US Army Corps
of Engineers

Northwestern Division
Missouri River Basin
Water Management Division

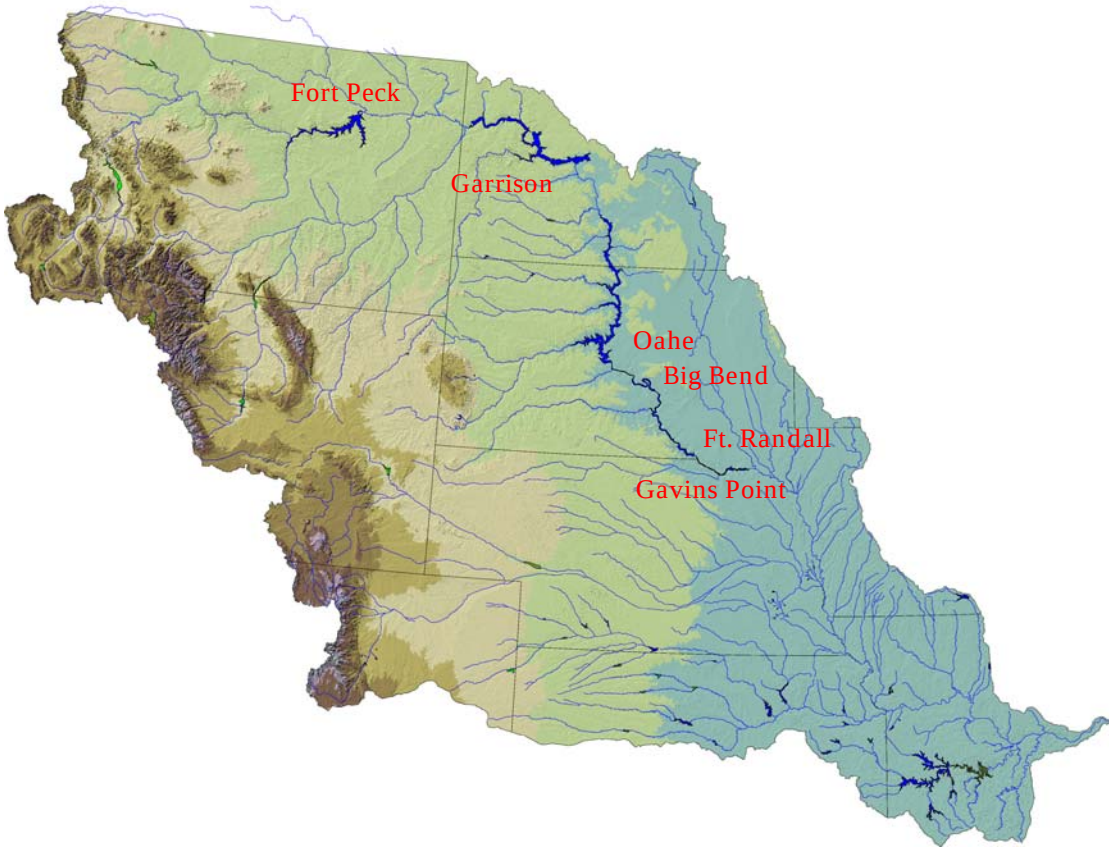
Final

AOP

2005-2006

Missouri River Mainstem System

2005-2006 Annual Operating Plan



Annual Operating Plan Process
53 Years Serving the Missouri River Basin

January 2006

DEPARTMENT OF THE ARMY
NORTHWESTERN DIVISION, CORPS OF ENGINEERS
12565 WEST CENTER ROAD
OMAHA, NEBRASKA 68144-3869

REPLY TO
ATTENTION OF:

January 31, 2006

This Annual Operating Plan (AOP) presents information regarding the Corps of Engineers' regulation of the Missouri River Mainstem Reservoir System (System) through December 2006. The information provided in this AOP is based on water management guidelines designed to meet the regulation objectives of the Missouri River Master Water Control Manual (Master Manual). These guidelines are applied to computer simulations of System regulation assuming inflow scenarios based on water supply records from 1898 to 1997. This approach provides a wide range of water management simulations for dry, average, and wet conditions.

The AOP provides a framework for the development of detailed monthly, weekly, and daily regulation schedules for the System's six individual dams during the upcoming year to serve its Congressionally authorized project purposes, comply with the Endangered Species Act, and fulfill the Corps Tribal trust and treaty responsibilities. In addition, 5-year extensions to the AOP water management simulations, through March 2012, are presented to serve as guides for longer range planning. System water management is provided by my staff at the Missouri River Basin Water Management Division, Northwestern Division, U.S. Army Corps of Engineers located in Omaha, Nebraska.

On December 16, 2003, and in response to the Corps's request for the reinitiation of consultation, the U.S. Fish and Wildlife Service (USFWS) issued an amendment to its 2000 Biological Opinion (2003 Amended BiOp). The 2003 Amended BiOp included a "reasonable and prudent alternative" (RPA) that called for a two "spring pulses" and a low summer release from the System. The 2003 Amended BiOp allowed a two-year period of study prior to implementing the spring pulses to establish an acceptable flow management plan, which will likely avoid jeopardy to the continued existence of the pallid sturgeon and will not result in the destruction, or adverse modification of critical habitat in the Missouri River. This AOP includes the potential for two spring pulses, which could be implemented in March and again in May of 2006, depending on hydrologic conditions. Revision of the Missouri River Master Manual addressing the spring pulse technical criteria is expected to be complete by the end of February. The 2003 Amended BiOp also called for a 'low summer release', below what would normally be required for navigation support. The 2003 Amended BiOp also included a provision that the low summer release may be modified, in consultation with the USFWS, if 1200 acres of shallow water habitat (SWH) for the endangered pallid sturgeon was constructed. This SWH was constructed in 2004, therefore, this AOP does not include provisions for summer flows below minimum service. The Corps will continue to construct new SWH habitat as required by the 2003 Amended BiOp, and monitor all of the constructed SWH to confirm that it is providing the anticipated biological benefits to the pallid sturgeon and ecosystem upon which it depends.

A draft of this AOP along with draft Master Manual spring pulse technical criteria was made available to the public in October 2005. Eight public meetings on the Draft 2005-2006 AOP and the draft Master Manual spring pulse technical criteria were held as follows: November 14, 2005 in Omaha and Nebraska City, Nebraska; November 15, 2005 in Kansas City, Missouri; November 16, 2005 in St. Louis and Jefferson City, Missouri; November 17, 2005 in Pierre, South Dakota and Bismarck, North Dakota; and November 18, 2005 in Glasgow, Montana. The primary purposes of these meetings were to present a synopsis of the Draft AOP, describe and explain the draft Master Manual spring pulse technical criteria, and to allow those in attendance to make comments in person to Corps of Engineers' staff. Attendees

included representatives from the Tribes, Missouri River basin states, public and industry interest groups and private citizens. In addition, Government-to-Government consultation / meetings between the basin Tribes and the Corps of Engineers was conducted on the Draft 2005-2006 AOP and draft Master Manual spring pulse technical criteria in on January 11, 12, 2006 in Rapid City, South Dakota and on January 26 2006 in Pierre, South Dakota. Copies of the comment letters received on the Draft AOP and the notes from the Tribal and public meetings are available upon request, as outlined below.

In addition to the AOP, two separate documents are also available entitled: "System Description and Operation" and "Summary of Actual Calendar Year 2005 Operations." To receive copies of those documents you may contact the Water Management Division at 12565 West Center Road, Omaha, Nebraska 68144-3869, phone (402) 697-2676. The System Description and Operation document is now available at the "Reports and Publications" link on our web site at: **www.nwd.usace.army.mil/rcc** while the Summary of Actual Calendar Year 2005 Operations will be available in May 2006 at the same site.

We thank you for your interest in the regulation of the System. During this extended drought, the Corps is attempting to balance the needs of the entire basin. We believe our recently revised Master Manual and this AOP provide an appropriate balance of benefits to the various Congressionally authorized System project purposes. The basin should work together as a team – Federal, Tribal, State, local agencies, and stakeholders, to ensure the preservation of the Missouri River as a National treasure.

Gregg F. Martin
Brigadier General, US Army
Division Engineer

MISSOURI RIVER MAINSTEM RESERVOIR SYSTEM

Annual Operating Plan
2005 - 2006

TABLES

PLATES

ABBREVIATIONS

AOP	-	annual operating plan
ac.ft.	-	acre-feet
ACHP	-	Advisory Council on Historic Preservation
AF	-	acre-feet
B	-	Billion
BiOp	-	Biological Opinion
BOR	-	Bureau of Reclamation
cfs	-	cubic feet per second
COE	-	Corps of Engineers
CY	-	calendar year (January 1 to December 31)
elev	-	elevation
ESA	-	Endangered Species Act
ft	-	feet
FTT	-	Flow-to-Target
FY	-	fiscal year (October 1 to September 30)
GIS	-	Geographic Information System
GWh	-	gigawatt hour
ISP	-	initial starting point
KAF	-	1,000 acre-feet
Kcfs	-	1,000 cubic feet per second
kW	-	kilowatt
kWh	-	kilowatt hour
M	-	million
MAF	-	million acre-feet
MRBA	-	Missouri River Basin Association
MRNRC	-	Missouri River Natural Resources Committee
msl	-	mean sea level
MW	-	megawatt
MWh	-	megawatt hour
NEPA	-	National Environmental Policy Act
plover	-	piping plover
pp	-	powerplant
PA	-	Programmatic Agreement
P-S MBP	-	Pick-Sloan Missouri Basin Program
RCC	-	Reservoir Control Center
RM	-	river mile
RPA	-	Reasonable and Prudent Alternative
SHPO	-	State Historic Preservation Officers
SR	-	Steady Release
tern	-	interior least tern

T&E	-	Threatened and Endangered
THPO	-	Tribal Historic Preservation Officers
tw	-	tailwater
USFWS	-	United States Fish and Wildlife Service
USGS	-	United States Geological Survey
WY	-	water year
yr	-	year

DEFINITION OF TERMS

Acre-foot (AF, ac-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or 325,850 gallons.

Cubic foot per second (cfs) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to approximately 7.48 gallons per second or 448.8 gallons per minute. The volume of water represented by a flow of 1 cubic foot per second for 24 hours is equivalent to 86,400 cubic feet, approximately 1.983 acre-feet, or 646,272 gallons.

Discharge is the volume of water (or more broadly, volume of fluid plus suspended sediment) that passes a given point within a given period of time.

Drainage area of a stream at a specific location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the river above the specified point. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise noted.

Drainage basin is a part of the surface of the earth that is occupied by drainage system, which consists of a surface stream or body of impounded surface water together with all tributary surface streams and bodies of impounded water.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of hydrologic data are obtained.

Runoff in inches shows the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff" as streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

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MISSOURI RIVER MAINSTEM RESERVOIR SYSTEM

Annual Operating Plan
2005 – 2006

I. FOREWORD

This Annual Operating Plan (AOP) presents pertinent information and plans for regulating the Missouri River Mainstem Reservoir System (System) through December 2006 under widely varying water supply conditions. It provides a framework for the development of detailed monthly, weekly, and daily regulation schedules for the System's six individual dams during the coming year to serve the Congressionally authorized project purposes; to fulfill the Corps' responsibilities to Native American Tribes; and to comply with environmental laws, including the Endangered Species Act (ESA). Regulation is directed by the Reservoir Control Center in the Missouri River Basin Water Management Division, Northwestern Division, U. S. Army Corps of Engineers (Corps). A map of the Missouri River basin is shown on ***Plate 1*** and the summary of engineering data for the six individual Mainstem projects and System is shown on ***Plate 2***.

This plan may require adjustments such as when substantial departures from expected runoff occur; to meet emergencies including short-term intrasystem adjustments to protect human health and safety during periods of extended drought to maintain minimum river or reservoir levels to keep intakes operational, and adjustments in reservoir releases or reservoir levels to prevent loss of historic and cultural properties; or to meet the provisions of applicable laws, including the ESA. These adjustments would be made to the extent possible after evaluating impacts to all system uses, would generally be short term in nature and would continue only until the issue is resolved.

Prior to the 1998-1999 AOP, a System description and discussion of the typical System regulation, a historic summary of the previous year's regulation, and the plan for future System regulation was included in one document. Since the 1998-1999 AOP, this information has been published in separate reports available upon request. This document provides the plan for future regulation of the System. To receive a copy of either the updated version of the "System Description and Operation," dated Spring 2002, or the "Summary of Actual Calendar Year 2004 Operations," dated April 2005, contact the Missouri River Basin Water Management Division at 12565 West Center Road, Omaha, Nebraska 68144-3869, phone (402) 697-2676. Both reports are currently available at the "Reports and Publications" link on our web site at: **www.nwd-**

mr.usace.army.mil/rcc. The "Summary of Actual Calendar Year 2005 Regulation" will be available at the same site in the May of 2006.

II. PURPOSE AND SCOPE

Beginning in 1953, projected System reservoir regulation for the year ahead was developed annually as a basis for advance coordination with the various interested Federal, State, and local agencies and private citizens. Also beginning in 1953, a coordinating committee was organized to make recommendations on each upcoming year's System regulation. The Coordinating Committee on Missouri River Mainstem Reservoir Operations held meetings semiannually until 1981 and provided recommendations to the Corps. In 1982, the Committee was dissolved because it did not conform to the provisions of the Federal Advisory Committee Act. Since 1982, to continue providing a forum for public participation, one or more open public meetings are held semiannually in the spring and fall. The fall public meeting is conducted to take public input on a draft of the AOP, which typically is published in early October each year. The spring meetings are conducted to update the public on the current hydrologic conditions and projected System regulation for the remainder of the year as it relates to implementing the Final AOP.

Under the terms of Stipulation 18 of the March 2004 "Programmatic Agreement for the Operation and Management of the Missouri River Main Stem System for Compliance with the National Historic Preservation Act, as amended" (PA) the Corps has invited the affected Tribes and Tribal Historic Preservation Officers (THPO's), State Historic Preservation Officers (SHPO's), the Advisory Council on Historic Preservation (ACHP) and other parties to consult/meet on the draft AOP. The purpose of this consultation/meeting is to determine whether operational changes are likely to cause changes to the nature, location or severity of adverse effects to historic properties or to the types of historic properties affected and whether amendments to the Corps Cultural Resources Management Plans and Five-Year Plan are warranted in order to better address such effects to historic properties. During 2006 the Corps shall work with the affected Tribes to establish processes for consultation on AOP's under 36 CFR Part 800, the PA, and Executive Order 13175.

Last spring's public meetings were held at the following locations and dates: April 11, 2005 at Glasgow, Montana; April 12, 2005 at Bismarck, North Dakota and Pierre, South Dakota; April 13, 2005 at St. Louis and Kansas City, Missouri; and April 14, 2005 at Omaha, Nebraska. The attendees were given an update regarding the outlook for 2005 runoff and projected Mainstem reservoir regulation for the remainder of 2005. Eight 2005 fall public meetings on the Draft 2005-2006 AOP and draft spring pulse technical criteria for the Master Manual Revision were held: November 14 in Omaha and Nebraska City, Nebraska; November 15 in Kansas City, Missouri; November 16 in

St Louis and Jefferson City, Missouri; November 17 in Pierre, South Dakota and Bismarck, North Dakota; and November 18 in Glasgow, Montana. The meetings were all well attended, unfortunately the St. Louis meeting was conducted via telephone conference because of transportation problems.

The Corps invited affected Tribes to consult/meet on the 2005-2006 Draft AOP and the draft spring pulse technical criteria for the Master Manual revision. These meetings were held on January 11 and 12, 2006 in Rapid City, South Dakota and on January 26 in Pierre, South Dakota.

Numerous comments were received at the Tribal consultations/meetings and public meetings regarding the draft AOP and the spring rise component scheduled to be implemented for the first time in March of 2006. The 2005-2006 AOP includes the implementation of a spring pulse, as required by the U.S. Fish and Wildlife Service's (USFWS) 2003 Amended Biological Opinion on the Operation of the Missouri River Mainstem System, Operation and Maintenance of the Missouri River Bank Stabilization and Navigation Channel, and Operation of the Kansas River Reservoir System (2003 Amended BiOp). In the spring of 2006, public and Tribal meetings will be held to discuss the basin's hydrologic conditions and the effects those conditions are expected to have on the implementation of the 2005-2006 Final AOP.

III. MAINSTEM MASTER MANUAL AND ESA CONSULTATIONS

The Missouri River Master Water Control Manual (Master Manual) presents the water control plan and operational objectives for the integrated regulation of the System. First published in 1960 and subsequently revised during the 1970's, the Master Manual was revised again in March 2004 to include more stringent drought conservation measures. The 2003 Amended BiOp presented the USFWS' opinion that the regulation of the System would jeopardize the continued existence of the endangered pallid sturgeon. The USFWS provided a Reasonable and Prudent Alternative (RPA) to avoid jeopardy to the pallid sturgeon that included a provision for the Corps to develop a plan to implement a bimodal 'spring pulse' from Gavins Point Dam.

The 2003 Amended BiOp states:

> "The Corps shall develop and complete studies to establish a long-term flow management plan for flow releases from Gavins Point Dam that will be implemented under the Master Manual. This study will establish, as minimum criteria, flows that provide sufficient magnitude, duration, frequency, and rate of change. The spring pulse shall be a bimodal release from Gavins Pont Dam that provides for spawning cues and floodplain connectivity in the later spring and early summer…This flow plan shall be responsive to the hydrologic conditions in the basin based on system storage, winter precipitation based on probabilities from historic records."

The RPA also included 'adaptive management' as an approach to preclude jeopardy to pallid sturgeon. The 2003 Amended BiOp states:

> "The Corps shall adopt adaptive management as one tool to preclude jeopardy to pallid sturgeon. Adaptive management is a process that allows regular modification of management actions in response to new information and changing environmental conditions."

The 2003 Amended BiOp recommended the implementation of a long-term spring pulse plan by 2006. It presented an 'initial starting point' (ISP) spring pulse for the 2006 water year if an alternate plan that would meet the life-cycle needs of the pallid sturgeon could not be identified. The ISP spring pulse was to be implemented assuming near 'median hydroclimatic conditions' and allowed adjustments if conditions were not near 'median'. The 2003 Amended BiOp states:

> "If the Corps, with the review and approval of the Service, is unable to determine a suitable flow management plan that incorporates the life history needs of the pallid sturgeon over all relevant flow frequencies within 2 years the Corps shall operate in the following manner in the operating year that begins on March 1, 2006. This initial starting point shall be subject to annual review and modification based on data collected and evaluated under the adaptive management program. This assumes a median hydroclimatic condition in the basin based on system storage, past precipitation, and projections of future precipitation based on historical probabilities."

In an attempt to develop a spring pulse plan as required by the 2003 Amended BiOp, the Corps enlisted the assistance of the U.S. Institute for Environmental Conflict Resolution (Institute), a Federal agency with a great amount of experience in similar endeavors. The Institute then invited Tribal representatives and Tribal members, State representatives, and a wide range of stakeholders to participate in the collaborative spring pulse identification process. However, these meetings did not constitute

consultation under 36 CFR Part 800, the PA, or Executive Order 13175 with the 28 affected Tribes. A first step in that process was to select a contractor to facilitate the discussions and lead the participants to develop a recommendation for the Corps to use in the establishment of a spring pulse plan. The Institute invited a representative number of participants to help select the facilitators for the process. They unanimously recommended selection of CDR Associates to fill that role. CDR subsequently established a 'Plenary Group' that was comprised of more than 50 stakeholders, Tribal representatives and Tribal members and State representatives. The Plenary Group chose to establish four technical working groups to provide technical assistance in support of its efforts: Socio-Economic; Historical/Cultural/Burial Site; Hydrology/Water Quality; Pallid Sturgeon/Fish and Wildlife. The Plenary Group met four times over a 3-month period in June through August 2005. Meetings of the technical working groups were also held periodically during this period. Issues considered by the plenary and technical working groups included, but were not limited to the following: water intakes, and water quality; human health issues; the biological needs of the species; impacts of a spring pulse on historic and cultural resources, interior drainage, groundwater, flood risk, erosion; and the need for monitoring historic and cultural resources, biological response and socio-economic impacts of the spring pulse. Even though the Plenary Group was unable to reach consensus on a total spring pulse plan, it and the technical working groups provided valuable input through CDR and the Institute to the Corps related to many of the factors that could comprise a total spring pulse plan.

The water control plan (WCP) in the current Master Manual does not contain any technical criteria for a spring pulse. Therefore, implementation of the spring pulse elements in 2006 is contingent upon the successful supplementation of the Master Manual for the spring pulse WCP technical criteria. The proposed spring pulse technical criteria was published as a separate document accompanying the 2005-2006 Draft AOP. That spring pulse technical criteria formed the basis for the reservoir regulation computer simulation modeling data related to the spring pulses presented in this Final 2005-2006 AOP. Computer simulation data without the spring pulse components are also presented to allow comparison of effects with and without the pulses.

All comments mailed by, or received by email, or in person as of January 26, 2006 were fully considered prior to the decision on the Final 2005-2006 AOP. A revision to the Missouri River Master Manual addressing the spring pulse technical criteria is expected to be completed by the end of February.

IV. FUTURE WATER SUPPLY: AUGUST 2005 - DECEMBER 2006

Water supply (runoff) into the six System reservoirs is typically low and relatively stable during the August-to-February period. The August 1 calendar year runoff forecast is used as input to the Basic reservoir regulation simulation (Simulation) in the AOP studies for the period August 2005 to February 2006. The August 1 runoff forecast for 2005 used was 19.8 million acre-feet (MAF). The actual runoff for Calendar Year 2005 was 20.4 MAF, very close to the August estimate. Two other runoff scenarios based on the August 1 runoff forecast were developed for the same period. These are the 80 percent and 120 percent of the August 1 runoff forecast scenarios, which are input to the 80 percent and 120 percent of Basic Simulations for the August 2005 to February 2006 period.

Simulations for the March 1, 2006 to February 28, 2007 time period use five statistically derived inflow scenarios based on an analysis of historic water supply records from 1898 to 1997. This approach provides a good range of simulation for dry, average, and wet conditions, and eliminates the need to forecast future precipitation, which is very difficult.

The five statistically derived inflows are identified as the Upper Decile, Upper Quartile, Median, Lower Quartile and Lower Decile runoff conditions. Upper Decile runoff (34.5 MAF) has a 1 in 10 chance of being exceeded, Upper Quartile (30.6 MAF) has a 1 in 4 chance of being exceeded, and Median (24.6 MAF) has a 1 in 2 chance of being exceeded. Lower Quartile runoff (19.5 MAF) has a 1 in 4 chance of the occurrence of less runoff, and Lower Decile (15.5 MAF) has a 1 in 10 chance of the occurrence of less runoff. There is still a 20 percent chance that a runoff condition may occur that has not been simulated; i.e., a 10 percent chance runoff could be lower than Lower Decile, and a 10 percent chance runoff could be greater than Upper Decile.

The Upper Decile and Upper Quartile simulations extend from the end of the 120 percent of Basic simulation through February 2007. Likewise, the Median simulation extends from the end of the Basic simulation, and the Lower Quartile and Lower Decile simulations extend from the end of the 80 percent of Basic simulation through February 2007.

The estimated natural flow at Sioux City, the corresponding post-1949 water use effects, and the net flow available above Sioux City are shown in ***Table I,*** where water supply conditions are quantified for the period August 2005 through February 2007. The natural water supply for calendar year (CY) 2004 totaled 16.2 MAF.

TABLE I
NATURAL AND GROSS WATER SUPPLY AT SIOUX CITY
(Volumes in 1,000 Acre-Feet)

	Natural 1/	Post-1949 Depletions	Net 2/
	(Volumes in 1,000 Acre-Feet)		
August 2005 through February 2006 (Basic Runoff Scenario)			
Basic	5,800	500	6,300
120% Basic	7,000	800	7,800
80% Basic	4,700	500	5,200
Runoff Year March 2006 through February 2007 (Statistical Analysis of Past Records)			
Upper Decile	34,500	-2,400	32,100
Upper Quartile	30,600	-2,400	28,200
Median	24,600	-2,200	22,400
Lower Quartile	19,500	-2,300	17,200
Lower Decile	15,500	-2,200	13,300

1/ The word "Natural" is used to designate flows adjusted to the 1949 level of basin development, except that regulation and evaporation effects of the Fort Peck reservoir have also been eliminated during its period of regulation prior to 1949.

2/ The word "Net" represents the total streamflow after deduction of the post-1949 irrigation, upstream storage, and other use effects.

V. ANNUAL OPERATING PLAN FOR 2005-2006

A. General. The anticipated regulation described in this AOP is designed to meet the regulation objectives presented in the March 2004 Master Manual and is contingent upon the successful supplementation of the Master Manual for the Gavins Point Dam spring pulse elements. While some aspects of System and individual project regulation are clearly defined by technical criteria in the Master Manual, for example navigation service level and season length, others such as minimum releases for irrigation and water supply in the reaches between the reservoirs are based on regulation experience and will be adjusted as needed to respond to changing conditions. The paragraphs below summarize some of the specific technical criteria included in the Master Manual. Consideration has been given to all of the authorized project purposes, to historic and cultural resources and to the needs of threatened and endangered (T&E) species.

The plan relies on a wealth of regulation experience. Reservoir regulation experience available for preparation of the 2005-2006 AOP includes 13 years of regulation at Fort Peck (1940) by itself, plus 52 years of System experience as Fort Randall (1953), Garrison (1955), Gavins Point (1955), Oahe (1962), and Big Bend (1964) have been brought progressively into System regulation. This regulation experience includes lessons learned during the six consecutive years of drought from 1987 through 1992, the high runoff period that followed, and the current six-year drought that began in 2000. Runoff during the period 1993 to 1999 was greater than the Upper Quartile level in five of those seven years, including the record 49.0 MAF of runoff in 1997. In addition to the long period of actual System reservoir regulation experience, many background regulation studies for the completed System are available for reference.

As described in the Master Manual, flow support for navigation and other downstream purposes is defined based on service level. A "full-service" level of 35,000 cfs results in target flows of 31,000 cfs at Sioux City and Omaha, 37,000 cfs at Nebraska City and 41,000 cfs at Kansas City. Similarly, a "minimum service" level of 29,000 cfs results in target values of 6,000 cfs less than the full service levels. Selection of the appropriate service level is based on the actual volume of water-in-storage (storage) in the System on March 15 and July 1.

The relation of System storage to navigation service level is presented in ***Table II***. The volumes presented in ***Table II*** were derived from long-range model simulations that helped identify how the System should be regulated to meet authorized purposes during significant multi-year droughts. Straight-line interpolation defines intermediate service levels between full and minimum service. These service level determinations are for conservation and normal System regulation. During years when flood evacuation is required, the service level is calculated monthly or more frequently if required to facilitate a smooth transition in System release.

As shown in ***Table II***, the water control plan calls for suspension of navigation service if System storage is at or below 31 MAF on March 15 of any year. It should be noted that the occurrence of System storage at or below 31 MAF would likely coincide with a national drought emergency. If any of the reservoir regulation studies performed for the development of an AOP indicate that System storage will be at or below 31 MAF by the upcoming March 15, the Corps will notify the Secretary of the Army. Per the revised Master Manual, the Corps will obtain approval from the Secretary of the Army prior to implementation of back-to-back non-navigation years.

TABLE II
RELATION OF SYSTEM STORAGE TO NAVIGATION SERVICE LEVEL

Date	System Storage (MAF)	Navigation Service Level
March 15	54.5 or more	35,000 cfs (full-service)
March 15	49.0 to 31	29,000 cfs (minimum-service)
March 15	31.0 or less	No navigation service
July 1	57.0 or more	35,000 cfs (full-service)
July 1	50.5 or less	29,000 cfs (minimum-service)

The System storage check for navigation season length is made on July 1 of each year. Assuming the System storage is above 31 MAF on March 15, a navigation season will be supported. A full 8-month navigation season will be provided if System storage is 51.5 MAF or above on July 1, unless the navigation season is extended to evacuate flood control storage. However, if System storage falls below 51.5 MAF on July 1, a shortened navigation season will be provided to conserve water. The specific technical criteria for season length are shown in ***Table III***. Straight-line interpolation between 51.5 and 46.8 MAF of storage on July 1 provides the closure date for a season length between 8 and 7 months. If System storage on July 1 is between 46.8 and 41.0 MAF, a 7-month navigation season is provided. A straight-line interpolation is again used between 41.0 and 36.5 MAF, providing for a season length between 7 and 6 months. For System storage on July 1 below 36.5 MAF, a 6-month season is provided.

TABLE III
RELATION OF SYSTEM STORAGE TO NAVIGATION SEASON LENGTH

Date	System Storage (MAF)	Final Day of Navigation Support at Mouth of the Missouri River
July 1	51.5 or more	November 30 (8-month season)
July 1	46.8 through 41.0	October 31 (7-month season)
July 1	36.5 or less	September 30 (6-month season)

The System release required to meet minimum and full service target flows varies by month in response to downstream tributary flows. An analysis of the average monthly Gavins Point release needed to meet flow targets was completed in 1999. As part of that study, the relationship between annual runoff upstream of Sioux City and

the average Gavins Point release required for the navigation season was analyzed. The study showed that generally more water was needed downstream to meet flow targets during years with below normal upper basin runoff than during years with higher upper basin runoff. Therefore, regulation studies performed since 1999 use two levels of System release requirements; one for Median, Upper Quartile, and Upper Decile runoff scenarios, and another for Lower Quartile and Lower Decile scenarios. The updated release requirements for full and minimum service flow support are given in ***Table IV***. Releases required for minimum service flow support are 6,000 cfs less than full service support. A final report detailing the procedures used in this study is available on our web site.

An examination of the data presented in ***Table IV*** reflects that, early in the season, the target location is generally at Sioux City with adequate tributary flows meeting the other downstream flow targets. As the runoff season progresses, tributary flows normally recede during the summer, and the target location moves from Sioux City to Nebraska City and then to Kansas City. This requires higher flow support from the System as the season progresses through summer. Often the target moves upstream during the fall when higher downstream tributary flows return. This seasonal tributary flow pattern is reflected in the Gavins Point release data presented below.

The releases presented in ***Table IV*** are average monthly values during the period studied for various runoff conditions and do not reflect the range of daily releases that may be required during any given month to meet flow targets. Actual regulation, therefore, requires daily adjustments to fully serve the Congressionally authorized project purpose of navigation.

In general, releases from Gavins Point are adjusted as needed to meet target flow levels on the lower Missouri River. However, during the nesting season of the endangered interior least tern (tern) and the threatened piping plover (plover), care must be taken to avoid impacts to nesting areas. These two bird species are listed as threatened and endangered under the ESA and are protected under that Act. Several scenarios have been used in past years to regulate the System during the nesting season. Under the Steady-Release (SR) scenario, when the birds begin to initiate nesting activities in early to mid-May, the release from Gavins Point is set to the level expected to be required to meet downstream flow targets through August and maintained at that level until the end of the nesting season. This regulation results in releases that exceed the amount necessary to meet downstream flow targets during the early portion of the nesting season, and may result in targets being missed if basin conditions are drier than expected during the summer.

TABLE IV
GAVINS POINT RELEASES NEEDED TO MEET TARGET FLOWS
FOR INDICATED SERVICE LEVEL
1950 to 1996 Data
(Discharges in 1,000 cfs)

Median, Upper Quartile, Upper Decile Runoff

	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
Full Service	26.7	28.0	27.9	31.6	33.2	32.6	32.0	31.1
Minimum Service	20.7	22.0	21.9	25.6	27.2	26.6	26.0	25.1

Lower Quartile, Lower Decile Runoff

	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
Full Service	29.8	31.3	31.2	34.3	34.0	33.5	33.1	31.2
Minimum Service	23.8	25.3	25.2	28.3	28.0	27.5	27.1	25.2

Gavins Point releases, under the Flow-to-Target (FTT) scenario, are adjusted as needed throughout the nesting season to meet downstream flow targets and would typically result in increasing releases as the nesting season progresses. This is due to reduced tributary inflows downstream as the summer heat builds, evaporation increases, and precipitation wanes. Increasing releases as the nesting season progresses can inundate nests and chicks on low-lying emergent sandbar habitat. Compared to the SR scenario, this scenario conserves more water in the System, which keeps the pool levels at the upper three System projects at relatively higher levels. However, this scenario also increases the risk of inundating nests. The FTT scenario also ensures that targets on the lower river are met throughout the nesting season.

A third scenario for Gavins Point releases combines features of the other two options. This scenario, called the Steady Release – Flow-to-Target (SR-FTT) scenario, sets Gavins Point releases at an initial steady rate, and then allows releases to be adjusted upward or downward during the nesting season to meet downstream flow targets, if necessary. Depending on where the initial steady release is set, this regulation makes a larger amount of habitat available early in the nesting season and saves additional water in the upper three reservoirs when compared to the SR scenario. The SR-FTT scenario also reduces the potential for flooding nests when compared to the FTT scenario. The SR-FTT regulation also provides certainty for downstream users that releases could be increased if needed to meet Missouri River flow targets.

The 2003 Amended BiOp recommended the implementation of a Gavins Point spring pulse plan by 2006. The 'initial starting point' presented in the 2003 Amended BiOp called for a bimodal spring pulse in March and May. The March rise was assumed to follow a winter release of 16,000 cfs or less and was to be at least 31,000 cfs

for no less than 7 days. Each of the ascending and descending limbs of the March spring pulse was to be 7 days in duration. The May rise was to be no less than 16,000 cfs above existing releases for at least 14 days. The ascending limb of the pulse was to be no less than 7 days and no more than 10 days. The descending limb was to be no less than 7 days but could extend longer as required by other project purposes.

The spring pulse plan presented in this AOP was developed based on the ISP presented in the 2003 Amended BiOp, input from the spring pulse Plenary Group and its technical working groups, and Tribal consultations/meetings and public comments received on the draft AOP. The Missouri River Basin is currently in the sixth year of an extended drought, and System storage is near-record low levels. The spring pulse elements of this AOP comply with the provisions of the ISP presented in the 2003 Amended BiOp while being responsive to the hydroclimatic conditions in the basin. The potential volume of System storage used for the 2006 spring pulses included in this AOP is much less than the ISP presented in the 2003 Amended BiOp, primarily through a reduction in the magnitude and duration of peak releases. The 2006 spring pulses would use approximately 160,000 acre-feet versus over 800,000 acre-feet with the BiOp ISP. The 2006 spring pulses would result in a 0.1 foot to 0.3 foot pool elevation decrease in each of the upper three reservoirs, or a 2 foot pool elevation decrease in Fort Randall reservoir. This reduces the adverse impacts associated with low reservoir storage levels such as water intakes located in reservoir pools and dewatering historic and cultural resource sites over the plan set forth in the 2003 Amended BiOp. The shorter duration and reduced magnitude of the spring pulses also reduce the risk of interior drainage problems, groundwater level increases and direct flooding below Gavins Point Dam. For the 2005-2006 AOP, a 36.5 MAF preclude has been selected. This will provide approximately the same likelihood of implementing a spring rise in 2006 as provided for under the ISP set forth in the 2003 Amended BiOp.

Primary consideration is being given to withdrawing the water needed for the May spring pulse from Fort Randall reservoir rather than one or more of the upper three reservoirs. This would avoid increasing the impacts due to the May pulse at Fort Peck, Garrison and Oahe reservoirs, which are already drawn down substantially due to the ongoing drought. If using Fort Randall in this manner is not feasible, the Corps would then give consideration to distributing the upstream storage reductions due to the May pulse equally among the upper three reservoirs. Prior to implementing the May pulse, the Corps will coordinate with the affected Tribes and States to evaluate the options and determine the best course of action to minimize adverse impacts, including those associated with water quality due to low reservoir levels, water intakes, historic and cultural sites and reservoir fisheries.

Table V summarizes the spring pulse technical criteria for the 2005-2006 AOP.

TABLE V
TECHNICAL CRITERIA FOR THE 2006 SPRING PULSES
FROM GAVINS POINT DAM

Criteria Applicable to Both the March and May Spring Pulses	
Flood Control Constraints	No change from current levels
Criteria Applicable to the March Spring Pulse	
Drought Preclude	36.5 MAF or below measured on March 1.
Drought Proration of Pulse Magnitude*	None, 5 kcfs added to navigation releases, but no greater than 35 kcfs.
Initiation of Pulse	Extend the stepped System release increases that precede the beginning of the navigation season.
Rate of Rise before Peak	Approximately 5 kcfs for 1 day.
Duration of Peak	Two days.
Rate of Fall after Peak	Drop over 5 days to navigation target release.
Criteria Applicable to Time Period Between the Bimodal Pulses	
Release	Existing Master Manual Criteria
Criteria Applicable to the May Spring Pulse	
Drought Preclude	36.5 MAF or below measured on May 1.
Proration of Pulse Magnitude Based On System Storage*	Prorated from 16 kcfs based on a May 1 System Storage check; 100% at 54.5 MAF; straight line interpolation to 75% at 40.0 MAF.
Proration of Pulse Magnitude Based On Projected Runoff*	After the proration of the spring pulse magnitude for System Storage, the resultant magnitude would be further adjusted either up or down based on the May CY runoff forecast; 100% for median; straight-line interpolation to 125% at upper quartile runoff; 125% for runoff above upper quartile; straight-line

	interpolation to 75% at lower quartile runoff; 75% for runoff below lower quartile.
Initiation of Pulse	Between May 1 to May 19, depending on Missouri River water temperature immediately below Gavins Point Dam. If possible, pulse will be initiated after the second daily occurrence of a 16 degree Celsius water temperature; however, the decision will be informed by the potential for 'take' of Threatened and Endangered bird species.
Rate of Rise before Peak	Approximately 6 kcfs per day.
Duration of Peak	Two days.
Rate of Fall after Peak	Approximately 30% drop over 2 days followed by a proportional reduction in releases back to the existing Master Manual criteria over an 8-day period.

* Spring pulse magnitudes will be determined by taking the difference between pre-pulse Gavins Point releases and the peak pulse Missouri River flows measured just downstream of the mouth of the James River.

B. <u>2005-2006 AOP Simulations</u>. AOP simulations for the five runoff scenarios without a spring pulse are shown in the final section of this AOP as studies 4 through 8. Simulations which include spring pulses are shown for the Upper Decile, Upper Quartile, and Median runoff conditions as studies 9 through 11. The System storage checks are below the 36.5 MAF spring pulse drought preclude for 2006 for the two lowest runoff scenarios, so spring pulses are not shown for those runoff levels. Results of the simulations are shown in ***Plates 3 and 4*** for the System storage and the Fort Peck, Garrison and Oahe pool elevations. The March 15 and July 1 System storage checks from ***Tables II*** and ***III*** were used to determine the level of downstream flow support for navigation and other purposes as well as the navigation season length. For modeling purposes in this AOP, the SR-FTT regulation scenario with an initial steady release of 25,000 cfs is shown during the 2006 nesting season for Median runoff or above. The May minimum service release of 22,000 cfs was used for two-thirds of the days in May and 25,000 cfs was used for the other third to reflect every third day peaking cycle from Gavins Point. The June release was modeled as a steady 25,000 cfs due to the presence of chicks along the river at that time, and the ***Table IV*** releases were used for July and August to indicate flowing to target. For the two lower runoff conditions, Lower Quartile and Lower Decile, ***Table IV*** values were used for the period May though August because the May and June table values for those runoff conditions are slightly

greater than the planned initial steady release of 25,000 cfs. However, if actual release requirements are less than the ***Table IV*** values, releases will follow a pattern similar to that described earlier (cycling to 25,000 cfs every third day in May and a 25,000 cfs steady release in June). Although these modeled Gavins Point releases represent our best estimate of required releases during 2006, actual releases will be based on hydrologic conditions and the availability of habitat at that time. Once the majority of the birds have nested on the newly constructed, high elevation habitat, releases will be made to meet downstream targets. The purpose of this regulation is to continue to meet the project purposes while minimizing the loss of nesting T&E species and conserving water in the upper three reservoirs. Water conservation benefits all uses of the System (except flood control) through higher reservoir levels which result in increased service to authorized purposes. More normal reservoir levels also reduce potential impacts to water intakes, reduce exposure of some historic and cultural resources and provide better access to recreation sites.

Table IV values were used in all the AOP studies for navigation support during the spring and fall months. Winter 2005-2006 and winter 2006-2007 Gavins Point releases of 12,500 cfs are shown in the simulations. This is lower than actual winter releases required for downstream powerplants and water supply intakes prior to 2004, but completed and on-going modification of intakes will permit lower winter releases as a conservation measure when System storage is low. These modifications, along with favorable weather conditions last winter, allowed releases to average 12,400 cfs in December 2004 and 9,900 cfs in February 2005. January 2005 releases were slightly higher, at 13,700 cfs due to the formation of river ice. Non-winter, non-navigation Gavins Point releases were modeled at 9,000 cfs as a further water conservation measure as described in the 2004 Mainstem Master Manual, provided downstream tributary flows are adequate to serve water supply requirements. Adequate tributary flows in the Missouri River reach below the System allowed this goal to be achieved in the fall of 2004 and spring of 2005.

The Gavins Point releases shown in this and previous AOPs are estimates based on historic averages and experience. Adjustments are made as necessary in real-time based on hydrologic conditions to meet the Missouri River target flows presented in the Master Manual.

Application of the July 1 System storage check shown on ***Table III*** indicates that without the spring pulses the navigation season will be shortened 14 days for Upper Decile, 27 days for Upper Quartile, 31 days for Median, 44 days for Lower Quartile, and 58 days for Lower Decile runoff. With the spring pulses, the navigation season is shortened 15 days for Upper Decile, 28 days for Upper Quartile, and 31 days for Median. System storage is below the spring pulse drought preclude for the two lowest runoff scenarios. Minimum service navigation flows are provided for all runoff

conditions due to low System storage. None of the simulations reach the desired 57.0 MAF System storage level on March 1, 2007.

Intrasystem releases are adjusted to best serve the multiple purposes of the projects with special emphasis placed on regulation for non-listed fisheries starting in early April and for T&E bird species beginning in early May and continuing through August. During the late 1980 to early 1990 drought years, a two-day-down, one-day-up peaking cycle from Gavins Point was utilized during the nesting season. This regulation provided for lower flows for two out of three days to conserve water in the System while ensuring that T&E bird species did not nest on low-lying habitat. This cycling was successfully utilized both in May 2004 and May 2005 during nest initiation as a water conservation measure. Depending on hydrologic conditions, a peaking cycle may be used to conserve water at the beginning of the nesting season in 2006. It may also be necessary to cycle releases for flood control regulation during the T&E species' nesting season.

The Median, Upper Quartile, and Upper Decile simulations include releases that provide a steady to rising pool level in the three large upper reservoirs during the spring forage fish spawn period. The Lower Quartile and Lower Decile simulations are based on favoring a steady to rising Garrison reservoir during the spring forage fish spawn as part of the overall plan to rotate emphasis among the upper three reservoirs during low runoff years. This regulation is discussed in more detail later in this report.

Actual System regulation from January 1 through July 31, 2005 and the regulating plans for each project for CY 2006 using the five runoff scenarios described on Page 5 are presented on ***Plates 5 through 10***, inclusive. Data is included with and without the spring pulse for the Median, Upper Quartile and Upper Decile runoff scenarios. Big Bend regulation is omitted since storage at that project is relatively constant and average monthly releases are essentially the same as those at Oahe. These plates also show, on a condensed scale, actual regulation since 1953.

Plate 11 illustrates for Fort Peck, Garrison, Oahe, and Gavins Point the actual releases (Regulated Flow) as well as the Missouri River flows that would have resulted if the reservoirs were not in place (Unregulated Flow) during the period January 2004 through July 2005. ***Plate 12*** presents past and simulated gross average monthly power generation and gross peaking capability for the System.

C. <u>Regulation for the Balance of the 2005 Navigation Season and Fall of 2005.</u> The regulation of the System for the period of August though November 2005 is presented in the following paragraphs.

<u>Fort Peck Dam</u>. Releases averaged near 7,000 cfs during August and the first half of September. In mid-September they were gradually reduced to 4,000 cfs. The releases

were held near that level until late November. The Fort Peck pool rose slightly through the period to end at 2202.9 on the last day of November. The record low pool is 2198.3 feet msl set in January 2005. The record low elevation during the previous drought was 2208.7 feet msl set in April 1991.

Garrison Dam. Releases continued at 15,500 cfs until mid-September when irrigation ceased, then were reduced to 12,500 cfs and generally were held at that rate until late November as a water conservation measure. The Garrison pool level declined to 1813.5 feet msl by the end of November. The record low pool is 1805.8 feet msl set in May 2005. The record low during the previous drought was 1815.0 feet msl in May 1991.

Oahe Dam. Releases averaged 23,500 cfs in August, and were reduced in September to initiate an early fall drawdown of the Fort Randall pool as the navigation season closed early in 2005. Low releases continued in October and November to complete the annual fall draw of Fort Randall. Releases were increased in late November for winter power production. The Oahe pool ended the period at elevation 1575.6 feet msl. The record low Oahe pool is 1572.0 feet msl set in August 2004. The record low during the previous drought was 1580.7 feet msl set in November 1989.

Big Bend Dam. Releases will parallel those from Oahe. Big Bend will generally fluctuate between 1420.0 feet msl and 1421.0 feet msl for weekly cycling during high power load periods.

Fort Randall Dam. Releases averaged 23,100 cfs in August and were scheduled in September to back up the releases from Gavins Point Dam. When the navigation season ended in early October, releases were gradually lowered to as low as 7,000 cfs in October and ranged from 7,000 to 9000 cfs through late November. The majority of the Fort Randall fall pool draw down occurred in September with the remaining drawdown accomplished gradually from October through early December. The pool reached a minimum level of 1437.8 on December 7, 2005.

Gavins Point Dam. Releases from Gavins Point Dam averaged 23,400 cfs in August. Releases were scheduled to support downstream minimum service flows until the first week of October when they were reduced by 3,000 cfs per day until they reached 10,000 cfs. The 10,000 cfs release was maintained for 5 days to allow sufficient travel time for the release changes to reach the critical downstream locations and then the release was stepped down to the fall non-navigation season rate of 9,000 cfs on October 15, 2005. Intakes were closely monitored during this period to ensure their operability. Releases were increased in November due to unusually low tributary inflows. The 9,000 cfs fall non-navigation season release rate is based on sufficient incremental downstream tributary flows. Downstream tributary flow was adequate in 2004 to allow a reduction to the 9,000 cfs level. In the fall of 2005 from mid-October

through the first week in November the 9,000 cfs rate was also adequate to meet downstream water supply requirements. We believe that this 9,000 cfs minimum spring-fall release represents a reasonable long-term goal for water intake owners to strive for as they make improvements to their facilities. The navigation season was shortened 48 days in 2005 in accordance with the July 1 System storage check given in the Master Manual. The Gavins Point pool level was raised 1.5 feet to elevation 1207.5 feet msl in August when it was determined that T&E species were not nesting along the reservoir. The pool level will remain near that elevation during the fall and winter months.

D. Regulation Plan for Winter 2005-2006. The September 1 System storage check is used to determine the amount of the winter System release. During the winter of 2005-2006, we will strive to average a 12,000 cfs System release. If mild weather conditions prevail, System releases may be set lower than 12,000 cfs, but only if downstream water supply intakes can remain operable at those levels. Conversely, 12,000 cfs may be less than is required for downstream water supply intakes without sufficient incremental tributary inflow below the System, and therefore, releases may need to be set at levels higher than 12,000 cfs at times to ensure downstream water supply intakes are operable. However, we believe that this minimum winter flow represents a reasonable long-term goal for water intake owners to strive for as they make improvements to their facilities. It may be necessary at times to increase Gavins Point releases to provide adequate downstream flows if ice jams or blockages form which temporarily restrict flows, therefore the model results indicate an average winter System release of 12,500 cfs to allow for these increases. Based on past experiences, these events are expected to occur infrequently and be of short duration. It is anticipated that this year's winter release will be adequate to serve all downstream water intakes except for very short periods during significant river ice formation or ice jamming.

Fort Peck Dam. Releases are expected to average between 6,000 and 8,000 cfs, well below the 1967-2004 average, to serve winter power loads and balance System storage from December through January,. The Basic simulation shows that the Fort Peck pool level remains near elevation 2201 feet msl during the winter period, ending February 33 feet below the base of the annual flood control storage zone. Carryover multiple purpose storage in the three large upper reservoirs will be near a balanced condition on March 1, 2006. The pool level is expected to rise during March to near elevation 2202 feet msl, ending the month 29 feet below normal.

Garrison Dam. Releases will be adjusted to serve winter power loads and balance System storage. Releases were scheduled at 15,000 cfs at the time of freeze-in and then were increased back to the 18,000 to 18,500 cfs range as conditions improved. Releases may have to be reduced for a short period during any re-freeze-in in the Bismarck area since warmer temperatures have melted a significant portion of the downstream ice

cover as of mid-January. This reduction in releases is scheduled to prevent exceeding a targeted 13-foot stage at the Bismarck gage. Flood stage is 16 feet. Garrison releases are expected to average 18,000 to 18,500 cfs during the remaining winter period, 3,000 to 7,000 cfs less than normal. The Garrison pool level is expected to fall from near elevation 1815 feet msl to elevation 1810 feet msl by March 1, 27.5 feet below the base of the annual flood control storage zone. The Median simulation indicates the pool level will rise to elevation 1812 feet msl by March 31, which would be 22.5 feet below normal.

Oahe Dam. Releases for the winter season will provide backup for the Fort Randall and Gavins Point releases plus fill the recapture space available in the Fort Randall reservoir consistent with anticipated winter power loads. Monthly average releases may vary substantially with fluctuations in power loads occasioned by weather conditions but, in general, are expected to average 15,000 cfs. Daily releases will vary widely to best meet power loads. Peak hourly releases, as well as daily energy generation, will be constrained to prevent urban flooding in the Pierre and Fort Pierre areas if severe ice problems develop downstream of Oahe Dam. This potential reduction has been coordinated with the Western Area Power Administration.

The Oahe pool level is expected to gradually rise from elevation 1576 feet msl at the end of November to elevation 1579 feet msl by March 1, 28.5 feet below the base of the annual flood control storage zone. The pool is expected to rise to elevation 1582 feet msl by the end of March, 23 feet below normal.

Big Bend Dam. The Big Bend pool level will be maintained in the normal 1420.0 to 1421.0 feet msl range during the winter.

Fort Randall Dam. Releases will average near 11,000 cfs. The Fort Randall pool level is expected to rise from a low elevation of 1337.5 feet msl to near elevation 1350.0 feet msl, the seasonal base of flood control, by March 1. However, if the plains snowpack flood potential downstream of Oahe Dam remains quite low, measures will be taken to raise the Fort Randall pool level to near elevation 1353.0 feet msl by March 1. It is likely that a pool level above elevation 1353.0 feet msl, to as high as 1355.2 feet msl, will be reached by the end of the winter period on March 31, if runoff conditions permit. The Fort Randall pool level above the White River delta near Chamberlain, South Dakota will likely remain at a higher elevation than the pool level below the delta from early October through December, due to the damming effect of this delta area.

Gavins Point Dam. Releases are discussed in the first paragraph of this section. The Gavins Point pool level will be near elevation 1207.5 feet msl until late February when it will be lowered to elevation 1206.0 feet msl to create additional capacity to store spring runoff, primarily from the Niobrara River along the Fort Randall to Gavins Point reach.

System storage for all five runoff conditions will be substantially below the base of the annual flood control zone by March 1, 2006, the beginning of next year's runoff season.

E. Regulation During the 2006 Navigation Season. The Upper Decile, Upper Quartile, Median, Lower Quartile, and Lower Decile runoff scenarios modeled for this year's AOP follow the specific technical criteria presented in the March 2004 Master Manual for downstream flow support. The normal 8-month navigation season is shortened as a water conservation measure for all runoff scenarios as shown in ***Table VI***. Releases from Garrison and Fort Randall will follow repetitive daily patterns from early May, at the beginning of the T&E species' nesting season, to the end of the nesting in late August. As previously stated, the model runs included in this AOP have a Gavins Point release peaking cycle of two days down and one day up during May to keep birds from nesting at low elevations, then increasing on June 1 to the release required to meet downstream minimum service support to navigation flows through August. The planned regulation for the 2006 nesting season will be SR-FTT. The initial steady release, which is estimated to be 25,000 cfs, will be based on hydrologic conditions and the availability of habitat at that time. Once the majority of the birds have nested, releases will be adjusted to meet downstream targets. The purpose of this regulation is to continue to meet the project purposes while minimizing the loss of nesting T&E species and conserving water in the upper three reservoirs.

TABLE VI
NAVIGATION SERVICE SUPPORT
FOR THE 2006 SEASON

	Runoff Scenario (MAF)	System Storage March 15 (MAF)	System Storage July 1 (MAF)	Flow Level Above or Below Full Service (cfs) Spring	Flow Level Above or Below Full Service (cfs) Summer/Fall	Season Shortening (Days)
Without Spring Pulse						
U.D.	34.5	39.7	49.4	-6,000	-6,000	14
U.Q.	30.6	39.4	47.4	-6,000	-6,000	27
Med	24.6	37.5	43.2	-6,000	-6,000	31
L.Q.	19.5	35.8	39.1	-6,000	-6,000	44
L.D.	15.5	35.7	36.9	-6,000	-6,000	58
With Spring Pulse						
U.D.	34.5	39.7	49.2	-6,000	-6,000	15
U.Q.	30.6	39.4	47.2	-6,000	-6,000	28
Med	24.6	37.5	43.0	-6,000	-6,000	31

The reservoir regulation simulations presented in this AOP for the Upper Decile, Upper Quartile, and Median runoff scenarios show that steady to rising pool levels would occur during the spring fish spawn period for the upper three System reservoirs. The studies show that inflows are sufficient to maintain steady to rising pools at Fort Peck and Garrison in April and May for Lower Quartile and Lower Decile runoff scenarios, however Oahe would fall during this period. The ability to provide steady to rising pool levels in the upper three reservoirs in low runoff years is very dependent on the volume, timing, and distribution of runoff. If runoff is not sufficient to keep all the pool levels rising during the fish spawn in 2006, the Corps will, to the extent reasonably possible, set releases to result in a steady to rising pool at Garrison during April and May. This will be accomplished through a combination of increased releases from Fort Peck and reduced releases from Garrison, but no less than the minimum required to meet downstream water supply needs. Adjustments to Garrison's releases, however, may be necessary when the terns and plovers begin nesting in May. If the drought continues, emphasis during the fish spawn will be rotated between Garrison and Oahe. In years when Oahe is favored, Fort Peck releases will be set at a level that would maintain the rising pool, but no less than the minimum required to supply downstream irrigation. Management of the reservoirs during the fish spawn will continue with consideration of other Congressionally authorized project purposes, be opportunistic with regard to runoff potential, and will continue to evolve as additional information becomes available.

All five runoff scenarios studied for this year's AOP provide gradually increasing Gavins Point releases to provide Missouri River navigation season flow support at the mouth of the Missouri near St. Louis on April 1, 2006, the normal navigation season opening date. The corresponding dates at upstream locations are Sioux City, March 23; Omaha, March 25; Nebraska City, March 26; and Kansas City, March 28. However, if there is no commercial navigation scheduled to use the upper reaches of the navigation channel, we will consider eliminating navigation flow support for targets in those reaches to conserve water in the System, as was done in 2004 and 2005. The studies illustrated on ***Plates 5 through 10*** and summarized in ***Table VI*** are based on providing minimum service flows (except May through July when flows may exceed minimum service) and a shortened navigation season for all runoff scenarios. For the no spring pulse scenario, navigation season shortening is shown as 14 days from the normal 8-month season for Upper Decile, 27 days for Upper Quartile, 31 days for Median, 44 days for Lower Quartile, and 58 days for Lower Decile. One additional day of shortening is required for Upper Decile and Upper Quartile runoff with the spring pulse regulation included. The navigation season shortening is the same with or without the spring rise for Median runoff

Navigation flow support for the 2006 season will be determined by actual System storage on March 15 and July 1. Although all runoff scenarios modeled indicate minimum service flow support throughout the navigation season, if the July 1 System

storage check indicates an increase in service level, any increase may be delayed until the end of the T&E bird species' nesting season, depending on the potential for 'take' of those species. Gavins Point releases may be quite variable during the 2006 navigation season but are expected to range from 22,000 to 28,000 cfs. Release reductions necessary to minimize downstream flooding are not reflected in these monthly averages but will be instituted as conditions warrant. Simulated storages and releases for the System and individual reservoirs within the System are shown on ***Plates 5 through 10.*** Ample storage space exists in the System to control flood inflows under all scenarios simulated for this AOP.

Two modified reservoir regulation plans shown in previous AOPs, the Fort Peck "mini-test" and unbalancing the upper three reservoirs, will not be implemented under most runoff scenarios in 2006 due to low System storage. Intrasystem unbalancing is shown on March 1, 2007 in the Upper Decile runoff scenario. When System storage recovers sufficiently, the Corps anticipates that both these plans will be implemented.

The first of these two modified plans is a test of flow modifications for the endangered pallid sturgeon. When Fort Peck has adequate water above the spillway crest by mid to late-May of any year, a flow modification "mini-test" will be conducted in early June to monitor effects of higher spring releases and warmer water released from the spillway. The purposes of the "mini-test" are to allow for an evaluation of the integrity of the spillway structure, to test data collection methodology, and to gather information on river water temperatures with various combinations of flow from the spillway and powerhouse. Streambank erosion and fishing impacts will also be monitored. Stop protocol for the "mini-test" is identified in the Fort Peck Flow Modification Mini-Test Environmental Assessment, dated March 2004. Before either test is run, the Corps will fully coordinate with the Assiniboine and Sioux Tribes of the Fort Peck Reservation, the State of Montana, and potentially affected stakeholders.

During the Fort Peck "mini-test," which will last about four weeks, flows will vary from 8,000 to 15,000 cfs as various combinations of spillway and powerplant releases are monitored. The maximum spillway release of 11,000 cfs will combine with a minimum powerplant release of 4,000 cfs for six days. This test will be timed to avoid lowering the pool level during the forage fish spawn. The "mini-test" will not be conducted if sufficient flows will not pass over the spillway crest (elevation 2225 feet msl). A minimum pool level of about 2229 feet msl is needed during the test to avoid unstable flows over the spillway. Results of the AOP simulations show that this elevation will not be achieved in 2006 for any of the five runoff scenarios. A more extensive test with a combined 23,000 cfs release from Fort Peck is scheduled to be conducted beginning in early June in the year following the "mini-test" to allow further tests of the integrity of the spillway and to determine if warm water releases will benefit the native river fishery. Peak outflows during the full test would be maintained for two weeks within the four-week test period.

The second modified regulation plan involves unbalancing the three large upper reservoirs as shown on ***Table VII*** to benefit reservoir fishery and the three protected species. Reservoir unbalancing is computed based on the percentage of the carryover multiple purpose pool that remains in Fort Peck, Garrison and Oahe Reservoirs. The unbalancing would alternate at each project; high one year, float (normal regulation) the next year, and low the third year, as shown on ***Table VII***. ***Table VIII*** shows the pool levels proposed by the MRNRC below which unbalancing would not be implemented. ***Table VIII*** indicates that the upper three projects should be balanced on March 1, 2006; however, with Upper Decile runoff in 2006, reservoir unbalancing is indicated for March 1, 2007. Therefore the Upper Decile study shows an unbalanced System on March 1, 2007. Due to the need to conduct the Fort Peck mini-test as soon as possible, the Upper Decile study shows unbalancing approximately 4 feet in favor of Fort Peck by March 2007. As indicated in ***Table VII***, when Fort Peck is high, Garrison is low (approximately 3 feet) and Oahe is at the balanced elevation.

TABLE VII
RESERVOIR UNBALANCING SCHEDULE

	Fort Peck		**Garrison**		**Oahe**	
Year	***March 1***	***Rest of Year***	***March 1***	***Rest of Year***	***March 1***	***Rest of Year***
1	High	Float	Low	Hold Peak	Raise & hold during spawn	Float
2	Raise & hold during spawn	Float	High	Float	Low	Hold peak
3	Low	Hold peak	Raise & hold during spawn	Float	High	Float

Notes: **Float year:** Normal regulation, then unbalance 1 foot during low pool years or 3 feet when System storage is near 57.0 MAF on March 1.

Low year: Begin low, then hold peak the remainder of the year.

High year: Begin high, raise and hold pool during spawn, then float.

TABLE VIII
MRNRC RECOMMENDED
RESERVOIR ELEVATION GUIDELINES
FOR UNBALANCING

	Fort Peck	**Garrison**	**Oahe**
Implement unbalancing if March 1 pool is above this level.	2234 feet msl	1837.5 feet msl	1607.5 feet msl
Implement unbalancing if March 1 pool level is in this range **and** the pool is expected to raise more than 3 feet after March 1.	2227-2234 feet msl	1827-1837.5 feet msl	1600-1607.5 feet msl
Scheduling Criteria	Avoid pool level decline during spawn period which ranges from April 15 – May 30	Schedule after spawn period of April 20 – May 20	Schedule after spawn period of April 8 – May 15

F. Regulation Activities for T&E Species and Fish Propagation Enhancement. As discussed in the previous section, the 2005-2006 AOP includes no provisions for unbalancing the Fort Peck, Garrison, and Oahe reservoirs on March 1, 2006 for any of the runoff scenarios. The criteria for unbalancing are based on recommendations provided by the MRNRC and the USFWS. However the Upper Decile runoff scenario does show unbalancing in favor of Fort Peck on March 1, 2007. Under all simulations except Upper Decile, System storage will be below the minimum levels under which unbalancing is recommended by either the MRNRC or the USFWS.

Fort Peck Dam. Unlike previous years, the repetitive daily pattern of releases from Fort Peck Dam was not implemented during the 2005 tern and plover nesting season. This adaptive management decision was made based on data collected during previous nesting seasons. In recent years, birds in this reach have nested on available high habitat, and thus were not expected to be impacted by the potential range of releases from Fort Peck during the summer of 2005. Releases during the 2006 nesting season will not be restricted by the repetitive daily pattern unless habitat conditions or nesting patterns change. This regulation should result in habitat conditions for nesting terns and plovers, similar to what was available in 2005.

If flood flows enter the Missouri River below the project during the nesting season, hourly releases will be lowered to no less than 3,000 cfs in order to keep traditional riverine fish rearing areas continuously inundated, while helping to lower river stages

at downstream nesting sites. April releases should be adequate for trout spawning below the project. A rising pool during the fish spawn in May and June will be dependent upon the daily inflow pattern to the reservoir but appears possible with all runoff simulations. However, because Garrison will be favored during the fish spawn in 2006, it may be necessary to adjust Fort Peck releases to ensure a steady to rising pool at Garrison in the event of very low runoff. The T&E flow modification "mini-test" will not be run under any runoff scenario. The Fort Peck pool level must be at elevation 2229 feet msl to allow releases required for the "mini-test" through the spillway.

Garrison Dam. Daily average releases from Garrison will be much less than full powerplant capacity during the tern and plover nesting season under all runoff scenarios. Monthly average releases will decline 500 to 1,000 cfs during the summer nesting season. Hourly peaking will be restricted during the nesting season to limit peak stages below the project for nesting birds.

The Garrison pool level may again approach a level that jeopardizes the volume of cold-water habitat in 2006. If runoff is not sufficient to keep all the pool levels rising during the fish spawn in 2006, the Corps will, to the extent reasonably possible, set releases to result in a steady to rising pool at Garrison during April and May. This will be accomplished through a combination of increased releases from Fort Peck and reduced releases from Garrison, but no less than the minimum required to meet downstream water supply needs. Adjustments to Garrison's releases, however, may be necessary when the terns and plovers begin nesting in May. A rising pool during the fish spawn in April and May will be dependent upon the daily inflow pattern to the reservoir but appears possible with all runoff simulations.

Oahe Dam. Releases in the spring and summer will back up those from Gavins Point Dam. Given Median or higher runoff, the pool level should be steady to rising in the spring. If runoff is not sufficient to keep all the pool levels rising during the fish spawn in 2006, the Corps will, to the extent reasonably possible, set releases to result in a steady to rising pool at Garrison during April and May. Oahe pool levels may fall during April and May if runoff is low and/or releases from Garrison are reduced to ensure a rising pool level at that reservoir. Under all AOP simulations, the Oahe pool will fall during the summer.

Fort Randall Dam. Primary consideration is being given to staging or storing extra water in Fort Randall reservoir prior to the May Gavins Point spring pulse to avoid increasing the risk of potential impacts at the upper three reservoirs including those associated with water quality due to lower reservoir levels, water intake access problems and historic and cultural site exposure.

To the extent possible, Fort Randall will be regulated to provide for a pool elevation near 1355 feet msl during the fish spawn period, provided water can be

supplied from other reservoirs for downstream uses. The pool will not be drawn down below elevation 1337.5 feet msl in the fall to ensure adequate supply for water intakes. Hourly releases from Fort Randall during the 2006 nesting season will be restricted to limit peak stages below the project for nesting birds. Daily average flows may be increased every third day to preserve the capability of increasing releases later in the summer if conditions turn dry.

Gavins Point Dam. Assuming System storage is above the spring pulse precludes, March and May spring pulses will be made from Gavins Point Dam for the benefit of the endangered pallid sturgeon. Details related to the spring pulses, including the specific technical criteria for the 2006 pulses, are presented in ***Table V***.

Based on 2003 through 2005 nesting season results with the SR-FTT regulation and planned habitat development activities, it is anticipated that sufficient habitat will be available above the planned release rates to provide for successful nesting. All reasonable measures to minimize the loss of nesting T&E bird species will be used. These measures include, but are not limited to, such things as a relatively high initial SR during the peak of nest initiation, the use of the Kansas River basin reservoirs, moving nests to higher ground when possible, and monitoring nest fledge dates to determine if delaying an increase a few days might allow threatened chicks to fledge. The location of tows and river conditions at intakes would also be monitored to determine if an increase could be temporarily delayed with little or no impact. Cycling releases every third day may be used to conserve water early in the nesting season if extremely dry conditions develop. In addition, cycling may be used during downstream flood control regulation.

The Gavins Point pool will be regulated near 1206.0 feet msl in the spring and early summer with day-to-day variations due to rainfall runoff. Greater fluctuations occur in the river, increasing the risk of nest inundation in the upper end of the Gavins Point pool. Several factors contribute to the increased risk of nest inundation in the upper end of the Gavins Point pool. First, because there are greater numbers of T&E bird species nesting below the Gavins Point project, Gavins Point releases are restricted during the nesting season to minimize loss of nests or chicks. Second, rainfall runoff between Fort Randall Dam and Gavins Point Dam can result in sudden pool rises because the Gavins Point project has a smaller storage capacity than the other System reservoirs. Third, the regulation of Gavins Point for downstream flood control may necessitate sudden release reductions to prevent downstream T&E bird species losses. And finally, high releases required in wet years make nest inundation more likely. When combined, all these factors make it difficult and sometimes impossible to prevent inundation of nests in the upper end of the Gavins Point reservoir. It is anticipated that planned habitat creation projects in Lewis and Clark Lake may reduce these risks to T&E bird species by providing higher secure habitat for nesting. The pool will be

increased to elevation 1207.5 feet msl when it is determined that there are no terns or plovers nesting along the reservoir.

G. Regulation Activities for Historic and Cultural Properties. As acknowledged in the 2004 Programmatic Agreement for the Operation and Management of the Missouri River Main Stem System (PA), the fluctuation of the water has erosion affects under normal operating conditions. With the recent drought conditions additional sites have become exposed as the waters have receded. The Corps will work with the Tribes utilizing 36 CFR Part 800 and the PA to address the exposure of these sites. The objective of writing a programmatic agreement is to deal "…with the potential adverse effects of complex projects or multiple undertakings…" The PA objective was to collaboratively develop a preservation program that would avoid, minimize and/or mitigate the adverse affects of System regulation. Under all simulations System storage will be below normal levels and pool elevation at the upper three reservoirs will remain low, continuing to expose cultural sites along the shorelines. Actions to avoid, minimize or mitigate adverse impacts and expected results of the actions are covered under Chapter VI of this AOP. ***Plate 15*** shows the locations of the Tribal Reservations.

Fort Peck Dam. Depending on runoff in the Missouri River basin, System regulation during 2006 could result in a Fort Peck pool elevation variation from a high of 2231 feet msl to a low of 2193 feet msl. This is based on the upper and lower decile runoff scenarios (see ***Plate 7*** and the studies included at the end of this report). Based on a review of existing information, approximately 25 to 50 known sites could be affected during this period.

Garrison Dam. Based on the upper and lower decile runoff scenarios (see ***Plate 8*** and the studies included at the end of this report), Garrison pool elevations could range between 1832 and 1804 feet msl during 2006. Based on a review of existing information, approximately 100 to 150 known sites could be affected during this period.

Oahe Dam. At the Oahe reservoir, the System regulation under the upper and lower decile runoff scenarios could result in pool elevations between 1601 and 1566 feet msl (see ***Plate 9*** and the studies included at the end of this report). Based on a review of existing information, approximately 200 to 250 known sites could be affected during this period.

Big Bend Dam. System regulation will be adjusted to maintain the Big Bend pool level in the normal 1420 to 1421 feet msl range during 2006. Short-term increases above 1421 due to local rainfall may also occur. Based on a review of existing information, approximately 40 to 80 known sites could be affected during this period.

Fort Randall Dam. As part of the normal System regulation ,the Fort Randall pool elevations will vary between 1350 and 1355 feet msl during the spring and summer of

2006. Short-term increases above 1355 feet msl due to local rainfall may occur. The annual fall drawdown of the reservoir to elevation 1337.5 feet msl will begin prior to the close of the navigation season and will be accomplished by early December. The reservoir will then refill during the winter to elevation 1350 feet msl. Based on a review of existing information, approximately 75 to 100 known sites could be affected during this period.

Gavins Point Dam. System regulation will be adjusted to maintain the Gavins Point pool level in the normal 1206 to 1207.5 feet msl range during 2006. Short -term increases above 1207.5 feet msl may occur due to local rainfall. Based on a review of existing information, approximately 25 to 50 known sites could be affected during this period.

VI. SUMMARY OF RESULTS EXPECTED IN 2006

With regulation of the System in accordance with the 2005-2006 AOP outlined in the preceding pages, the following results can be expected.

A. Flood Control. All runoff scenarios studied will begin the March 1, 2006 runoff season substantially below the desired 57.0 MAF base of annual flood control and multiple use zone. Therefore, the entire System flood control zone, plus an additional 5.7 to 23.9 MAF of the carryover multiple use zone, will be available to store runoff. The System will be available to significantly reduce peak discharges and store a significant volume of water for all floods that may originate above the System.

Remaining storage in the carryover multiple use zone will be adequate to provide support for all of the other multiple purposes of the System, though at reduced levels.

B. Water Supply and Water Quality Control. Problems at intakes located in the river reaches and Mainstem reservoirs are related primarily to intake elevations or river access rather than inadequate water supply. In emergency situations, short-term adjustments to protect human health and safety would be considered to keep intakes operational.

Low reservoir levels during the current drought have contributed to both intake access and water quality problems for intakes on Garrison and Oahe reservoirs, including several Tribal intakes. The Standing Rock Sioux Tribe's intake at Fort Yates failed in November 2003 leaving the community without water for several days. The intake, which under normal circumstances is in Oahe reservoir, is presently in an open river situation due to Oahe reservoir receding as the pool level declined. The Bureau of Reclamation (BOR) has installed a temporary intake and drilled a well to ensure continued water supply for that community. The BOR has also lowered the intake at Wakpala on Oahe reservoir. The Corps has used its emergency authority to lower the

intake at Parshall on Garrison reservoir. Other intakes that have been identified as having problems or potential problems include Mandaree and Twin Buttes on Garrison reservoir, and the Mni Waste' intake on Oahe reservoir. The Corps is working with the Cheyenne River Sioux Tribe to relocate the Mni Waste' water intake which serves over 14,000 residents of and near the Cheyenne River Indian Reservation in Dewey, Ziebach, and Meade Counties in South Dakota. If the drought continues, reservoir pool levels and releases may continue to fall below their previous historic lows creating the potential for additional intake access and water quality problems at both river and reservoir intakes.

Although below normal winter releases are being provided for all five runoff scenarios, all water supply and water quality requirements on the Missouri River both below Gavins Point Dam and between System reservoirs should be met for all flow conditions studied. It is possible with the low winter releases that ice formation or ice jams may temporarily reduce river stages to levels below which some intakes can draw water. Therefore, during severe cold spells, experience has shown that for brief periods it may be necessary to increase Gavins Point releases to help alleviate downstream water supply problems.

During the non-navigation periods in the spring and fall, System releases as low as 9,000 cfs are possible with adequate downstream tributary flow, as was provided in the fall of 2004 and the spring and fall of 2005, to conserve water in the System for future use by all authorized purposes. If a non-navigation year would occur, summer releases as low as 18,000 cfs from the System are possible during the summer months. These lower release rates are expected to result in reduced river levels that may impact some downstream intakes that have marginal access to the Missouri River. Historically, water access problems have been associated with several of these intakes; however, in most cases the problems have been a matter of restricted access to the river or reservoir rather than insufficient water supply. The Corps continues to encourage intake operators throughout the System and along the lower river reach to make necessary modifications to their intakes to allow efficient operation over the widest possible range of hydrologic conditions.

C. Irrigation. Scheduled releases from the System reservoirs will be sufficient to meet the volumes of flow required for irrigation diversions from the Missouri River. Some access problems may be experienced, however, if drought conditions persist. Tributary irrigation water usage is fully accounted for in the estimates of water supply.

D. Navigation. Service to navigation in 2006 will be scheduled at minimum service flow support for all runoff scenarios. Although the AOP simulations provide a comparison of typical flow support under varying runoff conditions, the actual rate of flow support for the 2006 navigation season will be based on actual System storage on March 15 and July 1, 2006.

All simulations have a shortened navigation season. The anticipated service level and season length for all runoff conditions simulated are shown in ***Table VI***.

E. Power. ***Tables IX and X*** give the estimated monthly System load requirements and hydropower supply of the Eastern Division, Pick-Sloan Missouri Basin Program (P-S MBP), from August 2005 through December 2006. Estimates of monthly peak demands and energy include customer requirements for firm, short-term firm, summer firm, peaking, and various other types of power sales, System losses, and the effects of diversity. Also included in the estimated requirements are deliveries of power to the Western Division, P-S MBP, to help meet its firm power commitments.

F. Recreation, Fish and Wildlife. The regulation of the System will continue to provide recreation and fish and wildlife opportunities in the project areas and along the Missouri River as well as other benefits of a managed system. As a result of the drought, the upper three reservoir levels will remain well below normal and recreation access will be limited at several locations. Special regulation adjustments incorporating specific objectives for these purposes will be accomplished whenever possible. Conditions in the lower three reservoirs should be favorable for the many visitors who enjoy the camping, boating, fishing, hunting, swimming, picnicking, and other recreational activities associated with the System reservoirs.

Boat ramps that were lowered and low water ramps that were constructed during the drought of the late 1980's to early 1990's and the further improvements made in 2003 through 2005 should provide adequate reservoir access this year even under the Lower Decile runoff scenario. However, boat ramps in some areas where the ramps cannot be extended may become unusable. This will affect the normal use patterns as visitors will have to seek out areas with usable boat ramps. Boat ramp elevations for Fort Peck, Garrison, Oahe and Fort Randall reservoirs are available on the Missouri River Basin Water Management Division web site at www.nwd-mr.usace.army.mil/rcc.

The effects of the simulated System regulation during 2006 on fish and wildlife, including the spring pulse from Gavins Point Dam for the benefit of the endangered pallid sturgeon, are included in Chapter V, Section F, entitled, "Regulation Activities for T&E Species and Fish Propagation Enhancement."

G. Historic and Cultural Properties. As mentioned in Chapter V of this AOP, the regulation of the System during 2005 and 2006 will expose cultural sites due to erosion from the normal fluctuation of pool elevations as well as the recent drought conditions which has exposed previously inundated sites as the waters have receded. The Corps will work with the Tribes utilizing 36 CFR Part 800 and the PA to address the exposure of these sites. The objective of writing a PA is to deal "…with the potential adverse effects of complex projects or multiple undertakings…" The PA objective was

TABLE IX
PEAKING CAPABILITY AND SALES
(1,000 kW at plant)

2005	Estimated Committed Sales*	Expected C of E Capability					Expected Bureau Capability					Expected Total System Capability				
			120%	Basic	80%			120%	Basic	80%			120%	Basic	80%	
Aug	2261		2039	2035	2032			211	210	207			2250	2245	2239	
Sep	1844		2009	2001	1994			209	207	206			2218	2208	2200	
Oct	1808		2007	1996	1984			209	207	205			2216	2203	2189	
Nov	1889		2018	2000	1986			208	206	203			2226	2206	2189	
Dec	2055		2039	2011	1993			202	202	198			2241	2213	2191	
2006																
Jan	2240		2058	2028	2004			195	196	194			2253	2224	2198	
Feb	1993		2066	2038	2013			187	193	190			2253	2231	2203	
		U.D.	U.Q.	Med	L.Q.	L.D.	U.D.	U.Q.	Med	L.Q.	L.D.	U.D.	U.Q.	Med	L.Q.	L.D.
Mar	1903	2106	2097	2060	2021	2016	190	190	193	180	189	2296	2287	2253	2201	2205
Apr	1778	2134	2121	2072	2021	2012	194	194	196	178	189	2328	2315	2268	2199	2201
May	1815	2163	2145	2088	2025	2007	199	200	204	182	193	2362	2345	2292	2207	2200
Jun	1934	2216	2190	2131	2059	2021	213	213	213	188	199	2429	2403	2344	2247	2220
Jul	2346	2236	2206	2136	2051	2004	213	213	213	186	196	2449	2419	2349	2237	2200
Aug	2259	2230	2204	2126	2033	1981	209	210	210	184	193	2439	2414	2336	2217	2174
Sep	1844	2234	2196	2115	2030	1942	208	209	208	185	192	2442	2405	2323	2215	2134
Oct	1808	2198	2164	2080	2026	1945	205	207	206	187	193	2403	2371	2286	2213	2138
Nov	1889	2205	2175	2087	2029	1947	202	204	203	187	194	2407	2379	2290	2216	2141
Dec	2055	2191	2161	2063	2004	1915	196	198	199	186	192	2387	2359	2262	2190	2107

* Estimated sales, including system reserves. Power in addition to hydro production needed for these load requirements wil be obtained from other power systems by interchange or purchase.
** Total output of Canyon Ferry and 1/2 of the output of Yellowtail powerplant.

TABLE X
ENERGY GENERATION AND SALES
(Million kWh at plant)

2005	Estimated Committed Sales*	Expected C of E Generation					Expected Bureau Generation **					Expected Total System Generation				
			120%	Basic	80%			120%	Basic	80%			120%	Basic	80%	
Aug	842		655	662	669			72	66	56			727	727	725	
Sep	713		460	462	488			64	62	52			524	524	540	
Oct	721		347	346	359			64	63	52			411	408	411	
Nov	779		290	289	289			74	63	56			364	352	345	
Dec	887		497	466	465			87	71	57			584	536	522	
2006																
Jan	899		474	465	450			84	69	57			558	534	507	
Feb	868		387	417	428			74	61	50			461	478	477	
		U.D.	U.Q.	Med	L.Q.	L.D.	U.D.	U.Q.	Med	L.Q.	L.D.	U.D.	U.Q.	Med	L.Q.	L.D.
Mar	793	409	441	432	478	473	80	80	67	47	48	489	521	499	525	521
Apr	742	465	501	516	601	589	71	71	60	38	40	537	572	577	639	629
May	687	578	618	637	685	676	81	78	66	43	44	659	696	703	728	720
Jun	749	625	652	670	658	655	107	101	75	44	45	732	753	745	701	700
Jul	831	724	741	759	797	785	148	138	89	56	47	872	879	848	853	832
Aug	846	780	756	748	750	729	99	92	81	56	46	879	848	828	806	775
Sep	718	631	576	568	331	484	94	89	85	54	45	725	665	653	385	529
Oct	722	475	527	486	353	287	94	89	85	57	49	569	615	570	410	336
Nov	783	429	339	331	321	306	87	88	80	55	47	517	427	411	375	353
Dec	890	559	575	523	528	485	89	90	81	56	48	648	664	604	584	533
CY TOT	9528	6536	6586	6552	6382	6346	1109	1073	900	612	565	7646	7658	7451	6990	6911

* Estimated sales including system reserves and losses. Power in addition to hydro production needed for these load requirements will be obtained from other systems by interchange or purchase.
** Total output Canyon Ferry and 1/2 output of Yellowtail powerplant.

to collaboratively develop a preservation program that would avoid, minimize and/or mitigate the adverse affects of the System operation.

The planned preservation program for this AOP is outlined by multiple stipulations in the PA. One of the stipulations, or program components, is the five-year plan. This plan outlines how the Corps will accomplish its responsibilities under the PA and the National Historic Preservation Act. The "Draft Five Year Plan, dated February 2005" (see https://www.nwo.usace.army.mil/CR/) is currently being implemented. The plan includes inventory, testing and evaluation, mitigation and other specific activities that will allow the Corps to avoid, minimize and/or mitigate the adverse effects to cultural sites on Corps lands within the System. Many of the actions listed in the plan are within the elevation ranges that will occur with the implementation of the Master Manual criteria in 2005-2006. Two critical components of the five year plan that are applicable to this AOP are monitoring and mitigation, which will be briefly discussed in the following paragraphs.

First, a collaboratively developed plan, entitled "Draft Monitoring and Enforcement Plan, dated April 2005" (see https://www.nwo.usace.army.mil/CR/) is in place. This monitoring plan outlines the sites that require monitoring and specifies a frequency for monitoring. The Corps plans to strategically monitor sites, those sites within the potential operating pool elevations, to document the effects of the implementation of the 2005-2006 Annual Operating Plan, which includes the Spring Pulse technical criteria. Specific sites are identified in the draft Monitoring and Enforcement Plan for the monitoring team, comprised of Corps rangers and tribal monitors, to visit and document impacts. This focused monitoring will result in more accurate data on the current impacts to sites along the river plus it will assist in the identification of sites for mitigation. Training for the monitoring team is currently scheduled for March 2006.

Secondly, it is expected that the monitoring of the implementation of the Annual Operating Plan, which includes the Spring Pulse technical criteria, will identify sites that will require immediate mitigation. The Corps plans to compile the data from the monitoring efforts and determine which sites will require immediate mitigation, most likely stabilization, during the implementation of this AOP. It is expected that there will be more sites than funding will allow, so the Corps will work with the affected Tribes, Tribal Historic Preservation Officers, the Advisory Council on Historic Preservation, State Historic Preservation Officers, and other consulting parties in the prioritization of those sites that need stabilization.

Results expected from the proposed monitoring and mitigation actions include more accurate horizontal and vertical data on existing cultural sites, detailed impact data, proactive protection and preservation of sites. The effects of the simulated System

regulation during 2006 on cultural sites are included in the Chapter V, section G., entitled, "Regulation Activities for Historic and Cultural Properties."

H. System Storage. If presently anticipated runoff estimates based upon the August 1, 2005 Basic runoff forecast materialize, System storage will total about 36.1 MAF by the close of CY 2005, 0.9 MAF higher than the record low end-of-year storage of 35.2 MAF set in 2004. This end-of-year storage is 17.9 MAF less than the 1967 to 2004 average. The record low storage during the 1988-1992 drought was 40.8 MAF in January 1991. The end-of-year System storages have ranged from a maximum of 60.9 MAF, in 1975, to the 2004 minimum of 35.2 MAF. Forecasted System storage on December 31, 2006 is presented in ***Table XI*** for the runoff scenarios simulated.

I. Summary of Water Use by Functions. Anticipated water use in CY 2005, under the regulation plan with the Basic Forecast of water supply is shown in ***Table XII***. Actual water use data for CY 2004 are included for information and comparison**.** Under the reservoir regulation simulations in this AOP, estimated water use in CY 2006 also is shown in ***Table XII.***

TABLE XI
ANTICIPATED DECEMBER 31, 2006 SYSTEM STORAGE

Water Supply Condition	Total (12/31/06)	Carryover Storage Remaining 1/	Unfilled Carryover Storage 2/	Total Change CY 2006
	(Volumes in 1,000 Acre-Feet)			
Without Spring Pulse				
Upper Decile	51,100	33,100	5,900	13,800
Upper Quartile	48,300	30,300	8,700	11,000
Median	42,000	24,000	15,000	5,900
Lower Quartile	37,000	19,000	20,000	1,900
Lower Decile	33,100	15,100	23,900	-2,000
With Spring Pulse				
Upper Decile	50,900	32,900	6,100	13,600
Upper Quartile	48,200	30,200	8,800	10,900
Median	41,800	23,800	15,200	5,700

1/ Net usable storage above 18.0 MAF System minimum pool level established for power, recreation, irrigation diversions, and other purposes.

2/ System base of annual flood control zone containing 57.0 MAF.

TABLE XII
MISSOURI RIVER MAINSTEM SYSTEM
WATER USE FOR CALENDAR YEARS 2004, 2005, AND 2006 ABOVE SIOUX CITY, IOWA
in Million Acre-Feet (MAF)

				Simulations for Calendar Year 2006 Without Spring Pulse (8)				
		CY 2004 Actual	CY 2005 Basic Simulation	Upper Decile	Upper Quartile	Median	Lower Quartile	Lower Decile
Upstream Depletions	(1)							
Irrigation, Tributary Reservoir Evaporation & Other Uses		2.1	2.2					
Tributary Reservoir Storage Change		0.0	0.4					
Total Upstream Depletions		2.1	2.6	2.5	2.3	2.3	2.2	2.0
System Reservoir Evaporation	(2)	2.4	1.9	1.2	1.1	1.3	1.6	1.4
Sioux City Flows								
Navigation Season								
Unregulated Flood Inflows Between Gavins Point & Sioux City	(3)	0.0	0.0					
Navigation Service Requirement	(4)	10.2	10.5	13.5	12.5	11.3	10.0	9.9
Supplementary Releases								
T&E Species	(5)	1.0	0.3	0.2	0.2	0.2	0.0	0.0
Flood Evacuation	(6)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Non-navigation Season								
Flows		4.1	3.6	3.3	3.5	3.6	3.8	4.1
Flood Evacuation Releases	(7)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
System Storage Change		- 3.5	0.9	13.8	11.0	5.9	1.9	-1.9
Total		16.2	19.8	34.5	30.6	24.6	19.5	15.5
Project Releases								
Fort Peck		4.9	5.5	4.2	5.0	4.9	4.8	4.9
Garrison		12.0	14.5	12.9	12.8	12.6	12.2	11.7
Oahe		12.7	14.8	11.2	11.3	12.0	12.5	12.7
Big Bend		11.8	14.0	11.1	11.3	11.9	12.4	12.6
Fort Randall		12.8	15.3	12.0	12.3	12.7	12.2	12.7
Gavins Point		14.0	17.3	14.5	14.1	14.0	13.3	13.8

(1) Tributary uses above the 1949 level of development including agricultural depletions and tributary storage effects.
(2) Net evaporation is shown for 2006.
(3) Incremental inflows to reach which exceed those usable in support of navigation at the target level, even if Gavins Point releases were held to as low as 6,000 cfs.
(4) Estimated requirement for downstream water supply and water quality in 2006 is approximately 6.0 MAF.
(5) Increased releases required for endangered species regulation.
(6) Includes flood control releases for flood control storage evacuation and releases used to extend the navigation season beyond the normal December 1 closing date at the mouth of the Missouri River.
(7) Releases for flood control storage evacuation in excess of a 15,000 cfs Fort Randall release.
(8) Spring pulse increases the Supplementary Releases for T&E Species by 0.2 MAF in the 2006 Upper Decile, Upper Quartile, and Median runoff scenarios. This volume is offset by slight reductions (0.0 to 0.2 MAF) in the Navigation Service Requirement and System Storage change.

VII. TENTATIVE PROJECTION OF REGULATION THROUGH MARCH 2012

The five-year extensions to the AOP (March 2007 to March 2012) have been prepared to serve as a guide for the Western Area Power Administration's marketing activities and to provide data to allow basin interests to conduct long term planning. The three runoff conditions are modeled in the extension studies: Median, Lower Quartile and Lower Decile.

The navigation service level and season length criteria described in Section V, Chapter A were applied to the extensions. The March 15 and July 1 System storage checks shown in ***Tables II and III*** were used to determine the flow support for navigation and other downstream uses, and the navigation season length. A steady release – flow to target (SR-FTT) regulation with cycling in May was modeled during the T&E species' nesting season. ***Table IV*** releases, as computed by the March 15 and July 1 System storage checks, were used prior to and following the nesting season. The September 1 System storage check was used to determine the winter System release. Navigation service support and season length, magnitudes of March and May spring pulses, March 1 reservoir unbalancing, end of year System storage, and the winter release rate for the extensions are shown on ***Table XIII***.

A. Median Runoff. Studies 12 through 16 present the results of simulating Median runoff (24.6 MAF) from 2007 through 2011. The March 1, 2007 System storage would be 42.1 MAF and would rise to 53.0 MAF by March 1, 2012, 4.0 MAF below the desired March 1 storage of 57.0 MAF, the base of the annual flood control and multiple use pool. The navigation service level would gradually increase from minimum service in 2007 to full service after the July 1 storage check in 2010 and 2011. The 2007 navigation season would be shortened 20 days; a full 8-month navigation season would be supported in 2008 through 2011. Winter System releases would increase slightly from an average of the minimum 12,500 cfs to 13,000 cfs beginning the winter of 2010-2011. The winter of 2011-2012 releases would be 14,200 cfs. March and May spring pulses would occur each year, with the magnitude of the May pulse increasing from 13,300 cfs in 2007 to 16,000 cfs in 2011. Fort Peck, Garrison, and Oahe pools rise to the elevations described in ***Table VII*** that permit unbalancing by March 1, 2010. The Fort Peck "mini-test" could be conducted in 2010 by unbalancing the upper three reservoirs as shown in ***Table XIII***. The Fort Peck release would average 12,800 cfs in June of 2010. Fort Peck would be favored again in 2011 to accommodate the full test.

TABLE XIII
NAVIGATION SERVICE SUPPORT, SPRING PULSES, UNBALANCING
AOP EXTENSION STUDIES

	2007	2008	2009	2010	2011
MEDIAN					
Spring Pulse					
March (kcfs)	5.0	5.0	5.0	5.0	5.0
May (kcfs)	13.3	14.6	15.4	15.9	16.0
Flow Level Below Full Service					
Spring (kcfs)	-6.0	-6.0	-3.7	-1.7	-0.9
Summer/Fall (kcfs)	-6.0	-3.8	-3.8	0.0	0.0
Season Length (Months)	8-20 days	8	8	8	8
Reservoir Unbalancing (ft)					
Fort Peck	0	0	0	+4.3	+4.2
Garrison	0	0	0	-3.0	-3.0
Oahe	0	0	0	0	0
Dec 31 Storage (MAF)	46.7	49.8	51.6	52.6	53.0
Winter Release (kcfs)	12.5	12.5	12.5	13.0	14.2
LOWER QUARTILE					
Spring Pulse					
March (kcfs)	5.0	0	0	5.0	5.0
May (kcfs)	9.0	0	9.4	9.8	10.1
Flow Level Below Full Service					
Spring (kcfs)	-6.0	-6.0	-6.0	-6.0	-6.0
Summer/Fall (kcfs)	-6.0	-6.0	-6.0	-6.0	-6.0
Season Length (Months)	8-33 days	8-31 days	8-31days	8-31 days	8-20 days
Reservoir Unbalancing (ft)					
Fort Peck	0	0	0	0	0
Garrison	0	0	0	0	0
Oahe	0	0	0	0	0
Dec 31 Storage (MAF)	38.0	39.7	41.5	43.4	45.5
Winter Release (kcfs)	12.5	12.5	12.5	12.5	12.5
LOWER DECILE					
Spring Pulse					
March (kcfs)	0	0	0	0	0
May (kcfs)	0	0	0	0	0
Flow Level Below Full Service					
Spring (kcfs)	-6.0	-6.0	-6.0	-6.0	-6.0
Summer/Fall (kcfs)	-6.0	-6.0	-6.0	-6.0	-6.0
Season Length (Months)	6	6	6	6	6
Reservoir Unbalancing (ft)					
Fort Peck	0	0	0	0	0
Garrison	0	0	0	0	0
Oahe	0	0	0	0	0
Dec 31 Storage (MAF)	31.7	31.1	31.2	31.9	32.9
Winter Release (kcfs)	12.5	12.5	12.5	12.5	12.5

B. Lower Quartile Runoff. Studies 17 through 21 show the results of Lower Quartile runoff extensions. System storage on March 1, 2007 is 36.7 MAF and rises to 45.5 MAF by March of 2012 with navigation service levels remaining at minimum service during the simulation period. The navigation season is shortened 33 days in 2007, 31 days in 2008 through 2010, and 20 days in 2011 as System storage increases. A 12,500 cfs average winter release is shown for the entire study period. Spring pulses would occur in 2007, and again in 2009 through 2011. Since the upper three reservoirs do not refill under Lower Quartile runoff, their percent of remaining carryover multiple use storage is balanced each March 1.

C. Lower Decile Runoff. Studies 22 through 26 show the results of Lower Decile runoff extensions. System storage is 32.8 MAF on March 1, 2007, reaching a low of 31.0 MAF on February 1, 2009, and then rising to 32.9 MAF by March of 2012. The navigation service level remains at minimum service during the simulation period and the navigation season is shortened two months each year. A 12,500 cfs average winter release is shown for the entire study period. No spring pulses or intrasystem unbalancing are shown due to the low system storage.

Plate 13 presents System storage, Gavins Point, and System peaking capability for Median, Lower Quartile, and Lower Decile runoff for the period 2007 through March of 2012. Peak power, or peaking capability, is the amount of power available when all powerplants are operating at maximum.

Plate 14 presents reservoir pool elevations for Fort Peck, Garrison, Oahe, and Fort Randall for Median, Lower Quartile, and Lower Decile runoff for the period 2007 through March of 2012.

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MISSOURI RIVER BASIN

PLATE 1

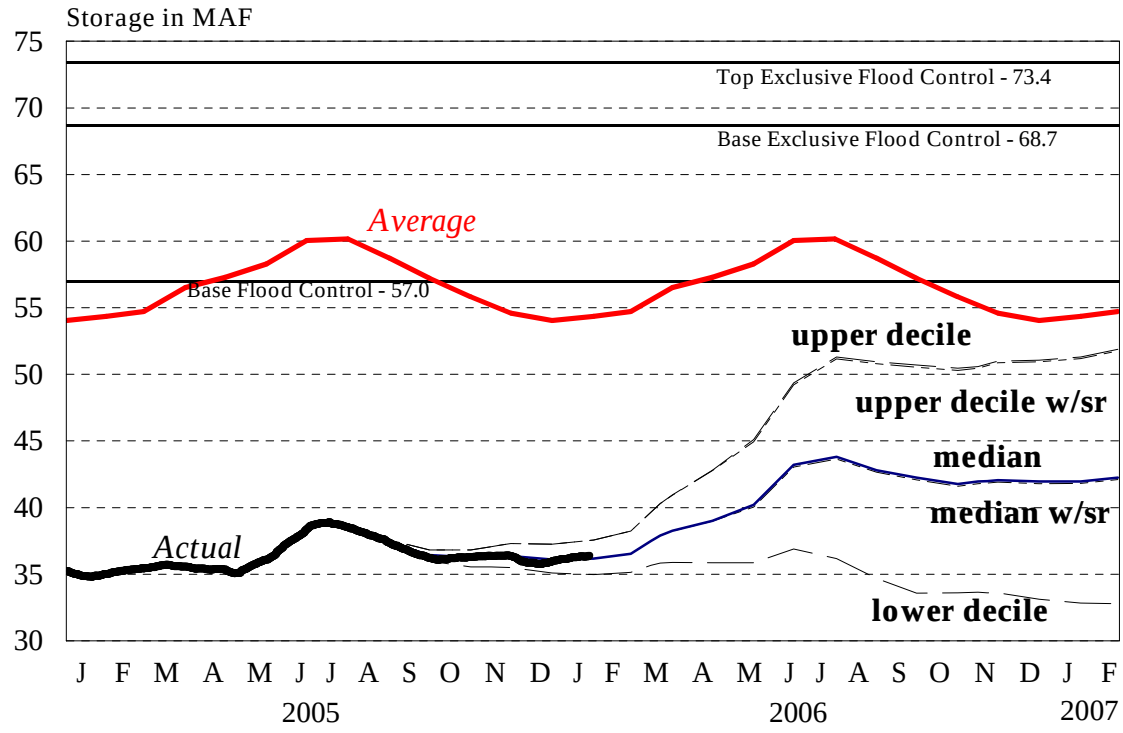
Summary of Engineering Data -- Missouri River Mainstem System

Item No.	Subject	Fort Peck Dam - Fort Peck Lake	Garrison Dam - Lake Sakakawea	Oahe Dam - Lake Oahe
1	Location of Dam	Near Glasgow, Montana	Near Garrison, ND	Near Pierre, SD
2	River Mile - 1960 Mileage	Mile 1771.5	Mile 1389.9	Mile 1072.3
3	Total & incremental drainage areas in square miles	57,500	181,400 (2) 123,900	243,490 (1) 62,090
4	Approximate length of full reservoir (in valley miles)	134, ending near Zortman, MT	178, ending near Trenton, ND	231, ending near Bismarck, ND
5	Shoreline in miles (3)	1520 (elevation 2234)	1340 (elevation 1837.5)	2250 (elevation 1607.5)
6	Average total & incremental inflow in cfs	10,200	25,600 15,400	28,900 3,300
7	Max. discharge of record near damsite in cfs	137,000 (June 1953)	348,000 (April 1952)	440,000 (April 1952)
8	Construction started - calendar yr.	1933	1946	1948
9	In operation (4) calendar yr.	1940	1955	1962
	Dam and Embankment			
10	Top of dam, elevation in feet msl	2280.5	1875	1660
11	Length of dam in feet	21,026 (excluding spillway)	11,300 (including spillway)	9,300 (excluding spillway)
12	Damming height in feet (5)	220	180	200
13	Maximum height in feet (5)	250.5	210	245
14	Max. base width, total & w/o berms in feet	3500, 2700	3400, 2050	3500, 1500
15	Abutment formations (under dam & embankment)	Bearpaw shale and glacial fill	Fort Union clay shale	Pierre shale
16	Type of fill	Hydraulic & rolled earth fill	Rolled earth filled	Rolled earth fill & shale berms
17	Fill quantity, cubic yards	125,628,000	66,500,000	55,000,000 & 37,000,000
18	Volume of concrete, cubic yards	1,200,000	1,500,000	1,045,000
19	Date of closure	24 June 1937	15 April 1953	3 August 1958
	Spillway Data			
20	Location	Right bank - remote	Left bank - adjacent	Right bank - remote
21	Crest elevation in feet msl	2225	1825	1596.5
22	Width (including piers) in feet	820 gated	1336 gated	456 gated
23	No., size and type of gates	16 - 40' x 25' vertical lift gates	28 - 40' x 29' Tainter	8 - 50' x 23.5' Tainter
24	Design discharge capacity, cfs	275,000 at elev 2253.3	827,000 at elev 1858.5	304,000 at elev 1644.4
25	Discharge capacity at maximum operating pool in cfs	230,000	660,000	80,000
	Reservoir Data (6)			
26	Max. operating pool elev. & area	2250 msl 246,000 acres	1854 msl 380,000 acres	1620 msl 374,000 acres
27	Max. normal op. pool elev. & area	2246 msl 240,000 acres	1850 msl 364,000 acres	1617 msl 360,000 acres
28	Base flood control elev & area	2234 msl 212,000 acres	1837.5 msl 307,000 acres	1607.5 msl 312,000 acres
29	Min. operating pool elev. & area	2160 msl 90,000 acres	1775 msl 128,000 acres	1540 msl 117,000 acres
	Storage allocation & capacity			
30	Exclusive flood control	2250-2246 975,000 a.f.	1854-1850 1,489,000 a.f.	1620-1617 1,102,000 a.f.
31	Flood control & multiple use	2246-2234 2,717,000 a.f.	1850-1837.5 4,222,000 a.f.	1617-1607.5 3,201,000 a.f.
32	Carryover multiple use	2234-2160 10,785,000 a.f.	1837.5-1775 13,130,000 a.f.	1607.5-1540 13,461,000 a.f.
33	Permanent	2160-2030 4,211,000 a.f.	1775-1673 4,980,000 a.f.	1540-1415 5,373,000 a.f.
34	Gross	2250-2030 18,688,000 a.f.	1854-1673 23,821,000 a.f.	1620-1415 23,137,000 a.f.
35	Reservoir filling initiated	November 1937	December 1953	August 1958
36	Initially reached min. operating pool	27 May 1942	7 August 1955	3 April 1962
37	Estimated annual sediment inflow	18,100 a.f. 1030 yrs.	25,900 a.f. 920 yrs.	19,800 a.f. 1170 yrs.
	Outlet Works Data			
38	Location	Right bank	Right Bank	Right Bank
39	Number and size of conduits	2 - 24' 8" diameter (nos. 3 & 4)	1 - 26' dia. and 2 - 22' dia.	6 - 19.75' dia. upstream, 18.25' dia. downstream
40	Length of conduits in feet (8)	No. 3 - 6,615, No. 4 - 7,240	1529	3496 to 3659
41	No., size, and type of service gates	1 - 28' dia. cylindrical gate 6 ports, 7.6' x 8.5' high (net opening) in each control shaft	1 - 18' x 24.5' Tainter gate per conduit for fine regulation	1 - 13' x 22' per conduit, vertical lift, 4 cable suspension and 2 hydraulic suspension (fine regulation)
42	Entrance invert elevation (msl)	2095	1672	1425
43	Avg. discharge capacity per conduit & total	Elev. 2250 22,500 cfs - 45,000 cfs	Elev. 1854 30,400 cfs - 98,000 cfs	Elev. 1620 18,500 cfs - 111,000 cfs
44	Present tailwater elevation (ft msl)	2032-2036 5,000 - 35,000 cfs	1670-1680 15,000- 60,000 cfs	1423-1428 20,000-55,000 cfs
	Power Facilities and Data			
45	Avg. gross head available in feet (14)	194	161	174
46	Number and size of conduits	No. 1-24'8" dia., No. 2-22'4" dia.	5 - 29' dia., 25' penstocks	7 - 24' dia., imbedded penstocks
47	Length of conduits in feet (8)	No. 1 - 5,653, No. 2 - 6,355	1829	From 3,280 to 4,005
48	Surge tanks	PH#1: 3-40' dia., PH#2: 2-65' dia.	65' dia. - 2 per penstock	70' dia., 2 per penstock
49	No., type and speed of turbines	5 Francis, PH#1-2: 128.5 rpm, 1-164 rpm , PH#2-2: 128.6 rpm	5 Francis, 90 rpm	7 Francis, 100 rpm
50	Discharge cap. at rated head in cfs	PH#1, units 1&3 170', 2-140' 8,800 cfs, PH#2-4&5 170'-7,200 cfs	150' 41,000 cfs	185' 54,000 cfs
51	Generator nameplate rating in kW	1&3: 43,500; 2: 18,250; 4&5: 40,000	3 - 109,250, 2 - 95,000	112,290
52	Plant capacity in kW	185,250	517,750	786,030
53	Dependable capacity in kW (9)	181,000	388,000	534,000
54	Avg. annual energy, million kWh (12)	1,111	2,365	2,787
55	Initial generation, first and last unit	July 1943 - June 1961	January 1956 - October 1960	April 1962 - June 1963
56	Estimated cost September 1999 completed project (13)	$158,428,000	$305,274,000	$346,521,000

Summary of Engineering Data -- Missouri River Mainstem System

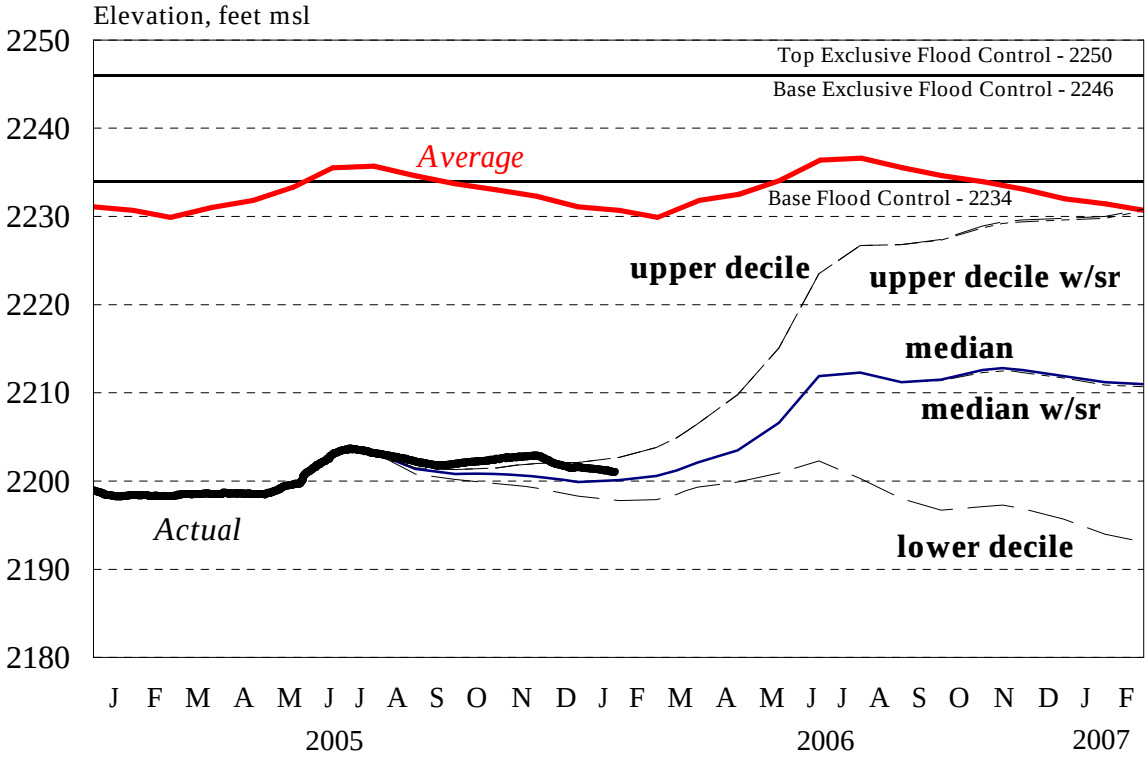
Big Bend Dam - Lake Sharpe	Fort Randall Dam - Lake Francis Case	Gavins Point Dam - Lewis & Clark Lake	Total	Item No.	Remarks
21 miles upstream Chamberlain, SD	Near Lake Andes, SD	Near Yankton, SD		1	(1) Includes 4,280 square miles of non-contributing areas.
Mile 987.4	Mile 880.0	Mile 811.1		2	
249,330 (1) 5,840	263,480 (1) 14,150	279,480 (1) 16,000		3	(2) Includes 1,350 square miles of non-contributing areas.
80, ending near Pierre, SD	107, ending at Big Bend Dam	25, ending near Niobrara, NE	755 miles	4	
200 (elevation 1420)	540 (elevation 1350)	90 (elevation 1204.5)	5,940 miles	5	(3) With pool at base of flood control.
28,900	30,000 1,100	32,000 2,000		6	
440,000 (April 1952)	447,000 (April 1952)	480,000 (April 1952)		7	(4) Storage first available for regulation of flows.
1959	1946	1952		8	(5) Damming height is height from low water to maximum operating pool. Maximum height is from average streambed to top of dam.
1964	1953	1955		9	
1440	1395	1234		10	
10,570 (including spillway)	10,700 (including spillway)	8,700 (including spillway)	71,596	11	(6) Based on latest available storage data.
78	140	45	863 feet	12	
95	165	74		13	(7) River regulation is attained by flows over low-crested spillway and through turbines.
1200, 700	4300, 1250	850, 450		14	
Pierre shale & Niobrara chalk	Niobrara chalk	Niobrara chalk & Carlile shale		15	(8) Length from upstream face of outlet or to spiral case.
Rolled earth, shale, chalk fill	Rolled earth fill & chalk berms	Rolled earth & chalk fill		16	
17,000,000	28,000,000 & 22,000,000	7,000,000	358,128,000 cu. yds	17	(9) Based on 8th year (1961) of drought drawdown (From study 8-83-1985).
540,000	961,000	308,000	5,554,000 cu. yds.	18	
24 July 1963	20 July 1952	31 July 1955		19	
Left bank - adjacent	Left bank - adjacent	Right bank - adjacent		20	(10) Affected by level of Lake Francis case. Applicable to pool at elevation 1350.
1385	1346	1180		21	
376 gated	1000 gated	664 gated		22	(11) Spillway crest.
8 - 40' x 38' Tainter	21 - 40' x 29' Tainter	14 - 40' x 30' Tainter		23	(12) 1967-2003 Average
390,000 at elev 1433.6	620,000 at elev 1379.3	584,000 at elev 1221.4		24	(13) Source: Annual Report on Civil Works Activities of the Corps of Engineers. Extract Report Fiscal Year 1999.
270,000	508,000	345,000		25	
1423 msl 61,000 acres	1375 msl 102,000 acres	1210 msl 31,000 acres	1,194,000 acres	26	(14) Based on Study 8-83-1985
1422 msl 60,000 acres	1365 msl 95,000 acres	1208 msl 28,000 acres	1,147,000 acres	27	
1420 msl 57,000 acres	1350 msl 77,000 acres	1204.5 msl 24,000 acres	989,000 acres	28	
1415 msl 51,000 acres	1320 msl 38,000 acres	1204.5 msl 24,000 acres	450,000 acres	29	
1423-1422 60,000 a.f.	1375-1365 985,000 a.f.	1210-1208 59,000 a.f.	4,670,000 a.f.	30	
1422-1420 117,000 a.f.	1365-1350 1,309,000 a.f.	1208-1204.5 90,000 a.f.	11,656,000 a.f.	31	
	1350-1320 1,607,000 a.f.		38,983,000 a.f.	32	
1420-1345 1,621,000 a.f.	1320-1240 1,517,000 a.f.	1204.5-1160 321,000 a.f.	18,023,000 a.f.	33	
1423-1345 1,798,000 a.f.	1375-1240 5,418,000 a.f.	1210-1160 470,000 a.f.	73,332,000 a.f.	34	
November 1963	January 1953	August 1955		35	
25 March 1964	24 November 1953	22 December 1955		36	
4,300 a.f. 430 yrs.	18,300 a.f. 250 yrs.	2,600 a.f. 180 yrs.	92,500 a.f.	37	
	Left Bank			38	
None (7)	4 - 22' diameter	None (7)		39	
	1013			40	
	2 - 11' x 23' per conduit, vertical lift, cable suspension			41	
1385 (11)	1229	1180 (11)		42	
	Elev 1375			43	
	32,000 cfs - 128,000 cfs				
1351-1355(10) 25,000-100,000 cfs	1228-1239 5,000-60,000 cfs	1155-1163 15,000-60,000 cfs		44	
70	117	48	764 feet	45	
None: direct intake	8 - 28' dia., 22' penstocks	None: direct intake		46	
	1,074		55,083	47	
None	59' dia, 2 per alternate penstock	None		48	
8 Fixed blade, 81.8 rpm	8 Francis, 85.7 rpm	3 Kaplan, 75 rpm	36 units	49	
67' 103,000 cfs	112' 44,500 cfs	48' 36,000 cfs		50	
3 - 67,276, 5 - 58,500	40,000	44,100		51	
494,320	320,000	132,300	2,435,650 kw	52	
497,000	293,000	74,000	1,967,000 kw	53	Corps of Engineers, U.S. Army
1,021	1,810	748	9,842 million kWh	54	Compiled by
October 1964 - July 1966	March 1954 - January 1956	September 1956 - January 1957	July 1943 - July 1966	55	Northwestern Division
				56	Missouri River Region
$107,498,000	$199,066,000	$49,617,000	$1,166,404,000		January 2006

System Storage
2005-2006 Final AOP



Average: 1967-2004

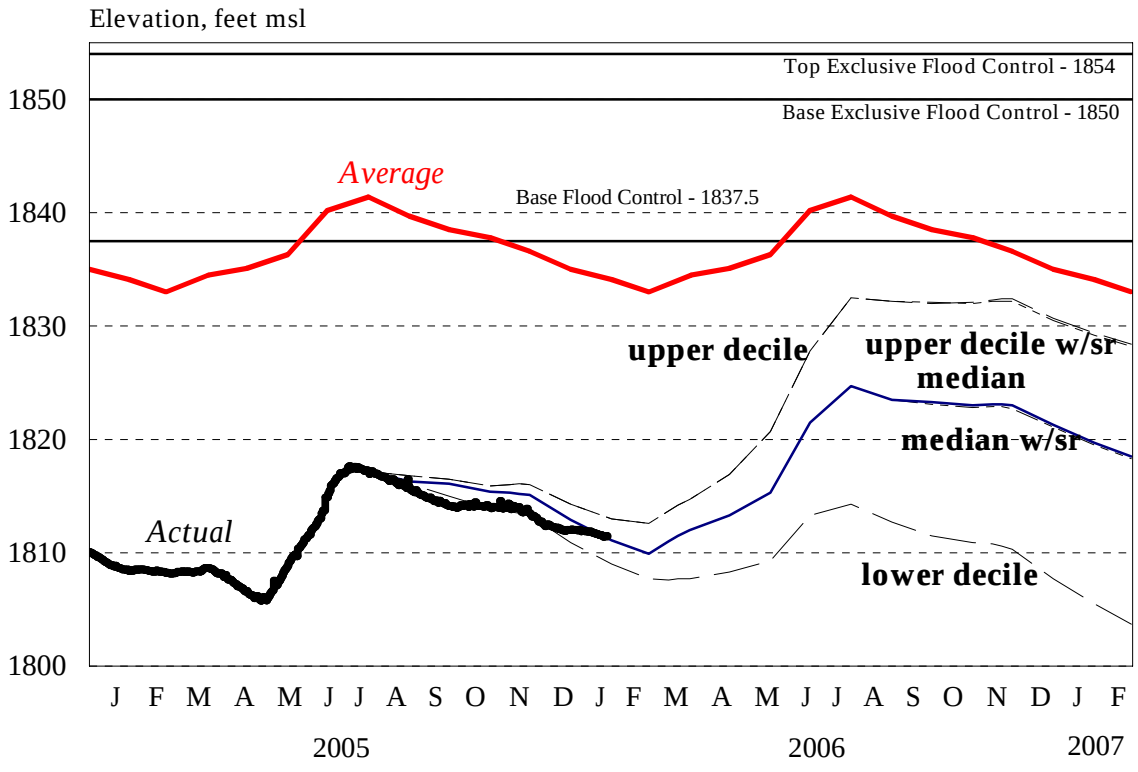
Fort Peck
2005-2006 Final AOP



Average: 1967-2004

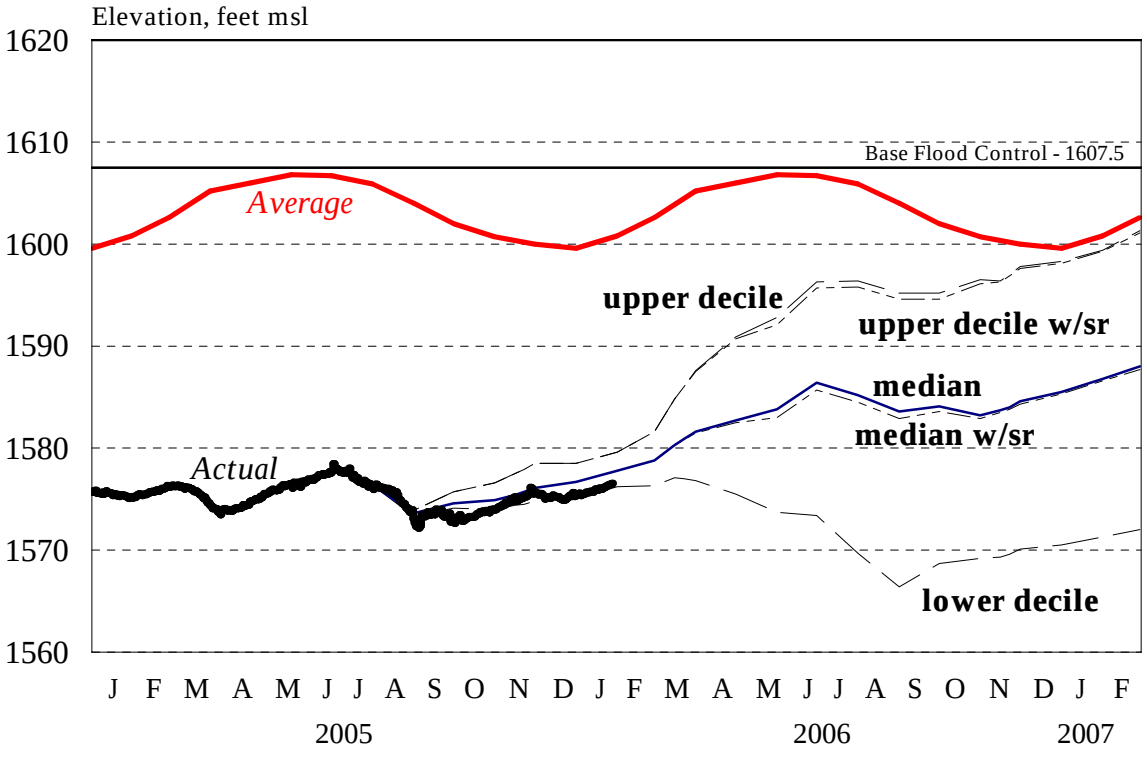
Plate 3

Garrison
2005-2006 Final AOP



Average: 1967-2004

Oahe
2005-2006 Final AOP



Average: 1967-2004

Plate 4

System Storage

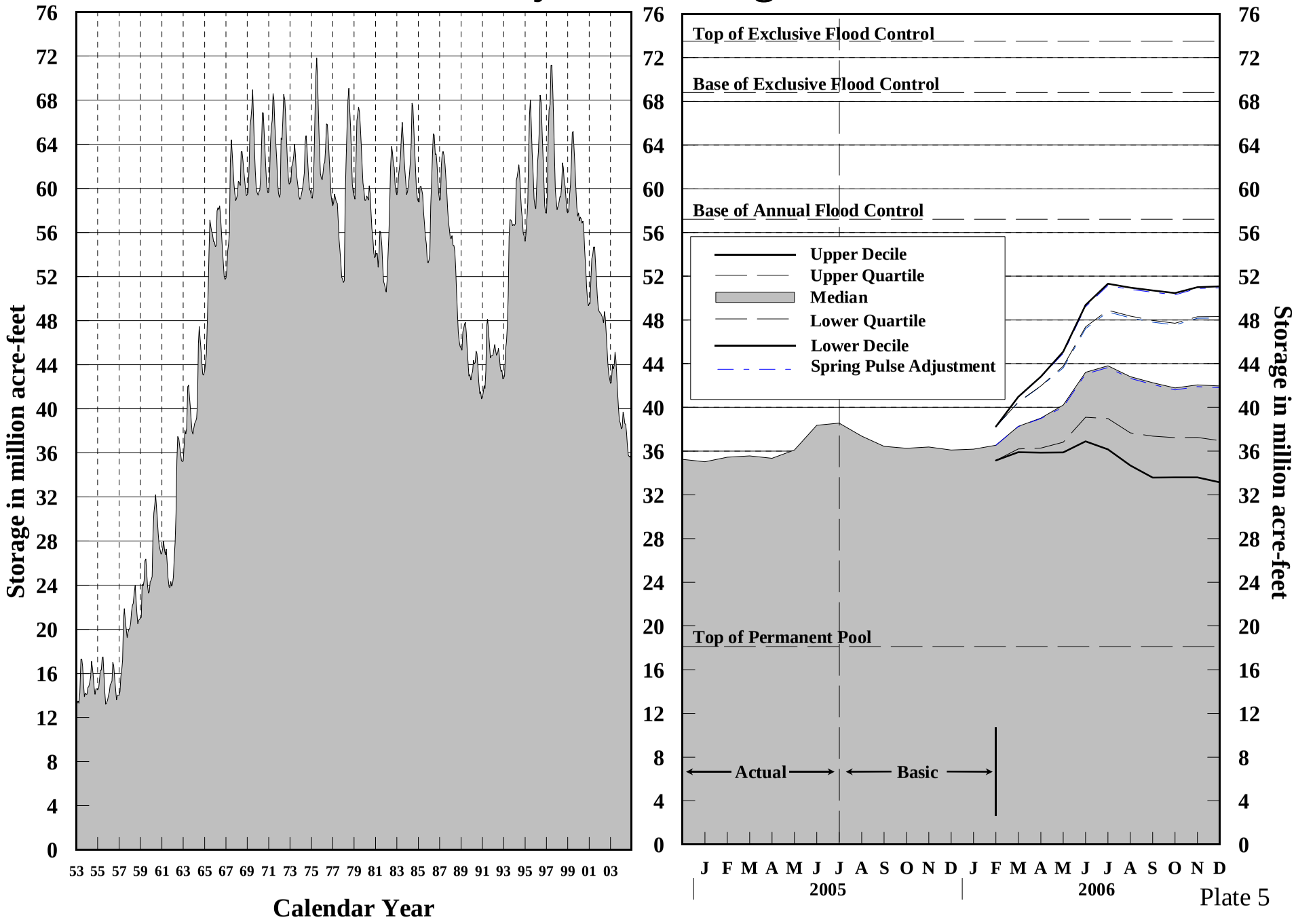


Plate 5

Gavins Point Releases

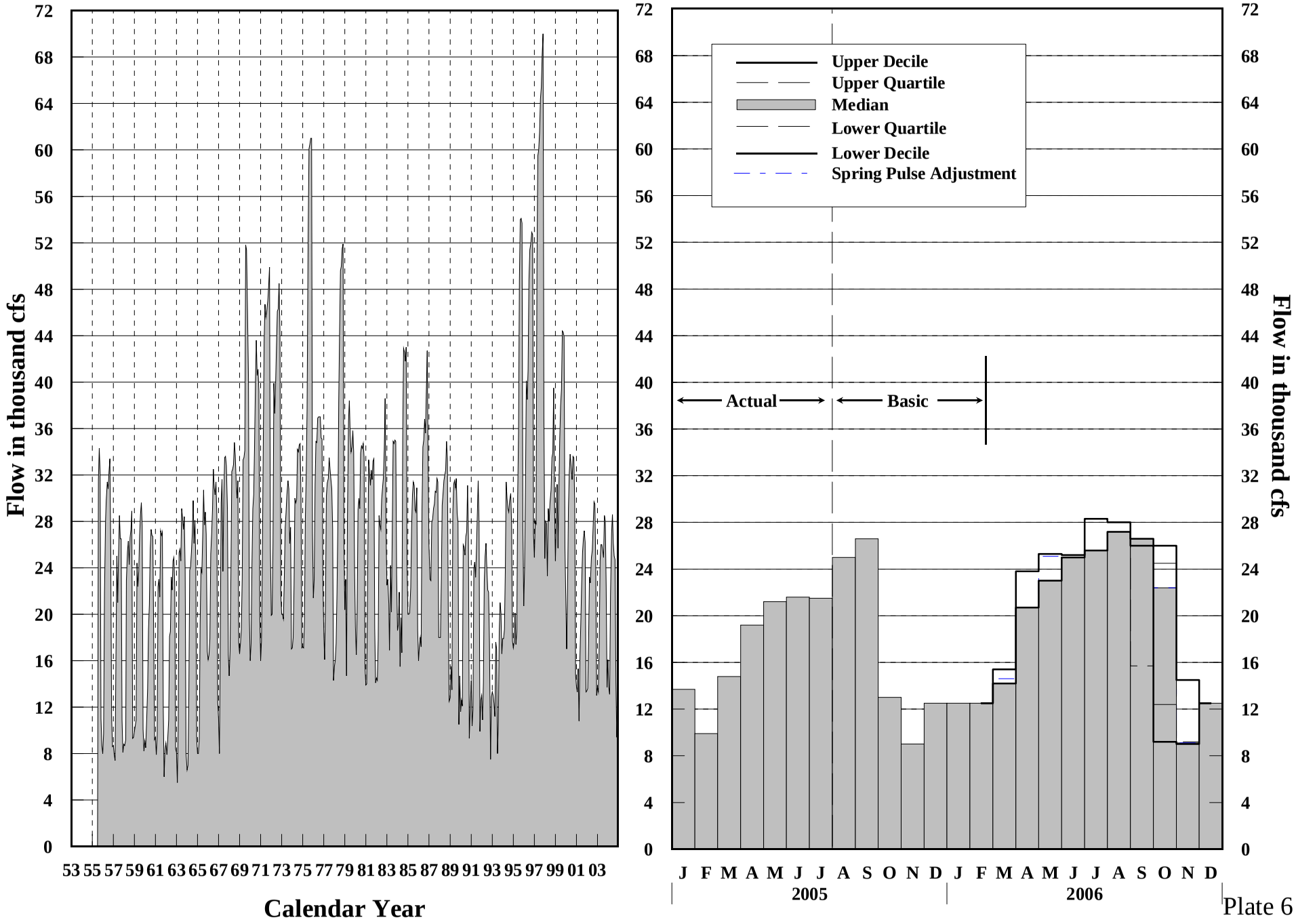
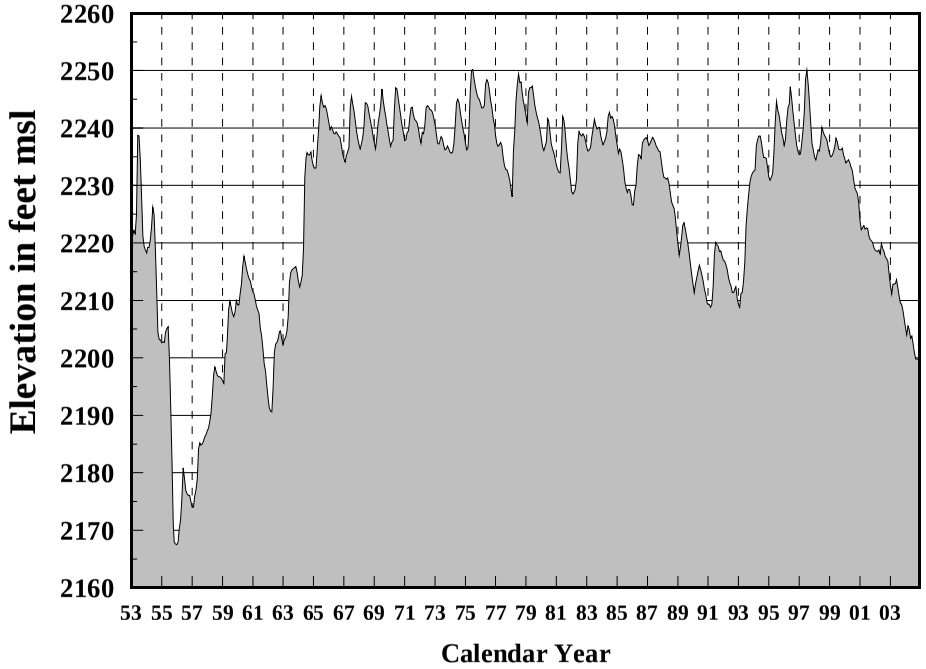
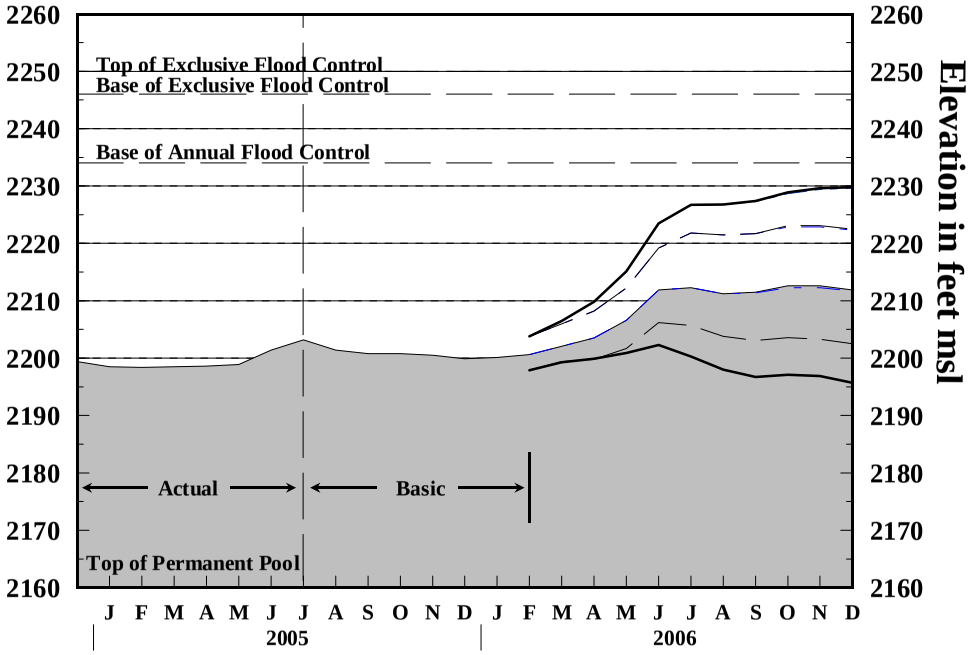
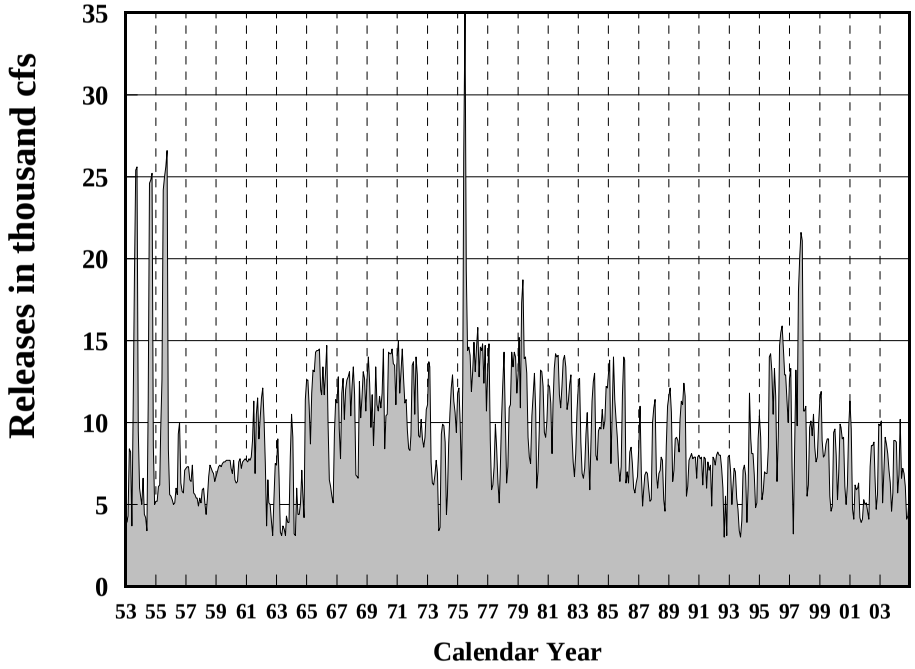


Plate 6

Fort Peck
Elevations and Releases







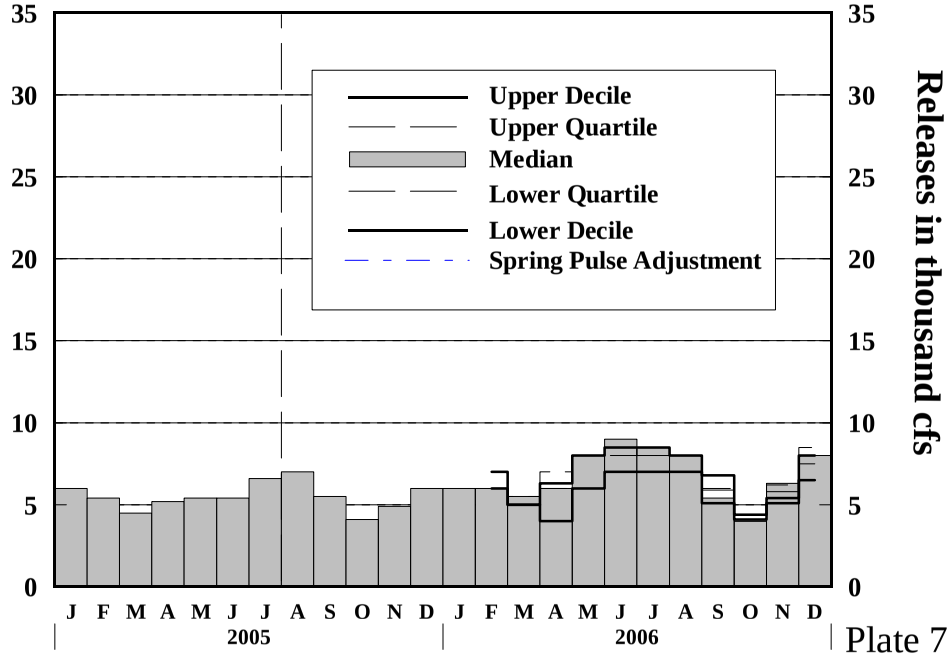
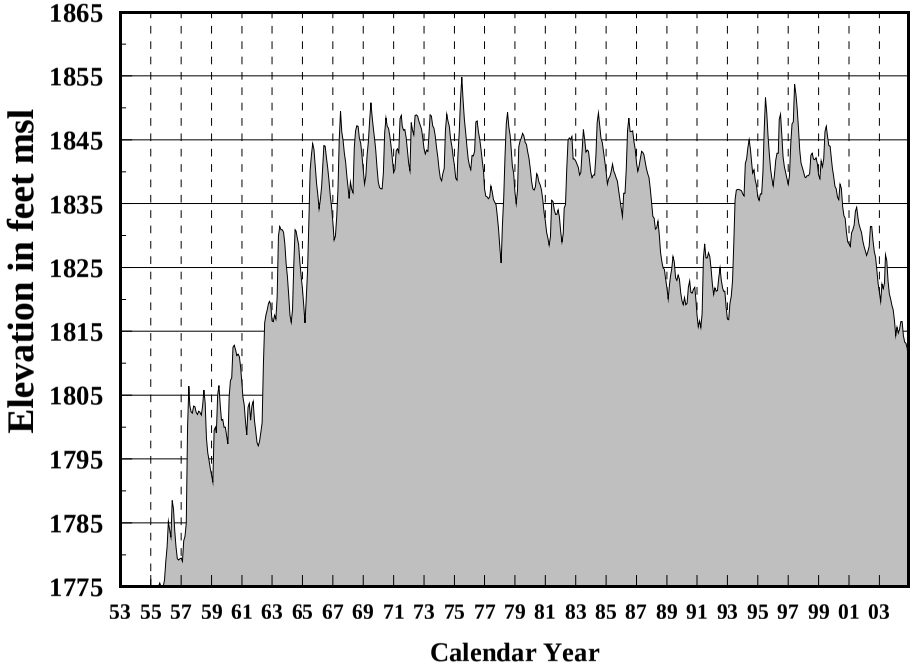
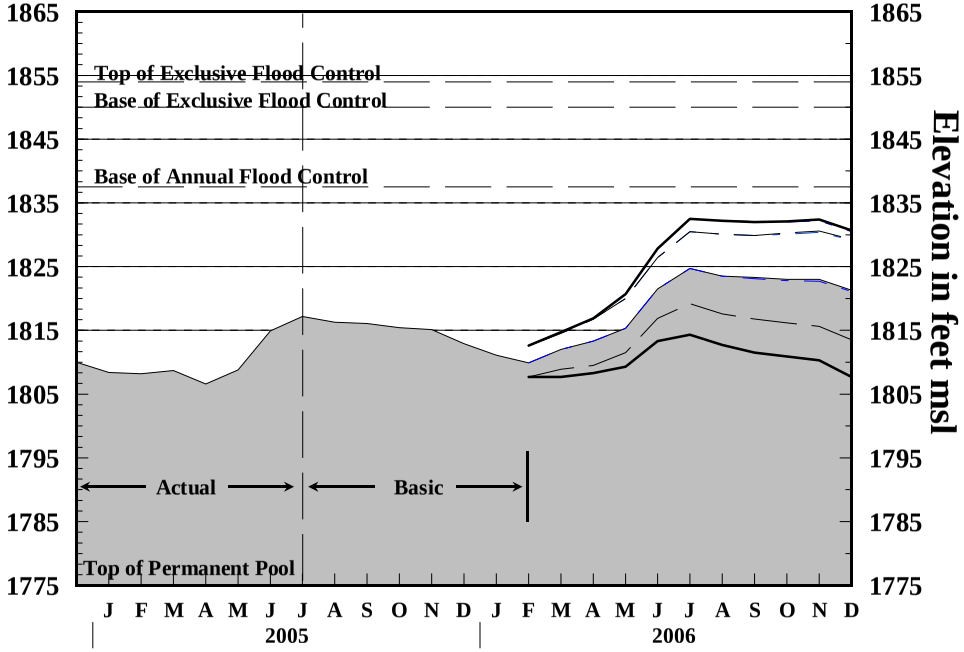
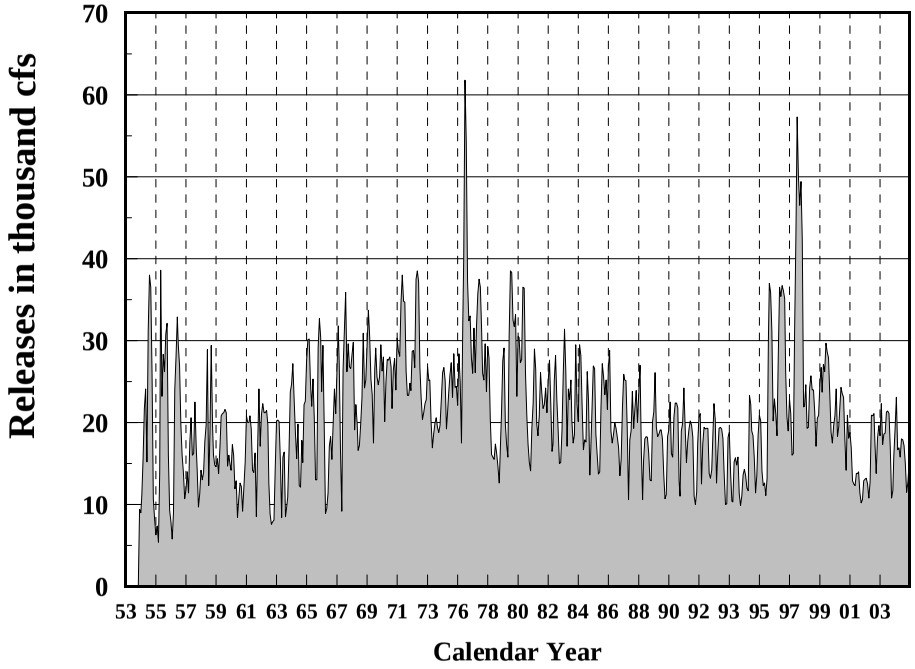


Plate 7

Garrison
Elevations and Releases







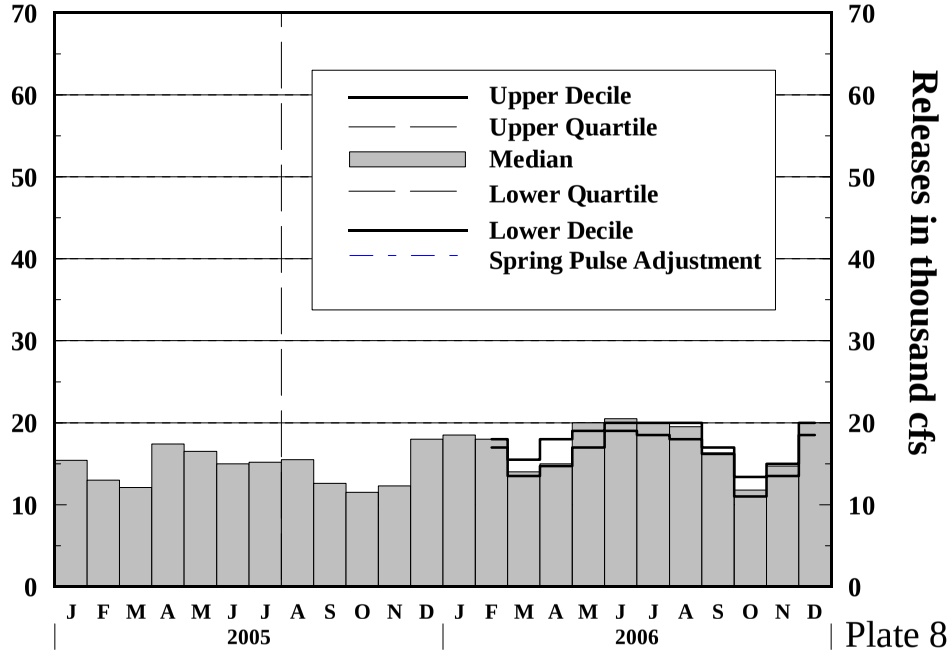
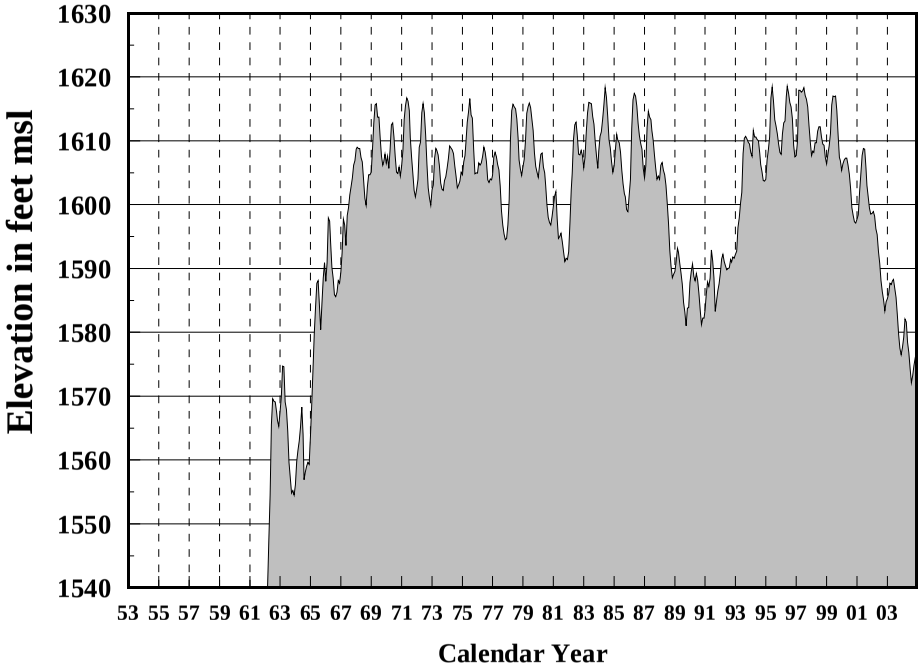
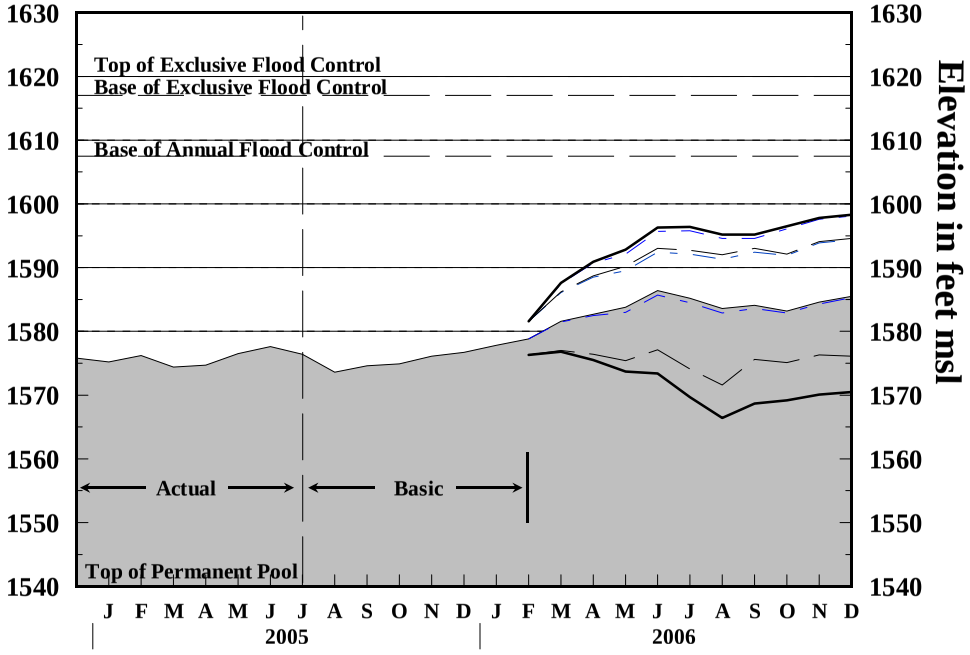


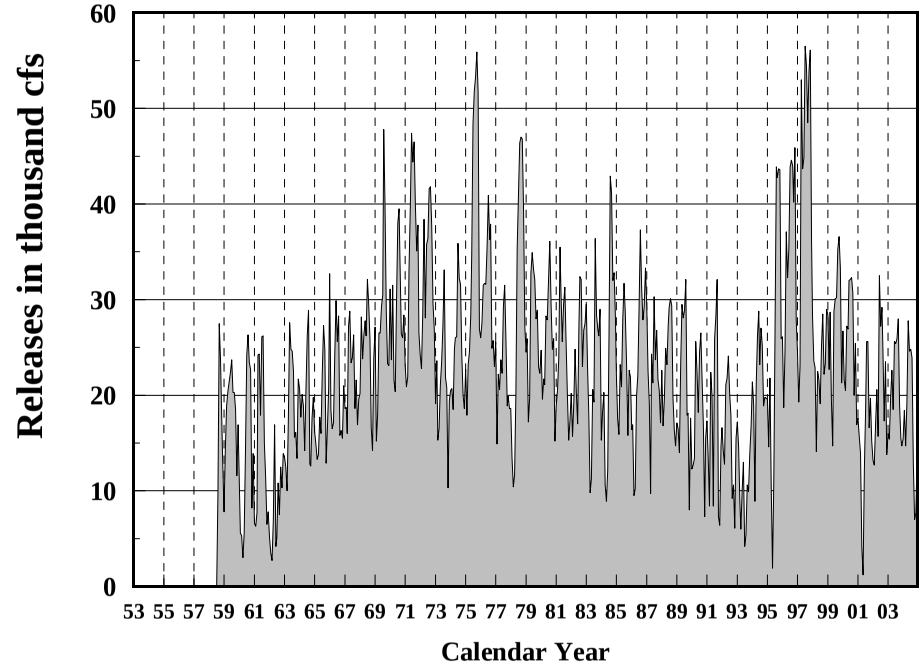
Plate 8

Oahe

Elevations and Releases







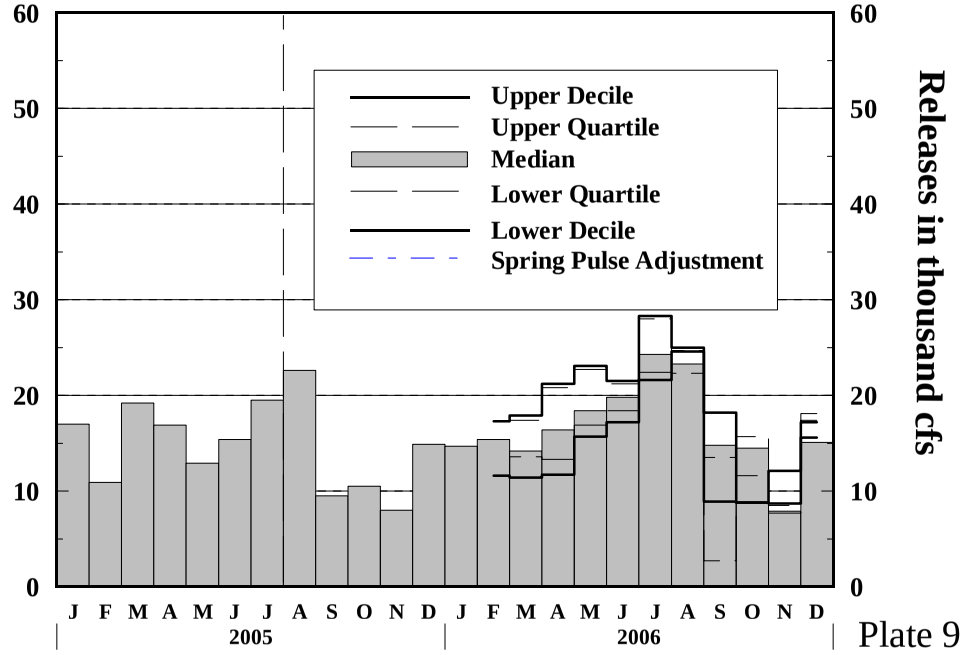
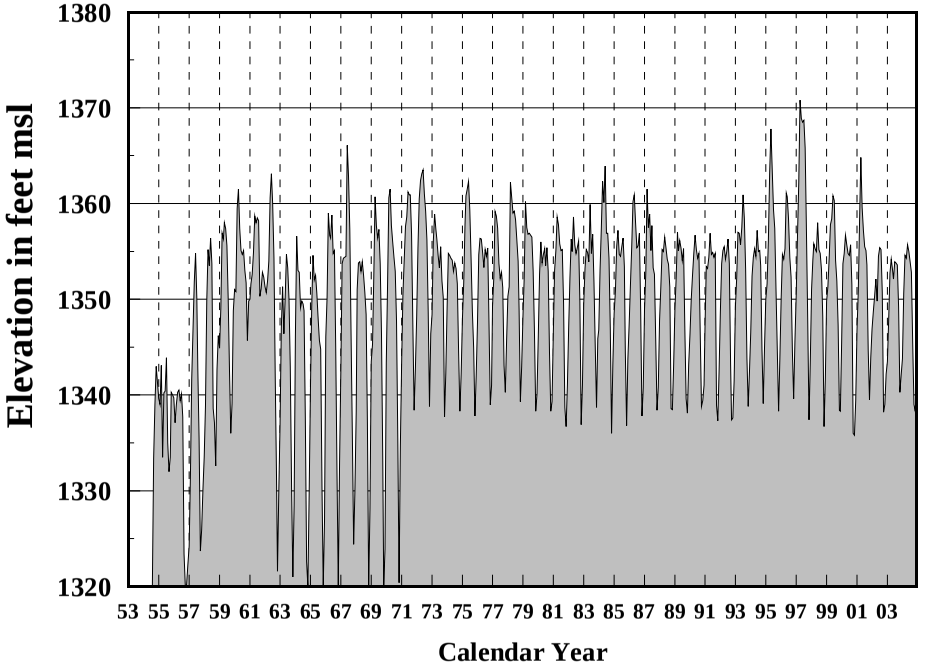
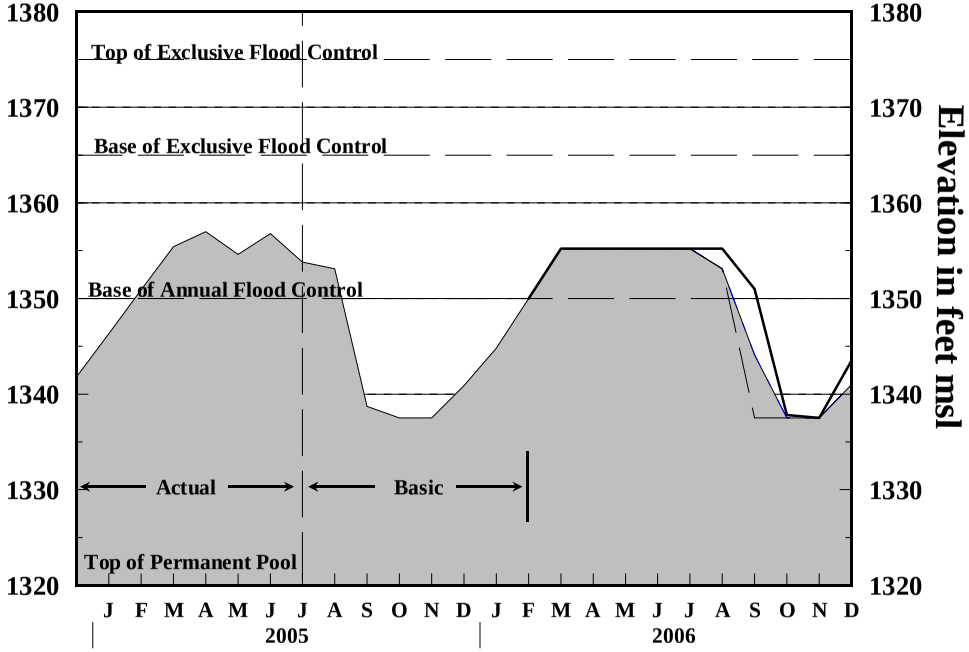
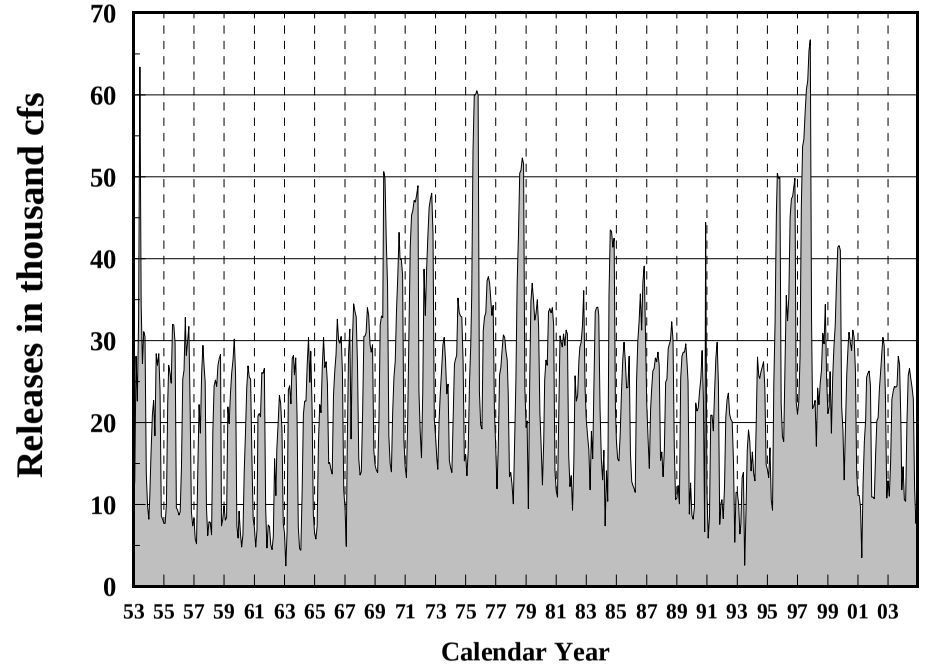


Plate 9

Fort Randall
Elevations and Releases







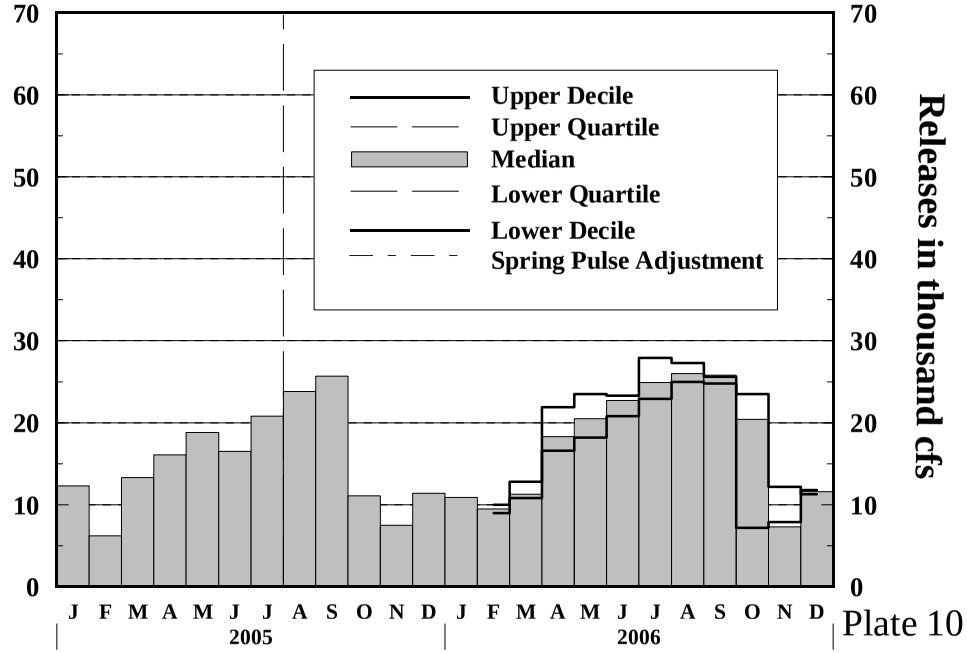
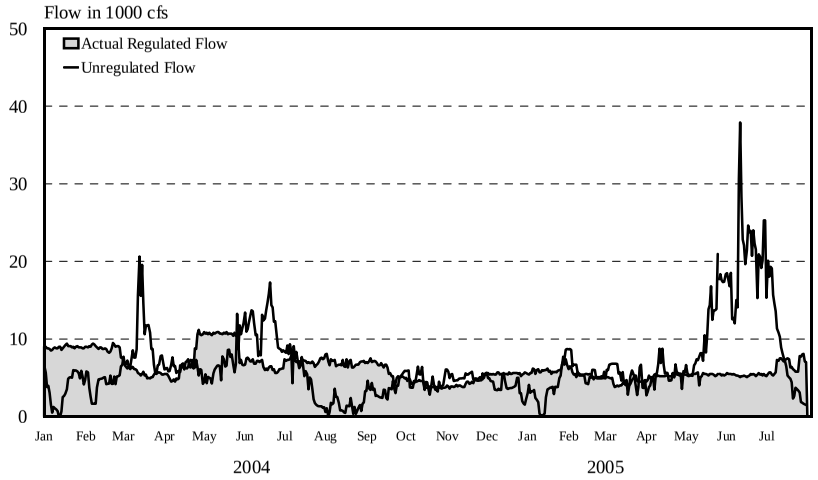


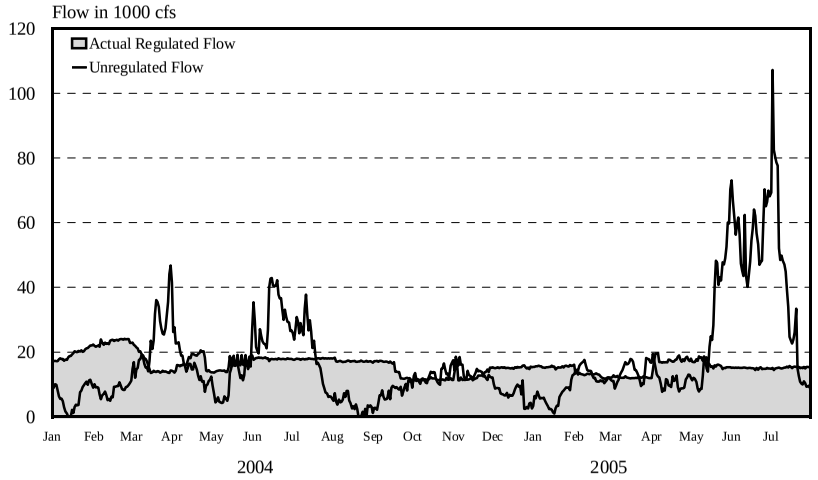
Plate 10

Reservoir Release and Unregulated Flow

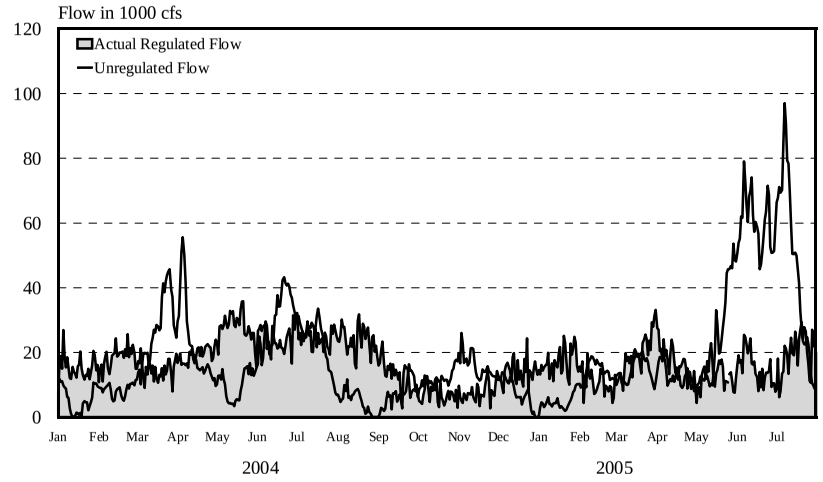
Fort Peck



Garrison



Oahe



Gavins Point

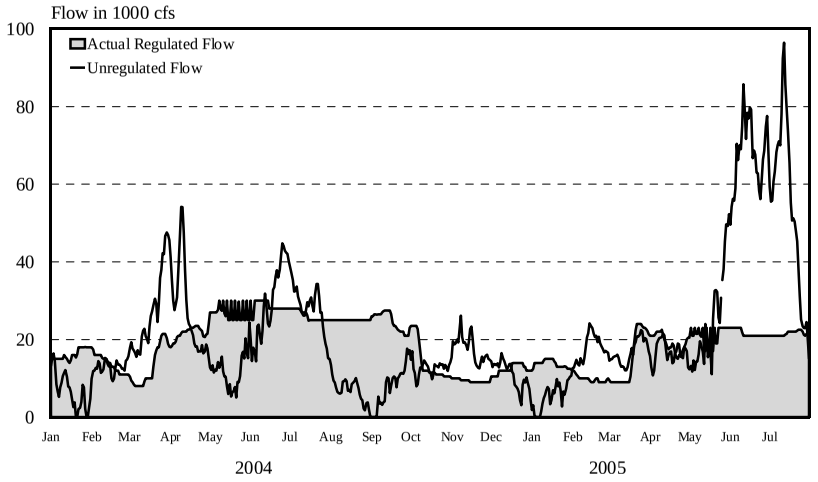


Plate 11

System Gross Capability and Average Monthly Generation

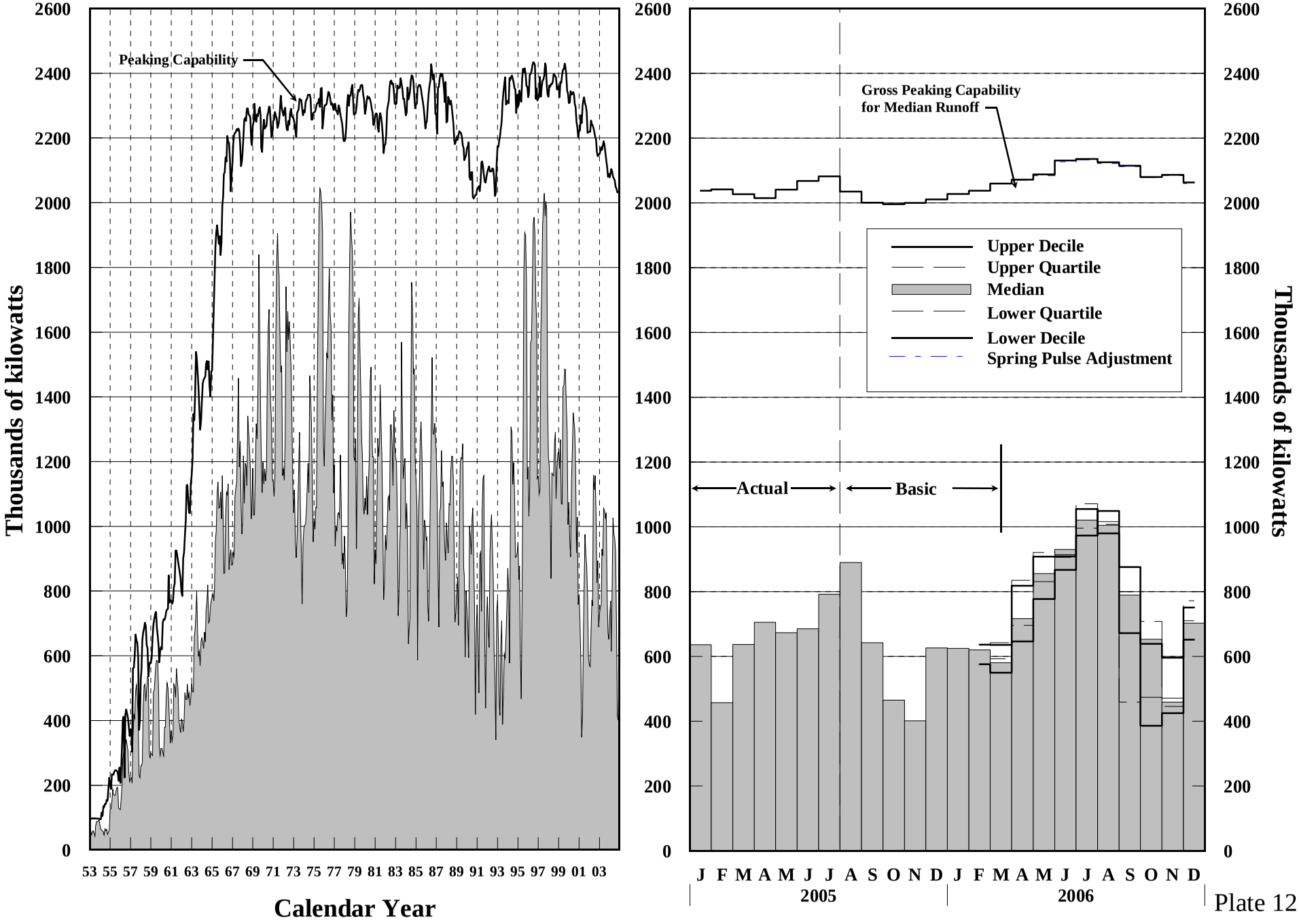


Plate 12

Tentative Five Year Extensions of 2005-2006 AOP

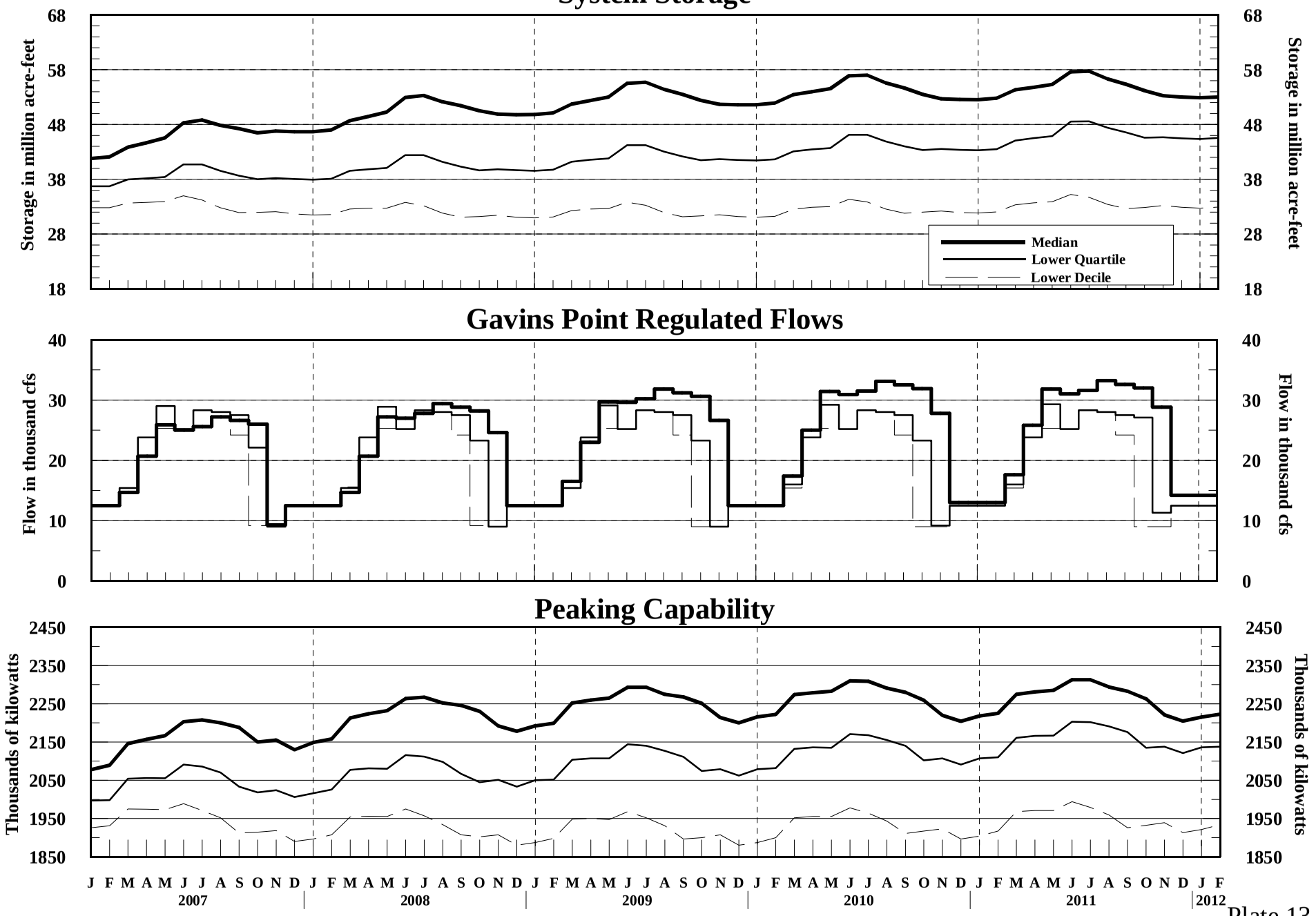


Plate 13

Tentative Five Year Extensions of 2005-2006 AOP

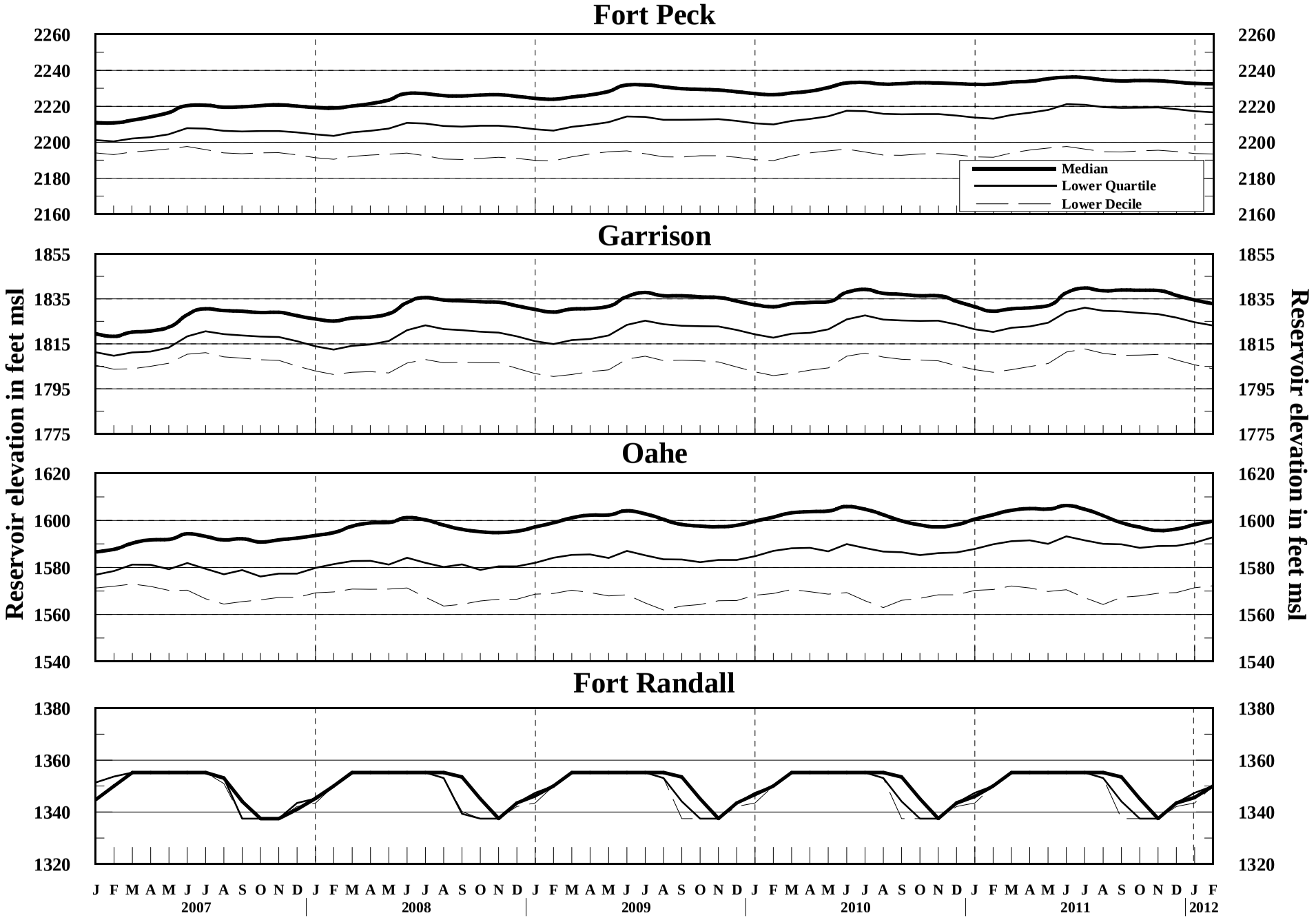
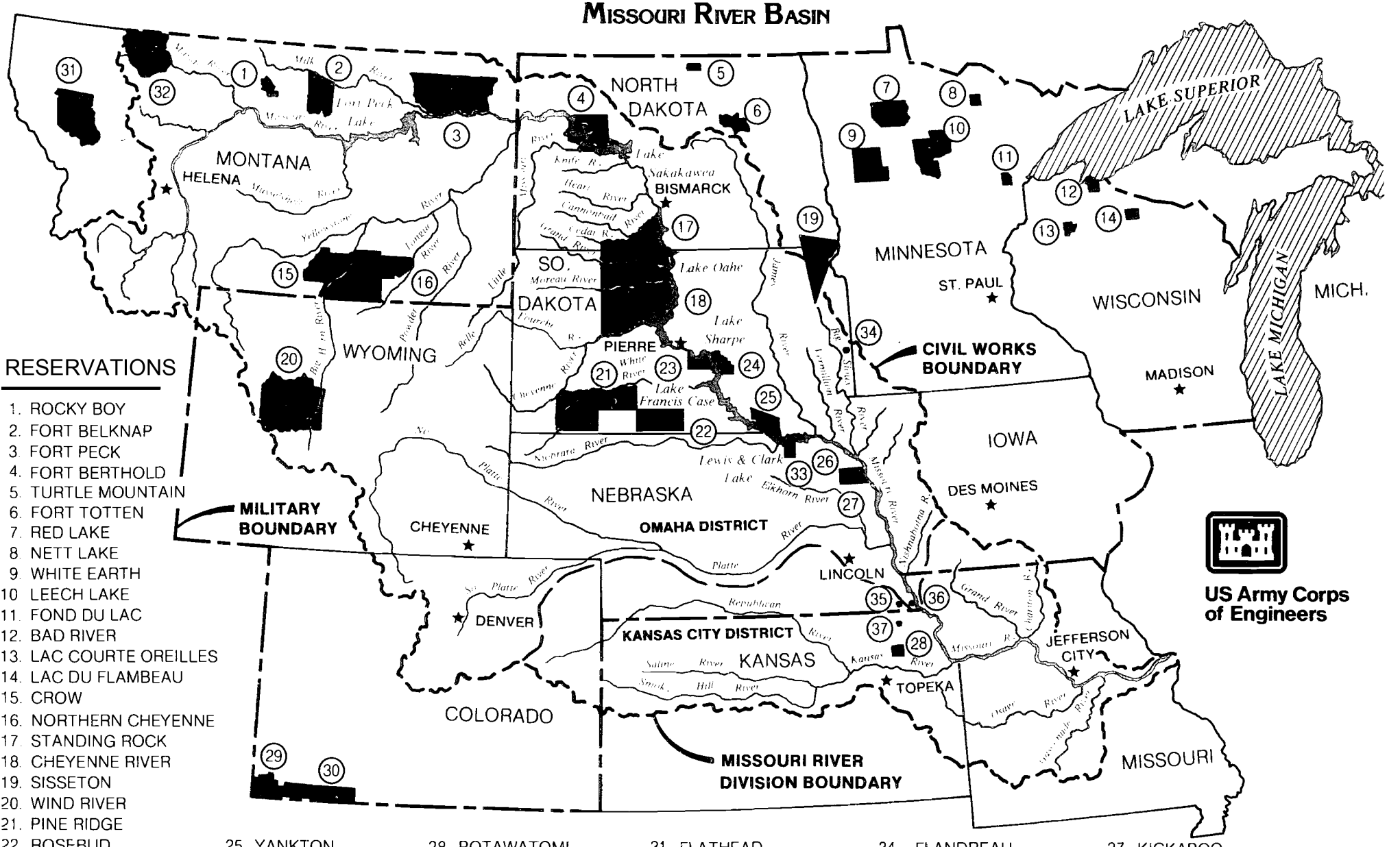


Plate 14

AMERICAN INDIAN RESERVATIONS

MISSOURI RIVER BASIN



US Army Corps of Engineers

RESERVATIONS

1. ROCKY BOY
2. FORT BELKNAP
3. FORT PECK
4. FORT BERTHOLD
5. TURTLE MOUNTAIN
6. FORT TOTTEN
7. RED LAKE
8. NETT LAKE
9. WHITE EARTH
10. LEECH LAKE
11. FOND DU LAC
12. BAD RIVER
13. LAC COURTE OREILLES
14. LAC DU FLAMBEAU
15. CROW
16. NORTHERN CHEYENNE
17. STANDING ROCK
18. CHEYENNE RIVER
19. SISSETON
20. WIND RIVER
21. PINE RIDGE
22. ROSEBUD
23. LOWER BRULE
24. CROW CREEK
25. YANKTON
26. WINNEBAGO
27. OMAHA
28. POTAWATOMI
29. UTE MOUNTAIN
30. SOUTHERN UTE
31. FLATHEAD
32. BLACKFEET
33. SANTEE
34. FLANDREAU
35. IOWA
36. SAC AND FOX
37. KICKAPOO

For illustrative purposes. No legal boundaries are implied.

	31JUl05	2005						2006		
	INI-SUM	31AUG	30SEP	31OCT	15NOV	22NOV	30NOV	31DEC	31JAN	28FEB
--FORT PECK -										
NAT INFLOW	1840	200	200	250	130	61	69	250	315	365
DEPLETION	-444	-33	-107	-76	-18	-8	-10	-73	-74	-45
EVAPORATION	304	62	78	68	31	14	16	35		
MOD INFLOW	1980	171	229	258	117	55	63	288	389	410
RELEASE	2371	430	326	253	134	69	87	369	369	333
STOR CHANGE	-391	-260	-97	6	-16	-15	-25	-81	20	77
STORAGE	9472	9212	9116	9121	9105	9090	9066	8985	9005	9081
ELEV FTMSL	2203.1	2201.4	2200.8	2200.8	2200.7	2200.6	2200.5	2199.9	2200.1	2200.6
DISCH KCFS	6.6	7.0	5.5	4.1	4.5	5.0	5.5	6.0	6.0	6.0
POWER										
AVE POWER MW		83	65	49	53	59	65	71	71	71
PEAK POW MW		129	129	129	129	128	128	128	128	128
ENERGY GWH	339.1	62.0	46.7	36.2	19.2	9.9	12.5	52.6	52.5	47.5
--GARRISON--										
NAT INFLOW	2270	450	350	370	150	70	80	180	260	360
DEPLETION	-421	65	-107	31	-82	-38	-43	-105	-87	-55
CHAN STOR	6	-4	16	15	-4	-5	-5	-5		
EVAPORATION	363	74	93	81	36	17	19	41		
REG INFLOW	4706	737	706	526	325	155	186	607	716	748
RELEASE	6387	953	752	707	342	167	222	1107	1138	1000
STOR CHANGE	-1682	-216	-46	-182	-17	-12	-36	-500	-422	-251
STORAGE	12591	12375	12329	12148	12130	12118	12082	11582	11161	10909
ELEV FTMSL	1817.2	1816.3	1816.1	1815.4	1815.3	1815.2	1815.1	1812.9	1811.1	1809.9
DISCH KCFS	15.2	15.5	12.6	11.5	11.5	12.0	14.0	18.0	18.5	18.0
POWER										
AVE POWER MW		168	137	124	124	129	150	191	194	186
PEAK POW MW		391	390	387	387	387	386	378	371	367
ENERGY GWH	822.8	125.2	98.6	92.4	44.6	21.7	28.9	142.3	144.0	125.1
--OAHE-										
NAT INFLOW	350	50	90	55	28	13	15		10	90
DEPLETION	179	93	24	-7	3	1	1	14	19	31
CHAN STOR	-15	-2	16	6		-3	-11	-21	-3	3
EVAPORATION	302	61	76	67	31	14	16	36		
REG INFLOW	6242	847	758	708	337	161	208	1035	1126	1061
RELEASE	5749	1392	564	645	233	113	128	914	903	857
STOR CHANGE	493	-545	193	63	104	49	80	121	223	205
STORAGE	10958	10413	10607	10670	10774	10823	10903	11024	11247	11451
ELEV FTMSL	1576.4	1573.6	1574.6	1574.9	1575.4	1575.7	1576.1	1576.7	1577.8	1578.8
DISCH KCFS	19.5	22.6	9.5	10.5	7.8	8.1	8.1	14.9	14.7	15.4
POWER										
AVE POWER MW		242	102	113	84	88	87	161	160	169
PEAK POW MW		533	538	540	542	544	546	549	555	560
ENERGY GWH	751.6	180.3	73.1	83.8	30.4	14.7	16.8	119.8	119.0	113.6
--BIG BEND--										
EVAPORATION	97	20	25	22	10	5	5	11		
REG INFLOW	5651	1372	540	623	223	108	123	903	903	857
RELEASE	5717	1438	540	623	223	108	123	903	903	857
STORAGE	1687	1621	1621	1621	1621	1621	1621	1622	1622	1622
ELEV FTMSL	1421.1	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0
DISCH KCFS	15.9	23.4	9.1	10.1	7.5	7.8	7.7	14.7	14.7	15.4
POWER										
AVE POWER MW		111	46	51	38	39	39	74	72	74
PEAK POW MW		518	538	538	538	538	538	538	538	529
ENERGY GWH	339.8	82.3	33.1	38.2	13.7	6.6	7.5	54.8	53.8	49.8
--FORT RANDALL--										
NAT INFLOW	125	5	20	10	5	2	3	10	20	50
DEPLETION	34	15	7	1	1	0	1	3	3	3
EVAPORATION	95	25	26	18	8	4	4	10		
REG INFLOW	5705	1404	518	614	219	106	121	900	920	904
RELEASE	6019	1465	1526	683	220	106	121	701	670	528
STOR CHANGE	-314	-61	-1008	-69	-1	0	0	199	250	376
STORAGE	3436	3375	2367	2298	2297	2297	2297	2496	2746	3122
ELEV FTMSL	1353.9	1353.1	1338.7	1337.5	1337.5	1337.5	1337.5	1340.9	1344.8	1350.0
DISCH KCFS	20.8	23.8	25.7	11.1	7.4	7.6	7.6	11.4	10.9	9.5
POWER										
AVE POWER MW		199	200	82	54	56	56	85	84	76
PEAK POW MW		349	290	285	285	285	285	301	318	339
ENERGY GWH	568.4	147.7	144.1	60.7	19.5	9.4	10.7	63.0	62.2	51.0
--GAVINS POINT--										
NAT INFLOW	695	90	90	100	50	23	27	90	100	125
DEPLETION	28	10	-5	2	5	2	3	10	1	
CHAN STOR	21	-6	-3	27	7	0	0	-7	1	3
EVAPORATION	36	7	9	8	4	2	2	4		
REG INFLOW	6671	1532	1609	799	268	125	143	770	770	655
RELEASE	6689	1537	1583	799	268	125	143	770	770	694
STOR CHANGE	-18	-5	26							-39
STORAGE	376	371	397	397	397	397	397	397	397	358
ELEV FTMSL	1206.7	1206.5	1207.5	1207.5	1207.5	1207.5	1207.5	1207.5	1207.5	1206.0
DISCH KCFS	21.5	25.0	26.6	13.0	9.0	9.0	9.0	12.5	12.5	12.5
POWER										
AVE POWER MW		87	92	46	32	32	32	44	44	44
PEAK POW MW		115	117	117	117	117	117	117	117	114
ENERGY GWH	284.2	64.4	66.6	34.3	11.6	5.4	6.2	33.1	33.1	29.6
--GAVINS POINT - SIOUX CITY--										
NAT INFLOW	540	130	95	75	38	18	20	45	35	85
DEPLETION	114	34	22	9	6	3	3	12	13	13
REGULATED FLOW AT SIOUX CITY										
KAF	7115	1633	1656	865	300	140	160	803	792	766
KCFS		26.6	27.8	14.1	10.1	10.1	10.1	13.1	12.9	13.8
--TOTAL--										
NAT INFLOW	5820	925	845	860	400	187	213	575	740	1075
DEPLETION	-510	184	-166	-40	-86	-40	-46	-139	-125	-53
CHAN STOR	4	-12	20	48	3	-9	-16	-34	-2	5
EVAPORATION	1196	249	307	264	119	56	64	138		
STORAGE	38520	37368	36436	36255	36325	36347	36366	36105	36176	36543
SYSTEM POWER										
AVE POWER MW		890	642	465	386	404	430	626	625	620
PEAK POW MW		2035	2001	1996	1998	1999	2000	2011	2028	2038
ENERGY GWH	3105.9	661.8	462.2	345.7	138.9	67.8	82.5	465.6	464.8	416.7
DAILY GWH		21.3	15.4	11.2	9.3	9.7	10.3	15.0	15.0	14.9

	INI-SUM	31AUG	30SEP	31OCT	15NOV	22NOV	30NOV	31DEC	31JAN	28FEB

	31JUL05		2005						2006	
	INI-SUM	31AUG	30SEP	31OCT	15NOV	22NOV	30NOV	31DEC	31JAN	28FEB
--FORT PECK--										
NAT INFLOW	2208	240	240	300	156	73	83	300	378	438
DEPLETION	-589	9	-66	-34	-47	-22	-25	-137	-155	-113
EVAPORATION	208	47	58	51	12	6	7	27		
MOD INFLOW	2589	184	248	283	190	89	101	410	533	551
RELEASE	2491	430	278	258	149	69	87	400	430	389
STOR CHANGE	98	-246	-31	25	42	19	14	10	103	162
STORAGE	9472	9226	9195	9220	9262	9281	9295	9306	9408	9570
ELEV FTMSL	2203.1	2201.5	2201.3	2201.5	2201.8	2201.9	2202.0	2202.1	2202.7	2203.8
DISCH KCFS	6.6	7.0	4.7	4.2	5.0	5.0	5.5	6.5	7.0	7.0
POWER										
AVE POWER MW		83	56	50	59	59	65	77	83	84
PEAK POW MW		129	129	129	130	130	130	130	131	132
ENERGY GWH	358.7	62.0	40.0	37.1	21.4	10.0	12.6	57.5	62.0	56.2
--GARRISON--										
NAT INFLOW	2724	540	420	444	180	84	96	216	312	432
DEPLETION	-548	47	-114	17	-85	-40	-45	-135	-112	-81
CHAN STOR	-4	-4	25	5	-9		-5	-11	-5	
EVAPORATION	249	56	70	61	15	7	8	32		
REG INFLOW	5510	863	767	629	390	186	215	708	849	902
RELEASE	6596	953	847	769	372	174	238	1107	1138	1000
STOR CHANGE	-1087	-90	-80	-140	19	13	-23	-399	-289	-98
STORAGE	12591	12501	12421	12281	12299	12312	12290	11891	11602	11504
ELEV FTMSL	1817.2	1816.8	1816.5	1815.9	1816.0	1816.1	1816.0	1814.3	1813.0	1812.6
DISCH KCFS	15.2	15.5	14.2	12.5	12.5	12.5	15.0	18.0	18.5	18.0
POWER										
AVE POWER MW		169	155	135	135	135	162	193	196	190
PEAK POW MW		392	391	389	389	390	389	383	379	377
ENERGY GWH	856.5	125.4	111.3	100.7	48.7	22.7	31.1	143.4	145.8	127.4
--OAHE--										
NAT INFLOW	420	60	108	66	33	15	18		12	108
DEPLETION	179	93	24	-7	3	1	1	14	19	31
CHAN STOR	-14	-2	7	9			-13	-16	-3	3
EVAPORATION	209	46	58	52	13	6	7	28		
REG INFLOW	6614	872	880	799	390	182	234	1049	1128	1079
RELEASE	5510	1360	528	607	211	101	119	1049	888	647
STOR CHANGE	1104	-487	352	192	179	81	115	0	240	432
STORAGE	10958	10471	10823	11015	11194	11275	11390	11390	11630	12062
ELEV FTMSL	1576.4	1573.9	1575.7	1576.6	1577.5	1577.9	1578.5	1578.5	1579.6	1581.6
DISCH KCFS	19.5	22.1	8.9	9.9	7.1	7.3	7.5	17.1	14.4	11.6
POWER										
AVE POWER MW		237	95	107	77	80	83	187	159	130
PEAK POW MW		534	544	549	553	555	558	558	565	575
ENERGY GWH	726.4	176.3	68.7	79.6	27.9	13.4	15.9	139.2	118.3	87.2
--BIG BEND--										
EVAPORATION	66	15	19	16	4	2	2	9		
REG INFLOW	5444	1345	509	591	207	99	117	1040	888	647
RELEASE	5510	1411	509	591	207	99	117	1041	888	647
STORAGE	1687	1621	1621	1621	1621	1621	1621	1620	1620	1620
ELEV FTMSL	1421.1	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0
DISCH KCFS	15.9	22.9	8.6	9.6	7.0	7.2	7.4	16.9	14.4	11.6
POWER										
AVE POWER MW		109	43	49	35	36	37	84	70	56
PEAK POW MW		518	538	538	538	538	538	538	538	529
ENERGY GWH	326.4	80.8	31.2	36.2	12.7	6.1	7.2	62.3	52.4	37.6
--FORT RANDALL--										
NAT INFLOW	150	6	24	12	6	3	3	12	24	60
DEPLETION	34	15	7	1	1	0	1	3	3	3
EVAPORATION	66	18	20	14	3	1	2	8		
REG INFLOW	5553	1383	498	588	209	100	118	1043	909	704
RELEASE	5868	1445	1506	660	209	100	114	681	652	500
STOR CHANGE	-315	-61	-1008	-72	0	0	4	362	257	204
STORAGE	3436	3375	2367	2295	2294	2294	2298	2660	2917	3121
ELEV FTMSL	1353.9	1353.1	1338.7	1337.5	1337.4	1337.4	1337.5	1343.5	1347.2	1350.0
DISCH KCFS	20.8	23.5	25.3	10.7	7.0	7.2	7.2	11.1	10.6	9.0
POWER										
AVE POWER MW		196	198	79	52	53	53	83	83	73
PEAK POW MW		349	290	285	285	285	285	313	330	339
ENERGY GWH	557.0	145.7	142.2	58.8	18.6	8.9	10.1	61.9	61.9	48.9
--GAVINS POINT--										
NAT INFLOW	834	108	108	120	60	28	32	108	120	150
DEPLETION	28	10	-5	2	5	2	3	10	1	
CHAN STOR	22	-5	-3	27	7	0	0	-7	1	3
EVAPORATION	24	5	7	6	1	1	1	3		
REG INFLOW	6671	1532	1609	799	270	125	143	769	772	653
RELEASE	6689	1537	1583	799	270	125	143	769	772	692
STOR CHANGE	-18	-5	26							-39
STORAGE	376	371	397	397	397	397	397	397	397	358
ELEV FTMSL	1206.7	1206.5	1207.5	1207.5	1207.5	1207.5	1207.5	1207.5	1207.5	1206.0
DISCH KCFS	21.5	25.0	26.6	13.0	9.1	9.0	9.0	12.5	12.5	12.5
POWER										
AVE POWER MW		87	92	46	32	32	32	44	45	44
PEAK POW MW		115	117	117	117	117	117	117	117	114
ENERGY GWH	284.2	64.4	66.6	34.3	11.6	5.4	6.2	33.0	33.2	29.5
--GAVINS POINT - SIOUX CITY--										
NAT INFLOW	648	156	114	90	45	21	24	54	42	102
DEPLETION	114	34	22	9	6	3	3	12	13	13
REGULATED FLOW AT SIOUX CITY										
KAF	7223	1659	1675	880	309	143	164	811	801	781
KCFS		27.0	28.1	14.3	10.4	10.3	10.3	13.2	13.0	14.1
--TOTAL--										
NAT INFLOW	6984	1110	1014	1032	480	224	256	690	888	1290
DEPLETION	-782	208	-132	-12	-118	-55	-63	-233	-231	-147
CHAN STOR	-5	-11	20	42	-2	0	-19	-34	-7	6
EVAPORATION	821	187	232	200	48	22	26	106		
STORAGE	38520	37564	36824	36829	37068	37180	37291	37263	37575	38236
SYSTEM POWER										
AVE POWER MW		880	639	466	391	396	432	668	636	576
PEAK POW MW		2039	2009	2007	2012	2015	2018	2039	2058	2066
ENERGY GWH	3109.2	654.5	460.0	346.7	140.8	66.5	83.0	497.3	473.5	386.8
DAILY GWH		21.1	15.3	11.2	9.4	9.5	10.4	16.0	15.3	13.8

	31JUL05 INI-SUM	31AUG	2005 30SEP	31OCT	15NOV	22NOV	30NOV	31DEC	31JAN	2006 28FEB
--FORT PECK--										
NAT INFLOW	1472	160	160	200	104	49	55	200	252	292
DEPLETION	-390	4	-79	-53	-27	-12	-14	-82	-76	-51
EVAPORATION	376	77	96	84	38	18	20	43		
MOD INFLOW	1486	79	143	169	93	43	50	239	328	343
RELEASE	2282	430	243	246	119	62	79	369	400	333
STOR CHANGE	-796	-352	-100	-77	-26	-19	-30	-130	-72	10
STORAGE	9472	9120	9020	8944	8918	8898	8869	8738	8667	8676
ELEV FTMSL	2203.1	2200.8	2200.2	2199.7	2199.5	2199.4	2199.2	2198.3	2197.8	2197.9
DISCH KCFS	6.6	7.0	4.1	4.0	4.0	4.5	5.0	6.0	6.5	6.0
POWER										
AVE POWER MW		83	48	47	47	53	59	70	76	70
PEAK POW MW		129	128	127	127	127	127	126	125	125
ENERGY GWH	324.1	61.9	34.7	35.1	16.9	8.9	11.3	52.2	56.3	46.9
--GARRISON--										
NAT INFLOW	1816	360	280	296	120	56	64	144	208	288
DEPLETION	-492	6	-148	-5	-86	-40	-46	-79	-58	-36
CHAN STOR	6	-4	32	1		-5	-5	-11	-6	6
EVAPORATION	451	93	116	100	45	21	24	51		
REG INFLOW	4145	687	586	447	280	132	160	530	660	663
RELEASE	6319	953	846	707	342	160	214	1076	1076	944
STOR CHANGE	-2174	-266	-260	-260	-62	-27	-54	-546	-416	-281
STORAGE	12591	12325	12064	11805	11742	11715	11661	11115	10699	10417
ELEV FTMSL	1817.2	1816.1	1815.0	1813.9	1813.6	1813.5	1813.3	1810.9	1809.0	1807.7
DISCH KCFS	15.2	15.5	14.2	11.5	11.5	11.5	13.5	17.5	17.5	17.0
POWER										
AVE POWER MW		168	153	123	123	122	143	183	180	173
PEAK POW MW		390	386	382	381	380	379	371	364	359
ENERGY GWH	805.9	125.1	110.3	91.6	44.1	20.6	27.5	136.4	134.1	116.2
--OAHE--										
NAT INFLOW	280	40	72	44	22	10	12		8	72
DEPLETION	179	93	24	-7	3	1	1	14	19	31
CHAN STOR	-10	-2	7	15			-11	-22		3
EVAPORATION	376	77	95	84	38	18	20	44		
REG INFLOW	6035	822	806	689	324	151	193	996	1065	988
RELEASE	6045	1424	656	702	248	120	137	940	856	962
STOR CHANGE	-11	-603	150	-13	75	31	57	56	209	26
STORAGE	10958	10355	10506	10493	10569	10599	10656	10712	10922	10947
ELEV FTMSL	1576.4	1573.3	1574.1	1574.0	1574.4	1574.5	1574.8	1575.1	1576.2	1576.3
DISCH KCFS	19.5	23.2	11.0	11.4	8.3	8.7	8.6	15.3	13.9	17.3
POWER										
AVE POWER MW		248	118	122	89	93	93	164	150	187
PEAK POW MW		531	535	535	537	538	539	541	546	547
ENERGY GWH	785.1	184.3	84.7	90.8	32.2	15.6	17.8	122.1	111.7	125.9
--BIG BEND--										
EVAPORATION	121	25	31	27	12	6	7	14		
REG INFLOW	5924	1400	625	675	236	115	130	926	856	962
RELEASE	5989	1466	625	675	236	114	130	925	856	962
STORAGE	1687	1621	1621	1621	1621	1621	1622	1622	1622	1622
ELEV FTMSL	1421.1	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0
DISCH KCFS	15.9	23.8	10.5	11.0	7.9	8.2	8.2	15.1	13.9	17.3
POWER										
AVE POWER MW		113	53	56	40	42	42	76	69	83
PEAK POW MW		518	538	538	538	538	538	538	538	529
ENERGY GWH	356.2	83.9	38.3	41.3	14.5	7.0	8.0	56.2	51.2	55.9
--FORT RANDALL--										
NAT INFLOW	100	4	16	8	4	2	2	8	16	40
DEPLETION	34	15	7	1	1	0	1	3	3	3
EVAPORATION	119	31	33	23	10	5	5	12		
REG INFLOW	5929	1424	594	659	229	111	126	918	869	999
RELEASE	6244	1485	1602	728	230	111	127	719	689	553
STOR CHANGE	-315	-61	-1008	-69	-1	0	0	199	180	446
STORAGE	3436	3375	2366	2297	2297	2296	2296	2495	2675	3121
ELEV FTMSL	1353.9	1353.1	1338.7	1337.5	1337.5	1337.5	1337.5	1340.9	1343.7	1350.0
DISCH KCFS	20.8	24.2	26.9	11.8	7.7	8.0	8.0	11.7	11.2	10.0
POWER										
AVE POWER MW		201	210	87	57	59	58	87	86	79
PEAK POW MW		349	290	285	285	285	285	301	314	339
ENERGY GWH	588.5	149.7	151.1	64.7	20.4	9.9	11.2	64.6	63.6	53.2
--GAVINS POINT--										
NAT INFLOW	556	72	72	80	40	19	21	72	80	100
DEPLETION	28	10	-5	2	5	2	3	10	1	
CHAN STOR	20	-6	-5	28	8	-1	0	-7	1	2
EVAPORATION	45	9	11	10	5	2	2	5		
REG INFLOW	6747	1532	1662	824	268	125	143	769	769	655
RELEASE	6765	1537	1636	824	268	125	143	769	769	694
STOR CHANGE	-18	-5	26							-39
STORAGE	376	371	397	397	397	397	397	397	397	358
ELEV FTMSL	1206.7	1206.5	1207.5	1207.5	1207.5	1207.5	1207.5	1207.5	1207.5	1206.0
DISCH KCFS	21.5	25.0	27.5	13.4	9.0	9.0	9.0	12.5	12.5	12.5
POWER										
AVE POWER MW		87	95	48	32	32	32	44	44	44
PEAK POW MW		115	117	117	117	117	117	117	117	114
ENERGY GWH	287.3	64.4	68.7	35.4	11.6	5.4	6.2	33.1	33.0	29.6
--GAVINS POINT - SIOUX CITY--										
NAT INFLOW	432	104	76	60	30	14	16	36	28	68
DEPLETION	114	34	22	9	6	3	3	12	13	13
REGULATED FLOW AT SIOUX CITY										
KAF	7083	1607	1690	875	292	136	156	793	784	749
KCFS		26.1	28.4	14.2	9.8	9.8	9.8	12.9	12.7	13.5
--TOTAL--										
NAT INFLOW	4656	740	676	688	320	149	171	460	592	860
DEPLETION	-527	162	-179	-53	-99	-46	-53	-122	-98	-40
CHAN STOR	9	-12	26	44	8	-6	-16	-40	-5	11
EVAPORATION	1487	311	382	328	148	69	79	170		
STORAGE	38520	37167	35975	35557	35544	35527	35500	35079	34980	35142
SYSTEM POWER										
AVE POWER MW		899	677	482	388	401	427	624	605	636
PEAK POW MW		2032	1994	1984	1985	1985	1986	1993	2004	2013
ENERGY GWH	3147.1	669.2	487.8	358.9	139.7	67.3	81.9	464.6	450.0	427.7
DAILY GWH		21.6	16.3	11.6	9.3	9.6	10.2	15.0	14.5	15.3

	28FEB06	2006											2007			
	INI-SUM	15MAR	22MAR	31MAR	30APR	31MAY	30JUN	31JUL	31AUG	30SEP	31OCT	15NOV	22NOV	30NOV	31DEC	31JAN	28FEB
--FORT PECK--																	
NAT INFLOW	9600	319	149	192	797	1604	2491	1219	456	379	531	210	98	112	346	297	400
DEPLETION	378	-39	-18	-23	36	340	580	170	-66	-113	-68	-24	-11	-13	-126	-151	-96
EVAPORATION	283							18	58	74	66	16	7	9	35		
MOD INFLOW	8939	358	167	215	761	1264	1911	1031	464	418	533	218	102	116	437	448	496
RELEASE	4173	179	56	71	238	369	417	430	430	302	249	121	83	95	400	400	333
STOR CHANGE	4767	180	112	143	523	895	1494	601	33	116	284	97	18	21	37	48	163
STORAGE	9570	9750	9862	10005	10528	11423	12917	13518	13551	13668	13952	14049	14068	14089	14126	14174	14337
ELEV FTMSL	2203.8	2204.9	2205.6	2206.5	2209.8	2215.1	2223.5	2226.7	2226.8	2227.4	2228.9	2229.4	2229.5	2229.6	2229.8	2230.0	2230.8
DISCH KCFS	7.0	6.0	4.0	4.0	4.0	6.0	7.0	7.0	7.0	5.1	4.1	4.1	6.0	6.0	6.5	6.5	6.0
POWER																	
AVE POWER MW		72	48	49	49	75	91	93	93	68	54	55	81	81	87	88	81
PEAK POW MW		133	134	135	139	145	154	157	157	157	158	159	159	159	159	159	160
ENERGY GWH	662.3	26.0	8.1	10.5	35.4	55.9	65.2	69.0	69.4	48.8	40.5	19.7	13.6	15.5	65.1	65.1	54.4
--GARRISON--																	
NAT INFLOW	14199	515	240	309	1376	1934	3530	2647	841	574	652	260	121	139	278	348	434
DEPLETION	961	-15	-7	-9	6	192	883	513	64	-154	-13	-103	-48	-55	-119	-108	-66
CHAN STOR	11	11	22			-22	-11			20	10	0	-20		-5		5
EVAPORATION	317							21	67	84	73	17	8	9	38		
REG INFLOW	17104	720	325	390	1608	2089	3053	2544	1141	965	851	466	225	279	753	856	838
RELEASE	13143	476	208	268	1071	1168	1190	1230	1230	1012	826	400	208	286	1230	1230	1111
STOR CHANGE	3962	244	117	122	537	921	1863	1314	-89	-46	25	66	16	-6	-476	-374	-272
STORAGE	11504	11749	11866	11988	12525	13446	15308	16623	16534	16488	16513	16579	16595	16589	16113	15738	15466
ELEV FTMSL	1812.6	1813.7	1814.2	1814.7	1816.9	1820.7	1827.8	1832.5	1832.2	1832.0	1832.1	1832.3	1832.4	1832.4	1830.7	1829.4	1828.4
DISCH KCFS	18.0	16.0	15.0	15.0	18.0	19.0	20.0	20.0	20.0	17.0	13.4	13.4	15.0	18.0	20.0	20.0	20.0
POWER																	
AVE POWER MW		169	160	160	194	209	228	237	240	204	162	162	181	217	239	237	235
PEAK POW MW		381	383	385	393	407	433	450	449	448	448	449	449	443	438	435	
ENERGY GWH	1846.1	60.9	26.8	34.6	139.5	155.3	164.1	176.3	178.8	147.2	120.4	58.3	30.4	41.6	177.9	176.2	157.9
--OAHE--																	
NAT INFLOW	3850	559	261	335	474	347	881	297	123	163	102	109	51	58	22	10	59
DEPLETION	613	23	11	14	47	66	129	151	100	25	-8	2	1	1	11	16	26
CHAN STOR	-8	10	5	0	-15	-5	-5			14	16	0	-7	-13	-9		
EVAPORATION	296							20	62	77	68	16	8	9	37		
REG INFLOW	16075	1022	463	589	1484	1445	1937	1356	1191	1086	884	491	244	321	1195	1224	1144
RELEASE	11156	323	173	209	694	967	1024	1325	1511	1085	539	517	80	119	1057	914	619
STOR CHANGE	4920	700	290	380	790	477	914	31	-320	1	345	-26	164	202	138	310	525
STORAGE	12062	12762	13052	13432	14221	14699	15613	15643	15323	15324	15670	15644	15807	16009	16148	16457	16982
ELEV FTMSL	1581.6	1584.8	1586.0	1587.6	1590.9	1592.8	1596.3	1596.4	1595.2	1595.2	1596.5	1596.4	1597.0	1597.8	1598.3	1599.4	1601.3
DISCH KCFS	11.6	10.8	12.5	11.7	11.7	15.7	17.2	21.6	24.6	18.2	8.8	17.4	5.8	7.5	17.2	14.9	11.1
POWER																	
AVE POWER MW		123	143	135	137	187	207	262	297	220	107	211	71	92	211	184	139
PEAK POW MW		592	598	607	623	632	650	650	644	644	651	650	653	657	660	665	675
ENERGY GWH	1630.3	44.1	24.0	29.2	98.4	138.9	149.2	194.8	221.2	158.6	79.3	76.1	11.9	17.7	157.0	136.5	93.4
--BIG BEND--																	
EVAPORATION	71							5	15	19	16	4	2	2	9		
REG INFLOW	11085	323	173	209	694	967	1024	1321	1496	1066	522	513	78	117	1049	914	619
RELEASE	11085	323	173	209	694	967	1024	1321	1496	1066	522	513	78	117	1049	914	619
STORAGE	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620
ELEV FTMSL	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0
DISCH KCFS	11.6	10.8	12.5	11.7	11.7	15.7	17.2	21.5	24.3	17.9	8.5	17.2	5.6	7.4	17.1	14.9	11.1
POWER																	
AVE POWER MW		51	58	55	55	74	81	101	114	85	43	87	29	37	84	72	54
PEAK POW MW		517	509	509	509	509	509	509	509	525	538	538	538	538	538	538	529
ENERGY GWH	641.1	18.5	9.8	11.8	39.3	54.8	58.0	74.8	84.7	61.5	32.0	31.2	4.8	7.2	62.7	53.9	36.0
--FORT RANDALL--																	
NAT INFLOW	1501	190	89	114	298	159	224	111	72	92	60	5	2	3	23	10	49
DEPLETION	80	1	1	1	4	9	12	18	15	7	1	1	0	1	3	3	3
EVAPORATION	78							6	19	23	16	3	1	2	8		
REG INFLOW	12424	511	261	322	988	1117	1236	1408	1535	1128	560	513	80	117	1061	921	665
RELEASE	12421	217	127	322	988	1117	1236	1408	1535	1475	1447	531	80	117	695	664	461
STOR CHANGE	3	294	134					0	0	-347	-887	-18	0	0	366	257	204
STORAGE	3121	3415	3549	3549	3549	3549	3549	3549	3549	3202	2315	2297	2297	2297	2663	2920	3124
ELEV FTMSL	1350.0	1353.6	1355.2	1355.2	1355.2	1355.2	1355.2	1355.2	1355.2	1351.0	1337.8	1337.5	1337.5	1337.5	1343.5	1347.2	1350.0
DISCH KCFS	9.0	7.3	9.2	18.0	16.6	18.2	20.8	22.9	25.0	24.8	23.5	17.8	5.7	7.4	11.3	10.8	8.3
POWER																	
AVE POWER MW		61	78	153	141	154	176	194	211	206	181	130	42	54	85	85	67
PEAK POW MW		351	356	356	356	356	356	356	356	342	286	285	285	285	313	330	339
ENERGY GWH	1230.2	21.9	13.1	33.1	101.5	114.6	126.5	144.0	156.8	148.2	135.0	46.8	7.1	10.4	63.2	63.1	45.1
--GAVINS POINT--																	
NAT INFLOW	2252	107	50	64	246	319	281	211	170	135	157	60	28	32	95	106	191
DEPLETION	114	0	0	0	5	19	24	39	10	-5	2	5	2	3	10	1	
CHAN STOR	0	3	-4	-17	3	-3	-5	-4	-4	0	2	11	22	-3	-7	1	5
EVAPORATION	26							2	5	7	6	1	1	1	3		
REG INFLOW	14533	328	174	370	1232	1414	1488	1574	1685	1609	1599	595	127	143	769	770	657
RELEASE	14533	328	174	370	1232	1414	1488	1574	1672	1583	1599	595	127	143	769	770	696
STOR CHANGE									13	26							-39
STORAGE	358	358	358	358	358	358	358	358	371	397	397	397	397	397	397	397	358
ELEV FTMSL	1206.0	1206.0	1206.0	1206.0	1206.0	1206.0	1206.0	1206.0	1206.5	1207.5	1207.5	1207.5	1207.5	1207.5	1207.5	1207.5	1206.0
DISCH KCFS	12.5	11.0	12.5	20.7	20.7	23.0	25.0	25.6	27.2	26.6	26.0	20.0	9.2	9.0	12.5	12.5	12.5
POWER																	
AVE POWER MW		39	44	71	71	79	86	88	93	92	91	71	33	32	44	44	44
PEAK POW MW		114	114	114	114	114	114	114	115	117	117	117	117	117	78	78	76
ENERGY GWH	610.1	13.9	7.4	15.4	51.4	58.7	61.6	65.1	69.3	66.6	67.8	25.4	5.5	6.2	33.1	33.1	29.7
--GAVINS POINT - SIOUX CITY--																	
NAT INFLOW	3100	195	91	117	1006	553	318	246	184	127	66	26	12	14	30	12	105
DEPLETION	248	6	3	4	20	34	30	37	34	22	9	6	3	3	12	13	13
REGULATED FLOW AT SIOUX CITY																	
KAF	17385	516	262	483	2218	1933	1776	1783	1822	1688	1656	615	137	153	787	769	788
KCFS		17.3	18.9	27.0	37.3	31.4	29.8	29.0	29.6	28.4	26.9	20.7	9.8	9.7	12.8	12.5	14.2
--TOTAL--																	
NAT INFLOW	34502	1885	879	1131	4197	4916	7725	4731	1846	1470	1568	670	312	357	794	783	1238
DEPLETION	2394	-24	-11	-15	118	660	1658	928	157	-218	-77	-114	-53	-61	-209	-226	-120
CHAN STOR	-1	24	23	-17	-12	-29	-20	-4	-4	33	24	10	-3	-17	-21	1	10
EVAPORATION	1071							70	225	283	246	58	27	31	130		
STORAGE	38236	39654	40306	40952	42801	45095	49366	51311	50949	50699	50467	50586	50785	51001	51066	51307	51887
SYSTEM POWER																	
AVE POWER MW		515	531	623	646	777	867	973	1049	876	639	715	436	513	751	710	620
PEAK POW MW		2088	2094	2106	2134	2163	2216	2236	2230	2234	2198	2199	2202	2205	2191	2208	2213
ENERGY GWH	6620.1	185.3	89.3	134.6	465.4	578.3	624.5	724.0	780.3	630.8	475.1	257.5	73.2	98.5	559.0	527.9	416.5
DAILY GWH		12.4	12.8	15.0	15.5	18.7	20.8	23.4	25.2	21.0	15.3	17.2	10.5	12.3	18.0	17.0	14.9

	28FEB05	2006											2007			
	INI-SUM	15MAR	22MAR	31MAR	30APR	31MAY	30JUN	31JUL	31AUG	30SEP	31OCT	15NOV	22NOV	30NOV	31DEC	31JAN	28FEB
--FORT PECK--																	
NAT INFLOW	8901	296	138	178	739	1487	2309	1130	423	351	492	195	91	104	321	276	371
DEPLETION	380	-38	-18	-23	36	340	580	158	-62	-126	-67	-23	-11	-12	-120	-143	-91
EVAPORATION	292							17	55	70	61	28	13	15	32		
MOD INFLOW	8229	334	156	201	703	1147	1729	955	430	407	498	190	89	101	409	419	462
RELEASE	5145	179	69	89	357	492	506	492	492	357	252	146	97	127	523	523	444
STOR CHANGE	3085	156	87	111	346	655	1223	463	-62	50	245	44	-9	-26	-114	-104	18
STORAGE	9570	9726	9813	9924	10270	10925	12148	12611	12549	12600	12845	12889	12881	12855	12741	12637	12655
ELEV FTMSL	2203.8	2204.8	2205.3	2206.0	2208.2	2212.2	2219.2	2221.8	2221.5	2221.7	2223.1	2223.3	2223.3	2223.1	2222.5	2221.9	2222.0
DISCH KCFS	7.0	6.0	5.0	5.0	6.0	8.0	8.5	8.0	8.0	6.0	4.1	4.9	7.0	8.0	8.5	8.5	8.0
POWER																	
AVE POWER MW		72	60	61	73	99	108	104	104	78	54	65	92	105	112	111	105
PEAK POW MW		133	134	135	137	142	150	152	152	152	153	154	154	154	153	152	152
ENERGY GWH	799.9	26.0	10.2	13.1	52.7	73.6	77.7	77.3	77.7	56.5	40.1	23.2	15.5	20.2	83.0	82.8	70.3
--GARRISON--																	
NAT INFLOW	12901	482	225	289	1250	1723	3207	2405	764	522	593	236	110	126	260	316	394
DEPLETION	948	-15	-7	-9	8	210	859	517	72	-129	-13	-111	-52	-59	-132	-116	-75
CHAN STOR	-11	11	11		-11	-22	-5	5		20	19	-8	-22	-10	-5		5
EVAPORATION	343							20	65	82	72	33	15	17	38		
REG INFLOW	16744	686	312	387	1588	1983	2848	2365	1119	946	806	452	222	284	872	955	918
RELEASE	12986	476	208	268	1041	1199	1190	1230	1230	1012	695	387	194	286	1230	1230	1111
STOR CHANGE	3758	210	104	119	547	784	1658	1135	-111	-65	111	65	28	-1	-358	-275	-192
STORAGE	11504	11714	11818	11937	12484	13268	14927	16062	15951	15885	15996	16061	16089	16088	15730	15455	15263
ELEV FTMSL	1812.6	1813.5	1814.0	1814.5	1816.8	1820.0	1826.4	1830.5	1830.1	1829.9	1830.3	1830.5	1830.6	1830.6	1829.3	1828.3	1827.6
DISCH KCFS	18.0	16.0	15.0	15.0	17.5	19.5	20.0	20.0	20.0	17.0	11.3	13.0	14.0	18.0	20.0	20.0	20.0
POWER																	
AVE POWER MW		169	159	160	188	213	226	234	237	202	135	155	167	214	237	235	234
PEAK POW MW		380	382	384	392	404	428	443	441	440	442	443	443	443	438	435	432
ENERGY GWH	1808.4	60.9	26.8	34.5	135.4	158.8	162.9	174.4	176.5	145.2	100.2	55.8	28.1	41.1	176.1	174.8	157.0
--OAHE--																	
NAT INFLOW	3200	460	214	276	394	285	749	246	103	135	85	91	42	48	18	5	49
DEPLETION	613	23	11	14	47	66	129	151	100	25	-8	2	1	1	11	16	26
CHAN STOR	-9	10	5	0	-12	-10	-2			14	26	-8	-5	-18	-9		
EVAPORATION	312							19	59	75	65	30	14	16	35		
REG INFLOW	15252	923	417	530	1376	1408	1808	1306	1174	1061	749	438	217	299	1193	1219	1134
RELEASE	11403	503	86	246	792	1039	1096	1380	1370	804	968	219	112	126	1068	918	677
STOR CHANGE	3849	421	332	284	584	370	712	-74	-196	257	-219	219	106	172	125	301	457
STORAGE	12062	12483	12814	13098	13682	14051	14763	14689	14493	14751	14532	14751	14857	15029	15154	15455	15912
ELEV FTMSL	1581.6	1583.5	1585.0	1586.2	1588.7	1590.2	1593.0	1592.7	1592.0	1593.0	1592.1	1593.0	1593.4	1594.1	1594.6	1595.7	1597.4
DISCH KCFS	11.6	16.9	6.2	13.8	13.3	16.9	18.4	22.4	22.3	13.5	15.7	7.4	8.0	8.0	17.4	14.9	12.2
POWER																	
AVE POWER MW		190	70	158	154	198	218	267	265	161	188	88	96	96	209	180	149
PEAK POW MW		585	593	599	612	620	634	632	628	633	629	633	635	639	641	647	655
ENERGY GWH	1636.8	68.4	11.8	34.1	111.1	147.1	157.1	198.9	196.8	115.9	139.6	31.7	16.2	18.4	155.5	134.3	99.9
--BIG BEND--																	
EVAPORATION	78							5	15	19	16	7	3	4	9		
REG INFLOW	11325	503	86	246	792	1039	1096	1375	1355	785	952	212	108	122	1060	918	677
RELEASE	11325	503	86	246	792	1039	1096	1375	1355	785	952	212	108	122	1060	918	677
STORAGE	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620
ELEV FTMSL	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0
DISCH KCFS	11.6	16.9	6.2	13.8	13.3	16.9	18.4	22.4	22.0	13.2	15.5	7.1	7.8	7.7	17.2	14.9	12.2
POWER																	
AVE POWER MW		79	29	65	62	79	86	105	104	65	78	36	40	39	85	73	58
PEAK POW MW		510	509	509	509	509	509	509	518	538	538	538	538	538	538	538	529
ENERGY GWH	657.5	28.5	4.8	13.9	44.9	58.8	62.1	77.9	77.6	46.9	58.0	13.0	6.6	7.5	63.4	54.2	39.3
--FORT RANDALL--																	
NAT INFLOW	1200	142	66	85	239	150	195	89	65	64	38	3	1	1	18	5	39
DEPLETION	80	1	1	1	4	9	12	18	15	7	1	1	0	1	3	3	3
EVAPORATION	80							6	19	21	15	6	3	3	8		
REG INFLOW	12366	643	151	330	1027	1180	1279	1440	1386	821	974	208	106	120	1067	920	713
RELEASE	12364	232	134	330	1027	1180	1279	1440	1560	1496	1378	208	106	120	701	683	489
STOR CHANGE	3	411	17					0	-174	-675	-403	0	0	0	366	237	224
STORAGE	3121	3532	3549	3549	3549	3549	3549	3549	3375	2700	2297	2297	2297	2297	2663	2900	3124
ELEV FTMSL	1350.0	1355.0	1355.2	1355.2	1355.2	1355.2	1355.2	1355.2	1353.1	1344.1	1337.5	1337.5	1337.5	1337.5	1343.5	1347.0	1350.0
DISCH KCFS	9.0	7.8	9.7	18.5	17.3	19.2	21.5	23.4	25.4	25.1	22.4	7.0	7.6	7.6	11.4	11.1	8.8
POWER																	
AVE POWER MW		65	82	157	146	163	182	198	212	201	167	51	56	55	86	87	71
PEAK POW MW		355	356	356	356	356	356	356	349	315	285	285	285	285	313	328	339
ENERGY GWH	1217.7	23.5	13.8	33.9	105.5	121.0	130.9	147.3	158.0	144.7	124.5	18.5	9.4	10.6	63.7	64.7	47.8
--GAVINS POINT--																	
NAT INFLOW	1899	93	44	56	207	257	237	178	144	114	132	51	24	27	86	89	161
DEPLETION	114	0	0	0	5	19	24	39	10	-5	2	5	2	3	10	1	
CHAN STOR	-1	2	-4	-17	2	-4	-4	-4	-4	0	5	29	-1	0	-7	1	4
EVAPORATION	28							2	5	7	6	3	1	1	3		
REG INFLOW	14119	328	174	370	1232	1414	1488	1574	1685	1609	1506	279	125	143	767	771	654
RELEASE	14119	328	174	370	1232	1414	1488	1574	1672	1583	1506	279	125	143	767	771	693
STOR CHANGE									13	26							-39
STORAGE	358	358	358	358	358	358	358	358	371	397	397	397	397	397	397	397	358
ELEV FTMSL	1206.0	1206.0	1206.0	1206.0	1206.0	1206.0	1206.0	1206.0	1206.5	1207.5	1207.5	1207.5	1207.5	1207.5	1207.5	1207.5	1206.0
DISCH KCFS	12.5	11.0	12.6	20.7	20.7	23.0	25.0	25.6	27.2	26.6	24.5	9.4	9.0	9.0	12.5	12.5	12.5
POWER																	
AVE POWER MW		39	44	71	71	79	86	88	93	92	86	33	32	32	44	45	44
PEAK POW MW		114	114	114	114	114	114	114	115	117	117	117	117	117	78	78	76
ENERGY GWH	592.7	13.9	7.4	15.4	51.4	58.7	61.6	65.1	69.3	66.6	64.0	12.0	5.4	6.2	33.0	33.1	29.6
--GAVINS POINT - SIOUX CITY--																	
NAT INFLOW	2500	181	85	109	811	406	252	199	148	97	53	21	10	11	24	10	84
DEPLETION	248	6	3	4	20	34	30	37	34	22	9	6	3	3	12	13	13
REGULATED FLOW AT SIOUX CITY																	
KAF	16371	503	256	475	2023	1786	1710	1736	1786	1658	1550	294	132	151	779	768	764
KCFS		16.9	18.4	26.6	34.0	29.0	28.7	28.2	29.1	27.9	25.2	9.9	9.5	9.5	12.7	12.5	13.8
--TOTAL--																	
NAT INFLOW	30601	1654	772	992	3640	4308	6949	4247	1647	1283	1393	595	278	317	727	701	1098
DEPLETION	2383	-23	-11	-14	120	678	1634	920	169	-206	-76	-121	-56	-65	-216	-226	-124
CHAN STOR	-19	24	12	-17	-21	-35	-12	2	-4	35	51	13	-27	-28	-21	1	9
EVAPORATION	1132							68	218	273	236	106	50	57	124		
STORAGE	38236	39434	39973	40487	41964	43772	47366	48890	48360	47953	47687	48015	48140	48286	48305	48464	48932
SYSTEM POWER																	
AVE POWER MW		614	445	671	696	831	906	996	1016	800	708	428	483	542	772	731	660
PEAK POW MW		2079	2088	2097	2121	2145	2190	2206	2204	2196	2164	2170	2172	2175	2161	2178	2183
ENERGY GWH	6713.1	221.2	74.8	145.0	501.0	618.1	652.3	740.9	755.9	575.8	526.5	154.2	81.2	104.0	574.6	543.8	443.8
DAILY GWH		14.7	10.7	16.1	16.7	19.9	21.7	23.9	24.4	19.2	17.0	10.3	11.6	13.0	18.5	17.5	15.9

	28FEB06	2006											2007			
	INI-SUM	15MAR	22MAR	31MAR	30APR	31MAY	30JUN	31JUL	31AUG	30SEP	31OCT	15NOV	22NOV	30NOV	31DEC	31JAN	28FEB
--FORT PECK--																	
NAT INFLOW	7400	264	123	158	628	1210	1851	829	324	319	398	188	88	100	310	261	349
DEPLETION	230	-7	-3	-4	55	230	443	225	-60	-138	-105	-33	-15	-18	-112	-134	-93
EVAPORATION	356							21	68	85	75	34	16	18	39		
MOD INFLOW	6814	272	127	163	573	980	1408	583	316	372	428	186	87	99	383	395	442
RELEASE	5159	179	69	89	357	492	536	523	492	317	246	149	97	127	492	523	472
STOR CHANGE	1655	93	57	74	216	488	872	60	-175	54	182	38	-10	-27	-109	-128	-30
STORAGE	9081	9174	9232	9305	9521	10009	10882	10942	10766	10821	11003	11041	11030	11003	10894	10766	10736
ELEV FTMSL	2200.6	2201.2	2201.6	2202.1	2203.5	2206.6	2211.9	2212.3	2211.2	2211.5	2212.6	2212.8	2212.8	2212.6	2212.0	2211.2	2211.0
DISCH KCFS	6.0	6.0	5.0	5.0	6.0	8.0	9.0	8.5	8.0	5.3	4.0	5.0	7.0	8.0	8.0	8.5	8.5
POWER																	
AVE POWER MW		71	59	59	72	96	111	106	100	67	50	63	88	100	100	106	106
PEAK POW MW		129	130	130	132	135	141	142	140	141	142	142	142	142	141	140	140
ENERGY GWH	770.5	25.5	10.0	12.8	51.6	71.7	79.7	78.9	74.2	47.9	37.3	22.6	14.8	19.2	74.4	78.7	71.0
--GARRISON--																	
NAT INFLOW	11001	469	219	282	853	1423	2958	2066	581	497	454	192	89	102	253	237	326
DEPLETION	883	-2	-1	-1	10	197	739	530	87	-157	-36	-110	-51	-58	-116	-92	-56
CHAN STOR	-28		11		-11	-22	-11	5	5	28	14	-11	-21	-11		-5	0
EVAPORATION	418							25	80	101	88	40	19	21	46		
REG INFLOW	14831	650	300	372	1189	1696	2744	2039	911	899	662	400	198	256	815	846	854
RELEASE	12829	417	194	250	893	1230	1220	1230	1199	969	727	378	208	286	1230	1261	1139
STOR CHANGE	2003	233	106	122	296	466	1524	809	-288	-70	-64	22	-10	-30	-414	-414	-284
STORAGE	10909	11143	11249	11371	11667	12133	13657	14466	14178	14108	14043	14065	14055	14025	13611	13197	12912
ELEV FTMSL	1809.9	1811.0	1811.5	1812.0	1813.3	1815.3	1821.5	1824.7	1823.5	1823.3	1823.0	1823.1	1823.1	1823.0	1821.3	1819.7	1818.5
DISCH KCFS	18.0	14.0	14.0	14.0	15.0	20.0	20.5	20.0	19.5	16.3	11.8	12.7	15.0	18.0	20.0	20.5	20.5
POWER																	
AVE POWER MW		145	146	147	158	213	224	226	222	185	134	144	170	204	225	228	225
PEAK POW MW		371	373	375	380	387	410	421	417	416	415	415	415	415	409	403	399
ENERGY GWH	1716.2	52.3	24.6	31.7	113.9	158.2	161.5	168.2	165.2	133.2	100.0	51.9	28.6	39.1	167.1	169.3	151.5
--OAHE--																	
NAT INFLOW	2300	317	148	190	364	236	689	162	33	118	14	5	2	3	-20		40
DEPLETION	613	23	11	14	47	66	129	151	100	25	-8	2	1	1	11	16	26
CHAN STOR	-12	21			-5	-25	-3	2	2	16	22	-4	-12	-15	-10	-2	
EVAPORATION	369							23	70	88	77	35	16	19	41		
REG INFLOW	14135	731	331	426	1204	1374	1777	1221	1064	990	694	342	182	254	1148	1242	1153
RELEASE	12082	404	212	258	977	1133	1177	1492	1430	878	893	226	115	130	931	942	886
STOR CHANGE	2053	327	120	168	227	242	601	-271	-366	112	-199	117	67	124	217	300	267
STORAGE	11451	11778	11898	12065	12293	12535	13135	12864	12498	12611	12412	12529	12596	12720	12937	13237	13504
ELEV FTMSL	1578.8	1580.3	1580.9	1581.6	1582.7	1583.8	1586.4	1585.2	1583.6	1584.1	1583.2	1583.7	1584.0	1584.6	1585.5	1586.8	1587.9
DISCH KCFS	15.4	13.6	15.3	14.5	16.4	18.4	19.8	24.3	23.3	14.8	14.5	7.6	8.3	8.2	15.1	15.3	15.9
POWER																	
AVE POWER MW		150	170	162	184	208	225	277	264	167	164	86	94	93	173	176	185
PEAK POW MW		568	571	575	581	586	600	594	585	588	583	586	588	590	596	602	608
ENERGY GWH	1660.5	54.1	28.5	34.9	132.6	154.6	162.3	206.3	196.2	120.5	122.4	31.0	15.8	17.9	128.6	131.0	124.0
--BIG BEND--																	
EVAPORATION	103							6	20	25	22	10	5	5	11		
REG INFLOW	11978	404	212	258	977	1133	1177	1486	1410	853	871	216	110	125	919	942	886
RELEASE	11978	404	212	258	977	1133	1177	1486	1410	853	871	216	110	125	919	942	886
STORAGE	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622
ELEV FTMSL	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0
DISCH KCFS	15.4	13.6	15.3	14.5	16.4	18.4	19.8	24.2	22.9	14.3	14.2	7.3	8.0	7.9	14.9	15.3	15.9
POWER																	
AVE POWER MW		64	71	68	77	86	93	113	108	71	71	37	40	40	75	75	77
PEAK POW MW		517	509	509	509	509	509	509	518	538	538	538	538	538	538	538	529
ENERGY GWH	696.1	23.2	12.0	14.6	55.4	64.2	66.7	84.2	80.7	51.0	53.2	13.2	6.8	7.7	55.8	56.1	51.4
--FORT RANDALL--																	
NAT INFLOW	900	122	57	73	115	140	185	74	57	42	2	2	1	1	10		19
DEPLETION	80	1	1	1	4	9	12	18	15	7	1	1	0	1	3	3	3
EVAPORATION	107							8	25	28	20	8	4	4	10		
REG INFLOW	12692	525	268	331	1088	1264	1350	1534	1427	860	852	209	107	121	916	939	902
RELEASE	12691	232	134	331	1088	1264	1350	1534	1601	1535	1256	209	107	121	713	689	528
STOR CHANGE	2	293	134					0	-174	-675	-403	0	0	0	203	250	374
STORAGE	3122	3415	3549	3549	3549	3549	3549	3549	3375	2700	2297	2297	2296	2296	2499	2749	3123
ELEV FTMSL	1350.0	1353.6	1355.2	1355.2	1355.2	1355.2	1355.2	1355.2	1353.1	1344.1	1337.5	1337.5	1337.5	1337.5	1341.0	1344.8	1350.0
DISCH KCFS	9.5	7.8	9.7	18.5	18.3	20.5	22.7	24.9	26.0	25.8	20.4	7.0	7.7	7.6	11.6	11.2	9.5
POWER																	
AVE POWER MW		65	82	157	155	174	192	211	218	206	153	52	56	56	86	86	76
PEAK POW MW		351	356	356	356	356	356	356	349	315	285	285	285	285	301	319	339
ENERGY GWH	1248.8	23.3	13.8	33.9	111.6	129.4	138.1	156.7	162.1	148.4	113.6	18.6	9.5	10.7	64.1	64.0	51.1
--GAVINS POINT--																	
NAT INFLOW	1450	92	43	55	148	174	166	86	103	77	122	50	23	27	77	79	127
DEPLETION	114	0	0	0	5	19	24	39	10	-5	2	5	2	3	10	1	
CHAN STOR	-1	3	-4	-17	0	-4	-4	-4	-2	0	10	25	-1	0	-7	1	3
EVAPORATION	38							2	7	9	8	4	2	2	4		
REG INFLOW	13988	328	174	370	1232	1414	1488	1574	1685	1609	1377	275	125	143	769	767	658
RELEASE	13988	328	174	370	1232	1414	1488	1574	1672	1583	1377	275	125	143	769	767	697
STOR CHANGE									13	26							-39
STORAGE	358	358	358	358	358	358	358	358	371	397	397	397	397	397	397	397	358
ELEV FTMSL	1206.0	1206.0	1206.0	1206.0	1206.0	1206.0	1206.0	1206.0	1206.5	1207.5	1207.5	1207.5	1207.5	1207.5	1207.5	1207.5	1206.0
DISCH KCFS	12.5	11.0	12.5	20.7	20.7	23.0	25.0	25.6	27.2	26.6	22.4	9.2	9.0	9.0	12.5	12.5	12.5
POWER																	
AVE POWER MW		39	44	71	71	79	86	88	93	92	79	33	32	32	44	44	44
PEAK POW MW		114	114	114	114	114	114	114	115	117	117	117	117	117	78	78	76
ENERGY GWH	587.2	13.9	7.4	15.4	51.4	58.7	61.6	65.1	69.3	66.6	58.6	11.9	5.4	6.2	33.0	33.0	29.7
--GAVINS POINT - SIOUX CITY--																	
NAT INFLOW	1550	169	79	102	199	310	224	129	96	60	42	16	7	9	21	5	82
DEPLETION	251	6	3	4	21	35	30	37	34	22	10	6	3	3	12	13	13
REGULATED FLOW AT SIOUX CITY																	
KAF	15287	491	250	467	1410	1689	1682	1666	1734	1621	1409	286	130	148	778	759	766
KCFS		16.5	18.0	26.2	23.7	27.5	28.3	27.1	28.2	27.2	22.9	9.6	9.4	9.4	12.6	12.4	13.8
--TOTAL--																	
NAT INFLOW	24601	1435	669	860	2307	3493	6073	3346	1194	1113	1032	452	211	241	651	582	943
DEPLETION	2171	21	10	12	142	556	1377	1000	186	-246	-136	-130	-60	-69	-192	-193	-107
CHAN STOR	-40	24	7	-17	-16	-52	-17	3	6	45	46	11	-34	-25	-17	-7	3
EVAPORATION	1391							85	269	335	289	130	61	70	151		
STORAGE	36543	37490	37907	38270	39010	40206	43203	43801	42811	42258	41774	41950	41996	42063	41960	41968	42255
SYSTEM POWER																	
AVE POWER MW		534	572	664	717	856	930	1021	1005	788	652	414	481	525	703	715	712
PEAK POW MW		2051	2053	2060	2072	2088	2131	2136	2126	2115	2080	2084	2085	2087	2063	2080	2091
ENERGY GWH	6679.3	192.4	96.2	143.4	516.4	636.8	669.9	759.4	747.7	567.5	485.1	149.2	80.8	100.8	523.0	532.1	478.6
DAILY GWH		12.8	13.7	15.9	17.2	20.5	22.3	24.5	24.1	18.9	15.6	9.9	11.5	12.6	16.9	17.2	17.1

	28FEB06	2006											2007			
	INI-SUM	15MAR	22MAR	31MAR	30APR	31MAY	30JUN	31JUL	31AUG	30SEP	31OCT	15NOV	22NOV	30NOV	31DEC	31JAN	28FEB
--FORT PECK--																	
NAT INFLOW	6000	242	113	145	525	925	1454	633	263	252	324	167	78	89	295	212	283
DEPLETION	203	-15	-7	-9	51	136	279	203	-11	-92	-83	-23	-11	-12	-83	-89	-31
EVAPORATION	414							25	79	99	87	39	18	21	45		
MOD INFLOW	5383	257	120	154	474	789	1175	405	195	245	320	151	70	80	333	301	314
RELEASE	5012	149	69	89	417	492	476	492	492	349	247	119	97	127	461	492	444
STOR CHANGE	371	108	50	65	57	297	699	-87	-297	-104	74	31	-27	-47	-128	-191	-130
STORAGE	8676	8785	8835	8900	8957	9255	9953	9866	9569	9465	9539	9570	9543	9496	9368	9177	9047
ELEV FTMSL	2197.9	2198.6	2198.9	2199.4	2199.8	2201.7	2206.2	2205.7	2203.8	2203.1	2203.6	2203.8	2203.6	2203.3	2202.5	2201.2	2200.4
DISCH KCFS	6.0	5.0	5.0	5.0	7.0	8.0	8.0	8.0	8.0	5.9	4.0	4.0	7.0	8.0	7.5	8.0	8.0
POWER																	
AVE POWER MW		58	59	59	82	94	96	97	96	70	48	48	84	96	89	95	94
PEAK POW MW		126	127	127	127	130	135	134	132	131	132	132	132	132	131	129	128
ENERGY GWH	722.3	21.0	9.8	12.7	59.1	70.2	69.1	72.1	71.6	50.6	35.8	17.4	14.1	18.4	66.6	70.6	63.4
--GARRISON--																	
NAT INFLOW	9400	443	207	266	712	1197	2521	1765	496	417	400	164	76	87	222	165	262
DEPLETION	1013	19	9	12	29	101	578	470	86	-99	29	-75	-35	-40	-47	-22	-2
CHAN STOR	-23	11			-22	-11				23	20	0	-32	-11	5	-5	
EVAPORATION	492							30	95	118	103	46	22	25	53		
REG INFLOW	12885	584	267	344	1077	1577	2419	1757	807	770	535	311	154	219	683	673	708
RELEASE	12437	446	208	268	952	1138	1160	1199	1199	956	672	325	236	286	1168	1168	1055
STOR CHANGE	449	138	59	76	125	439	1259	558	-392	-187	-137	-14	-82	-67	-485	-495	-347
STORAGE	10417	10555	10614	10690	10815	11254	12513	13071	12679	12492	12355	12342	12260	12193	11708	11213	10866
ELEV FTMSL	1807.7	1808.3	1808.6	1808.9	1809.5	1811.5	1816.9	1819.2	1817.6	1816.8	1816.2	1816.2	1815.8	1815.6	1813.5	1811.3	1809.7
DISCH KCFS	17.0	15.0	15.0	15.0	16.0	18.5	19.5	19.5	19.5	16.1	10.9	10.9	17.0	18.0	19.0	19.0	19.0
POWER																	
AVE POWER MW		152	153	153	164	191	207	213	213	175	119	118	183	194	202	199	196
PEAK POW MW		361	362	364	366	373	393	401	395	392	390	390	389	388	380	372	367
ENERGY GWH	1596.3	54.9	25.7	33.1	118.1	142.3	149.2	158.4	158.8	125.9	88.3	42.7	30.8	37.2	150.6	148.3	132.0
--OAHE--																	
NAT INFLOW	1449	154	72	92	229	130	577	102	24	65	9				-35	-6	36
DEPLETION	613	23	11	14	47	66	129	151	100	25	-8	2	1	1	11	16	26
CHAN STOR	-10	11		0	-5	-13	-5			19	28		-33	-5	-5		
EVAPORATION	402							24	74	95	85	39	18	21	45		
REG INFLOW	12861	588	269	346	1129	1188	1603	1126	1049	920	631	285	185	259	1072	1146	1065
RELEASE	12401	440	263	367	1237	1398	1262	1719	1518	162	713	249	119	136	1111	981	727
STOR CHANGE	460	148	6	-21	-108	-210	341	-593	-469	759	-82	36	65	123	-40	165	338
STORAGE	10947	11095	11102	11081	10973	10763	11104	10511	10042	10800	10718	10754	10820	10943	10903	11069	11407
ELEV FTMSL	1576.3	1577.0	1577.1	1577.0	1576.4	1575.4	1577.1	1574.1	1571.6	1575.6	1575.1	1575.3	1575.7	1576.3	1576.1	1576.9	1578.5
DISCH KCFS	17.3	14.8	18.9	20.6	20.8	22.7	21.2	28.0	24.7	2.7	11.6	8.4	8.6	8.6	18.1	16.0	13.1
POWER																	
AVE POWER MW		161	206	223	225	245	229	300	260	29	125	90	93	93	195	173	143
PEAK POW MW		551	551	551	548	542	551	536	523	543	541	542	544	547	546	550	559
ENERGY GWH	1616.4	57.8	34.6	48.2	162.1	182.1	164.9	223.0	193.8	20.9	93.1	32.4	15.6	17.8	145.3	128.6	96.2
--BIG BEND--																	
EVAPORATION	129							8	24	31	27	12	6	7	14		
REG INFLOW	12273	440	263	367	1237	1398	1262	1711	1493	131	686	236	113	129	1097	981	727
RELEASE	12273	440	263	367	1237	1398	1262	1711	1493	131	686	236	113	129	1097	981	727
STORAGE	1622	1622	1622	1622	1622	1622	1622	1622	1622	1621	1621	1621	1621	1621	1621	1621	1621
ELEV FTMSL	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0
DISCH KCFS	17.3	14.8	18.9	20.6	20.8	22.7	21.2	27.8	24.3	2.2	11.2	7.9	8.2	8.1	17.8	16.0	13.1
POWER																	
AVE POWER MW		70	89	96	97	106	99	130	115	11	56	40	41	41	87	76	62
PEAK POW MW		518	511	509	509	509	509	509	518	538	538	538	538	538	537	523	516
ENERGY GWH	705.1	25.2	14.9	20.8	70.1	79.2	71.5	96.9	85.5	8.0	41.4	14.3	6.9	7.8	64.5	56.4	41.7
--FORT RANDALL--																	
NAT INFLOW	500	68	32	41	64	51	130	26	49	23	1				5	-5	15
DEPLETION	80	1	1	1	4	9	12	18	15	7	1	1	0	1	3	3	3
EVAPORATION	140							10	31	34	26	12	6	6	15		
REG INFLOW	12554	507	294	407	1297	1440	1380	1709	1496	113	660	224	108	122	1085	973	739
RELEASE	12251	232	158	390	1297	1440	1380	1710	1672	885	662	224	108	123	719	701	550
STOR CHANGE	303	275	136	17		0	0	0	-176	-772	-2	-1	0	0	365	272	189
STORAGE	3121	3396	3532	3549	3549	3549	3549	3549	3373	2601	2599	2598	2598	2597	2963	3235	3424
ELEV FTMSL	1350.0	1353.4	1355.0	1355.2	1355.2	1355.2	1355.2	1355.2	1353.1	1342.6	1342.6	1342.5	1342.5	1342.5	1347.8	1351.4	1353.7
DISCH KCFS	10.0	7.8	11.4	21.8	21.8	23.4	23.2	27.8	27.2	14.9	10.8	7.5	7.8	7.7	11.7	11.4	9.9
POWER																	
AVE POWER MW		65	96	185	184	198	196	234	227	119	82	58	60	59	92	93	83
PEAK POW MW		350	355	356	356	356	356	356	349	308	308	308	308	308	332	344	351
ENERGY GWH	1225.9	23.3	16.2	39.9	132.7	147.2	141.1	174.4	169.1	85.6	61.3	20.9	10.0	11.4	68.2	69.0	55.5
--GAVINS POINT--																	
NAT INFLOW	1251	91	43	55	124	138	143	81	80	58	105	47	22	25	70	68	101
DEPLETION	114	0	0	0	5	19	24	39	10	-5	2	5	2	3	10	1	
CHAN STOR	0	4	-7	-20	0	-3	0	-9	1	23	8	6	0	0	-7	1	3
EVAPORATION	47							3	9	11	10	5	2	2	5		
REG INFLOW	13340	328	194	425	1416	1556	1500	1740	1735	960	762	268	125	143	767	769	654
RELEASE	13340	328	194	425	1416	1556	1500	1740	1722	934	762	268	125	143	767	769	693
STOR CHANGE									13	26							-39
STORAGE	358	358	358	358	358	358	358	358	371	397	397	397	397	397	397	397	358
ELEV FTMSL	1206.0	1206.0	1206.0	1206.0	1206.0	1206.0	1206.0	1206.0	1206.5	1207.5	1207.5	1207.5	1207.5	1207.5	1207.5	1207.5	1206.0
DISCH KCFS	12.5	11.0	14.0	23.8	23.8	25.3	25.2	28.3	28.0	15.7	12.4	9.0	9.0	9.0	12.5	12.5	12.5
POWER																	
AVE POWER MW		39	49	82	82	87	86	96	96	55	44	32	32	32	44	44	44
PEAK POW MW		114	114	114	114	114	114	114	115	117	117	117	117	117	78	78	76
ENERGY GWH	559.1	13.9	8.2	17.6	58.7	64.4	62.1	71.6	71.3	39.8	32.8	11.6	5.4	6.2	33.0	33.0	29.6
--GAVINS POINT - SIOUX CITY--																	
NAT INFLOW	900	115	54	69	90	174	125	75	56	35	24	13	6	7	13	-3	48
DEPLETION	248	6	3	4	20	34	30	37	34	22	9	6	3	3	12	13	13
REGULATED FLOW AT SIOUX CITY																	
KAF	13992	437	245	490	1486	1696	1595	1778	1744	947	777	275	128	147	768	753	728
KCFS		14.7	17.6	27.5	25.0	27.6	26.8	28.9	28.4	15.9	12.6	9.2	9.2	9.2	12.5	12.2	13.1
--TOTAL--																	
NAT INFLOW	19500	1114	520	668	1744	2615	4950	2682	968	850	863	390	182	208	570	431	745
DEPLETION	2271	34	16	21	156	365	1052	918	234	-142	-50	-85	-40	-45	-94	-78	9
CHAN STOR	-33	26	-7	-20	-28	-28	-5	-9	1	65	55	6	-66	-16	-7	-5	3
EVAPORATION	1623							100	313	389	338	153	71	82	177		
STORAGE	35142	35811	36063	36200	36274	36801	39099	38976	37655	37376	37229	37282	37239	37248	36960	36711	36722
SYSTEM POWER																	
AVE POWER MW		545	651	798	835	921	914	1071	1008	459	474	387	493	514	710	680	622
PEAK POW MW		2021	2020	2021	2021	2025	2059	2051	2033	2030	2026	2027	2027	2029	2004	1997	1998
ENERGY GWH	6425.1	196.2	109.4	172.3	600.9	685.4	657.8	796.5	750.1	330.8	352.7	139.2	82.8	98.7	528.1	506.0	418.3
DAILY GWH		13.1	15.6	19.1	20.0	22.1	21.9	25.7	24.2	11.0	11.4	9.3	11.8	12.3	17.0	16.3	14.9

TIME OF STUDY 10:29:11 SHORTEN NAVIGATION SEASON 58-DAYS STUDY NO 8
VALUES IN 1000 AF EXCEPT AS INDICATED

	28FEB06	2006											2007			
	INI-SUM	15MAR	22MAR	31MAR	30APR	31MAY	30JUN	31JUL	31AUG	30SEP	31OCT	15NOV	22NOV	30NOV	31DEC	31JAN	28FEB
--FORT PECK--																	
NAT INFLOW	5100	234	109	140	515	783	996	439	253	242	320	159	74	85	271	205	275
DEPLETION	238	-15	-7	-9	51	136	279	186	30	-57	-93	-26	-12	-14	-88	-77	-46
EVAPORATION	390							24	75	93	81	37	17	20	42		
MOD INFLOW	4472	249	116	149	464	647	717	229	148	206	332	148	69	79	317	282	321
RELEASE	5151	149	69	89	375	492	506	523	492	405	272	119	90	111	492	523	444
STOR CHANGE	-678	100	47	60	89	155	211	-294	-344	-199	60	29	-21	-32	-175	-241	-123
STORAGE	8676	8777	8824	8884	8973	9128	9339	9045	8701	8502	8562	8591	8569	8537	8362	8121	7998
ELEV FTMSL	2197.9	2198.5	2198.9	2199.3	2199.9	2200.9	2202.3	2200.3	2198.0	2196.7	2197.1	2197.3	2197.1	2196.9	2195.7	2194.0	2193.1
DISCH KCFS	6.0	5.0	5.0	5.0	6.3	8.0	8.5	8.5	8.0	6.8	4.4	4.0	6.5	7.0	8.0	8.5	8.0
POWER																	
AVE POWER MW		58	58	59	74	94	101	100	94	79	51	46	75	81	92	97	90
PEAK POW MW		126	126	127	128	129	130	128	125	123	124	124	124	124	122	119	118
ENERGY GWH	724.1	21.0	9.8	12.7	53.2	70.0	72.4	74.8	69.6	56.8	38.1	16.7	12.6	15.5	68.3	71.8	60.5
--GARRISON--																	
NAT INFLOW	7299	270	126	162	700	903	2020	1277	361	277	390	161	75	86	108	160	223
DEPLETION	924	21	10	13	45	120	505	382	53	-118	43	-66	-31	-35	-27	-1	10
CHAN STOR	-23	11			-15	-19	-6	0	5	13	26	5	-28	-6	-11	-6	6
EVAPORATION	459							28	90	111	96	43	20	23	49		
REG INFLOW	11044	409	185	238	1015	1256	2015	1389	716	702	549	308	148	204	567	678	663
RELEASE	11870	417	180	232	875	1045	1131	1138	1107	962	676	327	208	270	1138	1138	1027
STOR CHANGE	-827	-8	5	6	141	211	885	252	-391	-260	-127	-20	-60	-66	-570	-460	-364
STORAGE	10417	10410	10415	10421	10562	10772	11657	11908	11517	11258	11131	11111	11051	10985	10415	9955	9591
ELEV FTMSL	1807.7	1807.6	1807.7	1807.7	1808.3	1809.3	1813.3	1814.3	1812.7	1811.5	1810.9	1810.8	1810.6	1810.3	1807.7	1805.5	1803.7
DISCH KCFS	17.0	14.0	13.0	13.0	14.7	17.0	19.0	18.5	18.0	16.2	11.0	11.0	15.0	17.0	18.5	18.5	18.5
POWER																	
AVE POWER MW		142	132	132	149	174	198	196	191	170	115	115	156	176	189	185	182
PEAK POW MW		359	359	359	362	365	380	383	377	373	371	371	370	369	359	351	344
ENERGY GWH	1478.4	51.1	22.2	28.5	107.6	129.2	142.3	145.9	141.7	122.1	85.6	41.3	26.2	33.8	140.6	137.8	122.4
--OAHE--																	
NAT INFLOW	1049	197	92	118	183	100	215	82	21	64	5	-5	-2	-3	-48	-12	41
DEPLETION	613	23	11	14	47	66	129	151	100	25	-8	2	1	1	11	16	26
CHAN STOR	-8	16	5		-9	-12	-11	3	3	11	29		-23	-11	-8		
EVAPORATION	368							23	69	87	77	35	16	19	41		
REG INFLOW	11930	607	267	337	1002	1067	1206	1048	962	925	641	286	166	236	1029	1110	1042
RELEASE	12775	444	284	377	1262	1421	1277	1737	1536	532	543	259	120	138	958	966	920
STOR CHANGE	-845	164	-16	-41	-260	-354	-71	-689	-575	393	98	26	46	98	71	143	122
STORAGE	10947	11111	11095	11054	10794	10440	10369	9680	9105	9498	9596	9622	9668	9766	9837	9980	10102
ELEV FTMSL	1576.3	1577.1	1577.0	1576.8	1575.5	1573.7	1573.4	1569.7	1566.4	1568.7	1569.2	1569.3	1569.6	1570.1	1570.5	1571.3	1572.0
DISCH KCFS	17.3	14.9	20.4	21.1	21.2	23.1	21.5	28.3	25.0	8.9	8.8	8.7	8.7	8.7	15.6	15.7	16.6
POWER																	
AVE POWER MW		162	222	229	229	247	228	295	255	92	92	90	90	90	162	164	174
PEAK POW MW		551	551	550	543	534	532	512	496	507	510	511	512	515	517	521	524
ENERGY GWH	1626.4	58.3	37.3	49.5	164.8	183.6	164.0	219.6	190.1	66.0	68.1	32.6	15.1	17.4	120.8	122.3	117.0
--BIG BEND--																	
EVAPORATION	129							8	24	31	27	12	6	7	14		
REG INFLOW	12646	444	284	377	1262	1421	1277	1730	1512	501	516	247	115	131	944	966	920
RELEASE	12646	444	284	377	1262	1421	1277	1730	1512	501	516	247	115	131	944	966	920
STORAGE	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622
ELEV FTMSL	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0
DISCH KCFS	17.3	14.9	20.4	21.1	21.2	23.1	21.5	28.1	24.6	8.4	8.4	8.3	8.3	8.3	15.4	15.7	16.6
POWER																	
AVE POWER MW		71	96	99	99	108	100	132	116	43	43	42	42	42	77	77	80
PEAK POW MW		518	511	509	509	509	509	509	518	538	538	538	538	538	538	538	529
ENERGY GWH	732.7	25.4	16.1	21.4	71.5	80.5	72.4	98.0	86.6	30.7	31.7	15.2	7.0	8.0	57.3	57.5	53.4
--FORT RANDALL--																	
NAT INFLOW	300	55	26	33	43	35	120	13	36	-10	-52	-3	-1	-1		-6	12
DEPLETION	80	1	1	1	4	9	12	18	15	7	1	1	0	1	3	3	3
EVAPORATION	128							10	31	32	22	10	5	5	12		
REG INFLOW	12729	497	309	410	1301	1447	1385	1715	1502	443	441	233	108	124	928	957	929
RELEASE	12727	235	160	393	1301	1447	1385	1715	1676	1521	441	234	108	124	726	707	555
STOR CHANGE	2	262	149	17				0	-174	-1079	0	0	0	0	203	250	374
STORAGE	3121	3383	3532	3549	3549	3549	3549	3549	3375	2296	2296	2296	2296	2296	2498	2748	3122
ELEV FTMSL	1350.0	1353.2	1355.0	1355.2	1355.2	1355.2	1355.2	1355.2	1353.1	1337.5	1337.5	1337.5	1337.5	1337.5	1341.0	1344.8	1350.0
DISCH KCFS	10.0	7.9	11.5	22.0	21.9	23.5	23.3	27.9	27.3	25.6	7.2	7.9	7.8	7.8	11.8	11.5	10.0
POWER																	
AVE POWER MW		66	97	186	185	199	197	235	228	198	53	58	57	57	88	88	80
PEAK POW MW		350	355	356	356	356	356	356	349	284	285	285	285	285	301	319	339
ENERGY GWH	1255.1	23.6	16.3	40.2	133.1	147.9	141.6	174.9	169.5	142.8	39.2	20.7	9.6	11.0	65.2	65.6	53.7
--GAVINS POINT--																	
NAT INFLOW	1200	87	41	52	120	131	138	76	76	55	104	45	21	24	67	65	98
DEPLETION	114	0	0	0	5	19	24	39	10	-5	2	5	2	3	10	1	
CHAN STOR	-1	4	-7	-20	0	-3	0	-9	1	3	34	-1	0	0	-7	1	3
EVAPORATION	47							3	9	11	10	5	2	2	5		
REG INFLOW	13765	327	194	425	1416	1556	1500	1740	1735	1573	567	268	125	143	770	772	656
RELEASE	13765	327	194	425	1416	1556	1500	1740	1722	1547	567	268	125	143	770	772	695
STOR CHANGE									13	26							-39
STORAGE	358	358	358	358	358	358	358	358	371	397	397	397	397	397	397	397	358
ELEV FTMSL	1206.0	1206.0	1206.0	1206.0	1206.0	1206.0	1206.0	1206.0	1206.5	1207.5	1207.5	1207.5	1207.5	1207.5	1207.5	1207.5	1206.0
DISCH KCFS	12.5	11.0	14.0	23.8	23.8	25.3	25.2	28.3	28.0	26.0	9.2	9.0	9.0	9.0	12.5	12.5	12.5
POWER																	
AVE POWER MW		38	49	82	82	87	86	96	96	90	33	32	32	32	44	45	44
PEAK POW MW		114	114	114	114	114	114	114	115	117	117	117	117	117	78	78	76
ENERGY GWH	576.4	13.9	8.2	17.6	58.7	64.4	62.1	71.6	71.3	65.2	24.5	11.6	5.4	6.2	33.1	33.2	29.7
--GAVINS POINT - SIOUX CITY--																	
NAT INFLOW	550	36	17	22	77	144	106	47	22	15	14	10	4	5	10	-5	26
DEPLETION	248	6	3	4	20	34	30	37	34	22	9	6	3	3	12	13	13
REGULATED FLOW AT SIOUX CITY																	
KAF	14067	357	208	443	1473	1666	1576	1750	1710	1540	572	272	127	145	768	754	708
KCFS		12.0	15.0	24.8	24.8	27.1	26.5	28.5	27.8	25.9	9.3	9.1	9.1	9.1	12.5	12.3	12.8
--TOTAL--																	
NAT INFLOW	15498	880	411	528	1638	2096	3595	1934	769	643	781	367	171	195	408	407	675
DEPLETION	2217	36	17	22	172	384	979	813	242	-126	-46	-79	-37	-42	-79	-45	6
CHAN STOR	-41	31	-2	-20	-23	-35	-16	-6	9	18	90	3	-50	-17	-27	-5	8
EVAPORATION	1522							96	298	365	314	142	66	76	164		
STORAGE	35142	35661	35845	35888	35857	35869	36894	36162	34691	33573	33604	33639	33603	33603	33131	32824	32793
SYSTEM POWER																	
AVE POWER MW		537	654	786	818	908	909	1055	980	672	386	383	452	478	652	656	650
PEAK POW MW		2018	2017	2016	2012	2007	2021	2004	1981	1942	1945	1945	1946	1947	1915	1926	1931
ENERGY GWH	6392.9	193.3	109.9	169.9	589.0	675.6	654.8	784.7	728.8	483.7	287.1	138.0	76.0	91.9	485.3	488.3	436.8
DAILY GWH		12.9	15.7	18.9	19.6	21.8	21.8	25.3	23.5	16.1	9.3	9.2	10.9	11.5	15.7	15.8	15.6

INI-SUM 15MAR 22MAR 31MAR 30APR 31MAY 30JUN 31JUL 31AUG 30SEP 31OCT 15NOV 22NOV 30NOV 31DEC 31JAN 28FEB

	28FEB06	2006												2007		
	INI-SUM	15MAR	22MAR	31MAR	30APR	31MAY	30JUN	31JUL	31AUG	30SEP	31OCT	15NOV	22NOV	30NOV	31DEC	31JAN	28FEB
--FORT PECK--																	
NAT INFLOW	9600	319	149	192	797	1604	2491	1219	456	379	531	210	98	112	346	297	400
DEPLETION	378	-39	-18	-23	36	340	580	170	-66	-113	-68	-24	-11	-13	-126	-151	-96
EVAPORATION	282							18	58	74	65	16	7	8	35		
MOD INFLOW	8940	358	167	215	761	1264	1911	1031	464	418	534	218	102	116	437	448	496
RELEASE	4215	179	56	71	238	369	417	430	430	321	265	128	83	95	400	400	333
STOR CHANGE	4725	180	112	143	523	895	1494	601	33	98	269	90	18	21	37	48	163
STORAGE	9570	9750	9862	10005	10528	11423	12917	13518	13551	13649	13917	14007	14026	14047	14084	14133	14295
ELEV FTMSL	2203.8	2204.9	2205.6	2206.5	2209.8	2215.1	2223.5	2226.7	2226.8	2227.3	2228.7	2229.2	2229.3	2229.4	2229.6	2229.8	2230.6
DISCH KCFS	7.0	6.0	4.0	4.0	4.0	6.0	7.0	7.0	7.0	5.4	4.3	4.3	6.0	6.0	6.5	6.5	6.0
POWER																	
AVE POWER MW		72	48	49	49	75	91	93	93	72	58	58	81	81	87	87	81
PEAK POW MW		133	134	135	139	145	154	157	157	157	158	159	159	159	159	159	160
ENERGY GWH	668.9	26.0	8.1	10.5	35.4	55.9	65.2	69.0	69.4	51.8	43.0	20.9	13.6	15.5	65.1	65.1	54.4
--GARRISON--																	
NAT INFLOW	14199	515	240	309	1376	1934	3530	2647	841	574	652	260	121	139	278	348	434
DEPLETION	961	-15	-7	-9	6	192	883	513	64	-154	-13	-103	-48	-55	-119	-108	-66
CHAN STOR	11	11	22			-22	-11			16	11	0	-17		-5		5
EVAPORATION	317							21	67	84	73	17	8	9	38		
REG INFLOW	17146	720	325	390	1608	2089	3053	2544	1141	981	868	473	227	279	753	856	838
RELEASE	13226	476	208	268	1071	1168	1190	1230	1230	1012	882	427	208	286	1230	1230	1111
STOR CHANGE	3920	244	117	122	537	921	1863	1314	-89	-30	-15	46	19	-6	-476	-374	-272
STORAGE	11504	11749	11866	11988	12525	13446	15308	16623	16534	16503	16488	16535	16554	16547	16071	15697	15424
ELEV FTMSL	1812.6	1813.7	1814.2	1814.7	1816.9	1820.7	1827.8	1832.5	1832.2	1832.1	1832.0	1832.2	1832.2	1832.2	1830.5	1829.2	1828.2
DISCH KCFS	18.0	16.0	15.0	15.0	18.0	19.0	20.0	20.0	20.0	17.0	14.4	14.4	15.0	18.0	20.0	20.0	20.0
POWER																	
AVE POWER MW		169	160	160	194	209	228	237	240	204	173	173	181	216	239	237	235
PEAK POW MW		381	383	385	393	407	433	450	449	448	448	449	449	449	443	438	434
ENERGY GWH	1857.6	60.9	26.8	34.6	139.5	155.3	164.1	176.3	178.8	147.2	128.5	62.2	30.4	41.6	177.7	176.0	157.8
--OAHE--																	
NAT INFLOW	3850	559	261	335	474	347	881	297	123	163	102	109	51	58	22	10	59
DEPLETION	613	23	11	14	47	66	129	151	100	25	-8	2	1	1	11	16	26
CHAN STOR	-8	10	5	0	-15	-5	-5			14	12		-3	-13	-9		
EVAPORATION	294							19	61	76	68	16	8	9	37		
REG INFLOW	16161	1022	463	589	1484	1445	1937	1356	1192	1087	937	518	248	321	1195	1224	1144
RELEASE	11283	323	183	236	691	1101	1019	1326	1511	1085	539	482	80	119	1057	914	619
STOR CHANGE	4878	700	280	353	793	344	918	31	-319	2	398	36	168	202	138	310	525
STORAGE	12062	12762	13042	13395	14188	14532	15450	15481	15162	15163	15562	15598	15766	15968	16106	16415	16940
ELEV FTMSL	1581.6	1584.8	1586.0	1587.5	1590.7	1592.1	1595.7	1595.8	1594.6	1594.6	1596.1	1596.3	1596.9	1597.6	1598.1	1599.3	1601.1
DISCH KCFS	11.6	10.8	13.2	13.2	11.6	17.9	17.1	21.6	24.6	18.2	8.8	16.2	5.8	7.5	17.2	14.9	11.1
POWER																	
AVE POWER MW		123	151	152	136	212	206	261	296	220	106	197	71	92	211	183	139
PEAK POW MW		592	598	606	622	629	647	647	641	641	649	650	653	656	659	664	674
ENERGY GWH	1644.7	44.1	25.4	32.9	97.9	157.6	148.0	194.1	220.4	158.1	79.1	70.9	11.9	17.6	156.9	136.4	93.3
--BIG BEND--																	
EVAPORATION	71							5	15	19	16	4	2	2	9		
REG INFLOW	11213	323	183	236	691	1101	1019	1321	1496	1066	522	478	78	117	1049	914	619
RELEASE	11213	323	183	236	691	1101	1019	1321	1496	1066	522	478	78	117	1049	914	619
STORAGE	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620
ELEV FTMSL	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0
DISCH KCFS	11.6	10.8	13.2	13.2	11.6	17.9	17.1	21.5	24.3	17.9	8.5	16.1	5.6	7.4	17.1	14.9	11.1
POWER																	
AVE POWER MW		51	62	62	54	84	80	101	114	85	43	81	29	37	84	72	54
PEAK POW MW		517	509	509	509	509	509	509	509	525	538	538	538	538	538	538	529
ENERGY GWH	648.2	18.5	10.4	13.3	39.1	62.3	57.7	74.8	84.7	61.5	32.0	29.1	4.8	7.2	62.7	53.9	36.0
--FORT RANDALL--																	
NAT INFLOW	1501	190	89	114	298	159	224	111	72	92	60	5	2	3	23	10	49
DEPLETION	80	1	1	1	4	9	12	18	15	7	1	1	0	1	3	3	3
EVAPORATION	78							6	19	23	16	3	1	2	8		
REG INFLOW	12551	511	271	349	985	1251	1231	1408	1535	1128	560	478	80	117	1061	921	665
RELEASE	12548	217	137	349	985	1251	1231	1408	1535	1475	1447	496	80	117	695	664	461
STOR CHANGE	3	294	134					0	0	-347	-887	-18	0	0	366	257	204
STORAGE	3121	3415	3549	3549	3549	3549	3549	3549	3549	3202	2315	2297	2297	2297	2663	2920	3124
ELEV FTMSL	1350.0	1353.6	1355.2	1355.2	1355.2	1355.2	1355.2	1355.2	1355.2	1351.0	1337.8	1337.5	1337.5	1337.5	1343.5	1347.2	1350.0
DISCH KCFS	9.0	7.3	9.9	19.5	16.6	20.3	20.7	22.9	25.0	24.8	23.5	16.7	5.7	7.4	11.3	10.8	8.3
POWER																	
AVE POWER MW		61	84	165	140	172	175	194	211	206	181	122	42	54	85	85	67
PEAK POW MW		351	356	356	356	356	356	356	356	342	286	285	285	285	313	330	339
ENERGY GWH	1243.6	21.9	14.1	35.7	101.2	128.1	126.1	144.0	156.8	148.2	135.0	43.8	7.1	10.4	63.2	63.1	45.1
--GAVINS POINT--																	
NAT INFLOW	2252	107	50	64	246	319	281	211	170	135	157	60	28	32	95	106	191
DEPLETION	114	0	0	0	5	19	24	39	10	-5	2	5	2	3	10	1	
CHAN STOR	0	3	-5	-19	6	-7	-1	-4	-4	0	2	13	20	-3	-7	1	5
EVAPORATION	26							2	5	7	6	1	1	1	3		
REG INFLOW	14661	328	182	395	1232	1543	1488	1574	1685	1609	1599	562	125	143	769	770	657
RELEASE	14661	328	182	395	1232	1543	1488	1574	1672	1583	1599	562	125	143	769	770	696
STOR CHANGE									13	26							-39
STORAGE	358	358	358	358	358	358	358	358	371	397	397	397	397	397	397	397	358
ELEV FTMSL	1206.0	1206.0	1206.0	1206.0	1206.0	1206.0	1206.0	1206.0	1206.5	1207.5	1207.5	1207.5	1207.5	1207.5	1207.5	1207.5	1206.0
DISCH KCFS	12.5	11.0	13.1	22.1	20.7	25.1	25.0	25.6	27.2	26.6	26.0	18.9	9.0	9.0	12.5	12.5	12.5
POWER																	
AVE POWER MW		39	46	76	71	86	86	88	93	92	91	67	32	32	44	44	44
PEAK POW MW		114	114	114	114	114	114	114	115	117	117	117	117	117	78	78	76
ENERGY GWH	615.1	13.9	7.7	16.4	51.4	63.9	61.6	65.1	69.3	66.6	67.8	24.0	5.4	6.2	33.1	33.1	29.7
--GAVINS POINT - SIOUX CITY--																	
NAT INFLOW	3100	195	91	117	1006	553	318	246	184	127	66	26	12	14	30	12	105
DEPLETION	248	6	3	4	20	34	30	37	34	22	9	6	3	3	12	13	13
REGULATED FLOW AT SIOUX CITY																	
KAF	17513	516	270	508	2218	2062	1776	1783	1822	1688	1656	582	134	153	787	769	788
KCFS		17.3	19.5	28.4	37.3	33.5	29.8	29.0	29.6	28.4	26.9	19.6	9.7	9.7	12.8	12.5	14.2
--TOTAL--																	
NAT INFLOW	34502	1885	879	1131	4197	4916	7725	4731	1846	1470	1568	670	312	357	794	783	1238
DEPLETION	2394	-24	-11	-15	118	660	1658	928	157	-218	-77	-114	-53	-61	-209	-226	-120
CHAN STOR	-1	24	22	-19	-9	-34	-16	-4	-4	30	21	12	1	-17	-21	1	10
EVAPORATION	1068							70	225	282	245	58	27	31	129		
STORAGE	38236	39654	40296	40915	42768	44928	49203	51149	50787	50535	50300	50454	50660	50876	50941	51182	51762
SYSTEM POWER																	
AVE POWER MW		515	550	664	645	838	865	972	1048	880	653	697	435	513	751	709	619
PEAK POW MW		2088	2094	2105	2134	2160	2213	2233	2227	2231	2196	2197	2200	2204	2189	2207	2212
ENERGY GWH	6678.1	185.3	92.5	143.5	464.4	623.1	622.7	723.4	779.5	633.3	485.5	250.9	73.1	98.4	558.6	527.6	416.2
DAILY GWH		12.4	13.2	15.9	15.5	20.1	20.8	23.3	25.1	21.1	15.7	16.7	10.4	12.3	18.0	17.0	14.9

TIME OF STUDY 11:09:36 SHORTEN NAVIGATION SEASON 28-DAYS (w/SPRING PULSE) STUDY NO 10
VALUES IN 1000 AF EXCEPT AS INDICATED

	28FEB05		2006										2007			
	INI-SUM	15MAR	22MAR	31MAR	30APR	31MAY	30JUN	31JUL	31AUG	30SEP	31OCT	15NOV	22NOV	30NOV	31DEC	31JAN	28FEB
--FORT PECK--																	
NAT INFLOW	8901	296	138	178	739	1487	2309	1130	423	351	492	195	91	104	321	276	371
DEPLETION	380	-38	-18	-23	36	340	580	158	-62	-126	-67	-23	-11	-12	-120	-143	-91
EVAPORATION	292							17	55	70	61	28	13	15	32		
MOD INFLOW	8229	334	156	201	703	1147	1729	955	430	407	498	190	89	101	409	419	462
RELEASE	5182	179	69	89	357	492	506	492	492	357	276	159	97	127	523	523	444
STOR CHANGE	3048	156	87	111	346	655	1223	463	-62	50	222	31	-9	-26	-114	-104	18
STORAGE	9570	9726	9813	9924	10270	10925	12148	12611	12549	12600	12821	12852	12843	12818	12704	12600	12618
ELEV FTMSL	2203.8	2204.8	2205.3	2206.0	2208.2	2212.2	2219.2	2221.8	2221.5	2221.7	2222.9	2223.1	2223.1	2222.9	2222.3	2221.7	2221.8
DISCH KCFS	7.0	6.0	5.0	5.0	6.0	8.0	8.5	8.0	8.0	6.0	4.5	5.4	7.0	8.0	8.5	8.5	8.0
POWER																	
AVE POWER MW		72	60	61	73	99	108	104	104	78	59	71	92	105	111	111	105
PEAK POW MW		133	134	135	137	142	150	152	152	152	153	154	153	153	153	152	152
ENERGY GWH	805.5	26.0	10.2	13.1	52.7	73.6	77.7	77.3	77.7	56.5	43.8	25.4	15.5	20.2	82.9	82.7	70.2
--GARRISON--																	
NAT INFLOW	12901	482	225	289	1250	1723	3207	2405	764	522	593	236	110	126	260	316	394
DEPLETION	948	-15	-7	-9	8	210	859	517	72	-129	-13	-111	-52	-59	-132	-116	-75
CHAN STOR	-11	11	11		-11	-22	-5	5		20	16	-9	-17	-10	-5		5
EVAPORATION	343							20	65	82	72	33	15	17	38		
REG INFLOW	16782	686	312	387	1588	1983	2848	2365	1119	946	825	465	227	284	872	955	918
RELEASE	13069	476	208	268	1041	1199	1190	1230	1230	1012	778	387	194	286	1230	1230	1111
STOR CHANGE	3713	210	104	119	547	784	1658	1135	-111	-65	47	78	33	-1	-358	-275	-192
STORAGE	11504	11714	11818	11937	12484	13268	14927	16062	15951	15885	15933	16011	16044	16042	15684	15409	15217
ELEV FTMSL	1812.6	1813.5	1814.0	1814.5	1816.8	1820.0	1826.4	1830.5	1830.1	1829.9	1830.1	1830.3	1830.4	1830.4	1829.2	1828.2	1827.5
DISCH KCFS	18.0	16.0	15.0	15.0	17.5	19.5	20.0	20.0	20.0	17.0	12.7	13.0	14.0	18.0	20.0	20.0	20.0
POWER																	
AVE POWER MW		169	159	160	188	213	226	234	237	202	150	155	167	214	236	235	233
PEAK POW MW		380	382	384	392	404	428	443	441	440	441	442	442	442	438	434	431
ENERGY GWH	1819.5	60.9	26.8	34.5	135.4	158.8	162.9	174.4	176.5	145.2	112.0	55.7	28.0	41.1	175.9	174.6	156.8
--OAHE--																	
NAT INFLOW	3200	460	214	276	394	285	749	246	103	135	85	91	42	48	18	5	49
DEPLETION	613	23	11	14	47	66	129	151	100	25	-8	2	1	1	11	16	26
CHAN STOR	-9	10	5	0	-12	-10	-2			14	20	-2	-5	-18	-9		
EVAPORATION	310							19	58	74	65	29	14	16	35		
REG INFLOW	15337	923	417	530	1376	1408	1808	1306	1174	1062	826	445	217	299	1193	1219	1134
RELEASE	11534	503	95	273	789	1172	1092	1380	1370	804	937	219	112	126	1068	918	677
STOR CHANGE	3804	421	322	257	587	236	716	-74	-195	258	-110	226	106	173	125	301	457
STORAGE	12062	12483	12805	13062	13649	13885	14601	14527	14331	14590	14479	14705	14811	14983	15108	15409	15866
ELEV FTMSL	1581.6	1583.5	1584.9	1586.1	1588.5	1589.5	1592.4	1592.1	1591.3	1592.4	1591.9	1592.8	1593.2	1593.9	1594.4	1595.5	1597.3
DISCH KCFS	11.6	16.9	6.9	15.3	13.3	19.1	18.3	22.4	22.3	13.5	15.2	7.4	8.0	8.0	17.4	14.9	12.2
POWER																	
AVE POWER MW		190	78	175	154	222	216	266	264	160	181	88	96	96	209	180	149
PEAK POW MW		585	592	598	611	616	631	629	625	630	628	633	635	638	640	646	654
ENERGY GWH	1651.4	68.4	13.1	37.8	110.6	165.5	155.9	198.2	196.1	115.5	134.8	31.7	16.2	18.4	155.3	134.1	99.8
--BIG BEND--																	
EVAPORATION	78							5	15	19	16	7	3	4	9		
REG INFLOW	11456	503	95	273	789	1172	1092	1376	1355	785	920	212	108	122	1060	918	677
RELEASE	11456	503	95	273	789	1172	1092	1376	1355	785	920	212	108	122	1060	918	677
STORAGE	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620
ELEV FTMSL	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0
DISCH KCFS	11.6	16.9	6.9	15.3	13.3	19.1	18.3	22.4	22.0	13.2	15.0	7.1	7.8	7.7	17.2	14.9	12.2
POWER																	
AVE POWER MW		79	32	72	62	89	86	105	104	65	75	36	40	39	85	73	58
PEAK POW MW		510	509	509	509	509	509	509	518	538	538	538	538	538	538	538	529
ENERGY GWH	664.8	28.5	5.4	15.4	44.7	66.4	61.8	77.9	77.6	46.9	56.1	13.0	6.6	7.5	63.4	54.2	39.3
--FORT RANDALL--																	
NAT INFLOW	1200	142	66	85	239	150	195	89	65	64	38	3	1	1	18	5	39
DEPLETION	80	1	1	1	4	9	12	18	15	7	1	1	0	1	3	3	3
EVAPORATION	80							6	19	21	15	6	3	3	8		
REG INFLOW	12497	643	161	357	1024	1313	1275	1441	1386	821	943	208	106	120	1067	920	713
RELEASE	12494	232	144	357	1024	1313	1275	1441	1560	1496	1346	208	106	120	701	683	489
STOR CHANGE	3	411	17					0	-174	-675	-403	0	0	0	366	237	224
STORAGE	3121	3532	3549	3549	3549	3549	3549	3549	3375	2700	2297	2297	2297	2297	2663	2900	3124
ELEV FTMSL	1350.0	1355.0	1355.2	1355.2	1355.2	1355.2	1355.2	1355.2	1353.1	1344.1	1337.5	1337.5	1337.5	1337.5	1343.5	1347.0	1350.0
DISCH KCFS	9.0	7.8	10.4	20.0	17.2	21.4	21.4	23.4	25.4	25.1	21.9	7.0	7.6	7.6	11.4	11.1	8.8
POWER																	
AVE POWER MW		65	88	169	146	181	181	198	212	201	164	51	56	55	86	87	71
PEAK POW MW		355	356	356	356	356	356	356	349	315	285	285	285	285	313	328	339
ENERGY GWH	1231.4	23.5	14.8	36.6	105.2	134.4	130.5	147.3	158.0	144.7	121.7	18.5	9.4	10.6	63.7	64.7	47.8
--GAVINS POINT--																	
NAT INFLOW	1899	93	44	56	207	257	237	178	144	114	132	51	24	27	86	89	161
DEPLETION	114	0	0	0	5	19	24	39	10	-5	2	5	2	3	10	1	
CHAN STOR	-1	2	-5	-18	5	-8	0	-4	-4	0	6	28	-1	0	-7	1	4
EVAPORATION	28							2	5	7	6	3	1	1	3		
REG INFLOW	14250	328	183	395	1232	1543	1488	1574	1685	1609	1476	278	125	143	767	771	654
RELEASE	14250	328	183	395	1232	1543	1488	1574	1672	1583	1476	278	125	143	767	771	693
STOR CHANGE									13	26							-39
STORAGE	358	358	358	358	358	358	358	358	371	397	397	397	397	397	397	397	358
ELEV FTMSL	1206.0	1206.0	1206.0	1206.0	1206.0	1206.0	1206.0	1206.0	1206.5	1207.5	1207.5	1207.5	1207.5	1207.5	1207.5	1207.5	1206.0
DISCH KCFS	12.5	11.0	13.2	22.1	20.7	25.1	25.0	25.6	27.2	26.6	24.0	9.4	9.0	9.0	12.5	12.5	12.5
POWER																	
AVE POWER MW		39	46	76	71	86	86	88	93	92	84	33	32	32	44	45	44
PEAK POW MW		114	114	114	114	114	114	114	115	117	117	117	117	117	78	78	76
ENERGY GWH	597.9	13.9	7.7	16.4	51.4	63.9	61.6	65.1	69.3	66.6	62.7	12.0	5.4	6.2	33.0	33.1	29.6
--GAVINS POINT - SIOUX CITY--																	
NAT INFLOW	2500	181	85	109	811	406	252	199	148	97	53	21	10	11	24	10	84
DEPLETION	248	6	3	4	20	34	30	37	34	22	9	6	3	3	12	13	13
REGULATED FLOW AT SIOUX CITY																	
KAF	16502	503	264	500	2023	1915	1710	1736	1786	1658	1520	293	132	151	779	768	764
KCFS		16.9	19.0	28.0	34.0	31.1	28.7	28.2	29.1	27.9	24.7	9.9	9.5	9.5	12.7	12.5	13.8
--TOTAL--																	
NAT INFLOW	30601	1654	772	992	3640	4308	6949	4247	1647	1283	1393	595	278	317	727	701	1098
DEPLETION	2383	-23	-11	-14	120	678	1634	920	169	-206	-76	-121	-56	-65	-216	-226	-124
CHAN STOR	-19	24	11	-18	-18	-39	-8	1	-4	35	42	18	-23	-28	-21	1	9
EVAPORATION	1130							68	217	272	236	106	50	57	124		
STORAGE	38236	39434	39963	40451	41930	43606	47203	48727	48198	47792	47547	47882	48012	48157	48176	48336	48803
SYSTEM POWER																	
AVE POWER MW		614	464	712	694	891	903	995	1015	799	714	434	483	541	772	730	660
PEAK POW MW		2079	2088	2096	2120	2141	2187	2203	2201	2192	2162	2168	2170	2174	2160	2176	2182
ENERGY GWH	6770.4	221.2	78.0	153.8	500.0	662.7	650.4	740.2	755.2	575.3	531.1	156.2	81.1	103.9	574.2	543.4	443.5
DAILY GWH		14.7	11.1	17.1	16.7	21.4	21.7	23.9	24.4	19.2	17.1	10.4	11.6	13.0	18.5	17.5	15.8

28FEB06		2006									2007				
	INI-SUM	15MAR	22MAR	31MAR	30APR	31MAY	30JUN	31JUL	31AUG	30SEP	31OCT	15NOV	22NOV	30NOV	31DEC	31JAN	28FEB
--FORT PECK--																	
NAT INFLOW	7400	264	123	158	628	1210	1851	829	324	319	398	188	88	100	310	261	349
DEPLETION	230	-7	-3	-4	55	230	443	225	-60	-138	-105	-33	-15	-18	-112	-134	-93
EVAPORATION	356							21	68	85	75	34	16	18	39		
MOD INFLOW	6814	272	127	163	573	980	1408	583	316	372	428	187	87	100	383	395	442
RELEASE	5212	179	69	89	357	492	536	523	492	347	269	149	97	127	492	523	472
STOR CHANGE	1602	93	57	74	216	488	872	60	-175	25	159	38	-10	-27	-109	-128	-30
STORAGE	9081	9174	9232	9305	9521	10009	10882	10942	10766	10791	10950	10988	10978	10951	10841	10714	10684
ELEV FTMSL	2200.6	2201.2	2201.6	2202.1	2203.5	2206.6	2211.9	2212.3	2211.2	2211.4	2212.3	2212.5	2212.5	2212.3	2211.7	2210.9	2210.7
DISCH KCFS	6.0	6.0	5.0	5.0	6.0	8.0	9.0	8.5	8.0	5.8	4.4	5.0	7.0	8.0	8.0	8.5	8.5
POWER																	
AVE POWER MW		71	59	59	72	96	111	106	100	73	55	63	88	100	100	106	105
PEAK POW MW		129	130	130	132	135	141	142	140	141	142	142	142	142	141	140	140
ENERGY GWH	777.9	25.5	10.0	12.8	51.6	71.7	79.7	78.9	74.2	52.4	40.7	22.6	14.7	19.2	74.3	78.6	70.9
--GARRISON--																	
NAT INFLOW	11001	469	219	282	853	1423	2958	2066	581	497	454	192	89	102	253	237	326
DEPLETION	883	-2	-1	-1	10	197	739	530	87	-157	-36	-110	-51	-58	-116	-92	-56
CHAN STOR	-28		11		-11	-22	-11	5	5	23	15	-7	-21	-11		-5	0
EVAPORATION	418							25	80	100	88	40	18	21	45		
REG INFLOW	14885	650	300	372	1189	1696	2744	2039	911	924	687	404	198	256	815	846	854
RELEASE	12935	417	194	250	893	1230	1220	1230	1199	1030	772	378	208	286	1230	1261	1139
STOR CHANGE	1949	233	106	122	296	466	1524	809	-288	-107	-86	26	-10	-30	-414	-414	-284
STORAGE	10909	11143	11249	11371	11667	12133	13657	14466	14178	14071	13986	14012	14001	13972	13557	13143	12859
ELEV FTMSL	1809.9	1811.0	1811.5	1812.0	1813.3	1815.3	1821.5	1824.7	1823.5	1823.1	1822.8	1822.9	1822.9	1822.7	1821.1	1819.5	1818.3
DISCH KCFS	18.0	14.0	14.0	14.0	15.0	20.0	20.5	20.0	19.5	17.3	12.6	12.7	15.0	18.0	20.0	20.5	20.5
POWER																	
AVE POWER MW		145	146	147	158	213	224	226	222	196	143	144	170	203	224	227	225
PEAK POW MW		371	373	375	380	387	410	421	417	415	414	415	414	414	408	402	398
ENERGY GWH	1729.7	52.3	24.6	31.7	113.9	158.2	161.5	168.2	165.2	141.4	106.1	51.9	28.5	39.0	166.9	169.1	151.2
--OAHE--																	
NAT INFLOW	2300	317	148	190	364	236	689	162	33	118	14	5	2	3	-20		40
DEPLETION	613	23	11	14	47	66	129	151	100	25	-8	2	1	1	11	16	26
CHAN STOR	-12	21			-5	-25	-3	2	2	11	24	-1	-12	-15	-10	-2	
EVAPORATION	367							22	70	88	77	35	16	19	41		
REG INFLOW	14244	731	331	426	1204	1374	1777	1221	1065	1047	742	346	182	254	1148	1242	1153
RELEASE	12244	404	222	285	974	1266	1172	1492	1430	878	893	226	115	130	931	942	886
STOR CHANGE	1999	327	110	141	230	108	605	-271	-365	169	-151	120	67	124	217	300	267
STORAGE	11451	11778	11888	12029	12260	12368	12973	12702	12337	12506	12355	12475	12542	12666	12883	13184	13451
ELEV FTMSL	1578.8	1580.3	1580.8	1581.5	1582.5	1583.0	1585.7	1584.5	1582.9	1583.6	1582.9	1583.5	1583.8	1584.3	1585.3	1586.6	1587.7
DISCH KCFS	15.4	13.6	16.0	16.0	16.4	20.6	19.7	24.3	23.3	14.8	14.5	7.6	8.3	8.2	15.1	15.3	15.9
POWER																	
AVE POWER MW		150	177	178	183	231	224	276	263	167	164	86	94	93	173	176	184
PEAK POW MW		568	571	574	580	582	596	590	582	586	582	585	586	589	594	601	607
ENERGY GWH	1678.2	54.1	29.8	38.4	132.1	172.2	161.0	205.4	195.3	120.0	122.1	30.9	15.8	17.9	128.4	130.8	123.8
--BIG BEND--																	
EVAPORATION	103							6	20	25	22	10	5	5	11		
REG INFLOW	12141	404	222	285	974	1266	1172	1486	1410	853	871	216	110	125	919	942	886
RELEASE	12141	404	222	285	974	1266	1172	1486	1410	853	871	216	110	125	919	942	886
STORAGE	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622
ELEV FTMSL	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0
DISCH KCFS	15.4	13.6	16.0	16.0	16.4	20.6	19.7	24.2	22.9	14.3	14.2	7.3	8.0	7.9	14.9	15.3	15.9
POWER																	
AVE POWER MW		64	75	75	77	96	92	113	108	71	71	37	40	40	75	75	77
PEAK POW MW		517	509	509	509	509	509	509	518	538	538	538	538	538	538	538	529
ENERGY GWH	705.3	23.2	12.6	16.1	55.2	71.7	66.4	84.2	80.7	51.0	53.2	13.3	6.8	7.7	55.8	56.1	51.4
--FORT RANDALL--																	
NAT INFLOW	900	122	57	73	115	140	185	74	57	42	2	2	1	1	10		19
DEPLETION	80	1	1	1	4	9	12	18	15	7	1	1	0	1	3	3	3
EVAPORATION	107							8	25	28	20	8	4	4	10		
REG INFLOW	12855	525	278	357	1085	1397	1345	1534	1427	860	852	209	107	121	916	939	902
RELEASE	12853	232	144	357	1085	1397	1345	1534	1601	1535	1256	209	107	121	713	689	528
STOR CHANGE	2	293	134					0	-174	-675	-403	0	0	0	203	250	374
STORAGE	3122	3415	3549	3549	3549	3549	3549	3549	3375	2700	2297	2297	2296	2296	2499	2749	3123
ELEV FTMSL	1350.0	1353.6	1355.2	1355.2	1355.2	1355.2	1355.2	1355.2	1353.1	1344.1	1337.5	1337.5	1337.5	1337.5	1341.0	1344.8	1350.0
DISCH KCFS	9.5	7.8	10.4	20.0	18.2	22.7	22.6	24.9	26.0	25.8	20.4	7.0	7.7	7.6	11.6	11.2	9.5
POWER																	
AVE POWER MW		65	88	170	155	192	191	211	218	206	153	52	56	56	86	86	76
PEAK POW MW		351	356	356	356	356	356	356	349	315	285	285	285	285	301	319	339
ENERGY GWH	1265.2	23.3	14.8	36.6	111.3	142.9	137.6	156.7	162.1	148.4	113.6	18.6	9.5	10.7	64.1	64.0	51.1
--GAVINS POINT--																	
NAT INFLOW	1450	92	43	55	148	174	166	86	103	77	122	50	23	27	77	79	127
DEPLETION	114	0	0	0	5	19	24	39	10	-5	2	5	2	3	10	1	
CHAN STOR	-1	3	-5	-19	3	-9	0	-4	-2	0	10	25	-1	0	-7	1	3
EVAPORATION	38							2	7	9	8	4	2	2	4		
REG INFLOW	14150	328	182	395	1232	1543	1488	1574	1685	1609	1377	275	125	143	769	767	658
RELEASE	14150	328	182	395	1232	1543	1488	1574	1672	1583	1377	275	125	143	769	767	697
STOR CHANGE									13	26							-39
STORAGE	358	358	358	358	358	358	358	358	371	397	397	397	397	397	397	397	358
ELEV FTMSL	1206.0	1206.0	1206.0	1206.0	1206.0	1206.0	1206.0	1206.0	1206.5	1207.5	1207.5	1207.5	1207.5	1207.5	1207.5	1207.5	1206.0
DISCH KCFS	12.5	11.0	13.1	22.1	20.7	25.1	25.0	25.6	27.2	26.6	22.4	9.2	9.0	9.0	12.5	12.5	12.5
POWER																	
AVE POWER MW		39	46	76	71	86	86	88	93	92	79	33	32	32	44	44	44
PEAK POW MW		114	114	114	114	114	114	114	115	117	117	117	117	117	78	78	76
ENERGY GWH	593.7	13.9	7.7	16.4	51.4	63.9	61.6	65.1	69.3	66.6	58.6	11.9	5.4	6.2	33.0	33.0	29.7
--GAVINS POINT - SIOUX CITY--																	
NAT INFLOW	1550	169	79	102	199	310	224	129	96	60	42	16	7	9	21	5	82
DEPLETION	253	6	3	4	21	35	30	37	34	22	10	6	3	3	13	13	13
REGULATED FLOW AT SIOUX CITY																	
KAF	15447	491	258	492	1410	1818	1682	1666	1734	1621	1409	285	130	148	777	759	766
KCFS		16.5	18.6	27.6	23.7	29.6	28.3	27.1	28.2	27.2	22.9	9.6	9.3	9.3	12.6	12.4	13.8
--TOTAL--																	
NAT INFLOW	24601	1435	669	860	2307	3493	6073	3346	1194	1113	1032	452	211	241	651	582	943
DEPLETION	2173	21	10	12	142	556	1377	1000	186	-246	-136	-129	-60	-69	-191	-193	-107
CHAN STOR	-40	24	6	-19	-13	-56	-13	3	6	34	49	18	-34	-25	-17	-7	3
EVAPORATION	1388							85	269	335	289	130	61	69	151		
STORAGE	36543	37490	37897	38234	38977	40039	43040	43638	42649	42087	41606	41790	41837	41903	41800	41809	42096
SYSTEM POWER																	
AVE POWER MW		534	591	704	716	915	928	1020	1004	805	665	414	480	524	702	714	712
PEAK POW MW		2051	2053	2059	2071	2084	2127	2133	2122	2112	2078	2081	2083	2085	2060	2078	2089
ENERGY GWH	6749.9	192.4	99.3	152.2	515.4	680.6	667.9	758.5	746.9	579.8	494.4	149.0	80.7	100.7	522.5	531.5	478.1
DAILY GWH		12.8	14.2	16.9	17.2	22.0	22.3	24.5	24.1	19.3	15.9	9.9	11.5	12.6	16.9	17.1	17.1

28FEB07		2007										2008			
	INI-SUM	15MAR	22MAR	31MAR	30APR	31MAY	30JUN	31JUL	31AUG	30SEP	31OCT	15NOV	22NOV	30NOV	31DEC	31JAN	29FEB
--FORT PECK--																	
NAT INFLOW	7400	264	123	158	628	1210	1851	829	324	319	398	188	88	100	310	261	349
DEPLETION	410	-21	-10	-12	18	339	634	223	-72	-155	-73	-39	-18	-21	-131	-144	-108
EVAPORATION	382							23	73	91	80	36	17	19	42		
MOD INFLOW	6608	285	133	171	610	871	1217	583	323	383	391	190	89	101	399	405	457
RELEASE	5197	179	69	89	298	461	536	523	523	357	267	130	61	111	523	553	518
STOR CHANGE	1411	107	64	82	312	410	681	60	-199	26	124	60	28	-10	-124	-148	-61
STORAGE	10683	10790	10853	10935	11247	11657	12339	12399	12200	12226	12349	12409	12437	12427	12303	12155	12094
ELEV FTMSL	2210.7	2211.3	2211.7	2212.2	2214.1	2216.4	2220.3	2220.6	2219.5	2219.7	2220.3	2220.7	2220.8	2220.8	2220.1	2219.3	2218.9
DISCH KCFS	8.5	6.0	5.0	5.0	5.0	7.5	9.0	8.5	8.5	6.0	4.3	4.4	4.4	7.0	8.5	9.0	9.0
POWER																	
AVE POWER MW		75	62	63	63	95	116	110	110	78	56	57	57	91	110	116	116
PEAK POW MW		141	141	142	144	146	151	151	150	150	151	151	151	151	150	150	149
ENERGY GWH	809.6	26.9	10.5	13.5	45.3	70.8	83.3	82.1	82.0	56.0	42.0	20.6	9.6	17.5	82.1	86.6	80.8
--GARRISON--																	
NAT INFLOW	11001	469	219	282	853	1423	2958	2066	581	497	454	192	89	102	253	237	326
DEPLETION	980	-5	-2	-3	2	203	804	591	50	-135	-29	-108	-50	-58	-116	-96	-68
CHAN STOR	-5	27	11			-27	-16	5		26	17	0		-27	-15	-5	
EVAPORATION	451							27	87	109	95	43	20	23	49		
REG INFLOW	14762	680	301	374	1149	1655	2674	1976	967	906	672	387	181	221	827	881	912
RELEASE	13043	417	194	286	1012	1230	1220	1230	1199	982	836	330	154	286	1230	1261	1179
STOR CHANGE	1719	263	107	88	137	425	1454	746	-232	-76	-163	57	27	-64	-403	-379	-267
STORAGE	12859	13122	13229	13317	13454	13879	15333	16079	15847	15771	15608	15665	15692	15627	15225	14845	14578
ELEV FTMSL	1818.3	1819.4	1819.8	1820.2	1820.7	1822.4	1827.9	1830.6	1829.8	1829.5	1828.9	1829.1	1829.2	1829.0	1827.5	1826.1	1825.1
DISCH KCFS	20.5	14.0	14.0	16.0	17.0	20.0	20.5	20.0	19.5	16.5	13.6	11.1	11.1	18.0	20.0	20.5	20.5
POWER																	
AVE POWER MW		154	155	178	189	224	235	236	231	195	161	131	131	212	234	238	236
PEAK POW MW		402	403	405	407	413	433	443	440	439	437	437	438	437	431	426	423
ENERGY GWH	1823.9	55.6	26.1	38.4	136.2	166.4	169.1	175.3	172.0	140.6	119.6	47.2	22.1	40.7	174.1	176.7	164.0
--OAHE--																	
NAT INFLOW	2300	317	148	190	364	236	689	162	33	118	14	5	2	3	-20		40
DEPLETION	626	23	11	14	47	67	132	156	103	25	-9	2	1	1	12	17	26
CHAN STOR	1	31		-10	-5	-14	-2	2	2	14	14	12		-32	-9	-2	
EVAPORATION	409							25	78	98	85	38	18	21	45		
REG INFLOW	14309	742	331	452	1324	1385	1775	1213	1053	991	787	307	138	235	1143	1241	1193
RELEASE	12544	520	105	285	974	1317	1171	1492	1430	878	1121	225	115	130	931	972	880
STOR CHANGE	1765	222	227	167	350	68	604	-279	-377	113	-334	81	23	105	213	270	313
STORAGE	13451	13673	13900	14067	14417	14485	15089	14810	14433	14546	14212	14294	14316	14421	14634	14903	15216
ELEV FTMSL	1587.7	1588.6	1589.6	1590.3	1591.7	1591.9	1594.3	1593.2	1591.7	1592.2	1590.8	1591.2	1591.3	1591.7	1592.5	1593.6	1594.8
DISCH KCFS	15.9	17.5	7.5	16.0	16.4	21.4	19.7	24.3	23.3	14.8	18.2	7.6	8.3	8.2	15.1	15.8	15.3
POWER																	
AVE POWER MW		203	88	187	193	254	235	290	276	175	216	90	98	97	180	189	184
PEAK POW MW		612	617	620	627	628	640	635	627	629	623	624	625	627	631	636	642
ENERGY GWH	1803.6	73.1	14.8	40.5	139.2	188.7	169.1	215.9	205.5	126.2	160.5	32.3	16.5	18.7	133.9	140.5	128.1
--BIG BEND--																	
EVAPORATION	103							6	20	25	22	10	5	5	11		
REG INFLOW	12441	520	105	285	974	1317	1171	1486	1410	853	1099	216	110	125	919	972	880
RELEASE	12441	520	105	285	974	1317	1171	1486	1410	853	1099	216	110	125	919	972	880
STORAGE	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622
ELEV FTMSL	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0
DISCH KCFS	15.9	17.5	7.5	16.0	16.4	21.4	19.7	24.2	22.9	14.3	17.9	7.2	7.9	7.9	14.9	15.8	15.3
POWER																	
AVE POWER MW		82	35	75	77	100	92	113	108	71	90	37	40	40	75	78	73
PEAK POW MW		510	509	509	509	509	509	509	518	538	538	538	538	538	538	538	529
ENERGY GWH	722.8	29.5	5.9	16.1	55.2	74.6	66.3	84.2	80.7	51.0	66.9	13.2	6.8	7.7	55.8	57.7	51.1
--FORT RANDALL--																	
NAT INFLOW	900	122	57	73	115	140	185	74	57	42	2	2	1	1	10		19
DEPLETION	80	1	1	1	4	9	12	18	15	7	1	1	0	1	3	3	3
EVAPORATION	107							8	25	28	20	8	4	4	10		
REG INFLOW	13156	641	161	357	1085	1448	1344	1534	1427	860	1081	209	107	121	916	969	896
RELEASE	13155	232	144	357	1085	1448	1344	1534	1601	1535	1484	209	107	121	713	689	552
STOR CHANGE	0	409	17					0	-174	-675	-403	0	0	0	203	280	344
STORAGE	3123	3532	3549	3549	3549	3549	3549	3549	3375	2700	2297	2297	2297	2297	2500	2780	3124
ELEV FTMSL	1350.0	1355.0	1355.2	1355.2	1355.2	1355.2	1355.2	1355.2	1353.1	1344.1	1337.5	1337.5	1337.5	1337.5	1341.0	1345.3	1350.0
DISCH KCFS	9.5	7.8	10.4	20.0	18.2	23.5	22.6	24.9	26.0	25.8	24.1	7.0	7.7	7.6	11.6	11.2	9.6
POWER																	
AVE POWER MW		65	88	170	155	199	191	211	218	206	180	52	56	56	86	86	77
PEAK POW MW		355	356	356	356	356	356	356	349	315	285	285	285	285	301	321	339
ENERGY GWH	1293.4	23.5	14.8	36.6	111.3	148.0	137.5	156.7	162.1	148.4	134.0	18.6	9.5	10.7	64.1	64.1	53.5
--GAVINS POINT--																	
NAT INFLOW	1450	92	43	55	148	174	166	86	103	77	122	50	23	27	77	79	127
DEPLETION	114	0	0	0	5	19	24	39	10	-5	2	5	2	3	10	1	
CHAN STOR	-1	3	-5	-19	3	-10	2	-5	-2	0	3	32	-1	0	-7	1	3
EVAPORATION	38							2	7	9	8	4	2	2	4		
REG INFLOW	14452	328	182	395	1232	1593	1488	1574	1685	1609	1599	282	125	143	769	767	682
RELEASE	14452	328	182	395	1232	1593	1488	1574	1672	1583	1599	282	125	143	769	767	721
STOR CHANGE									13	26							-39
STORAGE	358	358	358	358	358	358	358	358	371	397	397	397	397	397	397	397	358
ELEV FTMSL	1206.0	1206.0	1206.0	1206.0	1206.0	1206.0	1206.0	1206.0	1206.5	1207.5	1207.5	1207.5	1207.5	1207.5	1207.5	1207.5	1206.0
DISCH KCFS	12.5	11.0	13.1	22.1	20.7	25.9	25.0	25.6	27.2	26.6	26.0	9.5	9.0	9.0	12.5	12.5	12.5
POWER																	
AVE POWER MW		39	46	76	71	88	86	88	93	92	91	34	32	32	44	44	44
PEAK POW MW		114	114	114	114	114	114	114	115	117	117	117	117	117	78	78	76
ENERGY GWH	606.2	13.9	7.7	16.4	51.4	65.8	61.6	65.1	69.3	66.6	67.8	12.2	5.4	6.2	33.0	33.0	30.8
--GAVINS POINT - SIOUX CITY--																	
NAT INFLOW	1550	169	79	102	199	310	224	129	96	60	42	16	7	9	21	5	82
DEPLETION	251	6	3	4	21	35	30	37	34	22	10	6	3	3	12	13	13
REGULATED FLOW AT SIOUX CITY																	
KAF	15751	491	258	492	1410	1868	1682	1666	1734	1621	1631	293	130	148	778	759	790
KCFS		16.5	18.6	27.6	23.7	30.4	28.3	27.1	28.2	27.2	26.5	9.8	9.3	9.4	12.6	12.4	13.7
--TOTAL--																	
NAT INFLOW	24601	1435	669	860	2307	3493	6073	3346	1194	1113	1032	452	211	241	651	582	943
DEPLETION	2461	4	2	3	97	672	1636	1064	140	-241	-98	-134	-63	-71	-210	-206	-134
CHAN STOR	-4	62	6	-28	-1	-51	-16	3	0	40	34	44	-1	-59	-32	-7	3
EVAPORATION	1490							91	289	360	310	139	65	74	162		
STORAGE	42096	43097	43511	43848	44647	45550	48289	48817	47848	47261	46485	46683	46760	46790	46680	46702	46991
SYSTEM POWER																	
AVE POWER MW		618	475	748	748	960	954	1047	1037	818	794	400	416	528	730	751	730
PEAK POW MW		2135	2141	2146	2157	2167	2203	2208	2200	2188	2150	2153	2154	2155	2130	2149	2158
ENERGY GWH	7059.4	222.4	79.9	161.5	538.6	714.4	687.0	779.3	771.6	588.8	590.7	144.1	69.8	101.4	543.0	558.7	508.3
DAILY GWH		14.8	11.4	17.9	18.0	23.0	22.9	25.1	24.9	19.6	19.1	9.6	10.0	12.7	17.5	18.0	17.5

VALUES IN 1000 AF EXCEPT AS INDICATED

	28FEB08			2008										2009			
	INI-SUM	15MAR	22MAR	31MAR	30APR	31MAY	30JUN	31JUL	31AUG	30SEP	31OCT	15NOV	22NOV	30NOV	31DEC	31JAN	28FEB
--FORT PECK--																	
NAT INFLOW	7400	264	123	158	628	1210	1851	829	324	319	398	188	88	100	310	261	349
DEPLETION	421	-4	-2	-3	43	350	569	229	-68	-156	-79	-41	-19	-22	-133	-146	-98
EVAPORATION	405							25	77	97	85	39	18	21	44		
MOD INFLOW	6574	269	125	161	585	860	1282	575	315	378	392	189	88	101	399	407	447
RELEASE	5666	179	69	89	357	492	595	584	523	417	297	144	83	111	584	615	528
STOR CHANGE	907	90	56	72	228	368	687	-9	-208	-38	95	46	5	-10	-186	-208	-81
STORAGE	12094	12184	12240	12312	12540	12908	13595	13586	13378	13340	13435	13481	13486	13476	13290	13082	13002
ELEV FTMSL	2218.9	2219.4	2219.7	2220.1	2221.4	2223.4	2227.1	2227.0	2225.9	2225.7	2226.2	2226.5	2226.5	2226.4	2225.5	2224.4	2223.9
DISCH KCFS	9.0	6.0	5.0	5.0	6.0	8.0	10.0	9.5	8.5	7.0	4.8	4.8	6.0	7.0	9.5	10.0	9.5
POWER																	
AVE POWER MW		78	65	65	78	105	132	127	113	93	64	64	80	93	126	132	125
PEAK POW MW		150	150	150	152	154	157	157	156	156	157	157	157	157	156	155	154
ENERGY GWH	906.2	27.9	10.9	14.0	56.3	78.0	95.2	94.2	84.2	67.0	47.8	23.2	13.4	17.9	93.9	98.2	84.2
--GARRISON--																	
NAT INFLOW	11001	469	219	282	853	1423	2958	2066	581	497	454	192	89	102	253	237	326
DEPLETION	1002	-4	-2	-2	3	201	814	609	51	-142	-24	-112	-52	-60	-119	-97	-62
CHAN STOR	-5	31	10		-10	-21	-21	5	10	15	22		-12	-10	-25	-5	5
EVAPORATION	474							29	91	114	99	45	21	24	51		
REG INFLOW	15186	683	301	373	1197	1693	2718	2018	972	957	698	402	192	239	880	944	921
RELEASE	14086	476	222	286	1071	1291	1339	1353	1291	1071	804	389	222	286	1353	1383	1250
STOR CHANGE	1100	207	78	87	126	402	1380	665	-320	-114	-106	13	-30	-47	-473	-440	-329
STORAGE	14578	14785	14863	14951	15077	15478	16858	17523	17203	17089	16982	16996	16966	16919	16446	16006	15678
ELEV FTMSL	1825.1	1825.9	1826.2	1826.5	1826.9	1828.4	1833.3	1835.6	1834.5	1834.1	1833.7	1833.8	1833.7	1833.5	1831.9	1830.3	1829.1
DISCH KCFS	20.5	16.0	16.0	16.0	18.0	21.0	22.5	22.0	21.0	18.0	13.1	13.1	16.0	18.0	22.0	22.5	22.5
POWER																	
AVE POWER MW		184	185	185	209	245	267	268	257	219	159	159	195	218	265	268	266
PEAK POW MW		425	427	428	429	435	453	461	457	456	454	454	454	454	447	442	437
ENERGY GWH	2035.7	66.3	31.1	40.0	150.3	182.1	192.6	199.2	190.9	157.9	118.6	57.3	32.7	41.9	197.0	199.3	178.4
--OAHE--																	
NAT INFLOW	2300	317	148	190	364	236	689	162	33	118	14	5	2	3	-20		40
DEPLETION	640	23	11	14	48	68	135	160	106	25	-9	2	1	1	12	17	27
CHAN STOR	-9	20			-9	-13	-7	2	4	13	22		-13	-9	-18	-2	
EVAPORATION	436							28	86	105	90	40	19	21	47		
REG INFLOW	15302	790	359	462	1378	1446	1886	1329	1137	1072	759	352	192	257	1256	1364	1263
RELEASE	14178	520	105	285	974	1399	1291	1628	1740	1544	1027	485	209	227	1082	879	786
STOR CHANGE	1123	270	254	177	404	47	595	-298	-603	-471	-269	-133	-17	30	174	486	477
STORAGE	15216	15486	15741	15917	16321	16368	16964	16665	16063	15591	15323	15190	15172	15203	15377	15863	16340
ELEV FTMSL	1594.8	1595.8	1596.8	1597.5	1598.9	1599.1	1601.2	1600.2	1598.0	1596.2	1595.2	1594.7	1594.6	1594.8	1595.4	1597.2	1599.0
DISCH KCFS	15.3	17.5	7.5	16.0	16.4	22.8	21.7	26.5	28.3	25.9	16.7	16.3	15.1	14.3	17.6	14.3	14.1
POWER																	
AVE POWER MW		211	92	195	201	280	269	329	348	316	203	197	182	172	212	174	174
PEAK POW MW		648	652	655	663	664	675	669	658	649	644	642	642	642	645	654	663
ENERGY GWH	2101.4	76.0	15.4	42.1	144.9	208.6	193.8	244.6	258.9	227.4	150.7	70.8	30.5	33.1	158.1	129.4	116.9
--BIG BEND--																	
EVAPORATION	103							6	20	25	22	10	5	5	11		
REG INFLOW	14075	520	105	285	974	1399	1291	1621	1720	1519	1006	475	205	221	1070	879	786
RELEASE	14075	520	105	285	974	1399	1291	1621	1720	1519	1006	475	205	221	1070	879	786
STORAGE	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622
ELEV FTMSL	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0
DISCH KCFS	15.3	17.5	7.5	16.0	16.4	22.8	21.7	26.4	28.0	25.5	16.4	16.0	14.7	14.0	17.4	14.3	14.1
POWER																	
AVE POWER MW		82	35	75	77	107	102	123	131	121	80	80	74	70	86	70	68
PEAK POW MW		510	509	509	509	509	509	509	509	517	538	538	538	538	538	538	529
ENERGY GWH	811.9	29.5	5.9	16.1	55.2	79.3	73.1	91.8	97.4	87.1	59.8	28.9	12.5	13.5	64.0	52.0	45.6
--FORT RANDALL--																	
NAT INFLOW	900	122	57	73	115	140	185	74	57	42	2	2	1	1	10		19
DEPLETION	80	1	1	1	4	9	12	18	15	7	1	1	0	1	3	3	3
EVAPORATION	118							8	25	31	25	10	4	4	10		
REG INFLOW	14777	641	161	357	1085	1530	1464	1669	1737	1522	982	466	201	217	1067	876	802
RELEASE	14777	232	144	357	1085	1530	1464	1669	1737	1666	1619	770	360	225	701	689	528
STOR CHANGE	1	408	17					0	0	-144	-637	-304	-159	-8	366	187	274
STORAGE	3124	3532	3549	3549	3549	3549	3549	3549	3549	3405	2768	2464	2305	2297	2663	2850	3124
ELEV FTMSL	1350.0	1355.0	1355.2	1355.2	1355.2	1355.2	1355.2	1355.2	1355.2	1353.5	1345.1	1340.4	1337.6	1337.5	1343.5	1346.3	1350.0
DISCH KCFS	9.6	7.8	10.4	20.0	18.2	24.9	24.6	27.1	28.2	28.0	26.3	25.9	25.9	14.2	11.4	11.2	9.5
POWER																	
AVE POWER MW		65	88	170	155	210	208	229	238	234	211	196	190	104	86	88	76
PEAK POW MW		355	356	356	356	356	356	356	356	350	319	298	286	285	313	325	339
ENERGY GWH	1468.4	23.5	14.8	36.6	111.3	156.3	149.6	170.3	177.1	168.7	157.3	70.7	31.9	19.9	63.7	65.1	51.4
--GAVINS POINT--																	
NAT INFLOW	1450	92	43	55	148	174	166	86	103	77	122	50	23	27	77	79	127
DEPLETION	114	0	0	0	5	19	24	39	10	-5	2	5	2	3	10	1	
CHAN STOR	-1	3	-5	-19	3	-13	1	-5	-2	0	3	1	0	22	5	0	3
EVAPORATION	38							2	7	9	8	4	2	2	4		
REG INFLOW	16074	328	182	395	1232	1672	1607	1709	1821	1740	1734	812	379	269	769	767	658
RELEASE	16074	328	182	395	1232	1672	1607	1709	1808	1714	1734	812	379	269	769	767	697
STOR CHANGE									13	26							-39
STORAGE	358	358	358	358	358	358	358	358	371	397	397	397	397	397	397	397	358
ELEV FTMSL	1206.0	1206.0	1206.0	1206.0	1206.0	1206.0	1206.0	1206.0	1206.5	1207.5	1207.5	1207.5	1207.5	1207.5	1207.5	1207.5	1206.0
DISCH KCFS	12.5	11.0	13.1	22.1	20.7	27.2	27.0	27.8	29.4	28.8	28.2	27.3	27.3	17.0	12.5	12.5	12.5
POWER																	
AVE POWER MW		39	46	76	71	93	92	95	100	100	99	96	96	60	44	44	44
PEAK POW MW		114	114	114	114	114	114	114	115	117	117	117	117	117	78	78	76
ENERGY GWH	672.5	13.9	7.7	16.4	51.4	69.0	66.3	70.4	74.3	71.8	73.4	34.4	16.1	11.5	33.1	33.0	29.7
--GAVINS POINT - SIOUX CITY--																	
NAT INFLOW	1550	169	79	102	199	310	224	129	96	60	42	16	7	9	21	5	82
DEPLETION	255	6	3	4	21	35	30	38	35	23	10	6	3	3	12	13	14
REGULATED FLOW AT SIOUX CITY																	
KAF	17369	492	258	492	1410	1947	1801	1800	1869	1751	1766	823	384	275	778	759	765
KCFS		16.5	18.6	27.6	23.7	31.7	30.3	29.3	30.4	29.4	28.7	27.7	27.7	17.3	12.7	12.3	13.8
--TOTAL--																	
NAT INFLOW	24601	1435	669	860	2307	3493	6073	3346	1194	1113	1032	452	211	241	651	582	943
DEPLETION	2512	22	10	13	124	682	1584	1093	149	-248	-99	-140	-65	-74	-215	-209	-116
CHAN STOR	-15	55	6	-19	-16	-47	-27	2	12	29	47	1	-25	3	-38	-7	8
EVAPORATION	1574							97	306	381	329	147	68	77	169		
STORAGE	46991	47967	48373	48709	49467	50284	52945	53303	52186	51443	50527	50149	49948	49914	49795	49820	50122
SYSTEM POWER																	
AVE POWER MW		659	511	766	791	1039	1070	1170	1187	1083	817	793	816	718	819	776	753
PEAK POW MW		2203	2208	2213	2224	2232	2264	2267	2252	2246	2230	2206	2193	2192	2178	2192	2199
ENERGY GWH	7995.9	237.2	85.9	165.4	569.4	773.2	770.6	870.5	882.8	780.0	607.7	285.3	137.1	137.8	609.7	577.1	506.3
DAILY GWH		15.8	12.3	18.4	19.0	24.9	25.7	28.1	28.5	26.0	19.6	19.0	19.6	17.2	19.7	18.6	18.1

VALUES IN 1000 AF EXCEPT AS INDICATED

	29FEB09		2009										2010			
	INI-SUM	15MAR	22MAR	31MAR	30APR	31MAY	30JUN	31JUL	31AUG	30SEP	31OCT	15NOV	22NOV	30NOV	31DEC	31JAN	28FEB
--FORT PECK--																	
NAT INFLOW	7400	264	123	158	628	1210	1851	829	324	319	398	188	88	100	310	261	349
DEPLETION	421	-4	-2	-3	43	350	569	229	-68	-156	-79	-41	-19	-22	-133	-146	-98
EVAPORATION	428							26	83	103	89	40	19	21	46		
MOD INFLOW	6551	269	125	161	585	860	1282	574	309	372	388	188	88	100	397	407	447
RELEASE	6075	179	69	89	357	492	565	553	523	585	471	228	83	127	584	615	555
STOR CHANGE	476	90	56	72	228	368	717	20	-214	-213	-83	-40	4	-27	-187	-208	-108
STORAGE	13002	13092	13148	13219	13447	13815	14532	14552	14339	14126	14043	14003	14007	13981	13793	13586	13477
ELEV FTMSL	2223.9	2224.4	2224.7	2225.1	2226.3	2228.2	2231.8	2231.9	2230.8	2229.8	2229.4	2229.2	2229.2	2229.0	2228.1	2227.0	2226.4
DISCH KCFS	9.5	6.0	5.0	5.0	6.0	8.0	9.5	9.0	8.5	9.8	7.7	7.7	6.0	8.0	9.5	10.0	10.0
POWER																	
AVE POWER MW		79	66	66	80	107	128	122	115	132	103	103	81	107	127	133	133
PEAK POW MW		155	155	156	157	158	161	161	160	159	159	159	159	159	158	157	157
ENERGY GWH	985.0	28.6	11.1	14.3	57.4	79.4	92.0	90.6	85.5	95.3	76.6	37.0	13.6	20.6	94.7	99.1	89.3
--GARRISON--																	
NAT INFLOW	11001	469	219	282	853	1423	2958	2066	581	497	454	192	89	102	253	237	326
DEPLETION	1013	-4	-2	-2	3	200	834	613	56	-145	-28	-116	-54	-62	-120	-98	-63
CHAN STOR	-5	36	10		-10	-20	-15	5	5	-13	22		17	-20	-15	-5	
EVAPORATION	488							30	94	117	102	46	22	25	53		
REG INFLOW	15570	688	300	373	1197	1694	2674	1982	958	1096	872	489	222	246	890	945	944
RELEASE	14920	476	222	286	1131	1414	1428	1414	1383	1104	1027	497	232	317	1353	1414	1222
STOR CHANGE	651	212	78	87	66	280	1246	568	-425	-8	-155	-8	-10	-71	463	-469	-277
STORAGE	15678	15889	15968	16055	16121	16402	17648	18215	17790	17782	17628	17620	17609	17538	17075	16606	16328
ELEV FTMSL	1829.1	1829.9	1830.2	1830.5	1830.7	1831.7	1836.0	1837.8	1836.4	1836.4	1835.9	1835.9	1835.9	1835.6	1834.0	1832.4	1831.5
DISCH KCFS	22.5	16.0	16.0	16.0	19.0	23.0	24.0	23.0	22.5	18.6	16.7	16.7	16.7	20.0	22.0	23.0	22.0
POWER																	
AVE POWER MW		189	190	190	226	274	291	284	278	229	206	206	206	246	268	278	263
PEAK POW MW		440	441	442	443	447	463	469	464	464	462	462	462	461	455	450	446
ENERGY GWH	2192.8	68.1	31.9	41.1	162.7	203.9	209.3	211.4	207.2	164.9	153.3	74.0	34.5	47.2	199.7	206.5	177.0
--OAHE--																	
NAT INFLOW	2300	317	148	190	364	236	689	162	33	118	14	5	2	3	-20		40
DEPLETION	652	23	11	14	48	69	138	165	109	27	-10	1	0	1	12	17	27
CHAN STOR	2	28			-13	-17	-4	4	2	17	8	0		-15	-9	-4	4
EVAPORATION	451							29	89	109	93	42	19	22	48		
REG INFLOW	16119	798	359	462	1434	1564	1975	1387	1221	1103	966	459	214	283	1263	1393	1239
RELEASE	15443	567	132	327	1111	1553	1446	1775	1887	1686	1175	556	256	226	1082	909	756
STOR CHANGE	676	231	227	135	323	11	529	-388	-666	-583	-209	-97	-42	57	182	484	484
STORAGE	16340	16571	16798	16933	17256	17267	17796	17408	16741	16158	15949	15851	15809	15866	16047	16532	17015
ELEV FTMSL	1599.0	1599.8	1600.6	1601.1	1602.2	1602.3	1604.1	1602.8	1600.4	1598.3	1597.6	1597.2	1597.0	1597.3	1597.9	1599.7	1601.4
DISCH KCFS	14.1	19.0	9.5	18.3	18.7	25.3	24.3	28.9	30.7	28.3	19.1	18.7	18.5	14.3	17.6	14.8	13.6
POWER																	
AVE POWER MW		235	118	228	234	317	306	364	383	349	234	229	226	174	215	182	170
PEAK POW MW		667	672	674	680	680	690	683	670	660	656	654	653	654	658	667	676
ENERGY GWH	2322.8	84.8	19.8	49.3	168.3	235.6	220.5	270.5	284.6	251.4	174.3	82.3	37.9	33.5	160.3	135.7	114.0
--BIG BEND--																	
EVAPORATION	103							6	20	25	22	10	5	5	11		
REG INFLOW	15340	567	132	327	1111	1553	1446	1769	1868	1662	1153	546	252	221	1070	909	756
RELEASE	15340	567	132	327	1111	1553	1446	1769	1868	1662	1153	546	252	221	1070	909	756
STORAGE	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622
ELEV FTMSL	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0
DISCH KCFS	14.1	19.0	9.5	18.3	18.7	25.3	24.3	28.8	30.4	27.9	18.8	18.4	18.1	13.9	17.4	14.8	13.6
POWER																	
AVE POWER MW		89	44	86	87	118	114	135	142	132	92	92	91	70	86	72	65
PEAK POW MW		510	509	509	509	509	509	509	509	517	538	538	538	538	538	538	529
ENERGY GWH	884.3	32.2	7.5	18.5	62.9	88.0	81.9	100.2	105.8	95.3	68.5	33.2	15.3	13.5	64.0	53.7	43.9
--FORT RANDALL--																	
NAT INFLOW	900	122	57	73	115	140	185	74	57	42	2	2	1	1	10		19
DEPLETION	80	1	1	1	4	9	12	18	15	7	1	1	0	1	3	3	3
EVAPORATION	118							8	25	31	25	10	4	4	10		
REG INFLOW	16043	688	188	399	1222	1684	1619	1817	1884	1665	1130	537	248	217	1067	906	772
RELEASE	16043	280	171	399	1222	1684	1619	1817	1884	1809	1767	842	393	239	701	689	528
STOR CHANGE	0	408	17					0	0	-144	-637	-304	-145	-22	366	217	244
STORAGE	3124	3532	3549	3549	3549	3549	3549	3549	3549	3405	2768	2464	2319	2297	2663	2880	3124
ELEV FTMSL	1350.0	1355.0	1355.2	1355.2	1355.2	1355.2	1355.2	1355.2	1355.2	1353.5	1345.1	1340.4	1337.9	1337.5	1343.5	1346.7	1350.0
DISCH KCFS	9.5	9.4	12.3	22.4	20.5	27.4	27.2	29.5	30.6	30.4	28.7	28.3	28.3	15.1	11.4	11.2	9.5
POWER																	
AVE POWER MW		78	105	189	174	231	229	249	258	254	230	214	208	110	86	88	77
PEAK POW MW		355	356	356	356	356	356	356	356	350	319	298	287	285	313	327	339
ENERGY GWH	1593.7	28.2	17.6	40.9	125.2	171.8	165.2	185.1	191.9	183.0	171.4	77.1	34.9	21.1	63.7	65.2	51.5
--GAVINS POINT--																	
NAT INFLOW	1450	92	43	55	148	174	166	86	103	77	122	50	23	27	77	79	127
DEPLETION	114	0	0	0	5	19	24	39	10	-5	2	5	2	3	10	1	
CHAN STOR	-1	0	-6	-19	4	-13	0	-4	-2	0	3	1	0	25	7	0	3
EVAPORATION	38							2	7	9	8	4	2	2	4		
REG INFLOW	17340	373	209	436	1369	1826	1761	1857	1968	1883	1882	884	412	286	770	767	658
RELEASE	17340	373	209	436	1369	1826	1761	1857	1955	1857	1882	884	412	286	770	767	697
STOR CHANGE									13	26							-39
STORAGE	358	358	358	358	358	358	358	358	371	397	397	397	397	397	397	397	358
ELEV FTMSL	1206.0	1206.0	1206.0	1206.0	1206.0	1206.0	1206.0	1206.0	1206.5	1207.5	1207.5	1207.5	1207.5	1207.5	1207.5	1207.5	1206.0
DISCH KCFS	12.5	12.5	15.0	24.4	23.0	29.7	29.6	30.2	31.8	31.2	30.6	29.7	29.7	18.0	12.5	12.5	12.5
POWER																	
AVE POWER MW		44	52	84	79	100	100	101	106	106	105	103	103	64	45	44	44
PEAK POW MW		114	114	114	114	114	114	114	115	117	117	117	117	117	78	78	76
ENERGY GWH	716.5	15.8	8.8	18.1	56.9	74.5	72.0	75.4	78.5	76.0	78.2	37.0	17.3	12.2	33.1	33.0	29.7
--GAVINS POINT - SIOUX CITY--																	
NAT INFLOW	1550	169	79	102	199	310	224	129	96	60	42	16	7	9	21	5	82
DEPLETION	262	7	3	4	22	35	31	38	36	23	10	6	3	3	13	14	14
REGULATED FLOW AT SIOUX CITY																	
KAF	18628	535	285	533	1546	2101	1954	1948	2015	1894	1914	894	417	291	778	758	765
KCFS		18.0	20.5	29.9	26.0	34.2	32.8	31.7	32.8	31.8	31.1	30.0	30.0	18.3	12.7	12.3	13.8
--TOTAL--																	
NAT INFLOW	24601	1435	669	860	2307	3493	6073	3346	1194	1113	1032	452	211	241	651	582	943
DEPLETION	2542	23	11	14	125	682	1608	1102	158	-249	-104	-143	-67	-76	-215	-209	-117
CHAN STOR	-4	64	5	-19	-19	-50	-19	5	5	4	33	1	16	-10	-17	-9	7
EVAPORATION	1626							101	318	395	339	151	70	80	173		
STORAGE	50122	51063	51442	51736	52353	53012	55504	55704	54412	53490	52406	51956	51763	51700	51598	51621	51924
SYSTEM POWER																	
AVE POWER MW		716	576	843	880	1147	1168	1254	1281	1203	971	946	914	771	827	797	752
PEAK POW MW		2243	2248	2252	2260	2265	2293	2293	2275	2268	2251	2228	2216	2214	2200	2216	2222
ENERGY GWH	8695.1	257.7	96.7	182.2	633.4	853.2	840.8	933.2	953.4	865.8	722.3	340.7	153.5	148.1	615.4	593.2	505.4
DAILY GWH		17.2	13.8	20.2	21.1	27.5	28.0	30.1	30.8	28.9	23.3	22.7	21.9	18.5	19.9	19.1	18.0

VALUES IN 1000 AF EXCEPT AS INDICATED

	28FEB10		2010										2011			
	INI-SUM	15MAR	22MAR	31MAR	30APR	31MAY	30JUN	31JUL	31AUG	30SEP	31OCT	15NOV	22NOV	30NOV	31DEC	31JAN	28FEB
--FORT PECK--																	
NAT INFLOW	7400	264	123	158	628	1210	1851	829	324	319	398	188	88	100	310	261	349
DEPLETION	442	-5	-2	-3	42	352	578	244	-60	-156	-81	-42	-20	-22	-136	-147	-100
EVAPORATION	445							27	85	106	94	42	20	23	49		
MOD INFLOW	6513	269	126	161	586	858	1273	558	299	369	385	187	87	100	397	408	449
RELEASE	5346	179	83	107	387	461	762	492	492	309	274	208	104	119	461	492	417
STOR CHANGE	1167	91	42	54	199	397	511	66	-192	59	112	-21	-17	-19	-64	-84	32
STORAGE	13477	13568	13610	13664	13863	14260	14772	14838	14645	14705	14817	14795	14779	14759	14695	14611	14644
ELEV FTMSL	2226.4	2226.9	2227.1	2227.4	2228.4	2230.4	2232.9	2233.2	2232.3	2232.6	2233.1	2233.0	2233.0	2232.9	2232.6	2232.2	2232.3
DISCH KCFS	10.0	6.0	6.0	6.0	6.5	7.5	12.8	8.0	8.0	5.2	4.5	7.0	7.5	7.5	7.5	8.0	7.5
POWER																	
AVE POWER MW		80	80	80	87	101	160	109	109	71	61	95	102	102	102	108	102
PEAK POW MW		157	157	157	158	160	161	162	161	161	162	162	161	161	161	161	161
ENERGY GWH	866.3	28.8	13.5	17.3	62.6	75.0	115.5	80.9	80.8	50.8	45.1	34.3	17.1	19.6	75.8	80.7	68.3
--GARRISON--																	
NAT INFLOW	11001	469	219	282	853	1423	2958	2066	581	497	454	192	89	102	253	237	326
DEPLETION	1030	-4	-2	-2	4	201	844	629	62	-148	-33	-119	-56	-63	-122	-98	-63
CHAN STOR	25	41			-5	-10	-53	48		28	7	-25	-5			-5	5
EVAPORATION	495							30	96	119	103	47	22	25	53		
REG INFLOW	14847	693	304	391	1231	1673	2822	1946	915	863	665	447	222	260	783	822	811
RELEASE	15396	476	222	286	1071	1599	1547	1537	1445	1012	856	414	242	286	1506	1537	1361
STOR CHANGE	-549	217	82	105	160	74	1275	409	-530	-149	-191	33	-19	-26	-723	-715	-550
STORAGE	16328	16545	16627	16732	16892	16966	18241	18650	18120	17970	17780	17812	17793	17767	17044	16329	15779
ELEV FTMSL	1831.5	1832.2	1832.5	1832.9	1833.4	1833.7	1837.9	1839.2	1837.5	1837.0	1836.4	1836.5	1836.5	1836.4	1833.9	1831.5	1829.5
DISCH KCFS	22.0	16.0	16.0	16.0	18.0	26.0	26.0	25.0	23.5	17.0	13.9	13.9	17.4	18.0	24.5	25.0	24.5
POWER																	
AVE POWER MW		192	193	193	218	314	318	312	293	211	173	172	215	222	299	300	290
PEAK POW MW		449	450	451	453	454	470	475	468	466	464	465	464	464	455	446	439
ENERGY GWH	2275.4	69.2	32.4	41.7	156.8	233.6	229.3	232.0	217.9	152.1	128.4	62.0	36.1	42.7	222.6	223.5	195.1
--OAHE--																	
NAT INFLOW	2300	317	148	190	364	236	689	162	33	118	14	5	2	3	-20		40
DEPLETION	666	24	11	14	49	70	142	169	112	27	-10	1	0	1	12	17	27
CHAN STOR	-12	25			-8	-33		4	6	27	13		-15	-3	-29	-2	2
EVAPORATION	459							30	91	111	95	42	19	22	49		
REG INFLOW	16559	794	359	461	1378	1732	2094	1505	1281	1019	798	376	209	263	1397	1518	1376
RELEASE	16274	449	250	381	1230	1657	1523	1855	1967	1764	1255	595	275	239	1112	889	833
STOR CHANGE	286	345	108	80	148	74	572	-350	-686	-745	-457	-219	-66	24	285	629	542
STORAGE	17015	17360	17469	17549	17697	17771	18343	17993	17307	16562	16106	15887	15821	15845	16130	16758	17301
ELEV FTMSL	1601.4	1602.6	1603.0	1603.2	1603.7	1604.0	1605.9	1604.7	1602.4	1599.8	1598.1	1597.3	1597.1	1597.2	1598.2	1600.5	1602.4
DISCH KCFS	13.6	15.1	18.0	21.3	20.7	27.0	25.6	30.2	32.0	29.6	20.4	20.0	19.8	15.0	18.1	14.5	15.0
POWER																	
AVE POWER MW		190	227	269	261	341	325	384	403	369	252	245	241	184	222	179	188
PEAK POW MW		682	684	685	688	689	700	693	681	667	659	655	654	654	659	671	681
ENERGY GWH	2466.7	68.2	38.2	58.1	188.1	253.4	234.3	285.5	299.8	265.4	187.2	88.2	40.6	35.3	164.9	133.3	126.3
--BIG BEND--																	
EVAPORATION	103							6	20	25	22	10	5	5	11		
REG INFLOW	16170	449	250	381	1230	1657	1523	1848	1947	1739	1233	585	270	233	1101	889	833
RELEASE	16170	449	250	381	1230	1657	1523	1848	1947	1739	1233	585	270	233	1101	889	833
STORAGE	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622
ELEV FTMSL	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0
DISCH KCFS	13.6	15.1	18.0	21.3	20.7	27.0	25.6	30.1	31.7	29.2	20.1	19.7	19.4	14.7	17.9	14.5	15.0
POWER																	
AVE POWER MW		72	85	100	97	126	120	141	148	138	98	99	98	74	88	71	72
PEAK POW MW		517	510	509	509	509	509	509	509	517	538	538	538	538	538	538	529
ENERGY GWH	932.3	25.8	14.2	21.6	69.7	93.9	86.2	104.7	110.3	99.7	73.2	35.5	16.4	14.2	65.8	52.7	48.4
--FORT RANDALL--																	
NAT INFLOW	900	122	57	73	115	140	185	74	57	42	2	2	1	1	10		19
DEPLETION	80	1	1	1	4	9	12	18	15	7	1	1	0	1	3	3	3
EVAPORATION	118							8	25	31	25	10	4	4	10		
REG INFLOW	16873	570	307	454	1341	1788	1696	1897	1964	1742	1209	576	266	230	1098	886	849
RELEASE	16873	280	189	437	1341	1788	1696	1897	1964	1887	1847	880	411	252	732	719	555
STOR CHANGE	0	290	118	17				0	0	-144	-637	-304	-145	-22	366	167	294
STORAGE	3124	3414	3532	3549	3549	3549	3549	3549	3549	3405	2768	2464	2319	2297	2663	2830	3124
ELEV FTMSL	1350.0	1353.6	1355.0	1355.2	1355.2	1355.2	1355.2	1355.2	1355.2	1353.5	1345.1	1340.4	1337.9	1337.5	1343.5	1346.0	1350.0
DISCH KCFS	9.5	9.4	13.6	24.5	22.5	29.1	28.5	30.8	31.9	31.7	30.0	29.6	29.6	15.9	11.9	11.7	10.0
POWER																	
AVE POWER MW		78	115	206	191	245	240	260	269	265	241	224	217	116	89	91	80
PEAK POW MW		351	355	356	356	356	356	356	356	350	319	298	287	285	313	324	339
ENERGY GWH	1674.5	28.1	19.3	44.6	137.2	182.3	172.9	193.1	199.9	190.7	179.0	80.6	36.4	22.2	66.5	67.9	54.0
--GAVINS POINT--																	
NAT INFLOW	1450	92	43	55	148	174	166	86	103	77	122	50	23	27	77	79	127
DEPLETION	114	0	0	0	5	19	24	39	10	-5	2	5	2	3	10	1	
CHAN STOR	-2	0	-8	-21	4	-13	1	-5	-2	0	3	1	0	25	7	0	3
EVAPORATION	38							2	7	9	8	4	2	2	4		
REG INFLOW	18169	373	224	472	1487	1931	1839	1937	2048	1960	1961	922	430	299	802	798	686
RELEASE	18169	373	224	472	1487	1931	1839	1937	2035	1934	1961	922	430	299	802	798	725
STOR CHANGE									13	26							-39
STORAGE	358	358	358	358	358	358	358	358	371	397	397	397	397	397	397	397	358
ELEV FTMSL	1206.0	1206.0	1206.0	1206.0	1206.0	1206.0	1206.0	1206.0	1206.0	1206.5	1207.5	1207.5	1207.5	1207.5	1207.5	1207.5	1206.0
DISCH KCFS	12.5	12.5	16.2	26.4	25.0	31.4	30.9	31.5	33.1	32.5	31.9	31.0	31.0	18.9	13.0	13.0	13.0
POWER																	
AVE POWER MW		44	56	90	86	104	103	104	108	109	108	106	106	67	46	46	46
PEAK POW MW		114	114	114	114	114	114	114	115	117	117	117	117	117	78	78	76
ENERGY GWH	743.2	15.8	9.4	19.5	61.6	77.5	74.2	77.7	80.7	78.1	80.4	38.2	17.8	12.8	34.4	34.3	30.9
--GAVINS POINT - SIOUX CITY--																	
NAT INFLOW	1550	169	79	102	199	310	224	129	96	60	42	16	7	9	21	5	82
DEPLETION	263	7	3	4	22	35	31	38	36	24	10	6	3	3	13	14	14
REGULATED FLOW AT SIOUX CITY																	
KAF	19456	535	300	569	1664	2206	2032	2028	2095	1970	1993	932	435	304	810	789	793
KCFS		18.0	21.6	31.9	28.0	35.9	34.1	33.0	34.1	33.1	32.4	31.3	31.3	19.2	13.2	12.8	14.3
--TOTAL--																	
NAT INFLOW	24601	1435	669	860	2307	3493	6073	3346	1194	1113	1032	452	211	241	651	582	943
DEPLETION	2595	23	11	14	126	686	1631	1137	175	-251	-111	-148	-69	-79	-220	-210	-119
CHAN STOR	10	66	8	-21	-10	-56	-52	47	4	55	24	-25	-20	23	-21	-7	10
EVAPORATION	1657							103	324	402	346	154	71	81	176		
STORAGE	51924	52867	53217	53474	53981	54526	56884	57009	55614	54661	53488	52977	52730	52687	52551	52547	52827
SYSTEM POWER																	
AVE POWER MW		655	756	939	939	1231	1267	1309	1330	1162	932	941	979	765	847	796	778
PEAK POW MW		2270	2271	2274	2279	2283	2310	2309	2291	2280	2259	2234	2221	2220	2204	2218	2225
ENERGY GWH	8958.4	235.9	127.0	202.8	675.9	915.6	912.4	973.8	989.4	836.8	693.3	338.7	164.5	146.8	630.0	592.4	523.0
DAILY GWH		15.7	18.1	22.5	22.5	29.5	30.4	31.4	31.9	27.9	22.4	22.6	23.5	18.3	20.3	19.1	18.7

VALUES IN 1000 AF EXCEPT AS INDICATED

28FEB11		2011											2012			
	INI-SUM	15MAR	22MAR	31MAR	30APR	31MAY	30JUN	31JUL	31AUG	30SEP	31OCT	15NOV	22NOV	30NOV	31DEC	31JAN	29FEB
--FORT PECK--																	
NAT INFLOW	7400	264	123	158	628	1210	1851	829	324	319	398	188	88	100	310	261	349
DEPLETION	454	-5	-2	-3	42	353	582	251	-55	-156	-80	-42	-19	-22	-134	-146	-110
EVAPORATION	454							28	87	109	95	43	20	23	50		
MOD INFLOW	6492	269	126	161	586	857	1269	550	292	366	383	186	87	99	394	407	459
RELEASE	6463	179	69	89	476	553	1083	615	553	476	357	173	81	135	553	553	518
STOR CHANGE	29	91	56	72	110	304	186	-65	-261	-110	26	13	6	-36	-159	-146	-59
STORAGE	14644	14734	14791	14863	14973	15276	15462	15398	15136	15027	15053	15066	15072	15037	14878	14731	14673
ELEV FTMSL	2232.3	2232.8	2233.0	2233.4	2233.9	2235.3	2236.2	2235.9	2234.7	2234.1	2234.3	2234.3	2234.4	2234.2	2233.4	2232.7	2232.5
DISCH KCFS	7.5	6.0	5.0	5.0	8.0	9.0	18.2	10.0	9.0	8.0	5.8	5.8	5.8	8.5	9.0	9.0	9.0
POWER																	
AVE POWER MW		82	68	68	109	123	163	137	123	109	79	79	79	116	123	122	122
PEAK POW MW		161	162	162	162	163	163	164	163	162	162	162	162	162	162	161	161
ENERGY GWH	1004.7	29.3	11.4	14.7	78.4	91.4	117.3	101.8	91.6	78.6	59.0	28.5	13.3	22.3	91.2	91.0	85.0
--GARRISON--																	
NAT INFLOW	11001	469	219	282	853	1423	2958	2066	581	497	454	192	89	102	253	237	326
DEPLETION	1246	-3	-2	-2	4	201	854	645	68	-151	-37	-97	-45	-52	-70	-46	-21
CHAN STOR	-18	15	10		-31	-10	-93	81	10	10	22	0	0	-27	-5		
EVAPORATION	509							31	97	122	107	48	23	26	55		
REG INFLOW	15692	667	300	373	1294	1765	3094	2087	979	1012	762	413	193	236	817	836	865
RELEASE	14757	476	222	321	1190	1476	1428	1414	1353	924	781	378	236	286	1445	1476	1352
STOR CHANGE	935	191	78	52	104	289	1665	672	-374	88	-18	35	-43	-49	-628	-639	-487
STORAGE	15779	15970	16048	16099	16203	16493	18158	18831	18457	18545	18526	18561	18518	18469	17840	17201	16714
ELEV FTMSL	1829.5	1830.2	1830.5	1830.6	1831.0	1832.0	1837.7	1839.8	1838.6	1838.9	1838.8	1838.9	1838.8	1838.7	1836.6	1834.5	1832.8
DISCH KCFS	24.5	16.0	16.0	18.0	20.0	24.0	24.0	23.0	22.0	15.5	12.7	12.7	17.0	18.0	23.5	24.0	23.5
POWER																	
AVE POWER MW		190	190	214	238	286	293	287	276	195	160	160	213	225	292	294	284
PEAK POW MW		441	442	443	444	448	469	477	472	473	473	473	473	472	465	457	451
ENERGY GWH	2189.5	68.3	32.0	46.3	171.4	213.0	210.6	213.8	205.1	140.2	118.8	57.5	35.8	43.3	216.9	218.6	197.9
--OAHE--																	
NAT INFLOW	2300	317	148	190	364	236	689	162	33	118	14	5	2	3	-20		40
DEPLETION	681	24	11	14	49	71	145	173	116	28	-10	1	0	1	12	18	28
CHAN STOR	2	36		-8	-8	-16		4	4	27	12		-19	-4	-25	-2	2
EVAPORATION	454							30	91	110	93	41	19	22	47		
REG INFLOW	15924	804	359	489	1497	1624	1972	1378	1183	930	724	341	200	262	1341	1455	1366
RELEASE	16690	485	212	399	1277	1681	1528	1861	1973	1770	1261	598	276	303	1176	933	958
STOR CHANGE	-766	320	147	89	220	-57	444	-483	-790	-839	-537	-257	-76	-41	165	522	408
STORAGE	17301	17621	17768	17857	18077	18020	18464	17981	17191	16352	15814	15557	15481	15440	15604	16127	16535
ELEV FTMSL	1602.4	1603.5	1604.0	1604.3	1605.0	1604.8	1606.3	1604.7	1602.0	1599.0	1597.1	1596.1	1595.8	1595.7	1596.3	1598.2	1599.7
DISCH KCFS	15.0	16.3	15.3	22.4	21.5	27.3	25.7	30.3	32.1	29.7	20.5	20.1	19.9	19.1	19.1	15.2	16.7
POWER																	
AVE POWER MW		206	194	284	273	347	328	385	404	369	252	244	241	231	232	186	206
PEAK POW MW		687	689	691	695	694	702	693	679	663	653	649	647	647	650	659	667
ENERGY GWH	2525.0	74.0	32.5	61.2	196.5	258.5	235.9	286.8	300.4	265.4	187.1	88.0	40.5	44.3	172.6	138.1	143.1
--BIG BEND--																	
EVAPORATION	103							6	20	25	22	10	5	5	11		
REG INFLOW	16587	485	212	399	1277	1681	1528	1855	1954	1745	1239	588	271	297	1165	933	958
RELEASE	16587	485	212	399	1277	1681	1528	1855	1954	1745	1239	588	271	297	1165	933	958
STORAGE	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622
ELEV FTMSL	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0
DISCH KCFS	15.0	16.3	15.3	22.4	21.5	27.3	25.7	30.2	31.8	29.3	20.2	19.8	19.5	18.7	18.9	15.2	16.7
POWER																	
AVE POWER MW		77	72	105	100	128	120	141	149	139	99	99	98	94	94	74	80
PEAK POW MW		516	510	509	509	509	509	509	509	517	538	538	538	538	538	538	529
ENERGY GWH	956.7	27.7	12.0	22.6	72.4	95.2	86.6	105.0	110.6	100.1	73.5	35.7	16.5	18.1	69.6	55.4	55.6
--FORT RANDALL--																	
NAT INFLOW	900	122	57	73	115	140	185	74	57	42	2	2	1	1	10		19
DEPLETION	80	1	1	1	4	9	12	18	15	7	1	1	0	1	3	3	3
EVAPORATION	118							8	25	31	25	10	4	4	10		
REG INFLOW	17290	606	268	472	1388	1812	1701	1903	1970	1748	1216	579	268	293	1162	930	974
RELEASE	17290	293	173	455	1388	1812	1701	1903	1970	1892	1853	883	413	315	796	793	650
STOR CHANGE	0	312	96	17				0	0	-144	-637	-304	-145	-22	366	137	324
STORAGE	3124	3436	3532	3549	3549	3549	3549	3549	3549	3405	2768	2464	2319	2297	2663	2800	3124
ELEV FTMSL	1350.0	1353.9	1355.0	1355.2	1355.2	1355.2	1355.2	1355.2	1355.2	1353.5	1345.1	1340.4	1337.9	1337.5	1343.5	1345.6	1350.0
DISCH KCFS	10.0	9.9	12.4	25.5	23.3	29.5	28.6	30.9	32.0	31.8	30.1	29.7	29.7	19.9	12.9	12.9	11.3
POWER																	
AVE POWER MW		82	105	215	197	248	241	260	269	266	241	225	218	144	97	100	91
PEAK POW MW		352	355	356	356	356	356	356	356	350	319	298	287	285	313	322	339
ENERGY GWH	1713.6	29.5	17.7	46.4	141.9	184.6	173.4	193.7	200.5	191.2	179.6	80.9	36.6	27.7	72.2	74.7	63.0
--GAVINS POINT--																	
NAT INFLOW	1450	92	43	55	148	174	166	86	103	77	122	50	23	27	77	79	127
DEPLETION	114	0	0	0	5	19	24	39	10	-5	2	5	2	3	10	1	
CHAN STOR	-4	0	-5	-25	4	-12	2	-5	-2	0	3	1	0	18	13	0	3
EVAPORATION	38							2	7	9	8	4	2	2	4		
REG INFLOW	18584	386	211	486	1535	1955	1845	1943	2054	1966	1968	925	432	355	871	871	780
RELEASE	18584	386	211	486	1535	1955	1845	1943	2041	1940	1968	925	432	355	871	871	819
STOR CHANGE									13	26							-39
STORAGE	358	358	358	358	358	358	358	358	371	397	397	397	397	397	397	397	358
ELEV FTMSL	1206.0	1206.0	1206.0	1206.0	1206.0	1206.0	1206.0	1206.0	1206.5	1207.5	1207.5	1207.5	1207.5	1207.5	1207.5	1207.5	1206.0
DISCH KCFS	13.0	13.0	15.2	27.2	25.8	31.8	31.0	31.6	33.2	32.6	32.0	31.1	31.1	22.4	14.2	14.2	14.2
POWER																	
AVE POWER MW		45	53	93	88	105	103	105	109	109	108	106	106	79	50	50	50
PEAK POW MW		114	114	114	114	114	114	114	115	117	117	117	117	117	78	78	76
ENERGY GWH	759.7	16.4	8.9	20.0	63.5	78.2	74.3	77.8	80.8	78.3	80.6	38.2	17.8	15.1	37.4	37.4	34.9
--GAVINS POINT - SIOUX CITY--																	
NAT INFLOW	1550	169	79	102	199	310	224	129	96	60	42	16	7	9	21	5	82
DEPLETION	266	7	3	4	22	36	31	39	36	24	11	6	3	3	13	14	14
REGULATED FLOW AT SIOUX CITY																	
KAF	19868	549	287	583	1712	2229	2038	2033	2101	1976	1999	935	436	361	879	862	887
KCFS		18.5	20.7	32.7	28.8	36.3	34.2	33.1	34.2	33.2	32.5	31.4	31.4	22.7	14.3	14.0	15.4
--TOTAL--																	
NAT INFLOW	24601	1435	669	860	2307	3493	6073	3346	1194	1113	1032	452	211	241	651	582	943
DEPLETION	2841	23	11	14	126	689	1648	1165	190	-253	-113	-126	-59	-67	-166	-156	-86
CHAN STOR	-19	51	5	-33	-35	-38	-92	81	12	38	37	1	-19	-13	-17	-2	5
EVAPORATION	1675							104	327	407	350	156	72	82	178		
STORAGE	52827	53741	54117	54347	54781	55318	57613	57738	56326	55347	54180	53667	53409	53261	53004	52878	53025
SYSTEM POWER																	
AVE POWER MW		681	682	978	1006	1238	1247	1316	1329	1186	939	913	956	890	887	827	833
PEAK POW MW		2271	2273	2275	2281	2285	2313	2313	2294	2283	2263	2238	2225	2221	2205	2215	2223
ENERGY GWH	9149.3	245.2	114.5	211.3	724.1	921.0	898.1	978.9	989.0	853.8	698.7	328.9	160.5	170.8	659.9	615.2	579.4
DAILY GWH		16.3	16.4	23.5	24.1	29.7	29.9	31.6	31.9	28.5	22.5	21.9	22.9	21.4	21.3	19.8	20.0

TIME OF STUDY 11:09:36 SHORTEN NAVIGATION SEASON 33-DAYS STUDY NO 17

VALUES IN 1000 AF EXCEPT AS INDICATED

	28FEB07		2007										2008			
	INI-SUM	15MAR	22MAR	31MAR	30APR	31MAY	30JUN	31JUL	31AUG	30SEP	31OCT	15NOV	22NOV	30NOV	31DEC	31JAN	29FEB
--FORT PECK--																	
NAT INFLOW	6556	264	123	158	574	1011	1589	692	287	275	354	183	85	98	322	231	309
DEPLETION	541	13	6	8	91	323	553	202	-52	-141	-68	-33	-15	-17	-109	-124	-95
EVAPORATION	424							26	81	102	89	40	19	21	46		
MOD INFLOW	5591	252	117	151	483	688	1036	464	258	314	333	175	82	93	385	355	404
RELEASE	5104	134	62	80	357	430	506	492	461	367	308	149	83	111	492	553	518
STOR CHANGE	487	118	55	71	126	258	530	-28	-203	-52	25	26	-2	-18	-107	-198	-114
STORAGE	9047	9165	9220	9290	9416	9674	10204	10176	9973	9921	9946	9973	9971	9953	9846	9648	9534
ELEV FTMSL	2200.4	2201.1	2201.5	2202.0	2202.8	2204.4	2207.8	2207.6	2206.3	2206.0	2206.2	2206.3	2206.3	2206.2	2205.5	2204.3	2203.5
DISCH KCFS	8.0	4.5	4.5	4.5	6.0	7.0	8.5	8.0	7.5	6.2	5.0	5.0	6.0	7.0	8.0	9.0	9.0
POWER																	
AVE POWER MW		53	53	54	71	84	103	98	91	75	61	61	73	85	97	108	108
PEAK POW MW		129	129	130	131	133	137	136	135	135	135	135	135	135	134	133	132
ENERGY GWH	745.7	19.2	9.0	11.6	51.5	62.4	74.2	72.7	68.0	53.9	45.3	21.9	12.3	16.3	72.1	80.6	75.0
--GARRISON--																	
NAT INFLOW	10069	475	221	285	763	1282	2701	1891	532	446	428	175	82	93	238	177	280
DEPLETION	1056	26	12	16	54	174	785	562	64	-132	-10	-110	-51	-58	-115	-92	-69
CHAN STOR	-11	39			-17	-11	-16	5	5	14	12		-11	-11	-11	-11	
EVAPORATION	502							30	97	121	105	47	22	25	54		
REG INFLOW	13604	622	272	349	1049	1527	2405	1796	838	838	653	386	183	227	780	812	867
RELEASE	13016	446	208	268	952	1138	1220	1230	1168	977	786	380	167	286	1230	1353	1208
STOR CHANGE	588	175	63	82	97	390	1185	566	-331	-139	-133	6	17	-59	-450	-541	-341
STORAGE	10866	11041	11105	11186	11284	11673	12859	13425	13095	12955	12823	12828	12845	12786	12336	11795	11454
ELEV FTMSL	1809.7	1810.5	1810.8	1811.2	1811.6	1813.3	1818.3	1820.6	1819.3	1818.7	1818.2	1818.2	1818.3	1818.0	1816.2	1813.9	1812.4
DISCH KCFS	19.0	15.0	15.0	15.0	16.0	18.5	20.5	20.0	19.0	16.4	12.8	12.8	12.0	18.0	20.0	22.0	21.0
POWER																	
AVE POWER MW		155	156	156	167	194	220	221	210	181	141	140	132	197	217	235	221
PEAK POW MW		370	371	372	373	380	398	406	401	399	397	397	398	397	390	382	376
ENERGY GWH	1694.9	55.8	26.2	33.7	120.2	144.5	158.6	164.1	156.5	130.3	104.6	50.5	22.2	37.8	161.4	174.7	154.0
--OAHE--																	
NAT INFLOW	1761	187	87	112	278	158	701	124	29	79	11				-42	-7	44
DEPLETION	625	23	11	14	47	67	132	156	103	25	-9	2	1	1	12	16	26
CHAN STOR	-11	21		0	-5	-13	-10	3	5	14	19	0	4	-32	-11	-11	5
EVAPORATION	422							26	81	101	88	39	18	21	46		
REG INFLOW	13719	631	285	366	1178	1216	1778	1174	1019	944	736	339	152	232	1119	1319	1231
RELEASE	13116	208	152	352	1211	1609	1207	1707	1500	576	1296	224	119	133	1103	821	897
STOR CHANGE	603	423	133	15	-33	-393	571	-533	-482	367	-560	115	33	98	16	498	334
STORAGE	11407	11830	11963	11978	11945	11552	12123	11590	11108	11475	10915	11031	11064	11162	11178	11676	12010
ELEV FTMSL	1578.5	1580.5	1581.2	1581.2	1581.1	1579.2	1581.9	1579.4	1577.1	1578.9	1576.1	1576.7	1576.9	1577.4	1577.4	1579.8	1581.4
DISCH KCFS	13.1	7.0	10.9	19.7	20.4	26.2	20.3	27.8	24.4	9.7	21.1	7.5	8.6	8.4	17.9	13.3	15.6
POWER																	
AVE POWER MW		78	122	219	227	289	225	307	266	106	229	82	93	92	195	147	173
PEAK POW MW		569	573	573	572	562	577	563	551	561	546	549	550	553	553	566	574
ENERGY GWH	1747.9	28.0	20.4	47.4	163.1	214.9	162.1	228.6	198.2	76.5	170.7	29.5	15.6	17.6	145.4	109.2	120.7
--BIG BEND--																	
EVAPORATION	129							8	24	31	27	12	6	7	14		
REG INFLOW	12988	208	152	352	1211	1609	1207	1699	1476	546	1269	212	113	127	1089	821	897
RELEASE	12988	208	152	352	1211	1609	1207	1699	1476	546	1269	212	113	127	1089	821	897
STORAGE	1621	1621	1621	1621	1621	1621	1621	1621	1621	1621	1621	1621	1621	1621	1621	1621	1621
ELEV FTMSL	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0
DISCH KCFS	13.1	7.0	10.9	19.7	20.4	26.2	20.3	27.6	24.0	9.2	20.6	7.1	8.1	8.0	17.7	13.3	15.6
POWER																	
AVE POWER MW		33	51	92	95	122	95	129	114	46	104	36	41	41	88	66	75
PEAK POW MW		513	510	509	509	509	509	509	518	538	538	538	538	538	538	538	529
ENERGY GWH	753.5	11.9	8.6	19.9	68.6	91.1	68.4	96.2	84.5	33.4	77.1	13.0	6.9	7.8	65.1	48.8	52.1
--FORT RANDALL--																	
NAT INFLOW	643	88	41	53	82	66	167	33	63	30	2				6	-6	19
DEPLETION	80	1	1	1	4	9	12	18	15	7	1	1	0	1	3	3	3
EVAPORATION	129							10	31	32	22	10	5	5	13		
REG INFLOW	13413	295	192	403	1289	1666	1362	1704	1493	528	1247	202	108	121	1079	812	913
RELEASE	13714	223	155	386	1289	1666	1362	1704	1667	1606	1247	202	108	121	713	695	569
STOR CHANGE	-301	71	37	17				0	-174	-1079	0	0	0	0	366	117	344
STORAGE	3424	3495	3532	3549	3549	3549	3549	3549	3375	2296	2296	2296	2296	2296	2662	2779	3123
ELEV FTMSL	1353.7	1354.6	1355.0	1355.2	1355.2	1355.2	1355.2	1355.2	1353.1	1337.5	1337.5	1337.5	1337.5	1337.5	1343.5	1345.2	1350.0
DISCH KCFS	9.9	7.5	11.1	21.6	21.7	27.1	22.9	27.7	27.1	27.0	20.3	6.8	7.8	7.6	11.6	11.3	9.9
POWER																	
AVE POWER MW		64	95	183	183	228	194	234	227	209	147	50	57	56	87	88	79
PEAK POW MW		354	355	356	356	356	356	356	349	284	285	285	285	285	313	320	339
ENERGY GWH	1345.8	22.9	15.9	39.5	131.9	169.9	139.4	173.8	168.7	150.7	109.5	18.0	9.6	10.7	64.8	65.4	55.2
--GAVINS POINT--																	
NAT INFLOW	1335	98	46	59	132	147	153	87	85	62	112	50	23	27	75	73	107
DEPLETION	114	0	0	0	5	19	24	39	10	-5	2	5	2	3	10	1	
CHAN STOR	-1	5	-7	-20	0	-10	8	-9	1	0	12	25	-2	0	-7	1	3
EVAPORATION	47							3	9	11	10	5	2	2	5		
REG INFLOW	14887	326	193	425	1416	1783	1500	1740	1735	1662	1359	268	125	143	766	767	679
RELEASE	14887	326	193	425	1416	1783	1500	1740	1722	1636	1359	268	125	143	766	767	718
STOR CHANGE									13	26							-39
STORAGE	358	358	358	358	358	358	358	358	371	397	397	397	397	397	397	397	358
ELEV FTMSL	1206.0	1206.0	1206.0	1206.0	1206.0	1206.0	1206.0	1206.0	1206.5	1207.5	1207.5	1207.5	1207.5	1207.5	1207.5	1207.5	1206.0
DISCH KCFS	12.5	11.0	13.9	23.8	23.8	29.0	25.2	28.3	28.0	27.5	22.1	9.0	9.0	9.0	12.5	12.5	12.5
POWER																	
AVE POWER MW		38	49	82	82	99	86	96	96	95	78	32	32	32	44	44	44
PEAK POW MW		114	114	114	114	114	114	114	115	117	117	117	117	117	78	78	76
ENERGY GWH	622.9	13.8	8.2	17.6	58.7	73.3	62.1	71.6	71.3	68.7	57.9	11.6	5.4	6.2	32.9	33.0	30.6
--GAVINS POINT - SIOUX CITY--																	
NAT INFLOW	1135	145	68	87	113	219	158	95	70	44	31	16	7	9	16	-3	60
DEPLETION	251	6	3	4	21	35	30	37	34	22	10	6	3	3	12	13	13
REGULATED FLOW AT SIOUX CITY																	
KAF	15771	465	258	508	1508	1967	1628	1798	1758	1658	1380	278	130	148	770	751	765
KCFS		15.6	18.6	28.5	25.3	32.0	27.4	29.2	28.6	27.9	22.4	9.4	9.4	9.4	12.5	12.2	13.3
--TOTAL--																	
NAT INFLOW	21499	1256	586	753	1942	2883	5469	2922	1066	936	938	424	198	226	615	465	819
DEPLETION	2667	69	32	41	222	627	1536	1014	174	-224	-74	-129	-60	-69	-187	-183	-122
CHAN STOR	-31	65	-7	-20	-22	-34	-19	-1	12	20	43	26	-8	-42	-29	-21	8
EVAPORATION	1653							103	323	398	342	154	72	82	179		
STORAGE	36722	37510	37799	37982	38172	38427	40714	40719	39542	38665	37998	38146	38194	38215	38040	37916	38099
SYSTEM POWER																	
AVE POWER MW		421	525	786	825	1016	923	1085	1004	713	759	401	428	502	728	688	701
PEAK POW MW		2049	2053	2054	2056	2055	2091	2086	2070	2033	2018	2022	2023	2024	2006	2016	2026
ENERGY GWH	6910.8	151.5	88.3	169.8	594.1	756.2	664.6	807.0	747.1	513.5	564.9	144.4	72.0	96.5	541.6	511.7	487.6
DAILY GWH		10.1	12.6	18.9	19.8	24.4	22.2	26.0	24.1	17.1	18.2	9.6	10.3	12.1	17.5	16.5	16.8

TIME OF STUDY 11:09:36 SHORTEN NAVIGATION SEASON 31-DAYS STUDY NO 18

VALUES IN 1000 AF EXCEPT AS INDICATED

	28FEB08		2008										2009			
	INI-SUM	15MAR	22MAR	31MAR	30APR	31MAY	30JUN	31JUL	31AUG	30SEP	31OCT	15NOV	22NOV	30NOV	31DEC	31JAN	28FEB
--FORT PECK--																	
NAT INFLOW	6613	267	124	160	579	1019	1603	698	289	278	357	185	86	98	325	233	312
DEPLETION	420	-16	-7	-10	35	316	548	210	-48	-142	-74	-34	-16	-18	-112	-126	-86
EVAPORATION	436							26	83	104	91	41	19	22	48		
MOD INFLOW	5757	283	132	170	544	703	1055	462	254	316	340	177	83	94	389	359	398
RELEASE	5285	134	62	80	417	492	536	523	492	357	288	139	62	127	523	553	500
STOR CHANGE	473	149	69	89	127	211	519	-61	-238	-41	52	38	20	-33	-133	-194	-102
STORAGE	9534	9683	9752	9841	9969	10180	10699	10638	10400	10359	10411	10449	10469	10436	10303	10108	10007
ELEV FTMSL	2203.5	2204.5	2204.9	2205.5	2206.3	2207.6	2210.8	2210.4	2209.0	2208.7	2209.1	2209.3	2209.4	2209.2	2208.4	2207.2	2206.5
DISCH KCFS	9.0	4.5	4.5	4.5	7.0	8.0	9.0	8.5	8.0	6.0	4.7	4.7	4.5	8.0	8.5	9.0	9.0
POWER																	
AVE POWER MW		54	54	54	85	97	111	105	99	74	58	58	56	99	104	110	109
PEAK POW MW		133	133	134	135	136	140	140	138	138	138	138	138	138	137	136	135
ENERGY GWH	783.7	19.5	9.1	11.8	61.1	72.5	79.7	78.4	73.5	53.2	42.9	20.8	9.3	18.9	77.7	81.8	73.5
--GARRISON--																	
NAT INFLOW	10134	478	223	287	768	1290	2718	1903	535	449	431	176	82	94	240	178	282
DEPLETION	1001	-4	-2	-2	-2	226	782	585	69	-117	-32	-114	-53	-61	-117	-94	-64
CHAN STOR	0	50			-27	-11	-11	5	5	21	14		2	-37	-5	-5	
EVAPORATION	515							31	99	124	108	49	23	26	56		
REG INFLOW	13903	666	287	369	1159	1545	2461	1815	864	820	657	380	177	218	819	820	846
RELEASE	13324	476	194	250	1012	1168	1279	1291	1261	952	828	401	208	286	1230	1322	1166
STOR CHANGE	579	190	93	120	148	377	1181	523	-397	-132	-171	-20	-31	-68	-411	-502	-320
STORAGE	11454	11643	11736	11856	12003	12380	13561	14085	13688	13556	13386	13365	13334	13266	12855	12353	12033
ELEV FTMSL	1812.4	1813.2	1813.6	1814.1	1814.7	1816.3	1821.1	1823.2	1821.6	1821.1	1820.4	1820.4	1820.2	1820.0	1818.3	1816.2	1814.9
DISCH KCFS	21.0	16.0	14.0	14.0	17.0	19.0	21.5	21.0	20.5	16.0	13.5	13.5	15.0	18.0	20.0	21.5	21.0
POWER																	
AVE POWER MW		169	148	149	181	204	236	236	231	179	150	150	167	200	220	233	225
PEAK POW MW		379	381	383	385	391	408	416	410	408	406	405	405	404	398	390	385
ENERGY GWH	1766.6	60.7	24.9	32.2	130.5	151.7	169.7	175.4	171.6	129.1	112.0	54.0	28.0	38.3	163.7	173.5	151.3
--OAHE--																	
NAT INFLOW	1794	190	89	114	283	161	714	127	30	80	11				-43	-7	45
DEPLETION	640	23	11	14	48	68	135	160	106	27	-10	1	0	1	12	17	27
CHAN STOR	0	26	10		-15	-10	-13	2	3	23	13		-8	-16	-10	-8	3
EVAPORATION	441							27	84	106	92	41	19	22	48		
REG INFLOW	14037	669	282	350	1231	1251	1846	1233	1103	922	770	359	181	247	1116	1290	1187
RELEASE	13444	409	249	350	1208	1600	1203	1706	1497	679	1269	221	119	133	1102	977	722
STOR CHANGE	593	259	34	0	23	-349	643	-472	-395	244	-499	137	62	114	14	313	465
STORAGE	12010	12269	12303	12303	12326	11977	12620	12148	11753	11996	11497	11635	11696	11811	11824	12138	12603
ELEV FTMSL	1581.4	1582.6	1582.7	1582.7	1582.8	1581.2	1584.1	1582.0	1580.2	1581.3	1579.0	1579.6	1579.9	1580.5	1580.5	1582.0	1584.1
DISCH KCFS	15.6	13.8	17.9	19.6	20.3	26.0	20.2	27.7	24.4	11.4	20.6	7.4	8.5	8.4	17.9	15.9	13.0
POWER																	
AVE POWER MW		154	201	221	228	291	227	312	271	127	228	82	95	93	199	177	147
PEAK POW MW		580	581	581	581	573	588	577	567	573	561	565	566	569	569	577	588
ENERGY GWH	1817.7	55.5	33.8	47.6	164.3	216.2	163.5	231.8	201.3	91.5	169.9	29.6	15.9	17.9	148.0	131.9	98.6
--BIG BEND--																	
EVAPORATION	129							8	24	31	27	12	6	7	14		
REG INFLOW	13315	409	249	350	1208	1600	1203	1698	1473	648	1242	209	113	127	1088	977	722
RELEASE	13315	409	249	350	1208	1600	1203	1698	1473	648	1242	209	113	127	1088	977	722
STORAGE	1621	1621	1621	1621	1621	1621	1621	1621	1621	1621	1621	1621	1621	1621	1621	1621	1621
ELEV FTMSL	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0
DISCH KCFS	15.6	13.8	17.9	19.6	20.3	26.0	20.2	27.6	24.0	10.9	20.2	7.0	8.1	8.0	17.7	15.9	13.0
POWER																	
AVE POWER MW		65	84	92	95	122	95	129	113	55	101	36	41	40	87	77	62
PEAK POW MW		517	510	509	509	509	509	509	518	538	538	538	538	538	538	538	529
ENERGY GWH	772.2	23.4	14.1	19.8	68.4	90.6	68.1	96.2	84.3	39.6	75.5	12.8	6.9	7.8	65.1	57.5	41.9
--FORT RANDALL--																	
NAT INFLOW	659	90	42	54	84	67	171	34	65	31	2				7	-7	20
DEPLETION	80	1	1	1	4	9	12	18	15	7	1	1	0	1	3	3	3
EVAPORATION	130							10	31	33	23	10	5	5	13		
REG INFLOW	13758	497	290	403	1288	1658	1362	1704	1492	631	1220	199	108	121	1079	967	739
RELEASE	13757	223	154	386	1288	1658	1362	1704	1666	1606	1323	199	108	121	713	695	550
STOR CHANGE	1	274	135	17	0	0		0	-174	-975	-103	0	0	0	366	272	189
STORAGE	3123	3397	3532	3549	3549	3549	3549	3549	3375	2400	2297	2296	2296	2296	2662	2934	3123
ELEV FTMSL	1350.0	1353.4	1355.0	1355.2	1355.2	1355.2	1355.2	1355.2	1353.1	1339.3	1337.5	1337.5	1337.5	1337.5	1343.5	1347.4	1350.0
DISCH KCFS	9.9	7.5	11.1	21.6	21.6	27.0	22.9	27.7	27.1	27.0	21.5	6.7	7.8	7.6	11.6	11.3	9.9
POWER																	
AVE POWER MW		62	94	183	183	227	193	234	227	211	157	49	57	56	87	89	80
PEAK POW MW		350	355	356	356	356	356	356	349	292	285	285	285	285	313	330	339
ENERGY GWH	1352.0	22.4	15.8	39.5	131.8	169.2	139.3	173.8	168.6	151.9	117.0	17.7	9.6	10.7	64.8	66.0	53.8
--GAVINS POINT--																	
NAT INFLOW	1342	98	46	59	133	148	154	87	86	62	112	51	24	27	75	73	108
DEPLETION	114	0	0	0	5	19	24	39	10	-5	2	5	2	3	10	1	
CHAN STOR	-1	5	-7	-20	0	-10	8	-9	1	0	10	27	-2	0	-7	1	3
EVAPORATION	47							3	9	11	10	5	2	2	5		
REG INFLOW	14937	326	194	425	1416	1777	1500	1740	1735	1662	1433	268	125	143	766	767	660
RELEASE	14937	326	194	425	1416	1777	1500	1740	1722	1636	1433	268	125	143	766	767	699
STOR CHANGE									13	26							-39
STORAGE	358	358	358	358	358	358	358	358	371	397	397	397	397	397	397	397	358
ELEV FTMSL	1206.0	1206.0	1206.0	1206.0	1206.0	1206.0	1206.0	1206.0	1206.5	1207.5	1207.5	1207.5	1207.5	1207.5	1207.5	1207.5	1206.0
DISCH KCFS	12.5	11.0	13.9	23.8	23.8	28.9	25.2	28.3	28.0	27.5	23.3	9.0	9.0	9.0	12.5	12.5	12.6
POWER																	
AVE POWER MW		38	49	82	82	98	86	96	96	95	82	32	32	32	44	44	44
PEAK POW MW		114	114	114	114	114	114	114	115	117	117	117	117	117	78	78	76
ENERGY GWH	625.0	13.9	8.2	17.6	58.7	73.1	62.1	71.6	71.3	68.7	60.9	11.6	5.4	6.2	32.9	33.0	29.8
--GAVINS POINT - SIOUX CITY--																	
NAT INFLOW	1160	149	69	89	116	224	161	97	72	45	31	16	7	9	17	-3	61
DEPLETION	254	6	3	4	21	35	30	37	35	23	10	6	3	3	12	13	14
REGULATED FLOW AT SIOUX CITY																	
KAF	15843	469	260	510	1511	1966	1631	1800	1759	1658	1454	278	130	148	771	751	746
KCFS		15.8	18.7	28.6	25.4	32.0	27.4	29.3	28.6	27.9	23.6	9.4	9.3	9.4	12.5	12.2	13.4
--TOTAL--																	
NAT INFLOW	21702	1271	593	762	1963	2909	5521	2946	1077	945	944	427	199	228	621	467	828
DEPLETION	2509	11	5	6	111	673	1531	1049	187	-207	-103	-135	-63	-72	-192	-186	-106
CHAN STOR	-8	80	3	-20	-43	-31	-16	-1	9	37	37	29	-8	-53	-23	-13	5
EVAPORATION	1698							106	331	410	351	158	74	85	184		
STORAGE	38099	38971	39303	39528	39826	40065	42409	42399	41208	40329	39608	39763	39813	39827	39663	39552	39744
SYSTEM POWER																	
AVE POWER MW		543	631	780	854	1039	948	1112	1036	742	777	407	448	520	742	731	668
PEAK POW MW		2074	2075	2077	2081	2080	2116	2112	2098	2067	2045	2048	2049	2051	2033	2050	2052
ENERGY GWH	7117.2	195.5	106.0	168.5	615.0	773.3	682.4	827.2	770.5	534.1	578.2	146.6	75.2	99.8	552.2	543.7	449.0
DAILY GWH		13.0	15.1	18.7	20.5	24.9	22.7	26.7	24.9	17.8	18.7	9.8	10.7	12.5	17.8	17.5	16.0

INI-SUM 15MAR 22MAR 31MAR 30APR 31MAY 30JUN 31JUL 31AUG 30SEP 31OCT 15NOV 22NOV 30NOV 31DEC 31JAN 28FEB

VALUES IN 1000 AF EXCEPT AS INDICATED

	29FEB09	2009											2010			
	INI-SUM	15MAR	22MAR	31MAR	30APR	31MAY	30JUN	31JUL	31AUG	30SEP	31OCT	15NOV	22NOV	30NOV	31DEC	31JAN	28FEB
--FORT PECK--																	
NAT INFLOW	6720	271	126	163	588	1036	1629	709	294	282	363	188	88	100	330	237	317
DEPLETION	431	-16	-7	-10	35	317	552	217	-44	-142	-74	-35	-16	-19	-113	-127	-87
EVAPORATION	447							27	85	107	94	42	20	23	49		
MOD INFLOW	5842	287	134	172	553	719	1077	465	253	317	343	180	84	96	394	364	404
RELEASE	5294	134	62	80	357	492	536	523	492	349	293	142	69	127	553	584	500
STOR CHANGE	548	153	71	92	196	227	541	-58	-239	-32	50	38	15	-31	-159	-220	-96
STORAGE	10007	10160	10231	10323	10519	10746	11287	11230	10990	10958	11008	11046	11061	11030	10870	10650	10554
ELEV FTMSL	2206.5	2207.5	2208.0	2208.5	2209.7	2211.1	2214.3	2214.0	2212.5	2212.4	2212.6	2212.9	2213.0	2212.8	2211.8	2210.5	2209.9
DISCH KCFS	9.0	4.5	4.5	4.5	6.0	8.0	9.0	8.5	8.0	5.9	4.8	4.8	5.0	8.0	9.0	9.5	9.0
POWER																	
AVE POWER MW		55	55	55	74	99	113	107	100	74	60	60	63	100	112	118	111
PEAK POW MW		136	137	137	139	140	144	144	142	142	142	142	142	142	141	140	139
ENERGY GWH	798.6	19.8	9.3	11.9	53.3	73.7	81.1	79.7	74.7	53.0	44.5	21.6	10.5	19.3	83.6	87.8	74.8
--GARRISON--																	
NAT INFLOW	10262	484	226	290	777	1306	2752	1927	542	455	437	179	83	95	243	180	286
DEPLETION	1015	-4	-2	-2	-2	226	791	602	75	-120	-37	-117	-55	-62	-119	-94	-65
CHAN STOR	0	49			-16	-22	-11	5	5	22	12	0	-2	-32	-11	-5	5
EVAPORATION	527							32	102	127	110	50	23	27	57		
REG INFLOW	14014	671	290	373	1120	1550	2486	1821	863	820	669	388	182	226	848	853	856
RELEASE	13346	446	194	250	1012	1168	1309	1322	1291	988	735	356	168	301	1230	1353	1222
STOR CHANGE	668	225	96	123	108	382	1177	499	-429	-168	-67	32	13	-75	-382	-500	-366
STORAGE	12033	12257	12353	12476	12584	12966	14143	14642	14213	14045	13978	14010	14024	13948	13566	13066	12700
ELEV FTMSL	1814.9	1815.8	1816.2	1816.7	1817.2	1818.7	1823.4	1825.3	1823.7	1823.0	1822.8	1822.9	1822.9	1822.7	1821.2	1819.2	1817.7
DISCH KCFS	21.0	15.0	14.0	14.0	17.0	19.0	22.0	21.5	21.0	16.6	12.0	12.0	12.1	19.0	20.0	22.0	22.0
POWER																	
AVE POWER MW		161	151	152	185	207	245	245	240	189	136	136	138	215	224	243	241
PEAK POW MW		389	390	392	394	400	417	424	417	415	414	415	415	414	408	401	395
ENERGY GWH	1799.9	58.0	25.4	32.8	132.9	154.3	176.4	182.3	178.2	135.7	101.0	48.8	23.1	41.2	166.9	181.1	161.6
--OAHE--																	
NAT INFLOW	1860	197	92	118	294	167	740	131	31	83	12				-45	-7	46
DEPLETION	652	23	11	14	48	69	138	165	109	27	-10	1	0	1	12	17	27
CHAN STOR	-5	30	5		-15	-10	-15	2	2	22	23	0	-1	-35	-5	-10	0
EVAPORATION	460							29	88	110	96	43	20	23	50		
REG INFLOW	14089	651	281	354	1243	1256	1896	1262	1127	956	685	312	147	243	1117	1319	1241
RELEASE	13404	404	246	347	1202	1608	1193	1703	1493	971	969	221	118	133	1102	977	715
STOR CHANGE	686	246	35	8	41	-352	703	-441	-366	-15	-284	90	28	110	15	342	526
STORAGE	12603	12849	12884	12891	12932	12580	13283	12842	12476	12461	12177	12268	12296	12406	12421	12763	13289
ELEV FTMSL	1584.1	1585.1	1585.3	1585.3	1585.5	1584.0	1587.0	1585.1	1583.5	1583.4	1582.2	1582.6	1582.7	1583.2	1583.2	1584.8	1587.0
DISCH KCFS	13.0	13.6	17.7	19.4	20.2	26.1	20.1	27.7	24.3	16.3	15.8	7.4	8.5	8.4	17.9	15.9	12.9
POWER																	
AVE POWER MW		155	202	222	231	297	229	317	275	185	177	84	96	95	202	180	148
PEAK POW MW		593	594	594	595	587	603	593	585	584	578	580	581	583	584	592	603
ENERGY GWH	1843.2	55.8	34.0	47.9	166.1	220.8	165.0	235.5	204.7	132.9	132.0	30.2	16.2	18.2	150.5	134.1	99.4
--BIG BEND--																	
EVAPORATION	129							8	24	31	27	12	6	7	14		
REG INFLOW	13275	404	246	347	1202	1608	1193	1695	1469	940	941	209	113	126	1088	977	715
RELEASE	13275	404	246	347	1202	1608	1193	1695	1469	940	941	209	113	126	1088	977	715
STORAGE	1621	1621	1621	1621	1621	1621	1621	1621	1621	1621	1621	1621	1621	1621	1621	1621	1621
ELEV FTMSL	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0
DISCH KCFS	13.0	13.6	17.7	19.4	20.2	26.1	20.1	27.6	23.9	15.8	15.3	7.0	8.1	8.0	17.7	15.9	12.9
POWER																	
AVE POWER MW		64	83	91	95	122	94	129	113	78	77	36	41	40	87	77	62
PEAK POW MW		517	510	509	509	509	509	509	518	538	538	538	538	538	538	538	529
ENERGY GWH	768.8	23.2	14.0	19.6	68.1	91.1	67.6	96.0	84.1	56.1	57.4	12.9	6.9	7.8	65.1	57.5	41.5
--FORT RANDALL--																	
NAT INFLOW	690	94	44	56	88	70	179	36	68	32	2				7	-7	21
DEPLETION	80	1	1	1	4	9	12	18	15	7	1	1	0	1	3	3	3
EVAPORATION	134							10	31	35	25	10	5	5	13		
REG INFLOW	13752	497	289	402	1286	1669	1360	1703	1491	930	917	199	107	121	1079	967	733
RELEASE	13751	223	154	385	1286	1669	1360	1703	1665	1605	1321	199	108	121	713	695	544
STOR CHANGE	0	274	135	17				0	-174	-675	-403	0	0	0	366	272	189
STORAGE	3123	3397	3532	3549	3549	3549	3549	3549	3375	2700	2297	2297	2297	2297	2663	2935	3124
ELEV FTMSL	1350.0	1353.4	1355.0	1355.2	1355.2	1355.2	1355.2	1355.2	1353.1	1344.1	1337.5	1337.5	1337.5	1337.5	1343.5	1347.4	1350.0
DISCH KCFS	9.9	7.5	11.1	21.6	21.6	27.1	22.9	27.7	27.1	27.0	21.5	6.7	7.7	7.6	11.6	11.3	9.8
POWER																	
AVE POWER MW		62	94	182	183	229	193	233	226	215	161	49	57	56	87	89	79
PEAK POW MW		350	355	356	356	356	356	356	349	315	285	285	285	285	313	330	339
ENERGY GWH	1357.3	22.4	15.8	39.4	131.6	170.3	139.1	173.7	168.5	155.0	119.4	17.7	9.5	10.7	64.8	66.0	53.2
--GAVINS POINT--																	
NAT INFLOW	1359	100	47	60	135	150	155	88	87	63	114	51	24	27	76	74	109
DEPLETION	114	0	0	0	5	19	24	39	10	-5	2	5	2	3	10	1	
CHAN STOR	-1	5	-7	-20	0	-11	8	-9	1	0	10	27	-2	0	-7	1	3
EVAPORATION	47							3	9	11	10	5	2	2	5		
REG INFLOW	14948	328	194	425	1416	1789	1500	1740	1735	1662	1433	268	125	143	767	768	656
RELEASE	14948	328	194	425	1416	1789	1500	1740	1722	1636	1433	268	125	143	767	768	695
STOR CHANGE									13	26							-39
STORAGE	358	358	358	358	358	358	358	358	371	397	397	397	397	397	397	397	358
ELEV FTMSL	1206.0	1206.0	1206.0	1206.0	1206.0	1206.0	1206.0	1206.0	1206.5	1207.5	1207.5	1207.5	1207.5	1207.5	1207.5	1207.5	1206.0
DISCH KCFS	12.6	11.0	14.0	23.8	23.8	29.1	25.2	28.3	28.0	27.5	23.3	9.0	9.0	9.0	12.5	12.5	12.5
POWER																	
AVE POWER MW		39	49	82	82	99	86	96	96	95	82	32	32	32	44	44	44
PEAK POW MW		114	114	114	114	114	114	114	115	117	117	117	117	117	78	78	76
ENERGY GWH	625.3	13.9	8.2	17.6	58.7	73.5	62.1	71.6	71.3	68.7	60.9	11.6	5.4	6.2	33.0	33.0	29.7
--GAVINS POINT - SIOUX CITY--																	
NAT INFLOW	1211	155	72	93	121	234	168	101	75	47	33	17	8	9	17	-3	64
DEPLETION	262	7	3	4	22	35	31	38	36	23	10	6	3	3	13	14	14
REGULATED FLOW AT SIOUX CITY																	
KAF	15897	476	263	514	1515	1988	1637	1803	1761	1660	1456	279	130	149	771	751	745
KCFS		16.0	18.9	28.8	25.5	32.3	27.5	29.3	28.6	27.9	23.7	9.4	9.4	9.4	12.5	12.2	13.4
--TOTAL--																	
NAT INFLOW	22102	1301	607	780	2003	2963	5623	2992	1097	962	961	434	203	231	628	474	843
DEPLETION	2554	11	5	7	112	675	1548	1079	201	-210	-108	-139	-65	-74	-194	-186	-108
CHAN STOR	-5	84	-2	-20	-31	-42	-18	-2	9	45	45	28	-5	-66	-23	-15	8
EVAPORATION	1744							108	339	421	362	162	76	87	189		
STORAGE	39744	40642	40979	41218	41563	41820	44241	44242	43046	42182	41478	41639	41695	41699	41538	41432	41646
SYSTEM POWER																	
AVE POWER MW		536	634	784	848	1053	960	1127	1050	835	693	396	427	538	758	752	685
PEAK POW MW		2100	2101	2104	2107	2107	2144	2140	2127	2111	2074	2077	2078	2079	2062	2079	2082
ENERGY GWH	7193.2	193.1	106.6	169.3	610.8	783.7	691.3	838.8	781.5	601.5	515.3	142.7	71.7	103.3	563.8	559.6	460.3
DAILY GWH		12.9	15.2	18.8	20.4	25.3	23.0	27.1	25.2	20.0	16.6	9.5	10.2	12.9	18.2	18.1	16.4

VALUES IN 1000 AF EXCEPT AS INDICATED

28FEB10		2010											2011		
INI-SUM	15MAR	22MAR	31MAR	30APR	31MAY	30JUN	31JUL	31AUG	30SEP	31OCT	15NOV	22NOV	30NOV	31DEC	31JAN	28FEB
--FORT PECK--																
NAT INFLOW 6751	272	127	163	591	1041	1636	712	295	284	365	188	88	100	332	238	318
DEPLETION 442	-16	-8	-10	35	318	557	224	-40	-142	-76	-36	-17	-19	-114	-127	-88
EVAPORATION 462							28	88	111	97	44	20	23	50		
MOD INFLOW 5847	289	135	173	556	723	1079	460	247	315	344	180	84	96	396	365	406
RELEASE 5313	134	62	80	357	492	536	523	492	368	309	155	72	127	553	553	500
STOR CHANGE 534	155	72	93	199	231	543	-63	-245	-52	36	25	11	-31	-158	-188	-94
STORAGE 10554	10709	10782	10875	11074	11305	11848	11786	11540	11488	11524	11548	11560	11529	11371	11182	11088
ELEV FTMSL 2209.9	2210.9	2211.3	2211.9	2213.0	2214.4	2217.5	2217.2	2215.8	2215.5	2215.7	2215.8	2215.9	2215.7	2214.8	2213.7	2213.1
DISCH KCFS 9.0	4.5	4.5	4.5	6.0	8.0	9.0	8.5	8.0	6.2	5.0	5.2	5.2	8.0	9.0	9.0	9.0
POWER																
AVE POWER MW	56	56	56	75	101	114	109	102	79	64	66	66	102	114	113	113
PEAK POW MW	140	141	141	143	144	148	147	146	145	146	146	146	146	145	143	143
ENERGY GWH 814.0	20.1	9.4	12.1	54.1	74.9	82.4	81.0	75.9	56.6	47.6	23.9	11.2	19.5	84.8	84.4	76.0
--GARRISON--																
NAT INFLOW 10290	485	226	291	779	1310	2760	1932	543	456	438	179	84	95	243	181	287
DEPLETION 1029	-4	-2	-2	-1	226	801	618	80	-123	-42	-121	-56	-64	-121	-95	-65
CHAN STOR 0	49			-16	-21	-11	5	5	19	12	-2		-29	-10		
EVAPORATION 542							33	104	130	113	51	24	27	59		
REG INFLOW 14032	672	291	374	1121	1555	2484	1809	856	836	687	401	188	230	848	829	852
RELEASE 13386	446	194	250	1012	1168	1339	1353	1322	952	729	358	167	286	1291	1353	1166
STOR CHANGE 646	225	96	124	109	386	1145	456	-466	-116	-41	43	21	-55	-443	-523	-314
STORAGE 12700	12926	13022	13146	13255	13642	14787	15243	14777	14660	14619	14662	14683	14628	14185	13661	13347
ELEV FTMSL 1817.7	1818.6	1819.0	1819.5	1819.9	1821.5	1825.9	1827.6	1825.8	1825.4	1825.2	1825.4	1825.5	1825.3	1823.6	1821.5	1820.3
DISCH KCFS 22.0	15.0	14.0	14.0	17.0	19.0	22.5	22.0	21.5	16.0	11.9	12.0	12.0	18.0	21.0	22.0	21.0
POWER																
AVE POWER MW	164	154	155	188	211	255	255	249	184	137	139	139	207	239	248	234
PEAK POW MW	399	400	402	404	409	426	432	425	424	423	424	424	423	417	410	405
ENERGY GWH 1836.4	59.2	25.9	33.4	135.5	157.3	183.6	189.4	185.1	132.8	101.7	50.0	23.3	39.7	178.1	184.2	157.1
--OAHE--																
NAT INFLOW 1877	199	93	119	297	168	747	132	31	84	12				-45	-7	47
DEPLETION 666	24	11	14	49	70	142	169	112	27	-10	1	0	1	12	17	27
CHAN STOR 5	34	5		-14	-10	-17	2	2	27	20	-1		-29	-15	-5	5
EVAPORATION 479							30	92	115	100	45	21	24	53		
REG INFLOW 14122	656	281	355	1245	1257	1927	1288	1151	921	671	311	146	232	1167	1324	1191
RELEASE 13447	403	258	372	1198	1613	1190	1703	1493	971	968	231	118	133	1102	977	715
STOR CHANGE 675	252	23	-17	47	-357	737	-414	-342	-50	-297	81	28	99	65	347	476
STORAGE 13289	13541	13564	13546	13593	13237	13973	13559	13216	13166	12869	12950	12977	13076	13141	13488	13963
ELEV FTMSL 1587.0	1588.1	1588.2	1588.1	1588.3	1586.8	1589.9	1588.2	1586.7	1586.5	1585.2	1585.6	1585.7	1586.1	1586.4	1587.9	1589.8
DISCH KCFS 12.9	13.6	18.6	20.8	20.1	26.2	20.0	27.7	24.3	16.3	15.7	7.8	8.5	8.4	17.9	15.9	12.9
POWER																
AVE POWER MW	157	216	242	234	303	232	322	280	188	181	89	97	96	206	184	150
PEAK POW MW	609	610	609	610	602	618	609	602	601	594	596	596	599	600	608	618
ENERGY GWH 1881.8	56.6	36.3	52.2	168.3	225.3	167.3	239.6	208.5	135.4	134.4	32.0	16.4	18.5	153.2	136.6	101.1
--BIG BEND--																
EVAPORATION 129							8	24	31	27	12	6	7	14		
REG INFLOW 13318	403	258	372	1198	1613	1190	1695	1469	940	941	219	112	127	1088	977	715
RELEASE 13318	403	258	372	1198	1613	1190	1695	1469	940	941	219	112	127	1088	977	715
STORAGE 1621	1621	1621	1621	1621	1621	1621	1621	1621	1621	1621	1621	1621	1621	1621	1621	1621
ELEV FTMSL 1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0
DISCH KCFS 12.9	13.6	18.6	20.8	20.1	26.2	20.0	27.6	23.9	15.8	15.3	7.3	8.1	8.0	17.7	15.9	12.9
POWER																
AVE POWER MW	64	87	98	94	123	94	129	113	78	77	37	41	40	87	77	62
PEAK POW MW	517	510	509	509	509	509	509	518	538	538	538	538	538	538	538	529
ENERGY GWH 771.3	23.1	14.7	21.1	67.9	91.4	67.4	96.0	84.1	56.1	57.4	13.4	6.9	7.8	65.1	57.5	41.5
--FORT RANDALL--																
NAT INFLOW 696	95	44	57	89	71	181	36	68	32	2				7	-7	21
DEPLETION 80	1	1	1	4	9	12	18	15	7	1	1	0	1	3	3	3
EVAPORATION 134							10	31	35	25	10	5	5	13		
REG INFLOW 13801	497	302	428	1283	1675	1359	1703	1491	930	917	208	107	121	1079	967	733
RELEASE 13801	223	167	411	1283	1675	1359	1703	1665	1605	1321	208	107	121	713	695	544
STOR CHANGE 0	274	135	17				0	-174	-675	-403	0	0	0	366	272	189
STORAGE 3124	3397	3532	3549	3549	3549	3549	3549	3375	2700	2296	2296	2296	2296	2662	2934	3123
ELEV FTMSL 1350.0	1353.4	1355.0	1355.2	1355.2	1355.2	1355.2	1355.2	1353.1	1344.1	1337.5	1337.5	1337.5	1337.5	1343.5	1347.4	1350.0
DISCH KCFS 9.8	7.5	12.0	23.0	21.6	27.2	22.8	27.7	27.1	27.0	21.5	7.0	7.7	7.6	11.6	11.3	9.8
POWER																
AVE POWER MW	62	102	195	182	230	193	233	226	215	161	51	56	56	87	89	79
PEAK POW MW	350	355	356	356	356	356	356	349	315	285	285	285	285	313	330	339
ENERGY GWH 1362.2	22.4	17.1	42.0	131.4	170.9	139.0	173.7	168.5	155.0	119.4	18.5	9.5	10.7	64.8	66.0	53.2
--GAVINS POINT--																
NAT INFLOW 1362	100	47	60	135	150	156	88	87	63	114	51	24	27	76	75	110
DEPLETION 114	0	0	0	5	19	24	39	10	-5	2	5	2	3	10	1	
CHAN STOR -1	4	-9	-21	3	-11	8	-9	1	0	10	27	-1	0	-7	1	3
EVAPORATION 47							3	9	11	10	5	2	2	5		
REG INFLOW 15001	328	205	450	1416	1795	1500	1740	1735	1662	1433	277	125	143	767	769	657
RELEASE 15001	328	205	450	1416	1795	1500	1740	1722	1636	1433	277	125	143	767	769	696
STOR CHANGE								13	26							-39
STORAGE 358	358	358	358	358	358	358	358	371	397	397	397	397	397	397	397	358
ELEV FTMSL 1206.0	1206.0	1206.0	1206.0	1206.0	1206.0	1206.0	1206.0	1206.5	1207.5	1207.5	1207.5	1207.5	1207.5	1207.5	1207.5	1206.0
DISCH KCFS 12.5	11.0	14.8	25.2	23.8	29.2	25.2	28.3	28.0	27.5	23.3	9.3	9.0	9.0	12.5	12.5	12.5
POWER																
AVE POWER MW	39	51	86	82	99	86	96	96	95	82	33	32	32	44	44	44
PEAK POW MW	114	114	114	114	114	114	114	115	117	117	117	117	117	78	78	76
ENERGY GWH 627.4	13.9	8.6	18.6	58.7	73.6	62.1	71.6	71.3	68.7	60.9	11.9	5.4	6.2	33.0	33.1	29.7
--GAVINS POINT - SIOUX CITY--																
NAT INFLOW 1223	157	73	94	122	236	170	102	75	47	33	17	8	9	18	-3	65
DEPLETION 263	7	3	4	22	35	31	38	36	24	10	6	3	3	13	14	14
REGULATED FLOW AT SIOUX CITY																
KAF 15961	478	275	540	1516	1996	1639	1804	1761	1659	1456	288	130	149	772	752	747
KCFS	16.1	19.8	30.3	25.5	32.5	27.5	29.3	28.6	27.9	23.7	9.7	9.4	9.4	12.5	12.2	13.5
--TOTAL--																
NAT INFLOW 22199	1308	610	785	2013	2976	5650	3002	1099	966	964	435	203	232	631	477	848
DEPLETION 2594	11	5	7	114	677	1567	1106	213	-212	-115	-143	-67	-76	-197	-187	-109
CHAN STOR 5	87	-4	-21	-28	-42	-19	-2	9	46	43	25	-1	-58	-33	-4	8
EVAPORATION 1793							111	349	433	372	167	78	89	194		
STORAGE 41646	42552	42879	43095	43450	43711	46136	46115	44900	44032	43326	43474	43535	43547	43376	43284	43501
SYSTEM POWER																
AVE POWER MW	543	666	831	855	1066	975	1144	1066	840	701	416	432	533	778	755	683
PEAK POW MW	2130	2131	2132	2136	2135	2171	2168	2155	2140	2102	2105	2106	2107	2091	2107	2110
ENERGY GWH 7293.1	195.3	112.0	179.6	615.9	793.4	701.8	851.3	793.4	604.7	521.5	149.8	72.6	102.4	579.0	561.8	458.6
DAILY GWH	13.0	16.0	20.0	20.5	25.6	23.4	27.5	25.6	20.2	16.8	10.0	10.4	12.8	18.7	18.1	16.4

VALUES IN 1000 AF EXCEPT AS INDICATED

	28FEB11	2011											2012			
	INI-SUM	15MAR	22MAR	31MAR	30APR	31MAY	30JUN	31JUL	31AUG	30SEP	31OCT	15NOV	22NOV	30NOV	31DEC	31JAN	29FEB
--FORT PECK--																	
NAT INFLOW	7022	283	132	170	615	1083	1702	741	307	295	379	196	91	104	345	248	331
DEPLETION	455	-16	-8	-10	34	319	561	232	-35	-142	-76	-35	-16	-19	-112	-125	-97
EVAPORATION	475							29	91	114	100	45	21	24	52		
MOD INFLOW	6092	300	140	180	581	764	1141	480	251	323	355	185	87	99	405	373	428
RELEASE	5500	134	62	80	357	492	565	553	492	390	327	158	77	127	553	584	546
STOR CHANGE	592	166	77	99	224	272	576	-73	-241	-67	28	27	9	-28	-148	-211	-118
STORAGE	11088	11254	11331	11431	11655	11927	12503	12429	12189	12122	12150	12177	12187	12158	12010	11799	11680
ELEV FTMSL	2213.1	2214.1	2214.6	2215.1	2216.4	2218.0	2221.2	2220.8	2219.4	2219.1	2219.2	2219.4	2219.4	2219.3	2218.4	2217.2	2216.6
DISCH KCFS	9.0	4.5	4.5	4.5	6.0	8.0	9.5	9.0	8.0	6.6	5.3	5.3	5.6	8.0	9.0	9.5	9.5
POWER																	
AVE POWER MW		57	57	57	76	102	123	117	104	85	69	69	72	103	116	122	121
PEAK POW MW		144	144	145	146	148	152	151	150	149	150	150	150	150	149	147	147
ENERGY GWH	856.7	20.4	9.6	12.3	55.0	76.2	88.4	87.1	77.2	61.0	51.3	24.8	12.1	19.9	86.3	90.6	84.4
--GARRISON--																	
NAT INFLOW	10598	500	233	300	803	1349	2842	1990	559	470	451	185	86	98	251	186	295
DEPLETION	1216	-3	-2	-2	-1	226	811	634	74	-149	-13	-102	-48	-54	-76	-50	-29
CHAN STOR	-5	48			-16	-21	-16	5	10	15	13	0	-3	-25	-10	-5	
EVAPORATION	567							34	109	137	119	54	25	28	61		
REG INFLOW	14310	685	297	382	1145	1594	2581	1880	878	887	685	391	184	226	809	815	870
RELEASE	13586	446	194	250	1012	1138	1309	1322	1291	952	899	435	204	286	1230	1353	1265
STOR CHANGE	724	239	103	132	134	456	1271	558	-413	-65	-214	-44	-21	-59	-421	-538	-395
STORAGE	13347	13586	13689	13821	13955	14411	15682	16240	15827	15762	15548	15504	15484	15424	15003	14466	14071
ELEV FTMSL	1820.3	1821.2	1821.6	1822.2	1822.7	1824.4	1829.2	1831.1	1829.7	1829.4	1828.7	1828.5	1828.4	1828.2	1826.7	1824.6	1823.1
DISCH KCFS	21.0	15.0	14.0	14.0	17.0	18.5	22.0	21.5	21.0	16.0	14.6	14.6	14.7	18.0	20.0	22.0	22.0
POWER																	
AVE POWER MW		167	157	158	192	210	255	255	249	189	173	172	173	211	233	253	250
PEAK POW MW		409	410	412	414	420	438	445	439	439	436	435	435	434	428	421	415
ENERGY GWH	1904.6	60.3	26.4	34.0	138.0	156.3	183.4	189.4	185.4	136.3	128.4	61.9	29.1	40.5	173.2	188.1	173.9
--OAHE--																	
NAT INFLOW	2048	217	101	130	324	183	815	144	34	92	13				-49	-8	51
DEPLETION	681	24	11	14	49	71	145	173	116	28	-10	1	0	1	12	18	28
CHAN STOR	-5	28	5		-14	-7	-17	2	2	24	7		-1	-16	-10	-10	
EVAPORATION	500							31	96	120	104	47	22	25	55		
REG INFLOW	14448	668	289	366	1273	1243	1963	1264	1115	919	824	387	182	244	1105	1317	1288
RELEASE	13719	524	134	347	1183	1607	1164	1695	1483	965	1206	358	107	134	1101	978	733
STOR CHANGE	729	144	156	19	89	-364	799	-431	-368	-46	-381	29	74	111	3	339	556
STORAGE	13963	14108	14263	14282	14372	14008	14806	14376	14007	13962	13580	13609	13683	13794	13797	14137	14692
ELEV FTMSL	1589.8	1590.4	1591.0	1591.1	1591.5	1590.0	1593.2	1591.5	1590.0	1589.8	1588.3	1588.4	1588.7	1589.1	1589.2	1590.5	1592.8
DISCH KCFS	12.9	17.6	9.6	19.4	19.9	26.1	19.6	27.6	24.1	16.2	19.6	12.0	7.7	8.4	17.9	15.9	12.7
POWER																	
AVE POWER MW		207	114	229	235	307	232	327	284	190	229	140	90	99	209	187	151
PEAK POW MW		621	624	624	626	619	635	626	619	618	610	610	612	614	615	621	632
ENERGY GWH	1953.5	74.5	19.1	49.5	169.2	228.5	166.7	243.1	211.1	137.1	170.2	50.5	15.2	18.9	155.7	138.9	105.2
--BIG BEND--																	
EVAPORATION	129							8	24	31	27	12	6	7	14		
REG INFLOW	13590	524	134	347	1183	1607	1164	1687	1459	934	1179	346	102	127	1087	978	733
RELEASE	13590	524	134	347	1183	1607	1164	1687	1459	934	1179	346	102	127	1087	978	733
STORAGE	1621	1621	1621	1621	1621	1621	1621	1621	1621	1621	1621	1621	1621	1621	1621	1621	1621
ELEV FTMSL	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0
DISCH KCFS	12.9	17.6	9.6	19.4	19.9	26.1	19.6	27.4	23.7	15.7	19.2	11.6	7.3	8.0	17.7	15.9	12.7
POWER																	
AVE POWER MW		83	45	91	93	122	92	128	112	77	96	59	37	41	87	77	61
PEAK POW MW		510	509	509	509	509	509	509	518	538	538	538	538	538	538	538	529
ENERGY GWH	787.8	29.8	7.6	19.6	67.0	91.0	65.9	95.5	83.5	55.8	71.7	21.2	6.2	7.8	65.0	57.6	42.6
--FORT RANDALL--																	
NAT INFLOW	779	106	49	64	100	79	203	41	76	36	2				8	-8	23
DEPLETION	80	1	1	1	4	9	12	18	15	7	1	1	0	1	3	3	3
EVAPORATION	134							10	31	35	25	10	5	5	13		
REG INFLOW	14157	629	183	409	1279	1677	1355	1700	1489	928	1155	336	97	121	1079	967	753
RELEASE	14157	220	166	409	1279	1677	1355	1700	1663	1603	1559	336	97	121	713	695	564
STOR CHANGE	0	409	17					0	-174	-675	-403	0	0	0	366	272	189
STORAGE	3123	3532	3549	3549	3549	3549	3549	3549	3375	2700	2297	2297	2296	2296	2662	2934	3123
ELEV FTMSL	1350.0	1355.0	1355.2	1355.2	1355.2	1355.2	1355.2	1355.2	1353.1	1344.1	1337.5	1337.5	1337.5	1337.5	1343.5	1347.4	1350.0
DISCH KCFS	9.8	7.4	11.9	22.9	21.5	27.3	22.8	27.6	27.0	26.9	25.3	11.3	7.0	7.6	11.6	11.3	9.8
POWER																	
AVE POWER MW		62	101	194	182	230	192	233	226	215	189	82	51	56	87	89	79
PEAK POW MW		355	356	356	356	356	356	356	349	315	285	285	285	285	313	330	339
ENERGY GWH	1394.0	22.3	17.0	41.9	131.0	171.1	138.6	173.4	168.3	154.8	140.6	29.7	8.6	10.8	64.8	66.0	55.1
--GAVINS POINT--																	
NAT INFLOW	1401	103	48	62	139	155	160	91	89	65	117	53	25	28	78	77	113
DEPLETION	114	0	0	0	5	19	24	39	10	-5	2	5	2	3	10	1	
CHAN STOR	-1	5	-9	-21	3	-11	9	-9	1	0	3	26	8	-1	-7	1	3
EVAPORATION	47							3	9	11	10	5	2	2	5		
REG INFLOW	15396	328	205	450	1416	1802	1500	1740	1735	1662	1666	405	125	143	769	771	679
RELEASE	15396	328	205	450	1416	1802	1500	1740	1722	1636	1666	405	125	143	769	771	718
STOR CHANGE									13	26							-39
STORAGE	358	358	358	358	358	358	358	358	371	397	397	397	397	397	397	397	358
ELEV FTMSL	1206.0	1206.0	1206.0	1206.0	1206.0	1206.0	1206.0	1206.0	1206.5	1207.5	1207.5	1207.5	1207.5	1207.5	1207.5	1207.5	1206.0
DISCH KCFS	12.5	11.0	14.8	25.2	23.8	29.3	25.2	28.3	28.0	27.5	27.1	13.6	9.0	9.0	12.5	12.5	12.5
POWER																	
AVE POWER MW		39	51	86	82	99	86	96	96	95	95	48	32	32	44	45	44
PEAK POW MW		114	114	114	114	114	114	114	115	117	117	117	117	117	78	78	76
ENERGY GWH	643.8	13.9	8.6	18.6	58.7	73.8	62.1	71.6	71.3	68.7	70.6	17.4	5.4	6.2	33.0	33.2	30.7
--GAVINS POINT - SIOUX CITY--																	
NAT INFLOW	1356	174	81	104	135	262	188	113	84	52	37	19	9	10	20	-4	72
DEPLETION	266	7	3	4	22	36	31	39	36	24	11	6	3	3	13	14	14
REGULATED FLOW AT SIOUX CITY																	
KAF	16486	495	283	550	1529	2028	1657	1814	1770	1664	1692	418	131	150	776	753	776
KCFS		16.6	20.4	30.8	25.7	33.0	27.8	29.5	28.8	28.0	27.5	14.0	9.4	9.4	12.6	12.3	13.5
--TOTAL--																	
NAT INFLOW	23204	1383	645	829	2116	3111	5910	3120	1149	1010	999	452	211	241	653	491	885
DEPLETION	2812	12	5	7	113	680	1584	1135	216	-237	-85	-124	-58	-66	-150	-139	-81
CHAN STOR	-9	81	-4	-21	-27	-39	-24	-2	14	39	23	27	5	-42	-27	-14	3
EVAPORATION	1853							115	360	448	385	172	80	92	200		
STORAGE	43501	44459	44811	45062	45509	45873	48519	48573	47390	46563	45593	45605	45668	45691	45491	45354	45546
SYSTEM POWER																	
AVE POWER MW		614	526	815	860	1071	979	1156	1071	853	850	571	456	542	777	772	707
PEAK POW MW		2153	2158	2161	2166	2167	2203	2202	2191	2176	2135	2135	2137	2138	2121	2136	2138
ENERGY GWH	7540.3	221.2	88.4	176.1	618.9	796.8	705.1	860.2	796.7	613.8	632.7	205.5	76.6	104.0	578.0	574.3	491.9
DAILY GWH		14.7	12.6	19.6	20.6	25.7	23.5	27.7	25.7	20.5	20.4	13.7	10.9	13.0	18.6	18.5	17.0

INI-SUM 15MAR 22MAR 31MAR 30APR 31MAY 30JUN 31JUL 31AUG 30SEP 31OCT 15NOV 22NOV 30NOV 31DEC 31JAN 29FEB

TIME OF STUDY 10:29:11 SHORTEN NAVIGATION SEASON 61-DAYS STUDY NO 22

VALUES IN 1000 AF EXCEPT AS INDICATED

28FEB07		2007										2008			
	INI-SUM	15MAR	22MAR	31MAR	30APR	31MAY	30JUN	31JUL	31AUG	30SEP	31OCT	15NOV	22NOV	30NOV	31DEC	31JAN	29FEB
--FORT PECK--																	
NAT INFLOW	5435	250	116	150	549	834	1061	468	270	258	341	169	79	90	289	218	293
DEPLETION	425	2	1	1	51	208	362	195	-14	-106	-57	-11	-5	-6	-62	-79	-56
EVAPORATION	376							23	72	90	79	36	17	19	41		
MOD INFLOW	4634	247	115	148	498	626	699	250	212	274	319	144	67	77	310	297	349
RELEASE	4995	149	69	89	387	492	506	492	492	322	259	125	59	79	492	523	460
STOR CHANGE	-361	99	46	59	111	134	193	-242	-280	-48	60	19	9	-2	-182	-226	-111
STORAGE	7998	8097	8142	8202	8313	8447	8640	8398	8118	8070	8131	8149	8158	8156	7974	7748	7637
ELEV FTMSL	2193.1	2193.8	2194.1	2194.6	2195.3	2196.3	2197.6	2195.9	2194.0	2193.6	2194.1	2194.2	2194.2	2194.2	2192.9	2191.3	2190.5
DISCH KCFS	8.0	5.0	5.0	5.0	6.5	8.0	8.5	8.0	8.0	5.4	4.2	4.2	4.2	5.0	8.0	8.5	8.0
POWER																	
AVE POWER MW		56	57	57	74	92	98	92	91	61	48	48	48	57	90	95	88
PEAK POW MW		119	120	120	121	123	125	122	119	119	120	120	120	120	118	116	114
ENERGY GWH	685.2	20.3	9.5	12.3	53.3	68.1	70.6	68.6	67.7	44.1	35.6	17.2	8.0	10.9	67.0	70.4	61.5
--GARRISON--																	
NAT INFLOW	8026	297	138	178	770	993	2221	1404	397	305	429	177	83	94	119	176	245
DEPLETION	1097	34	16	20	35	93	709	555	113	-97	28	-100	-46	-53	-92	-69	-49
CHAN STOR	0	34			-17	-17	-6	6		29	13	0		-9	-34	-6	6
EVAPORATION	440							27	85	106	92	41	19	22	47		
REG INFLOW	11484	446	192	247	1105	1375	2012	1319	690	647	582	360	168	196	622	762	760
RELEASE	11937	417	180	232	893	1076	1160	1168	1107	773	737	357	166	270	1138	1199	1064
STOR CHANGE	-454	29	12	15	212	299	852	151	-416	-126	-156	4	2	-74	-515	-437	-304
STORAGE	9591	9620	9632	9646	9858	10157	11009	11160	10744	10617	10462	10466	10467	10393	9878	9441	9137
ELEV FTMSL	1803.7	1803.8	1803.9	1803.9	1805.0	1806.4	1810.4	1811.1	1809.2	1808.6	1807.9	1807.9	1807.9	1807.6	1805.1	1802.9	1801.4
DISCH KCFS	18.5	14.0	13.0	13.0	15.0	17.5	19.5	19.0	18.0	13.0	12.0	12.0	12.0	17.0	18.5	19.5	18.5
POWER																	
AVE POWER MW		137	128	128	148	174	198	197	186	133	122	122	122	172	185	191	179
PEAK POW MW		345	345	345	349	355	369	371	365	362	360	360	360	359	350	342	336
ENERGY GWH	1450.2	49.5	21.5	27.6	106.6	129.6	142.6	146.4	138.1	95.9	91.0	43.9	20.5	33.0	137.6	142.1	124.2
--OAHE--																	
NAT INFLOW	1184	223	104	134	206	113	242	92	24	72	6	-6	-3	-3	-54	-13	47
DEPLETION	625	23	11	14	47	67	132	156	103	25	-9	2	1	1	11	17	26
CHAN STOR	1	25	5		-11	-14	-11	3	6	29	6	0	0	-29	-9	-6	6
EVAPORATION	352							22	66	83	74	34	16	18	39		
REG INFLOW	12145	641	279	352	1041	1108	1259	1085	967	767	684	316	147	219	1024	1163	1091
RELEASE	12579	431	277	369	1250	1411	1248	1732	1351	593	550	259	120	137	1022	801	1027
STOR CHANGE	-434	210	3	-17	-209	-303	11	-647	-384	174	134	57	27	82	2	362	64
STORAGE	10102	10312	10315	10298	10088	9786	9797	9150	8766	8940	9074	9131	9158	9240	9242	9604	9668
ELEV FTMSL	1572.0	1573.1	1573.1	1573.0	1571.9	1570.2	1570.3	1566.7	1564.4	1565.5	1566.2	1566.6	1566.7	1567.2	1567.2	1569.2	1569.6
DISCH KCFS	16.6	14.5	19.9	20.7	21.0	22.9	21.0	28.2	22.0	10.0	8.9	8.7	8.7	8.7	16.6	13.0	17.9
POWER																	
AVE POWER MW		153	211	219	221	240	218	289	221	100	91	89	88	89	170	134	185
PEAK POW MW		530	530	530	524	515	516	497	486	491	495	497	497	500	500	510	512
ENERGY GWH	1569.7	55.2	35.4	47.3	159.4	178.2	157.0	214.7	164.4	72.3	67.5	31.9	14.8	17.0	126.2	99.7	128.6
--BIG BEND--																	
EVAPORATION	129							8	24	31	27	12	6	7	14		
REG INFLOW	12450	431	277	369	1250	1411	1248	1725	1326	562	523	247	114	131	1008	801	1027
RELEASE	12450	431	277	369	1250	1411	1248	1725	1326	562	523	247	114	131	1008	801	1027
STORAGE	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622
ELEV FTMSL	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0
DISCH KCFS	16.6	14.5	19.9	20.7	21.0	22.9	21.0	28.0	21.6	9.4	8.5	8.3	8.2	8.3	16.4	13.0	17.9
POWER																	
AVE POWER MW		69	93	97	98	107	98	131	103	48	43	42	42	42	82	65	86
PEAK POW MW		518	511	509	509	509	509	509	525	538	538	538	538	538	538	538	529
ENERGY GWH	722.1	24.7	15.7	20.9	70.8	79.9	70.7	97.7	76.5	34.5	32.1	15.1	7.0	8.0	60.8	48.0	59.6
--FORT RANDALL--																	
NAT INFLOW	366	67	31	40	52	42	146	16	44	-12	-62	-3	-1	-2		-7	15
DEPLETION	80	1	1	1	4	9	12	18	15	7	1	1	0	1	3	3	3
EVAPORATION	127							10	30	31	22	10	5	5	13		
REG INFLOW	12604	497	307	408	1298	1444	1382	1713	1325	506	438	233	108	123	992	791	1039
RELEASE	12603	235	159	391	1298	1444	1382	1713	1674	1410	438	233	108	123	719	701	575
STOR CHANGE	1	262	148	17				0	-349	-903	0	0	0	0	273	90	464
STORAGE	3122	3384	3532	3549	3549	3549	3549	3549	3200	2296	2296	2296	2296	2296	2569	2659	3123
ELEV FTMSL	1350.0	1353.2	1355.0	1355.2	1355.2	1355.2	1355.2	1355.2	1351.0	1337.5	1337.5	1337.5	1337.5	1337.5	1342.1	1343.5	1350.0
DISCH KCFS	10.0	7.9	11.5	21.9	21.8	23.5	23.2	27.9	27.2	23.7	7.1	7.8	7.8	7.8	11.7	11.4	10.0
POWER																	
AVE POWER MW		66	97	185	184	198	196	235	226	182	52	57	57	57	87	87	79
PEAK POW MW		350	355	356	356	356	356	356	342	284	285	285	285	285	306	312	339
ENERGY GWH	1240.8	23.6	16.3	40.0	132.8	147.6	141.3	174.7	167.8	131.3	38.9	20.6	9.6	10.9	64.9	65.0	55.3
--GAVINS POINT--																	
NAT INFLOW	1229	89	42	53	123	134	141	78	78	56	107	46	21	25	69	67	100
DEPLETION	114	0	0	0	5	19	24	39	10	-5	2	5	2	3	10	1	
CHAN STOR	-1	4	-7	-20	0	-3	0	-9	1	7	31	-1	0	0	-7	1	3
EVAPORATION	47							3	9	11	10	5	2	2	5		
REG INFLOW	13670	329	194	425	1416	1556	1500	1740	1735	1466	564	268	125	143	766	768	678
RELEASE	13670	329	194	425	1416	1556	1500	1740	1722	1440	564	268	125	143	766	768	717
STOR CHANGE									13	26							-39
STORAGE	358	358	358	358	358	358	358	358	371	397	397	397	397	397	397	397	358
ELEV FTMSL	1206.0	1206.0	1206.0	1206.0	1206.0	1206.0	1206.0	1206.0	1206.5	1207.5	1207.5	1207.5	1207.5	1207.5	1207.5	1207.5	1206.0
DISCH KCFS	12.5	11.0	14.0	23.8	23.8	25.3	25.2	28.3	28.0	24.2	9.2	9.0	9.0	9.0	12.5	12.5	12.5
POWER																	
AVE POWER MW		39	49	82	82	87	86	96	96	84	33	32	32	32	44	44	44
PEAK POW MW		114	114	114	114	114	114	114	115	117	117	117	117	117	78	78	76
ENERGY GWH	572.6	13.9	8.2	17.6	58.7	64.4	62.1	71.6	71.3	60.8	24.3	11.6	5.4	6.2	32.9	33.0	30.6
--GAVINS POINT - SIOUX CITY--																	
NAT INFLOW	664	44	21	26	93	173	128	57	26	18	17	12	5	6	12	-6	32
DEPLETION	254	6	3	4	21	35	30	37	35	23	10	6	3	3	12	13	14
REGULATED FLOW AT SIOUX CITY																	
KAF	14080	366	212	448	1488	1694	1598	1760	1713	1435	571	274	128	146	766	749	735
KCFS		12.3	15.2	25.1	25.0	27.5	26.8	28.6	27.9	24.1	9.3	9.2	9.2	9.2	12.5	12.2	12.8
--TOTAL--																	
NAT INFLOW	16904	969	452	581	1793	2289	3939	2115	839	697	838	395	184	211	435	435	732
DEPLETION	2595	66	31	40	163	431	1269	1000	262	-153	-25	-98	-46	-52	-118	-114	-62
CHAN STOR	-6	63	-1	-20	-28	-34	-16	-1	7	59	50	-1	0	-38	-50	-11	14
EVAPORATION	1471							93	287	352	304	138	64	74	159		
STORAGE	32793	33393	33601	33674	33788	33919	34975	34236	32821	31942	31981	32061	32099	32104	31682	31472	31545
SYSTEM POWER																	
AVE POWER MW		520	634	767	808	898	895	1040	922	610	389	390	389	448	658	616	661
PEAK POW MW		1976	1976	1975	1974	1973	1989	1971	1952	1912	1914	1916	1917	1918	1890	1896	1907
ENERGY GWH	6240.7	187.3	106.6	165.8	581.7	667.8	644.3	773.6	685.8	438.9	289.4	140.4	65.4	86.1	489.4	458.3	459.9
DAILY GWH		12.5	15.2	18.4	19.4	21.5	21.5	25.0	22.1	14.6	9.3	9.4	9.3	10.8	15.8	14.8	15.9

	INI-SUM	15MAR	22MAR	31MAR	30APR	31MAY	30JUN	31JUL	31AUG	30SEP	31OCT	15NOV	22NOV	30NOV	31DEC	31JAN	29FEB

TIME OF STUDY 10:29:11 SHORTEN NAVIGATION SEASON 61-DAYS STUDY NO 23

VALUES IN 1000 AF EXCEPT AS INDICATED

28FEB08		2008									2009				
INI-SUM	15MAR	22MAR	31MAR	30APR	31MAY	30JUN	31JUL	31AUG	30SEP	31OCT	15NOV	22NOV	30NOV	31DEC	31JAN	28FEB
--FORT PECK--																
NAT INFLOW	5615	258	120	155	567	862	1097	483	279	266	352	175	81	93	298	226	303
DEPLETION	504	1	1	1	82	336	529	178	-34	-129	-63	-35	-16	-18	-110	-127	-92
EVAPORATION	361							22	69	86	75	34	16	18	40		
MOD INFLOW	4750	257	120	154	485	526	568	283	244	309	340	175	81	93	368	353	395
RELEASE	4871	149	69	89	387	461	476	492	492	344	255	123	58	79	461	492	444
STOR CHANGE	-121	108	50	65	98	65	92	-209	-248	-35	85	52	24	14	-93	-139	-49
STORAGE	7637	7745	7795	7860	7958	8023	8115	7906	7658	7623	7708	7759	7783	7797	7704	7565	7516
ELEV FTMSL	2190.5	2191.3	2191.6	2192.1	2192.8	2193.3	2193.9	2192.4	2190.6	2190.4	2191.0	2191.4	2191.5	2191.6	2191.0	2189.9	2189.6
DISCH KCFS	8.0	5.0	5.0	5.0	6.5	7.5	8.0	8.0	8.0	5.8	4.1	4.1	4.1	5.0	7.5	8.0	8.0
POWER																	
AVE POWER MW		55	56	56	73	84	90	90	89	64	46	46	46	56	83	88	88
PEAK POW MW		115	116	117	118	118	119	117	115	114	115	116	116	116	115	114	113
ENERGY GWH	655.6	20.0	9.4	12.1	52.4	62.6	64.9	66.8	66.0	46.0	34.2	16.6	7.8	10.7	61.9	65.5	58.9
--GARRISON--																	
NAT INFLOW	8444	312	146	187	810	1045	2337	1477	418	320	451	187	87	99	125	185	258
DEPLETION	951	5	2	3	14	202	744	540	78	-138	-17	-112	-52	-60	-112	-87	-60
CHAN STOR	0	35			-17	-11	-6			25	18			-10	-28	-6	
EVAPORATION	429							26	82	103	90	41	19	22	46		
REG INFLOW	11936	490	213	273	1166	1293	2063	1403	750	724	651	381	178	207	624	758	762
RELEASE	12105	417	167	214	1101	1383	1190	1076	1045	671	706	342	159	270	1138	1199	1027
STOR CHANGE	-170	74	46	59	65	-91	873	327	-296	53	-55	39	18	-63	-514	-441	-265
STORAGE	9137	9211	9257	9316	9380	9290	10163	10490	10194	10247	10192	10231	10250	10187	9673	9233	8967
ELEV FTMSL	1801.4	1801.7	1802.0	1802.3	1802.6	1802.1	1806.5	1808.0	1806.6	1806.9	1806.6	1806.8	1806.9	1806.6	1804.1	1801.8	1800.5
DISCH KCFS	18.5	14.0	12.0	12.0	18.5	22.5	20.0	17.5	17.0	11.3	11.5	11.5	11.5	17.0	18.5	19.5	18.5
POWER																	
AVE POWER MW		135	116	116	179	217	196	176	172	114	116	116	116	171	183	189	177
PEAK POW MW		337	338	339	341	339	355	360	355	356	355	356	355	346	338	333	
ENERGY GWH	1441.9	48.6	19.5	25.1	128.9	161.4	141.3	131.2	127.6	81.9	86.2	41.7	19.5	32.8	136.4	140.9	119.0
--OAHE--																	
NAT INFLOW	1263	238	111	143	220	120	259	99	25	77	6	-6	-3	-3	-58	-14	50
DEPLETION	641	23	11	14	48	68	135	160	106	26	-9	2	1	1	12	17	27
CHAN STOR	0	25	11		-36	-22	14	14	3	34	-1			-32	-9	-6	6
EVAPORATION	349							22	66	82	73	33	16	18	39		
REG INFLOW	12379	656	278	343	1237	1413	1328	1007	901	674	647	301	140	216	1020	1162	1056
RELEASE	12511	428	278	362	1243	1404	1231	1729	1521	568	404	259	120	137	1022	802	1001
STOR CHANGE	-132	229	0	-20	-7	9	97	-723	-621	106	243	42	20	78	-2	360	55
STORAGE	9668	9897	9896	9877	9870	9880	9977	9254	8633	8740	8983	9024	9044	9123	9120	9481	9536
ELEV FTMSL	1569.6	1570.9	1570.9	1570.8	1570.7	1570.8	1571.3	1567.3	1563.6	1564.3	1565.7	1566.0	1566.1	1566.5	1566.5	1568.6	1568.9
DISCH KCFS	17.9	14.4	20.0	20.3	20.9	22.8	20.7	28.1	24.7	9.5	6.6	8.7	8.7	8.7	16.6	13.0	18.0
POWER																	
AVE POWER MW		150	209	212	218	238	216	290	248	95	66	88	88	88	169	134	186
PEAK POW MW		519	519	518	518	518	521	500	482	485	492	494	494	496	496	507	508
ENERGY GWH	1555.8	53.9	35.1	45.8	156.8	176.9	155.6	215.4	184.9	68.7	49.4	31.8	14.8	16.9	125.6	99.4	124.7
--BIG BEND--																	
EVAPORATION	129							8	24	31	27	12	6	7	14		
REG INFLOW	12382	428	278	362	1243	1404	1231	1722	1497	537	377	247	114	131	1008	802	1001
RELEASE	12382	428	278	362	1243	1404	1231	1722	1497	537	377	247	114	131	1008	802	1001
STORAGE	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622
ELEV FTMSL	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0
DISCH KCFS	17.9	14.4	20.0	20.3	20.9	22.8	20.7	28.0	24.3	9.0	6.1	8.3	8.2	8.3	16.4	13.0	18.0
POWER																	
AVE POWER MW		68	94	95	98	107	97	131	115	46	31	42	42	42	82	65	86
PEAK POW MW		518	511	509	509	509	509	509	518	538	538	538	538	538	538	538	529
ENERGY GWH	717.0	24.5	15.8	20.5	70.4	79.5	69.8	97.5	85.7	32.9	23.2	15.2	7.0	8.0	60.8	48.1	58.1
--FORT RANDALL--																	
NAT INFLOW	404	74	35	44	58	47	161	18	48	-13	-69	-4	-2	-2		-8	16
DEPLETION	80	1	1	1	4	9	12	18	15	7	1	1	0	1	3	3	3
EVAPORATION	131							10	31	33	23	10	5	5	13		
REG INFLOW	12575	500	312	406	1297	1442	1380	1712	1499	483	284	232	108	123	992	791	1014
RELEASE	12574	232	171	389	1297	1442	1380	1712	1673	1409	437	232	108	123	719	701	550
STOR CHANGE	1	268	141	17				0	-174	-925	-153	0	0	0	273	90	464
STORAGE	3123	3391	3532	3549	3549	3549	3549	3549	3375	2450	2297	2297	2297	2297	2570	2660	3124
ELEV FTMSL	1350.0	1353.3	1355.0	1355.2	1355.2	1355.2	1355.2	1355.2	1353.1	1340.2	1337.5	1337.5	1337.5	1337.5	1342.1	1343.5	1350.0
DISCH KCFS	10.0	7.8	12.3	21.8	21.8	23.4	23.2	27.8	27.2	23.7	7.1	7.8	7.8	7.8	11.7	11.4	9.9
POWER																	
AVE POWER MW		65	104	184	184	198	196	235	227	186	53	57	57	57	87	87	79
PEAK POW MW		350	355	356	356	356	356	356	349	296	285	285	285	285	306	312	339
ENERGY GWH	1242.9	23.3	17.5	39.8	132.8	147.4	141.1	174.6	169.3	134.0	39.3	20.6	9.6	10.9	65.0	65.0	52.9
--GAVINS POINT--																	
NAT INFLOW	1242	90	42	54	124	136	143	79	79	57	108	47	22	25	69	67	101
DEPLETION	114	0	0	0	5	19	24	39	10	-5	2	5	2	3	10	1	
CHAN STOR	-1	4	-9	-18	0	-3	0	-9	1	7	31	-1	0	0	-7	1	3
EVAPORATION	47							3	9	11	10	5	2	2	5		
REG INFLOW	13655	327	205	425	1416	1556	1500	1740	1735	1466	564	268	125	143	766	768	654
RELEASE	13655	327	205	425	1416	1556	1500	1740	1722	1440	564	268	125	143	766	768	693
STOR CHANGE									13	26							-39
STORAGE	358	358	358	358	358	358	358	358	371	397	397	397	397	397	397	397	358
ELEV FTMSL	1206.0	1206.0	1206.0	1206.0	1206.0	1206.0	1206.0	1206.0	1206.5	1207.5	1207.5	1207.5	1207.5	1207.5	1207.5	1207.5	1206.0
DISCH KCFS	12.5	11.0	14.7	23.8	23.8	25.3	25.2	28.3	28.0	24.2	9.2	9.0	9.0	9.0	12.5	12.5	12.5
POWER																	
AVE POWER MW		39	51	82	82	87	86	96	96	84	33	32	32	32	44	44	44
PEAK POW MW		114	114	114	114	114	114	114	115	117	117	117	117	117	78	78	76
ENERGY GWH	571.9	13.9	8.6	17.6	58.7	64.4	62.1	71.6	71.3	60.8	24.3	11.6	5.4	6.2	32.9	33.0	29.6
--GAVINS POINT - SIOUX CITY--																	
NAT INFLOW	730	48	23	29	102	191	141	63	29	20	18	13	6	7	13	-7	35
DEPLETION	255	6	3	4	21	35	30	38	35	23	10	6	3	3	12	13	14
REGULATED FLOW AT SIOUX CITY																	
KAF	14130	369	224	450	1497	1712	1611	1765	1716	1437	572	275	128	147	767	748	714
KCFS		12.4	16.1	25.2	25.2	27.8	27.1	28.7	27.9	24.1	9.3	9.2	9.2	9.2	12.5	12.2	12.8
--TOTAL--																	
NAT INFLOW	17698	1020	476	612	1881	2401	4138	2219	878	727	866	411	192	219	447	449	763
DEPLETION	2545	37	17	22	174	669	1474	973	210	-216	-76	-134	-62	-71	-185	-180	-108
CHAN STOR	-1	64	3	-18	-54	-37	9	5	4	65	48	-2	0	-42	-44	-11	8
EVAPORATION	1445							91	281	346	299	135	63	72	157		
STORAGE	31545	32223	32460	32581	32737	32721	33783	33178	31853	31079	31198	31331	31393	31423	31087	30957	31123
SYSTEM POWER																	
AVE POWER MW		511	630	745	833	931	882	1018	947	589	345	382	381	445	649	607	659
PEAK POW MW		1954	1953	1954	1956	1955	1975	1957	1934	1907	1902	1905	1906	1907	1880	1887	1898
ENERGY GWH	6185.2	184.1	105.8	160.9	600.0	692.3	634.7	757.2	704.7	424.3	256.5	137.4	64.0	85.5	482.6	451.9	443.1
DAILY GWH		12.3	15.1	17.9	20.0	22.3	21.2	24.4	22.7	14.1	8.3	9.2	9.1	10.7	15.6	14.6	15.8

INI-SUM 15MAR 22MAR 31MAR 30APR 31MAY 30JUN 31JUL 31AUG 30SEP 31OCT 15NOV 22NOV 30NOV 31DEC 31JAN 28FEB

	29FEB09	2009												2010			
	INI-SUM	15MAR	22MAR	31MAR	30APR	31MAY	30JUN	31JUL	31AUG	30SEP	31OCT	15NOV	22NOV	30NOV	31DEC	31JAN	28FEB
--FORT PECK--																	
NAT INFLOW	5748	264	123	158	580	882	1123	495	285	273	361	179	83	95	305	231	310
DEPLETION	432	-10	-5	-6	63	316	511	185	-29	-130	-64	-35	-16	-19	-111	-127	-92
EVAPORATION	366							23	70	87	77	35	16	19	40		
MOD INFLOW	4950	274	128	164	517	566	612	287	244	316	348	179	83	95	376	358	402
RELEASE	4914	119	56	71	298	400	536	523	492	332	245	146	83	127	492	523	472
STOR CHANGE	36	155	72	93	219	166	76	-235	-248	-16	103	32	0	-32	-116	-165	-70
STORAGE	7516	7671	7743	7836	8056	8222	8298	8063	7815	7799	7902	7934	7934	7903	7787	7622	7552
ELEV FTMSL	2189.6	2190.7	2191.2	2191.9	2193.5	2194.7	2195.2	2193.6	2191.8	2191.7	2192.4	2192.6	2192.6	2192.4	2191.6	2190.3	2189.8
DISCH KCFS	8.0	4.0	4.0	4.0	5.0	6.5	9.0	8.5	8.0	5.6	4.0	4.9	6.0	8.0	8.0	8.5	8.5
POWER																	
AVE POWER MW		44	44	45	56	74	102	96	90	62	45	55	67	89	89	94	93
PEAK POW MW		115	115	116	119	121	121	119	116	116	117	118	118	117	116	114	113
ENERGY GWH	665.3	15.9	7.5	9.6	40.5	54.8	73.6	71.6	66.6	44.8	33.2	19.9	11.3	17.2	66.3	69.8	62.7
--GARRISON--																	
NAT INFLOW	8762	324	151	194	840	1084	2425	1533	433	332	468	194	90	103	130	192	268
DEPLETION	1005	-3	-1	-2	-2	203	748	557	95	-131	-11	-100	-46	-53	-109	-83	-57
CHAN STOR	-6	46			-12	-17	-29	6	6	27	18	-10	-12	-23		-6	0
EVAPORATION	434							26	84	104	91	41	19	22	47		
REG INFLOW	12232	492	208	268	1128	1263	2184	1478	752	718	651	388	189	239	684	792	797
RELEASE	12152	417	167	214	893	1107	1190	1199	1168	686	709	431	208	254	1168	1230	1111
STOR CHANGE	80	76	42	53	235	157	994	279	-416	32	-58	-44	-20	-15	-484	-438	-314
STORAGE	8967	9043	9085	9138	9374	9530	10524	10803	10387	10419	10361	10317	10298	10283	9799	9361	9047
ELEV FTMSL	1800.5	1800.9	1801.1	1801.4	1802.6	1803.4	1808.2	1809.5	1807.5	1807.7	1807.4	1807.2	1807.1	1807.0	1804.7	1802.5	1800.9
DISCH KCFS	18.5	14.0	12.0	12.0	15.0	18.0	20.0	19.5	19.0	11.5	11.5	14.5	15.0	16.0	19.0	20.0	20.0
POWER																	
AVE POWER MW		134	115	116	145	175	199	199	193	117	117	147	151	161	189	195	192
PEAK POW MW		334	335	336	341	343	361	366	358	359	358	357	357	357	348	340	334
ENERGY GWH	1457.3	48.2	19.4	25.0	104.4	130.2	143.1	147.9	143.8	84.3	87.1	52.8	25.4	31.0	140.7	145.2	129.0
--OAHE--																	
NAT INFLOW	1323	249	116	149	231	126	271	103	26	81	7	-7	-3	-3	-61	-15	52
DEPLETION	654	23	11	14	48	69	139	165	109	27	-10	2	1	1	12	17	27
CHAN STOR	-7	26	11		-17	-17	-11	3	3	45		-17	-3	-6	-17	-6	
EVAPORATION	342							21	64	80	71	33	15	18	39		
REG INFLOW	12472	668	283	350	1059	1147	1311	1119	1024	705	655	373	186	226	1039	1192	1136
RELEASE	12466	415	268	361	1238	1401	1218	1728	1517	425	552	259	120	137	1021	804	1000
STOR CHANGE	6	253	15	-11	-179	-254	93	-610	-493	279	103	114	66	89	18	388	136
STORAGE	9536	9789	9804	9793	9614	9360	9452	8842	8349	8629	8731	8845	8911	9000	9018	9406	9542
ELEV FTMSL	1568.9	1570.3	1570.3	1570.3	1569.3	1567.9	1568.4	1564.9	1561.9	1563.6	1564.2	1564.9	1565.3	1565.8	1565.9	1568.2	1568.9
DISCH KCFS	18.0	14.0	19.3	20.2	20.8	22.8	20.5	28.1	24.7	7.1	9.0	8.7	8.7	8.7	16.6	13.1	18.0
POWER																	
AVE POWER MW		145	201	210	216	234	210	284	244	71	90	88	87	88	168	133	185
PEAK POW MW		516	516	516	510	503	506	488	473	482	485	488	490	493	493	505	508
ENERGY GWH	1534.4	52.1	33.8	45.4	155.2	174.1	151.1	211.5	181.6	51.1	66.8	31.5	14.7	16.8	124.9	99.3	124.5
--BIG BEND--																	
EVAPORATION	129							8	24	31	27	12	6	7	14		
REG INFLOW	12337	415	268	361	1238	1401	1218	1721	1493	394	525	247	114	131	1007	804	1000
RELEASE	12337	415	268	361	1238	1401	1218	1721	1493	394	525	247	114	131	1007	804	1000
STORAGE	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622
ELEV FTMSL	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0
DISCH KCFS	18.0	14.0	19.3	20.2	20.8	22.8	20.5	28.0	24.3	6.6	8.5	8.3	8.2	8.2	16.4	13.1	18.0
POWER																	
AVE POWER MW		66	91	95	97	107	96	131	115	34	43	42	42	42	82	65	86
PEAK POW MW		518	511	509	509	509	509	509	518	538	538	538	538	538	538	538	529
ENERGY GWH	714.5	23.8	15.2	20.4	70.1	79.4	69.0	97.5	85.5	24.2	32.2	15.1	7.0	8.0	60.7	48.2	58.0
--FORT RANDALL--																	
NAT INFLOW	433	80	37	48	62	50	174	19	52	-15	-75	-4	-2	-2		-9	17
DEPLETION	80	1	1	1	4	9	12	18	15	7	1	1	0	1	3	3	3
EVAPORATION	128							10	31	32	22	10	5	5	13		
REG INFLOW	12551	494	305	408	1296	1442	1380	1712	1499	330	426	232	108	123	991	792	1014
RELEASE	12552	232	158	391	1296	1442	1380	1712	1673	1409	427	232	108	123	719	701	550
STOR CHANGE	-1	262	147	17				0	-174	-1079	0	0	0	0	272	91	464
STORAGE	3124	3385	3532	3549	3549	3549	3549	3549	3375	2296	2296	2296	2296	2296	2568	2659	3123
ELEV FTMSL	1350.0	1353.3	1355.0	1355.2	1355.2	1355.2	1355.2	1355.2	1353.1	1337.5	1337.5	1337.5	1337.5	1337.5	1342.1	1343.5	1350.0
DISCH KCFS	9.9	7.8	11.4	21.9	21.8	23.4	23.2	27.8	27.2	23.7	6.9	7.8	7.8	7.8	11.7	11.4	9.9
POWER																	
AVE POWER MW		65	96	185	184	198	196	235	227	184	51	57	57	57	87	87	79
PEAK POW MW		350	355	356	356	356	356	356	349	284	285	285	285	285	306	312	339
ENERGY GWH	1238.7	23.3	16.2	39.9	132.6	147.4	141.1	174.6	169.2	132.4	37.9	20.6	9.6	10.9	64.9	65.0	52.9
--GAVINS POINT--																	
NAT INFLOW	1246	91	42	54	125	136	143	79	79	57	108	47	22	25	70	68	101
DEPLETION	114	0	0	0	5	19	24	39	10	-5	2	5	2	3	10	1	
CHAN STOR	-1	4	-7	-20	0	-3	0	-9	1	7	31	-2	0	0	-7	1	3
EVAPORATION	47							3	9	11	10	5	2	2	5		
REG INFLOW	13636	327	194	425	1416	1556	1500	1740	1735	1466	553	268	125	143	767	769	654
RELEASE	13636	327	194	425	1416	1556	1500	1740	1722	1440	553	268	125	143	767	769	693
STOR CHANGE									13	26							-39
STORAGE	358	358	358	358	358	358	358	358	371	397	397	397	397	397	397	397	358
ELEV FTMSL	1206.0	1206.0	1206.0	1206.0	1206.0	1206.0	1206.0	1206.0	1206.5	1207.5	1207.5	1207.5	1207.5	1207.5	1207.5	1207.5	1206.0
DISCH KCFS	12.5	11.0	14.0	23.8	23.8	25.3	25.2	28.3	28.0	24.2	9.0	9.0	9.0	9.0	12.5	12.5	12.5
POWER																	
AVE POWER MW		39	49	82	82	87	86	96	96	84	32	32	32	32	44	44	44
PEAK POW MW		114	114	114	114	114	114	114	115	117	117	117	117	117	78	78	76
ENERGY GWH	571.1	13.9	8.2	17.6	58.7	64.4	62.1	71.6	71.3	60.8	23.9	11.6	5.4	6.2	33.0	33.0	29.6
--GAVINS POINT - SIOUX CITY--																	
NAT INFLOW	785	52	24	31	110	205	151	68	31	21	20	14	6	7	14	-7	38
DEPLETION	255	6	3	4	21	35	30	38	35	23	10	6	3	3	12	13	14
REGULATED FLOW AT SIOUX CITY																	
KAF	14166	373	215	452	1505	1726	1621	1770	1718	1438	563	276	129	147	769	749	717
KCFS		12.5	15.5	25.3	25.3	28.1	27.2	28.8	27.9	24.2	9.2	9.3	9.3	9.3	12.5	12.2	12.9
--TOTAL--																	
NAT INFLOW	18297	1060	494	636	1948	2483	4287	2297	906	749	889	422	197	225	458	460	786
DEPLETION	2540	18	8	11	139	651	1464	1002	235	-209	-72	-122	-57	-65	-183	-176	-105
CHAN STOR	-24	76	4	-20	-28	-37	-39	0	10	68	49	-29	-15	-28	-25	-11	3
EVAPORATION	1446							91	282	346	299	136	63	73	157		
STORAGE	31123	31868	32144	32296	32572	32641	33804	33237	31919	31161	31309	31411	31458	31500	31190	31067	31244
SYSTEM POWER																	
AVE POWER MW		492	597	731	780	874	889	1041	965	552	378	421	437	469	659	619	680
PEAK POW MW		1947	1947	1948	1950	1947	1968	1952	1931	1896	1900	1903	1905	1907	1880	1887	1900
ENERGY GWH	6181.3	177.2	100.2	158.0	561.5	650.2	640.0	774.7	717.9	397.7	281.1	151.5	73.4	90.1	490.5	460.6	456.7
DAILY GWH		11.8	14.3	17.6	18.7	21.0	21.3	25.0	23.2	13.3	9.1	10.1	10.5	11.3	15.8	14.9	16.3

28FEB10		2010											2011		
	INI-SUM	15MAR	22MAR	31MAR	30APR	31MAY	30JUN	31JUL	31AUG	30SEP	31OCT	15NOV	22NOV	30NOV	31DEC	31JAN	28FEB
--FORT PECK--																	
NAT INFLOW	5919	272	127	163	598	909	1156	509	294	281	371	184	86	98	314	238	319
DEPLETION	443	-10	-5	-6	63	317	515	192	-25	-130	-67	-36	-17	-19	-111	-128	-92
EVAPORATION	372							23	71	88	78	35	17	19	41		
MOD INFLOW	5104	282	131	169	535	592	641	294	248	323	360	184	86	98	384	366	411
RELEASE	4870	119	56	71	298	430	506	523	492	336	255	130	69	127	492	523	444
STOR CHANGE	234	163	76	98	237	162	135	-228	-244	-14	106	54	16	-29	-108	-157	-33
STORAGE	7552	7715	7790	7888	8125	8287	8422	8194	7950	7937	8042	8097	8113	8084	7976	7820	7786
ELEV FTMSL	2189.8	2191.0	2191.6	2192.3	2194.0	2195.2	2196.1	2194.5	2192.8	2192.7	2193.4	2193.8	2193.9	2193.7	2192.9	2191.8	2191.6
DISCH KCFS	8.5	4.0	4.0	4.0	5.0	7.0	8.5	8.5	8.0	5.6	4.1	4.4	5.0	8.0	8.0	8.5	8.0
POWER																	
AVE POWER MW		44	45	45	56	80	97	97	90	63	47	49	57	90	90	95	89
PEAK POW MW		115	116	117	120	121	123	120	118	118	119	119	119	119	118	116	116
ENERGY GWH	664.1	15.9	7.5	9.7	40.6	59.2	69.9	72.1	67.1	45.7	34.8	17.8	9.5	17.3	66.9	70.6	59.7
--GARRISON--																	
NAT INFLOW	9185	340	158	204	881	1136	2542	1607	454	349	491	203	95	108	136	201	281
DEPLETION	1031	0	0	0	2	203	764	573	100	-134	-16	-103	-48	-55	-111	-85	-58
CHAN STOR	6	52			-11	-23	-17	0	6	26	17	-2	-7	-34		-6	6
EVAPORATION	439							27	85	106	92	41	19	22	47		
REG INFLOW	12591	511	214	275	1165	1341	2267	1530	766	740	687	391	185	234	692	803	789
RELEASE	12320	417	167	214	893	1138	1190	1199	1168	952	754	416	194	286	1138	1168	1027
STOR CHANGE	271	95	48	61	272	203	1077	331	-402	-212	-67	-25	-9	-51	-446	-365	-238
STORAGE	9047	9142	9189	9251	9523	9726	10803	11133	10731	10519	10452	10428	10419	10368	9922	9557	9318
ELEV FTMSL	1800.9	1801.4	1801.6	1801.9	1803.3	1804.3	1809.5	1810.9	1809.1	1808.1	1807.8	1807.7	1807.7	1807.4	1805.3	1803.5	1802.3
DISCH KCFS	20.0	14.0	12.0	12.0	15.0	18.5	20.0	19.5	19.0	16.0	12.3	14.0	14.0	18.0	18.5	19.0	18.5
POWER																	
AVE POWER MW		134	116	116	146	181	201	201	196	163	125	142	142	182	185	187	180
PEAK POW MW		336	337	338	343	347	366	371	364	361	360	359	359	358	350	344	339
ENERGY GWH	1489.8	48.4	19.5	25.1	105.0	134.7	144.4	149.5	145.6	117.6	92.9	51.1	23.8	34.9	137.6	139.0	120.7
--OAHE--																	
NAT INFLOW	1408	265	123	159	245	134	288	110	28	86	7	-7	-3	-3	-64	-16	56
DEPLETION	666	24	11	14	49	70	142	169	112	27	-10	1	0	1	12	17	27
CHAN STOR	10	34	11		-17	-20	-9	3	3	18	22	-10	0	-23	-3	-3	3
EVAPORATION	352							22	65	82	74	34	16	18	40		
REG INFLOW	12719	692	290	359	1072	1182	1328	1121	1022	946	718	364	175	240	1018	1132	1059
RELEASE	12420	408	265	356	1232	1395	1200	1726	1512	426	558	259	120	137	1022	804	998
STOR CHANGE	299	283	25	3	-160	-213	128	-605	-490	520	160	105	54	103	-4	328	61
STORAGE	9542	9825	9851	9854	9694	9481	9608	9003	8513	9033	9192	9298	9352	9455	9451	9780	9841
ELEV FTMSL	1568.9	1570.5	1570.6	1570.6	1569.7	1568.6	1569.3	1565.8	1562.9	1566.0	1566.9	1567.5	1567.9	1568.4	1568.4	1570.2	1570.6
DISCH KCFS	18.0	13.7	19.1	19.9	20.7	22.7	20.2	28.1	24.6	7.2	9.1	8.7	8.7	8.7	16.6	13.1	18.0
POWER																	
AVE POWER MW		143	199	208	215	234	208	286	245	72	92	89	89	89	171	136	187
PEAK POW MW		517	517	517	513	507	510	493	478	494	498	501	503	506	506	515	517
ENERGY GWH	1541.6	51.3	33.4	44.8	154.8	174.0	149.6	212.6	182.3	51.9	68.8	32.1	14.9	17.1	127.2	100.8	125.7
--BIG BEND--																	
EVAPORATION	129							8	24	31	27	12	6	7	14		
REG INFLOW	12291	408	265	356	1232	1395	1200	1719	1488	395	531	247	114	131	1008	804	998
RELEASE	12291	408	265	356	1232	1395	1200	1719	1488	395	531	247	114	131	1008	804	998
STORAGE	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622
ELEV FTMSL	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0
DISCH KCFS	18.0	13.7	19.1	19.9	20.7	22.7	20.2	28.0	24.2	6.6	8.6	8.3	8.2	8.3	16.4	13.1	18.0
POWER																	
AVE POWER MW		65	89	93	97	106	94	131	114	34	44	42	42	42	82	65	86
PEAK POW MW		518	511	509	509	509	509	509	518	538	538	538	538	538	538	538	529
ENERGY GWH	711.9	23.4	15.0	20.2	69.8	79.0	68.0	97.4	85.2	24.3	32.6	15.2	7.0	8.0	60.8	48.2	57.9
--FORT RANDALL--																	
NAT INFLOW	476	88	41	53	68	55	191	21	57	-16	-82	-4	-2	-2		-10	19
DEPLETION	80	1	1	1	4	9	12	18	15	7	1	1	0	1	3	3	3
EVAPORATION	128							10	31	32	22	10	5	5	13		
REG INFLOW	12548	495	305	407	1296	1441	1379	1712	1499	330	425	232	107	123	992	791	1014
RELEASE	12548	232	158	390	1296	1441	1379	1712	1673	1409	426	232	107	123	719	701	550
STOR CHANGE	1	262	147	17				0	-174	-1078	0	0	0	0	273	90	464
STORAGE	3123	3385	3532	3549	3549	3549	3549	3549	3375	2297	2296	2296	2296	2296	2569	2659	3123
ELEV FTMSL	1350.0	1353.3	1355.0	1355.2	1355.2	1355.2	1355.2	1355.2	1353.1	1337.5	1337.5	1337.5	1337.5	1337.5	1342.1	1343.5	1350.0
DISCH KCFS	9.9	7.8	11.4	21.9	21.8	23.4	23.2	27.8	27.2	23.7	6.9	7.8	7.7	7.7	11.7	11.4	9.9
POWER																	
AVE POWER MW		65	96	185	184	198	196	235	227	184	51	57	57	57	87	87	79
PEAK POW MW		350	355	356	356	356	356	356	349	284	285	285	285	285	306	312	339
ENERGY GWH	1238.3	23.3	16.2	39.9	132.6	147.3	141.0	174.6	169.3	132.4	37.8	20.6	9.5	10.9	64.9	65.0	52.9
--GAVINS POINT--																	
NAT INFLOW	1252	91	42	55	125	137	144	79	79	57	109	47	22	25	70	68	102
DEPLETION	114	0	0	0	5	19	24	39	10	-5	2	5	2	3	10	1	
CHAN STOR	-1	4	-7	-20	0	-3	0	-9	1	7	31	-2	0	0	-7	1	3
EVAPORATION	47							3	9	11	10	5	2	2	5		
REG INFLOW	13638	328	194	425	1416	1556	1500	1740	1735	1466	553	268	125	143	767	769	655
RELEASE	13638	328	194	425	1416	1556	1500	1740	1722	1440	553	268	125	143	767	769	694
STOR CHANGE									13	26							-39
STORAGE	358	358	358	358	358	358	358	358	371	397	397	397	397	397	397	397	358
ELEV FTMSL	1206.0	1206.0	1206.0	1206.0	1206.0	1206.0	1206.0	1206.0	1206.5	1207.5	1207.5	1207.5	1207.5	1207.5	1207.5	1207.5	1206.0
DISCH KCFS	12.5	11.0	14.0	23.8	23.8	25.3	25.2	28.3	28.0	24.2	9.0	9.0	9.0	9.0	12.5	12.5	12.5
POWER																	
AVE POWER MW		39	49	82	82	87	86	96	96	84	32	32	32	32	44	44	44
PEAK POW MW		114	114	114	114	114	114	114	115	117	117	117	117	117	78	78	76
ENERGY GWH	571.2	13.9	8.2	17.6	58.7	64.4	62.1	71.6	71.3	60.8	23.9	11.6	5.4	6.2	33.0	33.0	29.6
--GAVINS POINT - SIOUX CITY--																	
NAT INFLOW	862	57	27	34	121	225	166	74	34	23	22	15	7	8	16	-8	41
DEPLETION	263	7	3	4	22	35	31	38	36	24	10	6	3	3	13	14	14
REGULATED FLOW AT SIOUX CITY																	
KAF	14237	378	217	455	1515	1746	1635	1776	1720	1439	565	277	129	148	770	747	721
KCFS		12.7	15.7	25.5	25.5	28.4	27.5	28.9	28.0	24.2	9.2	9.3	9.3	9.3	12.5	12.1	13.0
--TOTAL--																	
NAT INFLOW	19102	1112	519	667	2038	2596	4487	2400	946	780	918	438	204	234	472	473	818
DEPLETION	2597	21	10	13	145	653	1488	1029	248	-211	-80	-126	-59	-67	-184	-178	-106
CHAN STOR	4	90	4	-20	-28	-46	-25	-6	10	41	69	-14	-7	-57	-10	-8	11
EVAPORATION	1467							92	285	351	303	138	64	74	160		
STORAGE	31244	32047	32343	32521	32871	33023	34362	33859	32562	31804	32002	32137	32199	32222	31938	31834	32049
SYSTEM POWER																	
AVE POWER MW		490	593	728	780	885	882	1045	969	601	391	412	418	492	659	614	665
PEAK POW MW		1950	1951	1952	1955	1955	1978	1964	1943	1911	1917	1920	1921	1923	1896	1904	1917
ENERGY GWH	6216.8	176.3	99.7	157.3	561.6	658.6	635.0	777.8	720.6	432.7	290.6	148.3	70.2	94.5	490.4	456.6	446.6
DAILY GWH		11.8	14.2	17.5	18.7	21.2	21.2	25.1	23.2	14.4	9.4	9.9	10.0	11.8	15.8	14.7	15.9
	INI-SUM	15MAR	22MAR	31MAR	30APR	31MAY	30JUN	31JUL	31AUG	30SEP	31OCT	15NOV	22NOV	30NOV	31DEC	31JAN	28FEB

VALUES IN 1000 AF EXCEPT AS INDICATED

	28FEB11	2011												2012		
	INI-SUM	15MAR	22MAR	31MAR	30APR	31MAY	30JUN	31JUL	31AUG	30SEP	31OCT	15NOV	22NOV	30NOV	31DEC	31JAN	29FEB
--FORT PECK--																	
NAT INFLOW	5961	274	128	164	602	915	1164	513	296	283	374	185	86	99	317	240	321
DEPLETION	454	-10	-5	-6	63	318	519	199	-20	-130	-68	-35	-16	-19	-110	-126	-101
EVAPORATION	353							23	72	91	79	23	11	12	42		
MOD INFLOW	5154	284	132	170	539	597	645	291	244	322	363	197	92	105	385	366	422
RELEASE	4903	119	56	71	298	461	506	492	461	357	275	137	69	127	492	523	460
STOR CHANGE	251	165	77	99	241	136	139	-201	-218	-35	88	61	23	-22	-107	-157	-38
STORAGE	7786	7951	8028	8126	8368	8504	8643	8442	8224	8190	8278	8338	8361	8339	8232	8076	8037
ELEV FTMSL	2191.6	2192.8	2193.3	2194.0	2195.7	2196.7	2197.6	2196.2	2194.7	2194.5	2195.1	2195.5	2195.7	2195.5	2194.8	2193.7	2193.4
DISCH KCFS	8.0	4.0	4.0	4.0	5.0	7.5	8.5	8.0	7.5	6.0	4.5	4.6	5.0	8.0	8.0	8.5	8.0
POWER																	
AVE POWER MW		45	45	45	57	86	98	92	86	68	51	53	57	91	91	96	90
PEAK POW MW		118	118	120	122	123	125	123	121	120	121	122	122	122	121	119	119
ENERGY GWH	676.9	16.1	7.6	9.8	41.1	64.1	70.7	68.7	63.7	49.1	37.9	18.9	9.6	17.5	67.8	71.5	62.7
--GARRISON--																	
NAT INFLOW	9293	344	160	206	891	1150	2572	1626	460	353	496	205	96	109	137	204	284
DEPLETION	1144	0	0	0	2	203	774	614	106	-137	-20	-111	-52	-59	-83	-55	-37
CHAN STOR	0	46			-11	-28	-11	6	6	17	17	-1	-5	-33		-6	6
EVAPORATION	420							28	87	108	94	27	13	14	49		
REG INFLOW	12632	509	216	278	1175	1380	2293	1482	733	756	714	424	200	248	663	776	787
RELEASE	12316	387	167	214	893	1076	1190	1199	1168	952	691	351	164	286	1199	1230	1150
STOR CHANGE	316	122	49	64	283	304	1102	283	-435	-197	23	73	36	-38	-536	-454	-364
STORAGE	9318	9441	9490	9554	9836	10140	11242	11525	11090	10894	10916	10990	11025	10988	10452	9998	9634
ELEV FTMSL	1802.3	1802.9	1803.2	1803.5	1804.9	1806.3	1811.4	1812.7	1810.8	1809.9	1810.0	1810.3	1810.5	1810.3	1807.8	1805.7	1803.9
DISCH KCFS	18.5	13.0	12.0	12.0	15.0	17.5	20.0	19.5	19.0	16.0	11.2	11.8	11.8	18.0	19.5	20.0	20.0
POWER																	
AVE POWER MW		127	117	118	148	174	204	204	198	166	116	122	123	186	199	200	197
PEAK POW MW		342	343	344	349	354	373	377	370	367	367	369	369	369	360	352	345
ENERGY GWH	1513.1	45.5	19.7	25.4	106.3	129.5	146.8	151.8	147.6	119.2	86.5	44.0	20.6	35.7	148.2	149.1	137.2
--OAHE--																	
NAT INFLOW	1429	269	125	161	249	136	293	112	29	87	7	-7	-3	-4	-65	-16	56
DEPLETION	681	24	11	14	49	71	145	173	116	28	-10	1	0	1	12	18	28
CHAN STOR	-7	31	6		-17	-14	-14	3	3	18	27	-3		-35	-8	-3	
EVAPORATION	333							22	67	84	76	22	10	12	41		
REG INFLOW	12724	662	286	361	1076	1127	1324	1119	1018	945	660	318	150	234	1073	1193	1178
RELEASE	12412	406	263	354	1230	1394	1196	1726	1510	426	560	249	116	132	1022	804	1022
STOR CHANGE	312	257	23	7	-154	-267	128	-608	-493	518	99	69	34	102	51	389	156
STORAGE	9841	10098	10121	10128	9974	9707	9835	9228	8735	9253	9352	9421	9455	9558	9608	9997	10153
ELEV FTMSL	1570.6	1571.9	1572.0	1572.1	1571.3	1569.8	1570.5	1567.1	1564.2	1567.3	1567.9	1568.2	1568.4	1569.0	1569.3	1571.4	1572.2
DISCH KCFS	18.0	13.6	19.0	19.8	20.7	22.7	20.1	28.1	24.6	7.2	9.1	8.4	8.3	8.3	16.6	13.1	17.8
POWER																	
AVE POWER MW		143	199	209	217	236	209	288	247	73	93	86	86	86	172	136	187
PEAK POW MW		524	525	525	521	513	517	499	485	500	503	505	506	509	510	522	526
ENERGY GWH	1553.6	51.5	33.5	45.1	156.1	175.5	150.4	214.4	183.9	52.4	69.6	31.0	14.4	16.5	127.8	101.5	130.0
--BIG BEND--																	
EVAPORATION	120							8	24	31	27	8	4	4	14		
REG INFLOW	12292	406	263	354	1230	1394	1196	1719	1486	395	533	241	112	128	1008	804	1022
RELEASE	12292	406	263	354	1230	1394	1196	1719	1486	395	533	241	112	128	1008	804	1022
STORAGE	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622	1622
ELEV FTMSL	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0	1420.0
DISCH KCFS	18.0	13.6	19.0	19.8	20.7	22.7	20.1	28.0	24.2	6.6	8.7	8.1	8.1	8.1	16.4	13.1	17.8
POWER																	
AVE POWER MW		65	89	93	97	106	94	131	114	34	44	41	41	41	82	65	85
PEAK POW MW		518	511	509	509	509	509	509	518	538	538	538	538	538	538	538	529
ENERGY GWH	712.0	23.2	14.9	20.1	69.7	79.0	67.8	97.4	85.1	24.3	32.7	14.8	6.9	7.9	60.8	48.2	59.3
--FORT RANDALL--																	
NAT INFLOW	489	90	42	54	70	56	195	21	59	-16	-84	-4	-2	-2		-10	20
DEPLETION	80	1	1	1	4	9	12	18	15	7	1	1	0	1	3	3	3
EVAPORATION	121							10	31	32	22	6	3	3	13		
REG INFLOW	12570	494	305	407	1296	1441	1379	1712	1499	330	425	230	107	122	992	791	1039
RELEASE	12570	232	158	390	1296	1441	1379	1712	1673	1409	426	230	107	122	719	701	575
STOR CHANGE	0	262	147	17				0	-174	-1078	0	0	0	0	273	90	464
STORAGE	3123	3385	3532	3549	3549	3549	3549	3549	3375	2297	2297	2296	2296	2296	2569	2659	3123
ELEV FTMSL	1350.0	1353.3	1355.0	1355.2	1355.2	1355.2	1355.2	1355.2	1353.1	1337.5	1337.5	1337.5	1337.5	1337.5	1342.1	1343.5	1350.0
DISCH KCFS	9.9	7.8	11.4	21.9	21.8	23.4	23.2	27.8	27.2	23.7	6.9	7.7	7.7	7.7	11.7	11.4	10.0
POWER																	
AVE POWER MW		65	96	185	184	198	196	235	227	184	51	57	56	56	87	87	79
PEAK POW MW		350	355	356	356	356	356	356	349	284	285	285	285	285	306	312	339
ENERGY GWH	1240.4	23.3	16.2	39.9	132.6	147.3	141.0	174.6	169.3	132.4	37.8	20.4	9.5	10.8	65.0	65.0	55.3
--GAVINS POINT--																	
NAT INFLOW	1252	91	42	55	125	137	144	79	79	57	109	47	22	25	70	68	102
DEPLETION	114	0	0	0	5	19	24	39	10	-5	2	5	2	3	10	1	
CHAN STOR	-1	4	-7	-20	0	-3	0	-9	1	7	31	-2	0	0	-7	1	3
EVAPORATION	44							3	9	11	10	3	1	2	5		
REG INFLOW	13663	328	194	425	1416	1556	1500	1740	1735	1466	553	268	125	143	767	769	680
RELEASE	13663	328	194	425	1416	1556	1500	1740	1722	1440	553	268	125	143	767	769	719
STOR CHANGE									13	26							-39
STORAGE	358	358	358	358	358	358	358	358	371	397	397	397	397	397	397	397	358
ELEV FTMSL	1206.0	1206.0	1206.0	1206.0	1206.0	1206.0	1206.0	1206.0	1206.5	1207.5	1207.5	1207.5	1207.5	1207.5	1207.5	1207.5	1206.0
DISCH KCFS	12.5	11.0	14.0	23.8	23.8	25.3	25.2	28.3	28.0	24.2	9.0	9.0	9.0	9.0	12.5	12.5	12.5
POWER																	
AVE POWER MW		39	49	82	82	87	86	96	96	84	32	32	32	32	44	44	44
PEAK POW MW		114	114	114	114	114	114	114	115	117	117	117	117	117	78	78	76
ENERGY GWH	572.3	13.9	8.2	17.6	58.7	64.4	62.1	71.6	71.3	60.8	23.9	11.6	5.4	6.2	33.0	33.0	30.7
--GAVINS POINT - SIOUX CITY--																	
NAT INFLOW	879	58	27	35	123	230	169	76	35	24	22	15	7	8	16	-8	42
DEPLETION	266	7	3	4	22	36	31	39	36	24	11	6	3	3	13	14	14
REGULATED FLOW AT SIOUX CITY																	
KAF	14276	379	218	456	1517	1750	1638	1777	1721	1440	564	277	129	148	770	747	747
KCFS		12.7	15.7	25.5	25.5	28.5	27.5	28.9	28.0	24.2	9.2	9.3	9.3	9.3	12.5	12.1	13.0
--TOTAL--																	
NAT INFLOW	19303	1125	525	675	2060	2624	4537	2427	958	788	924	441	206	235	475	478	825
DEPLETION	2739	21	10	13	145	656	1505	1082	263	-213	-84	-133	-62	-71	-155	-145	-93
CHAN STOR	-19	81	-1	-20	-28	-45	-25	-1	10	31	75	-6	-4	-69	-16	-8	8
EVAPORATION	1391							93	290	357	309	89	41	47	163		
STORAGE	32049	32855	33151	33337	33707	33880	35249	34723	33417	32652	32861	33064	33157	33199	32880	32749	32928
SYSTEM POWER																	
AVE POWER MW		482	596	731	784	887	887	1046	969	609	388	391	395	493	675	629	683
PEAK POW MW		1966	1966	1968	1971	1971	1994	1979	1959	1926	1932	1935	1937	1939	1913	1921	1934
ENERGY GWH	6268.2	173.6	100.1	157.9	564.6	659.7	638.7	778.4	720.7	438.2	288.4	140.8	66.4	94.7	502.5	468.3	475.2
DAILY GWH		11.6	14.3	17.5	18.8	21.3	21.3	25.1	23.2	14.6	9.3	9.4	9.5	11.8	16.2	15.1	16.4