U.S. Army Corps of Engineers Omaha District Monthly Drought Report April 2007





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Cover Photo: Instrument installation on Snake Creek Embankment January 2007.

CURRENT CONDITIONS

The drought in the Midwest continues to plague the reservoirs on the upper Missouri River. The current drought monitor indicates that much of the upper basin is still experiencing drought conditions to some extent. Mountain snowpack on April 1 was 73 percent of normal above Fort Peck and 76 percent of normal between Fort Peck and Garrison reservoirs. This compares to last year's snowpack at the same time of 105 and 92 percent of normal, respectively. The month of March did see fairly significant moisture and runoff in the lower basin, which allowed system releases to remain at low levels.

The municipal intakes on the reservoirs appear to be in less jeopardy than a month ago. The most critical intake on the Garrison reservoir appears to be at Parshall with a summer shutdown elevation of 1797.5 and a winter shutdown elevation of 1801.5. However, the town does have a well to produce potable water in the event that the surface water intake is not operable. On the Oahe reservoir, the most critical intake appears to be the Standing Rock Sioux Tribe's Wakpala intake. This intake has shutdown elevations listed as 1566 and 1569 for summer and winter, respectively. The tribe has submitted a request for assistance to the U.S. Army Corps of Engineers for consideration.

Precipitation Departures

Precipitation departures from normal during the last 72 months for the United States are shown in Figure 1. As is evident from the figure, the western portion of the upper basin still is experiencing some long-term precipitation deficit, however the trend is tending toward normal precipitation compared to past months.

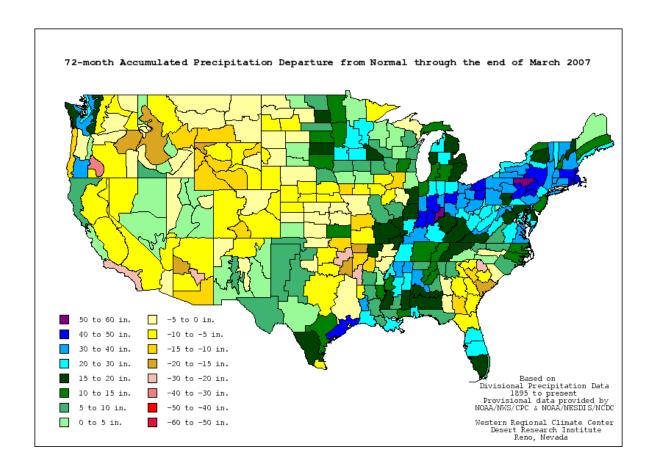
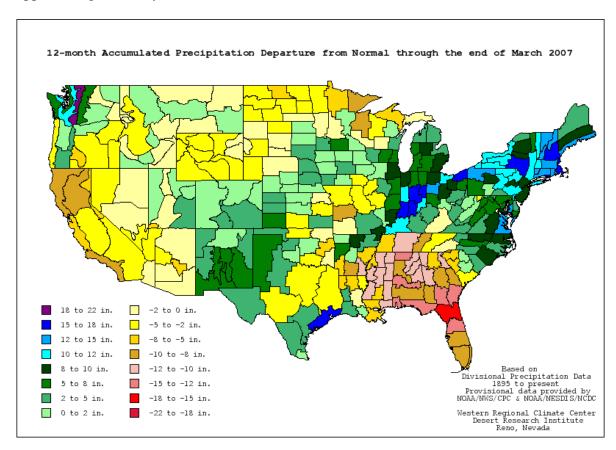


Figure 1 – 72 month Precipitation Departure From Normal http://www.wrcc.dri.edu/cgi-bin/spiFmap.pl?dep72

The 12-month precipitation accumulation in Figure 2 also indicates that precipitation is approaching normalcy.



 $Figure~2-12~month~Precipitation~Departure~From~Normal\\ \underline{http://www.wrcc.dri.edu/cgi-bin/spiFmap.pl?dep12}$

The three-month period (Figure 3) shows that much of the basin is receiving near normal short-term moisture or even a slight surplus.

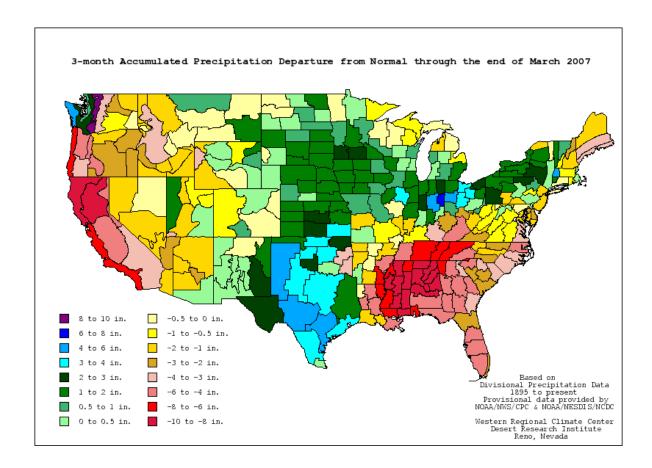


Figure 3 – 3 month Precipitation Departure From Normal http://www.wrcc.dri.edu/cgi-bin/spiFmap.pl?dep03

For the month of March, the majority of the basin received very near normal precipitation or a slight surplus (Figure 4).

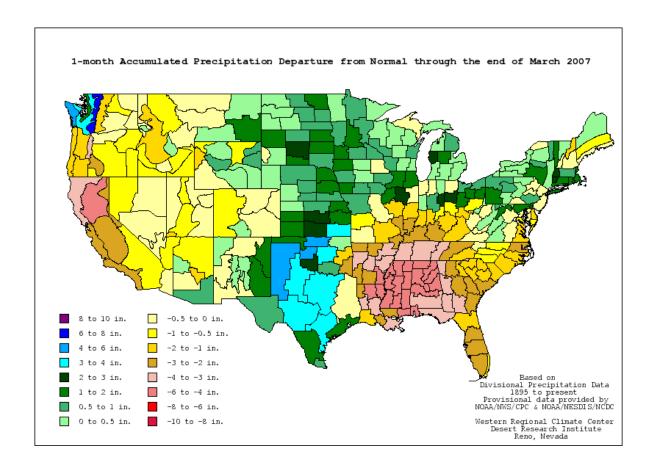


Figure 4 – 1 month Precipitation Departure From Normal http://www.wrcc.dri.edu/cgi-bin/spiFmap.pl?dep01

Drought Indicators

The Palmer Drought Severity Index and the Drought Monitor are two commonly used drought-indicator products that convey both short-term and long-term drought conditions and impacts. Both the Palmer Index and Drought Monitor depict some regions exhibiting varying degrees of drought in Nebraska, South Dakota, Wyoming, and Montana, which have been suffering from drought since 2000.

Palmer Drought Severity Index

The Palmer Drought Severity Index (PDSI) is a meteorological drought index that monitors the hydrologic water balance including the basic terms such as precipitation, evapotranspiration, soil recharge, runoff, and moisture loss. The purpose of this index is to provide standardized measurements of the moisture balance in a region without taking into account streamflow, lake and reservoir levels, and other hydrologic impacts. PDSI is a multi-month drought index; therefore, it responds well and is more suitable for short-term droughts.

Changes to the PDSI are more immediate in response to heavy precipitation over short periods. Figure 5 indicates that the majority of the basin is receiving adequate short-term moisture.

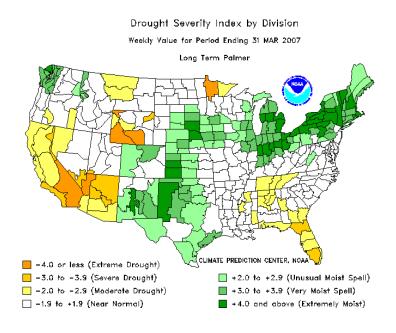


Figure 5 – Long-Term Palmer Drought Indicator Ending 31 MAR 2007 http://www.cpc.ncep.noaa.gov/products/analysis_monitoring/regional_monitoring/palmer.gif

Drought Monitor

The Drought Monitor is a multi-agency comprehensive drought classification scheme updated weekly by the National Drought Mitigation Center. The Drought Monitor combines information from the Palmer Drought Index, the Climate Prediction Center's soil moisture model, USGS weekly streamflow percentiles, the standard precipitation index, the crop moisture index, and during the snow season basin snow water content, basin average precipitation, and the surface water supply index. Since this product considers streamflow conditions and reservoir water supply, and it allows manual adjustment; it is a good depiction of long-term drought impacts to the affected areas. The Drought Monitor uses four levels of drought classification (moderate, severe, extreme, and exceptional), and it notes the type of impact caused by the drought (agricultural and hydrologic).

As is indicative of the figures below, large portions of the upper basin are still experiencing the effects of the drought.

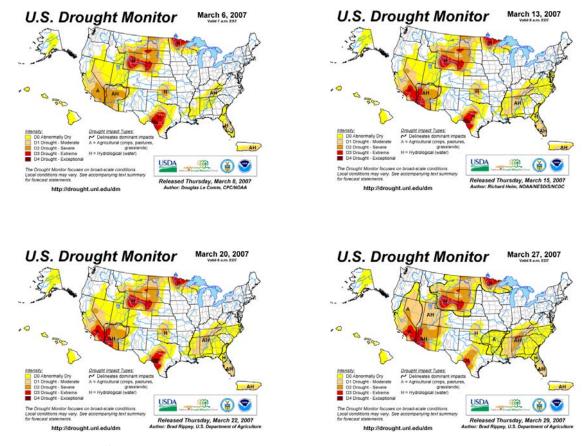


Figure 6 – U.S. Drought Monitor – March 6, 2007 through March 27, 2007 http://www.drought.unl.edu/dm/monitor.html

DROUGHT OUTLOOK

The basin drought outlook uses several expert products that indicate precipitation needs necessary to reduce the Palmer Drought to normal conditions, a one- and three-month climate outlook, and the impacts that future climate predictions could have on the current drought situation. The three-month Drought Outlook (Figure 7) indicates that most of the basin will experience some improvements with respect to the drought.

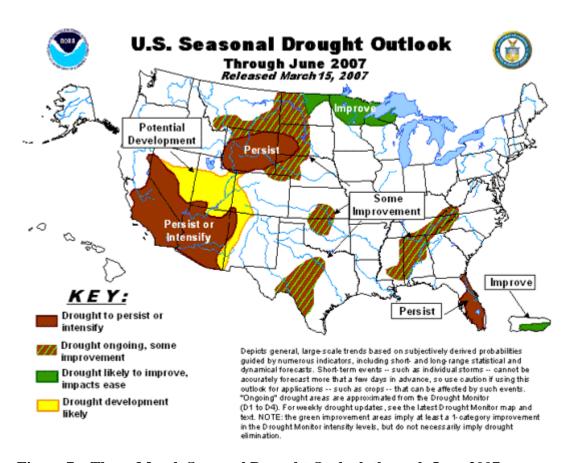


Figure 7 – Three-Month Seasonal Drought Outlook through June 2007 http://www.cpc.ncep.noaa.gov/products/expert_assessment/seasonal_drought.html

Weekly Precipitation Need

Figure 8 is the weekly precipitation needed to reduce the current Palmer Drought Severity Index value to -0.5 or near normal conditions.

Additional Precip. Needed (In.) to Bring PDI to -0.5

Weekly Value for Period Ending 31 MAR 2007

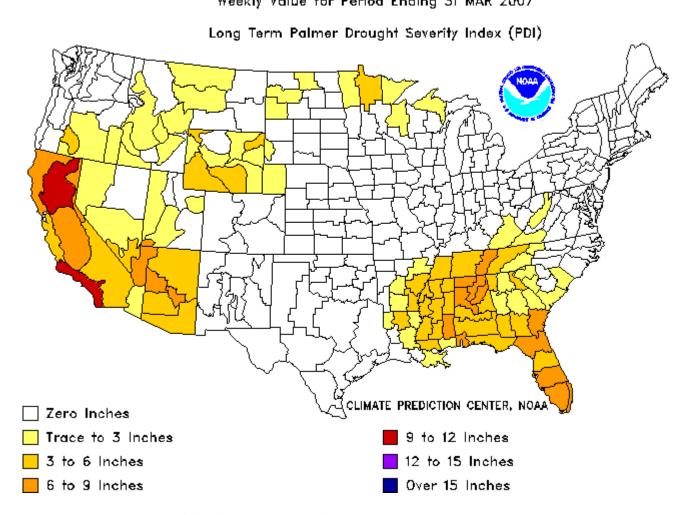


Figure 8 – Weekly Precipitation Need to Bring PDI to -0.5 http://www.cpc.ncep.noaa.gov/products/analysis_monitoring/regional_monitoring/addpcp.gif

The above figure is indicative of the recent moisture that the basin has been receiving. Most of the basin would require only a trace of moisture to reduce the PDI to a near normal condition.

The following Missouri River Region Mountain Snowpack Report for the 2006-2007 winter is taken from the U.S. Army Corps of Engineers, Northwestern Division, Missouri River Basin, Water Management Division.

Missouri River Region Mountain Snowpack Report

2006 - 2007 Mountain Snowpack Report for Missouri River Basin

Summary of Winter 2006-2007. The Missouri River runoff for 2006 was 19.0 MAF, 75% of normal. This marked the seventh consecutive year of less than normal runoff in the basin. The continued drought has taxed the System storage leaving upstream reservoir levels very low, much like what occurred in the drought of the mid 1980's and early 1990's. The forecasted runoff for 2007 is 20.5 MAF, 82% of normal. As of April 1, the mountain snowpack above Fort Peck is at 73% of normal and the mountain snowpack between Fort Peck and Garrison is 76% of normal. The mountain snowpack in the North Platte River and South Platte River basins are 80% and 100% of normal, respectively. Normally, 96% of the peak accumulation has occurred by April 1.

The following tabulation is a summary of this year's mountain snowpack accumulations and the CY 2007 runoff forecast for the first of each month. The main stem reservoirs are significantly below their base of the annual flood control zones due to seven consecutive years of drought and the system stands poised to handle significant runoff if that were to occur during 2007.

| CY 2007 Mountain Snowpack Accumulations in Percent of Normal Peak | | | | | | | | | | |
|---|------|------|------|------|-----|-----|-----|--|--|--|
| Drainage Basin | Jan | Feb | Mar | Apr | May | Jun | Jul | | | |
| Above Fort Peck Dam | 80% | 74% | 85% | 73% | % | % | % | | | |
| Fort Peck to Garrison | 77% | 74% | 83% | 76% | % | % | % | | | |
| Percent of Normal Total Acc. | 79% | 74% | 84% | 75% | % | % | % | | | |
| North Platte River | 87% | 78% | 86% | 80% | % | % | % | | | |
| South Platte River | 130% | 113% | 111% | 100% | % | % | % | | | |

| Forecasted CY 2007 Missouri River Basin Annual Runoff in MAF | | | | | | | | | | |
|--|------|------|------|------|-----|-----|-----|--|--|--|
| Location | Jan | Feb | Mar | Apr | May | Jun | Jul | | | |
| Above Sioux City, Iowa. | 20.0 | 19.3 | 20.1 | 20.5 | | | | | | |
| Percent of Normal 25.2 MAF | 79% | 77% | 80% | 82% | % | % | % | | | |

SNOTEL Mountain snowpack station data is provided by the National Resource Conservation Service. Normally by April 15, 100% of the peak accumulation has occurred. The January through June 2006 actual runoff above Sioux City was 13.2 MAF, 81% of normal. The 2006 Calendar Year runoff above Sioux City was 19.0 MAF, 75% of normal. The forecasted runoff for 2007 is 20.5 MAF, 82% of normal. As stated earlier, the Missouri River basin endured its sixth consecutive year of drought in 2006. The March 27, 2007 drought monitor map (http://drought.unl.edu/dm/monitor.html) indicates that about half of the upper Missorui River basin (above Gavins Point Dam) is currently

in a moderate to extreme intensity. The other half is considered abnormally dry. Only small portions of the upper basin are considered normal. The most western quarter of Nebraska as well as about half of Wyoming are in extreme drought intensity conditions. However, this map does not account for the late March snowstorms that affected most parts of Wyoming and central Montana.

The table above labeled CY 2007 Mountain Snowpack, gives information in percent of average for the two significant snowpack accumulation reaches of Fort Peck and Fort Peck to Garrison. The snow melts during the May through July timeframe and provides significant main stem inflow which is stored to prevent downstream flooding and later used to meet main stem authorized project purposes. Even knowing the amount of snow at the first of each month for selected mountain snowpack areas results in considerable runoff variability because the weather conditions during the melt period greatly influences the runoff yield. The total percent of normal accumulation are shown for the first of each month through May. For the period of May through July the percentages shown are a percent of the peak accumulation for the year to indicate the remaining snow to melt in the mountains.

Mainstem Reservoir Information

Based on current information, the upper three reservoirs will remain extremely low during 2007. The Omaha District will continue to address the issues of reservoir access, cultural resource monitoring and protection, noxious weed control, and water supply to the extent allowable by funding and authorization.

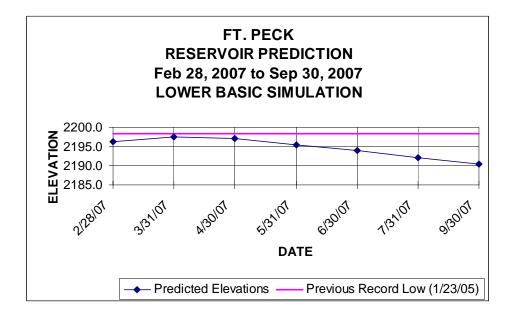
Fort Peck, Montana

Reservoir Elevation Overview

| | | 30-Day | 180-Day |
|----------------|--------------|--------------|--------------|
| | Current Lake | Projected | Projected |
| Lake Elevation | Elevation | Elevation | Elevation |
| 03/31/2006 | 03/31/2007 | (04/30/2007) | (09/30/2007) |
| (ft. msl) | (ft. msl) | (ft. msl) | (ft. msl) |
| 2201.5 | 2197.5 | 2197.0 | 2190.4 |

Comments:

- 1. Current reservoir elevation is 36.5-feet below the top of conservation pool (elevation 2234.0 ft. msl).
- 2. Projections provided are based upon the Lower Basic Simulation prepared by the Reservoir Control Center.
- 3. Current elevation 4.0-feet lower than 03/31/06 (2201.5) and trending downward.
- 4. The reservoir is setting a new record low elevation almost daily. The previous low was 2198.25 on January 23, 2005. The elevation of 2196.2 is the current record low.



Water Intake Overview

| Intake | Comments | | | | |
|-----------------------|----------------------------|--|--|--|--|
| | No issues. | | | | |
| Hell Creek State Park | Well completed 22 NOV 2004 | | | | |

Access Overview

- 1. 15 ramps usable; 3 ramps unusable. No permanent ramps operational.
- 2. \$250,000 programmed for boat ramp extensions/maintenance in FY 2007.
- 3. Once the reservoir is free of ice, the boat ramps will be extended to provide the most optimum access possible given the current reservoir conditions.

| | | | Тор | |
|-------------------------|----------|---------------------------------|-----------|--------------------|
| Boat Ramp | Status | Bottom Elevation | Elevation | Managing Agency |
| Fort Peck Marina | USABLE | 2197 | 2250 | COE/Concessionaire |
| Duck Creek | USABLE | 2197 | 2250 | COE/MTFW&P |
| Flat Lake | USABLE | 2197 | 2250 | COE |
| Rock Creek (North Fork) | USABLE | 2197 | 2250 | COE/MTFW&P |
| Rock Creek Marina | USABLE | 2197 | 2250 | Concessionaire |
| Nelson Creek | UNUSABLE | 2220 (Cannot Be Extended) | 2250 | COE |
| Hell Creek | USABLE | 2197 | 2250 | COE/MTFW&P |
| Devils Creek | USABLE | 2197 | 2250 | COE |
| Crooked Creek | UNUSABLE | 2223 (Cannot Be Extended) | 2250 | Concessionaire |
| Fourchette | UNUSABLE | 2204 (Cannot Be Extended) | 2250 | COE |
| Bone Trail | USABLE | 2197 | 2250 | COE |
| Pines | USABLE | 2197 | 2250 | COE |
| James Kipp | USABLE | Missouri River, Upstream of Dam | | BLM |
| Floodplain | USABLE | Missouri River, Below Dam | | COE |
| Roundhouse Point | USABLE | Missouri River, Below Dam | | COE |
| Nelson Dredge | USABLE | Missouri River, Below Dam | | COE |
| Trout Pond | USABLE | Missouri River, Below Dam | | MTFW&P |
| Rock Creek West | USABLE | Missouri River, Upstream of Dam | | USFWS |

Noxious Weeds Overview

- 1. As the reservoir elevation dropped, the noxious weeds spread along the shoreline.
- 2. Main concern is Saltcedar, which thrives along the shoreline as the reservoir elevation declines.
- 3. \$200,000 programmed for noxious weed control in FY 2007.

Cultural Resources Overview

1. No issues to date.

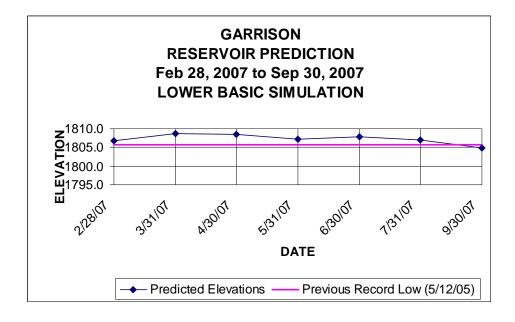
Garrison, North Dakota

Reservoir Elevation Overview

| | | 30-Day | 180-Day |
|----------------|--------------|--------------|--------------|
| | Current Lake | Projected | Projected |
| Lake Elevation | Elevation | Elevation | Elevation |
| 03/31/2006 | 03/31/2007 | (04/30/2007) | (09/30/2007) |
| (ft. msl) | (ft. msl) | (ft. msl) | (ft. msl) |
| 1810.7 | 1808.7 | 1808.4 | 1804.9 |

Comments:

- 1. Current reservoir elevation is 28.8-feet below the top of conservation pool (elevation 1837.5 ft. msl).
- 2. Projections provided are based upon the Lower Basic Simulation prepared by the Reservoir Control Center.
- 3. Current reservoir elevation is 2.0-feet lower than elevation on 03/31/06 (1810.7).
- 4. Record low for the reservoir is 1805.76 on May 12, 2005.



Water Intake Overview

| | | Current Reservoir | Top of Screen | Operational Concern | Shutde Ele | | Population | Contingency Plan? | Resp. |
|-------------|-------------|----------------------|------------------|------------------------|---------------|--------|------------|-------------------|---------|
| Intake | Status | Elev. | Elev. | Elev. | Summer | Winter | Supported | (Y/N) | Agency |
| Whiteshield | Operational | 1808.7 | 1787 | 1805 | 1794 | 1796 | 720 | N | TAT/BOR |

Comments:

- 1. Top of Screen Elevation taken from survey completed by the Corps in 2005. The intake was extended and lowered 2-feet since the Corps' survey in 2005.
- 2. Operation concern level corresponds to previous record lows where erosion of newly exposed shoreline may cause problems with erosion at the intake.

Future Plans:

- 1. Contract awarded to Northern Improvement to install a new intake. The new intake will be installed at elevation 1763.0±, lowering the intake 24-feet below its current elevation. The project is scheduled to be completed by July of 2007.
- 2. Project design includes a 950-feet bored pipeline into the lake at elevation 1763. The line will be 24" polyethylene pipe. New SCADA control and pumps are included in the project design. The Title of the project is: "FBRW 2006A; East Segment Intake Replacement".
- 3. FBRW has the option of discontinuing existing system or keeping the system in operation as a backup.

| | | Current Reservoir | Top of | Operational Concern | Elev. | | Population | Contingency Plan? | Resp. |
|-------------|-------------|----------------------|-----------------|------------------------|--------|--------|------------|----------------------|---------|
| Intake | Status | Elev. | Screen Elev. | Elev. | Summer | Winter | Supported | (Y/N) | Agency |
| Twin Buttes | Operational | 1808.7 | 1784.4 | 1805 | 1788 | 1790 | 425 | N | TAT/BOR |

- 1. Top of Screen Elevation taken from survey completed by the Corps in 2005.
- 2. Erosion due to low reservoir levels have caused increased sediment in the intake piping. This has increased maintenance cost to remove the sediment and increased the cost of treating the water.

Future Plans:

- 1. A contract to install a new intake at elevation 1741.0, 41 feet below the current screen elevation was awarded to Northern Improvement. Work was started in October 2006 and will be completed by July 2007.
- 2. Project design includes an 800-feet bored pipeline into the lake at elevation 1741. The line will be a 24" polyethylene pipe. New SCADA control and pumps are included in the design. The title of the project is: "FBRW 2006 C; South Segment Intake Replacement".
- 3. FBRW has the option of discontinuing existing system or keeping the system in operation as a backup.

| | | Current | Top of | Operational | Shutdown Elev. | | | Contingency | |
|----------|-------------|-----------|--------|-------------|-------------------|--------|------------|-------------|---------|
| | | Reservoir | Screen | Concern | | | Population | Plan? | Resp. |
| Intake | Status | Elev. | Elev. | Elev. | Summer | Winter | Supported | (Y/N) | Agency |
| Mandaree | Operational | 1808.7 | 1786 | 1789.0 | 1789 | 1794 | 780 | N | TAT/BOR |

Comments:

1. The new intake screen is at elevation 1786.

| | | Current | Top of | Operational | Shutdown Elev. | | | Contingency | |
|------------|-------------|-----------|--------|-------------|-------------------|--------|------------|-------------|---------|
| | | Reservoir | Screen | Concern | | | Population | Plan? | Resp. |
| Intake | Status | Elev. | Elev. | Elev. | Summer | Winter | Supported | (Y/N) | Agency |
| Four Bears | Operational | 1808.7 | 1789.9 | 1800.0 | 1792 | 1794 | 900 | N | TAT/BOR |

- 1. Top of Screen Elevation taken from survey completed by the Corps in 2005.
- 2. Erosion due to low reservoir levels have caused increased sediment in the intake piping. This has increased maintenance cost to remove the sediment and increased the cost of treating the water.

Future Plans:

- 1. A contract to install a new intake at elevation 1785.0 was awarded to Northern Improvement. Work was stated in October 2006 and will be completed by July 2007.
- 2. The project design includes 1,160-feet of 24-inch polyethylene pipe bored into the reservoir. The design includes SCADA control and new pumps.
- 3. FBRW has the option of discontinuing existing system or keeping the system in operation as a backup.

| | | Current | Top of | Operational | Shutdown Elev. | | | Contingency | |
|----------|----------|-----------|---------|-------------|-------------------|--------|------------|-------------|----------|
| | | Reservoir | Screen | Concern | | | Population | Plan? | Resp. |
| Intake | Status | Elev. | Elev. | Elev. | Summer | Winter | Supported | (Y/N) | Agency |
| Parshall | Operable | 1808.7 | 1803.6* | 1806.6 | 1797.5 | 1801.5 | 1000 | N | Parshall |

- 1. Top of Screen Elevation taken from survey completed by the Corps in 2005.
- 2. The City had a telescoping riser attached to the intake by 30 July 2005. The riser extended the intake to within 3- to 4-feet of the water's surface.
- 3. Require at least 3 feet of water over the intake for proper operation.
- 4. Water quality at current level is good following water treatment.
- 5. Technical Assistance Report was completed by the Corps of Engineers for Parshall in December 2006.
- 6. A backup well is available for use should the intake fail. The well has been used successfully in the past.

Future Plans:

1. Discussions have been held between Parshall and New Town regarding future water supply. No formal decisions have been reached. Parshall is a proposed supplier for the Rural Water System.

^{*}Screen is raised or lowered according to reservoir elevations.

| | | | | | Shutde | own | | | |
|-----------|-------------|-----------|--------|-------------|--------|--------|------------|-------------|-----------|
| | | Current | Top of | Operational | Ele | v. | | Contingency | |
| | | Reservoir | Screen | Concern | | | Population | Plan? | Resp. |
| Intake | Status | Elev. | Elev. | Elev. | Summer | Winter | Supported | (Y/N) | Agency |
| Pick City | Operational | 1808.7 | 1795 | 1800 | 1798 | 1800 | 200 | | Pick City |

Comments:

- 1. Top of Screen Elevation taken from survey completed by the Corps in 2005.
- 2. At least 5-feet of water is necessary to operate this intake. If continued usage is planned, the intake will have to be lowered.

Future Plans:

1. Rural water is available to the City, however, they have chosen to continue using their intake until the water no longer meets State Health Standards or work is required on their intake.

| | | Current | Top of | Operational | Shutde Ele | | | Contingency | |
|----------|-------------|-----------|--------|-------------|---------------|--------|------------|-------------|----------|
| | | Reservoir | Screen | Concern | | | Population | Plan? | Resp. |
| Intake | Status | Elev. | Elev. | Elev. | Summer | Winter | Supported | (Y/N) | Agency |
| Garrison | Operational | 1808.7 | 1787.2 | 1805 | 1792 | 1792 | 1830 | N | Garrison |

- 1. Top of Screen Elevation taken from survey completed by the Corps in 2005.
- 2. A regulatory permit was currently issued for the reinstallation of existing 950-feet of 8" poly pipe and installation of new 250-feet of 8" poly pipe to extend the intake system.

| | | Current | Top of | Operational | Shutde Ele | | | Contingency | |
|-------------|-------------|-----------|--------|-------------|---------------|--------|------------|-------------|-------------|
| | | Reservoir | Screen | Concern | | | Population | Plan? | Resp. |
| Intake | Status | Elev. | Elev. | Elev. | Summer | Winter | Supported | (Y/N) | Agency |
| SW Pipeline | Operational | 1808.7 | 1779.0 | 1782 | 1776 | | 34,000 | N | SW Pipeline |

Comments:

1. This system provides water for the City of Dickinson, Antelope Valley Power Plant, Coal Gasification Plant, and the Southwest Water Authority.

Access Overview

- 1. Ft. Stevenson State Park Marina design is completed. However, no federal funding is available for construction.
- 2. \$250,000 programmed for boat ramp extensions/maintenance.

The following table provides the updated boat ramp status on Lake Sakakawea.

Updated 4/5/2007 Reservoir Elevation 03/31/07 – 1808.7

| Location | Туре | Top Elevation | Bottom Elevation | Comments | Managing Agency | Contact Person | Phone |
|---|-------------------------------|------------------|---------------------|---|-------------------------------|-----------------------|----------|
| Beaver Bay (low-water-COE) | poured concrete | 1829 | 1808 | Unusable | Corps of Engineers | Linda Phelps | 654-7411 |
| Beulah Bay | poured concrete | 1852.4 | 1799 | Usable | Beulah Park Board | Bev Sullivan | 873-5852 |
| Camp of the Cross | Slide-in metal sections | 1819 | 1806 | Unusable | Lutheran Bible Camp | Larry Crowder | 337-2246 |
| Charging Eagle Bay (1st low water) | poured concrete | 1829.2 | 1810.6 | Unusable (Can be extended) | Three Affiliated Tribes | Jim Mossett | 880-1203 |
| Dakota Waters Resort (low-water) | poured concrete, planks | 1853.4 | 1805 | Unusable (Need to dredge channel) | Beulah Park Board | Kelvin Heinsen | 873-5800 |
| Deepwater Creek (2nd low water) | concrete planks & metal | 1820 | 1805.5 | Unusable (Can be extended to 1796) | Corps of Engineers | Linda Phelps | 654-7411 |
| Deepwater Creek (1st low water) | poured concrete | 1838.5 | 1809 | Unusable | Corps of Engineers | Linda Phelps | 654-7411 |
| Douglas Creek (low water) | poured concrete, planks | 1831 | 1801 | Usable (Can be extended to 1790) | Corps of Engineers | Linda Phelps | 654-7411 |
| Fort Stevenson State Park (low water) | poured concrete | 1821.8 | 1790 | Usable | ND Parks & Rec | Dick Messerly | 337-5576 |
| Four Bears Park (south low water) | concrete planks | 1820.7 | 1805.5 | Unusable (Can be extended) | Three Affiliated Tribes | Alan Chase | 627-4018 |
| Garrison Creek Cabin Site | poured concrete | 1857 | 1802 | Usable | Garrison Cabin Assc. | Percy Radke | 337-2247 |
| Government Bay (low water) | slide-in metal sections | 1815 | 1803 | Usable (Can be extended to 1793) | Corps of Engineers | Linda Phelps | 654-7411 |
| Government Bay (main ramp) | poured concrete | 1857 | 1810 | Unusable | Corps of Engineers | Linda Phelps | 654-7411 |
| Hazen Bay (2nd low water) | poured concrete | 1830.6 | 1808 | Unusable (Can be extended to 1790) | Hazen Park Board | Mannie Hendrickson | 748-5958 |
| Indian Hills (2nd low water) | concrete planks | 1817.6 | 1807 | Unusable | Parks & Rec/Tribes | Kelly Sorge | 743-4122 |
| Indian Hills (3 rd low water) | Will need to reinstall | 1810 | 1795 | | | | |
| McKenzie Bay (east ramp) | poured concrete | 1850.9 | 1796 | Usable | McKenzie Marine Club | Rhonda Logan | 579-3366 |

| Location | Туре | Top Elevation | Bottom Elevation | Comments | Managing Agency | Contact Person | Phone |
|--|----------------------------------|------------------|---------------------|---|-----------------------------------|-------------------|----------|
| New Town (low water ramp) | slide-in metal sections | 1819.0 | 1807.5 | Unusable | New Town Park Board | Dusty Rhodes | 627-3900 |
| Parshall Bay (2nd low-water) | slide-in metal sections | 1817.8 | 1808.5 | Unusable | Mountrail County Park Board | Clarence Weltz | 627-3377 |
| Pouch Point (3rd low-water) | slide-in metal sections | 1819 | 1807 | Unusable (can be extended to 1798) | Three Affiliated Tribes | Paul Danks | 627-3627 |
| Pouch Point (2nd low-water) | poured concrete | 1834.8 | 1813 | Unusable | Three Affiliated Tribes | Paul Danks | 627-3627 |
| Reunion Bay (2nd low water) | concrete planks | 1826.6 | 1808 | Unusable (can be extended to 1799) | Corps of Engineers | Linda Phelps | 654-7411 |
| Sakakawea State Park (main) | poured concrete | 1850 | 1800 | Usable | ND Parks & Rec | John Tunge | 487-3315 |
| Sakakawea State Park (low water) | will need to finish ramp | 1807 | 1790 | | | | |
| Sanish Bay (Aftem) (low water) | poured concrete | 1830.8 | 1807.4 | Unusable (can be extended to 1798) | Aftem Lake Development | Gerald Aftem | 852-2779 |
| Skunk Creek Recreation Area (main) | poured concrete | 1840 | 1806.5 | Unusable (can be extended to 1797) | Three Affiliated Tribes | Ken Danks | 290-2841 |
| Sportsmen's Centennial Park | poured concrete | 1831.6 | 1808.5 | Unusable | McLean County | Les Korgel | 462-8541 |
| Sportsmen's Centennial Park (Proposed) | slide-in metal sections | 1810 | 1795 | | | | |
| Steinke Bay | poured concrete | 1833.1 | 1813.4 | Unusable | North Dakota Game & Fish | Bob Frohlich | 328-6346 |
| Van Hook (Gull Island south low- water) | metal bridge deck sections | 1817.8 | 1805 | Unusable (can be extended to 1795) | Mountrail County Park Board | Clarence Weltz | 627-3377 |
| Van Hook (west low water ramps) | poured concrete | 1821.2 | 1808 | Unusable | Mountrail County Park Board | Clarence Weltz | 627-3377 |
| White Earth Bay (main) | poured concrete | 1850.9 | 1801 | Usable | Mountrail County Park Board | Greg Gunderson | 755-3277 |
| Wolf Creek Recreation Area (1st low water) | poured concrete | 1833.8 | 1802.5 | Usable | Corps of Engineers | Linda Phelps | 654-7411 |

Noxious Weeds Overview

- 1. Project personnel are continuing efforts to combat noxious weeds.
- 2. \$440,000 programmed for noxious weed control in FY 2007.

Cultural Resources Overview

- 1. Corps and Tribal personnel continue to monitor the shoreline for exposure of cultural site and opportunities for protection of sites.
- 2. Stabilization efforts are underway at two sites on Lake Sakakawea. An additional stabilization is possible depending on funds availability.
- 3. A sizeable inventory will be conducted on part of the Lake during this fiscal year. Results will assist in accurately identifying sites on and away from the shoreline.

Other Areas of Interest/Concern

- 1. Garrison National Fish Hatchery Three issues exist and are of concern to the State of North Dakota and the U.S. Fish and Wildlife Service.
 - a. Addition of a fifth boiler and necessary power for operation.
 - b. Ability to fill 40 rearing ponds.
 - c. Adequacy of the existing 20-inch water supply line from the penstocks.
- 2. Fact sheets for the hatchery issues exist. OP-TM is investigating a design for additional power requirements to the hatchery. An MOU may need to be set up to address future operating needs and requirements.
- 3. Garrison Cold Water Fishery Based on data collected in the summer of 2006, the effort to block the lower portions of the trash racks on the intakes for Units 2 & 3 at the Garrison Power Plant, as well as revisions implemented to the peaking patterns, proved beneficial in prolonging the preservation of cold water habitat in the reservoir (Sakakawea). There is now a current proposal from the project to continue a similar effort throughout the summer of 2007. Additionally, it is proposed that the Corps pursue blocking the lower portion of the intake for Unit 1. The intent would be to perform an underwater inspection of the existing plywood barriers, utilizing a remote operated camera, then pulling one of the trash racks up to perform a physical inspection to ensure integrity of the plywood, j-bolts, etc. If these are still in good shape, we'd install the same type of barrier on Unit 1.
- 4. Due to the drought and resulting decline in the Garrison reservoir pool level, the elevation differences between Lake Audubon and Lake Sakakawea have created loading conditions on the Snake Creek embankment that, although considered in the original design, had not previously been encountered. In response to this, the Omaha District installed additional instrumentation and conducted other inspections to more fully define foundation conditions. Instrumentation installed in September 2006, along newly-exposed shoreline along the Snake Creek embankment, indicated higher than anticipated foundation pressures.

This data indicated the potential for adverse foundation underseepage conditions to develop during large differences in pool levels between Lake Audubon and Garrison Reservoir. To reduce the potential that adverse conditions may develop at the Snake Creek embankment, while additional investigation and evaluation was conducted, the Corps of Engineers, in consultation with stakeholders, limited the difference in pool elevations between Lake Audubon and Garrison Reservoir to 36.5 feet. Under this restriction, the Snake Creek embankment was considered stable and there were no indications of distress.

To implement this pool difference restriction, a 2-foot drawdown of Lake Audubon was completed on December 1, 2006 to elevation 1843.0 feet above mean sea level (msl). To maintain the 36.5 foot maximum difference restriction, Garrison Reservoir will be held above 1806.5 until ice fishing ends on Lake Audubon. Then, based on the results of data collected from the additional instruments being installed, a future operating plan for Lake Audubon will be developed in coordination with the Bureau of Reclamation, U.S. Fish and Wildlife Service, the North Dakota Game and Fish Department, the North Dakota State Water Commission, and the Garrison Diversion Conservancy District.

In January 2007, the Corps of Engineers awarded a contract to install pressure monitoring instruments through the ice on Garrison Reservoir into the critical area near the downstream toe of the Snake Creek Embankment. These instruments will provide additional data on foundation underseepage conditions that will be used to determine if continued pool restrictions are required and/or if other mitigation measures are necessary. In February 2007, the contract was modified to include the installation of 4 pressure relief wells as a precautionary measure to reduce uplift pressures in the critical area downstream of the embankment.

UPDATE: Based on review of the data gathered from the new instrumentation, the elevation restriction was lifted. Also, water was pumped from Lake Sakakawea into Lake Audubon to bring the lake back to it's historic normal elevation.

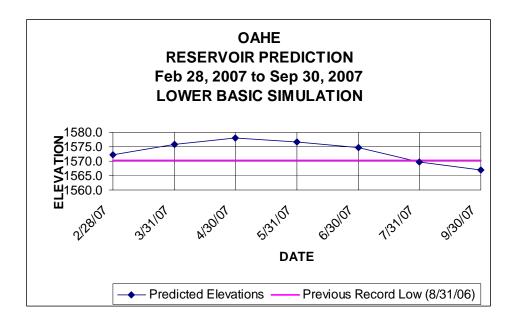
Oahe, South Dakota

Reservoir Elevation Overview

| | | 30-Day | 180-Day |
|----------------|--------------|--------------|--------------|
| | Current Lake | Projected | Projected |
| Lake Elevation | Elevation | Elevation | Elevation |
| 03/31/2006 | 03/31/2007 | (04/30/2007) | (09/30/2007) |
| (ft. msl) | (ft. msl) | (ft. msl) | (ft. msl) |
| 1576.7 | 1575.8 | 1578.1 | 1567.0 |

Comments:

- 1. Current reservoir elevation is 31.7-feet below the top of conservation pool (elevation 1607.5 ft. msl).
- 2. Projections provided are based upon the Lower Basic Simulation prepared by the Reservoir Control Center.
- 3. Current reservoir elevation is 0.9-feet lower than 03/31/06 (1576.7).
- 4. Record low for the reservoir is 1570.17 on August 31, 2006.



Water Intake Overview

| | | Current | Top of | Operational | Shutde Ele | | | Contingency | |
|-----------|-------------|-----------|--------|-------------|---------------|---------|------------|-------------|----------|
| | | Reservoir | Screen | Concern | | | Population | Plan? | Resp. |
| Intake | Status | Elev. | Elev. | Elev. | Summer | Winter | Supported | (Y/N) | Agency |
| Ft. Yates | Operational | 1575.8 | 1571.2 | 1573 | 1572.2* | 1575.2* | 3,400 | Y | SRST/BOR |

Comments:

- 1. Top of Screen Elevation taken from survey completed by the Corps in 2005.
- 2. A backup well has been drilled and tested.
- 3. New well and plumbing is installed at Fort Yates and can be used as a backup water source.

Future Plans:

- 1. The intake at Fort Yates remains in a river condition and may continue to have sedimentation problems as long as Oahe remains below elevation 1580. Sediment levels in the sump are measured weekly and the river channel is monitored.
- 2. Contingency plans are in place and have been exercised.

| | | Current | Top of | Operational | Shutdo Elev | | | Contingency | |
|---------|-------------|-----------|--------|-------------|----------------|--------|------------|-------------|----------|
| | | Reservoir | Screen | Concern | | | Population | Plan? | Resp. |
| Intake | Status | Elev. | Elev. | Elev. | Summer | Winter | Supported | (Y/N) | Agency |
| Wakpala | Operational | 1575.8 | 1563 | 1563 | 1566 | 1569 | >500 | N | SRST/BOR |

Comments:

- 1. Top of Screen Elevation taken from survey completed by the Corps in 2005, a new low profile screen was installed lowering the top of the screen elevation to 1563, this elevation was confirmed in February 2007.
- 2. Contingency plans are being drafted to respond to an intake failure. Initial response to an intake failure at Wakpala would be hauling water from the city of Mobridge to the treatment plant to be distributed using the existing transmission lines.
- 3. Recent forecasts indicate that the reservoir could reach elevation 1563.1 in August 2007. In response to this, additional options are being considered to supply water to the Wakpala Treatment Plant. At this time, alternative surface water, groundwater, and water hauling options are all being investigated. Also, the costs associated with each of these options is also being estimated.

^{*}Intake is in riverine conditions and flow to the intake may be influenced by releases from Garrison reservoir.

| | | Current | Top of | Operational | Shutd Ele | | | Contingency | |
|-----------|-------------|-----------|--------|-------------|--------------|--------|------------|-------------|--------|
| | | Reservoir | Screen | Concern | 210 | l | Population | Plan? | Resp. |
| Intake | Status | Elev. | Elev. | Elev. | Summer | Winter | Supported | (Y/N) | Agency |
| Mní Wasté | Operational | 1575.8 | 1555.7 | 1580 | 1561.9 | 1560.4 | 14,000 | Y(DRAFT) | CRST |

- 1. Top of Screen Elevation taken from survey completed by the Corps in 2005.
- 2. Construction of a temporary intake approximately 16 miles from the existing intake is underway and is proceeding well. The construction project is a collaborative effort between the Tribe, the State, the Corps and many other entities.

Access Overview

- 1. The State of South Dakota is responsible for maintaining recreational areas and access to the reservoir in South Dakota. The Oahe Project maintains the access in North Dakota.
- 2. Ramps on Oahe Project in North Dakota:

| AREA | Status |
|----------------------|----------|
| Sibley Park | Usable |
| Little Heart Bottoms | Usable |
| Kimball (Desert) | Usable |
| Graner's Bottoms | Usable |
| Maclean Bottoms | Usable |
| Hazelton | Usable |
| Ft. Rice | Usable |
| North Beaver Bay | Usable |
| Walker Bottoms | Usable |
| Jennerville (Rivery) | Usable |
| Fort Yates | Unusable |
| Cattail Bay | Unusable |
| Langeliers Bay | Unusable |
| Beaver Creek | Unusable |
| State Line | Unusable |

 $\underline{http://gf.nd.gov/fishing/mo-riv-system-boatramps-status.html}.$

Noxious Weeds Overview

1. \$400,000 programmed for noxious weed control in FY 2007.

Cultural Resources Overview

- 1. Corps and Tribal personnel continue to monitor the shoreline for exposure of cultural site and opportunities for protection of sites.
- 2. Stabilization efforts are underway at two sites on Lake Oahe. One stabilization is already completed while the other is scheduled to be completed by the end of summer.

Mainstem Reservoir Information, Weekly Elevation Comparison

| 5 Mar 2007 | Project In | formation | Rese | rvoir Elevati | on | Reservoir Storage | | | |
|------------------|---------------|---------------|-----------|---------------|--------|-------------------|-----------|----------|--|
| | | | | | | Current | Previous | | |
| | | | Current | Previous | | Storage | Storage | | |
| | Multi-Purpose | Flood Control | Elevation | Elevation | | (MAC-FT) | (MAC-FT) | Change | |
| Project | Pool Elev. | Pool Elev. | (3/5/07) | (2/26/07) | Change | (3/5/07) | (2/26/07) | (MAC-FT) | |
| Ft. Peck, MT | 2160 - 2246 | 2246 - 2250 | 2196.2 | 2196.3 | -0.1 | 8.431 | 8.440 | -0.009 | |
| Garrison, ND | 1775 – 1850 | 1850 – 1854 | 1807.0 | 1806.8 | 0.2 | 10.263 | 10.225 | 0.038 | |
| Oahe, SD | 1540 - 1617 | 1617 – 1620 | 1572.4 | 1572.2 | 0.2 | 10.183 | 10.135 | 0.048 | |
| Big Bend, SD | 1415 – 1422 | 1422 – 1423 | 1421.0 | 1420.9 | 0.1 | 1.683 | 1.673 | 0.010 | |
| Ft. Randall, SD | 1320 – 1365 | 1365 – 1375 | 1353.8 | 1352.3 | 1.5 | 3.448 | 3.309 | 0.139 | |
| Gavins Point, SD | 1204.5 - 1208 | 1208 - 1210 | 1206.1 | 1209.1 | -3.0 | 0.359 | 0.442 | -0.083 | |

| 12 Mar 2007 | Project In | formation | Rese | rvoir Elevati | on | Re | eservoir Stora | ige |
|------------------|---------------|---------------|-----------|---------------|--------|-----------|----------------|----------|
| | | | | | | Current | Previous | |
| | | | Current | Previous | | Storage | Storage | |
| | Multi-Purpose | Flood Control | Elevation | Elevation | | (MAC-FT) | (MAC-FT) | Change |
| Project | Pool Elev. | Pool Elev. | (3/12/07) | (3/5/07) | Change | (3/12/07) | (3/5/07) | (MAC-FT) |
| Ft. Peck, MT | 2160 - 2246 | 2246 - 2250 | 2196.2 | 2196.2 | 0.7 | 8.521 | 8.431 | 0.090 |
| Garrison, ND | 1775 – 1850 | 1850 - 1854 | 1807.2 | 1807.0 | 0.2 | 10.321 | 10.263 | 0.058 |
| Oahe, SD | 1540 - 1617 | 1617 – 1620 | 1572.7 | 1572.4 | 0.3 | 10.282 | 10.183 | 0.099 |
| Big Bend, SD | 1415 – 1422 | 1422 – 1423 | 1421.2 | 1421.0 | 0.2 | 1.691 | 1.683 | 0.008 |
| Ft. Randall, SD | 1320 – 1365 | 1365 – 1375 | 1354.8 | 1353.8 | 1.0 | 3.520 | 3.448 | 0.072 |
| Gavins Point, SD | 1204.5 - 1208 | 1208 - 1210 | 1209.0 | 1206.1 | 2.9 | 0.441 | 0.359 | 0.082 |

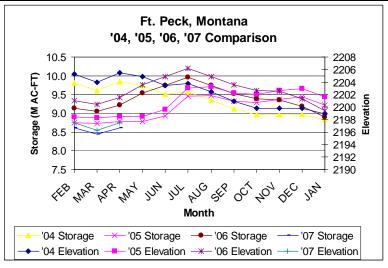
| 19 Mar 2007 | Project Information | | Reser | voir Elevatio | n | Reservoir Storage | | | |
|------------------|---------------------|---------------|-----------|---------------|--------|-------------------|-----------|----------|--|
| | | | | | | Current | Previous | | |
| | | | Current | Previous | | Storage | Storage | | |
| | Multi-Purpose | Flood Control | Elevation | Elevation | | (MAC-FT) | (MAC-FT) | Change | |
| Project | Pool Elev. | Pool Elev. | (3/19/07) | (3/12/07) | Change | (3/19/07) | (3/12/07) | (MAC-FT) | |
| Ft. Peck, MT | 2160 - 2246 | 2246 - 2250 | 2197.3 | 2196.2 | 0.4 | 8.589 | 8.521 | 0.068 | |
| Garrison, ND | 1775 – 1850 | 1850 - 1854 | 1807.9 | 1807.2 | 0.7 | 10.462 | 10.321 | 0.141 | |
| Oahe, SD | 1540 - 1617 | 1617 – 1620 | 1573.7 | 1572.7 | 1.0 | 10.423 | 10.282 | 0.141 | |
| Big Bend, SD | 1415 – 1422 | 1422 – 1423 | 1421.0 | 1421.2 | -0.2 | 1.673 | 1.691 | -0.018 | |
| Ft. Randall, SD | 1320 – 1365 | 1365 – 1375 | 1356.6 | 1354.8 | 1.8 | 3.665 | 3.520 | 0.145 | |
| Gavins Point, SD | 1204.5 - 1208 | 1208 - 1210 | 1207.8 | 1209.0 | -1.2 | 0.405 | 0.441 | -0.036 | |

| 26 Mar 2007 | Project Information | | Reser | voir Elevatio | n | Reservoir Storage | | | |
|------------------|---------------------|---------------|-----------|---------------|--------|-------------------|-----------|----------|--|
| | | | | | | Current | Previous | | |
| | | | Current | Previous | | Storage | Storage | | |
| | Multi-Purpose | Flood Control | Elevation | Elevation | | (MAC-FT) | (MAC-FT) | Change | |
| Project | Pool Elev. | Pool Elev. | (3/26/07) | (3/19/07) | Change | (3/26/07) | (3/19/07) | (MAC-FT) | |
| Ft. Peck, MT | 2160 - 2246 | 2246 - 2250 | 2197.5 | 2197.3 | 0.2 | 8.602 | 8.589 | 0.013 | |
| Garrison, ND | 1775 - 1850 | 1850 - 1854 | 1808.2 | 1807.9 | 0.3 | 10.530 | 10.462 | 0.068 | |
| Oahe, SD | 1540 - 1617 | 1617 – 1620 | 1574.9 | 1573.7 | 1.2 | 10.664 | 10.423 | 0.241 | |
| Big Bend, SD | 1415 – 1422 | 1422 - 1423 | 1420.3 | 1421.0 | -0.7 | 1.635 | 1.673 | -0.038 | |
| Ft. Randall, SD | 1320 – 1365 | 1365 – 1375 | 1356.8 | 1356.6 | 0.2 | 3.686 | 3.665 | 0.021 | |
| Gavins Point, SD | 1204.5 - 1208 | 1208 - 1210 | 1206.4 | 1207.8 | -1.4 | 0.367 | 0.405 | -0.038 | |

Mainstem Reservoir Storage Comparison - Water Years 2004, 2005, 2006, 2007

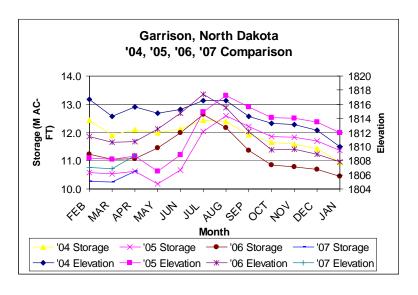
Fort Peck, Montana

| Water Year 2004 (FEB 2004 - JAN 2005) | | Water Year 2005 (FEB 2005 - JAN 2006) | | | ear 2006 - JAN 2007) | Water Year 2007 (FEB 2007 - JAN 2008) | |
|--|----------------------|--|----------------------|-----------|-------------------------|--|----------------------|
| Elevation | Storage (MAC-Ft.) | Elevation | Storage (MAC-Ft.) | Elevation | Storage (MAC-Ft.) | Elevation | Storage (MAC-Ft.) |
| 2204 | 9.603 | 2198.3 | 8.732 | 2200.4 | 9.048 | 2197.5 | 8.618 |
| 2205.5 | 9.837 | 2198.6 | 8.773 | 2201.5 | 9.222 | 2196.3 | 8.440 |
| 2204.9 | 9.740 | 2198.6 | 8.773 | 2203.5 | 9.540 | 2197.5 | 8.619 |
| 2203.4 | 9.507 | 2199.6 | 8.935 | 2205.5 | 9.741 | | |
| 2203.8 | 9.565 | 2203.0 | 9.448 | 2206.3 | 9.962 | | |
| 2202.4 | 9.357 | 2203.2 | 9.472 | 2206.2 | 9.958 | | |
| 2200.9 | 9.121 | 2202.2 | 9.325 | 2204.9 | 9.750 | | |
| 2199.8 | 8.969 | 2202.0 | 9.286 | 2203.6 | 9.525 | | |
| 2199.8 | 8.963 | 2202.6 | 9.371 | 2202.5 | 9.359 | | |
| 2199.8 | 8.961 | 2202.9 | 9.432 | 2202.6 | 9.383 | | |
| 2198.9 | 8.829 | 2201.6 | 9.223 | 2199.4 | 8.913 | | |
| 2198.5 | 8.749 | 2201.0 | 9.134 | 2199.4 | 8.907 | | |



Garrison, ND

| Water Year 2004 (FEB 2004 - JAN 2005) | | Water Year 2005 (FEB 2005 - JAN 2006) | | | Year 2006 5 - JAN 2007) | Water Year 2007 (FEB 2007 - JAN 2008) | | |
|--|----------------------|--|----------------------|-----------|----------------------------|--|----------------------|--|
| Elevation | Storage (MAC-Ft.) | Elevation | Storage (MAC-Ft.) | Elevation | Storage (MAC-Ft.) | Elevation | Storage (MAC-Ft.) | |
| 1814.3 | 11.891 | 1808.2 | 10.538 | 1811.4 | 11.040 | 1807.0 | 10.277 | |
| 1815.6 | 12.197 | 1808.7 | 10.632 | 1810.6 | 11.076 | 1806.9 | 10.241 | |
| 1814.7 | 11.989 | 1806.6 | 10.189 | 1810.7 | 11.460 | 1808.7 | 10.631 | |
| 1815.3 | 12.121 | 1808.8 | 10.665 | 1812.5 | 11.992 | | | |
| 1816.5 | 12.426 | 1814.9 | 12.026 | 1817.3 | 12.628 | | | |
| 1816.5 | 12.401 | 1817.2 | 12.591 | 1817.4 | 12.629 | | | |
| 1814.3 | 11.914 | 1815.8 | 12.216 | 1815.5 | 12.172 | | | |
| 1813.3 | 11.645 | 1814.1 | 11.861 | 1812.1 | 11.372 | | | |
| 1813.1 | 11.589 | 1814.0 | 11.837 | 1809.5 | 10.838 | | | |
| 1812.3 | 11.422 | 1813.5 | 11.707 | 1809.6 | 10.822 | | | |
| 1810.0 | 10.936 | 1812.0 | 11.368 | 1807.8 | 10.441 | | | |
| 1808.4 | 10.574 | 1811.4 | 11.222 | 1807.8 | 10.439 | | | |



Oahe, SD

| Water Year 2004 (FEB 2004 - JAN 2005) | | Water Year 2005 (FEB 2005 - JAN 2006) | | | rear 2006 | Water Year 2007 (FEB 2007 - JAN 2008) | | |
|--|-----------|--|-----------|----------------------------------|-----------|--|-----------|--|
| (FEB 2002 | Storage | (FEB 2003 | Storage | (FEB 2006 - JAN 2007) Storage | | (FEB 2007 | Storage | |
| Elevation | (MAC-Ft.) | Elevation | (MAC-Ft.) | Elevation | (MAC-Ft.) | Elevation | (MAC-Ft.) | |
| 1577.6 | 11.204 | 1575.2 | 10.715 | 1576.8 | 11.037 | 1572.9 | 10.287 | |
| 1577.6 | 11.204 | 1575.2 | 10.715 | 1576.6 | 11.037 | 1572.9 | 10.207 | |
| 1579.2 | 11.504 | 1576.2 | 10.924 | 1577.6 | 11.209 | 1572.3 | 10.151 | |
| 1582.1 | 12.110 | 1574.29 | 10.568 | 1576.7 | 11.024 | 1575.8 | 10.839 | |
| 1581.6 | 12.056 | 1574.82 | 10.608 | 1577.4 | 11.150 | | | |
| 1578.4 | 11.338 | 1576.47 | 10.980 | 1577.0 | 11.088 | | | |
| 1576.8 | 11.045 | 1577.6 | 11.214 | 1575.8 | 10.881 | | | |
| 1574.3 | 10.540 | 1576.38 | 10.958 | 1573.4 | 10.378 | | | |
| 1572.1 | 10.112 | 1572.6 | 10.363 | 1570.3 | 9.807 | | | |
| 1573.2 | 10.316 | 1572.63 | 10.267 | 1571.4 | 9.998 | | | |
| 1574.8 | 10.608 | 1573.9 | 10.501 | 1572.6 | 10.214 | | | |
| 1576 | 10.866 | 1575.6 | 10.814 | 1572.9 | 10.263 | | | |
| 1575.8 | 10.824 | 1575.3 | 10.75 | 1572.8 | 10.260 | | | |

