

PREFACE

This report documents the operation of all Bureau of Reclamation (Reclamation) facilities in the North Platte River Drainage Basin above and including Guernsey Dam and the four Inland Lakes near Scottsbluff, Nebraska. This area of the North Platte River Drainage Basin is simply referred to in this report as the Basin.

References to average in this document will refer to the running 30-year average.

INTRODUCTION

The System of dams, reservoirs, and powerplants on the North Platte River system is monitored, and in most cases operated and managed, from the Wyoming Area Office (WYAO) in Mills, Wyoming. The operation and management of the System is aided by the use of a Programmable Master Supervisory Control, computerized accounting processes, an extensive network of Hydromet stations, control crest measurement weirs at gaging stations, snow telemetry (SNOTEL) stations, and a snowmelt runoff forecasting procedure used by the Water Management Branch. The System consists of a number of individual water resource projects that were planned and constructed by Reclamation. The individual projects and features are operated as an integrated system to achieve efficiencies that increase multipurpose benefits. The drainage basin which affects the System covers an area from northern Colorado to southeastern Wyoming, encompassing 16,224 square miles. Storage reservoirs in the System include four off stream reservoirs known as the Inland Lakes in western Nebraska as shown in Figure 21.

Approximately 70 to 80 percent of the annual North Platte River streamflow above Seminoe Dam occurs from snowmelt runoff during the April-July period. Primary water demand is irrigation, and the period of delivery of irrigation water normally extends from May through September. Figure 20 represents historical watershed runoff above Pathfinder Reservoir from 1906 through 2012. The System furnishes irrigation water to over 440,000 acres of land in Wyoming and Nebraska.

The System includes the Kendrick Project (formerly Casper-Alcova) in Wyoming; with major features of the project being Seminoe Dam and Powerplant, Alcova Dam and Powerplant, and Casper Canal. Kendrick Project lands lie in an irregular pattern on the northwest side of the North Platte River between Alcova Reservoir and Casper, Wyoming. The North Platte Project in Wyoming and Nebraska consists of Pathfinder Dam and Reservoir; Guernsey Dam, Reservoir and Powerplant; Whalen Dam; Northport, Fort Laramie, and Interstate canals; and four off stream inland reservoirs on the Interstate Canal. The Kortes Unit of the Pick-Sloan Missouri Basin Program (PS-MBP) consists of Kortes Dam, Reservoir, and Powerplant, in a narrow gorge of the North Platte River 2 miles below Seminoe Dam. The Glendo Unit of the PS-MBP is a multiple-purpose natural resource development. It consists of Glendo Dam, Reservoir, and Powerplant; Fremont Canyon Powerplant; and Gray Reef Dam and Reservoir which is a re-regulating reservoir immediately downstream of Alcova Dam.

Major rivers which affect the water supply in the System are the North Platte River in Colorado and Wyoming, the Medicine Bow, and Sweetwater Rivers in Wyoming.

The System has seven main stem reservoirs, six of which have powerplants with generating capacities totaling 237,200 kilowatts (kw). Table 1 below depicts North Platte River Reservoir Data.

The Department of Energy, by Executive Order dated October 1, 1977, assumed the responsibility of marketing power from Federal resources and operation and maintenance of federal transmission facilities.

Western Area Power Administration (Western) of the Department of Energy, headquartered in Lakewood, Colorado, now operates and maintains the nearly 3,500 miles of interconnected electrical transmission lines within the System. The power generating facilities are also interconnected with other Federal, public and private power facilities. Power from Reclamation Powerplants is marketed by Western.

Table 1 North Platte River Reservoir Data

Reservoir (Date Completed)	Dead Storage ¹ Acre-feet (AF)	Active Storage ² (AF)	Total Storage (AF)	Minimum Storage (AF)	Minimum Elevation (feet)
Seminole (1939)	556	1,016,717	1,017,273	31,670 ⁴	6239.00 ⁴
Kortes (1951)	151	4,588	4,739	1,666 ⁴	6092.00 ⁴
Pathfinder (1909)	7	1,069,993	1,070,000	31,405 ⁴	5746.00 ⁴
Alcova (1938)	91	184,314	184,405	137,610 ⁵	5479.50 ⁵
Gray Reef (1961)	56	1,744	1,800	56 ⁶	5312.00 ⁶
Glendo (1958)	7,010	756,029	763,039 ³	51,573	4570.00 ⁷
Guernsey (1927)	0	45,612	45,612	0	4370.00 ⁸
Total	7,871	3,078,997	3,086,868	253,980	

¹ Storage capacity below elevation of lowest outlet

² Total storage minus dead storage

³ Top of Conservation capacity 492,022 AF (Elevation 4635.00 ft) with an additional 271,017 AF allocated to Flood Control (elevation 4653.00 ft)

⁴ Minimum water surface elevation and capacity required for power generation this level is the top of inactive capacity

⁵ Content and minimum elevation required for power generation, however, water cannot be delivered to Casper Canal when reservoir level is below 5487.00 ft (153,802 AF), the elevation of the Casper Canal Gate sill.

⁶ Top of dead capacity – spillway crest

⁷ Minimum water surface elevation for power generation

⁸ Elevation of the North Spillway Crest

SYSTEM PLANNING AND CONTROL

The North Platte River storage, power generation, and water delivery facilities are operated for irrigation, hydroelectric power production, municipal, and industrial water supply. The facilities provide year round flows in the river below each North Platte Dam except for Guernsey Dam. The facilities also provide flood control, recreation, fish and wildlife preservation, and other purposes. Each project of the System must be operated under the purposes for which it was authorized and constructed. The objective of an integrated system is to obtain optimum benefits from the individual projects.

The System's integrated operation is planned and coordinated by Reclamation's Wyoming Area Office (WYAO) in Mills, Wyoming. This office collects and analyzes information daily and makes the decisions necessary for successful operation of the System. The water management function involves coordination between Reclamation, the Department of Energy, and many other local, state, and Federal agencies. When water levels rise into the exclusive flood control pool at Glendo Reservoir, the flood control operation of Glendo Dam is directed by the U.S. Army Corps of Engineers, Omaha District, Omaha, Nebraska.

Experience has proven that optimum utilization of the available water resources in the System can be achieved only through careful budgeting of the anticipated water supply. The technical end product of this budgeting process is an Annual Operating Plan (AOP).

The System is operated on a water year basis (October 1 through September 30). Early in the water year an AOP is prepared, reviewed, and presented to the public. The AOP consists of three operation studies using reasonable minimum, reasonable maximum, and most probable inflow conditions determined from statistical analysis of historical inflow conditions. The AOP, as developed and reflected in the three operation studies, provides the flexibility to adjust operations as conditions change during the water year. Reclamation makes use of computer programs to revise and adjust the operating plan each month to reflect changing conditions. A computerized process of forecasting the anticipated water supply also aids the revision process during the months of February, March, April, and May. Figure 1 depicts North Platte Reservoirs Total Storage end of September content for water years 1912 through 2012. Table 2 depicts A Summary of Reservoir Storage Content for water year 2012 (End of Month).

Table 2 Summary of Reservoir Storage Content for Water Year 2012 (End of Month)

Seminoe Reservoir			Pathfinder Reservoir			Alcova Reservoir		
Month	Storage	Record ¹	Month	Storage	Record ¹	Month	Storage	Record ¹
October	871,173	3 rd highest Highest Highest Highest Highest 2 nd highest	October	751,928		October	156,718	
November	877,117		November	753,172		November	157,125	
December	878,382		December	756,201		December	156,718	
January	870,814		January	767,331		January	156,967	
February	845,778		February	799,441		February	157,102	
March	839,303		March	857,030		March	158,303	
April	826,472		April	905,430		April	179,449	
May	824,750		May	815,220		May	180,498	
June	740,920		June	695,956		June	180,840	
July	676,796		July	555,077		July	181,085	
August	615,091		August	429,008		August	180,987	
September	565,363		September	384,869		September	180,816	
Glendo Reservoir			Guernsey Reservoir			Total System ²		
Month	Storage	Record ¹	Month	Storage	Record ¹	Month	Storage	Record ¹
October	262,613	3 rd highest	October	5,045	2 nd lowest 3 rd lowest 3 rd lowest	October	2,053,409	3 rd highest
November	302,462		November	7,995		November	2,103,878	
December	340,121		December	10,750		December	2,148,355	
January	380,590		January	13,244		January	2,194,934	
February	419,070		February	15,372		February	2,242,778	
March	471,158		March	17,588		March	2,349,781	
April	489,081		April	20,038		April	2,426,863	
May	402,135		May	28,775		May	2,257,843	
June	382,802		June	27,359		June	2,034,299	
July	261,325		July	26,662		July	1,707,407	
August	121,987		August	28,043		August	1,381,552	
September	115,512		September	274		September	1,253,015	

¹ Record is the 30 year period from 1982-2011

² Total North Platte System includes storage in Seminoe, Kortes, Pathfinder, Alcova, Gray Reef, Glendo and Guernsey Reservoirs

³ Alcova Reservoir is normally maintained within either a winter operating range (between contents of 153,802 AF to 158,302 AF) or a summer operating range (between contents 177,070 AF to 181,943 AF)

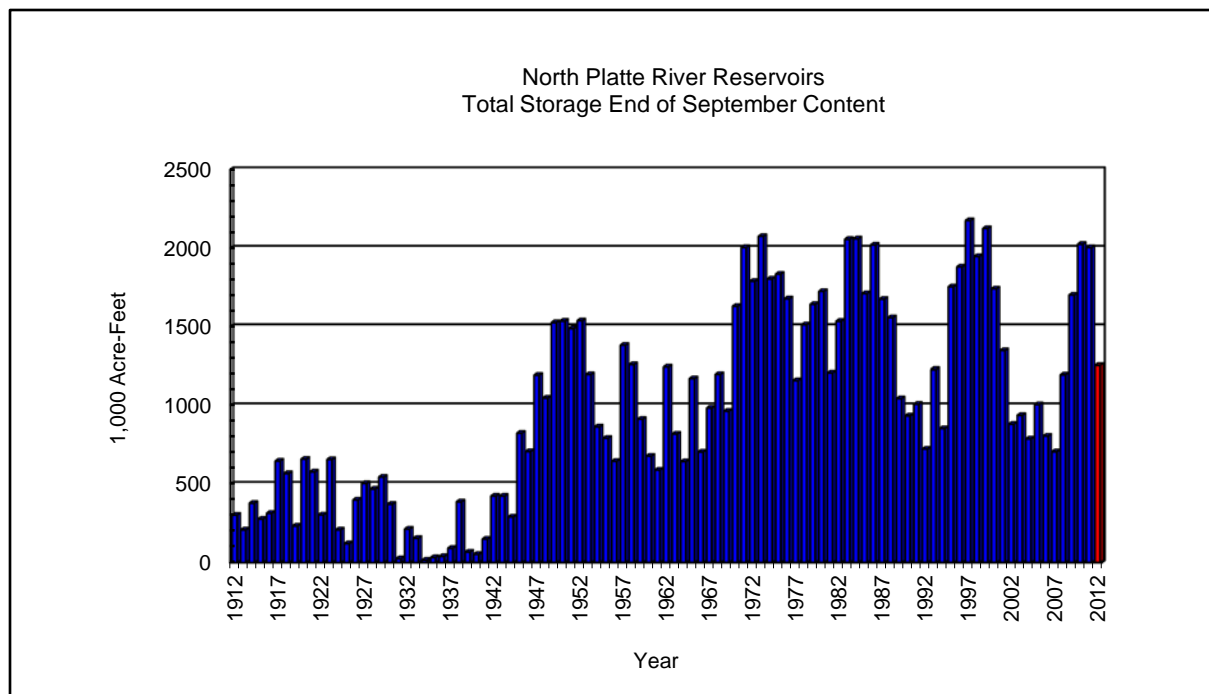


Figure 1 North Platte River Reservoirs Total Storage End of September Content (1912-2012)

SYSTEM OPERATIONS WATER YEAR 2012 Seminole Reservoir Inflow

Seminole Reservoir inflows were below average for the months of April through September. A total of 554,963 acre-feet (AF) or 54 percent of the 30 year average entered the system above Seminole Reservoir during the water year. The monthly inflows ranged from a high of 140 percent of average in October 2011 to a low of 14 percent in June 2012. The actual April through July inflow totaled 268,432 AF, which was 35 percent of the 30 year average of 769,600 AF. The Seminole computed inflow peaked for the water year on March 27, 2012, at 2,968 cubic feet per second (cfs) compared to 17,064 cfs in water year 2011. Figure 2 depicts a comparison of average, water year 2012 and water year 2011 monthly inflow.

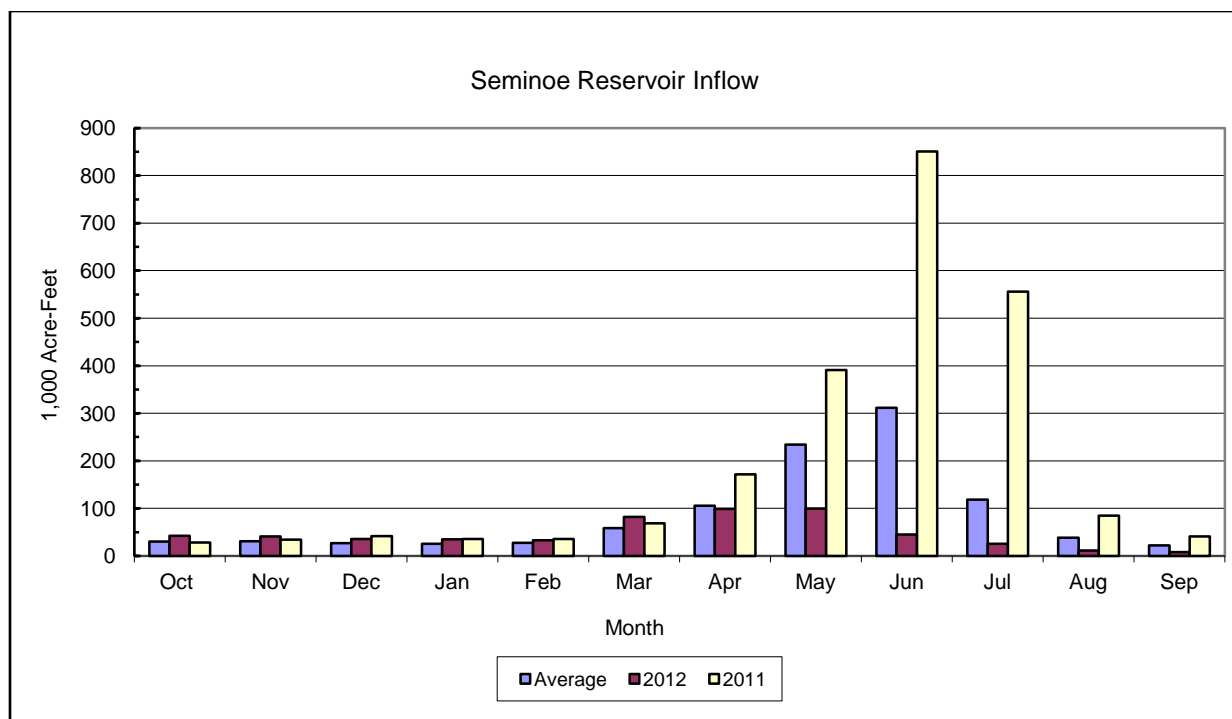


Figure 2 Seminole Reservoir Inflow

Seminole Reservoir Storage and Releases

Seminole Dam and Reservoir, on the North Platte River, is the main storage facility for the Kendrick Project. Construction of the dam was completed in 1939, providing a storage capacity of 1,017,273 AF. The powerplant contains three electrical generating units with a total capacity of 51 mega-watts (MW) at a full release capability of about 4,050 cfs. The spillway consists of a concrete-lined tunnel through the right abutment controlled by three fixed-wheel gates with a release capability of close to 48,000 cfs. Two 60 inch jet flow valves provide a low level river outlet with a flow capacity of 3,420 cfs.

At the start of water year 2012, Seminole Reservoir had a storage content of 867,228 AF, which was 138 percent of average and 85 percent of capacity. The maximum Seminole Reservoir content was reached on January 8, 2012, at 878,744 AF. Due to the below average spring runoff, Seminole storage content decreased to below average during the water year. At the end of water year 2012, Seminole Reservoir storage content was 565,363 AF, which was 90 percent of average and 56 percent of capacity. See Figure 3 for a comparison of average, water year 2012 and water year 2011 monthly storage.

Releases from Seminole Dam averaged approximately 530 cfs from October 2011 through January 2012. The release was increased to approximately 1,000 cfs by late January; to 2,000 cfs by late March. The release was decreased to approximately 1,000 cfs in mid July. The water release was reduced to approximately 530 cfs on September 19, 2012, which would be the flow for the winter. Table 3 depicts a summary of Seminole Reservoir information for Water Year 2012.

Table 3 Seminole Reservoir Hydrologic Data for Water Year 2012

Reservoir Allocations	Elevation (FT)	Storage (AF)	Storage Allocation (AF)
Top of Inactive and Dead	6239.00	31,670	31,670
Top of Active Conservation	6357.00	1,017,273	985,603
Crest of Dam (without Camber)	6361.00		

Storage-Elevation Data	Elevation (FT)	Storage (AF)	Date
Beginning of water year	6349.14	867,228	Oct 1, 2011 ²
End of water year	6329.22	565,363	Sep 30, 2012
Annual Low	6329.22	565,363	Sep 30, 2012
Historic Low ¹	6253.30	56,390	Apr 20, 1961
Annual High	6349.78	878,744	Jan 8, 2012
Historic High ¹	6359.29	1,073,050	Jun 20, 1949

¹ The daily records for this table are only available from water year 1946.

² Represents 0001 hours on October 1

Inflow-Outflow Data	Inflow ³	Date	Outflow	Date
Annual Total (AF)	554,963	Oct' 11 – Sep' 12	800,284	Oct' 11 – Sep' 12
Daily Peak (CFS)	2,968	Mar 27, 2012	2,048 ⁴	Jul 10, 2012
Daily Minimum (CFS)	8	Sep 21, 2012	490 ⁴	Jan 9, 2012
Peak Jet Flow Valve (CFS)				
Total Jet Flow Valve (CFS)				

³ Inflows are a computed number.

⁴ Daily peak and minimum are releases to the river.

Month	Inflow		Outflow		Content ⁶	
	KAF	% of Avg. ⁵	KAF	% of Avg. ⁵	KAF	% of Avg. ⁵
October	42.1	140	33.0	76	871.2	144
November	40.7	133	32.2	69	877.1	150
December	35.3	132	33.3	64	878.4	157
January	34.7	135	40.6	75	870.8	165
February	32.8	119	57.2	105	845.8	169
March	81.7	139	83.0	119	839.3	172
April	98.6	93	106.4	110	826.5	167
May	99.4	42	94.7	79	824.8	136
June	44.9	14	118.6	72	740.9	100
July	25.5	22	81.9	60	676.8	94
August	11.5	30	66.2	76	615.1	93
September	7.7	35	53.0	105	565.4	90
Annual	554.9	54	800.3	82		

⁵ The 30 year average is the period (1982-2011)

⁶ End of month

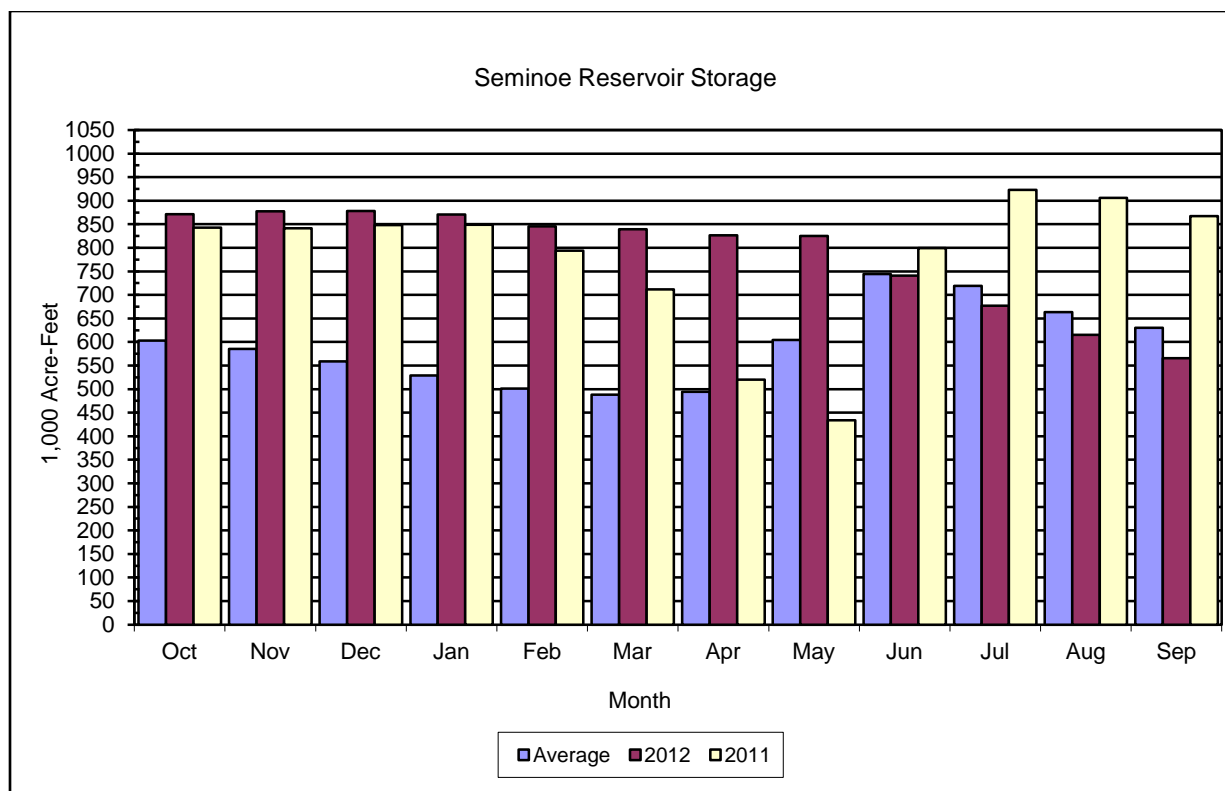


Figure 3 Seminole Reservoir Storage

Kortes Reservoir Storage and Releases

Completed in 1951, Kortes Dam, Reservoir, and Powerplant of the Kortes Unit (Pick-Sloan Missouri Basin Project) are located about 2 miles below Seminole Dam. It was the first unit initiated by the Bureau of Reclamation under the Missouri River Basin Project. Kortes Reservoir provides a total storage capacity of 4,739 AF at elevation 6142.0 feet which is the level of the spillway crest. Kortes Powerplant has three electrical generating units with a total capacity of 36 MW and a release capability of approximately 3,000 cfs. Water released from Seminole Dam to Pathfinder Reservoir passes through the Kortes turbines to generate power. Maximum benefits are obtained when Kortes Reservoir remains full and the power releases are coordinated with those from Seminole Powerplant to maintain a full reservoir.

The spillway on the right abutment consists of an uncontrolled crest with a concrete-lined tunnel and has a capacity of 50,000 cfs.

Senate Bill 2553 which was passed in the 90th Congress authorized the modification of the operation of Kortes Dam and Powerplant to provide a minimum streamflow of 500 cfs in the North Platte River between Kortes Reservoir and the normal headwaters of Pathfinder Reservoir. The minimum flow permits maintenance of a fishery in a stretch of the North Platte River commonly referred to as the "Miracle Mile".

Kortes releases averaged approximately 550 cfs from October 2011 through late January 2012. The release was increased to approximately 1,000 cfs in late February and to 2,000 cfs by March 21. Flows were temporarily decreased to an average release of approximately 1,500 cfs in mid April, and 1,000 cfs in early May before being increased back to 2,000 cfs in mid May. The release was decreased to 1,000 cfs in mid July. The water release was reduced to approximately 530 cfs on September 19, 2012, which would be the flow for the winter. In water year 2012 most releases were made through the Kortes Powerplant, except for occasions, when testing or maintenance required bypass releases.

Gains to the North Platte River from Kortes Dam to Pathfinder Dam

Kortes Dam to Pathfinder Dam river gains were below average for all of water year 2012 except March 2012. The Kortes Dam to Pathfinder Dam river gains ranged from 23 percent of average in December 2011 to 115 percent in March 2012. The actual April through July river gains were 16,460 AF, which is 21 percent of the 30 year average of 79,400 AF. Figure 4 depicts a comparison of average, water year 2011 and water year 2012 monthly river gains.

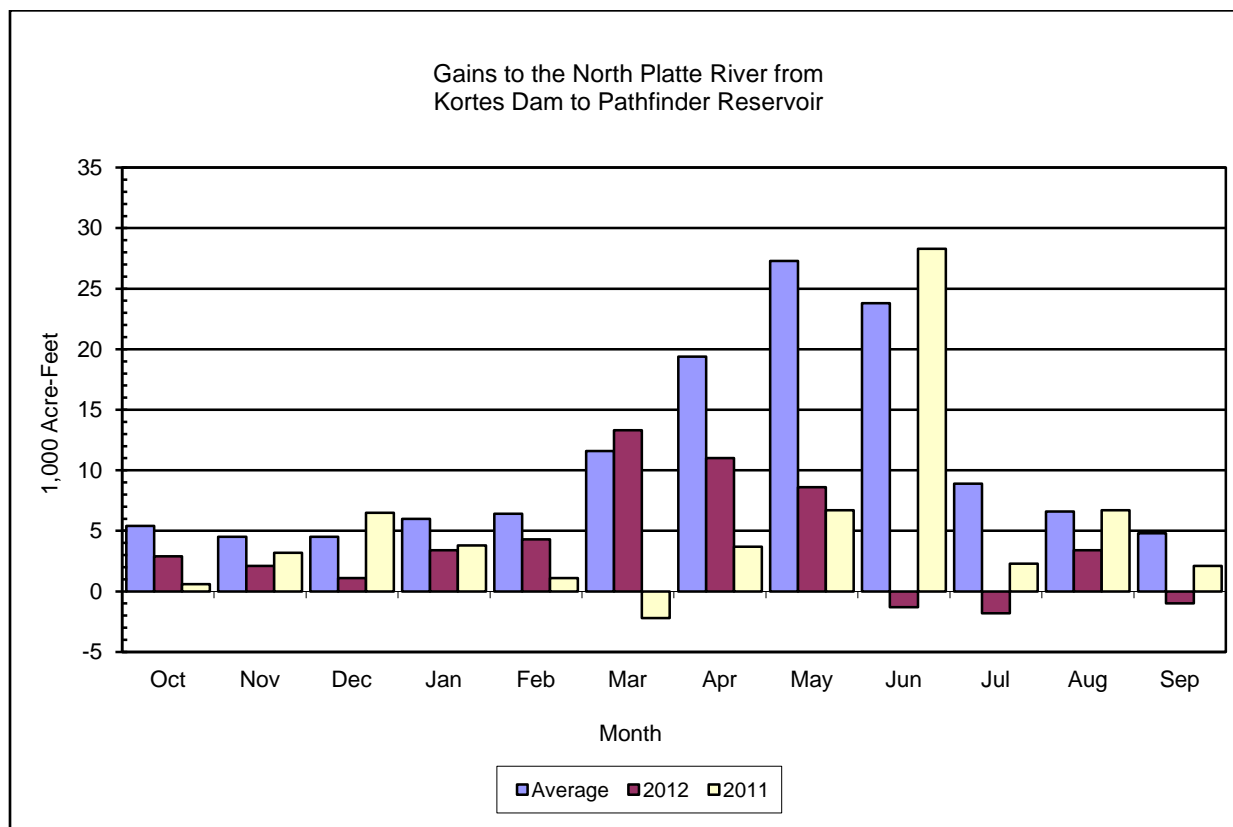


Figure 4 Gains to the North Platte River from Kortes Dam to Pathfinder Reservoir

Pathfinder Reservoir Storage and Releases

Pathfinder Dam and Reservoir, a major storage facility of the North Platte Project, has a total capacity of 1,070,000 AF at elevation 5852.49 feet. Construction of the dam was completed in 1909. Operationally, this structure is a bottleneck in the System with its maximum non-spillway release capability of approximately 6,000 cfs. The rated capacity of the left abutment outlet works through the two 60-inch jet flow gates is approximately 3,000 cfs at elevation 5852.49 feet. The flow capacity range of the 30-inch jet flow gate is from approximately 50 to 450 cfs. Depending on the elevation of the reservoir, as much as 2,516 cfs can be released through the Fremont Canyon Power conduit and discharged from the Fremont Canyon turbines at the powerplant 3 miles downstream. Re-conditioning of Unit 2 of the Fremont Canyon Powerplant was completed in 2012. Re-conditioning of Unit 1 is expected to be completed in 2013. The 33.4 MW nameplate rating of these two units has not changed. Total rating of these two units is 66.8 MW.

Reconstruction of the Pathfinder spillway was completed in 2012. The spillway crest was raised approximately 2.4 feet to elevation 5852.49 feet. The crest of the uncontrolled spillway on the left abutment of the dam was reconfigured from a flat-crested natural rock weir to an ogee-crested concrete weir. A spill occurs any time the reservoir water surface exceeds 5852.49 feet. The calculated discharge capacity of the spillway is 32,449 cfs at reservoir elevation 5858.10 feet.

At the start of water year 2012, storage in Pathfinder Reservoir was 729,118 AF, which was 145 percent of average and 72 percent of capacity. Pathfinder storage remained above average until July 2012 (See Figure 5). The maximum Pathfinder Reservoir content for the water year was reached on April 30, 2012, at 905,430 AF which is 85 percent of capacity. The water year ended with 384,869 AF of water in storage in Pathfinder Reservoir, which was 76 percent of average and 36 percent of capacity. A continual release of water from Pathfinder Reservoir during October was maintained during the gradual drawdown of Alcova Reservoir to its winter operating range. At the request of the Wyoming Game and Fish Department a year round flow of 75 cfs was provided to the river below Pathfinder Dam. The 75 cfs minimum flow is provided through the 30-inch Jet-Flow Valve except when the 60-inch Jet-Flow valves is needed to supplement Fremont Canyon releases to make required irrigation deliveries. One turbine at Fremont Canyon Powerplant was undergoing maintenance during the irrigation season and the river below Pathfinder Dam reached a maximum flow of approximately 2,700 cfs. Table 4 depicts a summary of Pathfinder Reservoir information for water year 2012.

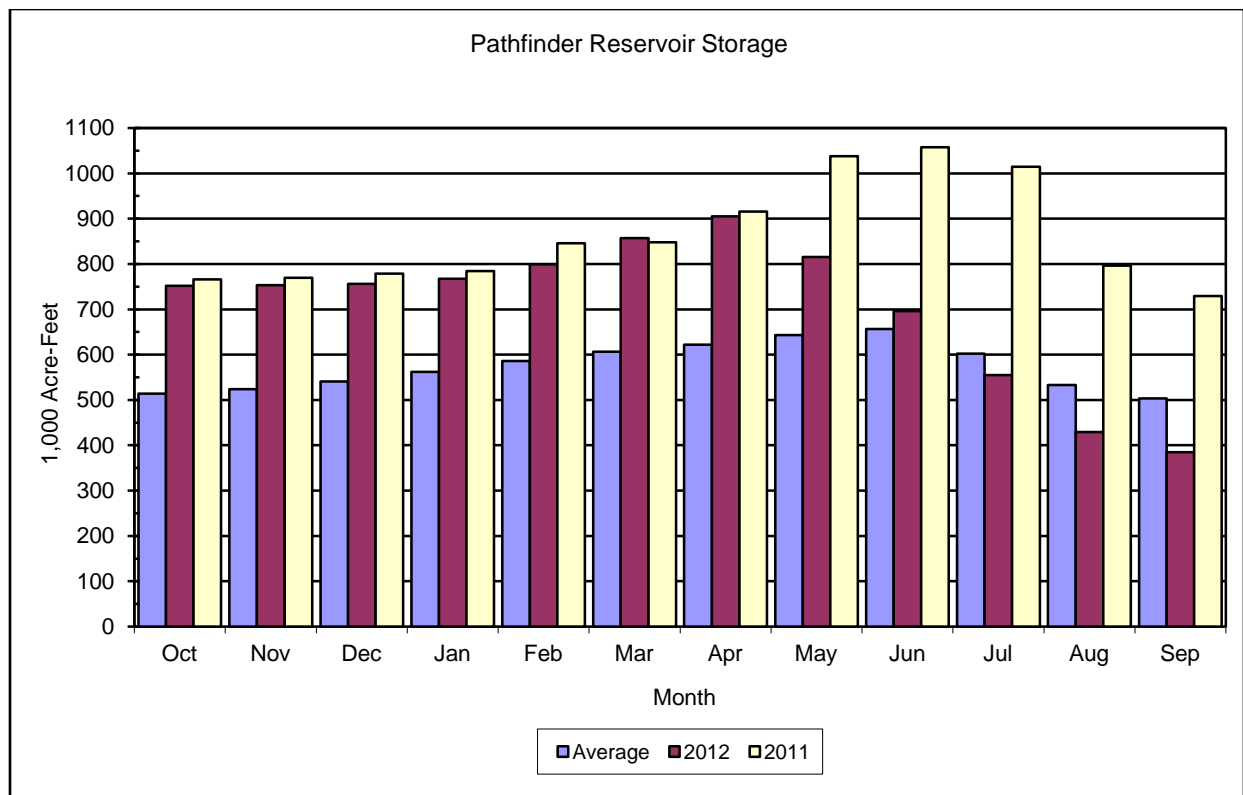


Figure 5 Pathfinder Reservoir Storage

Table 4 Pathfinder Reservoir Hydrologic Data for Water Year 2012

Reservoir Allocations	Elevation (FT)	Storage (AF)	Storage Allocation (AF)
Top of Inactive and Dead	5746.00	31,405	31,405
Top of Active Conservation	5852.49	1,070,000	1,038,595
Crest of Dam (without Camber)	5858.10		

Storage-Elevation Data	Elevation (FT)	Storage (AF)	Date
Beginning of water year	5835.52	729,118	Oct 1, 2011 ³
End of water year	5809.78	384,869	Sep 30, 2012
Annual Low	5809.78	384,869	Sep 30, 2012
Historic Low ^{2, 3}	5690.00	0	Sep 9, 1958
Annual High	5844.86	905,430	Apr 30, 2012
Historic High ¹	5853.11	1,083,755	Jul 7, 1983

¹ Daily records for this table are only available from water year 1946

² From September 1958 through January 1959, Pathfinder Reservoir was drained for construction of Fremont Canyon Tunnel.

³ Represents 0001 hours on October 1.

Inflow-Outflow Data	Inflow	Date	Outflow	Date
Annual Total (AF)	845,966	Oct, 2011 – Sep, 2012	1,123,753	Oct, 2011 – Sep, 2012
Daily Peak (CFS)	3,557	Mar 27, 2012	3,906	Jun 5, 2012
Daily Minimum (CFS)	144	Nov 15, 2011	32	Oct 7, 2011
Peak Jet Flow Valve (CFS)			2,725 ⁴	Jul 4, 2012
Total Jet Flow Valve (AF)			511,067	Oct, 2011 – Sep, 2012

⁴ At the request of the Wyoming Game and Fish Department a yearly flow of 75 cfs will be provided through the Pathfinder Reservoir 30 inch Jet-Flow Valve to the river below Pathfinder Dam.

Month	Gain from Kortess		Inflow ⁶		Outflow		Content ⁸	
	KAF	% of Avg. ⁵	KAF	% of Avg. ⁵	KAF	% of Avg. ⁵	KAF	% of Avg. ⁵
October	2.9	53	35.9	73	7.2	30	751.9	146
November	2.1	46	34.3	67	30.6	77	753.2	144
December	1.1	23	34.4	60	30.7	79	756.2	140
January	3.4	57	44.0	73	31.2	81	767.3	137
February	4.3	68	61.6	101	28.8	81	799.4	136
March	13.3	115	96.3	118	33.0	56	857.0	141
April	11.0	57	117.4	101	62.0	64	905.4	146
May	8.6	31	103.2	70	184.6	154	815.2	127
June	-1.3	NA ⁷	117.3	62	224.5	134	696.0	106
July	-1.8	NA ⁷	80.1	55	211.3	111	555.1	92
August	3.4	51	69.5	75	188.1	121	429.0	80
September	-1.0	NA ⁷	52.0	94	91.7	115	384.9	76
Annual	45.9	36	846.0	77	1123.8	108		

⁵ 30 year average is the period (1982-2011)

⁶ The inflow includes the gain from Kortess Dam to Pathfinder Dam.

⁷ Represents a negative number that makes the percentage meaningless.

⁸ End of Month

Alcova and Gray Reef Reservoirs Storage and Releases

Alcova Dam and Reservoir is part of the Kendrick Project. The dam serves as a diversion dam for the Casper Canal and the reservoir as a forebay for the Alcova Powerplant. The dam is located about 10 miles downstream from Pathfinder Dam and was completed in 1938. Reservoir storage capacity is about 184,405 AF at elevation 5500 feet, of which only the top 30,600 AF is active capacity available for irrigation of the Kendrick Project. The powerplant consists of two electrical generating units with a total installed capacity of 36 MW at a full release capability of about 4,100 cfs. The spillway is a concrete lined open channel in the left abutment of the dam controlled by three 25 by 40 foot gates with a capacity of 55,000 cfs at a reservoir level of 5500 feet. The reservoir is operated within a 2 foot range during summer and winter but at levels 10 feet apart. A higher operating level is maintained during the summer months to provide adequate head on the Casper Canal, while the lower winter operating level reduces the potential for ice damage to the canal gate.

The annual drawdown of Alcova Reservoir began on October 1, 2011, and continued through October 29, 2011, when the reservoir reached its normal winter operating range of 5488 \pm one foot. The refill of Alcova Reservoir was initiated on April 1, 2012. The water surface elevation was raised above 5497 feet on April 25, 2012, and the reservoir was maintained within 1 foot of elevation 5498 throughout the summer.

Gray Reef Dam and Reservoir is part of the Glendo Unit, Oregon Trail Division, Pick-Sloan Missouri Basin Program. The dam which was completed in 1961 is a three-zoned rock earthfill structure located about 2.5 miles below Alcova Dam. The reservoir has an active capacity of 1,744 AF. Gray Reef Reservoir is operated to reregulate widely fluctuating water releases from the Alcova Powerplant, and provide stable flow for irrigation, municipal, industrial, and fish and wildlife interests along the 147 miles of river between Alcova and Glendo Dams.

The Gray Reef releases were maintained at 500 cfs from October 2011 until April 1, 2012. At the request of the Wyoming Game and Fish Department, a series of flushing flows were initiated on April 2, 2012, and continued through April 6, 2012, during which the flows were varied each day from 500 cfs to 4,000 cfs, for the purpose of flushing silt from spawning gravels used by trout. At the completion of the flushing flows, releases from Gray Reef were returned to 500 cfs until April 28, 2012. Releases for the remainder of the water year were adjusted to meet irrigation demands below Guernsey Reservoir. The largest daily release of water for the water year occurred on May 26, 2012, at 3,657 cfs.

Gains to the North Platte River from Alcova Dam to Glendo Reservoir

River gains from Alcova Dam to Glendo Reservoir were above average for October 2011 through March 2012 and below average for April through September. The Alcova Dam to Glendo Reservoir river gains ranged from a high of 196 percent in March to a low of 8 percent in May 2012. The actual April through July gain was 46,808 AF, which was 34 percent of average. The maximum computed daily river gain of 1,377 cfs occurred on April 3, 2012, and the daily computed Glendo Reservoir inflow peaked on May 27, 2012, at 3,801 cfs. Figure 6 depicts a comparison of average, water year 2012 and water year 2011 monthly river gains.

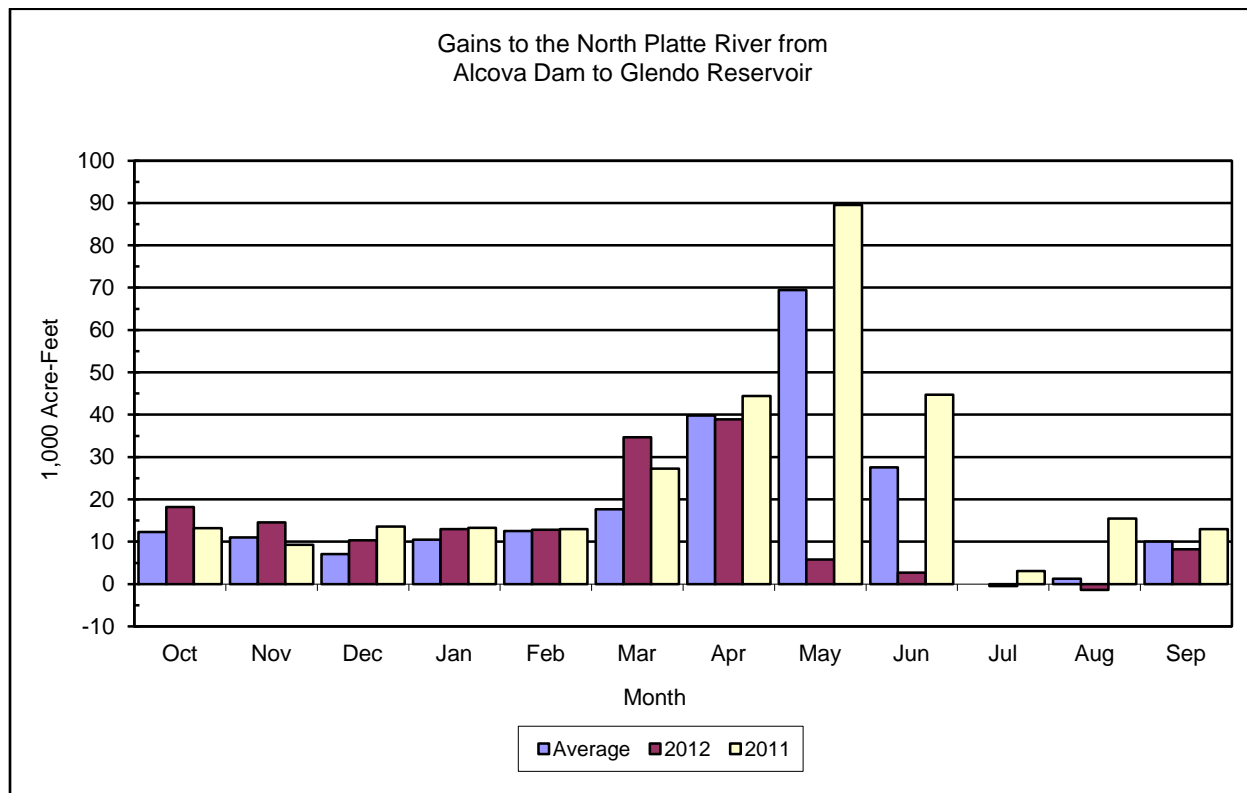


Figure 6 Gains to the North Platte River from Alcova Dam to Glendo Reservoir

Glendo Reservoir Storage and Releases

Glendo Dam and Reservoir is the only storage facility for the Glendo Unit. The reservoir has a storage capacity of 789,402 AF, including 271,917 AF allocated to flood control. Glendo Powerplant consists of 2 electrical generating units, with a total installed capacity of 38 MW. With both generating units operating at capacity and the reservoir water surface at elevation 4635.0 feet, approximately 3,920 cfs can be released through Glendo Powerplant. The reinforced concrete spillway has an ungated ogee crest. The spillway capacity at elevation 4669.0 feet, (6 feet below the crest of the dam), is 10,335 cfs.

The outlet works from Glendo Dam consist of the primary outlet works which discharge at the powerplant, and the low-flow outlet which discharges to the river immediately below the dam. The three primary outlet gates can release a combined discharge of 13,000 cfs with the powerplant shut down. During normal operation, when the reservoir elevation is below the top of conservation storage (4635 feet), outlet works discharges should typically remain below 5,500 cfs. This precautionary practice is to minimize the potential for damage to the stilling basin and training walls. The low-flow outlet works are operated to maintain a continuous release of approximately 25 cfs. This provides a reliable water source for the downstream wetland area and results in associated fish and wildlife benefits.

Glendo Reservoir storage was 219,125 AF at the beginning of water year 2012, which was 179 percent of average but only 42 percent of active conservation of 517,485 AF. Water releases from Glendo Reservoir were initiated on April 8, 2012, in order to move water to the Inland Lakes. The reservoir reached a maximum storage for the year of 495,206 AF (elevation 4633.16 feet) on April 8, 2012. At the end of the water year, Glendo Reservoir contained 115,512 AF of water (water surface elevation 4587.66 feet) which was 95 percent of average and only 23 percent of active conservation of 492,022 AF. Figure 7 depicts water year 2012 and water year 2011 end of month reservoir storage compared to average. Table 5 depicts a summary of Glendo Reservoir information for water year 2012.

A new area capacity table for Glendo Reservoir, based upon a recent silt survey was applied on September 30, 2012. This resulted in a reduced capacity with the top of active conservation being 492,022 AF at elevation 4635 feet.

The Glendo Dam outlet works low flow valve was shut off in late September 2012, to reduce inflows into Guernsey Reservoir in order to maintain the level of Guernsey Reservoir below the 4400 ft elevation required for Safety of Dams work at Guernsey Dam.

Table 5 Glendo Reservoir Hydrologic Data for Water Year 2012

Reservoir Allocations	Elevation (FT)	Storage (AF)	Storage Allocation (AF)
Top of Inactive and Dead	4570.00	63,148	63,148
Top of Active Conservation	4635.00	517,485	454,337
Top of Exclusive Flood Control	4653.00	789,402	271,917
Maximum water surface(surcharge)	4669.00	1,118,653	329,251
Crest of Dam (without Camber)	4675.00		

Storage-Elevation Data	Elevation (FT)	Storage (AF)	Date
Beginning of water year	4602.52	219.125	Oct 1, 2011 ¹
End of water year	4587.66	115,512	Sep 30, 2012
Annual Low	4581.89	106,553	Sep 6, 2012
Historic Low	4548.10	15,140	Sep 28, 1966
Annual High	4633.16	495,206	Apr 9, 2012
Historic High	4650.94	758,830	May 28, 1973

¹ Represents 0001 hour on October 1.

Inflow-Outflow Data	Inflow	Date	Outflow ²	Date
Annual Total (AF)	1,165,933	Oct, 2011 – Sep, 2012	1,216,945	Oct, 2011 – Sep, 2012
Daily Peak (CFS)	3,801	May 27, 2012	7,501	Jul 29, 2012
Daily Minimum (CFS)	87	Mar 13, 2012	11 ³	Sep 30, 2011
Peak Bypass Release (CFS)			3,909	Jul 28, 2012
Total Bypass Release (AF)			214,306 ³	Oct, 2011 – Sep, 2012

² Includes the average daily release of approximately 25 cfs from the low flow outlet works.

³ A low flow outlet works was completed in 1993 and an average release of 25 cfs is maintained all year.

Month	Gain from Alcova		Inflow ⁷		Outflow		Content ⁸	
	KAF	% of Avg. ⁵	KAF	% of Avg. ⁵	KAF	% of Avg. ⁵	KAF	% of Avg. ⁵
October	18.2	148	47.2	77	1.6	70 ⁶	262.6	151
November	14.6	133	42.4	81	1.6	102 ⁶	302.5	136
December	10.3	145	39.7	87	1.7	90 ⁶	340.1	127
January	13.0	123	43.1	90	1.7	88 ⁶	380.6	122
February	12.8	102	40.6	88	1.5	67 ⁶	419.1	118
March	34.7	196	56.9	79	1.7	7 ⁶	471.2	118
April	38.9	98	69.1	61	46.6	83	489.1	110
May	5.8	8	158.7	91	241.1	178	402.1	83
June	2.7	9	206.8	119	219.2	123	382.8	79
July	-0.5	NA ⁴	195.9	115	311.5	98	261.3	81
August	-1.4	NA ⁴	167.7	121	303.5	105	122.0	78
September	8.2	82	97.8	117	85.2	88	115.5	95
Annual	157.1	71	1165.9	99	1216.9	228		

⁴ Represents a negative number that makes the percentage meaningless.

⁵ 30 year average is the period (1982-2011)

⁶ 18 year average is the period (1994-2011) in 1993 a low flow valve was installed at Glendo Dam which allowed the release of 25 cfs during the non irrigation season. Therefore, a 18 year average is used for the months of October through March. The March average is skewed high due to evacuation of space in the upper system to allow for snow melt run off. The higher March average caused the percent of average to be lower than normal.

⁷ Inflow includes the gain from Alcova Dam to Glendo Dam.

⁸ End of month

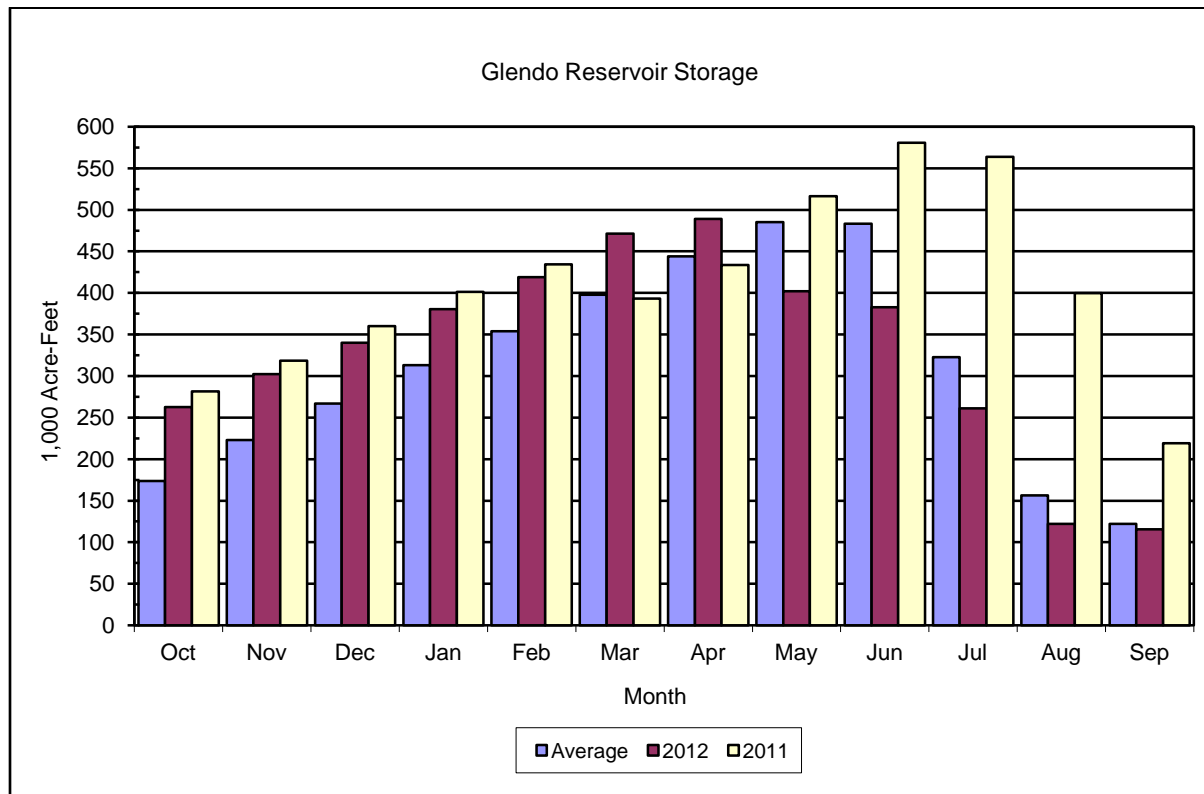


Figure 7 Glendo Reservoir Storage

Gains to the North Platte River from Glendo Dam to Guernsey Reservoir

The river gains between Glendo Dam and Guernsey Dam during water year 2012 were below average 8 months with only the months of October 2011, and January through March 2012 being above average. The Glendo Dam to Guernsey Reservoir river gains ranged from a high of 135 percent of average in March 2012 to a low of 36 percent in May 2012, with the months of April and June through August having negative values making a percentage value meaningless. On July 26, 2012, daily computed inflow to Guernsey Reservoir peaked at 7,790 cfs. Figure 8 depicts a comparison of average, water year 2012 and water year 2011 monthly river gains.

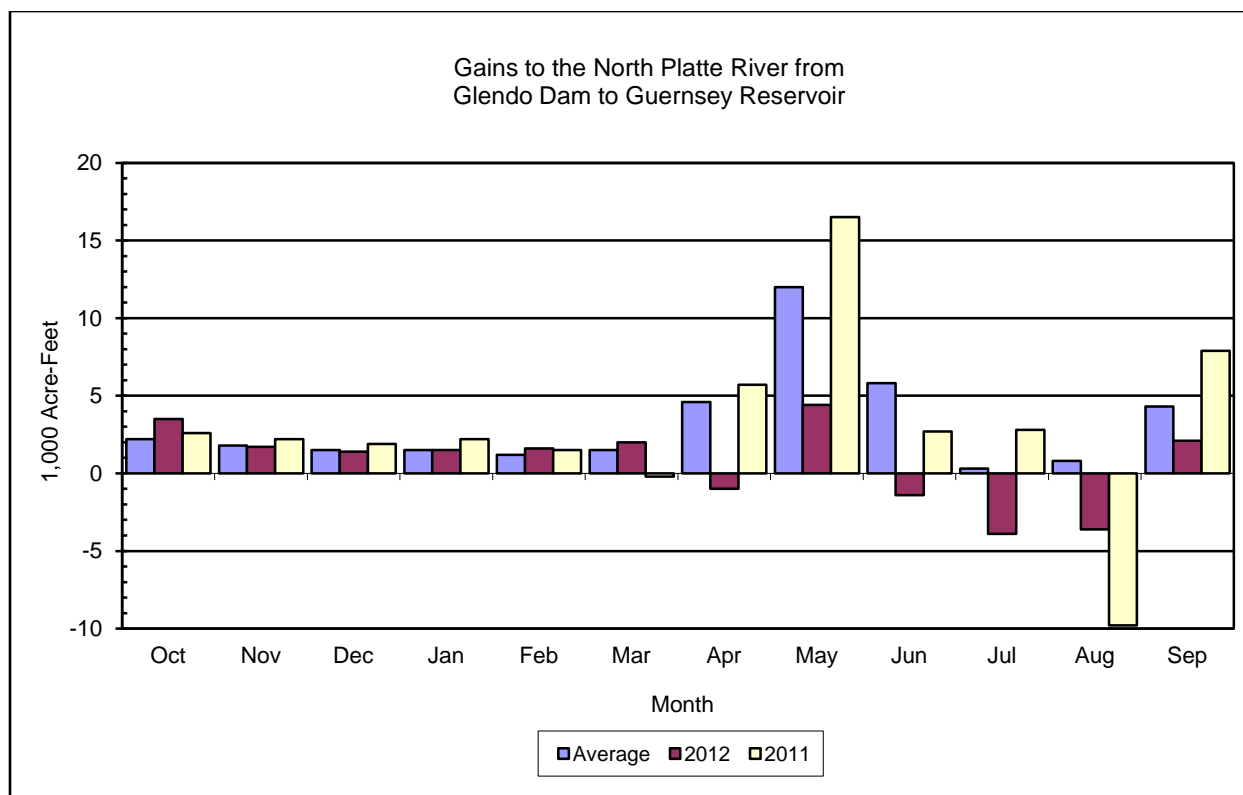


Figure 8 Gains to the North Platte River from Glendo Dam to Guernsey Reservoir

Guernsey Reservoir Storage and Releases

Guernsey Dam located about 25 miles below Glendo Dam, again stores and reregulates the flow of the river prior to delivery of storage water to project lands of the North Platte Project and Glendo Unit. Guernsey Powerplant, located on the right abutment of the dam, has two 3.2 MW electrical generating units with a combined release capability of about 1,340 cfs. The windings of both units have been replaced resulting in the rating of 3.2 MW per unit. The north spillway gate, with a capacity of 50,000 cfs at a reservoir level of 4420 feet, is utilized for irrigation releases to supplement the maximum powerplant releases.

The original capacity of the reservoir was 73,800 AF, but this has been greatly reduced by deposition of silt. Utilizing data from the 1980 Sedimentation Survey of Guernsey Reservoir, the March 1982 - Area Capacity Tables and Curves shows about 45,600 AF of available storage.

At the beginning of water year 2012, storage in Guernsey Reservoir was at 452 AF. Releases from Guernsey Reservoir were started on April 8, 2012, as water was moved into the Inland Lakes. The annual "silt run" from the reservoir was initiated on July 11 and continued for 15 days. Reservoir storage was reduced to initiate the "silt run" and was maintained at a low level throughout the period. The minimum reservoir content during the "silt run" of 1,118 AF occurred on July 24, 2012. Following the "silt run", the reservoir was refilled to 27,029 AF by August 1, 2012, again making the reservoir suitable for recreation.

At the end of the irrigation season, September 30, 2012, Guernsey Reservoir contained 274 AF. See Figure 9 for water year 2012 and water year 2011 storage compared to average.

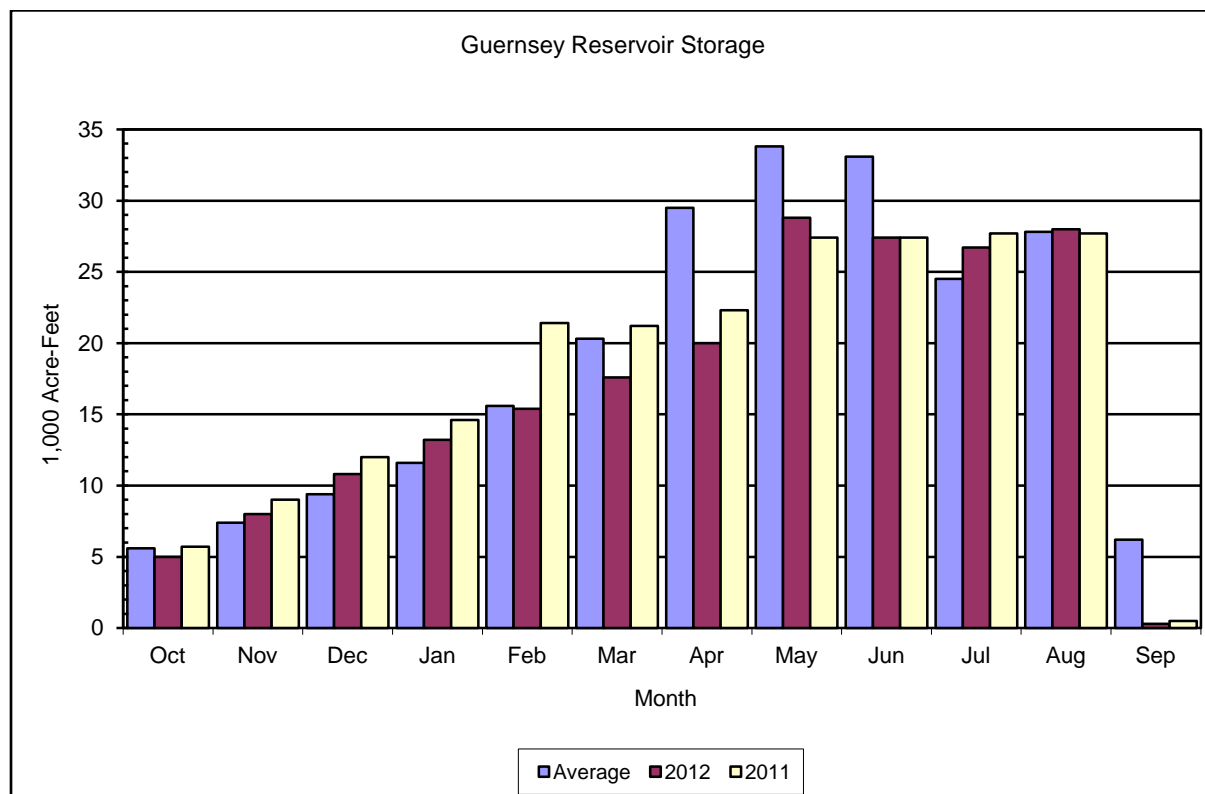


Figure 9 Guernsey Reservoir Storage

Precipitation Summary for Water Year 2012

Although the precipitation was quite variable from month to month throughout the North Platte River Basin, Seminoe, Pathfinder, Glendo, and Guernsey watersheds had below average total precipitation for the water year. Watershed precipitation is an average of the precipitation readings using several stations as indicators for each watershed.

In the Seminoe watershed, the Elk Mountain, Wyoming and Walden, Colorado weather stations recorded the lowest March precipitation on record, since 1905 for Elk Mountain, and since 1938 for Walden. The Seminoe watershed precipitation was only 3 percent of normal in March 2012. The Seminoe watershed had an annual total of 65 percent of average precipitation for water year 2012.

In the Pathfinder watershed, precipitation at the Pathfinder Dam, Wyoming weather station recorded the second highest November precipitation since 1901, and the third lowest August precipitation since 1901. The Pathfinder watershed precipitation was over 160 percent of normal in November 2011 and January 2012, but only 3 percent of normal in August 2012. The Pathfinder watershed had an annual total of 73 percent of average precipitation for water year 2012.

In the Glendo Watershed, precipitation at the Casper, Wyoming weather station recorded the second lowest June precipitation in the last 30 years. The Glenrock weather station recorded the lowest March precipitation since 1942. The Glendo Watershed precipitation was only 12 percent of normal in June 2012. The Glendo Watershed had an annual total of 75 percent of average precipitation for water year 2012. The Pathfinder Dam weather station is used as an indicator in both the Pathfinder and Glendo Watersheds.

In the Guernsey Watershed, the Glendo Dam, Wyoming and Guernsey Dam, Wyoming, weather stations recorded the lowest March precipitation on record with no recorded precipitation for either station for the month. The Guernsey Watershed precipitation was 0 percent of normal in March 2012. The Guernsey Watershed had an annual total of 52 percent of average precipitation for water year 2012.

See Figure 10 for a comparison of average, water year 2012 and water year 2011 total precipitation.

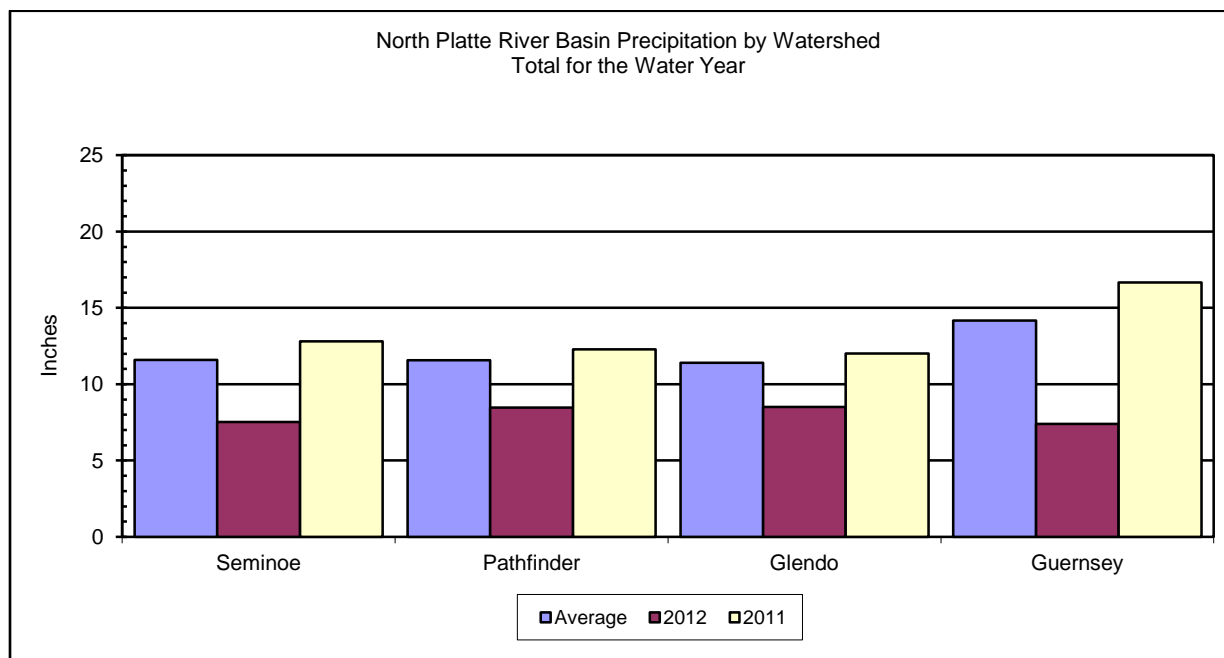


Figure 10 North Platte River Basin Precipitation by Watershed Total for Water Year 2012

Snowpack Summary for Water Year 2012

Reclamation relies on the Natural Resources Conservation Service (NRCS) to provide snow water equivalent (SWE) information for the three drainage areas in which Reclamation forecasts snowmelt runoff. SWE for the watershed area above Seminoe Reservoir was well below average for February, March, April, and May. SWE for the Sweetwater River Watershed above Pathfinder Reservoir was just below average for February, March, and April before decreasing far below average for May. SWE for the watershed between Alcova Dam and Glendo Reservoir was above average in February and March, before decreasing below average for April and May. Table 6 shows a summary of snowpack for water year 2012.

Snowpack SWE for February 1, 2012, was below average at 66 percent for the watershed above Seminoe Reservoir; below average at 88 percent for the Sweetwater River Watershed which flows into Pathfinder Reservoir; and above average at 120 percent for the Alcova to Glendo Watershed.

Snowpack on March 1, 2012, increased with SWE at 81 percent of average for the watershed above Seminoe Reservoir; decreased to 82 percent of average for the Sweetwater River Watershed which flows into Pathfinder Reservoir; and increased to 132 percent of average for the Alcova to Glendo Watershed.

Snowpack for April 1, 2012, decreased significantly with SWE at 55 percent of average for the watershed above Seminoe Reservoir; decreased to 78 percent of average for the Sweetwater River Watershed which flows into Pathfinder Reservoir; and decreased to 84 percent of average for the Alcova to Glendo Watershed.

Snowpack for May 1, 2012, decreased greatly with SWE at 30 percent of average for the watershed above Seminoe Reservoir; 31 percent of average for the Sweetwater River Watershed which flows into Pathfinder Reservoir; and 39 percent of average for the Alcova to Glendo Watershed.

Table 6 North Platte Snow Water Equivalent for 2012

Watershed	Feb 1		Mar 1		Apr 1		May 1	
	SWE ¹	% of Avg. ²	SWE ¹	% of Avg. ²	SWE ¹	% of Avg. ²	SWE ¹	% of Avg. ²
Seminoe Reservoir	8.8	66	13.8	81	11.5	55	6.4	30
Pathfinder Reservoir	8.5	88	10.1	82	11.5	78	4.5	31
Glendo Reservoir	8.7	120	12.1	132	10.0	84	4.2	39

¹ SWE (Snow Water Equivalent is the amount of water in the snowpack expressed in inches).

² Average is based on the 1971-2000 period.

Allocation for Water Year 2012

No allocation of storage water was required in water year 2012. The most consecutive allocation years historically are now 2002, 03, 04, 05, 06, and 2007 with 1953, 54, 55, 56, and 1957 being the second longest series of consecutive allocation years.

Ownerships for Water Year 2012

Stored water which is held in accounts for various entities is referred to as their ownership. At the beginning of water year 2012, the North Platte Project Ownership (includes North Platte Pathfinder and North Platte Guernsey), contained 694,959 AF of water, which is 162 percent of average. The Kendrick Ownership contained 1,109,121 AF of water, which is 126 percent of average; and the Glendo Ownership contained 176,685 AF of water, which is 140 percent of average. The Pathfinder Irrigation Account, Glendo, Inland Lakes, and Guernsey Ownerships filled to their permitted amount during water year 2012.

The Operational Ownership filled in March 2012. This allowed for re-regulation water to be used in evaporation payback. Over 9,000 AF of re-regulation water was used to pay back evaporations to other ownership accounts (see Table 8).

The total amount of water stored at the end of water year 2012 in the mainstem reservoirs for use in water year 2013 was 1,253,015 AF which was 87 percent of average. This total does not include 18,247 AF of water remaining in the four Inland Lakes in Nebraska.

At the end of water year 2012, the North Platte Project Ownership (includes North Platte Pathfinder and North Platte Guernsey), contained 155,208 AF of water which is 36 percent of average. The Glendo Ownership contained 119,256 AF of water which is 91 percent of average. The Kendrick Ownership contained 961,645 AF, which is 109 percent of average and the operational/re-regulation water account contained 10,782 AF. Also stored in the North Platte storage system was 4,124 AF for the city of Cheyenne, 0 AF for the Wyoming Water Development Commission, and 2,000 AF for Pacific Power. See Figure 11 for the last two water years ownership carryover compared with average. Table 8 shows a summary of ownership for water year 2012.

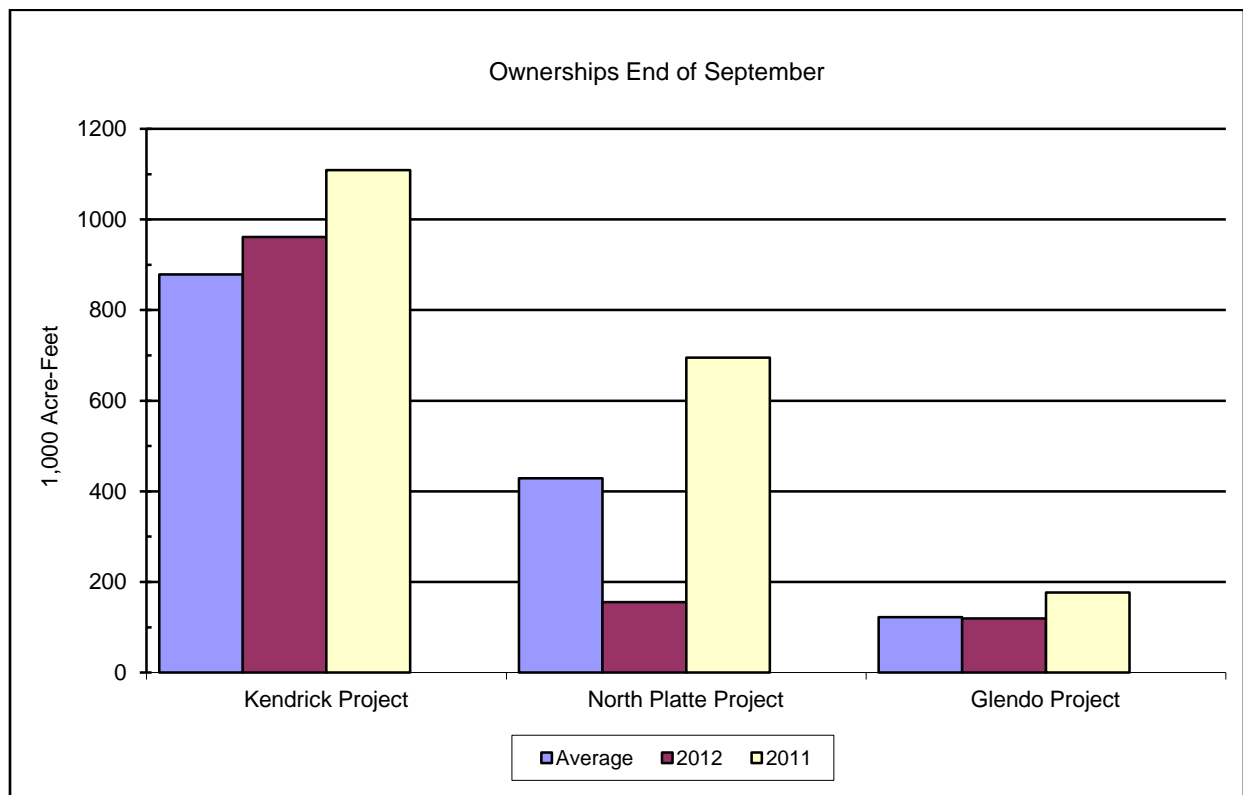


Figure 11 Ownership End of September

North Platte River Forecast 2012

Reservoir inflow forecasts are prepared at the first of February, March, April, and May to estimate the inflows expected for the April through July runoff period.

Runoff forecasts for the Seminole Reservoir Watershed, the Sweetwater River above Pathfinder Reservoir, and the North Platte River from Alcova Dam to Glendo Reservoir are based on snow telemetry (SNOTEL) and/or snow course sites, precipitation sites, and calculated November inflow. Reclamation maintains a database consisting of historic monthly data for reservoir inflows, snow and precipitation stations. WYAO staff coordinates with NRCS Portland Office staff to exchange forecasted numbers. Reclamation forecasts and NRCS forecasts are then reviewed by WYAO management. All the information available is considered and judgment is applied to result in a final forecast of reservoir inflow. The forecasted information is then made available to the public through a news release and is used in updating monthly reservoir operating plans. Table 7 depicts a summary of the monthly forecasts for water year 2012.

Table 7 Summary of Forecasts of April-July Runoff for Water Year 2012

Forecast Points	Feb 1		Mar 1		Apr 1		May 1		Actual April-July KAF	% of Apr-Jul Avg. ¹
	KAF	% of Avg.	KAF	% of Avg.	KAF	% of Avg.	KAF	% of Avg.		
Seminole Reservoir	500	65	550	71	350	45	160 ²	21	268.4	35
Sweetwater River	60	98	60	98	50	82	21 ³	34	24.3	40
Alcova to Glendo	185	135	210	153	135	99	65 ⁴	47	46.9	34

¹ Average is based on the 1982-2011 period.

² The May 1 forecast includes an actual April inflow of 98,600 AF.

³ The May 1 forecast includes an actual April inflow of 12,700 AF.

⁴ The May 1 forecast includes an actual April inflow of 38,900 AF.

Table 8 Summary of North Platte River System Ownership for Water Year 2012

Summary of North Platte River Systems Ownerships for Water Year 2012 (Acre-Feet)													
Months	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
TOTAL													
Pathfinder Ownership													
Evaporation		-3,946	-2,845	-2,535	-818	-1,682	-5,684	-7,696	-10,245	-14,858	-10,771	-6,968	-2,924
Accrual		37,790	41,722	38,035	34,601	37,874	84,820	102,931	706	0	0	0	0
B/ Delivery			0	0	0	0	0	0	-37,791	-168,865	-273,650	-280,635	-87,275
A/ PP&L payback		0	0	0	0	0	0	0	806	152	0	0	0
Evaporation payback											0	0	0
Ownership total		728,803	767,680	803,180	836,963	873,155	952,291	1,047,526	1,001,002	817,431	533,010	245,407	155,208
Kendrick Ownership													
Evaporation		-3,848	-3,360	-3,005	-930	-1,863	-5,870	-6,395	-7,935	-12,367	-10,634	-9,909	-6,795
Accrual		0	0	0	0	0	0	0	0	0	0	0	0
B/ Delivery		0	0	0	0	0	0	0	-16,392	-13,823	-19,091	-15,455	-9,804
Evaporation payback											0	0	0
Ownership total		1,105,273	1,101,913	1,098,908	1,097,978	1,096,115	1,090,245	1,083,850	1,059,523	1,033,333	1,003,608	978,244	961,645
Glendo Ownership													
Evaporation		-1,307	-1,179	-94	-675	-287	-1,515	-2,569	-2,846	-4,302	-4,322	-3,880	-2,780
Accrual		0	0	0	0	0	6,553	0	0	0	0	0	0
B/ Delivery		0	0	0	0	-56	0	0	0	-6,414	-7,494	-7,356	-24,532
E/ Evaporation payback							7,626	0	0	0	0	0	0
Ownership total		175,378	174,199	174,105	173,430	173,087	178,125	183,182	180,336	169,620	157,804	146,568	119,256
Guernsey Ownership													
Evaporation		-19	-15	-18	-178	-124	-652	-886	-675	0	0	0	0
Accrual		324	0	11,365	13,902	13,436	6,978	0	0	0	0	0	0
B/ Delivery		0	0	0	0	0	0	0	-44,937	0	0	0	0
E/ Evaporation payback							1,499	0	0	0	0	0	0
Ownership total		305	290	11,637	25,361	38,673	44,999	45,612	0	0	0	0	0
Inland Lakes													
Evaporation		-56	-159	-30	-91	-52	-241	-255	-1	0	0	0	0
Accrual		22,026	16,017	0	0	0	0	8,231	0	0	0	0	0
C/ Delivery		0	0	0	0	0	0	-42,310	-3,079	0	0	0	0
Ownership total		21,970	37,828	37,798	37,707	37,655	37,414	3,080	0	0	0	0	0

Table 8 (Continued) Summary of North Platte River System Ownership for Water Year 2012

Summary of North Platte River Systems Ownerships for Water Year 2012 (Acre-Feet)														
Months	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
City of Cheyenne														
Evaporation		-10	-13	-12	-1	-8	-42	-44	-19	-15	-28	-31	-28	-251
Stored		2,768	659	857	810	850	838	39	168	778	810	1,115	1,211	10,903
Used		-304	-274	-86	-15	-234	-148	-2,924	-4,076	-401	-193	-67	-367	-9,089
Ownership total		5,015	5,387	6,146	6,940	7,548	8,196	5,267	1,340	1,702	2,291	3,308	4,124	
Pacific Corp (PP&L)														
Evaporation		-11	-9	0	-3	-1	-12	-18	-26	-31	-32	-34	-32	-209
Accrual		0	0	0	0	0	0	0	80	31	32	34	32	209
B/ Delivery		0	0	0	0	0	0	0	0	0	0	0	0	0
Ownership total		1,989	1,980	1,980	1,977	1,976	1,964	1,946	2,000	2,000	2,000	2,000	2,000	
WWDC Ownership														
Evaporation		0	0	0	0	0	0	0	0	0	0	0	0	0
Accrual		0	0	0	0	0	0	0	0	0	0	0	0	0
D/ Delivery		-3,076	0	0	0	0	0	0	0	0	0	0	0	-3,076
Ownership total		0	0	0	0	0	0	0	0	0	0	0	0	
Operational Ownership														
Evaporation		-94	-75	0	-23	-9	-90	-150	-164	-210	-172	-148	-81	-1,216
Accrual		0	0	0	0	0	467	204	0	0	0	0	0	671
Delivery		0	0	0	0	0	0	0	-1,194	-3,219	-1,347	-2,521	-1,092	-9,373
Evaporation payback											0	0	0	0
Ownership total		14,676	14,601	14,601	14,578	14,569	14,946	15,000	13,642	10,213	8,694	6,025	4,852	
Re-Regulation Water														
Evaporation		0	0	0	0	0	-60	-291	-109	0	0	0	-34	-494
Accrual		0	0	0	0	0	21,661	29,419	0	0	0	0	5,964	57,044
Delivery		0	0	0	0	0	0	0	-41,291	0	0	0	0	-41,291
E/ Evaporation Payback								-9,329			0	0	0	-9,329
Ownership total		0	0	0	0	0	21,601	41,400	0	0	0	0	5,930	

A/ In 1992, the Wyoming State Engineer granted an exchange which allows Pacific Power to exchange direct flows in the winter months (Oct-Apr) for direct flow in the summer months. During the winter months some direct flows which are available for storage under Pathfinder's storage right are not stored but instead are allowed to pass downstream for use by Pacific Power. In exchange, starting on May 1 Pacific Power allows some of its available direct flow to pass downstream to Glendo Reservoir to be stored as Pathfinder Ownership. The exchange water was returned to Pathfinder at a rate of 26 AF daily starting on May 1, 2012, until June 6, 2012, when the last 22 AF of the exchange was returned.

B/ Amounts shown as delivery are storage water only. Natural flow which was delivered is not shown in this table.

C/ Transfer refers to Inland Lakes Ownership water which was delivered from storage in Glendo or Guernsey Reservoirs. In April and May, 45,453 AF was transferred to the Inland Lakes.

D/ Wyoming Water Development Commission (WWDC) did not contract with the Bureau of Reclamation for storage space therefore the 2,046 AF of carry over in Glendo Reservoir was transferred back to city of Cheyenne and the remaining 1,030 AF released into the system as gains in the lower reach.

E/ Evaporations in the Glendo, and Guernsey Ownerships were paid back using re-regulation water.

Table 9 Actual Reservoir Operations for Water Year 2012

NORTH PLATTE RIVER OPERATING PLAN
Year Beginning Oct 2011

HYDROLOGY OPERATIONS

Seminole Reservoir Operations		Initial Content 867.2 Kaf					Operating Limits: Max 1017.3 Kaf, 6357.00 Ft.					Min 31.7 Kaf, 6239.02 Ft.	
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Total Inflow	kaf	42.1	40.7	35.3	34.7	32.8	81.7	98.6	99.4	44.9	25.5	11.5	7.7
Total Inflow	cfs	685.	684.	574.	565.	570.	1328.	1657.	1617.	754.	415.	185.	129.
Turbine Release	kaf	33.0	31.4	33.3	40.6	57.2	79.2	95.2	92.9	118.6	63.9	66.2	52.4
Jet flow Release	kaf	0.0	0.8	0.0	0.0	0.0	3.8	11.2	1.8	0.0	18.1	0.0	0.6
Spillway Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Release	kaf	33.0	32.2	33.3	40.6	57.2	83.0	106.4	94.7	118.6	82.0	66.2	53.0
Total Release	cfs	537.	542.	542.	660.	995.	1350.	1789.	1540.	1993.	1333.	1077.	890.
Evaporation	kaf	5.2	2.5	0.7	1.7	0.6	5.1	5.0	6.5	10.1	7.7	7.0	4.4
End-of-month content	kaf	871.2	877.1	878.4	870.8	845.8	839.3	826.5	824.8	740.9	676.8	615.1	565.4
End-of-month elevation	ft	6349.4	6349.7	6349.8	6349.3	6347.9	6347.6	6346.8	6346.7	6341.6	6337.4	6333.0	6329.2
Kortes Reservoir Operations		Initial Content 4.7 Kaf					Operating Limits: Max 4.8 Kaf, 6142.73 Ft.					Min 1.7 Kaf, 6092.73 Ft.	
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Total Inflow	kaf	33.0	32.2	33.3	40.6	57.2	83.0	106.4	94.7	118.6	82.0	66.2	53.0
Total Inflow	cfs	537.	542.	542.	660.	995.	1350.	1789.	1540.	1993.	1333.	1077.	890.
Turbine Release	kaf	32.6	29.9	32.5	40.3	57.2	82.6	106.4	94.7	118.6	82.0	66.2	52.3
Spillway Release	kaf	0.4	2.3	0.8	0.3	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.7
Total Release	kaf	33.0	32.2	33.3	40.6	57.2	83.0	106.4	94.7	118.6	82.0	66.2	53.0
Total Release	cfs	537.	542.	542.	660.	995.	1349.	1788.	1539.	1993.	1332.	1076.	890.
Pathfinder Reservoir Operations		Initial Content 729.1 Kaf					Operating Limits: Max 1070.2 Kaf, 5852.49 Ft.					Min 31.4 Kaf, 5746.00 Ft.	
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Sweetwater Inflow	kaf	3.6	6.7	10.2	9.1	9.0	11.4	12.7	8.6	2.6	0.4	0.6	0.2
Kortes-Path Gain	kaf	-0.7	-4.6	-9.1	-5.7	-4.6	2.0	-1.7	0.0	-3.9	-2.2	2.8	-1.2
Inflow from Kortes	kaf	33.0	32.2	33.3	40.6	57.2	83.0	106.4	94.7	118.6	82.0	66.1	53.0
Total Inflow	kaf	35.9	34.3	34.4	44.0	61.6	96.3	117.4	103.2	117.3	80.1	69.5	52.0
Total Inflow	cfs	584.	577.	559.	716.	1070.	1566.	1973.	1679.	1971.	1302.	1131.	874.
Turbine Release	kaf	2.5	26.2	25.9	26.4	24.4	28.0	57.3	73.0	65.0	68.0	133.0	82.9
Jet flow Release	kaf	4.6	4.4	4.8	4.7	4.4	5.0	4.7	111.6	159.5	143.4	55.1	8.8
Spillway Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Release	kaf	7.2	30.6	30.7	31.2	28.8	33.0	62.0	184.6	224.5	211.3	188.1	91.7
Total Release	cfs	116.	515.	500.	507.	501.	537.	1043.	3003.	3772.	3437.	3059.	1541.
Evaporation	kaf	5.9	2.5	0.7	1.7	0.6	5.7	7.0	8.8	12.1	9.6	7.5	4.4
End-of-month content	kaf	751.9	753.2	756.2	767.3	799.4	857.0	905.4	815.2	696.0	555.1	429.0	384.9
End-of-month elevation	ft	5836.8	5836.9	5837.1	5837.7	5839.4	5842.4	5844.9	5840.3	5833.6	5824.3	5814.0	5809.8
Alcova Reservoir Operations		Initial Content 180.8 Kaf					Operating Limits: Max 184.4 Kaf, 5500.00 Ft.					Min 145.3 Kaf, 5483.12 Ft.	
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Total Inflow	kaf	7.2	30.6	30.7	31.2	28.8	33.0	62.0	184.6	224.5	211.3	188.1	91.7
Total Inflow	cfs	116	515	500	507	501	537	1043	3003	3772	3437	3059	1541
Turbine Release	kaf	30.4	29.9	31.0	29.2	0.0	30.5	40.1	166.1	208.6	190.3	171.3	81.0
Spillway Release	kaf	0.0	0.0	0.0	1.5	28.6	0.6	0.0	0.0	0.0	0.2	0.0	0.0
Casper Canal Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.4	13.8	19.1	15.5	9.8
Total Release	kaf	30.4	29.9	31.0	30.7	28.6	31.1	40.1	182.5	222.4	209.6	186.7	90.8
Total Release	cfs	494.	502.	505.	499.	497.	506.	673.	2968.	3738.	3408.	3036.	1526.
Evaporation	kaf	0.8	0.3	0.1	0.2	0.1	0.7	0.8	1.1	1.7	1.5	1.5	1.1
End-of-month content	kaf	156.7	157.1	156.7	157.0	157.1	158.3	179.4	180.5	180.8	181.1	181.0	180.8
End-of-month elevation	ft	5488.3	5488.5	5488.3	5488.4	5488.5	5489.0	5498.0	5498.4	5498.5	5498.6	5498.6	5498.5

Table 9 (Continued) Actual Reservoir Operations for Water Year 2012

NORTH PLATTE RIVER OPERATING PLAN Year Beginning Oct 2011													
Gray Reef Reservoir Operations			Initial Content		1.8 Kaf		Operating Limits: Max				1.1 Kaf, 5327.42 Ft.		
-----							Min				0.0 Kaf, 5306.00 Ft.		
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Total Inflow	kaf	30.4	29.9	31.0	30.7	28.6	31.1	40.1	166.1	208.6	190.5	171.3	81.0
Total Inflow	cfs	494.	502.	505.	499.	497.	506.	673.	2701.	3506.	3098.	2785.	1361.
Total Release	kaf	30.9	29.8	30.8	30.9	28.6	30.7	40.0	166.0	208.5	190.3	171.2	81.2
Total Release	cfs	502.	501.	502.	502.	497.	499.	672.	2699.	3504.	3096.	2784.	1364.
Glendo Reservoir Operations			Initial Content		219.1 Kaf		Operating Limits: Max				789.4 Kaf, 4653.00 Ft.		
-----							Min				63.2 Kaf, 4570.02 Ft.		
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Alcova-Glendo Gain	kaf	18.2	14.6	10.3	13.0	12.8	34.7	38.9	5.8	2.7	-0.5	-1.4	8.2
Infl from Gray Reef	kaf	29.0	27.8	29.4	30.1	27.9	22.2	30.2	153.0	204.1	196.5	169.1	89.6
Total Inflow	kaf	47.2	42.4	39.7	43.1	40.6	56.9	69.1	158.7	206.8	195.9	167.8	97.8
Total Inflow	cfs	767.	712.	645.	701.	706.	925.	1161.	2582.	3476.	3187.	2728.	1643.
Turbine Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	36.7	236.2	200.0	225.5	227.4	76.8
Low Flow Release	kaf	1.6	1.6	1.7	1.7	1.5	1.7	1.5	1.5	1.5	1.5	1.5	1.5
Spillway Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Irrigation Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	8.4	3.4	17.7	84.5	74.6	6.9
Total Release	kaf	1.6	1.6	1.7	1.7	1.5	1.7	46.6	241.1	219.2	311.5	303.5	85.2
Total Release	cfs	26.	28.	28.	27.	27.	28.	783.	3920.	3684.	5066.	4936.	1432.
Evaporation	kaf	2.1	0.9	0.3	0.9	0.6	3.1	4.6	4.6	7.0	5.9	3.6	1.9
End-of-month content	kaf	262.6	302.5	340.1	380.6	419.1	471.2	489.1	402.1	382.8	261.3	122.0	115.5
End-of-month elevation	ft	4608.5	4613.6	4618.0	4622.4	4626.2	4631.1	4632.6	4624.6	4622.6	4608.4	4585.4	4587.7
Guernsey Reservoir Operations			Initial Content		0.5 Kaf		Operating Limits: Max				45.6 Kaf, 4419.99 Ft.		
-----							Min				0.0 Kaf, 4370.00 Ft.		
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Glendo-Guerns Gain	kaf	3.5	1.7	1.4	1.5	1.6	2.0	-1.0	4.4	-1.4	-3.9	-3.6	2.1
Inflow from Glendo	kaf	1.6	1.6	1.7	1.7	1.5	1.7	46.6	241.1	219.2	311.5	303.5	85.2
Total Inflow	kaf	5.1	3.4	3.1	3.2	3.1	3.7	45.6	245.4	217.8	307.6	299.9	87.4
Total Inflow	cfs	84.	57.	51.	52.	54.	60.	766.	3992.	3659.	5002.	4877.	1468.
Turbine Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	38.0	62.6	57.3	31.1	57.3	33.3
Seepage	kaf	0.4	0.3	0.4	0.6	0.9	1.1	0.7	0.7	0.7	0.7	0.5	0.1
Spillway Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	3.8	172.6	159.9	275.9	239.6	81.3
Total Release	kaf	0.4	0.3	0.4	0.6	0.9	1.1	42.5	235.9	217.9	307.7	297.4	114.7
Total Release	cfs	7.	6.	6.	10.	15.	17.	715.	3836.	3662.	5004.	4836.	1927.
Evaporation	kaf	0.1	0.1	0.0	0.1	0.1	0.4	0.6	0.8	1.3	0.6	1.1	0.5
End-of-month content	kaf	5.0	8.0	10.8	13.2	15.4	17.6	20.0	28.8	27.4	26.7	28.0	0.3
End-of-month elevation	ft	4394.5	4398.3	4401.0	4403.0	4404.6	4406.0	4407.6	4412.3	4411.6	4411.2	4411.9	4379.0

Flood Benefits for Water Year 2012

Because of the operation of dams on the North Platte River, The Corps of Engineers, Omaha District, estimates that in water year 2012 flood damages of \$95,800 were prevented. Table 10 is a breakdown of flood damage prevented by Dams.

Table 10 Flood Damage Prevented by Dams for Water Year 2012 (on the North Platte River Basin System)

DAMS	WATER YEAR 2012	PRIOR TO 2012 ²	ACCUMULATED TOTAL ¹
SEMINOE	\$0	\$42,465,300	\$42,465,300
PATHFINDER	\$0	\$14,130,100	\$14,130,100
ALCOVA	\$0	\$1,059,500	\$1,059,500
GLENDO	\$95,800	\$90,466,600	\$90,562,400
GUERNSEY	\$0	\$434,000	\$434,000
TOTAL	\$95,800	\$148,555,500	\$148,651,300

¹ This data is received from the Army Corps of Engineers Omaha District Office and is revised every October.

² The period of assessment is 1970 through 2012 except for Glendo Dam, which is 1965 through 2012.

Generation for Water Year 2012

Power generation was above average for Alcova and Glendo powerplants in the North Platte River Basin in water year 2012. See Table 11 for a breakdown of generation by powerplant.

Table 11 Power Generation Water Year 2012

Powerplant	Gross generation ¹ (GWh)	Percent of Average ²
Seminole	118.1	88
Kortes	127.8	92
Fremont Canyon	179.5	79
Alcova	132.5	115
Glendo	91.4	111
Guernsey	18.5	99
Total Basin	667.8	93

¹ Generation is reported in giga-watt hours (GWh).

² 30 year average (1982-2011)

The number of generation units at each powerplant, their capacity and output at rated head is shown in Table 12.

Table 12 North Platte River Powerplant Data

Powerplant	Number of Units	Capacity Each Unit (kw)	Total ² Installed Capacity (kw)	Normal Operating Head (feet)	Output At rated Head (cfs)	30 year Average ¹ (GWh)
Seminole	3	17,000	51,000	97-227	4,050	133.5
Kortes	3	12,000	36,000	192-204	2,910	139.3
Fremont Canyon	2	33,400	66,800	247-363	3,080	227.2
Alcova	2	19,500	39,000	153-165	4,100	115.1
Glendo	2	19,000	38,000	73-156	3,400	82.3
Guernsey	2	3,200	6,400	89-91	1,340	18.7
Total	14	---	237,200	---	---	716.1

¹ 1982-2011

² Installed capacity from Monthly Report of Power Operations-Powerplant (Form PO&M 59)

PROPOSED OPERATIONS FOR WATER YEAR 2013

Three operation studies were developed for the System to establish an AOP for water year 2013. Each of the studies conformed to the established operating criteria but used different inflow conditions and different demand conditions.

The three inflow conditions were determined from a statistical analysis of historic inflows and were labeled reasonable minimum, reasonable maximum, and most probable inflow estimates. Reservoir inflow during water year 2013 has a one-in-ten chance of being less than the reasonable minimum, and a one-in-ten chance of exceeding the reasonable maximum. Statistically, inflows in 2013 will have an eight-in-ten chance of falling between the two extremes. The most probable inflow is based on long-term averages and approximates a 50 percent chance of occurrence. The three studies for water year 2013 are summarized numerically in Tables 15, 16, and 17.

The AOP as developed and reflected in the three studies provides the flexibility to adjust operations as conditions change during the water year. Forecasts of the April-July reservoir inflow will be made at the beginning of each month for February through May. Projected operating schedules will be adjusted, as required, throughout the water year as changes occur in the forecasted inflows, irrigation demands, maintenance schedules, and power loads.

The total storage in mainstem reservoirs on the North Platte River in Wyoming (including Kortes Reservoir and Gray Reef Reservoir) was 1,253,015 AF at the beginning of the water year 2013. This amount was 87 percent of the 30 year average (1982-2011) and 45 percent of capacity.

Seminole Reservoir

Most Probable Condition - 2013

October through March -- Seminole Reservoir had a storage of 565,363 AF at the beginning of water year 2012, which is 90 percent of the 30-year average and 56 percent of capacity. Planned turbine releases from Seminole Reservoir are approximately 530 cfs for October through March. Reservoir storage would decrease to about 513,600 AF by March 31. These releases are projected based on an estimated Seminole inflow for the October through March period of 146,900 AF. The planned Kortes release of 530 cfs for October through March is required to maintain a minimum flow of at least 500 cfs in the Miracle Mile reach of the river.

April through September -- Turbine releases are expected to be 850 cfs for April then average 2,250 cfs for May through August, then average approximately 1,450 cfs in September. There is no expected bypass of water through the jet flow gates in water year 2013. The total release from the reservoir during the April to September period will be scheduled through the power generators to meet downstream requirements. With most probable inflow, storage will reach a maximum of 853,500 AF by the end of June. Projected carryover storage of about 585,400 AF at the end of the water year would be 94 percent of average and 58 percent of capacity.

Reasonable Minimum Condition - 2013

October through March -- Planned water release for this period under a reasonable minimum inflow condition will be the same as in the most probable condition at approximately 530 cfs. A release of at least 500 cfs is required to maintain the minimum flow in the Miracle Mile reach of the river. Under this condition, inflows are predicted to be 129,800 AF for the period, which is 17,100 AF less than the most probable condition. The March 31 reservoir content is expected to be approximately 496,500 AF under these conditions.

April through September -- Seminole water releases will be at 1450 cfs for April, increasing to 1,550 cfs for May through August in order to meet irrigation requirements and provide increased power production, and decreasing to 610 cfs for September. Under a minimum condition the June content will be approximately 537,600 AF, and the water year will end with a content of 350,800 AF which is 57 percent of average and 34 percent of capacity.

Reasonable Maximum Condition - 2013

October through March -- Planned water releases for this period under a reasonable maximum inflow condition are similar to the most probable condition as water is moved downstream to generate power and make room in Seminole Reservoir for spring runoff. Although inflows to Seminole Reservoir are higher under these conditions, actual changes in winter operations are made gradually until it is evident that the inflow quantities being experienced are showing a trend towards the reasonable maximum inflows for the water year.

October through March inflows under this condition would be 198,000 AF, which is 51,100 AF more than the most probable runoff condition. The reservoir content would increase from 536,100 AF at the end of March to 980,000 AF by the end of June under these conditions.

April through September -- Seminole Reservoir release for April and May will be 3,500 cfs, then releases will increase to about 3,650 cfs in June, and decrease in July to 3,300 cfs, then 1,500 cfs in August, and finally 1,200 cfs in September. Inflows for the April through July period will be 1,318,100 AF, which is 545,400 AF more than the most probable runoff condition. Seminole Reservoir will reach its maximum end of month content for the year in July with approximately 980,900 AF in storage. This plan of operation would result in an end of year carryover storage of 850,000 AF, which would be 137 percent of average and 84 percent of capacity. Figure 12 depicts a comparison of Minimum, Most Probable, and Maximum Seminole Inflows. Figure 13 depicts a comparison of Minimum, Most Probable, and Maximum Seminole Storage.

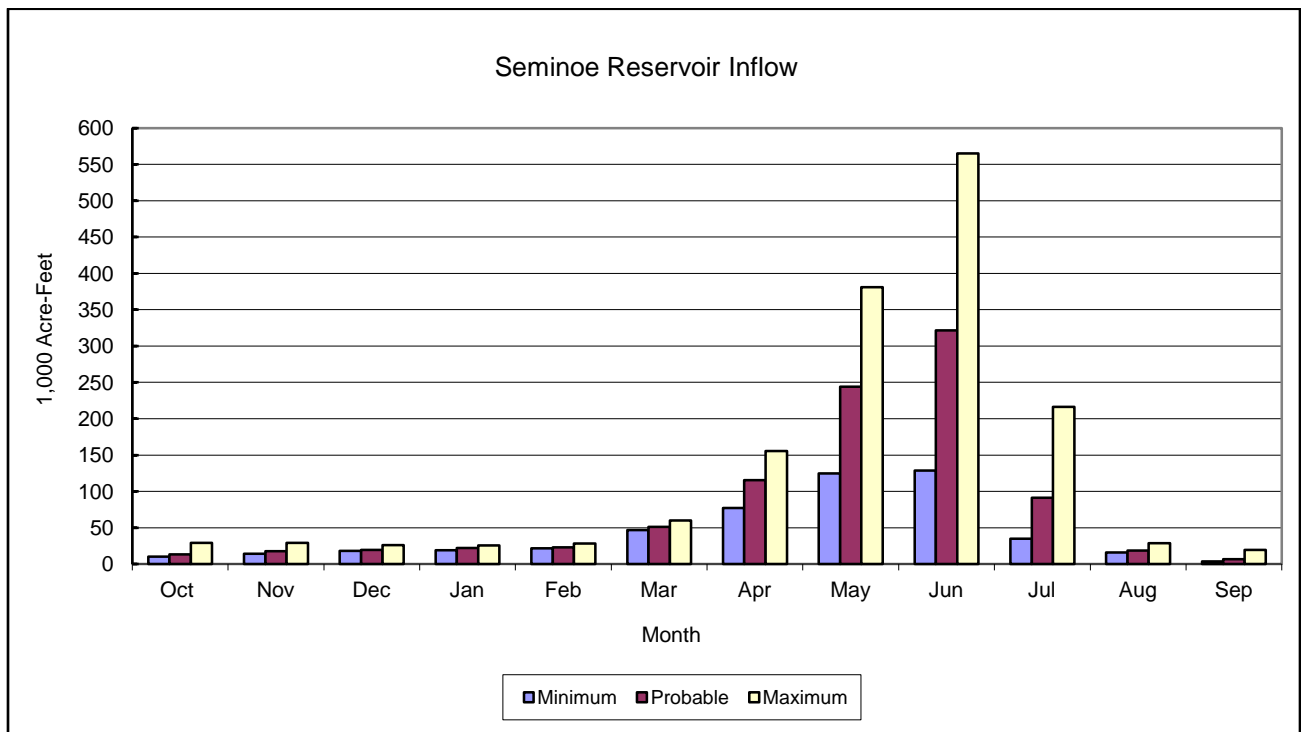


Figure 12 Seminole Reservoir Inflow (Predicted for Water Year 2013)

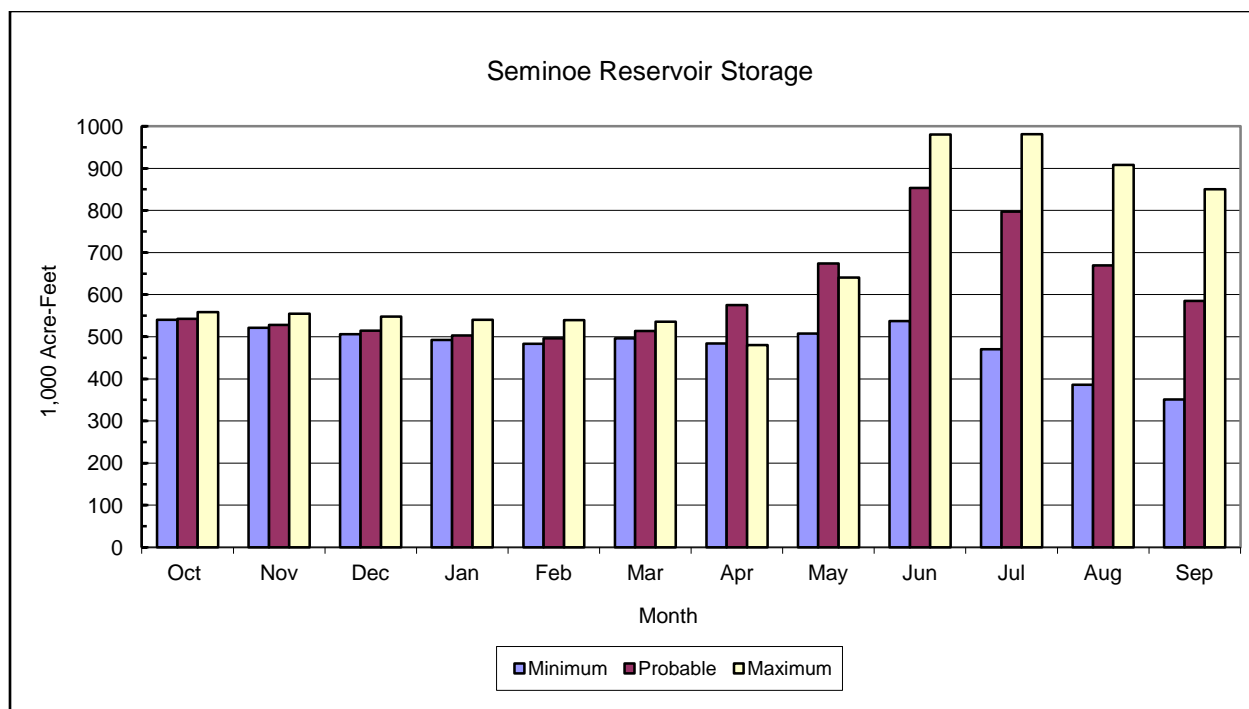


Figure 13 Seminole Reservoir Storage (Predicted for Water Year 2013)

Pathfinder Reservoir

Most Probable Condition - 2013

October through March -- Pathfinder Reservoir had a storage of 384,869 AF at the beginning of water year 2012, which is 76 percent of the 30 year average and 36 percent of capacity. Under this condition, gains to the river between Kortes Dam and Pathfinder Dam, including the Sweetwater River, are expected to be 26,400 AF for the October-March period under the most probable inflow conditions. Fremont Canyon Powerplant releases will be reduced during October to allow Alcova Reservoir water surface level to be lowered to 5488.0 ± 1.0 foot, which is the normal elevation range for winter operation. After the Alcova winter operating range is reached, releases from Pathfinder Reservoir will be adjusted to meet Gray Reef Reservoir releases and maintain the Alcova Reservoir content between 153,800 and 158,300 AF. Pathfinder Reservoir storage is projected to be about 426,500 AF at the end of March.

April through September -- Pathfinder Reservoir storage will reach a maximum content of about 461,300 AF by the end of June and be drawn down to a storage content of about 409,700 AF by the end of the water year, which would be 81 percent of average. River gain between Kortes and Pathfinder Reservoirs, including the Sweetwater River, is estimated at about 65,700 AF for the April-July period under most probable inflow conditions. In April, Fremont Canyon Powerplant releases will be coordinated with Alcova releases to refill Alcova Reservoir to its normal summer operating range of 5498 ± 1 foot.

April through September -- Fremont Canyon power releases will be scheduled to meet downstream irrigation deliveries and maintain Alcova Reservoir within the summer operating range. Water releases will be increased in April to approximately 1,600 cfs and then be increased to approximately 2,000 cfs for May and June, then 2,450 for July and August. Releases will be reduced in September to approximately 1,500 cfs.

Reasonable Minimum Condition - 2013

October through March -- Water releases for this period under a reasonable minimum inflow condition would be the same as in the most probable condition. Under this condition, gains to the river between Kortes Dam and Pathfinder Dam, including the Sweetwater River, are expected to be 11,800 AF for the October-March period under the minimum inflow conditions. Pathfinder Reservoir storage will reach about 412,000 AF by the end of March. Fremont Canyon Powerplant releases for the period will be scheduled to maintain approximately 156,000 AF of water in Alcova Reservoir.

April through September -- River gains between Kortes Dam and Pathfinder Reservoir, including the Sweetwater River, are estimated at about 27,000 AF for the April-July period under reasonable minimum inflow conditions. In April, releases will be coordinated with Alcova releases to refill Alcova Reservoir to its normal summer operating range of 5498 ft \pm 1 foot by the end of April.

April through September -- Fremont Canyon power releases will be scheduled to meet Kendrick Project and downstream irrigation deliveries and maintain a storage content of approximately 179,400 AF in Alcova Reservoir. The highest summer releases will be approximately 1,900 cfs, during July, and then reduced as irrigation demands drop off to end the water year at approximately 1,200 cfs during September. If reasonable minimum runoff develops, the reservoir content at the end of the water year will be about 310,100 AF, which would be 62 percent of average and 29 percent of capacity.

Reasonable Maximum Condition - 2013

October through March -- Water releases for this period under a reasonable maximum inflow condition would be similar to the most probable condition. Under this condition, gains between Kortes Dam and Pathfinder Dam would be expected to be 42,200 AF for the period. Pathfinder Reservoir content increases through this period from 412,500 AF at the end of October to 471,700 AF by the end of March.

April through September -- In April, water releases from Fremont Canyon Powerplant will be increased as Alcova Reservoir is refilled to water surface elevation 5498 \pm 1 foot. The rate of release will be increased through the summer as needed to meet downstream irrigation demands. Pathfinder Reservoir would reach a maximum content of 946,200 AF during July. Releases will increase to approximately 1,300 cfs in April and May, then increase to 2,800 cfs for June through August before declining to 2,200 cfs in September.

The Pathfinder Reservoir end of year storage content is projected to be about 800,000 AF, which would be 159 percent of average, and 75 percent of capacity.

Under all three possible inflow conditions, a constant release of 75 cfs is planned from the Pathfinder Dam outlet works which will provide the necessary water to maintain a year round fishery in the North Platte River below Pathfinder Reservoir. The maximum plan will require a bypass through the jet flow gates below Pathfinder Dam.

Figure 14 depicts a comparison of Minimum, Most Probable, and Maximum river gains from Kortes Dam to Pathfinder Reservoir. Figure 15 depicts a comparison of Minimum, Most Probable, and Maximum Pathfinder Storage.

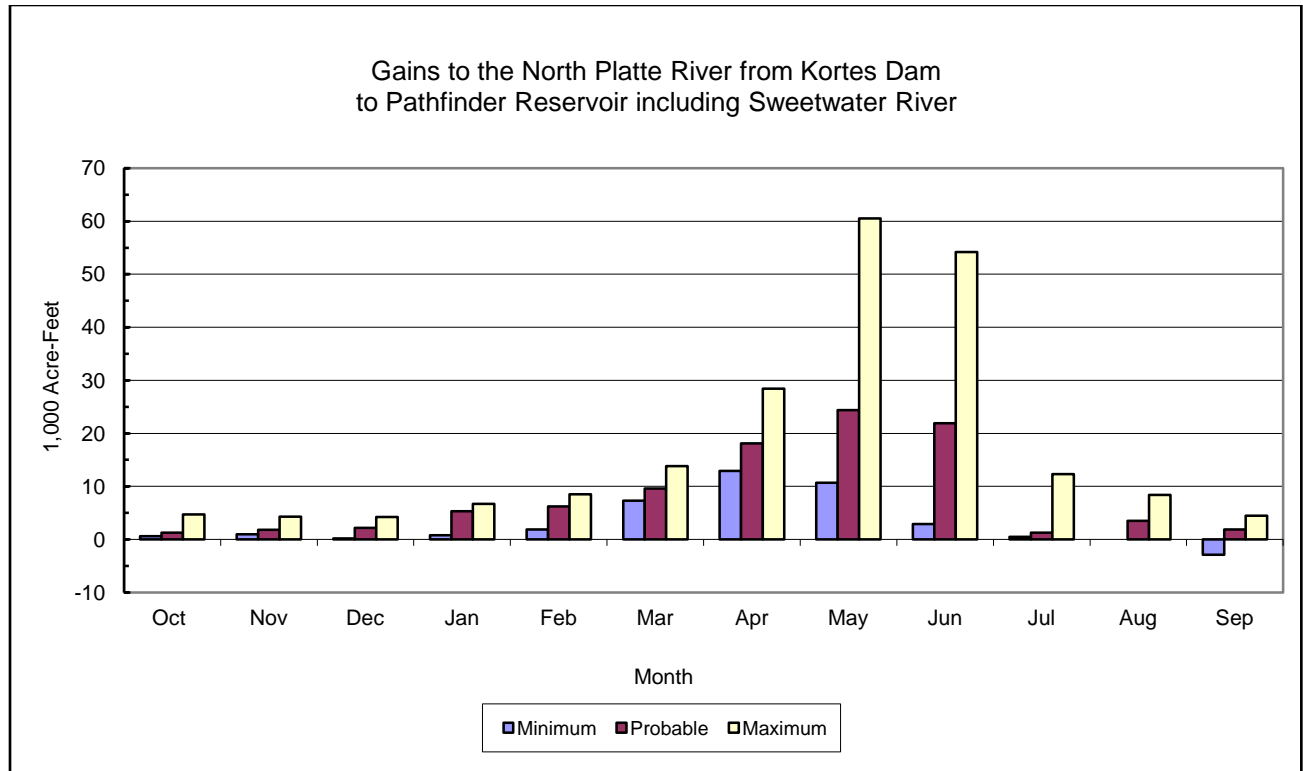


Figure 14 Gains to the North Platte River from Kortes Dam to Pathfinder Reservoir (Predicted for Water Year 2013)

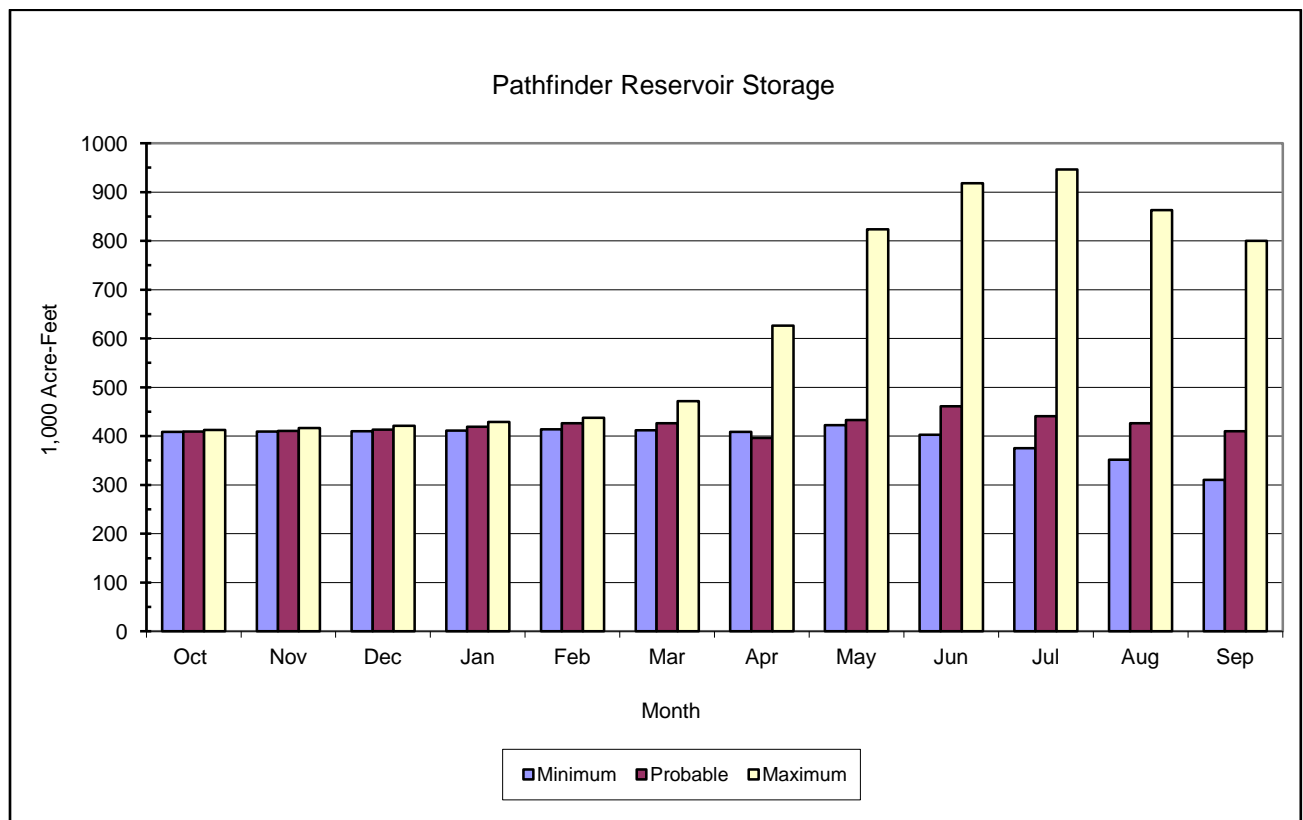


Figure 15 Pathfinder Reservoir Storage (Predicted for Water Year 2013)

Alcova Reservoir

Most Probable Condition - 2013

October through March -- During October, Alcova Reservoir will be drawn down to the normal winter operating range of 5488.0 ± 1 foot and will be maintained there through March. October through February releases will be maintained at approximately 500 cfs for production of power, maintenance of fishery flows, pollution abatement, and transfer of water to Glendo Reservoir in preparation for meeting downstream irrigation demands during the coming irrigation season. Provisions have been made in the plan to increase the releases from Alcova during March for a flushing flow below Gray Reef Reservoir.

April through September -- During April, the reservoir will be refilled to water surface elevation 5,498 feet (179,400 AF). This level will be maintained within ± 1 foot to provide the necessary water surface elevation to make irrigation deliveries to Casper Canal and for recreational purposes. About 60,000 AF of water are scheduled to be delivered during the May-September period to meet Kendrick Project irrigation requirements. In addition April releases to the river are scheduled to be approximately 71,500 AF and May-September releases to the river from Alcova Reservoir will total approximately 578,300 AF which will be re-regulated in Gray Reef Reservoir.

Reasonable Minimum Condition - 2013

October through September -- Operation of Alcova Reservoir would be the same as under the most probable condition, with about 60,000 AF of water are scheduled to be delivered during the May-September period to meet Kendrick Project irrigation requirements. However, April releases are scheduled to be approximately 74,800 AF, and May-September releases to the North Platte River from Alcova Reservoir will total approximately 432,300 AF. Water released from Alcova Reservoir will be re-regulated in Gray Reef Reservoir.

Reasonable Maximum Condition - 2013

October through September -- Operation of Alcova Reservoir would be the same as under the most probable condition, with about 60,000 AF of water are scheduled to be delivered during the May-September period to meet Kendrick Project irrigation requirements. However, April releases would be approximately 53,600 AF, and May-September releases to the North Platte River from Alcova Reservoir will total approximately 646,500 AF. Figure 16 depicts a comparison of Minimum, Most Probable, and Maximum Alcova Storage.

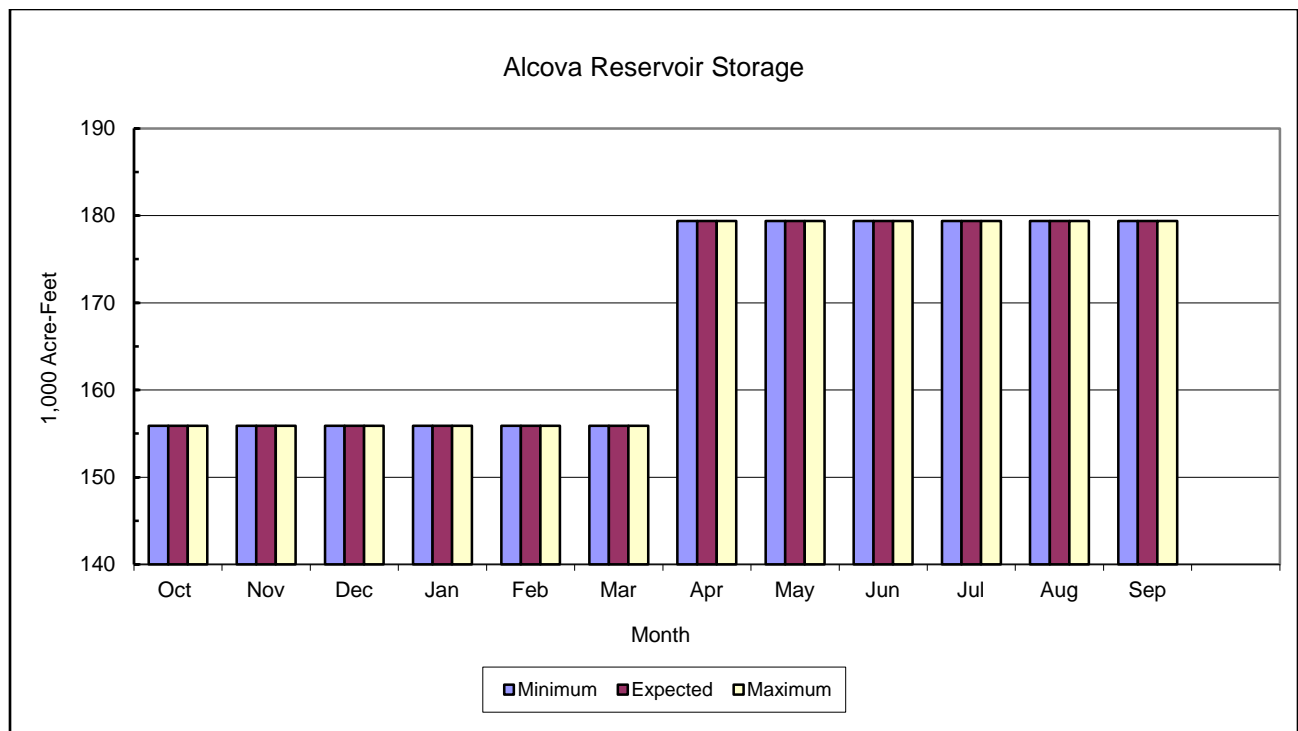


Figure 16 Alcova Reservoir Storage (Predicted for Water Year 2013)

Gray Reef Reservoir

Most Probable Condition - 2013

October through March -- Releases October through February from Gray Reef Dam will be maintained at approximately 500 cfs. This will result in a winter river level the same as last year. The 30-year average monthly flow below Gray Reef ranges between 610 cfs and 910 cfs for the months of October through March.

April through September -- Releases from Gray Reef Reservoir will increase to 1,200 cfs in April, 1,800 cfs in May and June, and approximately 2,200 cfs in the months of July and August. The releases will be decreased to approximately 1,500 cfs in September as project irrigation water is moved downstream.

Reasonable Minimum Condition - 2013

October through March -- Operation of Gray Reef Reservoir would be the same as under the most probable condition through March.

April through September -- Releases from Gray Reef Reservoir will be approximately 1,250 cfs in April and May, increase to 1,600 cfs for the months of June through August. The releases will be decreased to 1,100 cfs in September as project irrigation water is moved downstream. These predicted flows may be redistributed as the irrigators adjust their use of water from storage.

Reasonable Maximum Condition - 2013

October through March -- Operation of Gray Reef Reservoir would be the same as under the most probable condition through March.

April through September -- A release of 900 cfs will be started in April, then increase to 1,000 cfs in May, and increase further to 2,550 cfs for the months of June through August. Releases will be decreased to approximately 2,000 cfs in September.

Glendo and Guernsey Reservoirs

Most Probable Condition - 2013

October through March -- Glendo Reservoir had a storage of 115,512 AF at the beginning of water year 2013, which is 94 percent of average and 23 percent of capacity. With storage of North Platte Project water released from Alcova and with North Platte River gains below Alcova Dam estimated to be normal, Glendo Reservoir storage will increase to about 370,900 AF by the end of March, which will be 93 percent of average and 75 percent of capacity.

A new area capacity table for Glendo Reservoir, based upon a recent silt survey was applied on September 30, 2012. This resulted in a reduced capacity with the top of active conservation being 492,022 AF at elevation 4635 feet.

The Glendo Dam outlet works low flow valve was shut off in late September 2012, to reduce inflows into Guernsey Reservoir in order to maintain the level of Guernsey Reservoir below the 4400 ft elevation required for Safety of Dams work at Guernsey Dam.

Guernsey Reservoir had a storage of 274 AF at the beginning of water year 2013. Natural inflow will be stored during the winter which is expected to increase storage to 5,800 AF by March 31.

April through September -- during April, releases from Glendo Reservoir will be scheduled to refill Guernsey Reservoir. Maximum Glendo Reservoir storage will be about 483,800 AF by the end of May which is approximately 0.7 feet below a full reservoir at elevation of 4634.3 ft. Releases from Glendo Reservoir during the May through September period will be based upon meeting irrigation demand.

Guernsey Reservoir content will be maintained near 9,700 AF during May and June. A possible silt run in July will require close coordination of Glendo and Guernsey Reservoirs release schedules as Guernsey Reservoir is drawn down to about 1,000 AF in July during the silt run and refilled to about 9,700 AF following the silt run. Releases for delivery of irrigation water will draw down Glendo Reservoir to about 100,000 AF by the end of September. During September, Guernsey Reservoir will be lowered to approximately 0 AF.

Reasonable Minimum Condition - 2013

October through March -- Guernsey Reservoir had a storage of 274 AF at the beginning of water year 2013. Under the reasonable minimum inflow conditions, the natural inflow will be stored during the winter which will increase the Guernsey Reservoir content to 5,100 AF by March 31. Glendo Reservoir content will increase from the carryover storage of 115,512 AF to a March 31 content of 343,300 AF.

April through September -- During April releases from Glendo Reservoir will be scheduled to refill Guernsey Reservoir. Glendo Reservoir storage will increase to about 492,000 AF by the end of May. This level represents a full Reservoir at elevation 4635 ft.

The operation of Glendo and Guernsey Reservoirs will be based upon making full irrigation deliveries to the Glendo Unit and approximately 100 percent of normal deliveries to North Platte Project. The total combined North Platte System reservoir storage would be approximately 334,200 AF lower than most probable conditions by the end of the water year under reasonable minimum water supply conditions.

Guernsey Reservoir content will be maintained near 9,700 AF during May and June. A possible silt run in July will require close coordination of Glendo and Guernsey Reservoirs release schedules as Guernsey Reservoir is drawn down to about 1,000 AF in July during the silt run and refilled to about 9,700 AF following the silt run. September releases will be made to meet irrigation requirements leaving 100,000 AF of water in Glendo Reservoir at year's end. Guernsey Reservoir content on September 30 will be 0 AF under minimum conditions.

Reasonable Maximum Condition - 2013

October through March -- Guernsey Reservoir had a storage of 274 AF at the beginning of water year 2013. Under the reasonable maximum inflow conditions, the natural inflow will be stored during the winter, which will increase the reservoir content to 6,800 AF by March 31. Glendo Reservoir content is expected to increase from the starting content of 115,512 AF to an end of March content of 378,900 AF.

April through September -- Under maximum conditions, re-regulation water would be released as natural flow to meet irrigation demands until the supply is used as required. A total of 1,246,500 AF of water would be released from the system starting April 2013. Guernsey Reservoir content would reach a maximum end of month content of 9,700 AF in April and remain as such through August. Under reasonable maximum conditions Glendo Reservoir will increase to a peak storage of 492,000 AF in May. A possible silt run in July will require close coordination of Glendo and Guernsey Reservoirs release schedules as Guernsey Reservoir is drawn down to about 1,000 AF and refilled to 9,700 AF by the end of the month. During September, releases will be scheduled to lower Guernsey Reservoir to approximately 0 AF.

The operating plan shown assumes no downstream flow restrictions and normal irrigation deliveries. Glendo storage is projected to decrease to about 437,600 AF by the end of July and will be about 163,600 AF by the end of September. This end of year Glendo storage would be 133 percent of average and the Total System storage at the end of the water year would be 2,000,000 AF, 139 percent of average which includes about 6,200 AF of storage in Kortes and Gray Reef Reservoirs. Figure 17 depicts a comparison of Minimum, Most Probable, and Maximum river gains from Alcova Dam to Glendo Reservoir. Figure 18 depicts a comparison of Minimum, Most Probable, and Maximum Glendo Reservoir Storage.

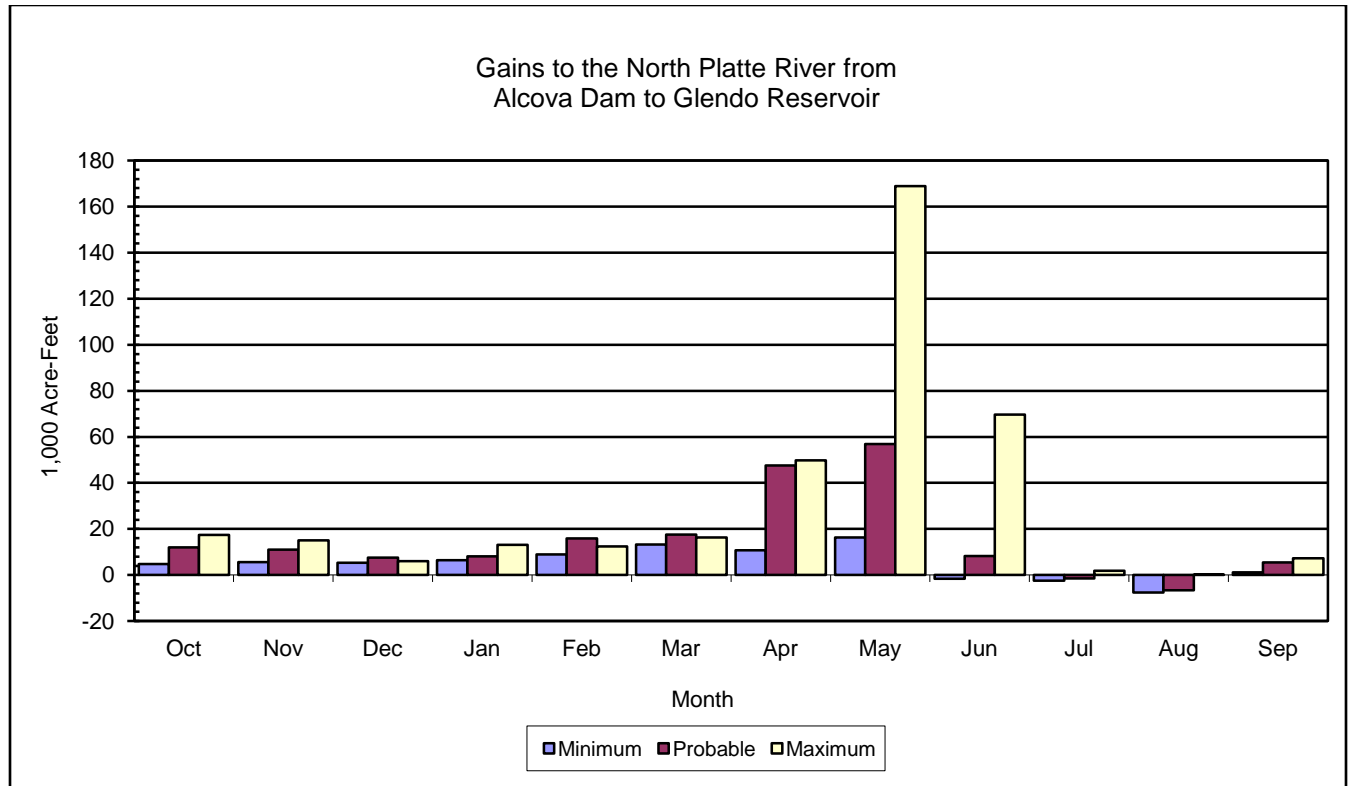


Figure 17 Gains to North Platte River from Alcova Dam to Glendo Reservoir (Predicted for Water Year 2013)

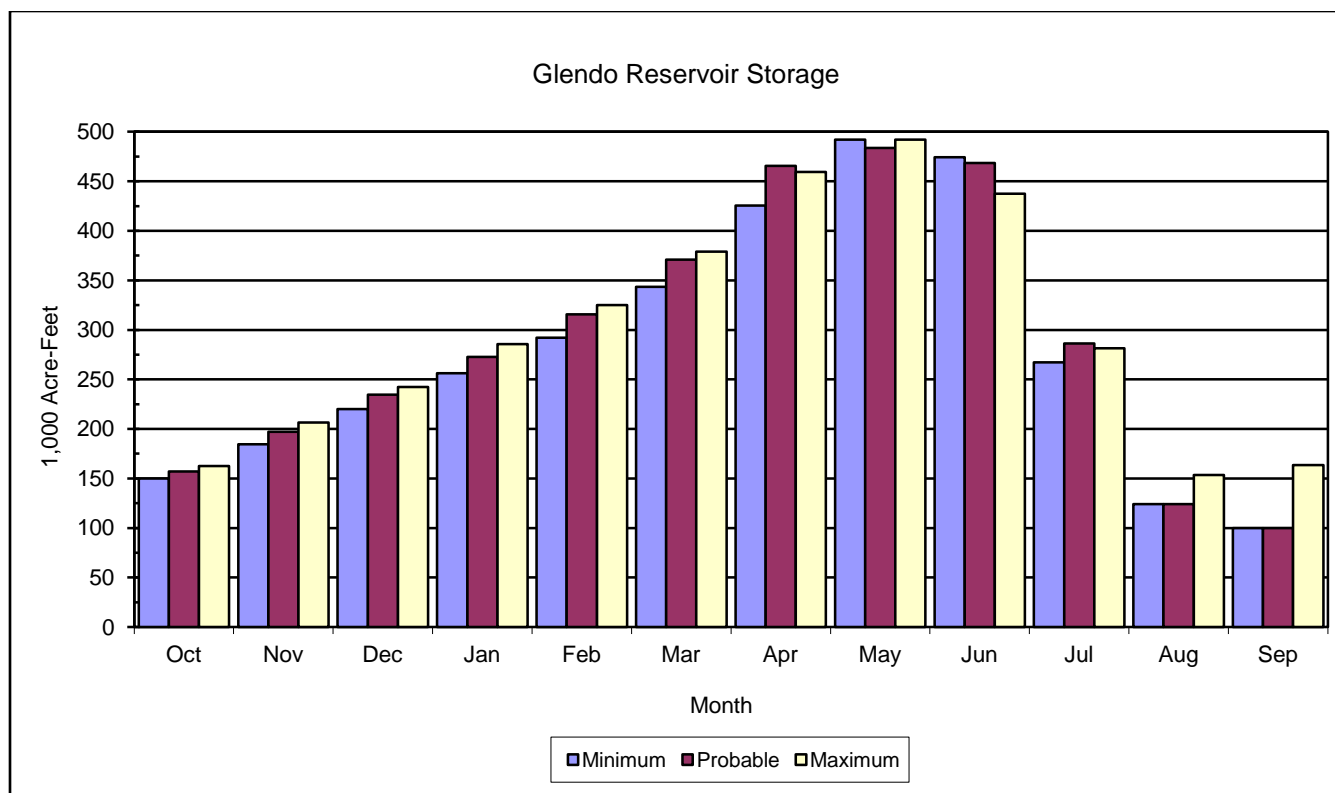


Figure 18 Glendo Reservoir Storage (Predicted for Water Year 2013)

Ownerships

Most Probable Condition - 2013

Stored water which is held in accounts for various entities is referred to as their ownership. At the close of water year 2013, the North Platte Project storage ownership is expected to be at 317,100 AF (76 percent of average); the Kendrick Project storage ownership is expected to be near 823,700 AF (93 percent of average). Glendo storage ownership at the end of water year 2013 is expected to be 132,400 AF (105 percent of average). The Kendrick Project Ownership will not accrue any water under the Most Probable condition. Only North Platte Guernsey Ownership will fill under most probable conditions.

Reasonable Minimum Condition - 2013

The North Platte Project storage ownership is expected to be at 10,000 AF (2 percent of average) at the close of water year 2013. The North Platte Project Ownership will not fill under minimum conditions. The Kendrick Project storage ownership is expected to be near 822,000 AF which is 93 percent of average at the close of the water year. The Kendrick Project ownership will not accrue any water under the reasonable minimum conditions. Glendo storage ownership is expected to be near 105,300 AF (84 percent of average) at the close of water year 2013 under the reasonable minimum runoff conditions.

Reasonable Maximum Condition - 2013

Under reasonable maximum conditions all storage water ownerships in the North Platte River System will fill during the water year 2013. About 264,500 AF will be captured in the reservoirs as re-regulation water in the North Platte System under maximum condition. The water in the operational/re-regulation water account will be released from the System as natural flow to meet irrigation demands. Figure 19 depicts a comparison of Minimum, Most Probable, and Maximum, Kendrick, North Platte Project, and Glendo Project Ownership.

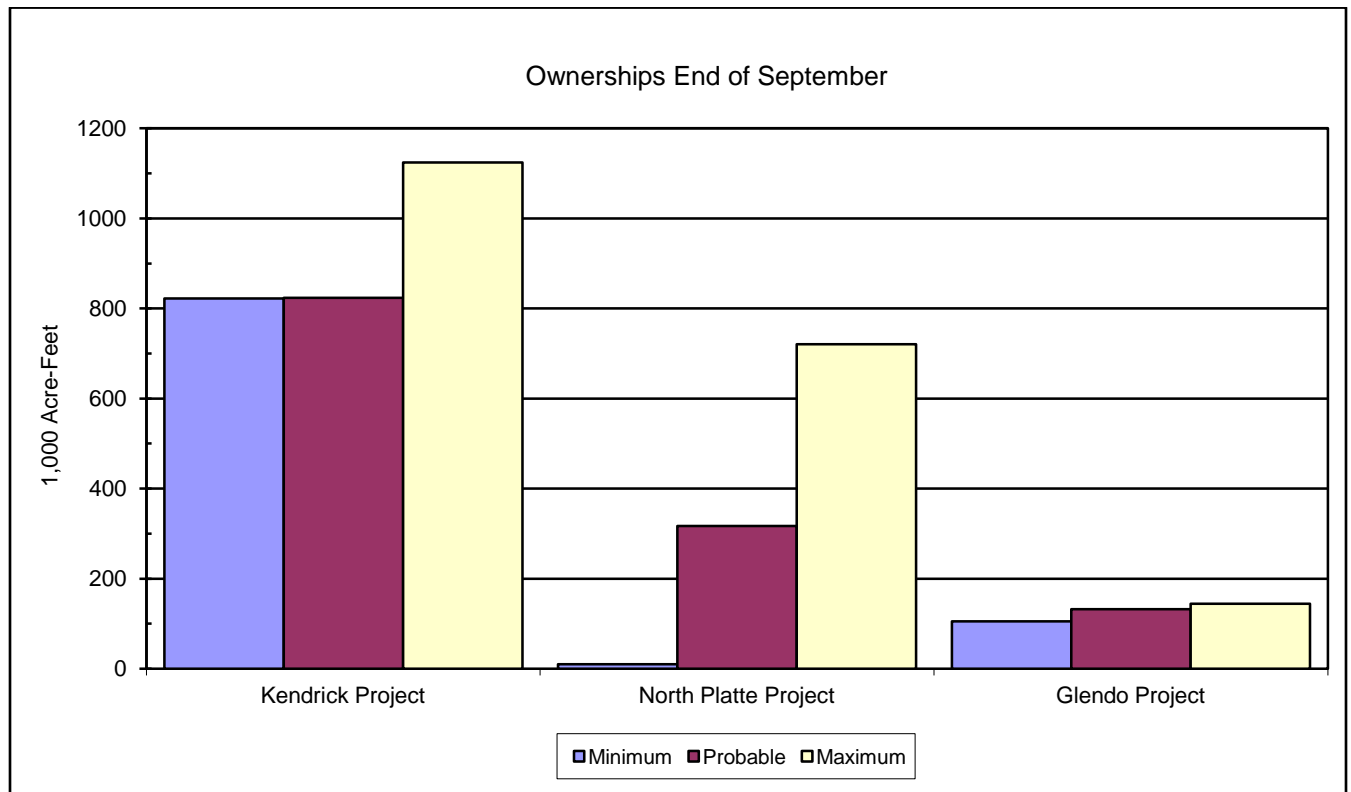


Figure 19 Ownerships at the End of September (Predicted for Water Year 2013)

Most Probable Generation Water Year 2013

The most probable power generation for water year 2013 will be above average for Seminoe, Kortess, and Alcova Powerplants on the North Platte River Basin. See Table 13 for a breakdown of generation by powerplant.

Table 13 Most Probable Power Generation Water Year 2013

Powerplant	Gross generation ¹ (GWh)	Percent of Average ²
Seminoe	145.7	109
Kortess	150.8	108
Fremont Canyon	198.2	88
Alcova	116.6	101
Glendo	82.7	99
Guernsey	17.0	90
Total Basin	710.9	99

¹ Gross generation is based on October 2012 storage and most probable inflow.

Gross generation is reported in giga-watt hours (GWh).

² 30 year average (1983-2012)

The Operation and Maintenance Division (O&M) creates a schedule of maintenance for all generating units. See Table 14 for the maintenance schedule for water year 2013. The O&M maintenance schedule is updated throughout the water year but only the October schedule is used for publication.

Table 14 Generating Unit Maintenance Schedule (October 2012 through September 2013)

<u>Facility and Unit No.</u>	<u>Scheduled Period</u>	<u>Description of Work</u>
Seminole Unit #1	03-04-13 through 04-07-13	Annual Maintenance
Seminole Unit #2	03-28-13 through 05-16-13	Annual Maintenance
Seminole Unit #3	12-27-11 through 02-16-13	Annual Maintenance
Kortes Unit #1	01-10-13 through 12-07-13	Annual Maintenance
Fremont Unit #1	10-11-12 through 04-26-13	Turbine Runner Replacement
Alcova Unit #1	12-07-12 through 02-14-13	Annual Maintenance
Alcova Unit #2	02-25-13 through 04-03-13	Annual Maintenance
Glendo Unit #2	11-06-12 through 11-27-12	Annual Maintenance
Guernsey Unit #1	12-09-12 through 02-25-13	Annual Maintenance
Guernsey Unit #2	02-04-13through 02-28-13	Annual Maintenance

Table 15 Most Probable Operating Plan for Water Year 2013

NPRAOP V1.1K 21-Mar-2003 Run: 4-Oct-2012 9:47

Page 1

Based on Most Probable April-July Inflow Estimates: Seminole 772.7 KAF/Sweetwater 48.7 KAF/Alcova-Glendo 111.2 KAF

NORTH PLATTE RIVER OPERATING PLAN
Year Beginning Oct 2012

HYDROLOGY OPERATIONS

Seminole Reservoir Operations		Initial Content 565.4 Kaf						Operating Limits: Max 1017.3 Kaf, 6357.00 Ft.					
								Min 31.7 Kaf, 6239.02 Ft.					
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Total Inflow	kaf	13.2	17.8	19.6	22.1	22.9	51.3	115.6	244.2	321.6	91.3	18.4	6.5
Total Inflow	cfs	215.	299.	319.	359.	412.	834.	1943.	3972.	5405.	1485.	299.	109.
Turbine Release	kaf	32.6	31.4	32.5	32.5	29.3	32.5	50.8	138.3	133.8	138.3	138.3	86.3
Jet flow Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Spillway Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Release	kaf	32.6	31.4	32.5	32.5	29.3	32.5	50.8	138.3	133.8	138.3	138.3	86.3
Total Release	cfs	530.	528.	529.	529.	528.	529.	854.	2249.	2249.	2249.	2249.	1450.
Evaporation	kaf	3.4	1.8	1.0	1.0	1.0	2.1	3.9	4.4	8.3	9.7	7.6	4.9
End-of-month content	kaf	542.9	527.8	514.3	503.2	496.1	513.6#	575.0*	674.0	853.5	796.9	669.8*	585.4*
End-of-month elevation	ft	6327.4	6326.2	6325.0	6324.1	6323.5	6325.0	6330.0	6337.2	6348.4	6345.1	6336.9	6330.8
Kortes Reservoir Operations		Initial Content 4.7 Kaf						Operating Limits: Max 4.8 Kaf, 6142.73 Ft.					
								Min 1.7 Kaf, 6092.73 Ft.					
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Total Inflow	kaf	32.6	31.4	32.5	32.5	29.3	32.5	50.8	138.3	133.8	138.3	138.3	86.3
Total Inflow	cfs	530.	528.	529.	529.	528.	529.	854.	2249.	2249.	2249.	2249.	1450.
Turbine Release	kaf	32.5	31.4	32.5	32.5	29.3	32.5	50.8	138.3	133.8	138.3	138.3	86.3
Spillway Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Release	kaf	32.5	31.4	32.5	32.5	29.3	32.5	50.8	138.3	133.8	138.3	138.3	86.3
Total Release	cfs	529.	528.	529.	529.	528.	529.	854.	2249.	2249.	2249.	2249.	1450.
Pathfinder Reservoir Operations		Initial Content 384.9 Kaf						Operating Limits: Max 1070.0 Kaf, 5852.48 Ft.					
								Min 31.4 Kaf, 5746.00 Ft.					
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Sweetwater Inflow	kaf	1.0	1.9	2.4	3.3	3.4	4.5	13.2	17.7	16.7	1.1	1.5	0.6
Kortes-Path Gain	kaf	0.3	-0.1	-0.2	2.0	2.8	5.1	4.9	6.7	5.2	0.2	2.0	1.3
Inflow from Kortes	kaf	32.5	31.4	32.5	32.5	29.3	32.5	50.8	138.3	133.8	138.3	138.3	86.3
Total Inflow	kaf	33.8	33.2	34.7	37.8	35.5	42.1	68.9	162.7	155.7	139.6	141.8	88.2
Total Inflow	cfs	550.	558.	564.	615.	639.	685.	1158.	2646.	2617.	2270.	2306.	1482.
Turbine Release	kaf	2.1	25.6	26.3	26.3	23.8	35.2	81.8	84.5	81.8	148.2	145.0	95.5
Jet flow Release	kaf	4.6	4.5	4.6	4.6	4.2	4.6	14.0	37.3	38.8	4.6	4.6	4.5
Spillway Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Release	kaf	6.7	30.1	30.9	30.9	28.0	39.8	95.8	121.8	120.6	152.8	149.6	100.0
Total Release	cfs	109.	506.	503.	503.	504.	647.	1610.	1981.	2027.	2485.	2433.	1681.
Evaporation	kaf	2.9	1.6	0.9	0.9	0.9	1.9	3.4	4.2	6.7	7.5	6.5	4.8
End-of-month content	kaf	409.1	410.6	413.5	419.5	426.1	426.5	396.2	432.9	461.3	440.6	426.3	409.7
End-of-month elevation	ft	5812.2	5812.3	5812.6	5813.1	5813.8	5813.8	5810.9	5814.4	5816.9	5815.1	5813.8	5812.2
Alcova Reservoir Operations		Initial Content 180.8 Kaf						Operating Limits: Max 184.4 Kaf, 5500.00 Ft.					
								Min 145.3 Kaf, 5483.12 Ft.					
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Total Inflow	kaf	6.7	30.1	30.9	30.9	28.0	39.8	95.8	121.8	120.6	152.8	149.6	100.0
Total Inflow	cfs	109.	506.	503.	503.	504.	647.	1610.	1981.	2027.	2485.	2433.	1681.
Turbine Release	kaf	30.9	29.8	30.7	30.7	27.8	39.4	71.5	110.8	107.2	134.2	134.2	91.9
Spillway Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Casper Canal Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	12.0	17.0	14.0	7.0
Total Release	kaf	30.9	29.8	30.7	30.7	27.8	39.4	71.5	120.8	119.2	151.2	148.2	98.9
Total Release	cfs	503.	501.	499.	499.	501.	641.	1202.	1965.	2003.	2459.	2410.	1662.
Evaporation	kaf	0.7	0.3	0.2	0.2	0.2	0.4	0.8	1.0	1.4	1.6	1.4	1.1
End-of-month content	kaf	155.9*	155.9*	155.9*	155.9*	155.9*	155.9*	179.4*	179.4*	179.4*	179.4*	179.4*	179.4*
End-of-month elevation	ft	5487.9	5487.9	5487.9	5487.9	5487.9	5487.9	5498.0	5498.0	5498.0	5498.0	5498.0	5498.0

Table 15 (Continued) Most Probable Operating Plan for Water Year 2013

NPRAOP V1.1K 21-Mar-2003 Run: 4-Oct-2012 9:47

Page 2

Based on Most Probable April-July Inflow Estimates: Seminole 772.7 KAF/Sweetwater 48.7 KAF/Alcova-Glendo 111.2 KAF

NORTH PLATTE RIVER OPERATING PLAN
Year Beginning Oct 2012

Gray Reef Reservoir Operations		Initial Content					Operating Limits: Max					1.7 Kaf, 5331.44 Ft.	
							Min					0.0 Kaf, 5306.00 Ft.	
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Total Inflow	kaf	30.9	29.8	30.7	30.7	27.8	39.4	71.5	110.8	107.2	134.2	134.2	91.9
Total Inflow	cfs	503.	501.	499.	499.	501.	641.	1202.	1802.	1802.	2183.	2183.	1544.
Total Release	kaf	30.7	29.8	30.7	30.7	27.8	39.4	71.4	110.7	107.1	134.1	134.1	91.8
Total Release	cfs	499.	501.	499.	499.	501.	641.	1200.	1800.	1800.	2181.	2181.	1543.
Glendo Reservoir Operations		Initial Content					Operating Limits: Max					763.0 Kaf, 4653.00 Ft.	
							Min					51.6 Kaf, 4570.01 Ft.	
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Alcova-Glendo Gain	kaf	12.0	11.0	7.5	8.1	15.9	17.6	47.6	56.9	8.2	-1.5	-6.6	5.4
Inflow from Gray Reef	kaf	30.7	29.8	30.7	30.7	27.8	39.4	71.4	110.7	107.1	134.1	134.1	91.8
Total Inflow	kaf	42.7	40.8	38.2	38.8	43.7	57.0	119.0	167.6	115.3	132.6	127.5	97.2
Total Inflow	cfs	694.	686.	621.	631.	787.	927.	2000.	2726.	1938.	2157.	2074.	1634.
Turbine Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	21.1	142.7	122.4	226.9	220.8	116.8
Low Flow Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.5	1.5	1.5	1.5	1.5
Spillway Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Irrigation Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	79.2	61.6	0.0
Total Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	21.4	144.2	123.9	307.6	283.9	118.3
Total Release	cfs	0.	0.	0.	0.	0.	0.	360.	2345.	2082.	5003.	4617.	1988.
Evaporation	kaf	1.1	0.8	0.7	0.7	0.8	1.7	3.1	5.0	6.8	6.5	4.0	1.9
End-of-month content	kaf	157.1	197.1	234.6	272.7	315.6*	370.9*	465.4*	483.8*	468.4*	286.4	124.0*	100.0*
End-of-month elevation	ft	4595.9	4602.4	4607.7	4612.7	4617.8	4623.7	4632.7	4634.3	4633.0	4614.3	4589.5	4584.1
Guernsey Reservoir Operations		Initial Content					Operating Limits: Max					45.6 Kaf, 4419.99 Ft.	
							Min					0.0 Kaf, 4370.00 Ft.	
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Glendo-Guerns Gain	kaf	1.6	1.4	1.6	1.5	1.1	0.6	5.8	8.6	2.7	-0.9	-3.4	2.2
Inflow from Glendo	kaf	0.0	0.0	0.0	0.0	0.0	0.0	21.4	144.2	123.9	307.6	283.9	118.3
Total Inflow	kaf	1.6	1.4	1.6	1.5	1.1	0.6	27.2	152.8	126.6	306.7	280.5	120.5
Total Inflow	cfs	26.	24.	26.	24.	20.	10.	457.	2485.	2128.	4988.	4562.	2025.
Turbine Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	22.6	59.6	57.7	59.6	59.6	59.9
Seepage	kaf	0.3	0.2	0.3	0.4	0.3	0.3	0.4	1.2	3.0	3.1	2.5	0.3
Spillway Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	91.6	65.3	243.3	217.9	69.8
Total Release	kaf	0.3	0.2	0.3	0.4	0.3	0.3	23.0	152.4	126.0	306.0	280.0	130.0
Total Release	cfs	5.	3.	5.	7.	5.	5.	387.	2479.	2117.	4977.	4554.	2185.
Evaporation	kaf	0.0	0.0	0.0	0.2	0.2	0.1	0.3	0.4	0.6	0.7	0.5	0.2
End-of-month content	kaf	1.6	2.8	4.1	5.0	5.6	5.8	9.7*	9.7*	9.7*	9.7*	9.7*	0.0
End-of-month elevation	ft	4386.6	4390.2	4393.0	4394.5	4395.4	4395.6	4400.0	4400.0	4400.0	4400.0	4400.0	4370.0
Physical EOM Cont	kaf	1273.1	1300.7	1328.9	1362.8	1405.8	1479.2	1632.2	1786.3	1978.8	1719.5	1415.7	1281.0

Table 15 (Continued) Most Probable Operating Plan for Water Year 2013

NPRAOP V1.1K 21-Mar-2003 Run: 4-Oct-2012 9:47

Page 3

Based on Most Probable April-July Inflow Estimates: Seminole 772.7 KAF/Sweetwater 48.7 KAF/Alcova-Glendo 111.2 KAF

NORTH PLATTE RIVER OPERATING PLAN
Year Beginning Oct 2012

OWNERSHIP OPERATIONS

North Platte Pathfinder Initial Ownership 155.2 Kaf, Accrued this water year: 0.0 Kaf

		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Net Accrual	kaf	13.5	19.0	21.4	26.9	28.6	59.7	131.2	199.9	219.7	0.0	0.0	0.0
Evaporation	kaf	1.0	0.6	0.4	0.5	0.5	1.2	2.5	4.2	8.7	11.5	8.2	4.0
Deliv fm Ownership	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	161.2	263.1	110.0
End-of-month Ownership	kaf	168.7	187.7	209.1	236.0	264.6	324.3	455.5	655.4	875.1	702.4	431.1	317.1

North Platte Guernsey Initial Ownership 0.0 Kaf, Accrued this water year: 0.0 Kaf

		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Net Accrual	kaf	0.0	0.0	8.8	9.2	16.7	10.3	0.0	0.0	0.0	0.0	0.0	0.0
Evaporation/Seepage	kaf	0.0	0.0	0.3	0.4	0.3	0.4	0.4	0.4	0.6	0.6	0.0	0.0
Deliv fm Ownership	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43.0	0.0	0.0
End-of-month Ownership	kaf	0.0	0.0	8.8	18.0	34.7	45.0	44.6	44.2	43.6	0.0	0.0	0.0

Inland Lakes Initial Ownership 0.0 Kaf, Accrued this water year: 0.0 Kaf

		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Net Accrual	kaf	13.3	12.2	0.0	0.0	0.0	0.0	20.5	0.0	0.0	0.0	0.0	0.0
Evaporation/Seepage	kaf	0.3	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.0	0.0	0.0	0.0
Trnsfr fm Ownership	kaf	0.0	0.0	0.0	0.0	0.0	0.0	23.0	22.4	0.0	0.0	0.0	0.0
End-of-month Ownership	kaf	13.3	25.5	25.4	25.3	25.2	25.1	22.6	0.0	0.0	0.0	0.0	0.0

Kendrick Initial Ownership 961.7 Kaf, Accrued this water year: 0.0 Kaf

		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Net Accrual	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Evaporation	kaf	6.2	3.4	2.0	2.1	2.2	4.2	7.4	8.6	12.3	11.8	10.1	7.7
Deliv fm Ownership	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	12.0	17.0	14.0	7.0
End-of-month Ownership	kaf	955.5	952.1	950.1	948.0	945.8	941.6	934.2	915.6	891.3	862.5	838.4	823.7

Glendo Unit Initial Ownership 119.3 Kaf, Accrued this water year: 0.0 Kaf

		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Accrual	kaf	0.0	0.0	0.0	0.0	0.0	7.5	32.7	0.0	0.0	0.0	0.0	0.0
Evaporation	kaf	0.8	0.4	0.3	0.3	0.3	0.5	1.0	1.5	2.1	2.0	1.7	1.2
Deliv fm Ownership	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	5.0	4.0
End-of-month Ownership	kaf	118.5	118.1	117.8	117.5	117.2	124.2	155.9	154.4	152.3	144.3	137.6	132.4

Re-regulation Initial Ownership 5.9 Kaf, Accrued this water year: 0.0 Kaf

		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Accrual	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Evaporation/Seepage	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0
Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	0.0	0.0
End-of-month total	kaf	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.8	5.7	0.0	0.0	0.0

Table 15 (Continued) Most Probable Operating Plan for Water Year 2013

NPRAOP V1.1K 21-Mar-2003 Run: 4-Oct-2012 9:47

Page 4

Based on Most Probable April-July Inflow Estimates: Seminole 772.7 KAF/Sweetwater 48.7 KAF/Alcova-Glendo 111.2 KAF

NORTH PLATTE RIVER OPERATING PLAN
Year Beginning Oct 2012

City of Cheyenne		Initial Ownership 4.1 Kaf,											
-----		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
-----		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Inflow	kaf	0.3	0.3	0.4	0.3	0.3	0.8	0.5	0.5	0.5	0.5	0.4	0.3
Evaporation	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1
Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.5	0.4	0.0	0.0
Ownership	kaf	4.4	4.7	5.1	5.4	5.7	6.5	7.0	4.4	4.4	4.5	4.9	5.1
Pacific corp		Initial Ownership 2.0 Kaf,											
-----		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
-----		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Inflow	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Evaporation	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ownership	kaf	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Other		Initial Ownership 4.9 Kaf,											
-----		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
-----		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Inflow	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Evaporation	kaf	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.1	0.1	0.0
Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	2.0	1.0
Ownership	kaf	4.8	4.7	4.7	4.7	4.7	4.6	4.5	4.5	4.4	3.8	1.7	0.7
IRRIGATION DELIVERY													

Kendrick (Casper Canal)		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
-----		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Requested	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	12.0	17.0	14.0	7.0
Delivered	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	12.0	17.0	14.0	7.0
Kendrick (River)		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
-----		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Requested	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delivered	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Guernsey Deliveries		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
-----		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
North Platte Req	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	130.0	124.0	300.0	275.0	126.0
Glendo Req	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	6.0	5.0	4.0
Inland Lakes Req	kaf	0.0	0.0	0.0	0.0	0.0	0.0	23.0	22.4	0.0	0.0	0.0	0.0
Total Requirement	kaf	0.0	0.0	0.0	0.0	0.0	0.0	23.0	152.4	126.0	306.0	280.0	130.0
Seepage	kaf	0.3	0.2	0.3	0.4	0.3	0.3	0.4	1.2	3.0	3.1	2.5	0.3
Actual Release	kaf	0.3	0.2	0.3	0.4	0.3	0.3	23.0	152.4	126.0	306.0	280.0	130.0

Table 15 (Continued) Most Probable Operating Plan for Water Year 2013

NPRAOP V1.1K 21-Mar-2003 Run: 4-Oct-2012 9:47

Page 5

Based on Most Probable April-July Inflow Estimates: Seminole 772.7 KAF/Sweetwater 48.7 KAF/Alcova-Glendo 111.2 KAF

NORTH PLATTE RIVER OPERATING PLAN
Year Beginning Oct 2012

POWER GENERATION

Seminole Power Plant		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Turbine Release	kaf	32.6	31.4	32.5	32.5	29.3	32.5	50.8	138.3	133.8	138.3	138.3	86.3
Bypass	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Maximum generation	gwh	20.608	13.827	9.954	16.451	26.875	29.853	29.593	32.075	32.405	33.268	33.473	26.117
Actual generation	gwh	5.216	4.968	5.103	5.087	4.560	5.074	8.082	22.702	23.014	24.203	23.511	14.193
Percent max generation		25.	36.	51.	31.	17.	17.	27.	71.	71.	73.	70.	54.
Average kwh/af		160.	158.	157.	157.	156.	156.	159.	164.	172.	175.	170.	164.
Kortes Power Plant		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Turbine Release	kaf	32.5	31.4	32.5	32.5	29.3	32.5	50.8	138.3	133.8	138.3	138.3	86.3
Bypass	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Maximum generation	gwh	28.346	26.712	27.606	27.606	24.940	27.606	26.712	27.606	26.712	27.606	27.606	26.712
Actual generation	gwh	5.590	5.401	5.590	5.590	5.040	5.590	8.738	23.788	23.014	23.788	23.788	14.844
Percent max generation		20.	20.	20.	20.	20.	20.	33.	86.	86.	86.	86.	56.
Average kwh/af		172.	172.	172.	172.	172.	172.	172.	172.	172.	172.	172.	172.
Fremont Canyon		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Turbine Release	kaf	2.1	25.6	26.3	26.3	23.8	35.2	81.8	84.5	81.8	148.2	145.0	95.5
Bypass	kaf	4.6	4.5	4.6	4.6	4.2	4.6	14.0	37.3	38.8	4.6	4.6	4.5
Maximum generation	gwh	21.358	20.760	21.460	21.490	19.469	21.556	20.770	21.477	21.004	43.470	43.235	41.626
Actual generation	gwh	0.531	6.497	6.679	6.689	6.065	8.980	20.770	21.477	21.004	38.097	37.073	24.299
Percent max generation		2.	31.	31.	31.	31.	42.	100.	100.	100.	88.	86.	58.
Average kwh/af		253.	254.	254.	254.	255.	255.	254.	254.	257.	257.	256.	254.
Alcova Power Plant		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Turbine Release	kaf	30.9	29.8	30.7	30.7	27.8	39.4	71.5	110.8	107.2	134.2	134.2	91.9
Bypass	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Maximum generation	gwh	27.182	26.588	27.472	13.736	18.115	19.230	25.226	27.552	26.656	27.552	27.552	26.656
Actual generation	gwh	4.268	4.053	4.175	4.175	3.781	5.358	9.867	15.512	15.008	18.788	18.788	12.866
Percent max generation		16.	15.	15.	30.	21.	28.	39.	56.	56.	68.	68.	48.
Average kwh/af		138.	136.	136.	136.	136.	136.	138.	140.	140.	140.	140.	140.
Glendo Power Plant		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Turbine Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	21.1	142.7	122.4	226.9	220.8	116.8
Bypass	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.5	1.5	80.7	63.1	1.5
Maximum generation	gwh	13.785	10.699	19.250	14.893	19.536	23.099	24.403	26.878	26.053	24.060	18.685	12.833
Actual generation	gwh	0.000	0.000	0.000	0.000	0.000	0.000	2.304	16.204	13.913	24.060	18.685	7.506
Percent max generation		0.	0.	0.	0.	0.	0.	9.	60.	53.	100.	100.	58.
Average kwh/af		0.	0.	0.	0.	0.	0.	109.	114.	114.	106.	85.	64.
Guernsey Power Plant		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Turbine Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	22.6	59.6	57.7	59.6	59.6	59.9
Bypass	kaf	0.3	0.2	0.3	0.4	0.3	0.3	0.4	92.8	68.3	246.4	220.4	70.1
Maximum generation	gwh	0.000	1.469	1.624	2.661	2.717	3.072	3.095	3.302	3.197	3.302	3.302	2.719
Actual generation	gwh	0.000	0.000	0.000	0.000	0.000	0.000	1.164	3.302	3.197	3.302	3.302	2.719
Percent max generation		0.	0.	0.	0.	0.	0.	38.	100.	100.	100.	100.	100.
Average kwh/af		0.	0.	0.	0.	0.	0.	52.	55.	55.	55.	55.	45.

Table 16 Reasonable Minimum Operating Plan for Water Year 2013

NPRAOP V1.1K 21-Mar-2003 Run: 4-Oct-2012 9:52

Page 1

Based on April - July MINIMUM Inflow Estimates: Seminoe 365.6 KAF/Sweetwater 20.6 KAF/Alcova - Glendo 23.0 KAF

NORTH PLATTE RIVER OPERATING PLAN
Year Beginning Oct 2012

HYDROLOGY OPERATIONS

Seminoe Reservoir Operations		Initial Content 565.4 Kaf						Operating Limits: Max 1017.3 Kaf, 6357.00 Ft. Min 31.7 Kaf, 6239.02 Ft.					
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Total Inflow	kaf	10.3	14.3	18.0	19.1	21.5	46.6	77.2	124.8	128.8	34.8	16.1	3.7
Total Inflow	cfs	168.	240.	293.	311.	387.	758.	1297.	2030.	2165.	566.	262.	62.
Turbine Release	kaf	32.6	31.4	32.5	32.5	29.3	32.5	86.2	95.6	92.5	95.5	95.6	36.2
Jet flow Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Spillway Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Release	kaf	32.6	31.4	32.5	32.5	29.3	32.5	86.2	95.6	92.5	95.5	95.6	36.2
Total Release	cfs	530.	528.	529.	529.	528.	529.	1449.	1555.	1555.	1553.	1555.	608.
Evaporation	kaf	3.4	1.8	1.0	1.0	1.0	2.1	3.7	3.6	6.1	6.6	5.0	3.3
End-of-month content	kaf	540.0	521.4	506.3	492.2	483.7	496.5#	484.3*	507.4	537.6	470.4	386.3*	350.8*
End-of-month elevation	ft	6327.2	6325.6	6324.4	6323.1	6322.4	6323.5	6322.4	6324.5	6327.0	6321.2	6312.9	309.0
Kortes Reservoir Operations		Initial Content 4.7 Kaf						Operating Limits: Max 4.8 Kaf, 6142.73 Ft. Min 1.7 Kaf, 6092.73 Ft.					
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Total Inflow	kaf	32.6	31.4	32.5	32.5	29.3	32.5	86.2	95.6	92.5	95.5	95.6	36.2
Total Inflow	cfs	530.	528.	529.	529.	528.	529.	1449.	1555.	1555.	1553.	1555.	608.
Turbine Release	kaf	32.5	31.4	32.5	32.5	29.3	32.5	86.2	95.6	92.5	95.5	95.6	36.2
Spillway Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Release	kaf	32.5	31.4	32.5	32.5	29.3	32.5	86.2	95.6	92.5	95.5	95.6	36.2
Total Release	cfs	529.	528.	529.	529.	528.	529.	1449.	1555.	1555.	1553.	1555.	608.
Pathfinder Reservoir Operations		Initial Content 384.9 Kaf						Operating Limits: Max 1070.0 Kaf, 5852.48 Ft. Min 31.4 Kaf, 5746.00 Ft.					
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Sweetwater Inflow	kaf	1.0	1.6	1.8	2.0	1.9	3.9	9.5	6.5	4.1	0.5	0.0	-2.0
Kortes-Path Gain	kaf	-0.4	-0.6	-1.6	-1.2	0.0	3.4	3.4	4.2	-1.2	0.0	0.0	-0.9
Inflow from Kortes	kaf	32.5	31.4	32.5	32.5	29.3	32.5	86.2	95.6	92.5	95.5	95.6	36.2
Total Inflow	kaf	33.1	32.4	32.7	33.3	31.2	39.8	99.1	106.3	95.4	96.0	95.6	33.3
Total Inflow	cfs	538.	544.	532.	542.	562.	647.	1665.	1729.	1603.	1561.	1555.	560.
Turbine Release	kaf	2.1	25.6	26.3	26.3	23.8	35.2	81.8	83.6	81.8	112.5	109.2	66.5
Jet flow Release	kaf	4.6	4.5	4.6	4.6	4.2	4.6	17.3	4.6	26.9	4.6	4.6	4.5
Spillway Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Release	kaf	6.7	30.1	30.9	30.9	28.0	39.8	99.1	88.2	108.7	117.1	113.8	71.0
Total Release	cfs	109.	506.	503.	503.	504.	647.	1665.	1434.	1827.	1904.	1851.	1193.
Evaporation	kaf	2.9	1.6	0.9	0.9	0.9	1.8	3.4	4.2	6.2	6.5	5.5	3.9
End-of-month content	kaf	408.4	409.1	410.0	411.5	413.8	412.0	408.6	422.5	403.0	375.4	351.7	310.1
End-of-month elevation	ft	5812.1	5812.2	5812.3	5812.4	5812.6	5812.4	5812.1	5813.4	5811.6	5808.8	5806.3	5801.6
Alcova Reservoir Operations		Initial Content 180.8 Kaf						Operating Limits: Max 184.4 Kaf, 5500.00 Ft. Min 145.3 Kaf, 5483.12 Ft.					
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Total Inflow	kaf	6.7	30.1	30.9	30.9	28.0	39.8	99.1	88.2	108.7	117.1	113.8	71.0
Total Inflow	cfs	109.	506.	503.	503.	504.	647.	1665.	1434.	1827.	1904.	1851.	1193.
Turbine Release	kaf	30.9	29.8	30.7	30.7	27.8	39.4	74.8	77.2	95.3	98.5	98.4	62.9
Spillway Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Casper Canal Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	12.0	17.0	14.0	7.0
Total Release	kaf	30.9	29.8	30.7	30.7	27.8	39.4	74.8	87.2	107.3	115.5	112.4	69.9
Total Release	cfs	503.	501.	499.	499.	501.	641.	1257.	1418.	1803.	1878.	1828.	1175.
Evaporation	kaf	0.7	0.3	0.2	0.2	0.2	0.4	0.8	1.0	1.4	1.6	1.4	1.1
End-of-month content	kaf	155.9*	155.9*	155.9*	155.9*	155.9*	155.9*	179.4*	179.4*	179.4*	179.4*	179.4*	179.4*
End-of-month elevation	ft	5487.9	5487.9	5487.9	5487.9	5487.9	5487.9	5498.0	5498.0	5498.0	5498.0	5498.0	5498.0

Table 16 (Continued) Reasonable Minimum Operating Plan for Water Year 2013

NPRAOP V1.1K 21-Mar-2003 Run: 4-Oct-2012 9:52

Page 2

Based on April - July MINIMUM Inflow Estimates: Seminoe 365.6 KAF/Sweetwater 20.6 KAF/Alcova - Glendo 23.0 KAF

NORTH PLATTE RIVER OPERATING PLAN
Year Beginning Oct 2012

Gray Reef Reservoir Operations		Initial Content		1.5 Kaf		Operating Limits: Max		1.7 Kaf, 5331.44 Ft.		Min		0.0 Kaf, 5306.00 Ft.	
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Total Inflow	kaf	30.9	29.8	30.7	30.7	27.8	39.4	74.8	77.2	95.3	98.5	98.4	62.9
Total Inflow	cfs	503.	501.	499.	499.	501.	641.	1257.	1256.	1602.	1602.	1600.	1057.
Total Release	kaf	30.7	29.8	30.7	30.7	27.8	39.4	74.7	77.1	95.2	98.4	98.3	62.8
Total Release	cfs	499.	501.	499.	499.	501.	641.	1255.	1254.	1600.	1600.	1599.	1055.
Glendo Reservoir Operations		Initial Content		115.5 Kaf		Operating Limits: Max		763.0 Kaf, 4653.00 Ft.		Min		51.6 Kaf, 4570.01 Ft.	
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Alcova-Glendo Gain	kaf	4.8	5.6	5.3	6.4	8.9	13.3	10.8	16.3	-1.6	-2.5	-7.6	1.2
Inflow from Gray Reef	kaf	30.7	29.8	30.7	30.7	27.8	39.4	74.7	77.1	95.2	98.4	98.3	62.8
Total Inflow	kaf	35.5	35.4	36.0	37.1	36.7	52.7	85.5	93.4	93.6	95.9	90.7	64.0
Total Inflow	cfs	577.	595.	585.	603.	661.	857.	1437.	1519.	1573.	1560.	1475.	1076.
Turbine Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.5	103.0	226.2	219.4	83.7
Low Flow Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.5	1.5	1.5	1.5	1.5
Spillway Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Irrigation Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	68.2	7.1	0.0
Total Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.3	22.0	104.5	295.9	228.0	85.2
Total Release	cfs	0.	0.	0.	0.	0.	0.	5.	358.	1756.	4812.	3708.	1432.
Evaporation	kaf	1.1	0.7	0.7	0.7	0.8	1.6	3.1	4.8	6.9	6.4	3.9	1.9
End-of-month content	kaf	149.9	184.6	219.9	256.3	292.2*	343.3*	425.4	492.0*	474.2	267.3	124.1*	100.0*
End-of-month elevation	ft	4594.6	4600.5	4605.7	4610.6	4615.0	4620.8	4629.1	4635.0	4633.5	4612.0	4589.5	4584.1
Guernsey Reservoir Operations		Initial Content		0.3 Kaf		Operating Limits: Max		45.6 Kaf, 4419.99 Ft.		Min		0.0 Kaf, 4370.00 Ft.	
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Glendo-Guernsey Gain	kaf	1.2	1.4	1.5	1.5	1.0	0.5	0.7	3.8	-1.9	-1.2	-7.5	-0.4
Inflow from Glendo	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.3	22.0	104.5	295.9	228.0	85.2
Total Inflow	kaf	1.2	1.4	1.5	1.5	1.0	0.5	1.0	25.8	102.6	294.7	220.5	84.8
Total Inflow	cfs	20.	24.	24.	24.	18.	8.	17.	420.	1724.	4793.	3586.	1425.
Turbine Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.0	57.7	59.6	59.6	59.9
Seepage	kaf	0.3	0.2	0.3	0.4	0.3	0.3	0.4	1.2	3.0	3.1	2.5	0.3
Spillway Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41.3	231.3	157.9	34.1
Total Release	kaf	0.3	0.2	0.3	0.4	0.3	0.3	0.4	21.2	102.0	294.0	220.0	94.3
Total Release	cfs	5.	3.	5.	7.	5.	5.	7.	345.	1714.	4781.	3578.	1585.
Evaporation	kaf	0.0	0.0	0.0	0.2	0.2	0.1	0.2	0.4	0.6	0.7	0.5	0.2
End-of-month content	kaf	1.2	2.4	3.6	4.5	5.0#	5.1#	5.5#	9.7*	9.7*	9.7*	9.7*	0.0
End-of-month elevation	ft	4385.0	4389.2	4392.0	4393.6	4394.5	4394.6	4395.2	4400.0	4400.0	4400.0	4400.0	4370.0
Physical EOM Cont	kaf	1261.9	1279.9	1302.2	1326.9	1357.1	1419.3	1509.7	1617.5	1610.4	1308.7	1057.7	946.8

Table 16 (Continued) Reasonable Minimum Operating Plan for Water Year 2013

NPRAOP V1.1K 21-Mar-2003 Run: 4-Oct-2012 9:52

Page 3

Based on April - July MINIMUM Inflow Estimates: Seminoe 365.6 KAF/Sweetwater 20.6 KAF/Alcova - Glendo 23.0 KAF

NORTH PLATTE RIVER OPERATING PLAN
Year Beginning Oct 2012

OWNERSHIP OPERATIONS

North Platte Pathfinder Initial Ownership 155.2 Kaf, Accrued this water year: 0.0 Kaf

		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Net Accrual	kaf	9.9	14.7	17.8	19.5	22.9	52.8	87.8	131.9	19.5	0.0	0.0	0.0
Evaporation	kaf	1.0	0.6	0.4	0.4	0.5	1.1	2.3	3.6	6.7	7.2	4.0	1.0
Deliv fm Ownership	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	207.1	214.0	88.7
End-of-month Ownership	kaf	165.1	179.8	197.6	217.1	240.0	292.8	380.6	512.5	532.0	317.7	99.7	10.0

North Platte Guernsey Initial Ownership 0.0 Kaf, Accrued this water year: 0.0 Kaf

		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Net Accrual	kaf	0.0	0.0	6.5	7.5	9.6	13.4	0.0	8.3	0.0	0.0	0.0	0.0
Evaporation/Seepage	kaf	0.0	0.0	0.3	0.4	0.3	0.4	0.3	0.3	0.6	0.6	0.0	0.0
Deliv fm Ownership	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43.8	0.0	0.0
End-of-month Ownership	kaf	0.0	0.0	6.5	14.0	23.6	37.0	36.7	45.0	44.4	0.0	0.0	0.0

Inland Lakes Initial Ownership 0.0 Kaf, Accrued this water year: 0.0 Kaf

		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Net Accrual	kaf	5.7	6.8	0.0	0.0	0.0	0.0	11.0	0.0	0.0	0.0	0.0	0.0
Evaporation/Seepage	kaf	0.3	0.2	0.0	0.0	0.0	0.0	0.5	0.2	0.0	0.0	0.0	0.0
Trnsfr fm Ownership	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.2	0.0	0.0	0.0	0.0
End-of-month Ownership	kaf	5.7	12.5	12.5	12.5	12.5	12.5	23.5	2.1	2.1	2.1	2.1	2.1

Kendrick Initial Ownership 961.7 Kaf, Accrued this water year: 0.0 Kaf

		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Net Accrual	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Evaporation	kaf	6.2	3.3	2.1	2.2	2.2	4.2	7.5	8.7	12.1	12.1	10.8	8.3
Deliv fm Ownership	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	12.0	17.0	14.0	7.0
End-of-month Ownership	kaf	955.5	952.2	950.1	947.9	945.7	941.5	934.0	915.3	891.2	862.1	837.3	22.0

Glendo Unit Initial Ownership 119.3 Kaf, Accrued this water year: 0.0 Kaf

		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Accrual	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.5	0.0	0.0	0.0	0.0
Evaporation	kaf	0.8	0.4	0.2	0.3	0.3	0.5	0.9	1.1	1.7	1.7	1.5	1.1
Deliv fm Ownership	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	5.0	4.0
End-of-month Ownership	kaf	118.5	118.1	117.9	117.6	117.3	116.8	115.9	126.3	124.6	116.9	110.4	105.3

Re-regulation Initial Ownership 5.9 Kaf, Accrued this water year: 0.0 Kaf

		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Accrual	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Evaporation/Seepage	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0
Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	0.0	0.0
End-of-month total	kaf	5.9	5.9	5.9	5.9	5.9	5.9	5.8	5.7	5.6	0.0	0.0	0.0

Table 16 (Continued) Reasonable Minimum Operating Plan for Water Year 2013

NPRAOP V1.1K 21-Mar-2003 Run: 4-Oct-2012 9:52

Page 4

Based on April - July MINIMUM Inflow Estimates: Seminoe 365.6 KAF/Sweetwater 20.6 KAF/Alcova - Glendo 23.0 KAF

NORTH PLATTE RIVER OPERATING PLAN
Year Beginning Oct 2012

City of Cheyenne		Initial Ownership 4.1 Kaf,											
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Inflow	kaf	0.3	0.3	0.4	0.3	0.3	0.8	0.5	0.5	0.5	0.5	0.4	0.3
Evaporation	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.0	0.1
Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.5	0.4	0.0	0.0
Ownership	kaf	4.4	4.7	5.1	5.4	5.7	6.5	6.9	4.3	4.3	4.3	4.7	4.9
PacifiCorp		Initial Ownership 2.0 Kaf,											
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Inflow	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Evaporation	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ownership	kaf	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Other		Initial Ownership 4.9 Kaf,											
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Inflow	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Evaporation	kaf	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.0
Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	2.0	1.0
Ownership	kaf	4.8	4.7	4.6	4.5	4.4	4.3	4.3	4.3	4.2	3.6	1.5	0.5

IRRIGATION DELIVERY

Kendrick (Casper Canal)		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Requested	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	12.0	17.0	14.0	7.0
Delivered	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	12.0	17.0	14.0	7.0
Kendrick (River)		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Requested	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delivered	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Guernsey Deliveries		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
North Platte Req	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	288.0	215.0	90.3
Glendo Req	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	6.0	5.0	4.0
Inland Lakes Req	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.2	0.0	0.0	0.0	0.0
Total Requirement	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.2	102.0	294.0	220.0	94.3
Seepage	kaf	0.3	0.2	0.3	0.4	0.3	0.3	0.4	1.2	3.0	3.1	2.5	0.3
Actual Release	kaf	0.3	0.2	0.3	0.4	0.3	0.3	0.4	21.2	102.0	294.0	220.0	94.3

Table 16 (Continued) Reasonable Minimum Operating Plan for Water Year 2013

NPRAOP V1.1K 21-Mar-2003 Run: 4-Oct-2012 9:52

Page 2

Based on April - July MINIMUM Inflow Estimates: Seminoe 365.6 KAF/Sweetwater 20.6 KAF/Alcova - Glendo 23.0 KAF

NORTH PLATTE RIVER OPERATING PLAN
Year Beginning Oct 2012

POWER GENERATION

Seminoe Power Plant		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep

Turbine Release	kaf	32.6	31.4	32.5	32.5	29.3	32.5	86.2	95.6	92.5	95.5	95.6	36.2
Bypass	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Maximum generation	gwh	20.601	13.786	9.907	16.351	26.672	29.570	28.617	29.681	29.202	29.837	28.421	21.954
Actual generation	gwh	5.214	4.953	5.103	5.056	4.525	5.026	13.334	14.840	14.523	14.903	14.285	5.191
Percent max generation		25.	36.	52.	31.	17.	17.	47.	50.	50.	50.	50.	24.
Average kwh/af		160.	158.	157.	156.	154.	155.	155.	155.	157.	156.	149.	143.

Kortes Power Plant		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep

Turbine Release	kaf	32.5	31.4	32.5	32.5	29.3	32.5	86.2	95.6	92.5	95.5	95.6	36.2
Bypass	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Maximum generation	gwh	28.346	26.712	27.606	27.606	24.940	27.606	26.712	27.606	26.712	27.606	27.606	26.712
Actual generation	gwh	5.590	5.401	5.590	5.590	5.040	5.590	14.826	16.443	15.910	16.426	16.443	6.226
Percent max generation		20.	20.	20.	20.	20.	20.	56.	60.	60.	60.	60.	23.
Average kwh/af		172.	172.	172.	172.	172.	172.	172.	172.	172.	172.	172.	172.

Fremont Canyon		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep

Turbine Release	kaf	2.1	25.6	26.3	26.3	23.8	35.2	81.8	83.6	81.8	112.5	109.2	66.5
Bypass	kaf	4.6	4.5	4.6	4.6	4.2	4.6	17.3	4.6	26.9	4.6	4.6	4.5
Maximum generation	gwh	21.356	20.753	21.443	21.451	19.407	21.466	20.763	21.484	20.779	42.636	42.289	40.424
Actual generation	gwh	0.531	6.495	6.674	6.677	6.045	8.942	20.763	21.255	20.779	28.365	27.309	16.431
Percent max generation		2.	31.	31.	31.	31.	42.	100.	99.	100.	67.	65.	41.
Average kwh/af		253.	254.	254.	254.	254.	254.	254.	254.	254.	252.	250.	247.

Alcova Power Plant		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep

Turbine Release	kaf	30.9	29.8	30.7	30.7	27.8	39.4	74.8	77.2	95.3	98.5	98.4	62.9
Bypass	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Maximum generation	gwh	27.182	26.588	27.472	13.736	18.115	19.230	25.226	27.552	26.656	27.552	27.552	26.656
Actual generation	gwh	4.268	4.053	4.175	4.175	3.781	5.358	10.322	10.808	13.342	13.790	13.776	8.806
Percent max generation		16.	15.	15.	30.	21.	28.	41.	39.	50.	50.	50.	33.
Average kwh/af		138.	136.	136.	136.	136.	136.	138.	140.	140.	140.	140.	140.

Glendo Power Plant		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep

Turbine Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.5	103.0	226.2	219.4	83.7
Bypass	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.5	1.5	69.7	8.6	1.5
Maximum generation	gwh	13.595	10.338	18.509	14.548	18.989	22.356	23.467	26.407	26.257	23.869	18.112	12.835
Actual generation	gwh	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.303	11.764	23.869	18.112	5.380
Percent max generation		0.	0.	0.	0.	0.	0.	0.	9.	45.	100.	100.	42.
Average kwh/af		0.	0.	0.	0.	0.	0.	0.	112.	114.	106.	83.	64.

Guernsey Power Plant		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep

Turbine Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.0	57.7	59.6	59.6	59.9
Bypass	kaf	0.3	0.2	0.3	0.4	0.3	0.3	0.4	1.2	44.3	234.4	160.4	34.4
Maximum generation	gwh	0.000	1.213	1.474	2.414	2.493	2.909	2.913	3.190	3.197	3.302	3.302	2.719
Actual generation	gwh	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.024	3.197	3.302	3.302	2.719
Percent max generation		0.	0.	0.	0.	0.	0.	0.	32.	100.	100.	100.	100.
Average kwh/af		0.	0.	0.	0.	0.	0.	0.	51.	55.	55.	55.	45.

Table 17 Reasonable Maximum Operating Plan for Water Year 2013

NPRAOP V1.1K 21-Mar-2003 Run: 4-Oct-2012 11:36

Page 1

Based on April - July MAXIMUM Inflow Estimates: Seminole 1318.1 KAF/Sweetwater 115.7 KAF/Alcova - Glendo 290.2 KAF

NORTH PLATTE RIVER OPERATING PLAN
Year Beginning Oct 2012

HYDROLOGY OPERATIONS

Seminole Reservoir Operations		Initial Content 565.4 Kaf						Operating Limits: Max 1017.3 Kaf, 6357.00 Ft. Min 31.7 Kaf, 6239.02 Ft.					
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Total Inflow	kaf	29.2	29.0	26.0	25.7	28.3	59.8	155.5	380.8	565.3	216.5	28.9	19.5
Total Inflow	cfs	475.	487.	423.	418.	510.	973.	2613.	6193.	9500.	3521.	470.	328.
Turbine Release	kaf	32.6	31.4	0.0	32.5	29.4	61.9	185.0	193.0	185.1	178.1	92.3	71.3
Jet flow Release	kaf	0.0	0.0	32.5	0.0	0.0	0.0	23.3	22.2	31.5	26.1	0.0	0.0
Spillway Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Release	kaf	32.6	31.4	32.5	32.5	29.4	61.9	208.3	215.2	216.6	204.2	92.3	71.3
Total Release	cfs	530.	528.	529.	529.	529.	1007.	3501.	3500.	3640.	3321.	1501.	1198.
Evaporation	kaf	3.4	1.8	1.0	1.0	1.0	2.1	3.9	4.0	8.7	11.2	9.4	6.5
End-of-month content	kaf	558.9	555.0	547.9	540.6	539.3*	536.1*	480.4	640.5*	980.0*	980.9*	908.0*	850.0*
End-of-month elevation	ft	6328.7	6328.4	6327.8	6327.2	6327.1	6326.9	6322.1	6334.9	6355.1	6355.2	6351.4	6348.2
Kortes Reservoir Operations		Initial Content 4.7 Kaf						Operating Limits: Max 4.8 Kaf, 6142.73 Ft. Min 1.7 Kaf, 6092.73 Ft.					
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Total Inflow	kaf	32.6	31.4	32.5	32.5	29.4	61.9	208.3	215.2	216.6	204.2	92.3	71.3
Total Inflow	cfs	530.	528.	529.	529.	529.	1007.	3501.	3500.	3640.	3321.	1501.	1198.
Turbine Release	kaf	32.5	31.4	32.5	32.5	29.4	61.9	121.1	160.5	155.3	160.5	92.3	71.3
Spillway Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	87.2	54.7	61.3	43.7	0.0	0.0
Total Release	kaf	32.5	31.4	32.5	32.5	29.4	61.9	208.3	215.2	216.6	204.2	92.3	71.3
Total Release	cfs	529.	528.	529.	529.	529.	1007.	3501.	3500.	3640.	3321.	1501.	1198.
Pathfinder Reservoir Operations		Initial Content 384.9 Kaf						Operating Limits: Max 1070.0 Kaf, 5852.48 Ft. Min 31.4 Kaf, 5746.00 Ft.					
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Sweetwater Inflow	kaf	2.2	2.7	2.4	2.4	2.6	5.8	17.8	43.5	43.4	11.0	3.6	1.9
Kortes-Path Gain	kaf	2.5	1.6	1.8	4.3	5.9	8.0	10.6	17.0	10.8	1.3	4.8	2.6
Inflow from Kortes	kaf	32.5	31.4	32.5	32.5	29.4	61.9	208.3	215.2	216.6	204.2	92.3	71.3
Total Inflow	kaf	37.2	35.7	36.7	39.2	37.9	75.7	236.7	275.7	270.8	216.5	100.7	75.8
Total Inflow	cfs	605.	600.	597.	638.	682.	1231.	3978.	4484.	4551.	3521.	1638.	1274.
Turbine Release	kaf	2.1	25.6	26.3	26.3	23.8	35.2	73.4	66.7	81.8	169.1	167.1	126.0
Jet flow Release	kaf	4.6	4.5	4.6	4.6	4.2	4.6	4.5	4.6	82.8	5.8	4.6	4.5
Spillway Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Release	kaf	6.7	30.1	30.9	30.9	28.0	39.8	77.9	71.3	164.6	174.9	171.7	130.5
Total Release	cfs	109.	506.	503.	503.	504.	647.	1309.	1160.	2766.	2844.	2792.	2193.
Evaporation	kaf	2.9	1.6	0.9	0.9	0.9	2.0	4.4	6.8	11.7	13.6	11.9	8.6
End-of-month content	kaf	412.5	416.5	421.4	428.8	437.8	471.7	626.1	823.7	918.2	946.2	863.3	800.0
End-of-month elevation	ft	5812.5	5812.9	5813.3	5814.0	5814.8	5817.8	5829.2	5840.7	5845.5	5846.8	5842.8	5839.5
Alcova Reservoir Operations		Initial Content 180.8 Kaf						Operating Limits: Max 184.4 Kaf, 5500.00 Ft. Min 100.0 Kaf, 5459.92 Ft.					
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Total Inflow	kaf	6.7	30.1	30.9	30.9	28.0	39.8	77.9	71.3	164.6	174.9	171.7	130.5
Total Inflow	cfs	109.	506.	503.	503.	504.	647.	1309.	1160.	2766.	2844.	2792.	2193.
Turbine Release	kaf	30.9	29.8	30.7	30.7	27.8	39.4	53.6	60.3	151.2	156.3	156.3	122.4
Spillway Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Casper Canal Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	12.0	17.0	14.0	7.0
Total Release	kaf	30.9	29.8	30.7	30.7	27.8	39.4	53.6	70.3	163.2	173.3	170.3	129.4
Total Release	cfs	503.	501.	499.	499.	501.	641.	901.	1143.	2743.	2818.	2770.	2175.
Evaporation	kaf	0.7	0.3	0.2	0.2	0.2	0.4	0.8	1.0	1.4	1.6	1.4	1.1
End-of-month content	kaf	155.9*	155.9*	155.9*	155.9*	155.9*	155.9*	179.4*	179.4*	179.4*	179.4*	179.4*	179.4*
End-of-month elevation	ft	5487.9	5487.9	5487.9	5487.9	5487.9	5487.9	5498.0	5498.0	5498.0	5498.0	5498.0	5498.0

Table 17 (Continued) Reasonable Maximum Operating Plan for Water Year 2013

NPRAOP V1.1K 21-Mar-2003 Run: 4-Oct-2012 11:36

Page 2

Based on April - July MAXIMUM Inflow Estimates: Seminole 1318.1 KAF/Sweetwater 115.7 KAF/Alcova - Glendo 290.2 KAF

NORTH PLATTE RIVER OPERATING PLAN
Year Beginning Oct 2012

Gray Reef Reservoir Operations			Initial Content				1.5 Kaf		Operating Limits: Max			1.7 Kaf, 5331.44 Ft.		
			Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Total Inflow	kaf	30.9	29.8	30.7	30.7	27.8	39.4	53.6	60.3	151.2	156.3	156.3	122.4	
Total Inflow	cfs	503.	501.	499.	499.	501.	641.	901.	981.	2541.	2542.	2542.	2057.	
Total Release	kaf	30.7	29.8	30.7	30.7	27.8	39.4	53.5	60.2	151.1	156.2	156.2	122.3	
Total Release	cfs	499.	501.	499.	499.	501.	641.	899.	979.	2539.	2540.	2540.	2055.	
Glendo Reservoir Operations			Initial Content				115.5 Kaf		Operating Limits: Max			763.0 Kaf, 4653.00 Ft.		
			Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Alcova-Glendo Gain	kaf	17.4	15.0	6.0	13.1	12.4	16.3	49.8	168.9	69.7	1.8	0.2	7.3	
Infl from Gray Reef	kaf	30.7	29.8	30.7	30.7	27.8	39.4	53.5	60.2	151.1	156.2	156.2	122.3	
Total Inflow	kaf	48.1	44.8	36.7	43.8	40.2	55.7	103.3	229.1	220.8	158.0	156.4	129.6	
Total Inflow	cfs	782.	753.	597.	712.	724.	906.	1736.	3726.	3711.	2570.	2544.	2178.	
Turbine Release	kaf	0.0	0.0	0.0	0.0	0.0	0.1	19.3	190.1	228.1	225.1	221.4	114.5	
Low Flow Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.5	1.5	1.5	1.5	1.5	
Spillway Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Irrigation Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.9	79.2	55.2	0.0	
Total Release	kaf	0.0	0.0	0.0	0.0	0.0	0.1	19.6	191.6	266.5	305.8	278.1	116.0	
Total Release	cfs	0.	0.	0.	0.	0.	2.	329.	3116.	4479.	4973.	4523.	1949.	
Evaporation	kaf	1.1	0.8	0.7	0.7	0.8	1.7	3.1	5.0	6.7	6.3	4.2	2.5	
End-of-month content	kaf	162.5	206.5	242.5	285.6	325.0#	378.9*	459.5*	492.0*	437.6	281.5	153.6*	163.6*	
End-of-month elevation	ft	4596.8	4603.8	4608.8	4614.2	4618.8	4624.6	4632.2	4635.0	4630.2	4613.7	4595.3	4597.0	
Guernsey Reservoir Operations			Initial Content				0.3 Kaf		Operating Limits: Max			28.0 Kaf, 4411.92 Ft.		
			Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Glendo-Guerns Gain	kaf	2.9	1.6	1.3	1.6	1.0	0.7	6.7	28.7	21.7	0.5	2.4	5.0	
Inflow from Glendo	kaf	0.0	0.0	0.0	0.0	0.0	0.1	19.6	191.6	266.5	305.8	278.1	116.0	
Total Inflow	kaf	2.9	1.6	1.3	1.6	1.0	0.8	26.3	220.3	288.2	306.3	280.5	121.0	
Total Inflow	cfs	47.	27.	21.	26.	18.	13.	442.	3583.	4843.	4981.	4562.	2033.	
Turbine Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	22.6	59.6	57.7	59.6	59.6	61.4	
Seepage	kaf	0.3	0.3	0.2	0.4	0.3	0.3	0.4	1.2	3.0	3.1	2.5	0.3	
Spillway Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	159.1	226.9	243.3	217.9	68.3	
Total Release	kaf	0.3	0.3	0.2	0.4	0.3	0.3	23.0	219.9	287.6	306.0	280.0	130.0	
Total Release	cfs	5.	5.	3.	7.	5.	5.	387.	3576.	4833.	4977.	4554.	2185.	
Evaporation	kaf	0.1	0.2	0.1	0.1	0.1	0.3	0.4	0.4	0.6	0.3	0.5	0.2	
End-of-month content	kaf	2.8	3.9	4.9	6.0	6.6#	6.8*	9.7*	9.7*	9.7*	9.7*	9.7*	0.5*	
End-of-month elevation	ft	4390.2	4392.6	4394.3	4395.9	4396.7	4396.9	4400.0	4400.0	4400.0	4400.0	4400.0	4381.0	
Physical EOM Cont	kaf	1299.1	1344.3	1379.1	1423.4	1471.1	1555.9	1761.6	2151.8	2531.4	2404.2	2120.5	2000.0	

Table 17 (Continued) Reasonable Maximum Operating Plan for Water Year 2013

NPRAOP V1.1K 21-Mar-2003 Run: 4-Oct-2012 11:36

Page 3

Based on April - July MAXIMUM Inflow Estimates: Seminole 1318.1 KAF/Sweetwater 115.7 KAF/Alcova - Glendo 290.2 KAF

NORTH PLATTE RIVER OPERATING PLAN
Year Beginning Oct 2012

OWNERSHIP OPERATIONS

North Platte Pathfinder		Initial Ownership 155.2 Kaf, Accrued this water year: 0.0 Kaf											
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Net Accrual	kaf	32.9	32.6	29.8	31.9	36.2	72.2	180.7	435.7	62.8	0.0	0.0	0.0
Evaporation	kaf	1.0	0.7	0.4	0.5	0.6	1.4	3.2	5.6	13.7	14.0	12.1	7.4
Deliv fm Ownership	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	226.2	89.7
End-of-month Ownership	kaf	188.1	220.7	250.5	282.4	318.6	390.8	571.5	1007.2	1070.0	1056.0	817.7	720.6
North Platte Guernsey		Initial Ownership 0.0 Kaf, Accrued this water year: 0.0 Kaf											
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Net Accrual	kaf	0.0	0.0	7.1	14.3	13.0	10.6	0.0	0.0	0.0	0.0	0.0	0.0
Evaporation/Seepage	kaf	0.0	0.0	0.2	0.4	0.4	0.5	0.4	0.5	0.6	0.5	0.1	0.0
Deliv fm Ownership	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.0	8.9	0.0
End-of-month Ownership	kaf	0.0	0.0	7.1	21.4	34.4	45.0	44.6	44.1	43.5	9.0	0.0	0.0
Inland Lakes		Initial Ownership 0.0 Kaf, Accrued this water year: 0.0 Kaf											
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Net Accrual	kaf	20.0	16.2	0.0	0.0	0.0	0.0	9.8	0.0	0.0	0.0	0.0	0.0
Evaporation/Seepage	kaf	0.3	0.4	0.1	0.1	0.1	0.1	0.3	0.2	0.0	0.0	0.0	0.0
Trnsfr fm Ownership	kaf	0.0	0.0	0.0	0.0	0.0	0.0	23.0	22.4	0.0	0.0	0.0	0.0
End-of-month Ownership	kaf	20.0	36.2	36.1	36.0	35.9	35.8	22.6	0.0	0.0	0.0	0.0	0.0
Kendrick		Initial Ownership 961.7 Kaf, Accrued this water year: 0.0 Kaf											
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Net Accrual	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	287.0	0.0	0.0	0.0
Evaporation	kaf	6.3	3.5	2.1	2.0	2.0	4.2	7.7	9.2	12.4	15.7	13.4	10.2
Deliv fm Ownership	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0	17.0	14.0	7.0
End-of-month Ownership	kaf	955.4	951.9	949.8	947.8	945.8	941.6	933.9	914.7	1201.7	1169.0	1141.6	124.4
Glendo Unit		Initial Ownership 119.3 Kaf, Accrued this water year: 0.0 Kaf											
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Accrual	kaf	0.0	0.0	0.0	0.0	0.0	5.9	46.4	0.1	0.0	0.0	0.0	0.0
Evaporation	kaf	0.8	0.4	0.3	0.3	0.2	0.5	1.0	1.6	2.2	2.2	1.7	1.3
Deliv fm Ownership	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	5.0	4.0
End-of-month Ownership	kaf	118.5	118.1	117.8	117.5	117.3	122.7	168.1	166.6	164.4	156.2	149.5	144.2
Re-regulation		Initial Ownership 0.0 Kaf, Accrued this water year: 0.0 Kaf											
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Accrual	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.5	197.0	0.0	0.0	0.0
Evaporation/Seepage	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0
Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.5	161.6	34.9	0.0	0.0
End-of-month total	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.4	0.0	0.0	0.0

Table 17 (Continued) Reasonable Maximum Operating Plan for Water Year 2013

NPRAOP V1.1K 21-Mar-2003 Run: 4-Oct-2012 11:36

Page 4

Based on April - July MAXIMUM Inflow Estimates: Seminole 1318.1 KAF/Sweetwater 115.7 KAF/Alcova - Glendo 290.2 KAF

NORTH PLATTE RIVER OPERATING PLAN
Year Beginning Oct 2012

City of Cheyenne

Initial Ownership 4.1 Kaf,

		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Inflow	kaf	0.3	0.3	0.4	0.5	0.8	1.0	1.0	1.5	1.0	0.5	0.6	0.3
Evaporation	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0
Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	1.5	0.7	0.7	0.0
Ownership	kaf	4.4	4.7	5.1	5.6	6.4	7.4	8.4	6.8	6.2	5.9	5.7	6.0

Pacificorp

Initial Ownership 2.0 Kaf,

		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Inflow	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Evaporation	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ownership	kaf	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0

Other

Initial Ownership 10.8 Kaf,

		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Inflow	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Evaporation	kaf	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.1	0.1	0.1
Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	1.1
Ownership	kaf	10.7	10.7	10.7	10.7	10.7	10.6	10.5	10.4	8.2	6.1	4.0	2.8

IRRIGATION DELIVERY

Kendrick (Casper Canal)		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Requested	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	12.0	17.0	14.0	7.0
Delivered	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	12.0	17.0	14.0	7.0
Kendrick (River)		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Requested	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delivered	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Guernsey Deliveries		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
North Platte Req	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	130.0	124.0	300.0	275.0	126.0
Glendo Req	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	6.0	5.0	4.0
Inland Lakes Req	kaf	0.0	0.0	0.0	0.0	0.0	0.0	23.0	22.4	0.0	0.0	0.0	0.0
Total Requirement	kaf	0.0	0.0	0.0	0.0	0.0	0.0	23.0	152.4	126.0	306.0	280.0	130.0
Seepage	kaf	0.3	0.3	0.2	0.4	0.3	0.3	0.4	1.2	3.0	3.1	2.5	0.3
Actual Release	kaf	0.3	0.3	0.2	0.4	0.3	0.3	23.0	219.9	287.6	306.0	280.0	130.0
Spill	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.5	161.6	0.0	0.0	0.0

Table 17 (Continued) Reasonable Maximum Operating Plan for Water Year 2013

NPRAOP V1.1K 21-Mar-2003 Run: 4-Oct-2012 11:36

Page 5

Based on April - July MAXIMUM Inflow Estimates: Seminoe 1318.1 KAF/Sweetwater 115.7 KAF/Alcova - Glendo 290.2 KAF

NORTH PLATTE RIVER OPERATING PLAN
Year Beginning Oct 2012

POWER GENERATION

-----		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
-----		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Seminoe Power Plant													
Turbine Release	kaf	32.6	31.4	0.0	32.5	29.4	61.9	185.0	193.0	185.1	178.1	92.3	71.3
Bypass	kaf	0.0	0.0	32.5	0.0	0.0	0.0	23.3	22.2	31.5	26.1	0.0	0.0
Maximum generation	gwh	15.456	9.840	0.000	13.157	27.544	30.452	28.949	30.880	32.207	32.058	32.381	25.789
Actual generation	gwh	5.216	5.024	0.000	5.171	4.665	9.807	28.949	30.880	32.207	32.058	16.522	12.620
Percent max generation		34.	51.	0.	39.	17.	32.	100.	100.	100.	100.	51.	49.
Average kwh/af		160.	160.	0.	159.	159.	158.	156.	160.	174.	180.	179.	177.
Kortes Power Plant													
Turbine Release	kaf	32.5	31.4	32.5	32.5	29.4	61.9	121.1	160.5	155.3	160.5	92.3	71.3
Bypass	kaf	0.0	0.0	0.0	0.0	0.0	0.0	87.2	54.7	61.3	43.7	0.0	0.0
Maximum generation	gwh	28.346	26.712	27.606	18.490	12.711	16.013	20.829	27.606	26.712	27.606	27.606	26.712
Actual generation	gwh	5.590	5.401	5.590	5.590	5.057	10.647	20.829	27.606	26.712	27.606	15.876	12.264
Percent max generation		20.	20.	20.	30.	40.	66.	100.	100.	100.	100.	58.	46.
Average kwh/af		172.	172.	172.	172.	172.	172.	172.	172.	172.	172.	172.	172.
Fremont Canyon													
Turbine Release	kaf	2.1	25.6	26.3	26.3	23.8	35.2	73.4	66.7	81.8	169.1	167.1	126.0
Bypass	kaf	4.6	4.5	4.6	4.6	4.2	4.6	4.5	4.6	82.8	5.8	4.6	4.5
Maximum generation	gwh	21.370	20.790	21.507	21.548	19.533	21.745	21.589	23.237	22.847	47.274	47.254	45.666
Actual generation	gwh	0.531	6.506	6.694	6.707	6.085	9.058	19.372	18.342	22.847	47.274	46.695	35.171
Percent max generation		2.	31.	31.	31.	31.	42.	90.	79.	100.	100.	99.	77.
Average kwh/af		253.	254.	255.	255.	256.	257.	264.	275.	279.	280.	279.	279.
Alcova Power Plant													
Turbine Release	kaf	30.9	29.8	30.7	30.7	27.8	39.4	53.6	60.3	151.2	156.3	156.3	122.4
Bypass	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Maximum generation	gwh	27.182	26.588	27.472	13.736	12.403	13.736	26.275	27.552	26.656	27.552	27.552	26.656
Actual generation	gwh	4.268	4.053	4.175	4.175	3.781	5.358	7.397	8.442	21.168	21.882	21.882	17.136
Percent max generation		16.	15.	15.	30.	30.	39.	28.	31.	79.	79.	79.	64.
Average kwh/af		138.	136.	136.	136.	136.	136.	138.	140.	140.	140.	140.	140.
Glendo Power Plant													
Turbine Release	kaf	0.0	0.0	0.0	0.0	0.0	0.1	19.3	190.1	228.1	225.1	221.4	114.5
Bypass	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.5	38.4	80.7	56.7	1.5
Maximum generation	gwh	14.815	8.444	19.517	20.721	19.843	23.343	24.432	26.910	25.728	23.558	19.306	15.421
Actual generation	gwh	0.000	0.000	0.000	0.000	0.000	0.010	2.109	21.603	25.728	23.558	19.306	8.526
Percent max generation		0.	0.	0.	0.	0.	0.	9.	80.	100.	100.	100.	55.
Average kwh/af		0.	0.	0.	0.	0.	100.	109.	114.	113.	105.	87.	74.
Guernsey Power Plant													
Turbine Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	22.6	59.6	57.7	59.6	59.6	61.4
Bypass	kaf	0.3	0.3	0.2	0.4	0.3	0.3	0.4	160.3	229.9	246.4	220.4	68.6
Maximum generation	gwh	1.099	2.025	1.291	3.053	2.809	3.137	3.124	3.302	3.197	3.302	3.302	2.837
Actual generation	gwh	0.000	0.000	0.000	0.000	0.000	0.000	1.187	3.302	3.197	3.302	3.302	2.837
Percent max generation		0.	0.	0.	0.	0.	0.	38.	100.	100.	100.	100.	100.
Average kwh/af		0.	0.	0.	0.	0.	0.	53.	55.	55.	55.	55.	46.

Glossary

Annual Operating Plan (AOP) - An annual publication which is prepared, reviewed, and presented to the public, with a summary of the actual operations and outlook for the coming Water year.

Acre-Foot (AF) - A measure of volume of water equal to an area of 1 acre covered with water 1 foot deep. (43,560 cubic feet)

Basin - The watershed from which overland runoff flows into the North Platte River. When used alone in this report it refers to the North Platte River Drainage Basin upstream of Guernsey Dam.

Bypass - That amount of water released from a reservoir other than through the powerplant for those reservoirs which have a powerplant connected to them.

Cubic foot per second (cfs) - 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 AF, or 646,272 gallons.

Evaporation pool - A volume of water set aside in the accounting process from which reservoir evaporation is subtracted as it occurs. (Used in Glendo storage accounting).

Flood pool - A physical space in the reservoir which is to be occupied only by water from flood events. In Glendo Reservoir, the volume between reservoir elevations 4635.0 feet and 4653.0 feet is reserved exclusively for flood control.

Gains - Water which enters a river in a defined reach from a source other than an upstream release. When flow released into a reach is greater than the river flow exiting the lower end of the reach, the net gain is negative (loss of water in the reach).

Giga Wattt hour (GWh) - A unit of power equal to one billion watt hours.

Head - The difference in elevation between the reservoir water surface and the power generating turbines at a powerplant which is connected to a reservoir.

Hydromet - Computer software designed for the acquisition, processing, storage and retrieval of hydrological and meteorological data which is gathered via satellite from remote sites.

Inflow - As used in this report is any water which enters a reservoir irrespective of whether it originated in the reach or was released from an upstream storage reservoir.

Glossary (continued)

Inland Lakes - A series of four off-stream storage reservoirs on the Interstate Canal system in Nebraska which are used to store and re-release irrigation water. (Lake Alice, Lake Minatare, Little Lake Alice, and Lake Winters Creek).

Megawatt (MW) – A unit of power equal to one million watts.

Natural flow - River flow which has originated from a source other than reservoir storage.

NRCS. – The Natural Resources Conservation Service which is a government agency under the Department of Agriculture.

Power pool - That space in a reservoir which must be full in order to efficiently generate electrical power through an associated turbine generator.

Precipitation - A deposit on the earth of hail, mist, rain, sleet, or snow.

Runoff - That part of precipitation on the Basin which appears as flow in the North Platte River.

Silt Run - The name given to the practice of flushing silt from Guernsey Reservoir into the North Platte River downstream where the silt laden water is diverted by irrigators. The silt tends to settle in the slower moving water of canals and laterals helping to seal the wetted perimeter and reduce seepage losses.

SNOTEL - Snowpack telemetry network. A network of NRCS automated sites which continually monitor snowpack and weather conditions and transmit data to a data retrieval center in Portland, Oregon.

System - As used in the report the System includes all storage, delivery, and power generating facilities on the mainstem of the North Platte River in Wyoming.

SWE – Snow Water Equivient is the amount of water in the snowpack expressed in inches.

Water Year - October 1 through September 30.

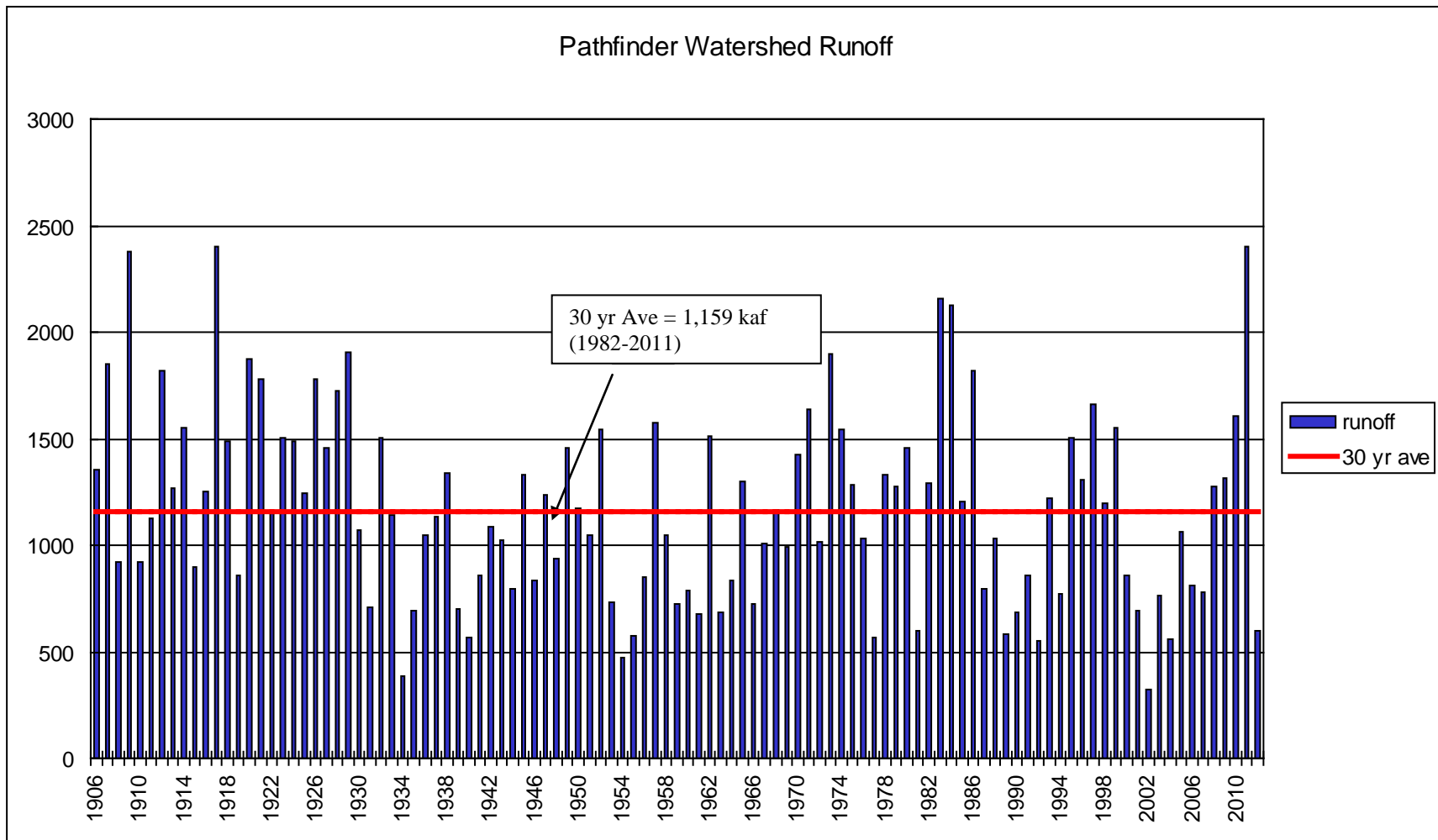


Figure 20 Pathfinder Watershed Runoff 1906-2012

Reservoir Data Definitions Sheets

A. **General:**

Dam design and reservoir operation utilize reservoir capacity and water surface elevation data. To insure uniformity in the establishment, use, and publication of these data the following standard definitions of water surface elevations and reservoir capacities shall be used.

B. **Water Surface Elevation Definitions:**

Maximum Water Surface - the highest acceptable water surface elevation with all factors affecting the safety of the structure considered. Normally it is the highest water surface elevation resulting from a computed routing of the inflow design flood through the reservoir on the basis of established operating criteria. It is the top of surcharge capacity.

Top of Exclusive Flood Control Capacity - the reservoir water surface elevation at the top of the reservoir capacity allocated to exclusive use for the regulating of flood inflows to reduce damage downstream.

Maximum Controllable Water Surface Elevation -the highest reservoir water surface elevation at which gravity flows from the reservoir can be completely shut off.

Top of Joint Use Capacity - the reservoir water surface elevation at the top of the reservoir capacity allocated to joint use, i.e., flood control and conservation purposes.

Top of Active Conservation Capacity - the reservoir water surface elevation at the top of the capacity allocated to the storage of water for conservation purposes only.

Top of Inactive Capacity -the reservoir water surface elevation below which the reservoir will not be evacuated under normal conditions.

Top of Dead Capacity - the lowest elevation in the reservoir from which water can be drawn by gravity.

Streambed at the Dam Axis - the elevation of the lowest point in the streambed at the axis of the dam prior to construction. This elevation normally defines the zero for the area-capacity tables.

C. **Capacity Definitions:**

Surcharge Capacity - the reservoir capacity provided for use in passing the inflow design flood through the reservoir. It is the reservoir capacity between the maximum water surface elevation and the highest of the following elevations:

- a) Top of exclusive flood control capacity
- b) Top of joint use capacity
- c) Top of active conservation capacity

Total Capacity - the reservoir capacity below the highest of the elevations representing the top of exclusive flood control capacity, the top of joint use capacity, or the top of active conservation capacity. In the case of a natural lake which has been enlarged, the total capacity includes the dead capacity of the lake. Total capacity is used to express the total quantity of water which can be impounded and is exclusive of surcharge capacity.

Live Capacity - the part of the total capacity from which water can be withdrawn by gravity. It is equal to the total capacity less the dead capacity.

Active Capacity - the reservoir capacity normally usable for storage and regulation of reservoir inflows to meet established reservoir operating requirements. Active capacity extends from the highest of the top of exclusive flood control capacity, the top of joint use capacity, or the top of active conservation capacity to the top of inactive capacity. It is the total capacity less the sum of the inactive and dead capacities.

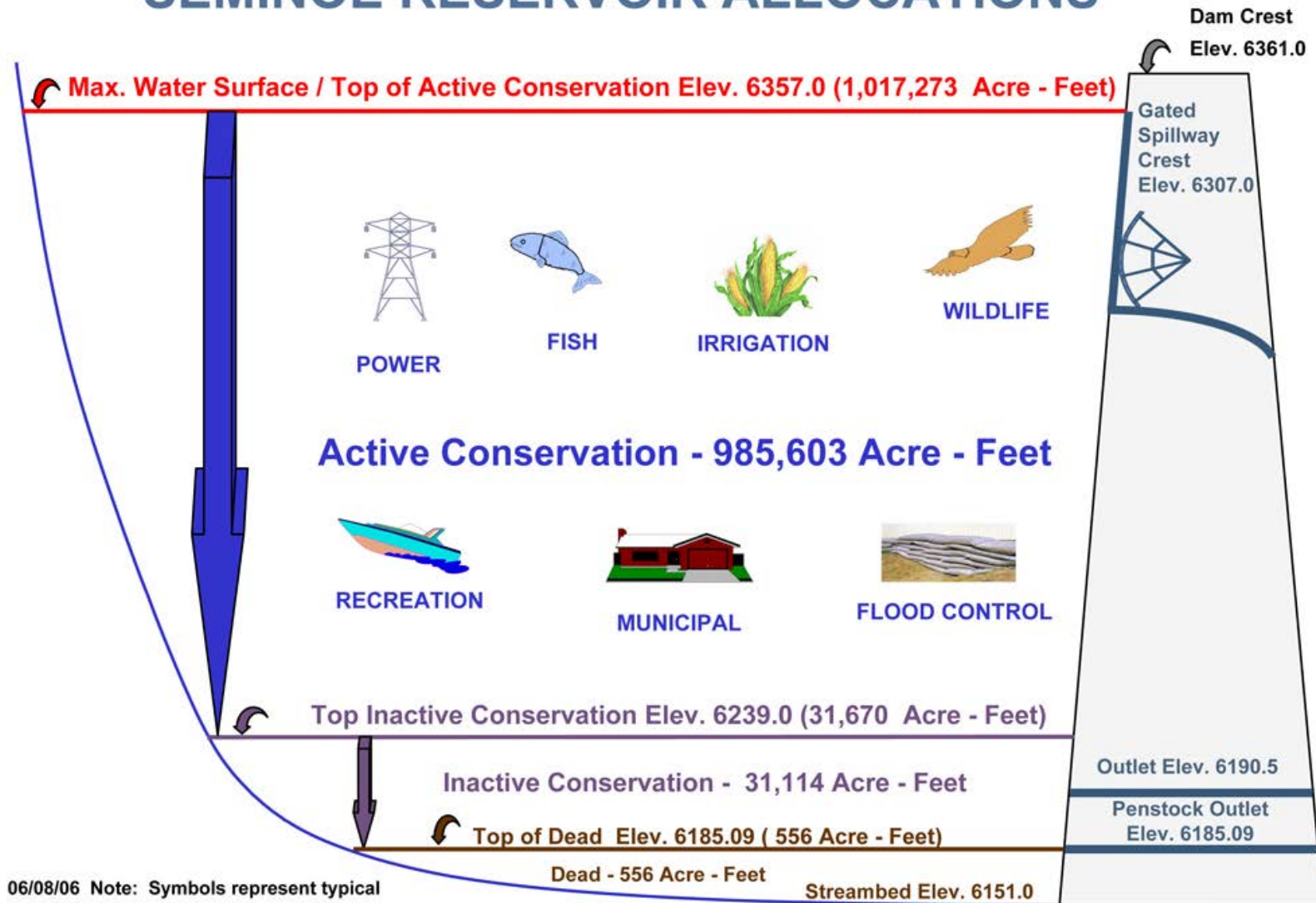
Exclusive Flood Control Capacity - the reservoir capacity assigned to the sole purpose of regulating flood inflows to reduce flood damage downstream.

Joint Use Capacity - the reservoir capacity assigned to flood control purposes during certain periods of the year and to conservation purposes during other periods of the year.

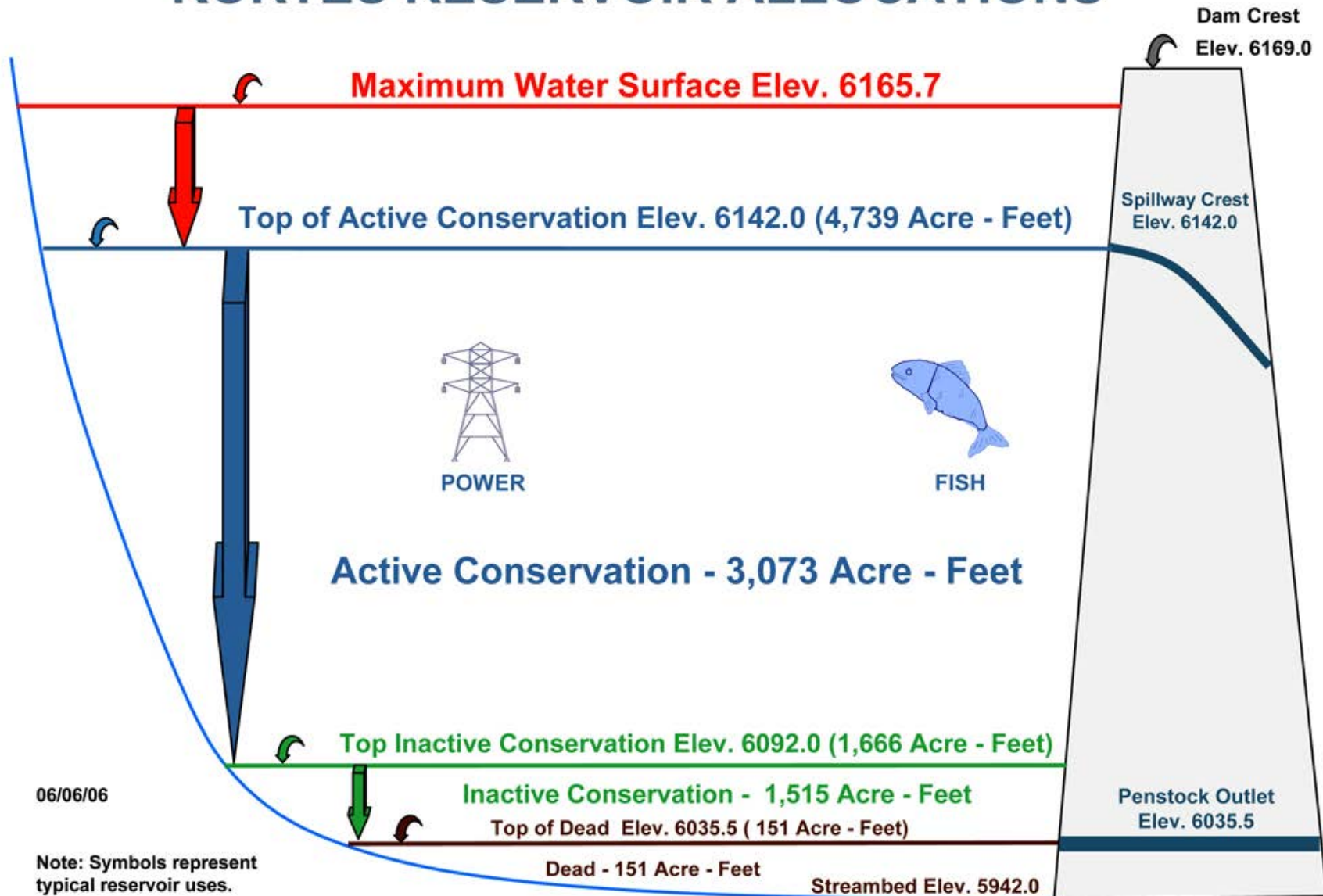
Active Conservation Capacity - the reservoir capacity assigned to regulate reservoir inflow for irrigation, power, municipal, and industrial, fish and wildlife, navigation, recreation, water quality, and other purposes. It does not include exclusive flood control or joint use capacity. The active conservation capacity extends from the top of the active conservation capacity to the top of the inactive capacity.

Reservoir Allocation Sheets

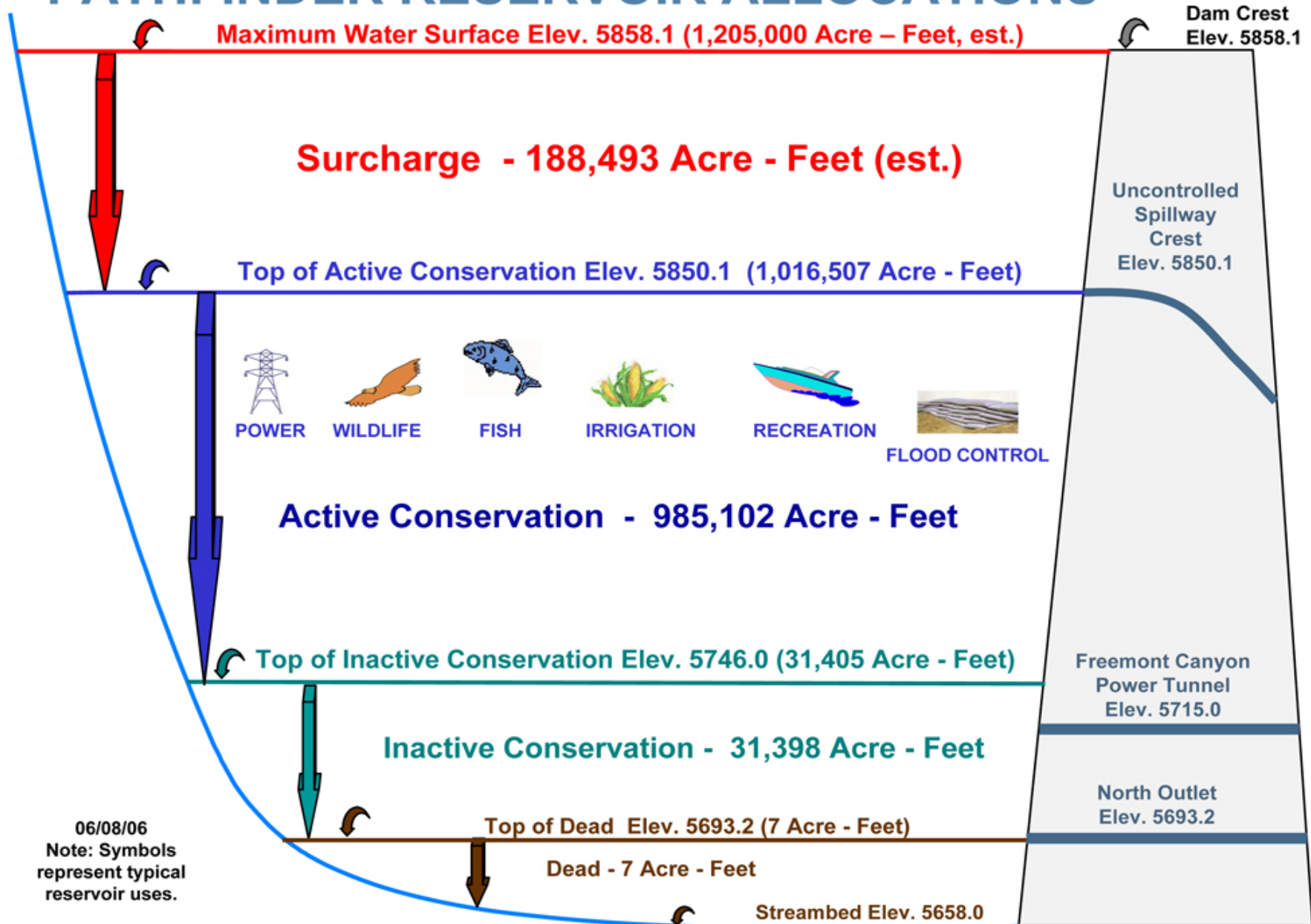
SEMINOE RESERVOIR ALLOCATIONS



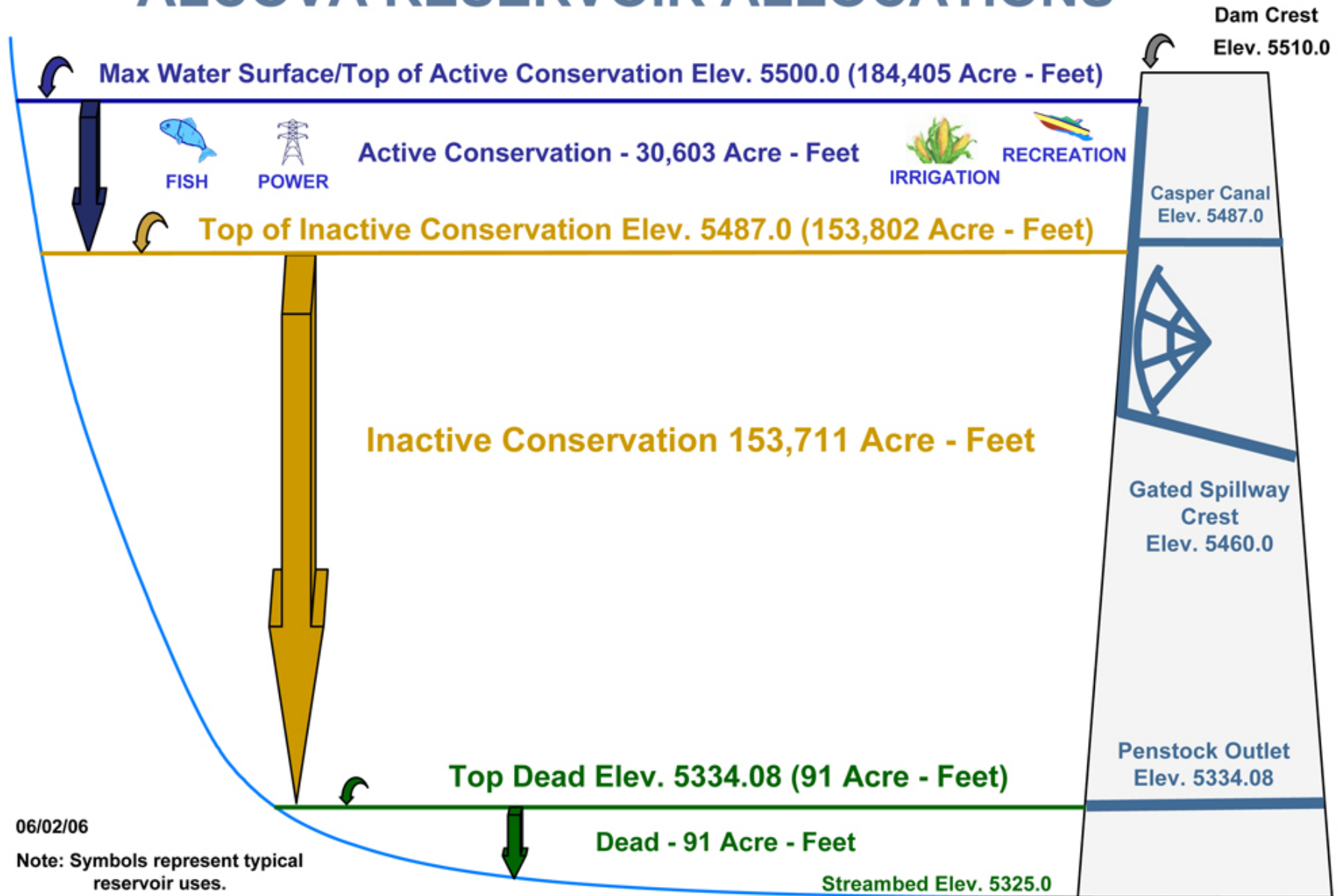
KORTES RESERVOIR ALLOCATIONS



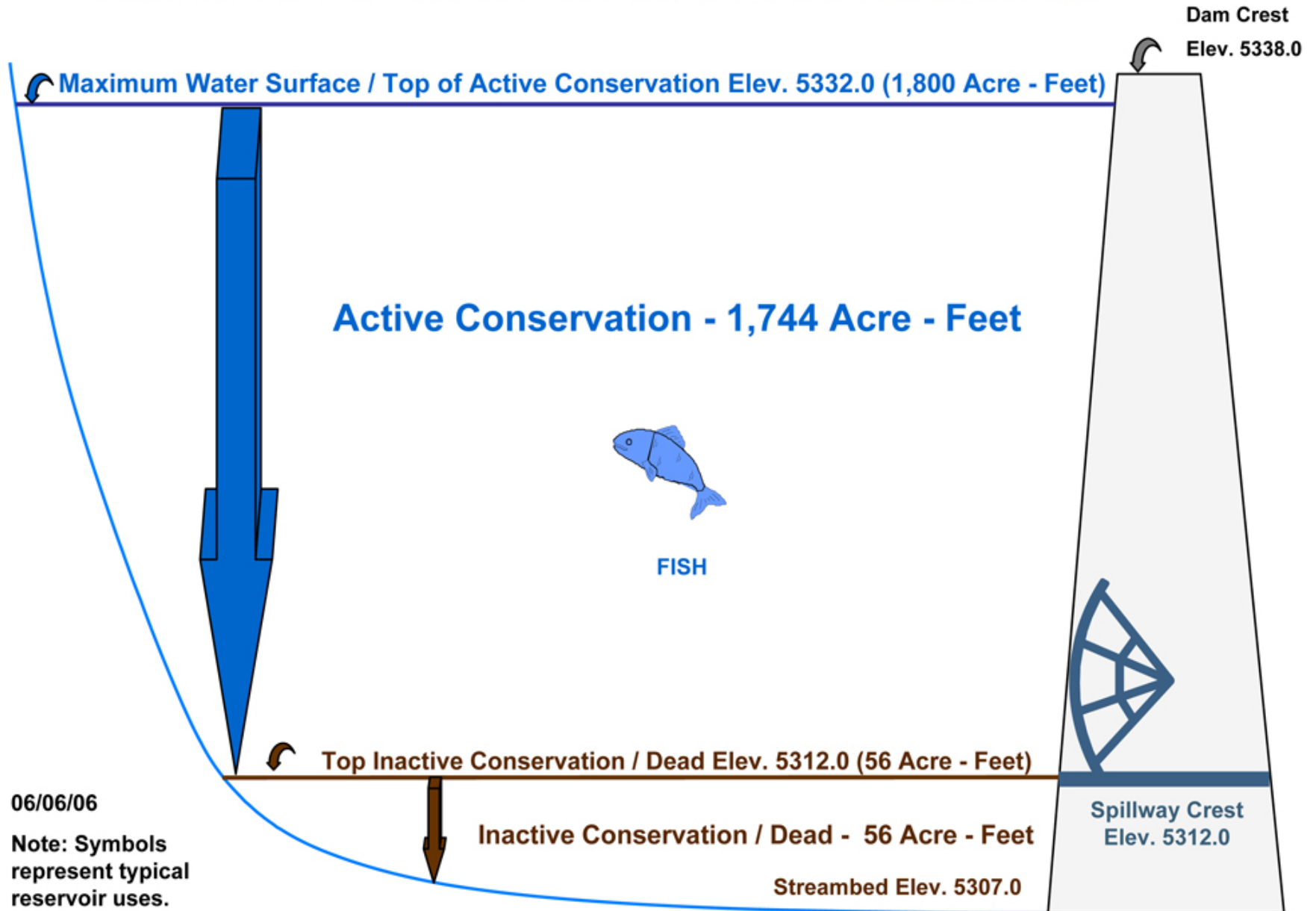
PATHFINDER RESERVOIR ALLOCATIONS

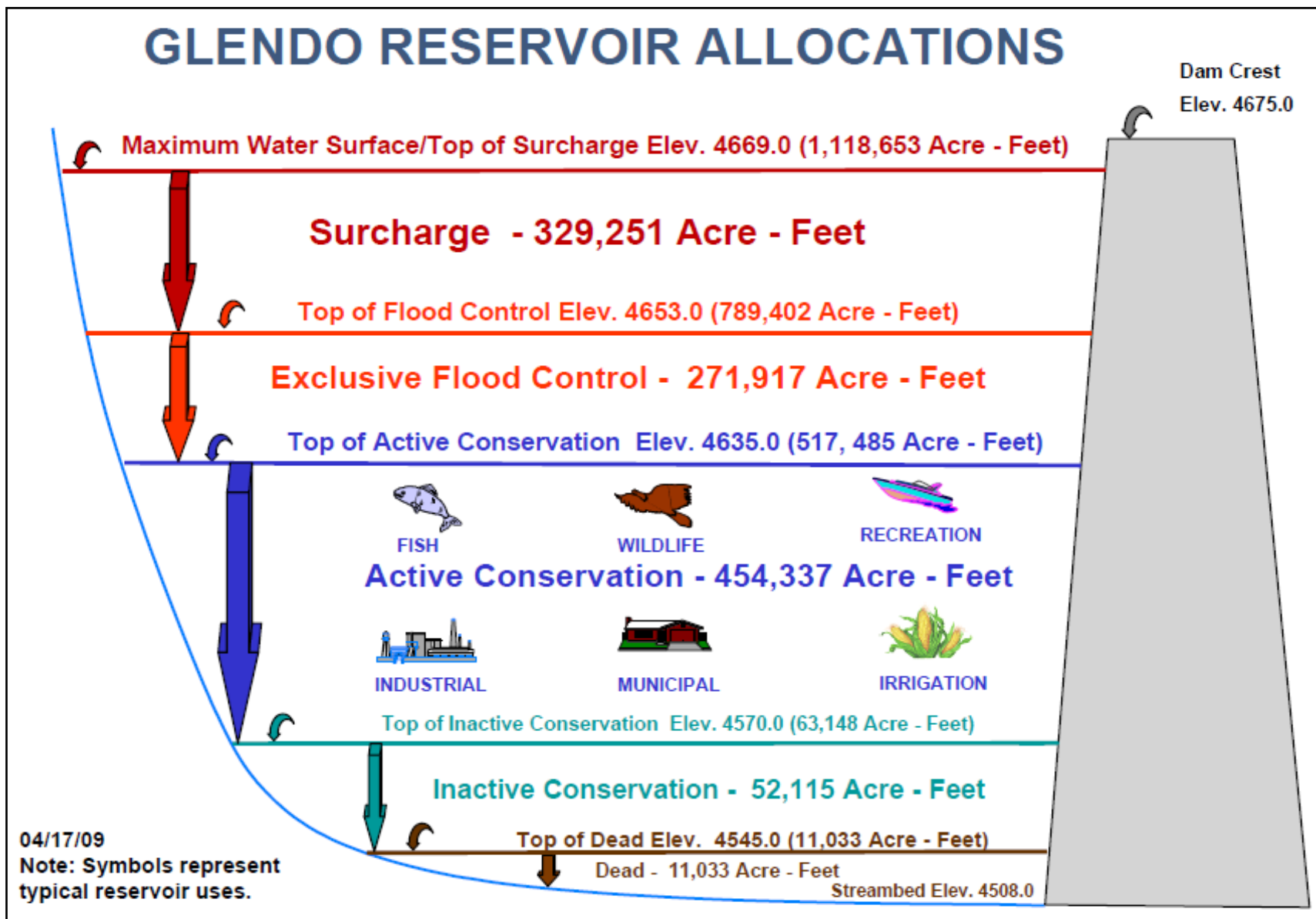


ALCOVA RESERVOIR ALLOCATIONS



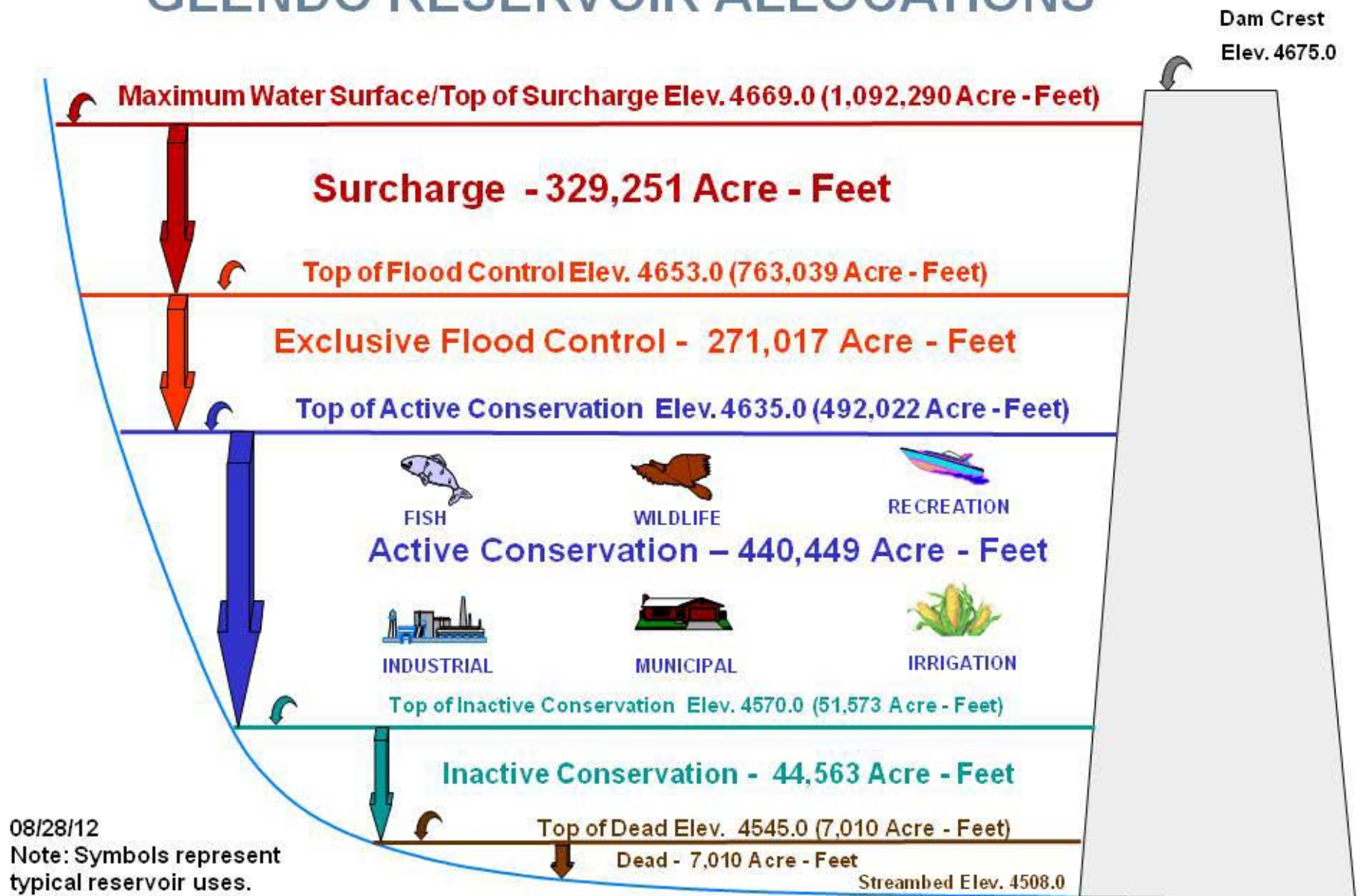
GRAY REEF RESERVOIR ALLOCATIONS





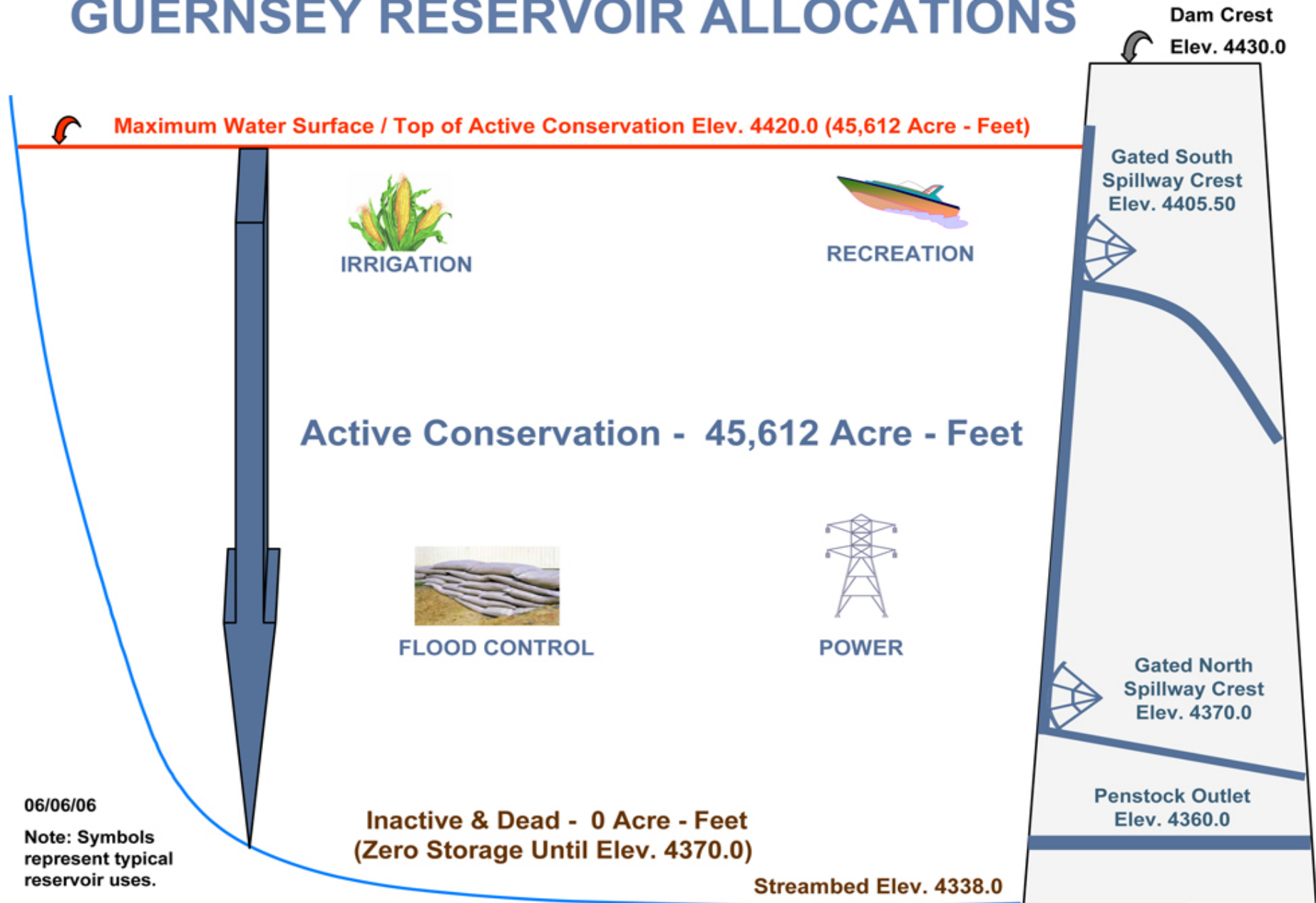
Glendo Reservoir Allocations used for Water Year 2012

GLENDO RESERVOIR ALLOCATIONS

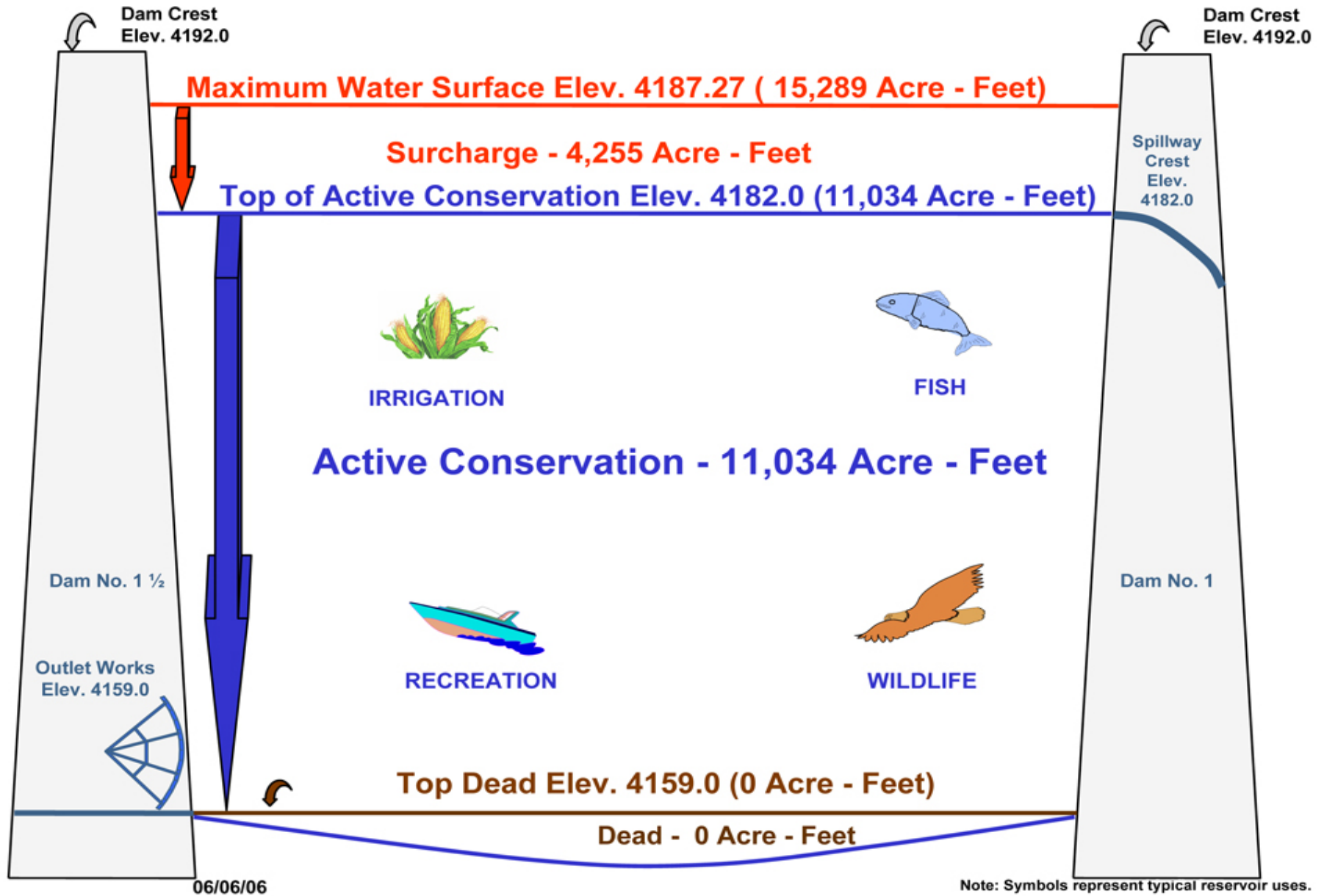


Glendo Reservoir Allocations used for Water Year 2013 – Decreased capacity due to silt.

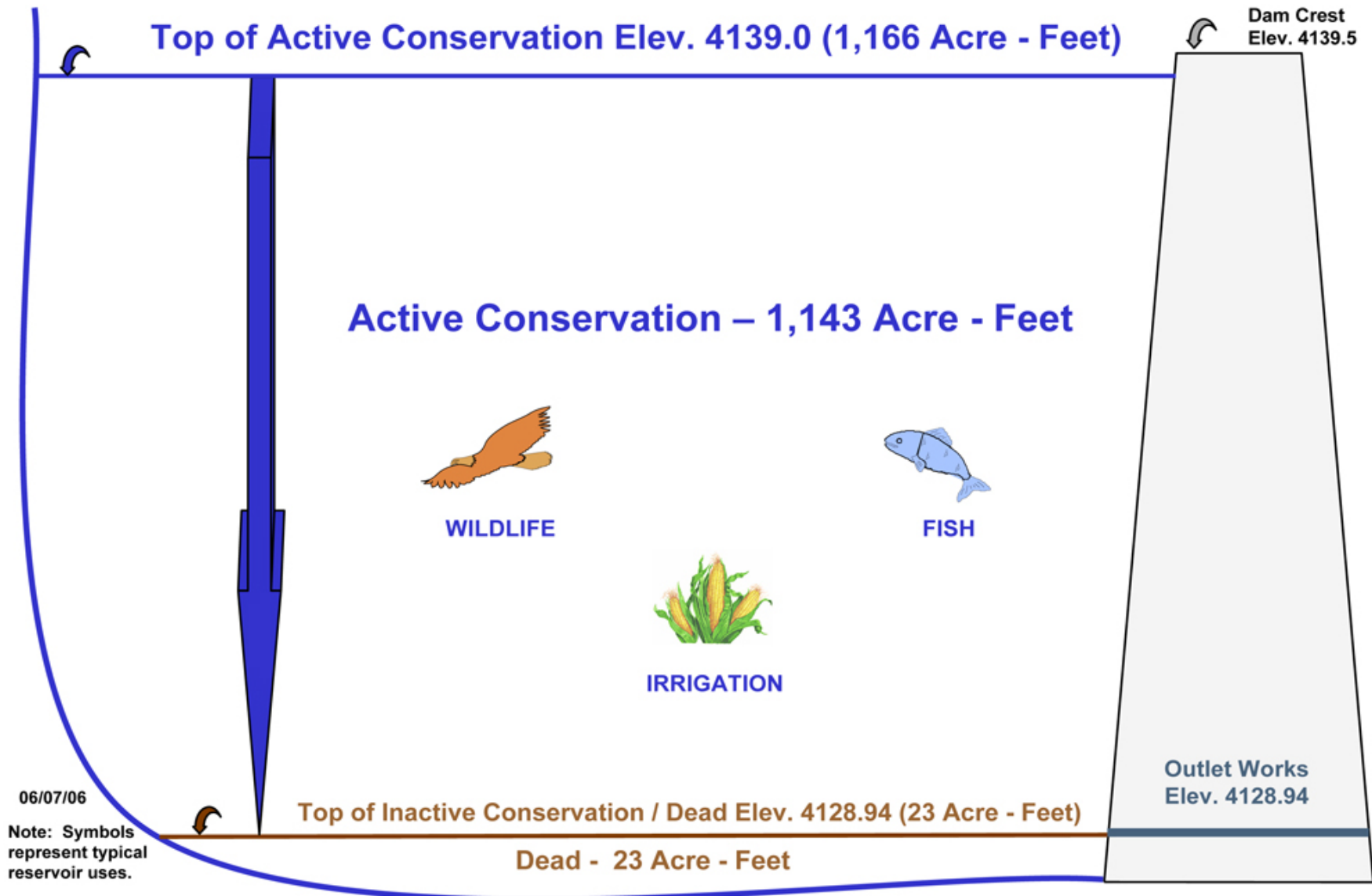
GUERNSEY RESERVOIR ALLOCATIONS



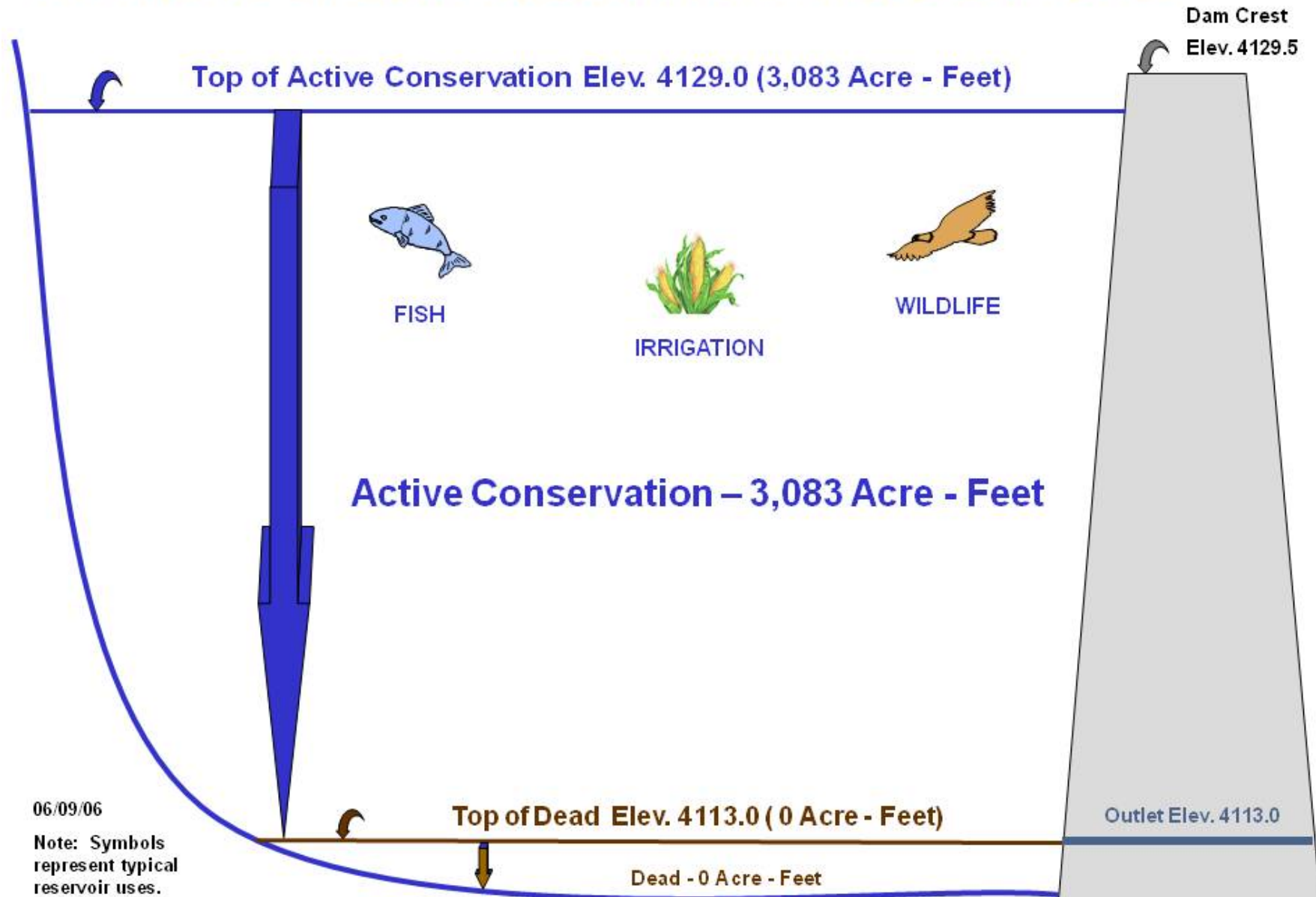
LAKE ALICE RESERVOIR ALLOCATIONS



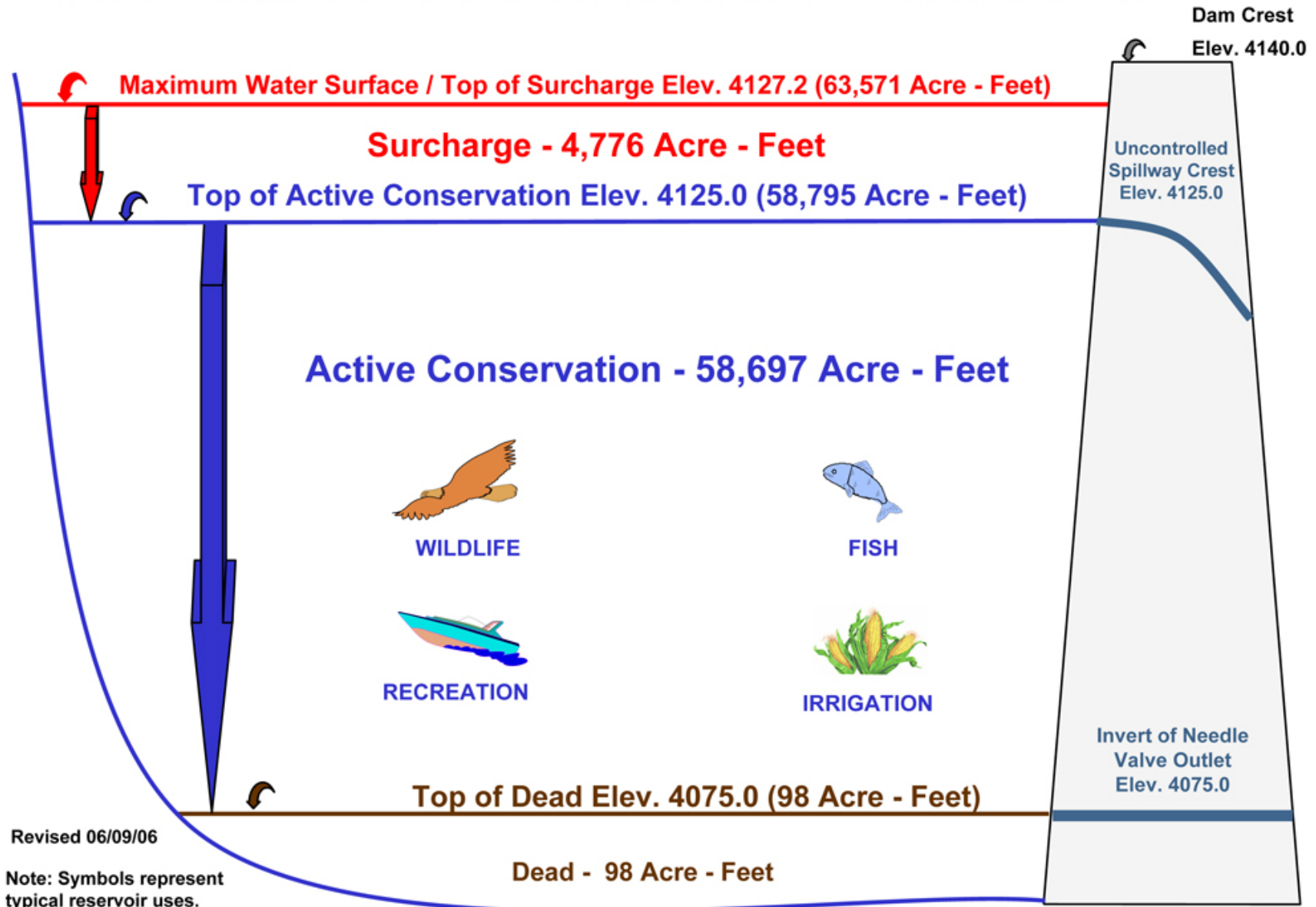
LITTLE LAKE ALICE RESERVOIR ALLOCATIONS

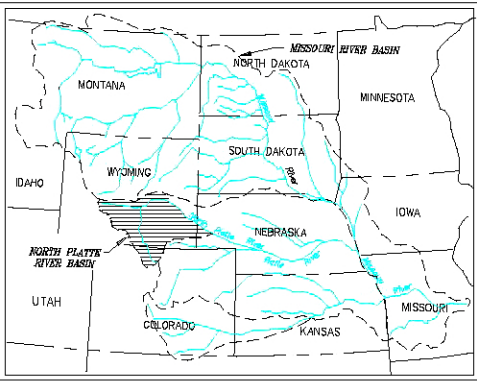
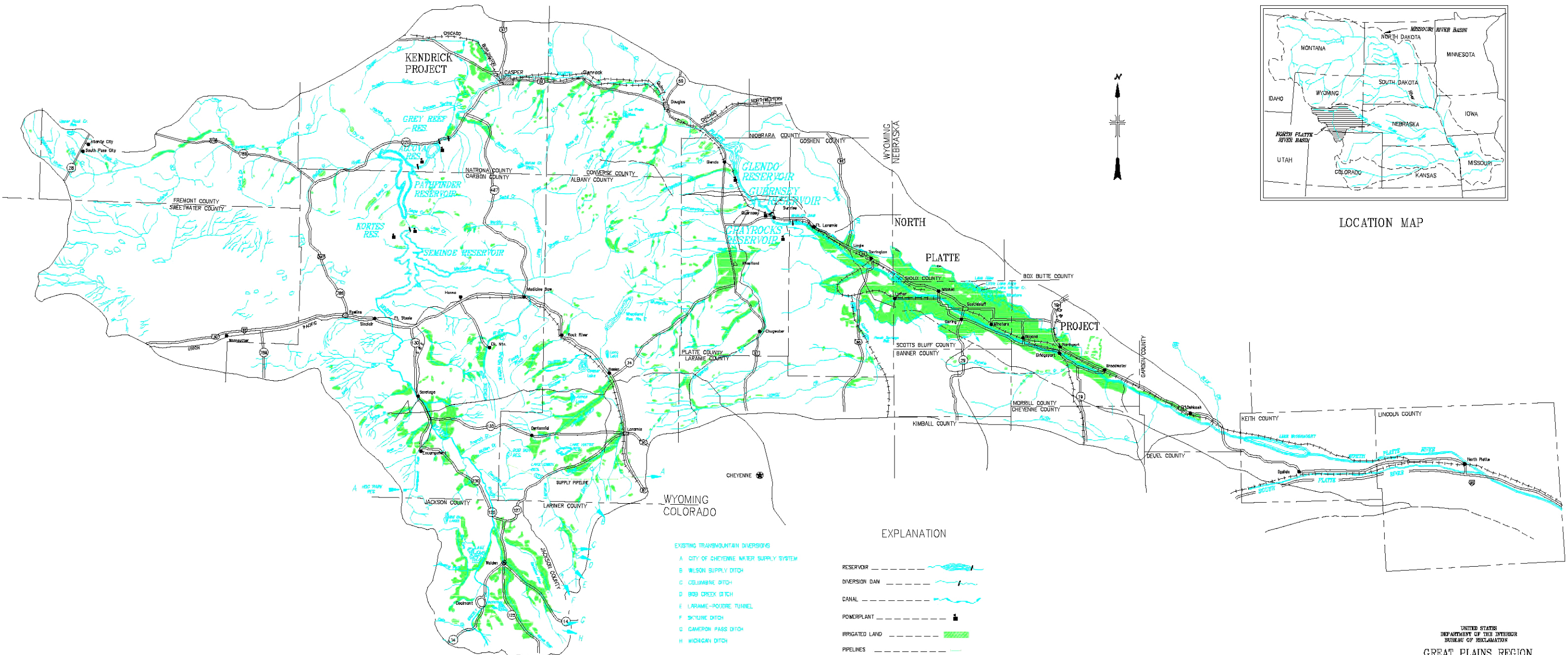


WINTERS CREEK RESERVOIR ALLOCATIONS



LAKE MINATARE RESERVOIR ALLOCATIONS





LOCATION MAP

- EXISTING TRANSMOUNTAIN DIVERSIONS
- A CITY OF CHEYENNE WATER SUPPLY SYSTEM
 - B WILSON SUPPLY DITCH
 - C COLUMBINE DITCH
 - D BOB CREEK DITCH
 - E LARAMIE-POUDRE TUNNEL
 - F SKYLINE DITCH
 - G CAMERON PASS DITCH
 - H MIDGARD DITCH

EXPLANATION

- RESERVOIR
- DIVERSION DAM
- CANAL
- POWERPLANT
- IRRIGATED LAND
- PIPELINES

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION
GREAT PLAINS REGION
NORTH PLATTE RIVER BASIN
ABOVE LAKE McCONAUGHY
COLORADO - NEBRASKA - WYOMING

REVISED MAY, 1992 MAP NO. 220-700-28

