule, together with whatever tackle, equipment, machinery, fuel and supplies that are aboard, which fact shall be determined by actual test in the water. The freeboard shall not be less than the following amounts, which are applicable without correction to boats having a mean sheer equal to three percent of their length:

<u>Depth of Boat</u> <u>Inches</u>	<u>Minimum Freeboard</u> <u>Inches</u>
12	2-3/4
18	3-3/4
20	5-1/3
30	6-1/2

6. Marking Capacity of Commercial Boats. - The number of persons permitted to be carried by all boats used in commercial service shall be determined as shown in paragraphs 4 and 5 above, and shall be plainly marked on each such boat. At no time shall the rated capacity be exceeded. Boats considered in commercial service shall include all boats rented to others, or used for carrying any person or persons, or any goods for a valuable consideration.

7. Requirements for Manually Operated Boats Used Solely for Pleasure. - In addition to the requirements shown in paragraphs 5 and 6 above, the following requirements apply to all manually operated boats used solely for pleasure:

(a) Life Preservers. - One life preserver or ring buoy shall be carried for each person on board.

(b) Oars or paddles. - Each boat shall be equipped with two (2) or more oars or paddles.

(c) Bailing equipment. - Each boat shall be equipped with an efficient water pump or bailing bucket.

(d) Lights. - Each boat when used between sunset and sunrise shall carry a lantern or flashlight capable of showing a white light which shall be exhibited in sufficient time to avert collision.

8. Requirements for motorboats used solely for pleasure. - In addition to the requirements shown in paragraphs 5 and 6 above, all motorboats not in commercial service are subject to the requirements and regulations given in the following table:

REQUIREMENTS FOR MOTORBOATS NOT IN COMMERCIAL SERVICE

	: Class A	: Class 1	: Class 2	: Class 3
	: 0 to 16 feet	: 16 to 26 feet	: 25 to 40 feet	: 40 to 65 feet
Combination Light	: One in fore part of boat showing red to port and green to starboard from right ahead to 2 points abaft the beam. Visible at least 1 mile.	: None	: None	: None
Portside Light	: None	: None	: One on portside, properly screened to show red from right ahead to 2 points abaft the beam, visible at least 1 mile.	
Starboard Side Light	: None	: None	: One on starboard side properly screened to show green from right ahead to 2 points abaft the beam. Visible at least 1 mile.	
Stern Light	: One bright white light aft showing all around the horizon. Visible at least 2 miles.			
Bow light	: None	: None	: One bright white light in fore part of boat showing from right ahead to 2 points abaft the beam on both sides. Visible at least 2 miles.	
Whistle	: None	: One hand, mouth or power operated, audible at least $\frac{1}{2}$ mile.	: One hand or power operated: audible at least 1 mile.	: One power operated: audible at least 1 mile.
Bell	: None	: None	: One which produces, when struck, a clear bell-like tone of full round characteristics.	
Lifesaving devices	: One life preserver or ring buoy for each person on board.			
Flame arresters	: One on each carburetor of all gasoline engines installed, except outboard motors.			
Ventilation	: At least 2 ventilators with cowls or equivalent capable of removing gases from bilges in engine and fuel tank compartments using gasoline or other fuel of a flashpoint less than 110° F.			

REQUIREMENTS FOR MOTORBOATS NOT IN COMMERCIAL SERVICE (Cont'd)

	: Class A	: Class 1	: Class 2	: Class 3
	: 0 to 16 feet	: 16 to 26 feet	: 25 to 40 feet	: 40 to 65 feet
Fire Extinguishers	: One 1-qt. carbon tetrachloride or 1 1/4 gal. foam or 1 4-lb. CO ² extinguisher, None	: Two 1-qt. carbon tetrachloride or 1 1/4 gal. foam or 1 4-lb. CO ² extinguisher, None	: Two 1-qt. carbon tetrachloride or 1 1/4 gal. foam or 1 4-lb. CO ² extinguisher, None	: Three 1-qt. carbon tetrachloride or 1 1/4 gal. foam or 1 4-lb. CO ² extinguisher, None
	: required on outboard motor-boats.	: 1 1/4 gal. foam or 1 4-lb. CO ² extinguishers.	: 1 1/4 gal. foam or 1 4-lb. CO ² extinguishers.	: 1 1/4 gal. foam or 1 4-lb. CO ² extinguishers.
Oars or paddles	: Two	: Two	: Two or more, as needed	: None
Anchor (on board)	: One, of sufficient size, and a rope, chain, or cable of sufficient length and strength to hold the craft in case of emergency.			
Mufflers	: All motor driven craft shall be provided with mufflers and may not be operated without same at any time.			
Bailing Equipment	: Each boat shall be equipped and/or provided with an efficient water pump or bailing bucket.			

NOTE: Coast Guard Motorboat Regulations (sub-section 25.1-4(a) requires that motorboats of classes A and 1 when propelled by sail and machinery or by sail alone shall carry the white light prescribed by subsection 25.1-2(a) but not the combined lantern prescribed by 25.1-2(b).

Motorboats of classes 2 and 3 when propelled by sail and machinery or by sail alone shall carry the colored side lights prescribed by subsection 25.1-3(a) and (b).

9. Pleasure boat permits. - Pleasure boat permits will be granted by the Reservoir Manager only after the boat has been inspected by the Reservoir Manager or his representative to insure that the boat and equipment complies with the above boating rules.

10. The following is a brief digest and supplemental instructions on the requirements for motorboats used solely for pleasure as given in the table in paragraph 8 above:

(a) Lifesaving equipment. - A lifesaving device is required for every person on board. Life preservers or ring buoys are required for motorboats.

(b) Ventilation. - All motorboats that use gasoline or other liquid fuel having a flashpoint of less than 110 degrees Fahrenheit shall be provided with ventilation as follows:

(1) At least two ventilators fitted with cowls or their equivalent for the purpose of properly and efficiently ventilating the bilges of every engine and fuel tank compartment in order to remove any inflammable or explosive gases.

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