

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



**US Army Corps
of Engineers
Omaha District**

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Cover Photo: Rock Creek Marina of Ft. Peck Lake

CURRENT CONDITIONS

Similar to the past several months, a review of the drought indicators leads to the conclusion that the drought conditions in the basin continue to improve. Much needed moisture was received throughout the summer and fall and this is reflected in the extent and severity of the drought conditions indicated. Also similar to the past several months, the upper three mainstem reservoirs continue to operate well below their designated conservation pools. Ft. Peck is 33.7 feet below, Garrison is 24.3 feet below, and Oahe is 26.6 feet below the top of conservation pool, respectively. Also, it appears that no municipal intakes on the reservoirs are in jeopardy of running out of water in the foreseeable future.

Precipitation Departures

Precipitation departures from normal during the last 72 months for the United States are shown in Figure 1. The figure indicates that large portions of the basin are moving towards “normal” or even a surplus of moisture.

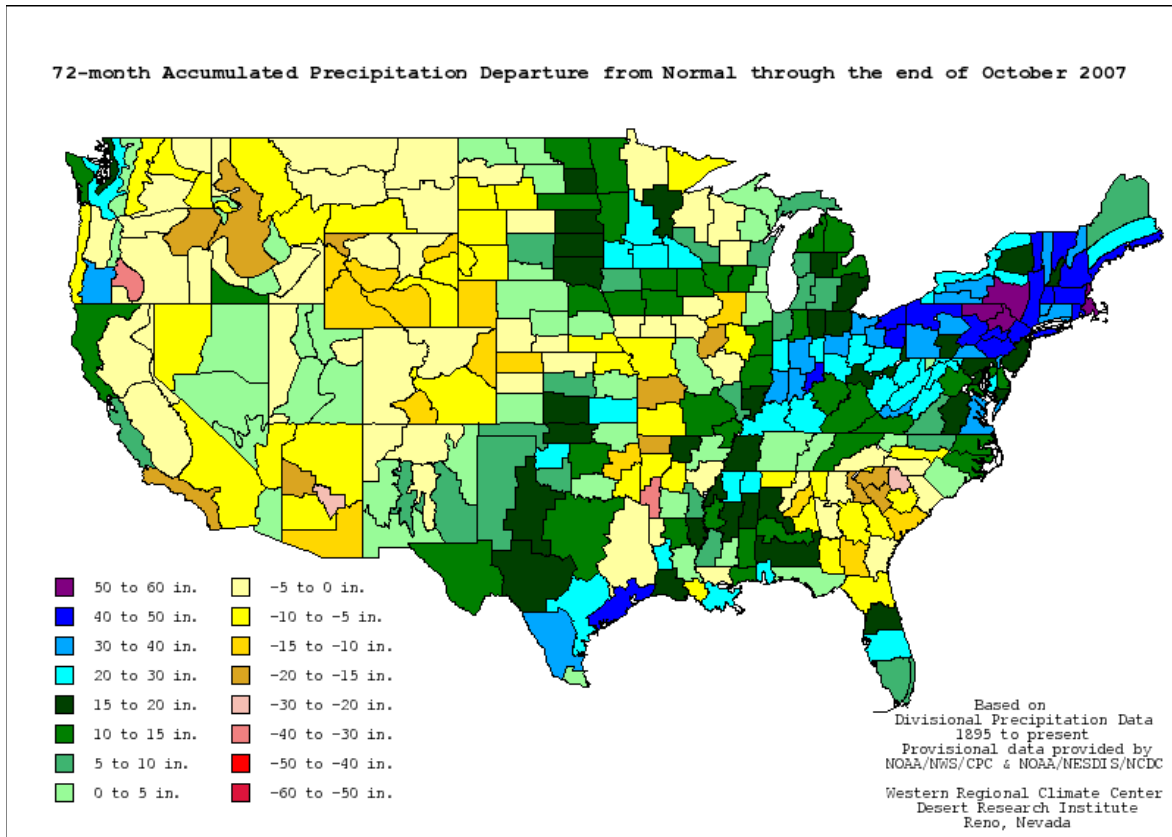


Figure 1 – 72 month Precipitation Departure From Normal

<http://www.wrcc.dri.edu/cgi-bin/spiFmap.pl?dep72>

Figure 2 indicates that the annual precipitation accumulation in the basin is beginning to trend towards normal to surplus precipitation amounts.

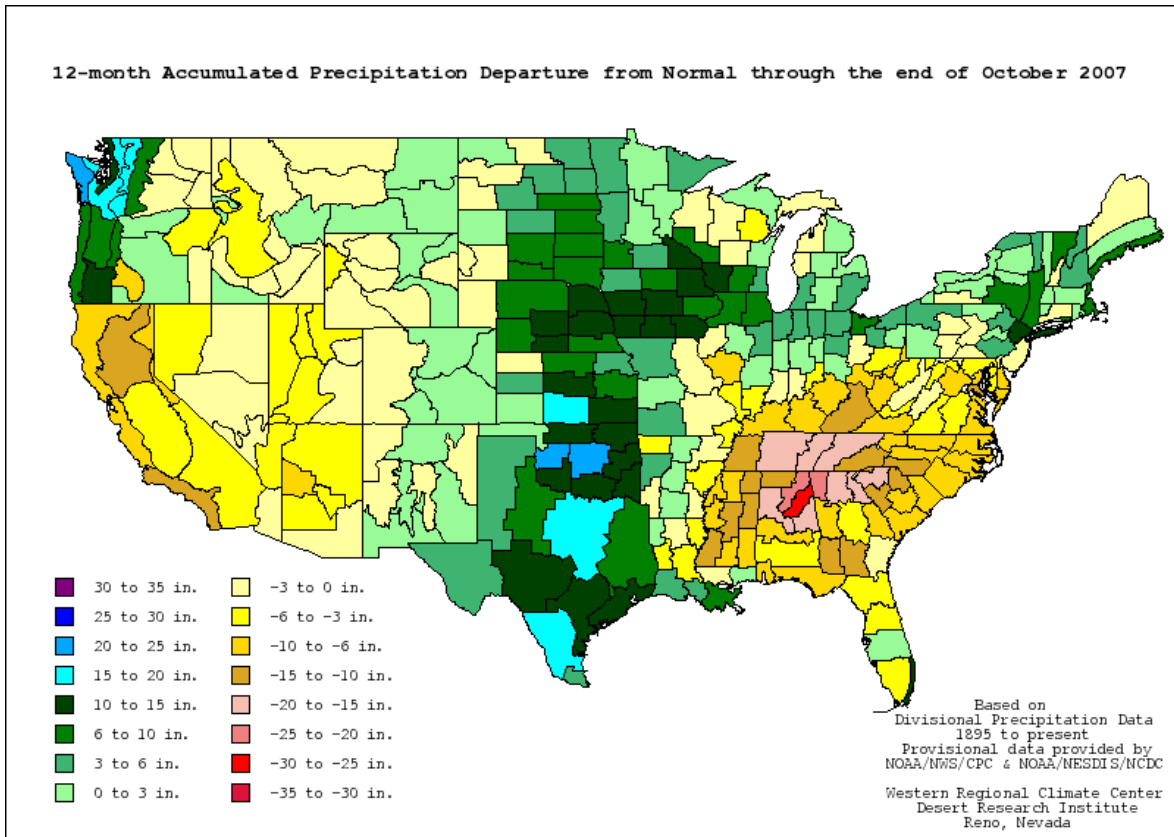


Figure 2 – 12 month Precipitation Departure From Normal
<http://www.wrcc.dri.edu/cgi-bin/spiFmap.pl?dep12>

The three-month period (Figure 3) shows that much of the basin is trending towards “normalcy” or even a surplus of moisture.

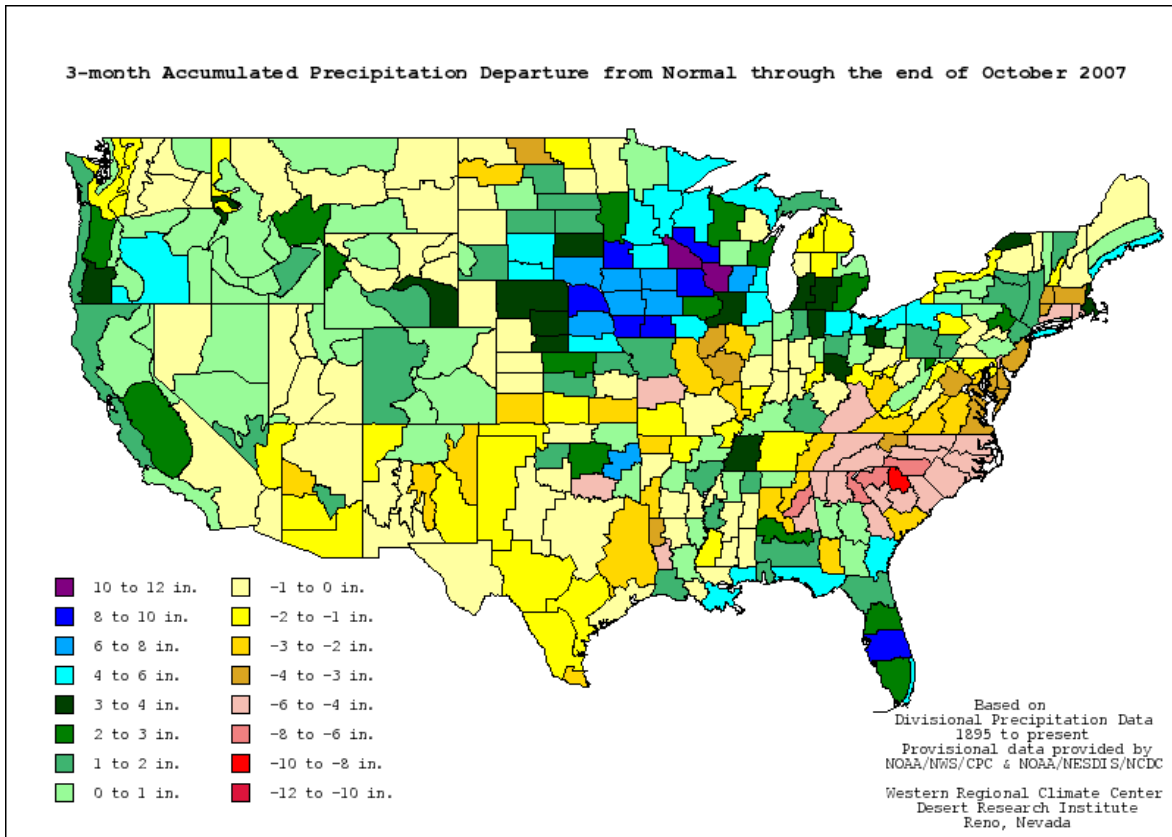


Figure 3 – 3 month Precipitation Departure From Normal
<http://www.wrcc.dri.edu/cgi-bin/spiFmap.pl?dep03>

For the month of October, generally, the basin received nearly average rainfall, which is indicated in the following figure (Figure 4).

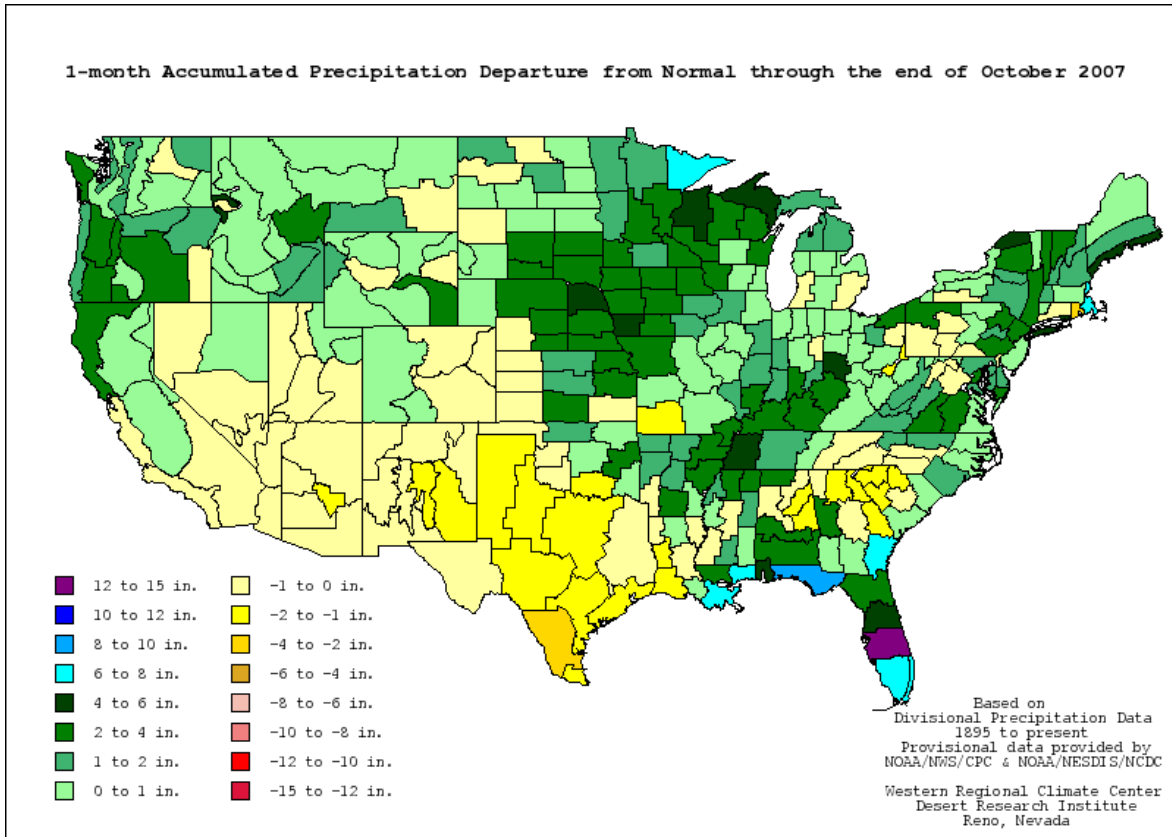


Figure 4 – 1 month Precipitation Departure From Normal
<http://www.wrcc.dri.edu/cgi-bin/spiFm8yap.pl?dep01>

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 large portions of the basin is receiving near normal or even a surplus of short-term moisture.

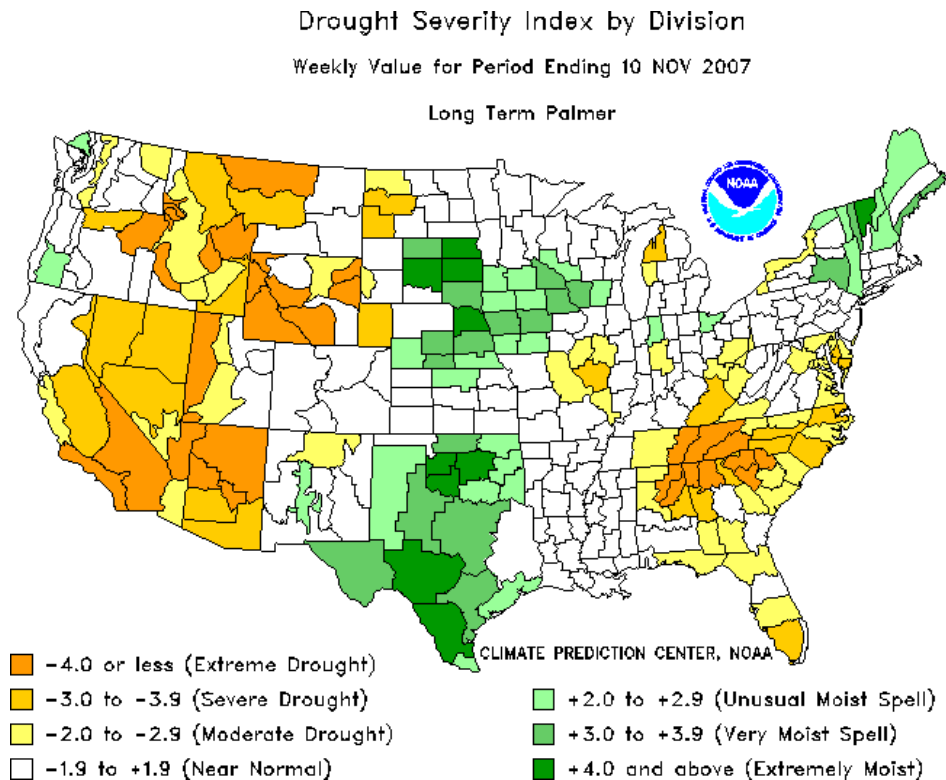


Figure 5 – Long-Term Palmer Drought Indicator Ending 10 November 2007

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).

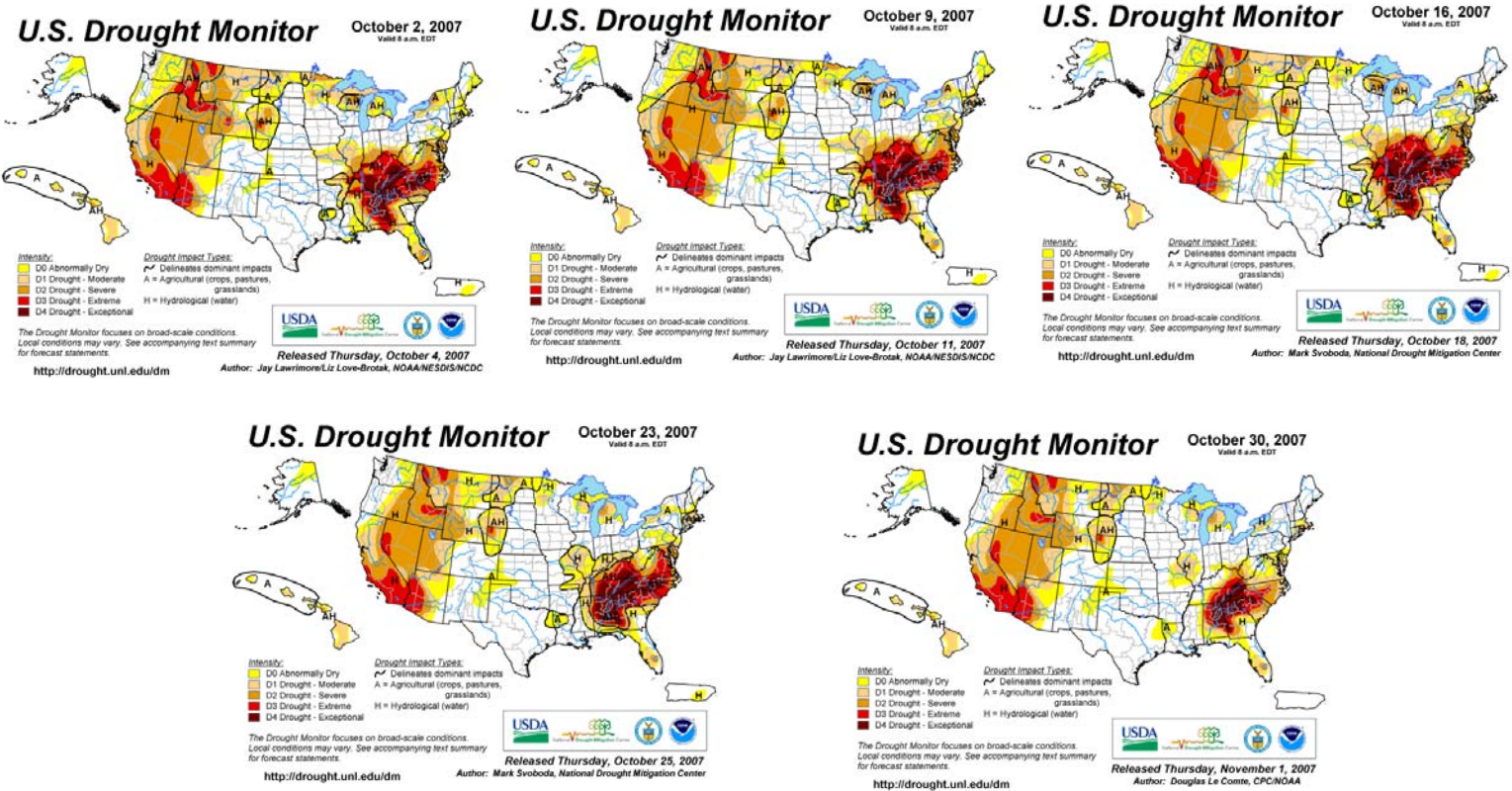


Figure 6 – U.S. Drought Monitor – October 2, 2007 through October 30, 2007

<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.

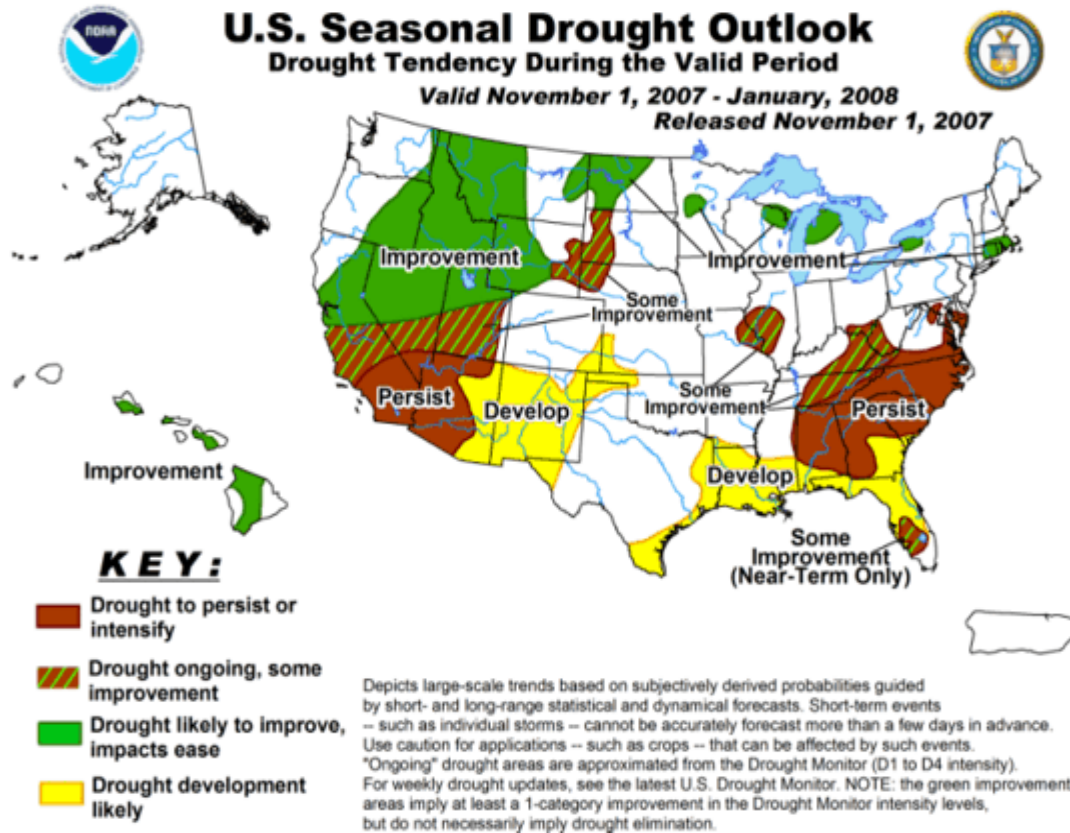


Figure 7 – Three-Month Seasonal Drought Outlook through January 2008

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.

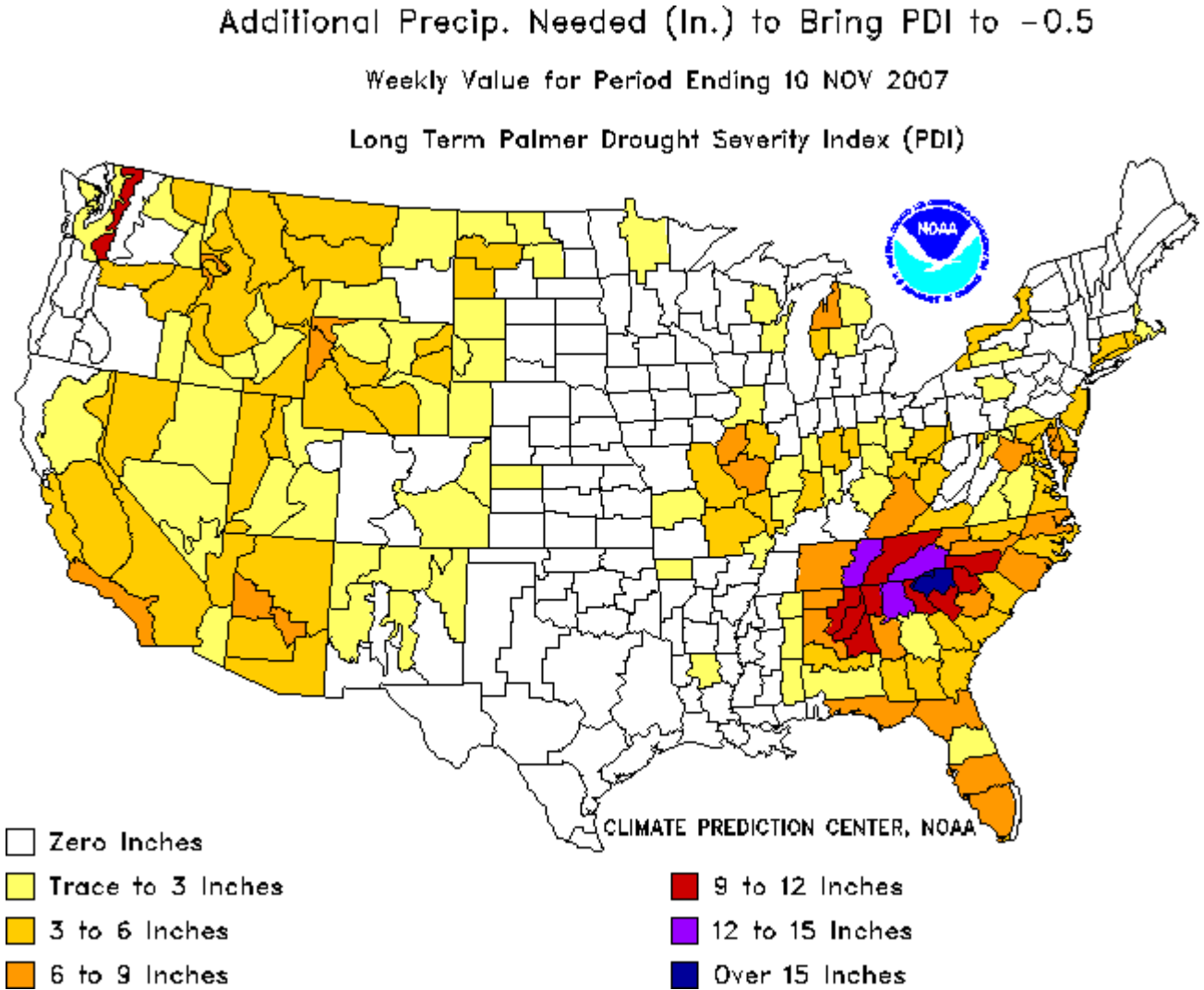


Figure 8 – Weekly Precipitation Need to Bring PDI to -0.5

http://www.cpc.ncep.noaa.gov/products/analysis_monitoring/regional_monitoring/addpcp.gif

Mainstem Reservoir Information

During the month of October the upper three mainstem reservoirs remained at a relatively constant elevation; well above their record lows. Ft. Peck rose 0.2 feet, Garrison fell 0.5 feet and the Oahe reservoir fell 0.1 feet.

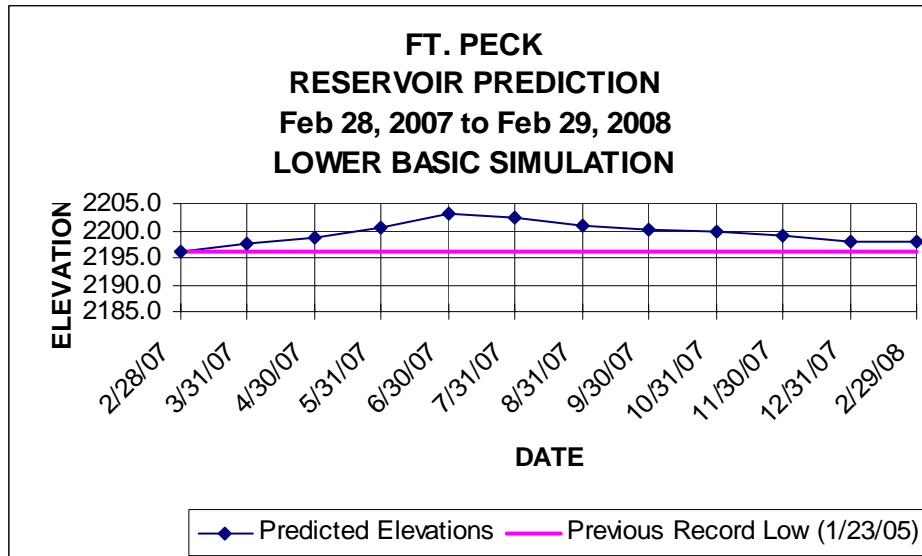
Fort Peck, Montana

Reservoir Elevation Overview

| Lake Elevation 10/31/2006 (ft. msl) | Current Lake Elevation 10/31/2007 (ft. msl) | 30-Day Projected Elevation (11/30/2007) (ft. msl) | 120-Day Projected Elevation (02/29/2008) (ft. msl) |
|---|--|---|--|
| 2202.4 | 2200.3 | 2199.7 | 2198.4 |

Comments:

1. Current reservoir elevation is 33.7-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 is 2.1-feet lower than 10/31/06 (2202.4).
4. The elevation of 2196.2 is the current record low.



Water Intake Overview

| Intake | Comments |
|-----------------------|--|
| Hell Creek State Park | No issues. 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.

| Boat Ramp | Status | Bottom Elevation | Top 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 2008.

Cultural Resources Overview

1. No issues to date.

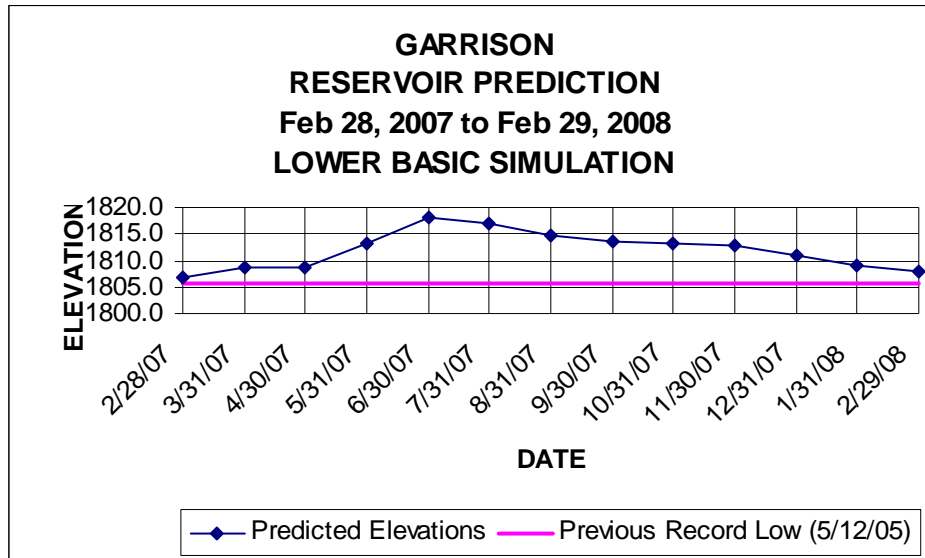
Garrison, North Dakota

Reservoir Elevation Overview

| Lake Elevation 10/31/2006 (ft. msl) | Current Lake Elevation 10/31/2007 (ft. msl) | 30-Day Projected Elevation (11/30/2007) (ft. msl) | 120-Day Projected Elevation (02/29/2008) (ft. msl) |
|---|--|---|--|
| 1809.6 | 1813.2 | 1812.8 | 1808.0 |

Comments:

1. Current reservoir elevation is 24.3-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 3.6-feet higher than elevation on 10/31/06 (1809.6).
4. Record low for the reservoir is 1805.76 on May 12, 2005.



Water Intake Overview

| Intake | Status | Current Reservoir Elev. | Top of Screen Elev. | Operational Concern Elev. | Shutdown Elev. | | Population Supported | Contingency Plan? (Y/N) | Resp. Agency |
|-------------|-------------|-------------------------|---------------------|---------------------------|----------------|--------|----------------------|-------------------------|--------------|
| | | | | | Summer | Winter | | | |
| Whiteshield | Operational | 1813.2 | 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.
3. A new intake was to be installed in 2007. The new elevation and operational information will be provided when available.

| Intake | Status | Current Reservoir Elev. | Top of Screen Elev. | Operational Concern Elev. | Shutdown Elev. | | Population Supported | Contingency Plan? (Y/N) | Resp. Agency |
|-------------|-------------|-------------------------|---------------------|---------------------------|----------------|--------|----------------------|-------------------------|--------------|
| | | | | | Summer | Winter | | | |
| Twin Buttes | Operational | 1813.2 | 1784.4 | 1805 | 1788 | 1790 | 425 | N | TAT/BOR |

Comments:

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.
3. A new intake was to be installed in 2007. The new elevation and operational information will be provided when available.

| Intake | Status | Current Reservoir Elev. | Top of Screen Elev. | Operational Concern Elev. | Shutdown Elev. | | Population Supported | Contingency Plan? (Y/N) | Resp. Agency |
|----------|-------------|-------------------------|---------------------|---------------------------|----------------|--------|----------------------|-------------------------|--------------|
| | | | | | Summer | Winter | | | |
| Mandaree | Operational | 1813.2 | 1786 | 1789.0 | 1789 | 1794 | 780 | N | TAT/BOR |

Comments:

1. The new intake screen is at elevation 1786.

| Intake | Status | Current Reservoir Elev. | Top of Screen Elev. | Operational Concern Elev. | Shutdown Elev. | | Population Supported | Contingency Plan? (Y/N) | Resp. Agency |
|------------|-------------|-------------------------|---------------------|---------------------------|----------------|--------|----------------------|-------------------------|--------------|
| | | | | | Summer | Winter | | | |
| Four Bears | Operational | 1813.2 | 1789.9 | 1800.0 | 1792 | 1794 | 900 | N | TAT/BOR |

Comments:

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.
3. A new intake was to be installed in 2007. The new elevation and operational information will be provided when available.

| Intake | Status | Current Reservoir Elev. | Top of Screen Elev. | Operational Concern Elev. | Shutdown Elev. | | Population Supported | Contingency Plan? (Y/N) | Resp. Agency |
|----------|----------|-------------------------|---------------------|---------------------------|----------------|--------|----------------------|-------------------------|--------------|
| | | | | | Summer | Winter | | | |
| Parshall | Operable | 1813.2 | 1803.6* | 1806.6 | 1797.5 | 1801.5 | 1000 | N | Parshall |

Comments:

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.

| Intake | Status | Current Reservoir Elev. | Top of Screen Elev. | Operational Concern Elev. | Shutdown Elev. | | Population Supported | Contingency Plan? (Y/N) | Resp. Agency |
|-----------|-------------|-------------------------|---------------------|---------------------------|----------------|--------|----------------------|-------------------------|--------------|
| | | | | | Summer | Winter | | | |
| Pick City | Operational | 1813.2 | 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.

| Intake | Status | Current Reservoir Elev. | Top of Screen Elev. | Operational Concern Elev. | Shutdown Elev. | | Population Supported | Contingency Plan? (Y/N) | Resp. Agency |
|----------|-------------|-------------------------|---------------------|---------------------------|----------------|--------|----------------------|-------------------------|--------------|
| | | | | | Summer | Winter | | | |
| Garrison | Operational | 1813.2 | 1787.2 | 1805 | 1792 | 1792 | 1830 | N | Garrison |

Comments:

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.

| Intake | Status | Current Reservoir Elev. | Top of Screen Elev. | Operational Concern Elev. | Shutdown Elev. | | Population Supported | Contingency Plan? (Y/N) | Resp. Agency |
|-------------|-------------|-------------------------|---------------------|---------------------------|----------------|--------|----------------------|-------------------------|--------------|
| | | | | | Summer | Winter | | | |
| SW Pipeline | Operational | 1813.2 | 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 bids were opened and the contract was awarded. Work is to begin during the Fall of 2007 and be completed in FY 2009.

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

Updated 11/5/2007

Reservoir Elevation 10/31/07 – 1813.2

| Location | Type | Top Elevation | Bottom Elevation | Comments | Managing Agency | Contact Person | Phone |
|--|-------------------------|---------------|------------------|-----------------------------------|-------------------------|--------------------|----------|
| Beaver Bay (low-water-COE) | poured concrete | 1829 | 1808 | Usable | 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 | Usable | 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 | 1802.6 | Usable | Beulah Park Board | Kelvin Heinsen | 873-5800 |
| Deepwater Creek (2nd low water) | concrete planks & metal | 1820 | 1805.5 | Usable | Corps of Engineers | Linda Phelps | 654-7411 |
| Deepwater Creek (1st low water) | poured concrete | 1838.5 | 1809 | Usable | Corps of Engineers | Linda Phelps | 654-7411 |
| Douglas Creek (low water) | poured concrete, planks | 1831 | 1790 | Usable | 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 | Usable | 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 | Corps of Engineers | Linda Phelps | 654-7411 |
| Government Bay (main ramp) | poured concrete | 1857 | 1810 | Usable | Corps of Engineers | Linda Phelps | 654-7411 |
| Hazen Bay (2nd low water) | poured concrete | 1830.6 | 1808 | Usable | Hazen Park Board | Mannie Hendrickson | 748-5958 |
| Indian Hills (2nd low water) | concrete planks | 1817.6 | 1807 | Usable | Parks & Rec/Tribes | Kelly Sorge | 743-4122 |
| Indian Hills (3rd 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 | Type | Top Elevation | Bottom Elevation | Comments | Managing Agency | Contact Person | Phone |
|---|----------------------------|----------------------|-------------------------|-----------------|-----------------------------|-----------------------|--------------|
| New Town (proposed ramp) | slide-in metal sections | 1819.0 | 1806.0 | Usable | New Town Park Board | Dusty Rhodes | 627-3900 |
| Parshall Bay (2nd low-water) | slide-in metal sections | 1817.8 | 1808.5 | Usable | Mountrail County Park Board | Clarence Weltz | 627-3377 |
| Pouch Point (3rd low-water) | slide-in metal sections | 1819 | 1807 | Usable | 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 | Usable | 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 | Usable | Aftem Lake Development | Gerald Aftem | 852-2779 |
| Skunk Creek Recreation Area (main) | poured concrete | 1840 | 1806.5 | Usable | Three Affiliated Tribes | Ken Danks | 290-2841 |
| Sportsmen's Centennial Park | poured concrete | 1831.6 | 1808.5 | Usable | McLean County | Les Korgel | 462-8541 |
| Sportsmen's Centennial Park (2nd low water) | slide-in metal sections | 1810 | 1795 | Usable | | | |
| 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 | Usable | Mountrail County Park Board | Clarence Weltz | 627-3377 |
| Van Hook (west low water ramps) | poured concrete | 1821.2 | 1808 | Usable | 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. \$123,000 programmed for noxious weed control in FY 2008.

Cultural Resources Overview

1. Corps and Tribal personnel continue to monitor the shoreline for exposure of cultural site and opportunities for protection of sites.

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.

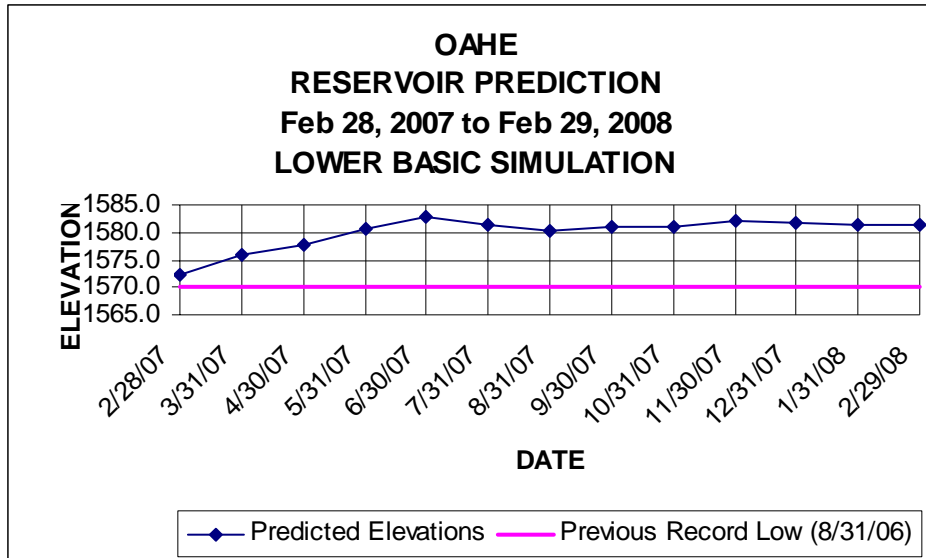
Oahe, South Dakota

Reservoir Elevation Overview

| Lake Elevation 10/31/2006 (ft. msl) | Current Lake Elevation 10/31/2007 (ft. msl) | 30-Day Projected Elevation (11/30/2007) (ft. msl) | 120-Day Projected Elevation (02/29/2008) (ft. msl) |
|---|--|---|--|
| 1572.5 | 1580.9 | 1582.1 | 1581.4 |

Comments:

1. Current reservoir elevation is 26.6-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 8.4-feet higher than 10/31/06 (1572.5).
4. Record low for the reservoir is 1570.17 on August 31, 2006.



Water Intake Overview

| Intake | Status | Current Reservoir Elev. | Top of Screen Elev. | Operational Concern Elev. | Shutdown Elev. | | Population Supported | Contingency Plan? (Y/N) | Resp. Agency |
|-----------|-------------|-------------------------|---------------------|---------------------------|----------------|---------|----------------------|-------------------------|--------------|
| | | | | | Summer | Winter | | | |
| Ft. Yates | Operational | 1580.9 | 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.
- *Intake is in riverine conditions and flow to the intake may be influenced by releases from Garrison reservoir.

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.

| Intake | Status | Current Reservoir Elev. | Top of Screen Elev. | Operational Concern Elev. | Shutdown Elev. | | Population Supported | Contingency Plan? (Y/N) | Resp. Agency |
|---------|-------------|-------------------------|---------------------|---------------------------|----------------|--------|----------------------|-------------------------|--------------|
| | | | | | Summer | Winter | | | |
| Wakpala | Operational | 1580.9 | 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.

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. To view ramp status on Oahe in South Dakota, click on the following link:

[Oahe Boat Ramp Status in South Dakota](#)

2. Ramps on Oahe Project in North Dakota:

| AREA | Status |
|----------------------|----------|
| Sibley Park | Unusable |
| Little Heart Bottoms | Unusable |
| Kimball (Desert) | Marginal |
| 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 |

<http://www.gf.nd.gov/boating/mo-riv-system-boatramps-status.html>

Noxious Weeds Overview

1. \$225,000 programmed for noxious weed control in FY 2008.

Cultural Resources Overview

1. Corps and Tribal personnel continue to monitor the shoreline for exposure of cultural site and opportunities for protection of sites.

Mainstem Reservoir Information, Weekly Elevation Comparison

| 1 Oct. 2007 | | | | | | | | |
|--------------------|----------------------------|--------------------------|-----------------------------|------------------------------|--------|------------------------------------|-------------------------------------|-----------------|
| Project | Project Information | | Reservoir Elevation | | | Reservoir Storage | | |
| | Multi-Purpose Pool Elev. | Flood Control Pool Elev. | Current Elevation (10/1/07) | Previous Elevation (9/24/07) | Change | Current Storage (MAC-FT) (10/1/07) | Previous Storage (MAC-FT) (9/24/07) | Change (MAC-FT) |
| Ft. Peck, MT | 2160 - 2246 | 2246 – 2250 | 2200.3 | 2200.3 | 0.0 | 9.040 | 9.056 | -0.016 |
| Garrison, ND | 1775 – 1850 | 1850 – 1854 | 1813.7 | 1814.0 | -0.3 | 11.828 | 11.828 | -0.062 |
| Oahe, SD | 1540 - 1617 | 1617 – 1620 | 1580.9 | 1580.9 | 0.0 | 11.873 | 11.873 | 0.054 |
| Big Bend, SD | 1415 – 1422 | 1422 – 1423 | 1420.8 | 1420.7 | 0.1 | 1.670 | 1.670 | -0.001 |
| Ft. Randall, SD | 1320 – 1365 | 1365 – 1375 | 1343.6 | 1346.9 | -3.3 | 2.911 | 2.911 | -0.249 |
| Gavins Point, SD | 1204.5 - 1208 | 1208 - 1210 | 1207.3 | 1206.9 | 0.4 | 0.382 | 0.382 | 0.007 |

| 8 Oct. 2007 | | | | | | | | |
|--------------------|----------------------------|--------------------------|-----------------------------|------------------------------|--------|------------------------------------|-------------------------------------|-----------------|
| Project | Project Information | | Reservoir Elevation | | | Reservoir Storage | | |
| | Multi-Purpose Pool Elev. | Flood Control Pool Elev. | Current Elevation (10/8/07) | Previous Elevation (10/1/07) | Change | Current Storage (MAC-FT) (10/8/07) | Previous Storage (MAC-FT) (10/1/07) | Change (MAC-FT) |
| Ft. Peck, MT | 2160 - 2246 | 2246 – 2250 | 2200.4 | 2200.3 | 0.1 | 9.058 | 9.040 | 0.018 |
| Garrison, ND | 1775 – 1850 | 1850 – 1854 | 1813.6 | 1813.7 | -0.1 | 11.727 | 11.828 | -0.039 |
| Oahe, SD | 1540 - 1617 | 1617 – 1620 | 1580.9 | 1580.9 | 0.0 | 11.927 | 11.873 | -0.028 |
| Big Bend, SD | 1415 – 1422 | 1422 – 1423 | 1420.8 | 1420.8 | 0.0 | 1.669 | 1.670 | 0.007 |
| Ft. Randall, SD | 1320 – 1365 | 1365 – 1375 | 1341.3 | 1343.6 | -2.3 | 2.662 | 2.911 | -0.136 |
| Gavins Point, SD | 1204.5 - 1208 | 1208 - 1210 | 1207.7 | 1207.3 | 0.4 | 0.389 | 0.382 | 0.013 |

| 15 Oct. 2007 | | | | | | | | |
|---------------------|----------------------------|--------------------------|------------------------------|------------------------------|--------|-------------------------------------|-------------------------------------|-----------------|
| Project | Project Information | | Reservoir Elevation | | | Reservoir Storage | | |
| | Multi-Purpose Pool Elev. | Flood Control Pool Elev. | Current Elevation (10/15/07) | Previous Elevation (10/8/07) | Change | Current Storage (MAC-FT) (10/15/07) | Previous Storage (MAC-FT) (10/8/07) | Change (MAC-FT) |
| Ft. Peck, MT | 2160 - 2246 | 2246 – 2250 | 2200.3 | 2200.4 | -0.1 | 9.042 | 9.058 | -0.016 |
| Garrison, ND | 1775 – 1850 | 1850 – 1854 | 1813.5 | 1813.6 | -0.1 | 11.701 | 11.727 | -0.026 |
| Oahe, SD | 1540 - 1617 | 1617 – 1620 | 1580.9 | 1580.9 | 0.0 | 11.882 | 11.927 | -0.017 |
| Big Bend, SD | 1415 – 1422 | 1422 – 1423 | 1420.9 | 1420.8 | 0.1 | 1.676 | 1.669 | 0.0 |
| Ft. Randall, SD | 1320 – 1365 | 1365 – 1375 | 1340.1 | 1341.3 | -1.2 | 2.449 | 2.662 | -0.077 |
| Gavins Point, SD | 1204.5 - 1208 | 1208 - 1210 | 1208.0 | 1207.7 | 0.3 | 0.412 | 0.389 | 0.010 |

| 22 Oct. 2007 | | | | | | | | |
|---------------------|----------------------------|--------------------------|------------------------------|-------------------------------|--------|-------------------------------------|--------------------------------------|-----------------|
| Project | Project Information | | Reservoir Elevation | | | Reservoir Storage | | |
| | Multi-Purpose Pool Elev. | Flood Control Pool Elev. | Current Elevation (10/22/07) | Previous Elevation (10/15/07) | Change | Current Storage (MAC-FT) (10/22/07) | Previous Storage (MAC-FT) (10/15/07) | Change (MAC-FT) |
| Ft. Peck, MT | 2160 - 2246 | 2246 – 2250 | 2200.3 | 2200.3 | 0.0 | 9.042 | 9.042 | 0.0 |
| Garrison, ND | 1775 – 1850 | 1850 – 1854 | 1813.4 | 1813.5 | -0.1 | 11.701 | 11.701 | -0.007 |
| Oahe, SD | 1540 - 1617 | 1617 – 1620 | 1580.7 | 1580.9 | -0.2 | 11.882 | 11.882 | -0.022 |
| Big Bend, SD | 1415 – 1422 | 1422 – 1423 | 1421.2 | 1420.9 | 0.3 | 1.676 | 1.676 | 0.014 |
| Ft. Randall, SD | 1320 – 1365 | 1365 – 1375 | 1342.8 | 1340.1 | 2.7 | 2.449 | 2.449 | 0.167 |
| Gavins Point, SD | 1204.5 - 1208 | 1208 - 1210 | 1208.3 | 1208.0 | 0.3 | 0.421 | 0.412 | 0.009 |

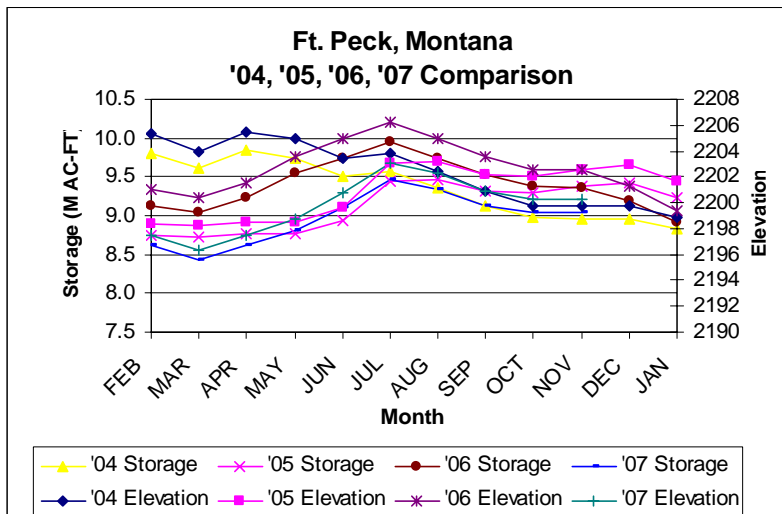
29 Oct. 2007

| Project | Project Information | | Reservoir Elevation | | | Reservoir Storage | | |
|------------------|--------------------------|--------------------------|------------------------------|-------------------------------|--------|-------------------------------------|--------------------------------------|-----------------|
| | Multi-Purpose Pool Elev. | Flood Control Pool Elev. | Current Elevation (10/29/07) | Previous Elevation (10/22/07) | Change | Current Storage (MAC-FT) (10/29/07) | Previous Storage (MAC-FT) (10/22/07) | Change (MAC-FT) |
| Ft. Peck, MT | 2160 - 2246 | 2246 - 2250 | 2200.3 | 2200.3 | 0.0 | 9.040 | 9.042 | -0.002 |
| Garrison, ND | 1775 - 1850 | 1850 - 1854 | 1813.3 | 1813.4 | -0.1 | 11.655 | 11.701 | -0.039 |
| Oahe, SD | 1540 - 1617 | 1617 - 1620 | 1580.8 | 1580.7 | 0.1 | 11.874 | 11.882 | 0.014 |
| Big Bend, SD | 1415 - 1422 | 1422 - 1423 | 1420.9 | 1421.2 | -0.3 | 1.674 | 1.676 | -0.016 |
| Ft. Randall, SD | 1320 - 1365 | 1365 - 1375 | 1343.9 | 1342.8 | 1.1 | 2.685 | 2.449 | 0.069 |
| Gavins Point, SD | 1204.5 - 1208 | 1208 - 1210 | 1207.5 | 1208.3 | -0.8 | 0.396 | 0.421 | -0.025 |

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

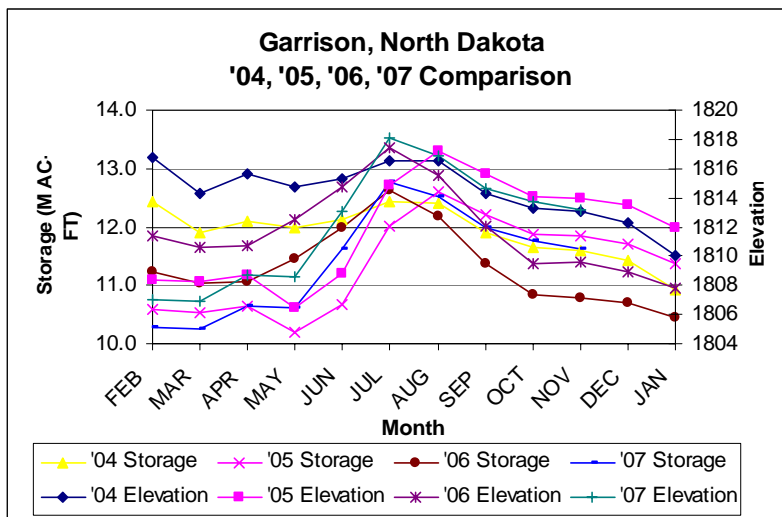
Fort Peck, Montana

| Water Year 2004 (FEB 2004 - JAN 2005) | | Water Year 2005 (FEB 2005 - JAN 2006) | | Water Year 2006 (FEB 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 | 2198.8 | 8.804 |
| 2203.8 | 9.565 | 2203.0 | 9.448 | 2206.3 | 9.962 | 2200.8 | 9.103 |
| 2202.4 | 9.357 | 2203.2 | 9.472 | 2206.2 | 9.958 | 2203.1 | 9.465 |
| 2200.9 | 9.121 | 2202.2 | 9.325 | 2204.9 | 9.750 | 2202.3 | 9.342 |
| 2199.8 | 8.969 | 2202.0 | 9.286 | 2203.6 | 9.525 | 2200.9 | 9.122 |
| 2199.8 | 8.963 | 2202.6 | 9.371 | 2202.5 | 9.359 | 2200.3 | 9.040 |
| 2199.8 | 8.961 | 2202.9 | 9.432 | 2202.6 | 9.383 | 2200.3 | 9.034 |
| 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) | | Water Year 2006 (FEB 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.) |
| 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 | 1808.6 | 10.612 |
| 1816.5 | 12.426 | 1814.9 | 12.026 | 1817.3 | 12.628 | 1813.1 | 11.612 |
| 1816.5 | 12.401 | 1817.2 | 12.591 | 1817.4 | 12.629 | 1818.1 | 12.774 |
| 1814.3 | 11.914 | 1815.8 | 12.216 | 1815.5 | 12.172 | 1816.9 | 12.514 |
| 1813.3 | 11.645 | 1814.1 | 11.861 | 1812.1 | 11.372 | 1814.6 | 11.999 |
| 1813.1 | 11.589 | 1814.0 | 11.837 | 1809.5 | 10.838 | 1813.7 | 11.766 |
| 1812.3 | 11.422 | 1813.5 | 11.707 | 1809.6 | 10.822 | 1813.2 | 11.636 |
| 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) | | Water Year 2006 (FEB 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.) |
| 1577.6 | 11.204 | 1575.2 | 10.715 | 1576.8 | 11.037 | 1572.9 | 10.287 |
| 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 | 1577.7 | 11.221 |
| 1578.4 | 11.338 | 1576.47 | 10.980 | 1577.0 | 11.088 | 1580.5 | 11.826 |
| 1576.8 | 11.045 | 1577.6 | 11.214 | 1575.8 | 10.881 | 1582.8 | 12.346 |
| 1574.3 | 10.540 | 1576.38 | 10.958 | 1573.4 | 10.378 | 1581.4 | 12.045 |
| 1572.1 | 10.112 | 1572.6 | 10.363 | 1570.3 | 9.807 | 1580.1 | 11.752 |
| 1573.2 | 10.316 | 1572.63 | 10.267 | 1571.4 | 9.998 | 1580.9 | 11.927 |
| 1574.8 | 10.608 | 1573.9 | 10.501 | 1572.6 | 10.214 | 1580.8 | 11.898 |
| 1576 | 10.866 | 1575.6 | 10.814 | 1572.9 | 10.263 | | |
| 1575.8 | 10.824 | 1575.3 | 10.75 | 1572.8 | 10.260 | | |

