

and reexamine each lot of such tobacco in order to discover any nested tobacco. Other commentators recommended imposing monetary or criminal penalties, or both, and denying price support for intentional nesting.

1. *The Problem of Nesting:* Nesting is a term used generally to describe any lot of tobacco offered for official inspection at an auction warehouse which has been loaded, packed, or arranged to conceal foreign material or tobacco of inferior grade, quality or condition. Nesting is more precisely defined in 7 CFR Part 29.

Reports from the industry indicate a significant increase in "nesting" in recent years. Flue-Cured Tobacco Cooperative Stabilization Corporation, the producer association through which CCC makes price support available to producers of flue-cured tobacco, reports that for the 1981 crop of tobacco (of which 22 percent less was placed under price support loan than the previous year), the volume of nested tobacco received by the association tripled. The association notified 668 growers of "nests" as compared with 212 the previous year. Also, a substantial increase in nested tobacco was discovered on warehouse floors. Burley buying companies have expressed concern about the increase in nesting that has occurred in the burley area. Handling nested tobacco is costly for buyers and seriously affects the reputation of U.S. tobacco.

While auction warehouse contracts have provisions prohibiting the warehouse from delivering nested tobacco to an association for price support, nesting is difficult to detect. Moreover, it is believed that the growing incidence of "nesting" and the expectation that more tobacco will come under loan will result in more undetected "nests" being placed in tobacco that comes under loan thereby decreasing the quality of CCC loan collateral tobacco.

With respect to the responses received concerning "nesting", the Burley Marketing Committee and the Council for Burley Tobacco, along with the concurrence of several buying companies, proposed that CCC implement a program whereby producers would have to certify that their tobacco was not nested.

On the basis of these suggestions, the regulations are being revised to provide that the producer, in order to be eligible for price support, must certify that none of the producer's tobacco which is delivered for price support will have been "nested".

This proposed amendment to the regulations excludes producers of the 1982 crop of flue-cured tobacco from the

certification since the 1982 crop of flue-cured tobacco is already being delivered for price support.

2. *Baled Burley Identification Tag:* Current regulations require that the baled burley identification tag for each bale in a lot must be secured by wire. Other means of fastening have been found which are satisfactory. Therefore, the requirement for a specific means of fastening is deleted.

List of Subjects in 7 CFR Part 1464

Price support programs, Tobacco.

PART 1464 [AMENDED]

Accordingly, the regulations at 7 CFR Part 1464 are amended to read as follows:

1. In § 1464.2, paragraph (b)(5)(iv)(C) is revised to read as follows:

§ 1464.2 Availability of price support.

* * * * *

(5) * * *

(iv) * * *

(C) The basket ticket shall show the number of bales in the lot. Each bale in the lot shall be identified by a uniform identification tag 1½ inches wide by 3¼ inches long which shall be attached securely to the bale and shall show at least the following information: (1) Warehouse registration number, (2) basket ticket identification number, and (3) bale number.

2. In § 1464.7 a new paragraph (e) is added to read as follows:

§ 1464.7 Eligible producers.

* * * * *

(e)(1) Except with respect to the 1982 crop of flue-cured tobacco, the producer has certified in writing that any tobacco which the producer delivers for price support will not have been "nested" as defined in 7 CFR Part 29. If, after notice and opportunity for an administrative hearing in accordance with 7 CFR Part 780, CCC determines that a producer knowingly delivered nested tobacco for the purpose of receiving price support, such producer shall be ineligible to receive price support with respect to any tobacco during the marketing year in which the false certification occurred.

(Secs. 4, 5, 62 Stat. 1020, as amended, (15 U.S.C. 714b, 714c), secs. 101, 106, 401, 403, 63 Stat. 1051, as amended, (7 U.S.C. 1441, 1425, 1421, 1423))

Signed at Washington, D.C. on October 5, 1982.

C. Hoke Leggett,

Acting Executive Vice President, Commodity Credit Corporation.

[FR Doc. 82-27832 Filed 10-7-82; 8:45 am]

BILLING CODE 3410-05-M

DEPARTMENT OF COMMERCE

National Oceanic and Atmospheric Administration

15 CFR Part 929

Key Largo National Marine Sanctuary; Withdrawal of Final Rule

AGENCY: National Oceanic and Atmospheric Administration (NOAA), Commerce.

ACTION: Withdrawal of final rule.

SUMMARY: On September 8, 1982, NOAA published final rules in the *Federal Register* concerning the management of the Key Largo National Marine Sanctuary. These rules were scheduled to become effective October 8, 1982, but for the reasons explained below, NOAA hereby withdraws the Key Largo National Marine Sanctuary final rules, effective upon publication of this document.

The final rules withdrawn by this document were intended to make minor revisions to the present interim-final regulations governing the management of the Key Largo National Marine Sanctuary. However, because the interim-final regulations were published more than six years earlier (41 CFR Part 2379) and never subsequently issued as final rules, OMB determined that the revisions to these regulations should be published as proposed rather than final rules, allowing interested parties the opportunity to comment on the proposed rules. Through administrative inadvertence, the proposed rules were sent to the *Federal Register* as final rules and published in that form, as indicated above. By withdrawing the final rules NOAA corrects this error. NOAA intends to publish in the near future proposed rules for the Key Largo National Marine Sanctuary.

EFFECTIVE DATE: The withdrawal of the final rules published September 8, 1982, concerning the Key Largo National Marine Sanctuary is effective as of October 8, 1982.

FOR FURTHER INFORMATION CONTACT: Dr. Nancy Foster, Deputy Director, Sanctuary Programs Office, 3300 Whitehaven Street, NW., Washington, D.C. (202) 634-4236.

SUPPLEMENTARY INFORMATION: As was the case with the final rules (47 FR 39475), withdrawal of the final rules has been determined: (1) Not to be a "major rule" under Executive Order 12291; (2) not to have a significant economic impact on small entities under the Regulatory Flexibility Act; (3) not to impose any information collection

requirements covered by the Paperwork Reduction Act on small governments; and (4) not to constitute a major Federal action requiring the preparation of NEPA documents.

Dated: October 4, 1982.

(Federal Domestic Assistance Catalog No. 11.419 Coastal Zone Management Program Administration)

Peter Tweedt,

Acting Assistant Administrator, Coastal Zone Management, National Oceanic and Atmospheric Administration.

Accordingly, the revision of 15 CFR Part 929 published on September 8, 1982, at 47 FR 39475, is withdrawn. The interim-final regulations originally published January 16, 1976 at 41 FR 2379 remain in effect.

[FR Doc. 82-27776 Filed 10-7-82; 8:45 am]

BILLING CODE 3510-08-M

DEPARTMENT OF THE TREASURY

Customs Service

19 CFR Part 111

[T.D. 82-181]

Customhouse Broker Licenses: Correction

AGENCY: U.S. Customs Service, Treasury.

ACTION: Final rule; correction.

SUMMARY: This document corrects an erroneous reference to a section of the Customs Regulations in a final rule relating to customhouse broker licenses which appeared at page 42727 in the Federal Register of Wednesday, September 29, 1982 (47 FR 42726).

FOR FURTHER INFORMATION CONTACT: James F. Bartley, Entry, Licensing and Restricted Merchandise Branch, U.S. Customs Service (202-566-5765).

The following correction is made to the document: On page 42727, right-hand column, the last sentence of revised § 111.19(a), Customs Regulations, is corrected to read " * * * Upon receipt of the application, the district director of the district for which a license is desired shall follow the procedure set forth in section 111.12(b);".

* * *

Dated: October 1, 1982.

Marvin M. Amernick,

Acting Director, Regulations Control and Disclosure Law Division.

[FR Doc. 82-27576 Filed 10-7-82; 8:45 am]

BILLING CODE 4820-02-M

DEPARTMENT OF HEALTH AND HUMAN SERVICES

Food and Drug Administration

21 CFR Part 178

[Docket No. 82F-0027]

Indirect Food Additives: Adjuvants, Production Aids, and Sanitizers; Antioxidants and/or Stabilizers for Polymers

Correction

In FR Doc. 82-23708, beginning on page 38274, in the issue of Tuesday, August 31, 1982, on page 38275, in the second column in § 178.2010(b), in the table under the "Limitations" column, the last line of paragraph 7. should read "(0.004 inch)."

BILLING CODE 1505-01-M

21 CFR Part 520

Oral Dosage Form New Animal Drugs Not Subject To Certification; Oxibendazole Suspension

Correction

In FR Doc. 82-24537, appearing on page 39811, on Friday, September 10, 1982, in the third column, in the fifth line from the bottom, "general" should be corrected to read "genera".

BILLING CODE 1505-01-M

21 CFR Part 540

Penicillin Antibiotic Drugs for Animal Use; Sterile Amoxicillin Trihydrate for Suspension

Correction

In FR Doc. 82-24535, appearing on page 39813, on Friday, September 10, 1982, in § 540.203(c)(2)(iv)(c), in the third column, in the first line, "As with the" should be corrected to read "As with all".

BILLING CODE 1505-01-M

DEPARTMENT OF DEFENSE

Corps of Engineers, Department of the Army

33 CFR Part 222

[ER 1110-2-240]

Engineering and Design; Water Control Management

AGENCY: U.S. Army Corps of Engineers, DOD.

ACTION: Final rule.

SUMMARY: This regulation describes policy, procedures and provides guidance for the Corps of Engineers to follow in performing water control management activities for the regulation of Corps and non-Corps projects as required by Federal laws, authorizing documents and directives. Recent Federal Statutes relating to fish and wildlife coordination, water project recreation, environmental protection and water pollution control have created a need for updated guidance provided by this regulation. This program will provide better water control plans and produce beneficial water savings and improvements in the availability of water.

EFFECTIVE DATE: October 8, 1982.

FOR FURTHER INFORMATION CONTACT: Mr. Earl Eiker, Chief Water Control/Quality Section, USACE (DAEN-CWE-HW), Washington, DC 20314. (202) 272-0224.

SUPPLEMENTARY INFORMATION: This final rule has been expanded with the addition of Appendix E which lists pertinent data for all U.S. Army Corps of Engineers projects subject to this regulation. Only minor comments on the proposed rule were received from three public agencies. Two comments pertained to coordination with local interests which is addressed in § 222.7 (f) and (g). One comment related to requirements for public information dissemination which is addressed in § 222.7(g)(2). The remainder of the comments received from the three respondents were questions of interpretation of various sections of the regulation.

Note.—The Assistant Secretary of Army, CW, has determined that this rule is not a "major rule" proposal requiring preparation of a regulatory impact analysis under Executive Order 12291. The Department of the Army has also determined as required by the Regulatory Flexibility Act (Pub. L. 96-354) that this rule poses no burden upon small entities.

List of Subjects in 33 CFR Part 222

Bridges, Dams, Water resources, Reservoir, Transportation, Rivers, Fish, Wildlife, and Records.

John O. Roach II,

Department of Army Liaison, Officer With the Federal Register.

Accordingly 33 CFR Part 222 is amended by adding a new § 222.7 with Appendixes A through E to read as set forth below.

(Sec. 7, Pub. L. 78-534, 58 Stat. 890 (33 U.S.C. 709); the Federal Power Act, 41 Stat. 1063 (16 U.S.C. 791(A)); and Sec. 9, Pub. L. 83-436, 68 Stat. 303, specific legislative authorization

Acts and Public Laws listed in Appendix E of this regulation)

PART 222—ENGINEERING AND DESIGN

§ 222.7 Water control management (ER 1110-2-240).

(a) *Purpose.* This regulation prescribes policies and procedures to be followed by the U.S. Army Corps of Engineers in carrying out water control management activities, including establishment of water control plans for Corps and non-Corps projects, as required by Federal laws and directives.

(b) *Applicability.* This regulation is applicable to all field operating activities having civil works responsibilities.

(c) *References.* Appendix A lists U.S. Army Corps of Engineers publications and sections of Federal statutes and regulations that are referenced herein.

(d) *Authorities.*—(1) *U.S. Army Corps of Engineers Projects.* Authorities for allocation of storage and regulation of projects owned and operated by the Corps of Engineers are contained in legislative authorization acts and referenced project documents. These public laws and project documents usually contain provisions for development of water control plans, and appropriate revisions thereto, under the discretionary authority of the Chief of Engineers. Some modifications in project operation are permitted under congressional enactments subsequent to original project authorization. Questions that require interpretations of authorizations affecting regulation of specific reservoirs will be referred to CDR USACE (DAEN-CWE-HW), WASH DC 20314, with appropriate background information and analysis, for resolution.

(2) *Non-Corps Projects.* The Corps of Engineers is responsible for prescribing flood control and navigation regulations for certain reservoir projects constructed or operated by other Federal, non-Federal or private agencies. There are several classes of such projects: Those authorized by special acts of Congress; those for which licenses issued by the Federal Energy Regulatory Commission (formerly Federal Power Commission) provide that operation shall be in accordance with instructions of the Secretary of the Army; those covered by agreements between the operating agency and the Corps of Engineers; and those that fall under the terms of general legislative and administrative provisions. These authorities, of illustrative examples, are described briefly in Appendix B.

(e) *Terminology: Water Control Plans and Reservoir Regulation Schedules.* (1) Water control plans include coordinated regulation schedules for project/system regulation and such additional provisions as may be required to collect, analyze and disseminate basic data, prepare detailed operating instructions, assure project safety and carry out regulation of projects in an appropriate manner.

(2) The term "reservoir regulation schedule" refers to a compilation of operating criteria, guidelines, rule curves and specifications that govern basically the storage and release functions of a reservoir. In general, schedules indicate limiting rates of reservoir releases required during various seasons of the year to meet all functional objectives of the particular project, acting separately or in combination with other projects in a system. Schedules are usually expressed in the form of graphs and tabulations, supplemented by concise specifications.

(f) *General policies.* (1) Water control plans will be developed for reservoirs, locks and dams, reregulation and major control structures and interrelated systems to conform with objectives and specific provisions of authorizing legislation and applicable Corps of Engineers reports. They will include any applicable authorities established after project construction. The water control plans will be prepared giving appropriate consideration to all applicable Congressional Acts relating to operation of Federal facilities, i.e., Fish and Wildlife Coordination Act (Pub. L. 85-624), Federal Water Project Recreation Act-Uniform Policies (Pub. L. 89-72), National Environmental Policy Act of 1969 (Pub. L. 91-190), and Clean Water Act of 1977 (Pub. L. 95-217). Thorough analysis and testing studies will be made as necessary to establish the optimum water control plans possible within prevailing constraints.

(2) Necessary actions will be taken to keep approved water control plans up-to-date. For this purpose, plans will be subject to continuing and progressive study by personnel in field offices of the Corps of Engineers. These personnel will be professionally qualified in technical areas involved and familiar with comprehensive project objectives and other factors affecting water control. Organizational requirements for water control management are further discussed in ER 1110-2-1400.

(3) Water control plans developed for specific projects and reservoir systems will be clearly documented in appropriate water control manuals. These manuals will be prepared to meet initial requirements when storage in the

reservoir begins. They will be revised as necessary to conform with changing requirements resulting from developments in the project area and downstream, improvements in technology, new legislation and other relevant factors, provided such revisions comply with existing Federal regulations and established Corps of Engineers policy.

(4) Development and execution of water control plans will include appropriate consideration for efficient water management in conformance with the emphasis on water conservation as a national priority. The objectives of efficient water control management are to produce beneficial water savings and improvements in the availability and quality of water resulting from project regulation/operation. Balanced resource use through improved regulation should be developed to conserve as much water as possible and maximize all project functions consistent with project/system management. Continuous examination should be made of regulation schedules, possible need for storage reallocation (within existing authority and constraints) and to identify needed changes in normal regulation. Emphasis should be placed on evaluating conditions that could require deviation from normal release schedules as part of drought contingency plans (ER 1110-2-1941).

(5) Adequate provisions for collection, analysis and dissemination of basic data, the formulation of specific project regulation directives, and the performance of project regulation will be established at field level.

(6) Appropriate provisions will be made for monitoring project operations, formulating advisories to higher authorities, and disseminating information to others concerned. These actions are required to facilitate proper regulation of systems and to keep the public fully informed regarding all pertinent water control matters.

(7) In development and execution of water control plans, appropriate attention will be given to project safety in accordance with ER 1130-2-417 and ER 1130-2-419 so as to insure that all water impounding structures are operated for the safety of users of the facilities and the general public. Care will be exercised in the development of reservoir regulation schedules to assure that controlled releases minimize project impacts and do not jeopardize the safety of persons engaged in activities downstream of the facility. Water control plans will include provisions for issuing adequate warnings or otherwise alerting all affected interests to possible

hazards from project regulation activities.

(8) In carrying out water control activities, Corps of Engineers personnel must recognize and observe the legal responsibility of the National Weather Service (NWS), National Oceanic and Atmospheric Administration (NOAA), for issuing weather forecasts and flood warnings, including river discharges and stages. River forecasts prepared by the Corps of Engineers in the execution of its responsibilities should not be released to the general public, unless the NWS is willing to make the release or agrees to such dissemination. However, release to interested parties of factual information on current storms or river conditions and properly quoted NWS forecasts is permissible. District offices are encouraged to provide assistance to communities and individuals regarding the impact of forecasted floods. Typical advice would be to provide approximate water surface elevations at locations upstream and downstream of the NWS forecasting stream gages.

Announcement of anticipated changes in reservoir release rates as far in advance as possible to the general public is the responsibility of Corps of Engineers water control managers for projects under their jurisdiction.

(9) Water control plans will be developed in concert with all basin interests which are or could be impacted by or have an influence on project regulation. Close coordination will be maintained with all appropriate international, Federal, State, regional and local agencies in the development and execution of water control plans. Effective public information programs will be developed and maintained so as to inform and educate the public regarding Corps of Engineers water control management activities.

(10) Fiscal year budget requests for water control management activities will be prepared and submitted to the Office of the Chief of Engineers in accordance with requirements established in Engineer Circular on Annual Budget Requests for Civil Works Activities. The total annual costs of all activities and facilities that support the water control functions, (excluding physical operation of projects, but including flood control and navigation regulation of projects subject to 33 CFR 208.11) are to be reported. Information on the Water Control Data Systems and associated Communications Category of the Plant Replacement and Improvement Program will be submitted with the annual budget. Reporting will be in accordance with the annual Engineer

Circular on Civil Works Operations and Maintenance, General Program.

(g) *Responsibilities: US Army Corps of Engineers Projects.*—(1) *Preparation of Water Control Plans and Manuals.* Normally, district commanders are primarily responsible for background studies and for developing plans and manuals required for reservoirs, locks and dams, reregulation and major control structures and interrelated systems in their respective district areas. Policies and general guidelines are prescribed by OCE engineer regulations while specific requirements to implement OCE guidance are established by the division commanders concerned. Master Water Control Manuals for river basins that include more than one district are usually prepared by or under direct supervision of division representatives. Division commanders are responsible for providing such management and technical assistance as may be required to assure that plans and manuals are prepared on a timely and adequate basis to meet water control requirements in the division area, and for pertinent coordination among districts, divisions, and other appropriate entities.

(2) *Notification of the General Public.* The Corps of Engineers will sponsor public involvement activities, as appropriate, to apprise the general public of the water control plan. The water control manual will be made available for examination by the general public upon request at the appropriate office of the Corps of Engineers. Notice shall be given in the event significant problems are anticipated or experienced that will prevent carrying out the approved water control plan or in the event that an extreme water condition is expected that could produce severe damage to property or loss of life. The means for conveying this information shall be commensurate with the urgency of the situation.

(3) *Authority for Approval of Plans and Manuals.* Division commanders are delegated authority for approval of water control plans and manuals, and associated activities.

(4) *OCE Role in Water Control Activities.* OCE will establish policies and guidelines applicable to all field offices and for such actions as are necessary to assure a reasonable degree of consistency in basic policies and practices in all Division areas. Assistance will be provided to field offices during emergencies and upon special request.

(5) *Methods Improvement and Staff Training.* Division and district commanders are responsible for

conducting appropriate programs for improving technical methods applicable to water control activities in their respective areas. Suitable training programs should be maintained to assure a satisfactory performance capability in water control activities. Appropriate coordination of such programs with similar activities in other areas will be accomplished to avoid duplication of effort, and to foster desirable exchange of ideas and developments. Initiative in re-evaluating methods and guidelines previously established in official documents referred to in paragraph (e) of this section is encouraged where needs are evident. However, proposals for major deviations from basic concepts, policies and general practices reflected in official publications will be submitted to CDR USACE (DAEN-CWE) WASH DC 20314 for concurrence or comment before being adopted for substantial application in actual project regulation at field level.

(h) *Directives and Technical Instruction Manuals.* (1) Directives issued through OCE Engineer Regulations will be used to foster consistency in policies and basic practices. They will be supplemented as needed by other forms of communication.

(2) Engineering Manuals (EM) and Engineer Technical Letters (ETL) are issued by OCE to serve as general guidelines and technical aids in developing water control plans and manuals for individual projects or systems.

(3) EM 1110-2-3600 discusses principles and concepts involved in developing water control plans. Instructions relating to preparation of "Water Control Manuals for specific projects" are included. EM 1110-2-3600 should be used as a general guide to water control activities. The instructions are sufficiently flexible to permit adaptation to specific regions. Supplemental information regarding technical methods is provided in numerous documents distributed to field offices as "hydrologic references."

(4) Special assistance in technical studies is available from the Hydrologic Engineering Center, Corps of Engineers, 609 Second Street, Davis, California 95616 and DAEN-CWE-HW.

(i) *Water Control Manuals for US Army Corps of Engineers Projects.* (1) As used herein, the term "Water Control Manual" refers to manuals that relate primarily to the functional regulation of an individual project or system of projects. Although such manuals normally include background

information concerning physical features of projects, they do not prescribe rules or methods for physical maintenance or care of facilities, which are covered in other documents. (References 15 and 23, Appendix A.)

(2) Water control manuals prepared in substantially the detail and format specified in instructions referred to in paragraph 8 are required for all reservoirs under the supervision of the Corps of Engineers, regardless of the purpose or size of the project. Water Control manuals are also required for lock and dam, reregulation and major control structure projects that are physically regulated by the Corps of Engineers. Where there are several projects in a drainage basin with interrelated purposes, a "Master Manual" shall be prepared. The effects of non-Corps projects will be considered in appropriate detail, including an indication of provisions for interagency coordination.

(3) "Preliminary Water Control Manuals," for projects regulated by the Corps of Engineers should contain regulation schedules in sufficient detail to establish the basic plan of initial project regulation.

(4) As a general rule, preliminary manuals should be superseded by more detailed interim or "final" manuals within approximately one year after the project is placed in operation.

(5) Each water control manual will contain a section on special regulations to be conducted during emergency situations, including droughts. Preplanned operations and coordination are essential to effective relief or assistance.

(6) One copy of all water control manuals and subsequent revisions shall be forwarded to DAEN-CWE-HW for file purposes as soon as practicable after completion, preferably within 30 days from date of approval at the division level.

(j) *Policies and Requirements for Preparing Regulations for Non-Corps Projects.* (1) Division and district commanders will develop water control plans as required by Section 7 of the 1944 Flood Control Act, the Federal Power Act and Section 9 of Pub. L. 436-83 for all projects located within their areas, in conformance with ER 1110-2-241, 33 CFR Part 208. That regulation prescribes the policy and general procedures for regulating reservoir projects capable of regulation for flood control or navigation, except projects owned and operated by the Corps of Engineers; the International Boundary and Water Commission, United States and Mexico; those under the jurisdiction of the International Joint Commission,

United States and Canada, and the Columbia River Treaty. ER 1110-2-241, 33 CFR Part 208 permits the promulgation of specific regulations for a project in compliance with the authorizing acts, when agreement on acceptable regulations cannot be reached between the Corps Engineers and the owners. Appendix B provides a summary of the Corps of Engineers responsibilities for prescribing regulations for non-Corps reservoir projects.

(2) Water control plans will be developed and processed as soon as possible for applicable projects already completed and being operated by other entities, including projects built by the Corps of Engineers and turned over to others for operation.

(3) In so far as practicable, water control plans for non-Corps projects should be developed in cooperation with owning/operating agencies involved during project planning stages. Thus, tentative agreements on contents, including pertinent regulation schedules and diagrams, can be accomplished prior to completion of the project.

(4) The magnitude and nature of storage allocations for flood control or navigation purposes in non-Corps projects are governed basically by conditions of project authorizations or other legislative provisions and may include any or all of the following types of storage assignments:

(i) Year-round allocations: Storage remains the same all year.

(ii) Seasonal allocations: Storage varies on a fixed seasonal basis.

(iii) Variable allocations of flood control from year to year, depending on hydrologic parameters, such as snow cover.

(5) Water control plans should be developed to attain maximum flood control or navigation benefits, consistent with other project requirements, from the storage space provided for these purposes. When reservoir storage capacity of the category referred to in paragraph (j)(4)(iii) is utilized for flood control or navigation, jointly with other objectives, the hydrologic parameters and related rules developed under provisions of ER 1110-2-241, 33 CFR Part 208 should conform as equitably as possible with the multiple-purpose objectives established in project authorizations and other pertinent legislation.

(6) Storage allocations made for flood control or navigation purposes in non-Corps projects are not subject to modifications by the Corps of Engineers as a prerequisite for prescribing 33 CFR 208.11 regulations. However, regulations developed for use of such storage should

be predicated on a mutual understanding between representatives of the Corps and the operating agency concerning the conditions of the allocations in order to assure reasonable achievement of basic objectives intended. In the event field representatives of the Corps of Engineers, and the operating agency are unable to reach necessary agreements after all reasonable possibilities have been explored, appropriate background explanations and recommendations should be submitted to DAEN-CWE-HW for consideration.

(7) The Chief of Engineers is responsible for prescribing regulations for use of flood control or navigation storage and/or project operation under the provisions of the referenced legislative acts. Accordingly, any regulations established should designate the division/district commander who is responsible to the Chief of Engineers as the representative to issue any special instructions required under the regulation. However, to the extent practicable, project regulations should be written to permit operation of the project by the owner without interpretations of the regulations by the designated representative of the Commander during operating periods.

(8) Responsibility for compliance with 33 CFR 208.11 regulations rests with the operating agency. The division or district commander of the area in which the project is located will be kept informed regarding project operations to verify reasonable conformance with the regulations. The Chief of Engineers or his designated representative may authorize or direct deviation from the established water control plan when conditions warrant such deviation. In the event unapproved deviations from the prescribed regulations seem evident, the division or district commander concerned will bring the matter to the attention of the operating agency by appropriate means.

If corrective actions are not taken promptly, the operating agency should be notified of the apparent deviation in writing as a matter of record. Should an impasse arise, in that the project owner or the designated operating entity persists in noncompliance with regulations prescribed by the Corps of Engineers, the Office of Chief Counsel should be advised through normal channels and requested to take necessary measures to assure compliance.

(9) Regulations should contain information regarding the required exchange of basic data between the representative of the operating agency

and the U.S. Army Corps of Engineers, that are pertinent to regulation and coordination of interrelated projects in the region.

(10) All 33 CFR 208.11 regulations shall contain provisions authorizing the operating agency to temporarily deviate from the regulations in the event that it is necessary for emergency reasons to protect the safety of the dam, to avoid health hazards, and to alleviate other critical situations.

(k) *Developing and Processing Regulations for Non-Corps Projects.* Guidelines concerning technical studies and development of regulations are contained in ER 1110-2-241, 33 CFR Part 208 and EM 1110-2-3600. Appendix C of this regulation summarizes steps normally followed in developing and processing regulations for non-Corps projects.

(l) *Water Control During Project Construction Stage.* Water control plans discussed in preceding paragraphs are intended primarily for application after the dam, spillway and outlet structures; major relocations; land acquisitions, administrative arrangements and other project requirements have reached stages that permit relatively normal project regulation. With respect to non-Corps projects, regulations normally become applicable when water control agreements have been signed by the designated signatories, subject to special provisions in specific cases. In some instances, implementation of regulations has been delayed by legal provisions, contract limitations, or other considerations. These delays can result in loss of potential project benefits and possible hazards. Accordingly, it is essential that appropriate water control and contingency plans be established for use from the date any storage may accumulate behind a partially completed dam until the project is formally accepted for normal operations. Division commanders shall make certain that construction-stage regulation plans are established and maintained in a timely and adequate manner for projects under the supervision of the Corps of Engineers. In addition, the problems referred to should be discussed with authorities who are responsible for non-Corps projects, with the objective of assuring that such projects operate as safely and effectively as possible during the critical construction stage and any period that may elapse before regular operating arrangements have been established. These special regulation plans should include consideration for protection of construction operations; safety of downstream interests that might be jeopardized by failure of

partially completed embankments; requirements for minimizing adverse effects on partially completed relocations or incomplete land acquisition; and the need for obtaining benefits from project storage that can be safely achieved during the construction and early operation period.

(m) *Advisories to OCE Regarding Water Control Activities.*—(1) *General.* Division commanders will keep the Chief of Engineers currently informed of any unusual problems or activities associated with water control that impact on his responsibilities.

(2) *Annual Division Water Control Management Report (RCS DAEN-CWE-16(R1)).* Division commanders will submit an annual report on water control management activities within their division. The annual report will be submitted to (DAEN-CWE-HW) by 1 February each year and cover significant activities of the previous water year and a description of activities to be accomplished for the current year. Funding information for Water Control activities will be provided in the letter of transmittal for in-house use only. The primary objective of this summary is to keep the Chief of Engineers informed regarding overall water management activities Corps-wide, thus providing a basis to carry out OCE responsibilities set forth in paragraph (g)(4) of this section.

(3) *Status of Water Control Manuals.* A brief discussion shall be prepared annually by each division commander, as a separate section of the annual report on water control management activities discussed in paragraph (m)(2) of this section listing all projects currently in operation in his area, or expected to begin operation within one-year, with a designation of the status of water control manuals. The report should also list projects for which the Corps of Engineers is responsible for prescribing regulations, as defined in ER 1110-2-241, 33 CFR Part 208.

(4) *Monthly Water Control Charts (RCS DAEN-CWE-6 (R1)).* A monthly record of reservoirs/lakes operated by the Corps of Engineers and other agencies, in accordance with 33 CFR 208.11, will be promptly prepared and maintained by district/division commanders in a form readily available for transmittal to the Chief of Engineers, or others, upon request. Record data may be prepared in either graphical form as shown in EM 1110-2-3600, or tabular form as shown in the sample tabulation in Appendix D.

(5) *Annual Division Water Quality Reports (RCS DAEN-CWE-15).* By Executive Order 12088, the President

ordered the head of each Executive Agency to be responsible for ensuring that all necessary actions are taken for prevention, control, and abatement of environmental pollution with respect to Federal facilities and activities under control of the agency. General guidance is provided in references 24 and 25, Appendix A, for carrying out this agency's responsibility. Annual division water quality reports are required by reference 24, Appendix A. The report is submitted in two parts. The first part addresses the division Water quality management plan while the second part presents specific project information. A major objective of this report is to summarize information pertinent to water quality aspects of overall water management responsibilities. The annual division water quality report may be submitted along with the annual report on water control management activities discussed in paragraph 13b above.

(6) *Master Plans for Water Control Data Systems (RCS DAEN-CWE-21).* (i) A water control data system is all of the equipment within a division which is used to acquire, process, display and distribute information for real-time project regulation and associated interagency coordination. A subsystem is all equipment as defined previously within a district. A network is all equipment as defined previously which is used to regulate a single project or a group of projects which must be regulated interdependently.

(ii) Master plans for water control data systems and significant revisions thereto will be prepared by division water control managers and submitted to DAEN-CWE-HW by 1 February each year for review and approval of engineering aspects. Engineering approval does not constitute funding approval. After engineering approval is obtained, equipment in the master plan is eligible for consideration in the funding processes described in ER 1125-2-301 and engineering circulars on the annual budget request for civil works activities. Master plans will be maintained current and will:

(A) Outline the system performance requirements, including those resulting from any expected expansions of Corps missions.

(B) Describe the extent to which existing facilities fulfill performance requirements.

(C) Describe alternative approaches which will upgrade the system to meet the requirements not fulfilled by existing facilities, or are more cost effective than the existing system.

(D) Justify and recommend a system considering timeliness, reliability, economics and other factors deemed important.

(E) Delineate system scope, implementation schedules, proposed annual capital expenditures by district, total costs, and sources of funding.

(iii) Modified master plans should be submitted to DAEN-CWE-HW by 1 February, whenever revisions are required, to include equipment not previously approved or changes in scope or approach. Submittal by the February date will allow adequate time for OCE review and approval prior to annual budget submittals.

(iv) Division commanders are delegated authority to approve detailed plans for subsystems and networks of approved master plans. Plans approved by the division commander should meet the following conditions:

(A) The plan conforms to an approved master plan.

(B) The equipment is capable of functioning independently.

(C) An evaluation of alternatives has been completed considering reliability, cost and other important factors.

(D) The plan is economically justified, except in special cases where legal requirements dictate performance standards which cannot be economically justified.

(v) Copies of plans approved by the division commander shall be forwarded to appropriate elements in OCE in support of funding requests and to obtain approval of Automatic Data Processing Equipment (ADPE), when applicable.

(vi) Water control data systems may be funded from Plant Revolving Fund; O&M General; Flood Control, MR&T, and Construction, General. Funding for water control equipment that serves two or more projects will be from Plant Revolving Fund in accordance with ER 1125-2-301. District and division water control managers will coordinate plant revolving fund requests with their respective Plant Replacement and Improvement Program (PRIP) representatives following guidance provided in ER 1125-2-301. Budget funding requests under the proper appropriation title should be submitted only if the equipment is identified in an approved master plan.

(vii) Justification for the Automatic Data Processing Equipment (ADPE) aspects of water control data systems must conform to AR 18-1, Appendix I or J as required. The "Funding for ADPE" paragraph in Appendixes I and J must cite the source of funds and reference relevant information in the approved master plan and detailed plan.

(viii) Division water control managers will submit annual letter summaries of the status of their respective water control systems and five-year plan for improvements. These summaries will be submitted to DAEN-CWE by 1 June for coordination with DAEN-CWO, CWB and DSZ-A, prior to the annual budget request. Summaries should not be used to obtain approval of significant changes in master plans. Sources of funding for all items for each district and for the division should be delineated so that total system expenditures and funding requests are identified. Changes in the master plan submitted 1 February should be documented in this letter summary if the changes were approved.

(7) Summary of Runoff Potentials in Current Season (RCS DAEN-CWO-2).

(i) The Chief of Engineers and staff require information to respond to inquiries from members of Congress and others regarding runoff potentials. Therefore, the division commander will submit a snowmelt runoff and flood potential letter report covering the snow accumulation and runoff period, beginning generally in February and continuing monthly, until the potential no longer exist. Dispatch of supplemental reports will be determined by the urgencies of situations as they occur. The reports will be forwarded as soon as hydrologic data are available, but not later than the 10th of the month. For further information on reporting refer to ER 500-1-1, 33 CFR Part 203.

(ii) During major drought situations or low-flow conditions, narrative summaries of the situation should be furnished to alert the Chief of Engineers regarding the possibility of serious runoff deficiencies that are likely to call for actions associated with Corps of Engineers reservoirs.

(iii) The reports referred to in paragraphs (m)(7) (i) and (ii) of this section will include general summaries regarding the status of reservoir storage, existing and forecasted at the time of the reports.

(8) *Reports on Project Operations During Flood Emergencies.* Information on project regulations to be included in reports submitted to the Chief of Engineers during flood emergencies in accordance with ER 500-1-1 include rate of inflow and outflow in CFS, reservoir levels, predicted maximum level and anticipated date, and percent of flood control storage utilized to date. Maximum use should be made of computerized communication facilities in reporting project status to DAEN-CWO-E/CWE-HW in accordance with the requirements of ER 500-1-1, 33 CFR Part 203.

(9) *Post-Flood Summaries of Project Regulation.* Project regulation effects including evaluation of the stage reductions at key stations and estimates of damages prevented by projects will be included in the post flood reports required by ER 500-1-1, 33 CFR Part 203.

(n) *Water Control Management Boards.* (1) The Columbia River Treaty Permanent Engineering Board was formed in accordance with the Columbia River Treaty with Canada. This board, composed of U.S. and Canadian members, oversees the implementation of the Treaty as carried out by the U.S. and Canadian Entities.

(2) The Mississippi River Water Control Management Board was established by ER 15-2-13. It consists of the Division Commanders from LMVD, MRD, NCD, ORD, and SWD with the Director of Civil Works serving as chairman. The purposes of the Board are:

(i) To provide oversight and guidance during the development of basin-wide management plans for Mississippi River Basin projects for which the US Army Corps of Engineers has operation/regulation responsibilities.

(ii) To serve as a forum for resolution of water control problems among US Army Corps of Engineers Divisions within the Mississippi River Basin when agreement is otherwise unobtainable.

(o) *List of Projects.* Projects owned and operated by the Corps of Engineers subject to this regulation are listed with pertinent data in Appendix E. This list will be updated periodically to include Corps projects completed in the future. Federal legislation, Federal regulations and local agreements have given the Corps of Engineers wide responsibilities for operating projects which it does not own. Non-Corps projects subject to this regulation are included in Appendix A of ER 1110-2-241.

Appendix A—References

1. The Federal Power Act, Pub. L. 436-83, approved 10 June 1920, as amended (41 Stat. 1063; 16 U.S.C. 791(a))
2. Section 3 of the Flood Control Act approved 22 June 1936, as amended (49 Stat. 1571; 33 U.S.C. 701(c))
3. Section 9(b) of Reclamation Project Act of 1939, approved 4 August 1939 (53 Stat. 1187; 43 U.S.C. 485)
4. Section 7 of the Flood Control Act approved 22 December 1944 (58 Stat. 890; 33 U.S.C. 709)
5. Section 5 of Small Reclamation Projects Act of 6 August 1956, as amended (70 Stat. 1046; 43 U.S.C. 422(e))
6. Section 9 of Pub. L. 436-83d Congress (68 Stat. 303)
7. The Fish and Wildlife Coordination Act of 1958, Pub. L. 85-624

8. The Federal Water Project Recreation Act Uniform Policies, Pub. L. 89-72
9. The National Environmental Policy Act of 1969, Pub. L. 91-190
10. The Clean Water Act of 1977, Pub. L. 95-217
11. Executive Order 12088, Federal Compliance with Pollution Control Standards, 13 October 1978
12. 33 CFR 208.10, Local flood protection works; maintenance and operation of structures and facilities (9 FR 9999; 9 FR 10203)
13. 33 CFR 208.11, Regulations for use of Storage Allocated for Flood Control or Navigation and/or Project Operation at Reservoirs subject to Prescription of Rules and Regulations by the Secretary of the Army in the Interest of Flood Control and Navigation (43 FR 47184)
14. AR 18-1
15. ER 11-2-101
16. ER 15-2-13
17. ER 500-1-1, 33 CFR Part 203
18. ER 1110-2-241, 33 CFR Part 208
19. ER 1110-2-1400
20. ER 1110-2-1402
21. ER 1110-2-1941
22. ER 1125-2-301
23. ER 1130-2-303
24. ER 1130-2-334
25. ER 1130-2-415
26. ER 1130-2-417
27. ER 1130-2-419
28. EM 1110-2-3600

Appendix B—Summary of Corps of Engineers Responsibilities for Prescribing Regulations for Non-Corps Reservoir Projects

Summary

1. (a) "Regulations for Use of Storage Allocated for Flood Control or Navigation and/or Project Operation at Reservoirs subject to Prescription of Rules and Regulations by the Secretary of the Army in the Interest of Flood Control and Navigation" (33 CFR 208.11) prescribe the responsibilities and general procedures for regulating reservoir projects capable of regulation for flood control or navigation and the use of storage allocated for such purposes and provided on the basis of flood control and navigation, except projects owned and operated by the Corps of Engineers; the International Boundary and Water Commission, United States and Mexico; and those under the jurisdiction of the International Joint Commission, United States and Canada, and the Columbia River Treaty.

(b) Pertinent information on projects for which regulations are prescribed under Section 7 of the 1944 Flood Control Act, (Pub. L. 78-58 Stat. 890 (33 U.S.C. 709)) the Federal Power Act (41 Stat. 1063 (16 U.S.C. 791(A))) and Section 9 of Pub. L. 436-83d Congress (68 Stat. 303) is published in the *Federal Register* in accordance with 33 CFR 208.11.

Publication in the *Federal Register* establishes the fact and the date of a project's regulation plan promulgation.

2. Section 7 of Act of Congress approved 22 December 1944 (58 Stat. 890; 33 U.S.C. 709), reads as follows:

"Hereafter, it shall be the duty of the Secretary of War to prescribe regulations for the use of storage allocated for flood control or navigation at all reservoirs constructed wholly or in part with Federal funds provided on the basis of such purposes, and the operation of any such project shall be in accordance with such regulations: *Provided*, That this section shall not apply to the Tennessee Valley Authority, except that in case of danger from floods on the Lower Ohio and Mississippi Rivers the Tennessee Valley Authority is directed to regulate the release of water from the Tennessee River into the Ohio River in accordance with such instructions as may be issued by the War Department."

3. Section 9(b) of the Reclamation Project Act of 1939, approved 4 August 1939 (53 Stat. 1189, 43 U.S.C. 485), provides that the Secretary of the Interior may allocate to flood control or navigation as part of the cost of new projects or supplemental works; and that in connection therewith he shall consult with the Chief of Engineers and may perform any necessary investigations under a cooperative agreement with the Secretary of the Army. These projects are subject to 33 CFR 208.11 regulations.

4. Several dams have been constructed by State agencies under provisions of legislative acts wherein the Secretary of the Army is directed to prescribe rules and regulations for project operation in the interest of flood control and navigation. These projects are subject to 33 CFR 208.11 regulations.

5. There are few dams constructed under Emergency Conservation work authority or similar programs, where the Corps of Engineers has performed major repairs or rehabilitation, that are operated and maintained by local agencies which are subject to 33 CFR 208.11 regulations.

6. The Federal Power Act, approved 10 June 1920, as amended (41 Stat. 1063, 16 U.S.C. 791 (A)), established the Federal Power Commission, now Federal Energy Regulatory Commission (FERC), with authority to issue licenses for constructing, operating, and maintaining dams or other project works for the development of navigation, for utilization of water power and for other beneficial public uses in any streams over which Congress has jurisdiction. The Chief of Engineers is called upon for advice and assistance as needed in

formulating reservoir regulation requirements somewhat as follows:

a. In response to requests from the FERC, opinions and technical appraisals are furnished by the Corps of Engineers for consideration prior to issuance of licenses by the FERC. Such assistance may be limited to general presentations, or may include relatively detailed proposals for water control plans, depending upon the nature and scope of projects under consideration. The information furnished is subject to such consideration and use as the Chairman, FERC, deems appropriate. This may result in inclusion of simple provisions in licenses without elaboration, or relatively detailed requirements for reservoir regulation schedules and plans.

b. Some special acts of Congress provide for construction of dams and reservoirs by non-Federal agencies or private firms under licenses issued by the FERC, subject to stipulation that the operation and maintenance of the dams shall be subject to reasonable rules and regulations of the Secretary of the Army in the interest of flood control and navigation. Ordinarily no Federal funds are involved, thus Section 7 of the 1944 Flood Control Act does not apply. However, if issuance of regulations by the Secretary of the Army is required by the authority under which flood control or navigation provisions are included as functions of the specific project or otherwise specified in the FERC license, regulation plans will be prescribed in accordance with 33 CFR 208.11 regulations.

7. Projects constructed by the Corps of Engineers for local flood protection purposes are subject to conditions of local cooperation as provided in Section 3 of the Flood Control Act approved 22 June 1936, as amended. One of those conditions is that a responsible local agency will maintain and operate all works after completion in accordance with regulations prescribed by the Secretary of the Army. Most such projects consist mainly of levees and flood walls with appurtenant drainage structures. Regulations for operation and maintenance of these projects has been prescribed by the Secretary of the Army in 33 CFR 208.10. When a reservoir is included in such a project, it may be appropriate to apply 33 CFR 208.10 in establishing regulations for operation, without requiring their publication in the *Federal Register*. For example, if the reservoir controls a small drainage area, has an uncontrolled flood control outlet with automatic operation or contains less than 12,500 acre-feet of flood control or navigation storage, 33 CFR

208.10 may be suitable. However, 33 CFR 208.11 regulations normally would be applicable in prescribing flood control regulations for the individual reservoir, if the project has a gated flood control outlet by which the local agency can regulate floods.

8. Regulation plans for projects owned by the Corps of Engineers are not prescribed in accordance with 33 CFR 208.11. However, regulation plans for projects constructed by the Corps of Engineers and turned over to other agencies or local interests for operation may be prescribed in accordance with 33 CFR 208.11.

9. The Small Reclamation Projects Act of 6 August 1956 provides that the Secretary of the Interior may make loans or grants to local agencies for the construction of reclamation projects. Section 5 of the Act provides in part that the contract covering any such grant shall set forth that operation be in accordance with regulations prescribed by the head of the Federal department or agency primarily concerned. Normally, 33 CFR 208.11 is not applicable to these projects.

Appendix C—Procedures for Developing and Processing Regulations for Non-Corps Projects in Conformance with 33 CFR 208.11

1. *Sequence of actions.* a. Discussions leading to a clarification of conditions governing allocations of storage capacity to flood control or navigation purposes and project regulation are initiated by District/Division Engineers through contacts with owners and/or operating agencies concerned at regional level.

b. Background information on the project and conditions requiring flood control or navigation services, and other relevant factors, are assembled by the District Engineer and incorporated in a "Preliminary Information Report". The Preliminary Information Report will be submitted to the Division Engineer for review and approval. Normally, the agency having jurisdiction over the particular project is expected to furnish information on project features, the basis for storage allocations and any other available data pertinent to the studies. The Corps of Engineers supplements this information as required.

c. Studies required to develop reservoir regulation schedules and plans usually will be conducted by Corps of Engineers personnel at District level, except where the project regulation

affects flows in more than one district, in which case the studies will be conducted by or under supervision of Division personnel. Assistance as may be available from the project operating agency or others concerned will be solicited.

d. When necessary agreements are reached at district level, and regulations developed in accordance with 33 CFR 208.11 and EM 1110-2-3600, they will be submitted to the Division Commander for review and approval, with information copies for DAEN-CWE-HW. Usually the regulations include diagrams of operating parameters.

e. For projects owned by the Bureau of Reclamation, the respective Regional Directors are designated as duly authorized representatives of the Commissioner of Reclamation. By letter of 20 October 1976, the Commissioner delegated responsibilities to the Regional Directors as follows:

"Regarding the designated authorization of representatives of the Commissioner of Reclamation in matters relating to the development and processing of Section 7 flood control regulations, we are designating each Regional Director as our duly authorized representative to sign all letters of understanding, water control agreements, water control diagrams, water control release schedules and other documents which may become part of the prescribed regulations. The Regional Director also will be responsible for obtaining the signature of the designated operating agency on these documents where such is required. Regarding internal coordination within the Bureau of Reclamation, the Regional Directors will obtain the review and approval of this office and at appropriate offices with our Engineering and Research Center, Denver, Colorado, prior to signing water control documents."

f. In accordance with the delegation cited in paragraph e, 33 CFR 208.11 regulations pertaining to Bureau of Reclamation projects will be processed as follows:

(1) After regulation documents submitted by District Commanders are reviewed and approved by the Division Commander they are transmitted to the respective Regional Director of the Bureau of Reclamation for concurrence of comment, with a request that tracings of regulation diagrams be signed and returned to the Division Commander.

(2) If any questions arise at this stage appropriate actions are taken to resolve differences. Otherwise, the duplicate

tracings of the regulation diagram are signed by the Division Commander and transmitted to the office of the project owner for filing.

(3) After full agreement has been reached in steps (1) and (2), the text of proposed regulations is prepared in final form. Copies of any diagrams involved are included for information only.

(4) A letter announcing completion of action on processing the regulations, with pertinent project data as specified in paragraph 208.11(d)(11) of 33 CFR 208.11, and one copy of the signed tracings of diagrams are forwarded to HQDA (DAEN-CWE-HW) WASH DC 20314 for promulgation and filing. The office of the Chief of Engineers will forward the pertinent project data to the Liaison Officer with the Federal Register, requesting publication in the Federal Register.

g. Regulations developed in accordance with 33 CFR 208.11 and applicable to projects that are not under supervision of the Bureau of Reclamation are processed in substantially the manner described above. All coordination required between the Corps of Engineers and the operating agency will be accomplished at field level.

h. Upon completion of actions listed above, Division Commanders are responsible for informing the operating agencies at field level that regulations have been promulgated.

2. *Signature blocks:* Some 33 CFR 208.11 regulations contain diagrams of parameter curves that cannot be published in the Federal Register, but are made a part thereof by appropriate reference. Each diagram bears a title

block with spaces for the signature of authenticating officials of the Corps of Engineers and the owner/operating agency of the project involved.

3. *Designation of Corps of Engineers Representatives.* Division Commanders are designated representatives of the Chief of Engineers in matters relating to development and processing of 33 CFR 208.11 regulations for eventual promulgation through publication of selected data specified in paragraph (d)(11) § 208.11. Division Commanders are designated as the Corps of Engineers signee on all letters of understanding, water control agreements and other documents which may become part of prescribed regulations for projects located in their respective geographic areas, and which are subject to the provisions of 33 CFR 208.11.

Appendix D.—Sample Tabulation

BARDWELL LAKE, MONTHLY LAKE REPORT, MAY 1975

Day	Elevations 0800: 2,400 feet-MSL	Storage 2400 A-F	Evap DSF	Pump DSF	Release DSF	Inflow adj. DSF	Rain, inch
1	421.30 421.31	55979	28	2.0	0	84	0.00
2	421.32 421.37	56196	5	2.0	0	117	.00
3	421.43 421.44	56449	23	1.9	0	152	.14
4	421.45 421.47	56558	1	1.8	0	58	.00
5	421.49 421.34	56088	1	2.0	324	50	.00
6	421.20 421.01	54902	14	1.9	632	50	.00
7	420.88 420.89	54473	4	2.0	269	59	.09
8	420.89 420.91	54544	5	2.3	0	44	.00
9	420.90 420.89	54473	11	1.5	0	38	.00
10	420.90 420.90	54509	28	3.0	0	27	.00
11	420.91 421.35	56124	26	1.8	0	824	.00
12	421.54 421.65	57213	31	2.1	0	582	1.61
13	421.70 421.75	57578	29	2.2	0	216	.00
14	421.78 421.76	57614	34	1.9	249	303	.03
15	421.69 421.52	56739	22	1.9	643	225	.57
16	421.39 421.28	55871	39	2.1	535	138	.00
17	421.19 421.09	55188	10	2.2	393	119	.00
18	421.03 421.05	55045	46	2.0	143	60	.00
19	421.04 421.07	55116	17	2.3	0	55	.00
20	421.06 421.30	55943	21	2.1	0	440	.21
21	421.39 421.47	56558	20	2.1	0	332	.97
22	421.50 421.39	56268	42	2.1	247	145	.00
23	421.37 424.91	69726	31	2.0	328	7146	.22
24	425.61 426.15	74825	22	2.0	0	2595	2.38
25	426.15 426.55	76523	18	2.3	0	876	.11
26	426.72 426.80	77598	42	2.1	0	586	.00
27	426.95 427.00	78465	23	2.0	0	462	.00
28	427.14 427.15	79116	31	2.1	0	361	.19
29	427.31 427.70	81528	61	1.9	0	1279	.20
30	427.94 428.05	83082	11	2.0	0	796	1.02
31	428.20 428.22	83837	7	2.1	0	369	.00
Monthly total:							
(DSF)			700	64	3763	18626	7.74
(A-F)		27966	1389	126	7464	36945	

Appendix E—List of Projects—PERTINENT PROJECT DATA

Project name ¹	State and county	Stream ¹	Exclusive use				Multiple use				Authorizing legislation ²
			Stor- age 1000 AF	Flood control/navigation		Stor- age 1000 AF	Flood control/navigation				
				Elev. limits feet M.S.L.	Area acres		Elev. limits feet M.S.L.	Area acres			
			Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower	
Lower Mississippi Valley Division											
Algiers Lock	LA, Orleans Parish	GIWW	16.6	1.3							PL 79-14 and RHA Mar. 1945.
Allon-Gale Levees	MO, Ralls; IL, Madison	Mississippi River			493.8						FCA 1936.
Arkabutla Lake	MS, DeSoto	Coldwater River	238.3	209.3							FCA June 1936.
Ascalmore-Tripp FG & Cont Str	MS, Tallahatchie	Ascalmore Creek	136.0	118.0							FCA June 1936.
Bayou Boeuf Lock	LA, St Mary Parish	GIWW	18.0	3.0							FCA May 1928.
Bayou Cocodrie FG	LA, Cocodrie Parish	Bayou Cocodrie	46.0	13.0							FCA Aug. 1941.
Bayou Contabreau Drainage Str	LA, St Landry	Bayou Contabreau	18.5	0							FCA May 1928.
Bayou Darbonne Drainage Str	LA, Iberville Parish	Bayou Darbonne	18.5	17.0							FCA May 1928.
Bayou Sorrel Lock	LA, St Landry	GIWW	29.7	3.5							FCA May 1928.
Berwick Lock	LA, St Mary Parish	Lower Atchafalaya River	21.4	2.0							PL 74-839.
Birds Point-New Madrid Flyw	MO, New Madrid	Mississippi River	330.5	328.5							FCA May 1928.
Bodcau Lake	LA, Bossier Parish	Bayou Bodcau	199.5	157.0	357.3		21,000				PL 74-839.
Bonnet-Carre Spillway, Lake Pontchartrain	LA, St Charles Parish	Mississippi River	24.0	16.0							FCA May 1928.
Calcasieu Lock	LA, Calcasieu Parish	GIWW	3.2	2.8							PL 79-525.
Calcasieu River Saltwater Barr	LA, Calcasieu	Calcasieu River	2.7	2.3							RHA Oct 1962.
Callon Lock & Dam, PS	AR, Union	Quachita River	75.1	63.6							HD 562/87.
Caryle Lake	IL, Clinton	Kaskaskia Salt River	1.2	1.2					932.9	462.5	RHA 1950.
Cattish Point Control Str	LA, Cameron	Mormontau River									FCA June 1938.
Charenton FG	LA, St Mary	Grand Lake									RHA July 1964.
Clarence Cannon Rereg Dam	MO, Ralls	Salt River									RHA July 1946.
Collins Cr FG & Control Str	MS, Warren	Collins Creek	84.0	67.0							FCA May 1928.
Columbia DLD, PS	IL, Monroe	Long Slush Creek & IDD									FCA June 1938.
Columbia Lock & Dam	LA, Caldwell Parish	Quachita River	52.0	34.0							FCA 1941.
Commercy Bayou	AR, Chicot	Commercy Bayou	116.0	106.0							FCA 1962.
Cottonwood Slough	IL, Pulaski	Cottonwood Slough	340.5								RHA 1950.
DeGray Lake	AR, Clark	Caddo River	423.0	345.0					620.4	423.0	PL 685/84.
DeGray Reregulating Dam	AR, Clark	Caddo River	221.0	197.0					2.4	209.0	RHA 1950.
Ditch Bayou Dam	AR, Chicot	Ditch Bayou	106.0	93.0							FCA Aug. 1968.
Drainage Ditch No. 17 PS	AR, Mississippi	Ditch No. 71	255.5								FCA June 1936.
East St Louis Area PS	IL, Madison, St Clair	IDD and Streams									FCA June 1936.
East and West Calumet FG	LA, St Mary	Wax Lake Outlet Bayou Teche									FCA June 1936.
End Lake	MS, Yalobusha	Yacona River	3.0	3.0							RHA 1950.
Faithful Lock and Dam	AR, Union	Quachita River	288.0	230.0	602.4		28,000	6,100			PL 86-445
Freshwater Lock	LA, Vermilion Parish	Freshwater Bayou	8.2	4.8							FCA May 1982, PL 85-500
Graham Burke PS	AR, Phillips	White River	174.8								FCA June 1936.
Grenada Lake	MS, Grenada	Yalobusha River, Skuna River	231.0	193.0			64,600	9,800			FCA June 1936.
Harding Drain FG	AR, Jefferson	Harding Drain	206.2	198.0							FCA June 1936.
Harrisonville and Ivy Landing DLD, PS	IL, Monroe	Maestown Creek and IDD									RHA 1950.
Harvey Lock	LA, Orleans Parish	GIWW	18.8	1.3							PL 86-445
Huxtable Pumping Station	AR, Lee	St Francis River	207.2	175.0							FCA May 1982, PL 85-500
Illinois River Levees	IL, DePlaines, Grady	Illinois River									FCA June 1936.
Jonesville Lock and Dam	LA, Catahoula Parish	Black River	34.0	4.0							FCA July 1946.
Kaskaskia River Navigation L&D	IL, Randolph	Kaskaskia River	368.0	363.0							FCA 1962.
Keystone Bayou Teche L&D	LA, Martin Parish	Bayou Teche	23.5								FCA Mar. 1925.
Lake Chicot Pumping Plant	AR, Chicot	Bayou Macon	118.2	90.0							FCA May 1950.
Lake Clarence Cannon	MO, Ralls	Salt River									RHA 1950.
Lake Greeson-Narrows Dam	AR, Pike	Little Missouri River	536.0	436.9							RHA 1962.
Lake Quachitas-Blakely Mt. Dam	AR, Garland	Quachita River	592.0	480.0					1,341.0	567.2	FCA Aug. 1968.
Lake Shelbyville	IL, Shelby	Kaskaskia River	85.0	60.0					39,400	5,900	FCA June 1938.
Little Sunflower Control Str	MS, Issaquena	Little Sunflower River	58.5	40.0					2,500	28,300	FCA 1941.
Lock and Dam 1	LA, Catahoula Parish	Red River	71.2	64.0					48,300	592.0	FCA Dec. 1944.
Lock and Dam 2 John H. Overton	LA, Rapides Parish	Red River	95.0	91.5					23,300	3,000	FCA July 1958.
Lock and Dam 3	LA, Rapides Parish	Red River	120.0	119.6							FCA 1941.
Lock and Dam 4	LA, Natchitoches Parish	Red River	145.0	140.2							PL 90-483.
Lock and Dam 5	LA, Red River Parish	Red River	449.0	445.5							PL 90-483.
Lock and Dam 24	MO, Pike	Mississippi River	29.7								PL 90-483.
Lock and Dam 25	MO, Lincoln	Mississippi River	49.7								RHA July 1930.
Lock and Dam 26	MO, St Charles	Mississippi River	107.1								RHA July 1930.
L&D 27, Chair of Rocks Canal	MO, St Louis	Mississippi River	427.0	414.0							RHA Mar. 1930.
Long Branch FG Channel	LA, Catahoula	Catahoula Div.	61.3	32.0							FCA May 1950.

PERTINENT PROJECT DATA—Continued

Project name ¹	State and county	Stream ¹	Exclusive use				Multiple use				Authorizing legislation ²
			Flood control/navigation			Stor- age 1000 AF	Flood control/navigation			Stor- age 1000 AF	
			Elev. limits feet M.S.L.	Upper	Lower		Elev. limits feet M.S.L.	Upper	Lower		
Lower Tchula Lake FG McKinney Bayou PS Morganza Control Str Muddy Bayou Control Str Old River Control Str Port Allen Lock Rend Lake Rocky Bayou FG Sardis Lake Schooner Bayou Snake Creek Structure Steele Bayou Control Str Tensas-Cocodrie Pumping Station Upper Tchula Lake FG Vermilion Lock Wallace Lake Wapapallico Lake Wasp Lake FG Wilson and Wankel and Prairie du Pont Wood River DLD Yazoo City PS	MS, Humphreys MS Tunica LA, Pointe Coupee Parish MS, Warren LA, W Feliciana Parish LA, Port Allen IL, Franklin MS, Sharkey MS, Panola LA, Vermilion MS, Humphreys MS, Issaquena LA, Concordia Parish MS, Humphreys LA, Vermilion MO, Caddo Parish MO, Wayne MS, Humphreys IL, Madison, St. Clair IL, Madison MS, Yazoo	Tchula Lake McKinney Bayou Morganza Floodway Muddy Bayou Old River GIWW Big Muddy River Rocky Bayou Little Tallahatchie River Schooner Bayou Snake Creek Steele Bayou Bayou Cocodrie Tchula Lake GIWW Cypress Bayou St. Francis River Wasp Lake-Bear Creek Palmer Creek and IDD Wood River and IDD Yazoo River	110.0 84.0 186.0 59.5 77.0 68.5 65.0 35.0 48.2 4.2 88.8 281.4 1.2 101.4 68.5 37.0 108.4 5.2 3.7 88.3 613.2 111.6 96.0	84.0 182.0 49.0 68.5 35.0 4.2 73.0 236.0 1.2 91.0 60.0 23.0 92.0 142.0 354.7 88.5 69.0	58,500 10,700	269.0	410.0 391.3	24,800 5,400	FCA June 1936. FCA July 1946. FCA May 1928. FCA Oct. 1965. PL 83-780. RHA July 1946. FCA Oct. 1962. FCA 1941. FCA June 1936. FCA Aug. 1941. FCA June 1936. FCA 1941. FCA Oct. 1965. FCA June 1936. PL 79-14. RHA Mar. 1945, PL 75-761. FCA June 1936. FCA June 1936. FCA 1962. FCA 1938, FCA 1965. FCA June 1936		
Missouri River Division											
Bear Creek Dam and Reservoir Big Bend Dam and Lake Sharpe Blue Springs Dam and Lake Blue Stem Lake and Dam 4	CO, Jefferson SD, Lyman, Buffalo, Hughes MO, Jackson NE, Lancaster	Bear Creek Missouri River Little Blue River Olive Bridge, Salt Creek North Fork	26.6 63.4 15.8 7.2	5,635.5 1,423.0 820.0 1,322.5	5,558.0 1,422.0 802.0 1,307.4	664 64,200 980 660	105 62,500 720 315	122.0 10.8	1,422.0 802.0 760.0	62,500 720 0	PL 80-669. PL 78-534. PL 90-483. PL 85-500.
Bowman-Haley Dam and Reservoir Branched Oak Lake and Dam 18 Bull Hook Dam Cedar Canyon Dam Chaffald Dam and Reservoir Cherry Creek Dam and Reservoir	NE, Bowman NE, Lancaster MT, Hill SD, Pennington CO, Douglas CO, Arapahoe	Grand River Oak Creek Bull Hook Creek Scott, Coulee Deadman's Gulch South Platte Cherry Creek	73.2 71.5 6.5 0.1 208.4 80.0	2,777.0 1,311.0 2,593.0 3,545.0 5,500.0 5,598.0	2,754.8 1,284.0 2,540.0 3,526.0 5,432.0 5,550.0	5,170 3,640 11 4,822 2,634	1,750 1,780 2 852				PL 87-874. PL 85-500. PL 78-534. PL 865. PL 80-669. PL 77-228 PL 78-594. PL 80-483. PL 87-874 PL 77-228. PL 77-225. PL 85-500. PL 75-529. PL 78-534. PL 78-534. PL 78-534. PL 77-228. PL 83-780. PL 87-874.
Glenn Cunningham Lake Dam 11 Clinton Dam and Lake Cold Brook Dam and Reservoir Conestoga Lake and Dam 12 Cottonwood Springs Dam and Reservoir Fort Peck Dam and Reservoir Fort Randall Dam, Lake Francis Case Garrison Dam, Lake Sakakawea Gavins Point Dam, Lewis and Clark Lake Harlan County Dam and Lake Harry S. Truman Dam and Reservoir Hillsdale Dam and Lake Holmes Park Lake and Dam 17 Kanopolis Dam and Lake Kelly Road Dam Long Branch Dam and Lake Longview Dam and Lake Melvern Dam and Lake Milford Dam and Lake Oahe Dam and Lake	NE, Douglas KS, Douglas SD, Fall River NE, Lancaster SD, Fall River MT, Valley, McCone, Garfield SD, Gregory, Charles ND, Mercer, McLean SD, Yankton, NE, Knox NE, Harlan MO, Benton KS, Miami NE, Lancaster KS, Ellsworth CO, Arapahoe MO, Randolph MO, Jackson KS, Osage KS, Geary ND, 4 Counties, SD, 8 Coun- ties.	Little Papillon Creek Wakarusa River Cold Brook Holmes Creek Cottonwood Springs Creek Missouri River Missouri River Missouri River Missouri River Republican River Osage River Big Bull Creek Antelope Creek Smoky Hill River Westerly Creek Little East Fork, Charlton River Little Blue River Marais des Cygnes River Republican River Missouri River	14.0 268.4 6.7 8.0 7.7 977.0 985.0 1,500.0 61.2 509.0 4,005.9 83.6 5.7 370.4 0.3 30.4 24.8 208.4 757.7 1,100.0	1,142.0 903.4 3,651.4 1,232.9 3,936.0 2,250.0 1,375.0 1,850.0 1,208.0 1,946.0 739.6 931.0 1,266.0 1,508.0 5,362.0 801.0 909.0 1,057.0 1,176.2 1,620.0	1,121.0 875.5 3,651.4 1,232.9 3,875.0 2,246.0 1,365.0 1,850.0 1,208.0 1,946.0 706.0 917.0 1,242.4 1,463.0 5,342.0 791.0 891.0 1,036.0 1,144.4 1,617.0	922 7,000 198 820 214 249,000 94,800 368,000 32,000 22,830 209,260 7,410 410 3,500 36 3,670 2,429 1,960 6,930 33,000 373,000	392 129.5 36 230 41 13,600.0 3,050.0 17,700.0 95.0 319.8 1,203.4 4,580 100 55.2 24.6 32.1 22.1 154.4 415.4 16,800.0	820.0 7,000 0 0 0 2,160.0 94,800 368,000 1,204.5 1,334.0 55,600 4,580 3,500 751.1 891.0 930 6,930 1,444.4 1,540.0 1,540.0	0 0 0 0 0 91,500 42,000 129,000 25,200 13,340 0 0 0 0 0 2,429 0 930 0 16,190 359,000 117,000	PL 83-780, PL 87-874. PL 85-500. PL 85-500. PL 83-780. PL 89-298 PL 89-298 PL 90-483 PL 83-780. PL 83-780 PL 77-228. PL 83-780, PL 87-874. PL 85-500. PL 77-228. PL 84-99. PL 89-298 PL 90-483 PL 83-780. PL 83-780 PL 78-534.	
Olive Cr Lake and Dam 2 Pawnee Lake and Dam 14 Perry Dam and Lake Pipesstem Dam and Res Pomme De Terre Dam and Lake Rathbun Dam and Lake Pomona Dam and Lake Smithville Dam and Lake	NE, Lancaster NE, Lancaster KS, Jefferson MO, Stutsman MO, Polk IA, Appanoose KS, Osage MO, Clay	Olive Br of Salt Cr No. Middle Creek Delaware River Pipesstem Creek Pomme De Terre River Charlton River 110 Mile Creek Clay Little Platte River	4.0 21.0 521.9 137.0 407.2 346.3 176.8 101.9	1,350.0 1,263.5 920.6 1,496.3 874.0 928.0 1,003.0 876.2	1,355.0 1,244.3 891.5 1,442.4 839.0 904.0 974.0 864.2	335 1,470 25,340 4,754 7,890 11,000 8,520 10,000	174 728 12,200 885 7,890 205.4 4,000 7,190				PL 85-500. PL 85-500. PL 83-780. PL 89-298 PL 75-761. PL 83-780. PL 83-780. PL 89-298.

PERTINENT PROJECT DATA—Continued

Project name ¹	State and county	Stream ¹	Exclusive use				Multiple use				Authorizing legislation ²		
			Flood control/navigation		Area acres		Flood control/navigation		Area acres				
			Stor- age 1000 AF	Elev. limits M.S.L.	Upper	Lower	Stor- age 1000 AF	Elev. limits M.S.L.	Upper	Lower			
Stagecoach Lk and Dam 9	NE, Lancaster	Hickman Br of Salt Creek	4.7	1,285.0	1,271.1	490	196					PL 85-500.	
Standing Bear Lk and Dam 16	NE, Douglas	Trib. Big Papillion Creek	3.7	1,121.0	1,104.0	302	137					PL 90-483.	
Stockton Dam and Lake	MO, Cedar	Sac River	779.6	892.0	867.0	38,290	24,780	887.1	760.0	24,780	0	PL 83-780.	
Tuttle Creek Dam and Lake	KS, Riley	Big Blue River	1,941.7	1,136.0	1,075.0	54,050	15,830	192.3	993.0	15,830	0	PL 75-761.	
Twin Lakes and Dam 13	NE, Seward	Middle Cr Salt Creek	5.3	1,355.0	1,341.0	505	255					PL 85-500.	
Wagon Train Lake and Dam 8	NE, Lancaster	Hickman Br of Salt Creek	6.8	1,302.0	1,287.8	680	303					PL 85-500.	
Wilson Dam and Lake	KS, Russell	Saline River	530.7	1,554.0	1,516.0	19,980	9,040	247.8	1,420.0	9,040	0	PL 78-534, PL 84-505.	
North Atlantic Division													
Yankee Hill Lk and Dam 10	NE, Lancaster	Cardwell Br of Salt Creek	5.6	1,262.0	1,244.9	475	208					PL 85-500.	
Almond Lake	NY, Steuben	Canadadea Creek	14.6	1,300.0	1,255.0	489	124	0.5	1,255.0	124	63	PL 74-738.	
Arkport Dam	NY, Steuben	Canisteo River	8.0	1,304.0	1,218.0	192	0					PL 74-738.	
Aylesworth Creek Lake	PA, Lackawanna	Aylesworth Creek	1.7	1,150.0	1,108.0	87	7					PL 87-874.	
Beltville Dam and Lake	PA, Carbon, Monroe	Pohopoco Creek	27.0	651.0	628.0	1,411	947	39.8	628.0	947	113	PL 87-874.	
Bloomington Lake	MD, Garrett	North Branch Potomac River	36.2	1,500.0	1,466.0	1,184	952	92.0	1,466.0	952	42	PL 87-874.	
Blue Marsh Dam and Lake	PA, Lebanon, Berks	Tuiphenhooken Creek	27.1	307.0	290.0	2,159	1,147	19.9	290.0	1,147	323	PL 87-874.	
Alvin R. Bush Dam	PA, Clinton	Kettle Creek	73.4	937.0	840.0	1,430	160					FCA Sep 54.	
Cowanessque Lk	PA, Tioga	Cowanessque River	82.0	1,117.0	1,045.0	2,060	410	5.6	1,045.0	410	180	PL 85-500.	
Curwensville Lake	PA, Clearfield	West Branch Susquehanna River	114.7	1,228.0	1,162.0	3,020	790	4.6	1,162.0	790	540	FCA Sep 54.	
East Sidney Lk	NY, Delaware	Outlet Creek	30.2	1,203.0	1,150.0	1,100	210	1.7	1,150.0	1,140.0	210	PL 74-738.	
Foster Joseph Sayers Dam	PA, Centre	Bald Eagle Creek	70.2	657.0	630.0	34,500	1,730	22.5	630.0	610.0	1,730	FCA Sep 54.	
Francis E. Walter Dam, Res	PA, Carbon, Luzerne, Monroe	Lehigh River	108.7	1,450.0	1,300.0	1,830	80	80.0				PL 79-526.	
Gathright Dam and Lake Moomaw	VA, Alleghany, Bath	Jackson River	79.90	1,610.0	1,582.0	3,160	2,530	60.7	1,582.0	1,554.0	2,530	PL 79-526.	
General Edgar Jawdin Dam	PA, Wayne	Dyberry Creek	24.5	1,053.0	973.0	659	0					PL 80-858.	
Prompton Dam and Reservoir	PA, Wayne	W Br Lackawanna River	48.5	1,205.0	1,125.0	910	290					PL 89-858.	
Raystown Lake	PA, Huntingdon	Raystown Bridge	248.0	812.0	786.0	10,800	8,300	514.0	786.0	622.8	8,300	150	PL 87-874.
Stillwater Lk	PA, Susquehanna	Lackawanna River	11.6	1,621.0	1,572.0	422	83					PL 77-228.	
Tioga-Hammond Lakes	PA, Tioga County	Tioga River										PL 85-500.	
a. Hammond			54.2	1,131.0	1,086.0	1,770	680	6.0	1,086.0	1,075.0	680	400	
b. Tioga			52.5	1,131.0	1,081.0	1,630	470	7.3	1,081.0	1,060.0	470	240	
Whitney Point Lake	NY, Broome	Otselic River	66.5	1,010.0	973.0	3,340	1,200	2.5	973.0	966.0	1,200	930	PL 74-738.
York Indian Rock Dam	PA, York	Codorus Creek	28.0	435.0	370.0	1,430	0						PL 74-738.
North Central Division													
Baldhill Dam and Res	ND, Barnes	Sheyenne River		539.0				70.6	1,266.0	1,262.5	5,430	4,430	FCA Dec 1944.
Brandon Road Lock and Dam	IL, Will	Illinois River		703.6	698.7								PL 71-126.
Cedars Lock and Dam	WI, Outagamie	Fox River						458.8	712.0	670.0	24,800	1,820	RHA of 1882; 1885.
Coralville Dam and Res	IA, Johnson	Iowa River		591.0	586.7								PL 75-761.
Depree Lock and Dam	WI, Brown	Fox River		505.0									PL 71-126.
Dresden Island Lock and Dam	IL, Grundy	Illinois River											FCA of 1958.
Eau Claire Dam and Res	WI, Pierce	Eau Galle River						1.6	940.0	938.5	1,500	1,350	PL 78-534.
Farmdale Dam	IL, Tazwell	Farm Creek	11.3	616.0	551.0	385	0						PL 78-534.
Fondulac Dam	IL, Tazwell	Fondulac Creek	2.3	579.0	530.0	97	0						PL 78-534.
Gull Lake Dam and Res	MN, Cass	Gull River											PL 78-534.
Highway 75 Dam and Res	MN, Bigstone, Lac qui Parle	Minnesota River						71.6	1,194.0	1,192.8	13,139	12,869	RHA of 1889.
Homme Dam and Res	ND, Walsh	Park River						11.1	923.3	947.3	2,790	910	FCA of Oct 1965.
Lac qui Parle Dam and Res	MN, Chippewa, Swift	Minnesota River						3.7	1,080.0	1,074.0	190	176	FCA of 22 Dec 1944.
Lagrange Lock and Dam	IL, Brown	Illinois River		429.0				122.8	941.1	931.2	13,500	6,400	FCA of 22 Jun 1936.
Leech Lake Dam and Res	MN, Cass	Leech River											PL 73-184.
Little Chute Lock and Dam	WI, Outagamie	Fox River		694.2	688.9			641.5	1,295.7	1,293.2	138,289	107,200	RHA of 1882; 1895.
Little Kaukauna Lock and Dam	WI, Outagamie	Fox River		601.0	592.8								RHA of 1882; 1885.
Lock and Dam 1	MN, Hennepin, Ramsey	Mississippi River	7.7	725.1	722.8	5,800							RHA of 1910.
Lock and Dam 2	MN, Dakota, Wash	Mississippi River	35.9	687.2	666.0	11,810							RHA of 1927.
Lock and Dam 3	MN, Goodhue, Pierce	Mississippi River	143.1	675.0	674.0		17,950						RHA of 1930.
Lock and Dam 4	WI, Wabasha, Buffalo	Mississippi River	282.4	667.0	666.5	38,820							RHA of 1930.
Lock and Dam 5	MN, Winona, Buffalo	Mississippi River	29.9	660.0	659.5	12,580							RHA of 1930.
Lock and Dam 5A	MN, Winona, Buffalo	Mississippi River	15.0	651.0	650.0	7,000							RHA of 1930.
Lock and Dam 6	MN, Winona	Mississippi River	21.0	645.5	644.5	8,870							RHA of 1930.
Lock and Dam 7	MN, Winona, WI, LaCrosse	Mississippi River	37.3	639.0	639.0	13,440							RHA of 1930.
Lock and Dam 8	MN, Houston, WI, Vernon	Mississippi River	54.7	631.0	630.0	20,800							RHA of 1930.
Lock and Dam 9	WI, Crawford, IA, Allamakee	Mississippi River	92.4	620.0	619.0	66,610							RHA of 1930.
Lock and Dam 10	IA, Clayton, WI, Grant	Mississippi River	58.3	611.0	610.0	79,370							RHA of 1930.
Lock and Dam 11	IA, Dubuque	Mississippi River	150.0	603.1	602.0	21,100							RHA of 1930.
Lock and Dam 12	IA, Jackson	Mississippi River	90.0	592.1	591.0	13,000							PL 71-520.
Lock and Dam 13	IL, Whiteside	Mississippi River	164.0	583.1	582.0	30,000							PL 71-520.
Lock and Dam 14	IA, Scott	Mississippi River	80.0	572.1	571.0	10,500							PL 71-520.

PERTINENT PROJECT DATA—Continued

Project name	State and county	Stream	Exclusive use			Multiple use			Authorizing legislation
			Stor- age 1000 AF	Flood control/navigation		Stor- age 1000 AF	Flood control/navigation		
				Elev. limits feet M.S.L.	Area acres		Elev. limits feet M.S.L.	Area acres	
			Upper	Lower	Upper	Lower	Upper	Lower	
Lock and Dam 15	IL, Rock Island	Mississippi River	32.0	561.1	559.0	37,300			PL 71-520.
Lock and Dam 16	IL, Rock Island	Mississippi River	100.0	545.1	544.0	13,000			PL 71-520.
Lock and Dam 17	IL, Mercer	Mississippi River	41.6	537.1	536.0	7,580			PL 71-520.
Lock and Dam 18	IL, Henderson	Mississippi River	90.0	529.1	528.0	13,600			PL 71-520.
Lock and Dam 20	MO, Lewis	Mississippi River	80.0	481.5	476.5	7,950			PL 71-520.
Lock and Dam 21	IL, Adams	Mississippi River	70.0	470.1	469.6	9,880			PL 71-520.
Lock and Dam 22	MO, Polk	Mississippi River	85.0	459.6	459.1	8,840			RHA of 1882, 1895.
Lower Appleton Lock and Dam	WI, Outagamie	Fox River		710.9	706.3				PL 71-126.
Marselles Lock and Dam	IL, LaSalle	Mississippi River							FCA Jun 1936.
Marsh Lake Dam and Res.	MN, Swift, Lac qui Parle	Minnesota River							PL 74738.
Menasha Dam, Lake Winnebago	WI, Winnebago	Fox River	337.4	760.0	585.0	3,300	0		RHA of 1946.
Mount Morris Dam	NY, Livingston	Genesee River		581.9	578.2				FCA Jun 1948; May 1950.
O'Brien Lock and Dam	IL, Cook	Calumet							PL 73164.
Orwell Dam and Res.	MN, Ottertail	Ottertail River		440.0					RHA of 1899.
Peoria Lock and Dam	IL, Peoria	Illinois River							RHA of 1899.
Pine Dam and Res.	MN, Pine	Pine River							RHA of 1882; 1885.
Pokegama Dam and Res.	MN, Itasca	Mississippi River		608.5	602.1				FCA Dec 1944.
Rapid Croche Lock and Dam	WI, Outagamie	Fox River							PL 75-761.
Red Lake Dam and Res.	MN, Clearwater	Red Lake River							FCA of 1936.
Red Rock Dam and Res.	IL, Marion	Des Moines River							RHA of 1899.
Reservation Control Res.	MN, Traverse SD, Roberts	Sandy River							RHA of 1899.
Sandy Lake Dam and Res.	MN, Aitkin	Mississippi River							FCA of 1936.
Sayerville Dam and Res.	IA, Polk	Des Moines River		750.0	750.0	50	50		RHA of 1937; 1945.
St. Anthony Falls Lwr L&D	MN, Hennepin	Mississippi River		801.0	799.0				RHA of 1937; 1945.
St. Anthony Falls Upr L&D	MN, Hennepin	Mississippi River		459.0					PL 69-100.
Starved Rock Lock and Dam	IL, LaSalle	Illinois River		738.7	735.4				RHA of 1882; 1885.
Upper Appleton Lock and Dam	WI, Outagamie	Fox River		656.8	652.8				RHA of 1882; 1885.
Upper Kaukauna Lock and Dam	WI, Outagamie	Fox River							FCA of 1936.
White Rock Dam and Res.	MN, Traverse, SD, Roberts	Bois De Sioux							RHA of 1899.
Winnibogishish Dam and Res.	MN, Cass, Itasca	Mississippi River							
New England Division									
Ball Mountain Lake	VT, Windham	West River	54.2	1,017.0	830.5	810	20		PL 79-534, 83-780.
Barre Falls Dam	MA, Worcester	Ware River	24.0	807.0	751.0	1,400	0		PL 78-228.
Birch Hill Dam	MA, Worcester	Millers River	49.9	852.0	815.0	3,200	0		PL 75-761.
Black Rock Lake	CT, Litchfield	Branch Brook	8.5	520.0	437.0	190	21		PL 86-645.
Blackwater Dam	NH, Merrimack	Blackwater River	46.0	568.0	515.0	3,280	0		PL 75-111.
Boylumville Lake	MA, Worcester	Little River	11.3	524.0	482.5	500	200		PL 77-228.
Colebrook River Lake	CT, Litchfield, MA Berkshire	West Brook Farmington River	50.2	781.0	708.0	1,185	750		PL 86-645.
Conant Brook Dam	MA, Hampden	Conant Brook	3.7	757.0	694.0	158	0		PL 86-645.
East Brimfield Lake	MA, Hampden, Worcester	Quinebaug River	29.9	853.0	892.0	2,300	360		PL 77-228.
Edward MacDowell Lake	NH, Hillsboro	Nubiahusit Brook	12.7	946.0	911.0	840	165		PL 75-111.
Everett Lake	NH, Hillsboro, Merrimack	Piscataquog River	91.5	418.0	340.0	2,900	130		PL 75-761.
Franklin Falls Dam	NH, Belknap, Merrimack	Pemigewasset River	150.6	389.0	307.0	2,800	440		PL 75-111.
Hanock Brook Lake	CT, Litchfield	Hanock Brook	3.9	484.0	465.0	266	40		PL 86-645.
Hodges Village Dam	MA, Worcester	French River	13.3	501.0	485.5	740	0		PL 77-228.
Hop Brook Lake	CT, New Haven	Hop Brook	6.9	364.0	310.0	270	21		PL 86-645.
Hopkinton Lake	NH, Merrimack	Cottacook River	70.1	416.0	380.0	3,700	220		PL 75-761.
Knightville Dam	MA, Hampshire	Westfield River	49.0	610.0	480.0	960	0		PL 75-761.
Littellville Lake	MA, Hampden, Hampshire	Middle Bridge Westfield River	23.0	576.0	518.0	510	275		PL 85-500.
Mansfield Hollow Lake	CT, Tolland	Natnaug River	51.4	257.0	205.5	1,880	200		PL 77-228.
Northfield Br Lake	VT, Litchfield	Northfield Br	2.4	576.0	500.0	67	7		PL 86-645.
North Hartland Lake	VT, Windsor	Otaquechee River	88.8	546.5	425.0	1,100	215		PL 86-645.
North Springfield Lake	VT, Windsor	Black River	50.0	545.5	467.0	1,200	100		PL 75-761.
Otter Br Lake	NH, Cheshire	Otter Brook	17.6	781.0	701.0	374	70		PL 83-780.
Surry Mountain Lake	NH, Cheshire	Ashuelot River	31.7	550.0	500.0	970	260		PL 75-761.
Thomaston Dam	CT, Litchfield	Naugatuck River	42.0	494.0	380.0	960	0		PL 78-534.
Townshend Lake	VT, Windham	West River	32.9	553.0	478.0	735	95		PL 78-534, PL 83-780.
Tully Lake	MA, Worcester	East Br Tully River	21.5	668.0	636.0	1,130	78		PL 75-761.
Union Village Dam	VT, Orange	Ompompanoosuc River	36.0	564.0	420.0	740	0		PL 74-738.
West Hill Dam	MA, Worcester	West River	12.4	264.0	234.0	1,025	0		PL 78-534.
West Thompson Lake	CT, Windsor	Quinebaug River	25.6	342.5	305.0	1,250	200		PL 86-645.
Westville Lake	MA, Worcester	Quinebaug River	11.0	572.0	525.0	913	23		PL 77-228.
New Bedford-Fairhaven HB	MA, Bristol								PL 86-500.
Stamford HB	CT, Fairfield								PL 645-646

PERTINENT PROJECT DATA—Continued

Project name ¹	State and county	Stream ¹	Exclusive use				Multiple use				Authorizing legislation ²		
			Flood control/navigation		Stor- age 1000 AF	Flood control/navigation		Stor- age 1000 AF	Flood control/navigation				
			Elev. limits feet M.S.L.	Area acres		Elev. limits feet M.S.L.	Area acres		Upper	Lower		Upper	Lower
North Pacific Division													
Albeni Falls Dam, Lake Pend Oreille.....	ID, Bonner.....	Pend Oreille River.....										PL 81-516.	
Applegate Lake.....	OR, Jackson.....	Applegate River.....	65.2	1,987.0	1,889.0	988	369	75.2	1,987.0	1,854.0	988	211	HD 566, PL 87-874.
Big Cliff Dam.....	OR, Marion, Linn.....	North Santiam River.....						3.5	1,206.0	1,182.0	130	98	HD 544, PL 75-761.
Blue River Lake.....	OR, Lane.....	Blue River.....	6.7	1,357.0	1,350.0	975	940	78.8	1,350.0	1,180.0	940	130	HD 531, PL 81-516.
Bonneville L&D, Lake mah.	WA, Skamania, OR, Multno- mah.	Columbia River.....						138.0	77.0	70.0	20,800	19,850	PW 1933.
Chena River Lakes.....	AK, North Star, Borough.....	Chena River.....	225.0	529.0	490.0	1,300	400						PL 90-483.
Chief Joseph Dam, Rufus Woods Lake.....	WA, Douglas, Okanogan.....	Columbia River.....						192.3	956.0	930.0	7,850	6,800	HD 693, PL 79-525
Cottage Grove Lake.....	OR, Lane.....	Coast Fork, Willamette River.....	1.1	791.0	790.0	1,155	1,135	28.7	790.0	750.0	1,135	295	HD 544, PL 75-761.
Cougar Lake.....	OR, Lane.....	South Fork, McKenzie River.....	11.3	1,699.0	1,690.0	1,280	1,235	143.9	1,690.0	1,532.0	1,235	635	HD 531, PL 81-516.
Detroit Lake.....	OR, Marion, Linn.....	North Santiam River.....	19.1	1,569.0	1,563.5	3,490	3,455	281.6	1,563.5	1,450.0	3,455	1,725	HD 544, PL 75-761.
Dexter Dam.....	OR, Lane.....	Middle Fork, Willamette River.....						4.8	695.0	690.0	990	940	HD 544, PL 75-761.
Dorena Lake.....	OR, Lane.....	Row River.....	5.5	835.0	832.0	1,885	1,815	65.0	832.0	770.5	1,815	520	HD 544, PL 75-761.
Dworshak dam and Reservoir.....	ID, Clearwater.....	North Fork, Clearwater River.....						201.6	1,600.0	1,445.0	17,090	9,050	HD 544, PL 81-874.
Fall Creek Dam and Lake.....	OR, Lane.....	Fall Creek.....	7.3	834.0	830.0	1,865	1,760	106.8	830.0	728.0	1,760	460	HD 531, PL 81-874.
Fern Ridge Lake.....	OR, Lane.....	Long Tom River.....	15.7	375.1	373.5	10,305	9,340	93.9	373.5	353.0	9,340	1,515	HD 544, PL 75-761.
Forster Lake.....	OR, Linn.....	South Santiam River.....	4.9	641.0	736.0	1,260	1,195	24.9	637.0	613.0	1,195	895	HD 544, PL 81-516.
Green Peter Lake.....	OR, Linn.....	Middle Fk, Santiam River.....	18.3	1,015.0	1,010.0	3,705	3,605	249.9	1,010.0	922.0	3,605	2,072	HD 531, PL 81-516.
Hills Creek Lake.....	OR, Lane.....	Middle Fk, Willamette River.....	5.6	1,543.0	1,541.0	2,850	2,710	194.5	1,541.0	1,448.0	2,710	1,575	HD 531, PL 81-516.
Howard Hanson Dam.....	WA, King.....	Green River.....						28.0	1,141.0	1,040.0	763	13	HD 531, PL 81-516.
Ice Harbor Dam, Lake Sacajawea.....	WA, Walla Walla, Franklin.....	Snake River.....						24.9	440.0	437.0	8,370	8,210	HD 704, PL 79-14.
John Day Dam, Lake Umatilla.....	OR, Sherman, WA, Klickitat.....	Columbia River.....	500.0	268.0	257.0	55,000	42,000	150.0	265.0	282.0	52,000	49,000	HD 531, PL 81-516.
Libby Dam, Lake Kootenai.....	MT, Lincoln.....	Kootenai River.....						46.365	2,459.0	2,287.0	46,365	14,391	HD 531, PL 81-516.
Little Goose L&D, Lake Bryan.....	WA, Columbia, Whitman.....	Snake River.....						49.0	638.0	633.0	10,030	9,820	HD 704, PL 79-14.
Lookout Point Lake.....	OR, Lane.....	Middle Fk, Willamette River.....	12.8	929.0	926.0	4,315	4,255	324.2	926.0	825.0	4,255	2,080	HD 544, PL 75-761.
Lower Granite L&D, Lake.....	OR, Jackson.....	Rogue River.....	45.0	1,872.0	1,812.0	3,430	2,600	315.0	1,872.0	1,751.0	3,430	1,800	HD 566, PL 87-874.
Lower Monumental L&D, Lake HG West.....	WA, Garfield, Whitman.....	Snake River.....						43.6	738.0	733.0	8,900	8,540	HD 704, PL 79-14.
Lucky Peak Dam and Lake.....	WA, Walla Walla, Franklin.....	Snake River.....						20.0	540.0	537.0	6,700	6,550	PL 79-526.
McNary L&D, Lake Wallula.....	ID, Ada.....	Boise River.....						185.0	3,060.0	2,905.0	2,817	802	HD 704, PL 79-14.
Mill Creek Dam, Lake.....	WA, Benton, OR, Umatilla.....	Columbia River.....						5	1,205.0	1,195.0	53	40	HD 578, PL 75-761.
Mud Mountain Dam.....	WA, Walla Walla.....	Mill Creek.....	7.5	1,265.0	1,205.0	225	53						PL 74-738.
The Dalles L&D, Lake Celilo.....	WA, King, Pierce.....	White River.....	106.3	1,215.0	895.0	963	0						HD 531, PL 81-526.
Wynoochee Dam and Lake.....	WA, Klickitat, OR, Wasco.....	Columbia River.....						52.5	160.0	155.0	11,200	10,350	HD 601, PL 99-251.
Ohio River Division													
Allegheny Lake and Dam No. 2.....	PA, Allegheny.....	Allegheny River.....		721.0	710.0								RHA 1935.
Allegheny Lake and Dam No. 3.....	PA, Allegheny.....	Allegheny River.....		734.5	721.0								RHA 1935.
Allegheny Lake and Dam No. 4.....	PA, Allegheny, Westmoreland.....	Allegheny River.....		745.0	734.5								RHA 1921.
Allegheny Lake and Dam No. 5.....	PA, Armstrong.....	Allegheny River.....		756.8	745.0								RHA 1912.
Allegheny Lake and Dam No. 6.....	PA, Armstrong.....	Allegheny River.....		769.0	756.8								RHA 1912.
Allegheny Lake and Dam No. 7.....	PA, Armstrong.....	Allegheny River.....		782.1	769.0								RHA 1912.
Allegheny Lake and Dam No. 8.....	PA, Armstrong.....	Allegheny River.....		800.0	782.1								RHA 1912 and 1935.
Allegheny Res. Kinzua Dam.....	PA, Warren.....	Allegheny River.....	607.0	1,365.0	1,328.0	21,180	12,080	549.0	1,328.0	1,240.0	12,080	1,900	PL 74-738.
Atwood Lake.....	OH, Delaware.....	Alum Creek.....	53.1	901.0	888.0	4,852	3,387	79.2	888.0	841.5	3,387	312	PL 87-874.
Barley Dam, Lake Barkley.....	OH, Tuscarawas.....	Indian Fork Creek.....	26.1	941.0	928.0	2,460	1,540	7.6	928.0	822.5	1,250	1,250	PW 1933.
Barren River Lake.....	KY, Lyon, Livest.....	Cumberland River.....	1,213.0	375.0	359.0	9,343.0	57,920	259.0	359.0	354.0	57,920	45,210	PL 79-525
Beech City Lake.....	KY, Allen, Warren.....	Barren River.....	558.8	590.0	552.0	20,150	10,000	190.3	552.0	525.0	10,000	4,340	PL 75-261.
Beech Fork Lake.....	OH, Tuscarawas.....	Sugar Creek.....	68.9	976.5	965.0	6,150	10,000					420	PW 1933.
Belleville Lake and Dam.....	WV, Wayne.....	Beech Fork Creek.....	28.3	614.5	592.0	1,847	725	5.0	592.0	583.5	725	460	PL 87-874.
Belleville Lake.....	WV, Wood, OH, Meigs.....	Ohio River.....		592.0	560.0								RHA 1909.
Bluestone Lake.....	OH, Mahoning, Portage.....	Mahoning River.....	38.3	1,032.0	1,024.7	5,500	3,590	56.6	1,024.7	980.0	3,590	240	PL 75-761.
Bolivar Dam.....	OH, Summers.....	New River.....	592.6	1,520.0	1,410.0	9,180	2,040	7.5	1,410.0	1,406.0	2,040	1,800	PL 74-738; PL 75-761.
Brookville Lake.....	IN, Franklin.....	Sandy Creek.....	149.6	962.0	950.0	6,500			895.0			0	PW 1933.
Buckhorn Lake.....	KY, Leslie.....	E. Fork of Whitewater River.....	175.6	775.0	748.0	7,790	5,260	128.4	748.0	713.0	5,260	2,430	PL 75-761.
Burnsville Lake.....	WV, Braxton.....	Middle Fork of Kentucky River.....	135.8	840.0	782.0	3,610	1,230	10.2	782.0	776.0	1,230	550	PL 75-761.
Caesar Creek Lake.....	OH, Warren.....	L. Kanawha River.....	51.5	825.0	789.0	1,902	965	10.2	789.0	757.0	965	553	PL 75-761.
Cagles Mill Lake.....	IN, Putnam.....	Caesar Creek.....	140.2	883.0	849.0	6,110	2,830	88.7	849.0	800.0	2,830	700	PL 75-761.
Cannelton Lake and Dam.....	IN, Hancock, IN, Perry.....	Mill Creek.....	201.0	704.0	690.0	4,840			636.0			1,400	PL 75-761.
Carr Fork Lake.....	KY, Knott.....	Ohio River.....		383.0	358.0								RHA 1909.
Cave Run Lake.....	KY, Rowan.....	Carr Creek.....	25.1	1,055.0	1,027.0	1,120	710	10.8	1,027.0	1,008.0	710	530	PL 87-874.
C. M. Harden Lake.....	IN, Parke.....	Licking River.....	391.5	765.0	730.0	1,487	6,270	75.3	730.0	627.0	8,270	6,790	PL 74-738.
		Raccoon Creek.....	83.5	890.0	661.0	3,910	2,060	33.1	661.0	640.0	2,060	1,100	PL 75-761.

PERTINENT PROJECT DATA—Continued

Project name ¹	State and county	Stream ¹	Exclusive use				Multiple use				Authorizing legislation ²
			Stor- age 1000 AF	Flood control/navigation		Stor- age 1000 AF	Flood control/navigation				
				Elev. limits feet M.S.L.	Area acres		Elev. limits feet M.S.L.	Area acres			
			Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower	
Center Hill Lake	TN, Dekalb	Caney Fork	762.0	685.0	23,060	492.0	648.0	618.0	18,220	14,590	PL 75-761.
Charles Mill Lake	OH, Ashland	Black Fork	80.6	1,020.0	397.0	4.5	997.0	993.0	1,350	827	PW 1933.
Cheatham Lake and Dam	TN, Cheatham	Cumberland River	385.0	359.0	6,050	1,350	359.0	359.0	2,120	1,010	RHA 1946 and PL 396.
C. J. Brown Dam and Reservoir	OH, Clark	Buck Creek	26.8	1,023.0	2,720	26.9	1,012.0	995.0	1,800	1,430	PL 87-874.
Clendenen Lake	OH, Harrison	Brush Fork	27.5	910.5	2,620	8.0	898.0	893.0	1,300	300	PW 1933.
Conemaugh River, Lake	PA, Indiana, Westmoreland	Conemaugh River	270.0	975.0	6,820	8.0	898.0	893.0	1,300	300	PL 74-738; PL 75-761.
Cordell Hull Dam and Reservoir	PA, Smith	Cumberland River	89.4	504.0	445.0	496.0	504.0	445.0	27,700	21,890	RHA 1946.
Crooked Creek Lake	PA, Armstrong	Crooked Creek	353.0	663.0	30,980	496.0	663.0	651.0	27,700	21,890	PL 74-738; PL 75-761.
Dale Hollow Lake	TN, Clay	Ober River	81.5	844.0	4,046	1,277	844.0	810.0	1,277	727	RHA 1909.
Dashields Lock and Dam	PA, Allegheny	Ohio River	81.5	844.0	4,046	1,277	844.0	810.0	1,277	727	PL 75-761.
Deer Creek Lake	OH, Pickaway	Deer Creek	118.0	947.0	8,550	5.6	915.0	910.0	1,270	950	PL 75-761.
Delaware Lake	OH, Delaware	Orient River	76.1	866.0	3,340	1,100	866.0	845.0	1,100	880	PL 75-761.
Dewey Lake	KY, Floyd	Johns Creek	286.5	790.0	10,280	1,560	790.0	734.0	1,560	1,330	PL 75-761.
Dillon Lake	OH, Muskingum	Licking River	203.0	915.0	10,100	858.0	915.0	858.0	1,560	1,330	PW 1933.
Dover Dam	OH, Tuscarawas	Tuscarawas River	19.0	1,850.0	1,370	1,160	1,850.0	1,555.0	2,160	820	PL 78-526.
E. Branch Clanton River Lake	PA, Elk	E. Branch Clanton River	202.2	793.0	730.0	2,160	793.0	730.0	2,160	820	PL 75-761.
E. Fork Lake Wm. H. Harsha Lake	OH, Clermont	E. Fork Little Miami River	65.3	701.0	662.0	1,005	701.0	662.0	1,005	823	PL 75-761.
East Lynn Lake	WV, Wayne	E. Fork Twelve-mile Creek	126.7	710.0	692.0	2,681	710.0	692.0	1,131	569	RHA 1909.
Emsworth Lock and Dam	PA, Allegheny	Ohio River	89.6	538.0	515.0	1,509	538.0	515.0	1,509	1,040	PL 75-761.
Fishtrap Lake	KY, Pike	Levisa Fork	479.1	713.0	675.0	8,210	713.0	675.0	8,210	5,070	PL 75-761.
Gallipolis Lock and Dam	WV, Mason OH, Gallia	L. Sandy River	349.1	337.3	349.1	337.3	349.1	337.3	349.1	310	RHA 1888.
Grayson Lake	KY, Carter	Green River	515.0	485.0	602.0	602.0	485.0	602.0	602.0	310	RHA 1888.
Green River Lock and Dam No. 1	KY, Henderson	Green River	440.0	430.0	421.8	421.8	430.0	421.8	421.8	310	RHA 1888.
Green River Lock and Dam No. 2	KY, Taylor	Green River	440.0	430.0	421.8	421.8	430.0	421.8	421.8	310	RHA 1888.
Green River Lock and Dam No. 3	KY, McLean	Green River	440.0	430.0	421.8	421.8	430.0	421.8	421.8	310	RHA 1888.
Hannibal Lock and Dam	WV, Wetzel, OH, Monroe	Ohio River	440.0	430.0	421.8	421.8	430.0	421.8	421.8	310	RHA 1888.
Hildebrand Lock and Dam	WV, Monongalia	Ohio River	440.0	430.0	421.8	421.8	430.0	421.8	421.8	310	RHA 1888.
Huntington Lake	IN, Hunt	Wabash River	140.6	798.0	749.0	900	798.0	749.0	900	500	RHA 1909.
J. Percy Priest Dam and Reservoir	TN, Davidson	Stones River	252.0	504.5	22,720	14,400	504.5	489.5	14,400	14,400	PL 85-500.
J. W. Flannagan Dam and Reservoir	VA, Dickenson	Pound River	78.6	1,446.0	1,396.0	1,143	1,446.0	1,396.0	1,143	1,143	PL 75-761.
Kentucky River Lock and Dam No. 1	KY, Carroll	Kentucky River	440.0	430.0	421.8	421.8	430.0	421.8	421.8	310	RHA 1879.
Kentucky River L&D No. 2	KY, Henry, Owen	Kentucky River	440.0	430.0	421.8	421.8	430.0	421.8	421.8	310	RHA 1879.
Kentucky River L&D No. 3	KY, Henry, Owen	Kentucky River	440.0	430.0	421.8	421.8	430.0	421.8	421.8	310	RHA 1879.
Kentucky River L&D No. 4	KY, Franklin	Kentucky River	17.9	977.5	963.0	1,470	977.5	963.0	1,470	1,000	RHA 1879.
Laurel River Lake	KY, Laurel, Whitley	Laurel Creek	17.9	977.5	963.0	1,470	977.5	963.0	1,470	1,000	PW 1933.
Leesville Lake	OH, Carroll	McGuire Creek	814.0	590.0	590.0	590.0	590.0	590.0	590.0	590.0	PW 1933.
Loyalhanna Lake	PA, Westmoreland	Loyalhanna Creek	83.3	975.0	3,280	3,280	975.0	910.0	3,280	210	PL 74-738; PL 75-761.
Mahoning Creek Lake	PA, Armstrong	Mahoning Creek	89.7	1,620.0	1,620.0	1,620.0	1,620.0	1,075.0	1,620.0	170	PL 74-738; PL 75-761.
Markland L&D	IN, Switzerland	Ohio River	455.0	430.0	420.0	420.0	430.0	420.0	420.0	170	RHA 1909.
Martins Fork Lake	WV, Kanawha	Kanawha River	590.0	566.0	566.0	566.0	566.0	566.0	566.0	274	RHA 1930.
Maxwell L&D	KY, Heriatic	Martins Fork of Clover River	14.3	1,310.0	1,310.0	1,310.0	1,310.0	1,300.0	1,310.0	340	RHA 1909.
McAlpine L&D	PA, Fayette, Washington	Monongahela River	420.0	743.5	743.5	743.5	743.5	743.5	743.5	274	RHA 1909.
Melidahl L&D	KY, Jefferson, IN, Clark	Ohio River	420.0	743.5	743.5	743.5	743.5	743.5	743.5	274	RHA 1909.
Mississinewa Lake	KY, Brecken, OH, Clermont	Ohio River	420.0	743.5	743.5	743.5	743.5	743.5	743.5	274	RHA 1909.
M. J. Kriwan Dam and Reservoir	IN, Miami	Mississinewa River	293.2	779.0	779.0	779.0	779.0	779.0	779.0	274	PL 85-500.
Mohawk Dam	OH, Portage	W. Br. Mahoning River	22.0	993.0	985.5	2,650	993.0	985.5	2,650	1,280	PL 74-738; PL 75-761.
Mohicanville Dam	OH, Coshocott	Walshoning River	285.0	990.0	990.0	990.0	990.0	990.0	990.0	1,280	PW 1933.
Monongahela River L&D No. 2	OH, Ashland	Lake Fork	102.0	963.0	963.0	963.0	963.0	963.0	963.0	1,280	PW 1933.
Monongahela River L&D No. 3	PA, Allegheny	Monongahela River	718.7	718.7	718.7	718.7	718.7	718.7	718.7	1,280	RHA 1902.
Monongahela River L&D No. 4	PA, Allegheny	Monongahela River	726.9	718.7	718.7	718.7	718.7	718.7	718.7	1,280	RHA 1905.
Monongahela River L&D No. 7	PA, Washington, Westmoreland	Monongahela River	743.5	726.9	726.9	726.9	726.9	726.9	726.9	1,280	RHA 1909.
Monongahela River L&D No. 7	PA, Green, Fayette	Monongahela River	778.0	763.0	763.0	763.0	763.0	763.0	763.0	1,280	RHA 1922.
Monroe Lake	IN, Monroe	Salt Creek	258.8	556.0	536.0	159.9	556.0	536.0	159.9	3,280	FCA 1958.
Montgomery Island L&D	PA, Beaver	Ohio River	682.0	664.5	664.5	664.5	664.5	664.5	664.5	10,750	RHA 1909.
Morganstown L&D	WV, Monongahela	Monongahela River	814.0	797.0	797.0	797.0	797.0	797.0	797.0	10,750	RHA 1909.
Mosquito Creek Lake	OH, Trumbull	Mosquito Creek	904.0	901.4	8,900	80.4	901.4	881.0	80.4	7,850	PL 75-761.
Nolin Lake	KY, Edmonson	Nolin River	439.2	560.0	515.0	106.4	560.0	515.0	106.4	700	PL 75-761.
Newburgh L&D	KY, Henderson, IN, Warrick	Ohio River	358.0	342.0	14,530	5,790	342.0	342.0	5,790	2,890	PL 75-761.
Newcumberland L&D	WV, Hancock, OH, Jefferson	Ohio River	664.5	644.0	644.0	644.0	644.0	644.0	644.0	4,790	RHA 1909.
N. Br. Kokosing River Lake	OH, Knox	North Br. of Kokosing River	13.9	1,146.0	1,140	154	1,146.0	1,121.0	154	154	PL 87-874.
N. Fk. Pound Lake	VA, Wise	N. Fk. Pound River	8.0	1,644.0	1,611.0	1.3	1,644.0	1,601.0	1.3	106	PL 86-645.
Ohio River L&D No. 52	KY, McCracken, IL, Massac	Ohio River	302.0	290.0	349	154	290.0	290.0	154	106	RHA 1909, 1910, 1918.

PERTINENT PROJECT DATA—Continued

Project name ¹	State and county	Stream ¹	Exclusive use				Multiple use				Authorizing legislation ²
			Flood control/navigation		Area acres		Flood control/navigation		Area acres		
			Stor- age 1000 AF	Elev. limits M.S.L.	Upper	Lower	Stor- age 1000 AF	Elev. limits M.S.L.	Upper	Lower	
Ohio River L&D No. 53.....	KY, Ballard, IL, Pulaski.....	Ohio River.....	188.0	290.0	276.6	27,450	19,550				RHA 1909, 1910, 1918.
Old Hickory L&D.....	TN, Davidson.....	Cumberland River.....		450.0	442.0						RHA 1946.
Opelika L&D.....	WV, Monongahela.....	Monongahela River.....		857.0	835.0						RHA 1950.
Paint Creek Lake.....	OH, Ross, Highland.....	Paint Creek.....	124.7	845.0	798.0	4,761	1,190	798.0	1,190	710	PL 75-761.
Patoka Lake.....	IN, DuBois.....	Patoka River.....	121.1	548.0	536.0	11,300	8,880	536.0	8,880	2,010	PL 89-298.
Piedmont Lake.....	OH, Harrison.....	Stillwater Creek.....	32.2	924.6	913.0	3,170	2,310	909.0	2,310	1,987	PW 1933.
Pike Island L&D.....	WV, Ohio, OH, Belmont.....	Ohio River.....		644.0	623.0						RHA 1909.
Pleasant Hill Lake.....	OH, Ashland.....	Clear Fork.....	74.2	1,065.0	1,020.0	2,600	850	1,020.0	850	627	PW 1933.
Racine L&D.....	WV, Mason, OH, Meigs.....	Ohio River.....		560.0	538.0						RHA 1909.
R. D. Bailey Lake.....	WV, Mingo, Wyoming.....	Guyandot.....	169.5	1,155.0	1,035.0	2,850	630	1,035.0	630	440	PL 87-874.
Rough River Lake.....	KY, Grayson, Breckinridge.....	Rough River.....	214.4	524.0	495.0	10,260	5,100	495.0	5,100	2,180	PL 75-761.
Salamonie Lake.....	IN, Wabash.....	Salamonie River.....	202.9	793.0	755.0	9,340	2,860	755.0	2,860	976	PL 85-500.
Senecaville Lake.....	OH, Guernsey.....	Seneca Fork.....	45.1	842.5	832.2	5,170	3,550	832.2	3,550	2,912	PW 1933.
Shenango River Lake.....	PA, Mercer.....	Shenango River.....	151.0	919.0	896.0	11,090	3,560	896.0	3,560	1,910	PL 75-761.
Smithland L&D.....	KY, Livingston, IL, Pope.....	Ohio River.....		324.0	302.0						RHA 1909.
Summersville Lake.....	WV, Nicholas.....	Gauley River.....	221.9	1,710.0	1,652.0	4,913	2,790	1,652.0	2,790	514	PL 75-761.
Sutton Lake.....	WV, Braxton.....	Elk River.....	201.2	1,000.0	925.0	3,875	1,520	925.0	1,520	270	PL 75-761.
Tappan Lake.....	OH, Harrison.....	L. Stillwater Creek.....	26.5	909.0	899.3	3,100	2,350	899.3	2,350	1,960	PW 1933.
Tonesta Lake.....	PA, Forest.....	Tonesta Creek.....	125.6	1,170.0	1,170.0	2,770		1,085.0		480	PL 74-738; PL 75-761.
Tom Jenkins Dam, Burr Oak Lake.....	OH, Athens.....	E. Br Sandy Creek.....	17.6	740.0	721.0	1,192	644	721.0	664	384	FCA 1944; PL 78-534.
Tygart Lake.....	WV, Taylor.....	Tygart River.....	178.1	1,670.0	1,094.0	3,430	1,740	1,094.0	1,740	620	PWA 1934.
Union City Res.....	PA, Erie.....	French Creek.....	47.6	1,278.0	1,278.0	2,290					PL 87-874.
Uniontown L&D.....	KY, Union, IN, Posey.....	Ohio River.....		342.0	324.0						RHA 1909.
W. F. Mill Cr. Winton Woods Lake.....	OH, Hamilton.....	W. Fork Mill Creek.....	9.8	702.0	582.0	557		675.0		183	PL 79-526.
Willow Island L&D.....	WV, Pleasants, OH, Washing- ton.....	Ohio River.....		602.0							RHA 1909.
Willis Creek Lake.....	OH, Coshocton, Muskingum.....	Willis Creek.....	190.0	779.0		1,450			742.0	900	PW 1933.
Winfield L&D.....	WV, Putnam.....	Kanawha River.....		566.0	538.0						RHA 1935.
Wolf Cr Dam, Lake Cumberland.....	KY, Russell.....	Cumberland River.....	2,094.0	760.0	723.0	63,530	50,250	723.0	50,250	35,820	PL 75-761.
Woodcock Cr Lake.....	PA, Crawford.....	Woodcock Creek.....	15.0	1,209.0	1,181.0	755	325	1,181.0	325	100	FCA 1962.
Youghiogheny River Lake.....	PA, Fayette.....	Youghiogheny River.....	99.5	1,470.0	1,439.0	3,570	2,840	1,439.0	2,840	450	FCA 1938.
South Atlantic Division											
Aberdeen Lock, Dam and Res.....	MI, Monroe.....	Tombigbee River.....	3.9	190.5	189.5	4,359	3,883				PL 79-525.
Aliceville Lock, Dam and Res.....	AL, Pickens.....	Tombigbee River.....	7.6	136.5	135.5	8,655	7,945				PL 79-525.
Allatoona Dam and Reservoir.....	GA, Barrow.....	Etowah River.....	302.6	860.0	840.0	19,201	11,862				PL 77-228.
G.W. Andrews Lock Dam and Res.....	AL, Houston, GA Early.....	Chattahoochee River.....	6.2	102.0	96.0	1,540	1,190				PL 79-14.
John Hollis Bankhead L&D and Res.....	AL, Tuscaloosa.....	Black Warrior River.....									PL 60-168.
Bay Springs Lock, Dam and Res.....	MI, Tishomingo.....	Tombigbee River.....	6.7	414.5	413.5	6,615		27.1	255.0	8,730	PL 79-525.
Bulford Dam, Lake Sidney Lanier.....	GA, Forsyth, Gwinnett.....	Chattahoochee River.....	598.8	1,085.0	1,071.0	47,182	38,542	38.2	1,071.0	38,542	PL 79-14.
Carters Dam and Reservoir.....	GA, Murray.....	Cossawattie River.....	89.2	1,099.0	1,074.0	3,880	3,275				PL 79-14.
Claiborne Lock, Dam and Res.....	AL, Monroe.....	Alabama River.....	16.6	35.0	32.0	5,930	5,210				PL 79-14.
Clarks Hill Dam and Lake.....	GA, Columbia, SC, McCormick.....	Savannah River.....	390.0	335.0	330.0	78,500	70,000				PL 78-534.
Coffeeville Lock, Dam and Res.....	AL, Clark, Choctaw.....	Tombigbee River.....	19.9	32.5	30.0	6,500	7,500				PL 60-317.
Columbus Lock, Dam and Res.....	MI, Lapeere.....	Tombigbee River.....	8.5	163.5	162.5	9,875	8,500				PL 79-525.
Dempopolis Lock, Dam and Res.....	AL, Sumter, Marengo.....	Tombigbee River.....	45.0	76.0	73.0	14,800	10,000				PL 60-317.
Falls Dam and Lake.....	NC, Wake.....	Neuse River.....	244.3	264.0	250.0	22,860	12,400				PL 89-298.
Gainesville Lock, Dam and Res.....	AL, Sumter, Greene.....	Tombigbee River.....	5.8	109.5	108.5	6,920	5,800				PL 79-525.
W. F. George Lock, Dam and Res.....	GA, Clay, AL, Henry.....	Chattahoochee River.....						244.0	190.0	45,181	PL 81-516.
Hartwell Dam and Lake.....	GA, Hart, SC, Anderson.....	Savannah River.....	283.0	665.0	660.0	61,400	56,000			36,375	PL 81-516.
Holt Lock, Dam and Res.....	AL, Tuscaloosa.....	Black Warrior River.....						3.3	187.0	3,296	PL 60-317.
Inglis Dam and Lake Rousseau.....	FL, Levy, Citrus.....	Cross FL Barge Canal.....	13.0	27.5	24.0	4,030	2,040				PL 77-675.
James Bluff Lock, Dam and Res.....	NC, Chatham.....	Alabama River.....	438.4	240.0	216.0	32,000	14,300	44.6	125.8	10,470	PL 79-14.
B. Everett Jordan Dam and Lake.....	VA, Mecklenburg.....	Haw River.....	1,281.4	320.0	300.0	83,200	48,900				PL 88-253.
John H. Kerr Dam and Res.....	MI, Monroe.....	Roanoke River.....	0.9	220.5	219.5	961	850				PL 78-534.
Lock A.....	MI, Monroe.....	Tombigbee River.....	2.7	245.5	244.5	2,841	2,615				PL 79-525.
Lock B.....	MI, Monroe.....	Tombigbee River.....	1.6	270.5	269.5	1,676	1,586				PL 79-525.
Lock C.....	MI, Iawamba.....	Tombigbee River.....	2.0	300.5	299.5	2,021	1,959				PL 79-525.
Lock D.....	MI, Iawamba, Prentiss.....	Tombigbee River.....	0.9	330.5	329.5	889	821				PL 79-525.
Lock E.....	AL, Wilcox.....	Tombigbee River.....									PL 79-14.
Millers Ferry Lock, Dam and Res.....	MI, Lauderdale.....	Okatiebe Cr. Chickasawhay River.....	46.5	352.0	343.0	6,580	3,800	31.1	80.8	18,530	PL 79-14.
Okatiebe Dam and Res.....	MI, Lauderdale.....	Okatiebe Cr. Chickasawhay River.....								16,160	PL 87-874.

Project name '

Project name ¹	State and county	Stream ¹	Exclusive use				Multiple use				Authorizing legislation ²		
			Stor- age 1000 AF	Flood control/navigation		Stor- age 1000 AF	Flood control/navigation						
				Elev. limits feet M.S.L.	Area acres		Elev. limits feet M.S.L.	Area acres					
			Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower			
Lake Okeechobee.....	FL, Okeechobee, Glades, Hendry, Palm Beach, Martin.	Central and southern FL.....	3,388.0	24.9	17.5	490,000	454,900	2,859.0	17.5	10.5	454,900	326,000	PL 71-520, PL 75-392, PL 79-14, PL 80-858, PL 83-780, PL 90- 483.
Philpott Dam and Lake.....	VA, Henry.....	Smith River.....	81.1	998.0	974.0	4,062	2,880						PL 78-534.
Randolph Dam and Lake.....	NC, Randolph.....	Deep River.....	46.0	694.0	682.0	4,710	3,045						PL 90-483.
R. B. Russell Dam and Lake.....	GA, Elbert, SC, Abbeville.....	Savannah River.....	140.0	480.0	475.0	29,340	26,653						PL 89-789.
S-10 and Water Cons Area 1.....	FL, Palm Beach.....	Central and southern FL.....	181.9	18.3	17.0	141,250	141,250	273.2	17.0	14.0	141,250	26,000	PL 80-858.
S-11 and Water Cons Area 2A.....	FL, Palm Beach and Broward.....	Central and southern FL.....	236.3	16.6	14.5	110,500	110,500	165.0	14.5	13.0	110,500	107,500	PL 80-858, PL 83-780.
S-12 and Water Cons Area 3A.....	FL, Broward and Dade.....	Central and southern FL.....	1,681.0	14.5	10.5	487,200		465.0	10.5	9.6		316,000	PL 77-875.
Rodman Dam and Lake Oklawaha.....	FL, Putnam and Marion.....	Cross FL Berge Canal.....	46.0	23.2	20.0	17,350	12,950						PL 90-483.
Tallahala Dam and Reservoir.....	MI, Jasper.....	Tallahala Creek Leaf River.....	67.3	317.5	306.5	7,535	4,1845						PL 79-526.
W. Kerr Scott Dam and Reservoir.....	NC, Wilkes.....	Yadkin River.....	112.0	1,075.0	1,030.0	4,000	1,475						PL 60-317
Warrior Lock, and Reservoir.....	AL, Hale, Greene.....	Black-Warrior River.....	9.1	95.5	94.0	8,200	6,900						PL 87-874
West Point Dam and Reservoir.....	GA, Troup.....	Chattahoochee River.....						221.0	635.0	625.0	25,864	18,593	PL 87-874
Jim Woodruff Lock, Dam and Res.....	FL, Gadsden, Jackson.....	Apalachicola River.....						40.2	77.5	76.5	41,590	38,850	PL 79-14
South Pacific Division													
Alamo Lake.....	AZ, Mohave, Yuma.....	Bill Williams River.....	1,045.3	1,235.0	1,200.0	13,000	9,450	651.2	1,200.0	1,046.0	9,450	556	PL 78-534.
Bear Dam.....	CA, Mariposa.....	Bear Creek.....	7.7	413.5	344.0	265	0						PL 78-534.
Black Butte Lake.....	CA, Tehama.....	Stony Creek.....						137.1	473.5	414.6	4,453	577	PL 78-534.
Brea Dam.....	CA, Orange.....	Brea Creek.....	4.0	279.0	208.0	161	0						FCA 1936.
Buchanan Dam, H. V. Eastman Lake.....	CA, Madera.....	Chowchilla River.....						45.0	587.0	559.0	1,785	1,482	PL 78-874.
Burns Dam.....	CA, Merced.....	Burns Creek.....	6.8	300.0	266.0	662	0						PL 78-534.
Carbon Canyon Dam.....	CA, Orange.....	Carbon Creek.....	6.6	475.0	403.0	223	0						PL 74-738
Coyote Dam, Lake Mendocino.....	CA, Mendocino.....	East Fork Russian River.....						122.5	784.8	637.0	1,960		PL 75-761.
Farmington Dam.....	CA, San Joaquin, Stanislaus.....	Littlejohn Creek.....	52.0	156.5	120.0	4,107	0						PL 78-534.
Fullerton Dam.....	CA, Orange.....	Fullerton Creek.....	0.8	261.0	290.0	60	0						PL 78-534.
Hansen Dam.....	CA, Los Angeles.....	Tujunga Wash.....	26.1	1,060.0	990.0	790	200						FCA 1936.
Hidden Dam Hensley Lake.....	CA, Madera.....	Fresno River.....						65.0	540.0	485.8	1,567	811	PL 87-874.
Isabella Lake.....	CA, Kern.....	Kern River.....						567.9	2,605.5	2,470.0	11,454	26	PL 78-534.
Mariposa Dam.....	CA, Mariposa.....	Mariposa Creek.....	15.0	439.5	370.0	512	0						PL 78-534.
Martis Creek Lake.....	CA, Nevada.....	Martis Creek.....						19.4	5,838.0	5,780.0	760	60	PL 87-874.
Mathews Canyon Dam.....	NV, Lincoln.....	Mathews Canyon.....	6.3	5,461.0	5,420.0	298	0						PL 81-516.
Mojave River Dam.....	CA, Bernardino.....	Mojave River.....	89.7	3,134.0	2,988.0	1,980	0						PL 86-845.
New Hogan Lake.....	CA, Calaveras.....	Calaveras River.....						165.0	713.0	667.6	4,333	2,858	PL 78-534.
Owens Dam.....	CA, Mariposa.....	Owens Creek.....	3.6	407.5	347.0	174	0						PL 78-534.
Painted Rock Dam.....	AZ, Maricopa.....	Gila River.....	2,491.7	661.0	530.0	53,200	0						PL 81-516.
Pine Canyon Dam.....	NV, Lincoln.....	Pine Canyon.....	7.8	5,676.0	5,604.0	254	0						PL 81-516.
Pine Flat Lake.....	CA, Fresno.....	Santa Ana River.....						1,000.0	951.5	565.5	5,956	0	PL 78-534.
Prado Dam.....	CA, Riverside.....	Santa Ana River.....	198.2	543.0	460.0	6,710	0						FCA 1936.
San Antonio Dam.....	CA, Los Angeles.....	San Antonio Creek.....	7.7	2,238.0	2,125.0	139	0						FCA 1936.
Santa Fe Dam.....	CA, Los Angeles.....	San Gabriel River.....	32.6	496.0	421.0	1,070	0						FCA 1936.
Sepulveda Dam.....	CA, Los Angeles.....	Los Angeles River.....	17.3	710.0	668.0	2,510	0						FCA 1936.
Success Lake.....	CA, Tulare.....	Tule River.....						75.8	652.5	587.0	2,477	379	PL 78-534.
Terminus Dam Lake Kaweah.....	CA, Tulare.....	Kaweah River.....	35.9	2,166.0	2,056.0	819	0						PL 78-534.
Whitlow Ranch Dam.....	AZ, Pinal.....	Queen Creek.....	36.2	229.0	184.0	2,480	0						PL 79-526
Whittier Narrows Dam.....	CA, Los Angeles.....	San Gabriel River, Rio Hondo.....											FCA 1936.
Southwestern Division													
Abiquiu Dam.....	NM, Rio Arriba.....	Rio Chama.....	572.2	6,283.5		7,469							PL 80-858.
Addicks Res.....	TX, Harris.....	Buffalo Bayou.....	204.5	114.0	73.0	16,779	0						PL 250/83/2; RHA 1938.
B A Sternmagen Lake.....	TX, Taylor, Jasper.....	Neches River.....	24.5	83.0	81.0	13,700	10,950	0	73.0		10,950	0	SD 98/76/1.
Bardwell Lake.....	TX, Ellis.....	Wachacha Creek.....	79.6	439.0	421.0	6,040	3,570	53.1	81.0		3,570		PL 86-399.
Barker Res.....	TX, Harris, Ft Bend.....	Buffalo Bayou.....	207.0	107.0	75.0	17,225	0	42.8	421.0				HD 250/83/2; RHA 1938.
Beaver Lake.....	TX, Carroll.....	White River.....	300.0	1,130.0	1,120.0	28,220	28,220	925.1	75.0			15,540	PL 83-780.
Beaton Lake.....	TX, Bell.....	Leon River.....	644.2	631.0	594.0	23,600	12,400	357.1	594.0	1,120.0	1,077.0	42	PL 79-526, HD 88/81/1.
Beaumont Lake.....	TX, Tarrant, Parker.....	Clear Fork, Trinity River.....	170.4	724.0	694.0	7,630	3,770	72.5	694.0	656.0	3,770	70	PL 87-874, HD 572/87/2.
Big Hill Lake.....	KN, Lubbock.....	Big Hill Creek.....	13.1	867.5	858.0	1,520	1,240	19.2	858.0	814.0	1,240	384	PL 87-874, HD 563/87/2.
Blanch Lake.....	OK, Osage.....	Blanch Creek.....	39.0	774.0	750.5	2,340	1,140	27.2	750.5	730.0	1,140		PA 75-761.
Blue Mountain Lake.....	AR, Yell.....	Pettit Jean River.....	233.0	419.0	384.0	11,000	2,910						PL 85-500.
Broken Bow Lake.....	OK, McCurtain.....	Mountain Fork River.....	450.2	627.5	599.5	18,000	14,200	469.8	599.5		14,200	9,200	PL 75-761HD 569/75/3.
Bull Shoals Lake.....	OK, Baxter, Marion.....	White River.....	2,360.0	695.0	654.0	71,240	45,440	1,003.0	654.0	628.5	45,440	33,800	PL 75-761HD 569/75/3.
Canton Lake.....	OK, Blain.....	N. Canadian River.....	265.8	1,638.0	1,615.4	15,710	7,910	97.2	1,615.4	1,596.5	7,910		PL 79-14.
Canyon Lake.....	TX, Comal.....	Guadalupe River.....	354.7	934.0	909.0	12,890	8,240	366.4					PL 79-525, HD 758/79/2.
Chouteau Lock and Dam 17.....	OK, Wagoner.....	Verdigris River.....											

PERTINENT PROJECT DATA—Continued

Project name ¹	State and county	Stream ¹	Exclusive use				Multiple use				Authorizing legislation ²	
			Flood control/navigation				Flood control/navigation					
			Storage 1000 AF	Elev. limits feet M.S.L.		Area acres	Storage 1000 AF	Elev. limits feet M.S.L.		Area acres		
			Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower		
Clearwater Lake.....	MO, Reynolds, Wayne	Black River.....	391.0	567.0	494.0	10,400	1,630	0	494.0	467.0	1,630	PL 79-761,
Cocfil Lake.....	NM, Sandoval, Santa Fe, Los Alamos,	Rio Grande.....	482.2	5,460.5	5,321.5	9,361	1,200	46.2	5,321.4	1,200	1,200	PL 86-645.
Conchas Lake.....	NM, San Miguel	Canadian River.....	198.8	4,218.0	4,201.0	13,664	9,892	259.6	4,201.0	4,155.0	9,892	HD 308/74.
Copan Lake.....	OK, Washington KS, Chautauqua,	L. Caney River.....	184.3	732.0	710.0	13,380	4,850	42.8	710.0	687.5	4,850	PL 87-874, HD 563/87/2.
Council Grove Lake.....	KS, Morris	Neosho River.....	63.8	1,289.0	1,274.0	5,400	3,230	48.5	1,274.0	1,240.0	3,230	PL 81-516,
David D. Terry Lock and Dam 6	AR, Pulaski	Arkansas River.....						65.3	231.0	4,170	4,170	HD 758/79,
Jardanelle Lake, Lock and Dam 10	AR, Pope, Yell	Arkansas River.....						25.5	336.0	34,300	31,100	HD 758/79 RHA 1946.
DeQueen Lake.....	AR, Howard, Sevier	Rolling Fork River.....	101.3	473.5	437.0	4,050	1,680	65.3	437.0	336.0	1,680	PL 85-500,
Dierks Lake.....	AR, Butler	Saline River.....	67.1	557.5	526.0	2,970	1,360	15.1	526.0	512.0	1,360	710
Eldorado Lake.....	KS, Montgomery	Walnut River.....	79.2	1,347.5	1,339.0	10,740	8,000	154.0	1,339.0	1,296.0	8,000	420
Elk City Lake.....	OK, McIntosh, Pittsburg, Haskell,	Elk River.....	239.5	825.0	796.0	13,150	4,450	44.8	796.0	764.0	4,450	PL 89-298, HD 232/89/1.
Eufaula Lake.....	OK, Greenwood	Canadian River.....	1,470.0	597.0	585.0	143,750	102,200	1,465.0	585.0	565.0	46,900	HD 440/76/1.
Fall River Lake.....	OK, Wagoner	Fall River.....	234.5	987.5	948.5	10,400	2,350	15.0	948.5	940.0	2,340	HD 440/76/1.
Fort Gibson Lake.....	OK, Woodward	Neosho River (Grand).....	919.2	582.0	554.0	51,000	19,100	53.7	554.0	551.0	19,100	FCA 1941, RHA 1946.
Fort Supply Lake.....	NM, Santa Fe	Wolf Creek.....	86.8	2,028.0	2,004.0	5,690	1,820	13.9	2,004.0	1,988.0	1,820	PL 74-738.
Gallisteo Dam.....	TX, Denton, Tarrant	Gallisteo Creek.....	79.4	569.0	502.0	4,680	1,370	29.3	502.0	464.5	1,370	PL 86-645.
Gilham Lake.....	TX, Denton, Tarrant	Cossatot River.....	188.7	569.0	502.0	4,680	1,370	29.3	502.0	464.5	1,370	PL 85-500,
Grapevine Lake.....	TX, Denton, Tarrant	San Gabriel River.....	162.2	528.0	504.0	11,040	4,400	37.0	504.0	475.0	4,400	PL 87-874,
Great Salt Plains Lake.....	OK, Alfalfa	Denton Creek.....	243.1	560.0	535.0	12,710	7,280	154.3	535.0	475.0	7,380	41
Greens Ferry Lake.....	OK, Creek	Little Red River.....	240.0	1,138.5	1,125.0	27,730	8,693	0	1,125.0	1,115.0	8,690	HD 103/77/1.
Hayburn Lake.....	TX, Coleman	Polecat Creek.....	934.0	487.0	461.0	40,480	31,460	716.5	461.0	435.0	31,460	PL 74-738.
Hords Creek Lake.....	TX, Coleman	Hords Creek.....	48.4	784.0	761.5	3,700	917	3.8	761.5	55.5	917	PL 75-761.
Hugo Lake.....	OK, Choctaw	Kiamichi River.....	16.7	1,920.0	1,900.0	1,280	510	5.8	1,900.0	1,800.0	510	PL 79-526,
Juluah Lake.....	OK, Osage, KS, Chautauqua	Caney River.....	809.1	437.5	404.5	34,490	13,250	127.2	404.5	390.0	13,250	PL 77-228.
Jemez Canyon Dam.....	NM, Sandoval	Jemez River.....	257.9	765.0	733.0	13,000	3,570	31.1	733.0	710.0	3,570	PL 74-738.
John Martin Res.....	CO, Bent	Arkansas River.....	73.0	5,232.0	5,232.0	2,877	11,655	350.9	5,232.0	5,150	448.0	PL 80-858, PL 81-516.
John Redmond Dam and Res.....	KS, Coffey	Neosho River.....	270.3	3,870.0	3,851.0	17,630	11,655	350.9	3,851.0	3,820.0	5,660	PL 74-738.
Kaw Lake.....	OK, Kay, Otage, KS, Cowley	Arkansas River.....	559.0	1,068.0	1,039.0	31,700	9,300	70.8	1,039.0	1,020.0	9,300	PL 81-156.
Keystone Lake.....	OK, Tulsa	Arkansas River.....	919.4	1,044.5	1,010.0	38,020	17,040	343.5	1,010.0	78.0	17,040	PL 87-874,
Lavon Lake.....	TX, Marion	Cypress Creek.....	1,216.0	754.0	723.0	55,400	26,020	287.5	723.0	706.0	26,020	PL 81-516.
Lewisville Lake, Garza-Little Elm Dam	TX, Collin	East Fork Trinity River.....	579.5	249.5	228.5	38,200	18,700	380.0	228.5	201.0	18,700	PL 79-526,
Lock and Dam 13.....	TX, Denton	Elm Fork Trinity River.....	275.6	503.5	492.0	29,450	21,400	303.5	492.0	453.0	21,400	HD 533/78/2,
Lock and Dam 9.....	AR, Sebastian, Crawford	Arkansas River.....	525.2	532.0	515.0	39,080	23,280	436.0	515.0	448.0	23,280	12
Lock and Dam 5.....	AR, Conway	Arkansas River.....							392.0	6,820	6,820	HD 758/79, RHA 1946.
Lock and Dam 4.....	AR, Jefferson	Arkansas River.....							287.0	5,660	5,660	HD 758/79, RHA 1946.
Lock and Dam 3.....	AR, Jefferson	Arkansas River.....							213.0	6,680	6,680	HD 758/79, RHA 1946.
Lock and Dam 2.....	AR, Desha, Arkansas	Arkansas River.....							196.0	5,680	5,680	HD 758/79, RHA 1946.
Lock and Dam 1 (Norrie L&D)	AR, Arkansas	Arkansas River.....							182.0	3,670	3,670	HD 758/79, RHA 1946.
Marion Lake.....	KS, Marion	Arkansas River.....							162.0	10,600	10,600	HD 758/79, RHA 1946.
Millwood Lake.....	AR, Little R, Hempstead	Cottonwood River.....	60.2	1,358.5	1,350.5	9,050	6,200	83.3	1,350.5	1,320.0	6,200	HD 758/79, RHA 1946.
Murray Lock and Dam 7.....	AR, Pulaski	Little River.....	1,650.0	287.0	259.2	95,200	29,200	153.3	259.2	252.0	29,200	PL 81-516,
Navarro Mills Lake.....	TX, Navarro, Hill	Arkansas River.....							342.5	9,700	9,700	PL 79/526, HD 758/79.
Newt Graham Lock and Dam 8	OK, Wagoner	Verdigris River.....	143.2	443.0	424.5	11,700	5,070	53.2	424.5	424.5	5,070	RHA 1946.
Nimrod Lake.....	AR, Perry	Fourche La Pave River.....							532.0	1,490	1,490	HD 498/83/2,
North Fork Lake.....	AR, Baxter, MO, Ozark	North Fork River.....	307.0	373.0	342.0	18,300	3,550	0	342.0	314.9	3,550	PL 79/525,
O C Fisher Lake.....	TX, Williamson	N.F. San Gabriel River.....	732.0	580.0	580.0	30,700	21,990	707.0	580.0	552.0	21,990	FCA 1938.
Oologah Lake.....	TX, Tom Green	N. Concho River.....	87.6	834.0	791.0	3,220	1,310	29.2	791.0	791.0	1,310	PL 75-761.
Optima Lake.....	OK, Rogers	Verdigris River.....	277.2	1,938.5	1,908.0	12,700	5,440	80.4	1,908.0	1,840.0	5,440	PL 87-874, HD 581/82/2.
Ozark Jetta Lake.....	OK, Texas	N. Canadian River.....	965.6	661.0	638.0	56,800	28,460	544.1	638.0	592.0	28,460	PL 77-228,
Pat Mayse Lake.....	AR, Franklin	Arkansas River.....	100.5	2,779.0	2,763.5	7,640	5,340	117.7	2,763.5	2,708.0	5,340	PL 75-761.
Pine Creek.....	TX, Lamar	Sanders Creek.....							19.4	372.0	370.0	PL 74-738.
Proctor Lake.....	OK, McCurtain	Little River.....	64.6	460.5	451.0	7,680	5,993	119.9	451.0	415.0	5,990	PL 85-500,
Robert S. Kerr Lock and Dam 15	OK, Comanche	Leon River.....	388.1	1,480.0	1,473.0	17,230	4,980	70.6	1,473.0	1,443.5	4,980	PL 83-790, HD 535/81/2.
Sam Rayburn Reservoir.....	TX, Jasper, San Augustine Angella,	Arkansas River.....	310.1	1,970.0	1,962.0	14,010	4,610	31.4	1,962.0	1,862.0	4,610	PL 85-500,
Santa Rosa.....	NM, Guadalupe	Pecos River.....	1,099.4	1,730	1,64.4	142,700	114,500	1,446.2	1,64.4	148.0	114,500	HD 981/76/1.
Somerville Lake.....	TX, Washington Lee, Burleson	Yegua Creek.....	167.0	4,797.0	4,776.5	10,740	7,115	200.0	4,776.5	4,715.5	7,115	PL 83-780,
Stillhouse H. Lake.....	TX, Bell	Lampasas River.....	337.7	258.0	238.0	24,400	11,460	238.0	238.0	238.0	11,460	PL 83-780,
Table Rock Lake.....	MO, Taney	White River.....	390.6	666.0	622.0	11,830	204.9	622.0	622.0	622.0	204.9	PL 83-780,
			760.0	931.0	915.0	52,250	43,070	1,182.0	915.0	881.0	43,070	PL 77-228, FCA 1938.

PERTINENT PROJECT DATA—Continued

Project name ¹	State and county	Stream ¹	Exclusive use				Multiple use				Authorizing legislation ²		
			Flood control/navigation				Flood control/navigation						
			Stor- age 1000 AF	Elev. limits feet M.S.L.		Area acres		Stor- age 1000 AF	Elev. limits feet M.S.L.			Area acres	
				Upper	Lower	Upper	Lower		Upper	Lower		Upper	Lower
Tenkiller Ferry Lake Texoma Lake, Denison Dam	OK, Cherokee, Sequoyah TX, Marshall, OK, Bryan, Cook, Grayson,	Illinois River Red River	576.7 2,464.9	667.0 640.0	632.0 617.25	20,800 143,000	12,900 89,000	371.0 1,634.1	632.0 617.25	594.5 590.0	12,900 89,000	7,370 43,890	RHA 1946. PL 75-761.
Toad Suck Ferry Lock and Dam 8	AR, Faulkner, Perry	Arkansas River							265.0		4,130		RHA 1946, HD 758/79.
Toronto Lake	KS, Woodson	Verdigris River	172.8	931.0	901.5	10,000	2,560	10.8	901.5	896.7	2,560	1,720	HD 440/76/1.
Trinidad Lake	CO, Las Animas	Purgatoire River	58.0	6,260.0	6,230.0	2,107	1,453	20.0	6,230.0		1,453		PL 85-500.
Two Rivers Dam	NM, Chaves	Rio Hondo	150.0	4,032.0	3,944.0	4,806	0						PL 83-780.
W D Mayo Lock and Dam 14	OK, Sequoyah, LeFlore	Arkansas River						3.0	413.0	411.0	1,595	1,410	PL 79-525.
Waco Lake	TX, McLennan	Bosque River	552.7	500.0	455.0	19,420	7,270	100.8	455.0		7,240		PL 83-780, HD 535/81/2.
Waurika Lake	OK, Jefferson	Beaver Creek	140.4	962.5	951.4	15,000	10,100	199.7	951.4	910.0	10,100	630	PL 88-253.
Webbers Falls Lock and Dam 16	OK, Muskogee	Arkansas River						30.0	490.0	487.0	10,900	9,300	PL 79-525.
Whitney Lake	TX, Hill, Bosque	Brazos River	1,372.0	571.0	533.0	49,820	23,560	381.9	533.0	448.8	23,560	475	PL 77-228, HD 390/76/1.
Wister Lake	OK, LeFlore	Pouteau river	400.8	502.5	471.6	23,070	4,005	30.0	471.6	450.0	4,005	138	PL 75-761.
Wright Patman Lake	TX, Bowie, Cass	Sulphur River	2,509.0	259.5	220.0	119,700	20,300	142.7	220.0	199.0	20,300		PL 79-526.

¹Res—Reservoir; Lk—Lake; Div—Diversion; R—River; CR—Creek; Fk—Fork; L&D—Lock and Dam; GLWW—Gulf Intracoastal Waterways; FG—Floodgate; PS—Pumping Station; DL—Drainage and Levee District; IDD Interior Drainage Ditches.
²PL—Public Law; HD—House Document; RHA—River and Harbor Act; PW—Public Works; FCA—Flood Control Act.

[FR Doc. 82-27162 Filed 10-7-82; 8:45 am]

BILLING CODE 3710-92-M

ENVIRONMENTAL PROTECTION
AGENCY

40 CFR Part 123

[W-8-FRL 2218-3]

Utah Division of Oil, Gas, and Mining;
Underground Injection Control
Program ApprovalAGENCY: Environmental Protection
Agency.

ACTION: Approval of State Program.

SUMMARY: The State of Utah has submitted an application under Section 1425 of the Safe Drinking Water Act for the approval of an Underground Injection Control (UIC) Program governing Class II oil and natural gas related injection wells. After careful review of the application, the Agency

has determined that the State's injection well program for Class II wells meets the requirements of Section 1425 of the Act and, therefore, approves it.

EFFECTIVE DATE: This approval is effective October 8, 1982.

FOR FURTHER INFORMATION CONTACT:

Michael J. Salazar, Chief, Utah/Montana/South Dakota Section, Drinking Water Branch, Environmental Protection Agency, Region VIII, 1660 Lincoln Street, Denver, Colorado 80295, (303) 837-2731. Copies of the Responsiveness Summary are available at the above address.

SUPPLEMENTARY INFORMATION: Part C of the Safe Drinking Water Act (SDWA) provides for an Underground Injection Control (UIC) program. Section 1421 of the SDWA requires the Administrator to promulgate minimum requirements for

effective State programs to prevent underground injection which endangers drinking water sources. The Administrator is also to list in the **Federal Register** each State for which in his judgment a State UIC program may be necessary. Each State listed shall submit to the Administrator an application which contains a showing satisfactory to the Administrator that the State: (i) Has adopted, after reasonable notice and public hearings, an UIC program which meets the requirements of regulations in effect under Section 1421 of the SDWA; and (ii) will keep such records and make such reports with respect to its activities under its UIC program as the Administrator may require by regulations. After reasonable opportunity for public comment, the

Administrator shall by rule approve, disapprove, or approve in part and disapprove in part, the State's UIC program.

The SDWA was amended on December 5, 1980, to include Section 1425, which establishes an alternative method by which a State may obtain primary enforcement responsibility for those portions of its UIC Program related to the recovery and production of oil and natural gas (Class II wells).

Specifically, instead of meeting the Consolidated Permit Regulations (40 CFR Parts 122, 123 and 124) and the UIC Technical Criteria and Standards (40 CFR Part 146), a State may demonstrate that its program meets the more general statutory requirements of Section 1421(b)(1) (A) through (D) and represents an effective program to prevent endangerment of underground sources of drinking water.

The State of Utah was listed as needing a UIC program on September 25, 1978 (43 FR 43420). The State of Utah submitted complete applications under Sections 1422 and 1425 on March 22 and 23, 1982, for the approval of an UIC program governing Classes I, II, III, IV and V injection wells. The program would be administered by the Utah Division of Health (UDEH) for Classes I, III, IV, and V wells, and the Utah Division of Oil, Gas, and Mining (DOGM) for Class II wells (1425 application)). On April 7, 1982, EPA published notice of its receipt of the application, announced the availability of the application for review, requested public comments, and scheduled a public hearing. The public hearing was held on May 6, 1982, in Salt Lake City, Utah. Because the review processes for each of the two components of the application did not coincide, only the Class II component of the application is going forward at this time. A decision on the application for Class I, III, IV and V wells will be made at a later date consistent with a review period extension which was agreed to by EPA and the Utah DEH. After careful review of the application and comments received from the public, I have determined that the Utah UIC program for Class II wells submitted by the DOGM meets the requirements established by Federal regulations pursuant to Section 1425 of the SDWA and, hereby, approve it.

Because this action approves State requirements that already are in effect and imposes no new substantive requirements, EPA has determined that it is appropriate to have the approval effective immediately upon publication in the *Federal Register*. In addition, this will mean that beginning immediately after publication of this notice any Class

II UIC permits issued by the State will be issued under a federally approved program.

In this application, Utah chose not to assert jurisdiction over Indian lands or reservations for purposes of its UIC program. Therefore, the Environmental Protection Agency will, at a future date, prescribe a UIC program governing injection wells on any Indian lands or reservations in Utah.

The terms listed below comprise a complete listing of the thesaurus terms associated with 40 CFR Part 123, which sets forth the requirements for a State requesting the authority to operate its own permit program of which the Underground Injection Control program is a part; these terms may not all apply to this particular notice:

List of Subjects in 40 CFR Part 123

Hazardous materials, Indians—lands, Reporting and recordkeeping requirements, Waste treatment and disposal, Water pollution control, Water supply, Intergovernmental relations, Penalties, Confidential business information.

OMB review: The Office of Management and Budget has exempted this rule from the requirements of Section 3 of Executive Order 12291.

Certification Under the Regulatory Flexibility Act: Pursuant to the provisions of 5 U.S.C. 605(b), I certify that approval by EPA under Section 1425 of the Safe Drinking Water Act of the application by the Utah Division of Oil, Gas, and Mining will not have a significant economic impact on a substantial number of small entities, since this rule only approves State actions. It imposes no new requirements on small entities.

Dated: October 1, 1982.

Anne M. Gorsuch,
Administrator.

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40 CFR Part 180

[PP 2E2685/R485; PH-FRL 2223-1]

Tolerances and Exemptions From Tolerances for Pesticide Chemicals in or on Raw Agricultural Commodities; Cuprous Oxide

AGENCY: Environmental Protection Agency (EPA).

ACTION: Final rule.

SUMMARY: This rule establishes an exemption from the requirement of a tolerance for copper in meat, milk,