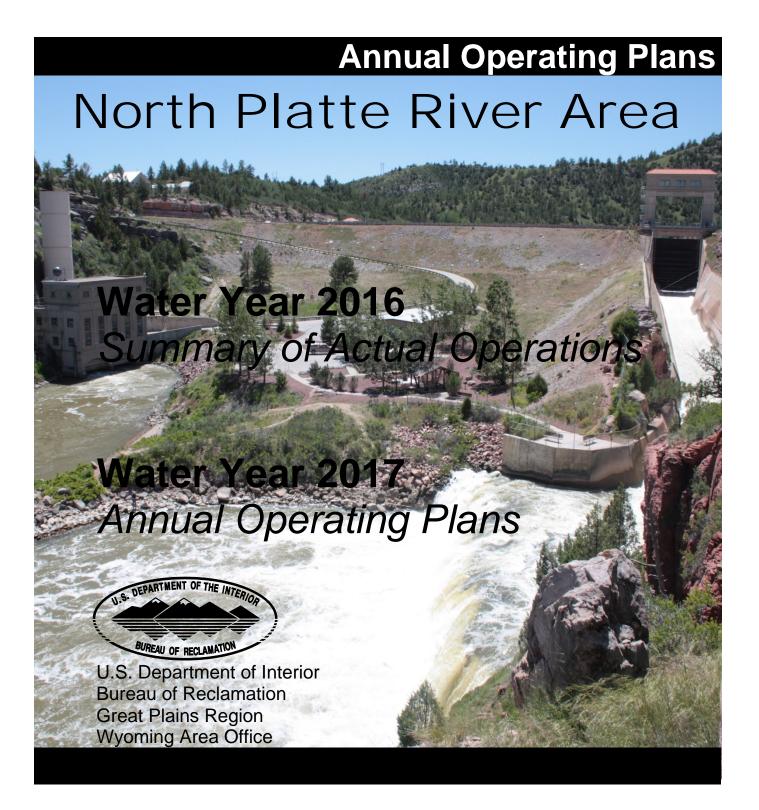
RECLAMATION

Managing Water in the West



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PREFACE

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

References to average in this document will refer to the average of the historical record for the years 1986-2015, except for water year (WY) 2017 information which uses the years 1987-2016.

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 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 System streamflow above Seminoe Dam occurs from snowmelt runoff during the April to 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 2016. 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 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, 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 contributing rivers of the water supply in the System are the North Platte River in Colorado, the Medicine Bow River, and Sweetwater River in Wyoming.

The System has seven main stem reservoirs, six of which have powerplants with generating capacities totaling 239,200 kilowatts (kw). Table 12 depicts a breakdown of generating units and their capacity for each North Platte Powerplant. 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 (WAPA) 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 WAPA.

Table 1 North Platte River Reservoir Data

	Dead				
Reservoir	Storage 1	Active	Total	Minimum	Minimum
(Date Completed)	Acre-feet	Storage ²	Storage	Storage	Elevation
	(AF)	(AF)	(AF)	(AF)	(feet)
Seminoe (1939)	556	1,016,717	1,017,273	31,670 4	6,239.00 ⁴
Kortes (1951)	151	4,588	4,739	1,666 4	6,092.00 4
Pathfinder (1909)	7	1,069,993	1,070,000	31,405 4	5,746.00 ⁴
Alcova (1938)	91	184,314	184,405	137,610 5	5,479.50 ⁵
Gray Reef (1961)	56	1,744	1,800	56 ⁶	5,312.00 ⁶
Glendo (1958)	7,010	756,029	763,039 ³	51,573	4,570.00 ⁷
Guernsey (1927)	0	45,612	45,612	0	4,370.00 8
Total	7,871	3,078,997	3,086,868	253,980	

Storage capacity below elevation of lowest outlet

² Total storage minus dead storage

³ Top of Conservation capacity 492,022 AF (Elevation 4,635.00 ft) with an additional 271,017 AF allocated to Flood Control (elevation 4,653.00 ft)

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

Ontent and minimum elevation required for power generation, however, water cannot be delivered to Casper Canal when reservoir level is below 5,487.00 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 System 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. 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 WYAO. WYAO 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 in 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 2016. Table 2 depicts A Summary of Reservoir Storage Content for water year (WY) 2016. Table 9 depicts the Actual Reservoir Operations for WY 2016.

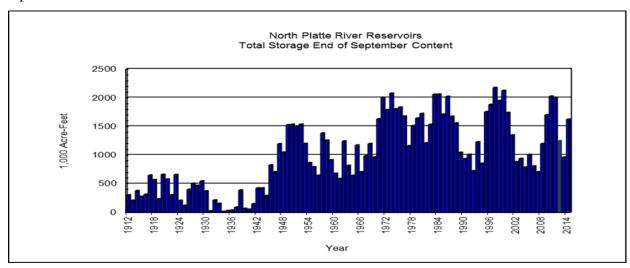


Figure 1 North Platte River Reservoirs Total Storage End of September Content (1912-2016)

 Table 2 Summary of Reservoir Storage Content for Water Year 2016 (End of Month)

Seminoe Re	•	Pathfinder R			Alcova Reser		
Month	Storage	Month		Storage	Month	Storage	
October	795,586	October		781,882	October	156,696	
November	766,952	November		796,648	November	156,922	
December	738,563	December		819,200	December	157,373	
January	710,935	January		847,458	January	156,673	
February	698,562	February		865,889	February	156,673	
March	707,599	March		865,099	March	157,758	
April	744,547	April		925,145	April	179,985	
May	868,123	May		1,089,556	May	180,059	
June	908,068	June		1,064,242	June	180,816	
July	865,082	July		970,118	July	180,791	
August	820,458	August		895,277	August	180,669	
September	797,761	September 873,420		September	180,523		
Glendo Rese	ervoir	Guernsey Re	ese	rvoir	Total System ¹		
Month	Storage	Month	S	torage	Month	Storage	
October	171,085	October		9,343	October	1,919,319	
November	206,835	November		12,299	November	1,944,385	
December	241,138	December		15,243	December	1,976,240	
January	281,825	January		18,247	January	2,019,859	
February	322,077	February		21,311	February	2,069,365	
March	383,482	March		25,631	March	2,144,293	
April	472,433	April		35,552	April	2,362,385	
May	558,226	May		30,260	May	2,731,389	
June	581,449	June		31,159	June	2,770,465	
July	419,624	July		4,001	July	2,444,338	
August	225,168	August		27,906	August	2,154,197	
September	152,642	September		0	September	2,009,073	

¹ Total North Platte system includes storage in Seminoe, Kortes, Pathfinder, Alcova, Gray Reef, Glendo and Guernsey Reservoirs

SYSTEM OPERATIONS WATER YEAR 2016

Seminoe Reservoir Inflow

Seminoe Reservoir inflows were above the 30 year average for WY 2016. A total of 1,244,400 acre-feet (AF) or 133 percent of the 30 year average entered the System above Seminoe Reservoir during WY 2016 The monthly inflows ranged from a high of 189 percent of average in May 2016 to a low of 65 percent in August 2016. The actual April through July 2016 inflow totaled 1,029,700 AF, which was 149 percent of the 30 year average of 690,000 AF. The Seminoe Reservoir computed inflow peaked on June 10, 2016 at 10,357 cubic feet per second (cfs). Figure 2 depicts a comparison of average WY 2015 and WY 2016 monthly inflows.

² 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)

Seminoe Reservoir Inflow

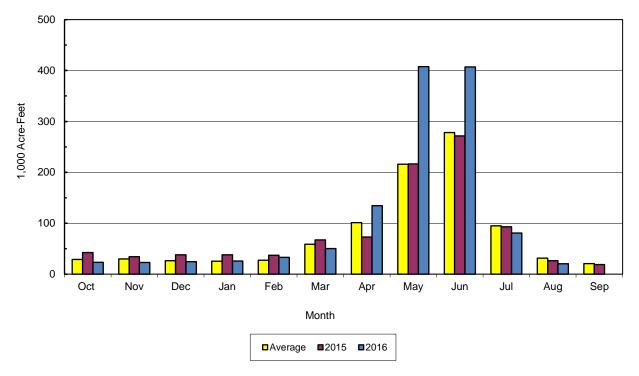


Figure 2 Seminoe Reservoir Inflow

Seminoe Reservoir Storage and Releases

Seminoe 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 42 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 WY 2016 Seminoe Reservoir had a storage content of 809,045 AF, which was 137 percent of average and 80 percent of capacity. The maximum Seminoe Reservoir content was reached on June 17, 2016 at 928,872 AF. At the end of WY 2016 Seminoe Reservoir storage content was 797,761 AF, which was 135 percent of average and 78 percent of capacity. See Figure 3 for a comparison of average WY 2015 and WY 2016 monthly storage.

Releases from Seminoe Dam averaged approximately 530 cfs in October 2015. The release was increased to approximately 850 cfs in early November 2015 to a maximum of 7,582 cfs on June 8, 2016. The release was approximately 1,200 cfs at the beginning of August 2016 and decreased to 530 cfs by the end of August 2016. The flows remained at 530 cfs through September 2016. Table 3 depicts a summary of Seminoe Reservoir information for WY 2016.

 Table 3 Seminoe Reservoir Hydrologic Data for Water Year 2016

Reservoir Allocations	Elevation (FT)	Storage (AF)	Storage Allocation (AF)
Top of Inactive and Dead	6,239.00	31,670	31,670
Top of Active Conservation	6,357.00	1,017,273	985,603
Crest of Dam (without	6,361.00		
Camber)			

Storage-Elevation Data	Elevation (FT)	Storage (AF)	Date
Beginning of water year	6,345.80	809,045	Oct 1, 2015 ²
End of water year	6345.13	797,761	Sep 30, 2016
Annual Low	6338.75	696,766	Feb 22, 2016
Historic Low ¹	6,253.30	56,390	Apr 20, 1961
Annual High	6,352.49	928,872	Jun 17, 2016
Historic High ¹	6,359.29	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)	1,244,400	Oct' 15 – Sep' 16	1,199,391	Oct' 15 – Sep' 16
Daily Peak (CFS)	10,357	Jun 10, 2016	7,582 4	Jun 8, 2016
Daily Minimum (CFS)	6	Sep 6, 2016	525 ⁴	Oct 29, 2015
		•		

³ Inflows are a computed number.
⁴ Daily peak and minimum are releases to the river.

Month	I	nflow	(Outflow	Co	ontent ⁶
	KAF	% of Avg. ⁵	KAF	% of Avg. ⁵	KAF	% of Avg. ⁵
October	23.1	80	33.2	84	795.6	137
November	22.9	76	47.6	115	767.0	136
December	24.6	94	52.4	114	738.6	135
January	25.9	102	51.8	110	710.9	136
February	33.1	123	43.6	90	698.6	140
March	50.2	85	40.6	65	707.6	143
April	134.5	133	95.7	104	744.5	149
May	407.5	189	277.9	254	868.1	144
June	407.0	146	356.2	237	908.1	125
July	80.7	85	112.3	90	865.1	126
August	20.4	65	55.8	66	820.5	131
September	14.6	71	32.1	64	797.8	135
Annual	1,244.5	133	1,199.2	134		

⁵ The 30 year average is the period (1986-2015) ⁶ End of month

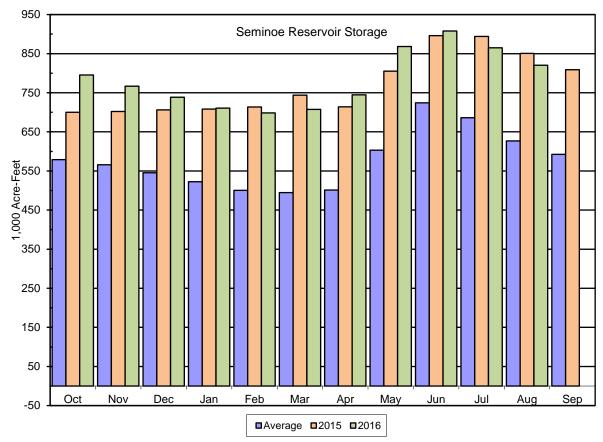


Figure 3 Seminoe Reservoir Storage

Kortes Reservoir Storage and Releases

Completed in 1951, Kortes Dam, Reservoir, and Powerplant of the Kortes Unit PS-MBP are located about 2 miles below Seminoe Dam. It was the first unit initiated by Reclamation under the Missouri River Basin Project. Kortes Reservoir provides a total storage capacity of 4,739 AF at an elevation of 6,142.0 feet which is the level of the spillway crest. Kortes Powerplant has three electrical generating units with a total capacity of 40 MW and a release capability of approximately 2,700 cfs. Water released from Seminoe 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 Seminoe 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 Ninetieth 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 530 cfs in October 2015 and increased to approximately 850 cfs early November 2015 through late February 2016. A decrease was made late February 2016 to approximately 580 cfs and then increased later in March 2016 to approximately 850 cfs. The Kortes Dam release peaked at 7,580 cfs on June 8, 2016. Releases were decreased to approximately 3,100 cfs by the end of June 2016 and decreased to approximately 1,200 cfs on July 23, 2016 which continued into August 2016. By the end of August 2016 the flows through Kortes Powerplant were approximately 530 cfs.

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

Kortes Dam to Pathfinder Dam river gains were below average for nine months of WY 2016, and ranged from 202 percent of average in May 2016 to 28 percent of average in August 2016. The gain in July 2016 was negative, making a comparison to average meaningless. The April through July 2016 river gains were 74,700 AF, which is 108 percent of the 30 year average of 69,100 AF. Figure 4 depicts a comparison of average WY 2015 and WY 2016 monthly river gains.

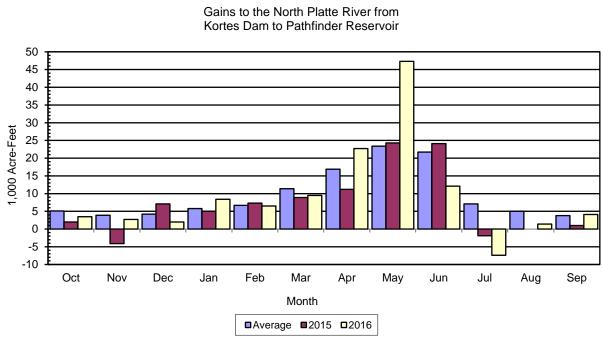


Figure 4 Gains to the North Platte River from Kortes Dam to Pathfinder Reservoir

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 an elevation of 5,852.49 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 an elevation of 5,852.49 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 3,080 cfs can be released through the Fremont Canyon Power conduit and discharged from the Fremont Canyon turbines at the

Powerplant 3 miles downstream. Reconditioning of Unit 2 of the Fremont Canyon Powerplant was completed in August 2012. Reconditioning of Unit 1 was completed late July 2013. The 33.4 MW nameplate rating of the 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 an elevation of 5,852.49 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 5,852.49 feet. The calculated discharge capacity of the spillway is 32,449 cfs at a reservoir elevation of 5,858.10 feet.

At the start of WY 2016 storage in Pathfinder Reservoir was 758,882 AF which was 157 percent of average and 71 percent of capacity. Pathfinder storage was above the 30 year average for WY 2016. The maximum Pathfinder Reservoir content peaked on June 2, 2016 at 1,093,275 AF which is 102 percent of capacity. Pathfinder Reservoir ended WY 2016 with 873,420 AF of water in storage which was 180 percent of average and 82 percent of capacity. A continual release of water from Pathfinder Reservoir during October 2015 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. The river below Pathfinder Dam reached a maximum flow of 6,029 cfs on June 7, 2016. Table 4 depicts a summary of Pathfinder Reservoir information for WY 2016.

Pathfinder Reservoir Storage

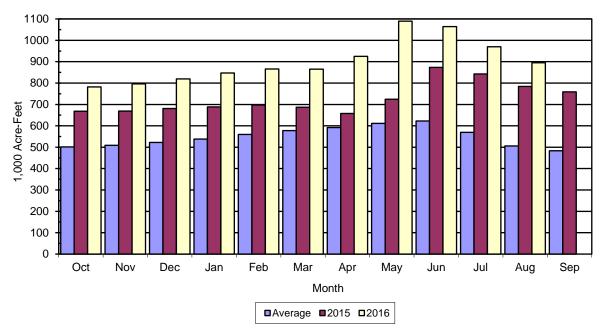


Figure 5 Pathfinder Reservoir Storage

 Table 4
 Pathfinder Reservoir Hydrologic Data for Water Year 2016

Reservoir Allocations	Elevation (FT)	Storage (AF)	Storage Allocation (AF)
Top of Inactive	5,746.00	31,405	31,405
Top of Active Conservation	5,852.49	1,070,000	1,038,595
Crest of Dam (without	5,858.10		
Camber)			

Storage-Elevation Data	Elevation (FT)	Storage (AF)	Date
Beginning of water year	5,837.21	758,882	Oct 1, 2015^3
End of water year	5,843.27	873,420	Sept 30, 2016
Annual Low	5,837.21	758,882	Oct 1, 2015
Historic Low ^{2, 3}	5,690.00	0	Sep 9, 1958
Annual High	5,853.49	1,093,275	Jun 2, 2016
Historic High ¹	5,853.49	1,093,275	Jun 2, 2016

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

³ Represents 0001 hours on October 1.

Inflow-Outflow Data	Inflow	Date	Outflow	Date
Annual Total (AF)	1,311,952	Oct, 2015 – Sep, 2016	1,110,347	Oct, 2015 – Sep, 2016
Daily Peak (CFS)	9,147	May 31, 2016	7,658	Jun 6, 2016
Daily Minimum (CFS)	64	Aug 24, 2016	67	Oct 26, 2015
Peak Flow below Pathfinder			6,029	Jun 7, 2016
Dam(CFS)				
Total Flow below Pathfinder			373,654	Oct, 2015 – Sep, 2016
Dam (AF)				

⁴ At the request of the Wyoming Game and Fish Department a yearly, minimum flow of 75 cfs will be provided through the Pathfinder Reservoir 30 inch Jet-Flow Valve to the river below Pathfinder Dam. Spillway and additional releases were made in WY 2016 that resulted in a peak flow of 6,029 cfs.

Month	Gain	from Kortes	In	flow ⁶	O	utflow	Co	ntent ⁸
	KAF	% of Avg. 5	KAF	% of Avg.	KAF	% of Avg. 5	KAF	% of Avg.
		_		5		_		5
October	3.5	69	36.7	82	8.4	46	781.9	156
November	2.7	69	50.3	111	31.0	84	796.6	157
December	2.0	48	54.5	109	31.2	87	819.2	157
January	8.4	145	60.2	113	29.9	84	847.5	157
February	6.5	97	50.0	91	29.2	89	865.9	155
March	9.5	83	50.2	68	50.3	94	865.1	150
April	22.7	134	118.4	109	50.7	56	925.1	156
May	47.3	202	324.8	245	152.2	141	1089.6	178
June	12.1	56	368.6	214	378.4	248	1064.2	171
July	-7.4	NA ⁷	104.9	79	181.4	102	970.1	170
August	1.4	28	57.2	64	118.9	82	895.3	177
September	4.1	108	36.2	67	48.9	68	873.4	181
Annual	112.9	98	1312.0	130	1110.3	116		

⁵ 30 year average is the period (1986-2015)

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

Canyon tunnel.

⁶ The inflow includes the gain from Kortes 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. Alcova dam, located about 10 miles downstream from Pathfinder Dam was completed in 1938. Reservoir storage capacity is about 184,405 AF at an elevation of 5500 feet which the top 30,603 AF is active capacity available for irrigation of the Kendrick Project. The Alcova 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 5,500 feet. The reservoir is typically operated during the irrigation season, May through September, at a level of 5498 feet and 5488 feet for the remainder of WY 2016. 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 September 30, 2015, and continued through October 28, 2015 when the reservoir reached its normal winter operating range of 5,488 plus or minus one foot. The refill of Alcova Reservoir was initiated on March 31, 2016. The water surface elevation was raised to 5,498 feet on April 26, 2016, and the reservoir was maintained within one foot of elevation 5,498 feet throughout the irrigation season.

Gray Reef Dam and Reservoir is part of the Glendo Unit, Oregon Trail Division, PS-MBP. The dam which was completed in 1961 is a three-zoned rock and earth fill structure located about 2.5 miles below Alcova Dam. Gray Reef 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 Reservoir releases were maintained at 500 cfs from September 15, 2015 through April 29, 2016. At the request of the Wyoming Game and Fish Department a series of flushing flows were initiated on March 7 to March 16, 2016 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 Reservoir were returned to 500 cfs until April 29, 2016. Releases for the remainder of WY 2016 were adjusted to meet irrigation demands below Guernsey Reservoir. The largest daily release of water for WY 2016 occurred on June 5, 2016 at 7,003 cfs.

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

River gains from Alcova Dam to Glendo Reservoir were above average five months of WY 2016 and below average for the other months of WY 2016, and ranged from a high of 304 percent of average in May 2016 to a low of 15 percent of average in December 2015. The 30-year average gain in July is negative, making a comparison to the July 2016 gain meaningless. The actual April through July 2016 gain was 301,112 AF, which was 232 percent of average. The maximum computed daily river gain of 9,880 cfs occurred on May 8, 2016, and the daily computed Glendo

Reservoir inflow peaked on May 8, 2016 at 11,409 cfs. Figure 6 depicts a comparison of average WY 2015 and WY 2016 monthly river gains.

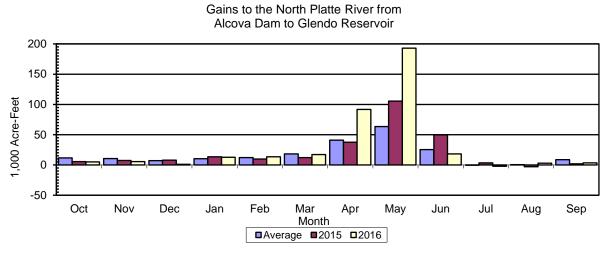


Figure 6 Gains to the North Platte River from Alcova Dam to Glendo Reservoir

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 763,039 AF, including 271,017 AF allocated to flood control. Glendo Powerplant consists of two electrical generating units, with a total installed capacity of 38 MW. With both generating units operating at capacity and the reservoir water surface at an elevation of 4,635.0 feet, approximately 3,400 cfs can be released through Glendo Powerplant. The reinforced concrete spillway has an ungated ogee crest. The spillway capacity at an elevation of 4,669.0 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, 4,635 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 133,646 AF at the beginning of WY 2016, 106 percent of average and 27 percent of the active conservation of 492,022 AF. Water releases from Glendo Reservoir were initiated on April 25, 2016 to move water to the Inland Lakes. The reservoir reached a maximum storage for WY 2016 of 612,601 AF, elevation 4,643.90 feet, on June 21, 2016. At the end of WY 2016 Glendo Reservoir contained 152,642 AF of water, water surface elevation 4,595.10 feet, which was 121 percent of average and 31 percent of top of active conservation. Figure 7 depicts WY 2015 and WY 2016 end of month reservoir storage compared to average. Table 5 depicts a summary of Glendo Reservoir information for WY 2016.

Table 5 Glendo Reservoir Hydrologic Data for Water Year 2016

Reservoir Allocations	Elevation	Storage (AF)	Storage Allocation (AF)
	(FT)		
Top of Inactive	4,570.00	51,573	51,573
Top of Active Conservation	4,635.00	492,022	440,449
Top of Exclusive Flood Control	4,653.00	763,039	271,017
Maximum water	4,669.00	1,092,290	329,251
surface(surcharge)			
Crest of Dam (without Camber)	4,675.00		

Storage-Elevation Data	Elevation	Storage (AF)	Date
	(FT)		
Beginning of water year	4,591.49	133,646	Oct 1, 2015 ¹
End of water year	4,595.10	152,642	Sep 30, 2016
Annual Low	4,591.77	135,044	Oct 1, 2015
Historic Low	4,548.10	15,140	Sep 28, 1966
Annual High	4,643.90	612,601	Jun 4, 2016
Historic High	4,650.94	758,830	May 28, 1973

¹ Represents 0001 hours on October 1.

Inflow-Outflow Data	Inflow	Date	Outflow ²	Date
Annual Total (AF)	1,405,671	Oct, 2015 – Sep, 2016	1,353,505	Oct, 2015 – Sep, 2016
Daily Peak (CFS)	11,409	May 8, 2016	7,998	Aug 16, 2016
Daily Minimum (CFS)	140	Dec 29, 2015	1 4	Sep 30, 2016
Peak Bypass Release (CFS)			6,804	Jun 29, 2016
Total Bypass Release (AF)			375,446 ³	Oct, 2015 – Sep, 2016

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

⁴The low flow out of Glendo Reservoir is due to the work being done on the spillway gates at Guernsey Dam.

Month	Gain from	n Alcova	Infl	ow ⁸	Ou	tflow	Conte	ent ⁹
	KAF	% of	KAF	% of	KAF	% of	KAF	% of
		Avg. 6		Avg. 6		Avg. ⁶		Avg. 6
October	5.1	44	40.1	72	1.7	85 ⁷	171.1	98
November	5.5	52	38.0	78	1.5	100^{7}	206.8	94
December	1.1	15	36.2	84	1.6	94^{7}	241.1	92
January	12.8	125	42.6	94	1.6	94 ⁷	281.8	93
February	13.4	111	41.9	97	1.0	48^{7}	322.1	93
March	17.1	94	63.4	94	1.7	9^{7}	383.5	97
April	91.6	223	111.1	105	18.6	63	472.4	107
May	193.1	304	310.3	199	220.3	166	558.2	118
June	18.3	72	377.7	240	346.0	199	581.4	124
July	-2.0	NA ⁵	179.0	114	333.4	107	419.6	135
August	2.8	467	113.8	86	303.7	107	225.2	149
September	5.9	67	51.6	68	122.2	140	152.6	121
Annual	364.7	175	1405.7	129	1353.5	129		

³ A low flow outlet works was completed in 1993 to allow for a release of 25 cfs.

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Represents a negative number that makes the percentage meaningless. months of October through March.

⁸ Inflow include the gain from Alcova Dam to Glendo Dam.

⁹ End of month

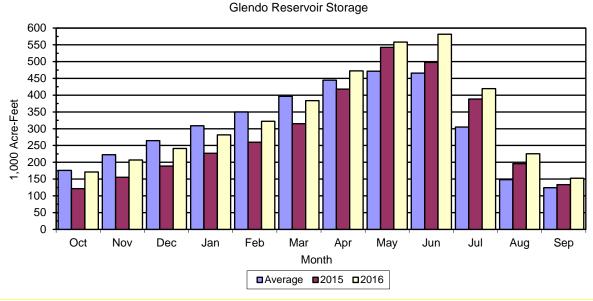


Figure 7 Glendo Reservoir Storage

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

The river gains between Glendo Dam and Guernsey Dam during WY 2016 were at or above average for ten months of the year. June, August and September 2016 gains were below average. The Glendo Dam to Guernsey Reservoir river gains ranged from a high of 362 percent of average in May 2016 to a low of 69 percent in June 2016. The months of July, August and September had negative values which made a percentage value meaningless. On August 15, 2016, the daily computed inflow to Guernsey Reservoir peaked at 8,182 cfs. Figure 8 depicts a comparison of average, WY 2015 and WY 2016 monthly river gains.

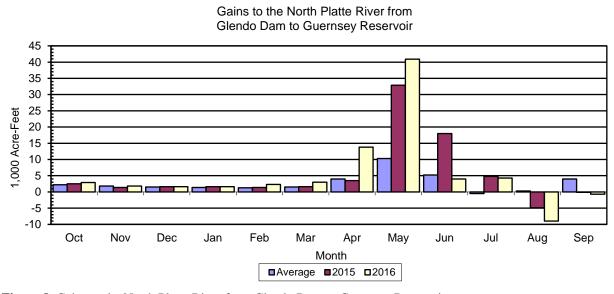


Figure 8 Gains to the North Platte River from Glendo Dam to Guernsey Reservoir

Guernsey Reservoir Storage and Releases

Guernsey Dam located about 25 miles below Glendo Dam 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 4,420 feet is utilized for irrigation releases to supplement the maximum powerplant releases.

The original capacity of Guernsy 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 show about 45,612 AF of available storage.

At the beginning of WY 2016 storage in Guernsey Reservoir was at 5,222 AF. Releases from Guernsey Reservoir were started on April 24, 2016 as water was moved into the Inland Lakes. The annual "silt run" from the reservoir was initiated on August 1, 2016 and continued for 14 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 867 AF occurred on August 1, 2016. Following the "silt run", Guernsey Reservoir was refilled to approximately 28,000 AF. The reservoir reached a low storage of 0 AF on September 30, 2016 and peaked at 38,454 AF on May 8, 2016. See Figure 9 for WY 2015 and WY 2016 storage compared to average.

Guernsey Reservoir Storage

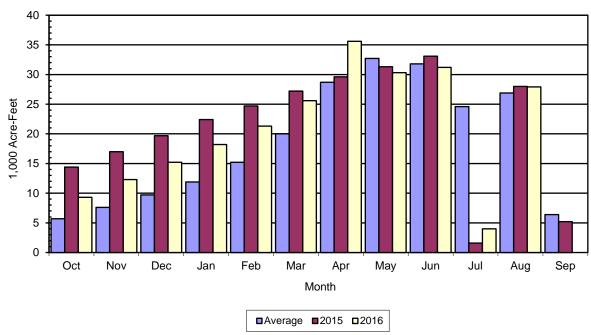


Figure 9 Guernsey Reservoir Storage

Precipitation Summary for Water Year 2016

The 2016 precipitation was at or above average for the Basin. Seven months of WY 2016 precipitation was above the 30 year average for Seminoe, Pathfinder and Glendo Reservoirs, four months for Guernsey Reservoir. The precipitation for WY 2016 ranged from 137 percent of average in the Pathfinder basin to 100 percent of average in the Guernsey basin. Seminoe basin was at 117 percent of average and Glendo basin was at 116 percent of average for WY 2016. Watershed precipitation in each basin is calculated as an average of the precipitation readings of several weather stations.

Precipitation increased in all watersheds in March and April 2016. The Seminoe basin precipitation was 245 percent of average for March 2016 and 204 percent of average for April 2016. The Pathfinder basin precipitation was 317 percent of average for March 216 and 220 percent of average for April 2016. The Glendo basin precipitation was 195 percent of average for March 2016 and 224 percent of average for April 2016. The Guernsey basin precipitation was 221 percent of average for March 2016 and 206 percent of average for April 2106.

North Platte River Basin Precipitation by Watershed Total for the Water Year

See Figure 10 for a comparison of average WY 2015 and WY 2016 total precipitation.

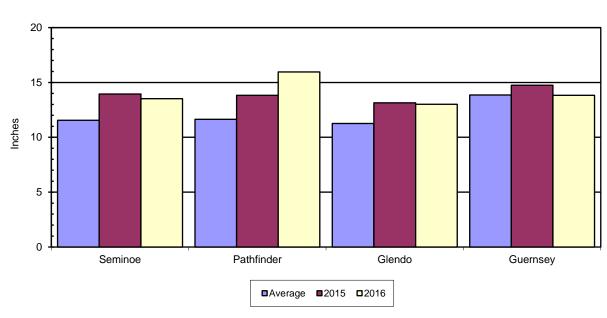


Figure 10 North Platte River Basin Precipitation by Watershed Total for Water Year 2016

Snow Pack Summary for Water Year 2016

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. On February 1, 2016 the snow pack SWE above Seminoe Reservoir started strong with 97 percent of average, dropped 10 percent on March 1, 2016, and made a strong

recovery to 105 percent of average on May 1, 2016. In the Sweetwater River watershed the SWE started with 67 percent of average on February 1, 2016 and climbed to 114 percent of average on May 1, 2016. Snow in the Alcova Dam to Glendo Reservoir watershed began with 107 percent of average on February 1, 2016, dropped to 95 percent of average on March 1, 2016, but ended strong at 165 percent on May 1, 2016.

Table 6 North Platte Snowpack Water Content for 2016

	Fe	eb 1	M	ar 1	A	pr 1	М	ay 1
Watershed	SWE ¹	% of Median ²	SWE ¹	% of Median ²	SWE ¹	% of Median ²	SWE ¹	% of Median ²
Seminoe Reservoir	14.1	97	16.5	87	23.2	99	26.5	105
Pathfinder Reservoir	6.1	67	8.3	74	15.4	104	18.2	114
Glendo Reservoir	6.6	107	8.0	95	13.2	120	14.9	165

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

Allocation for Water Year 2016

Due to the above average carryover entering WY 2016 and timely spring precipitation an allocation was not required.

Ownerships for Water Year 2016

Stored water which is held in accounts for various entities is referred to as their ownership. At the beginning of WY 2016 the North Platte Project ownership, including North Platte Pathfinder and North Platte Guernsey, contained 610,265 AF of water which is 156 percent of average. The Kendrick ownership contained 1,105,229 AF of water which is 129 percent of average. The Glendo ownership contained 152,788 AF of water which is 119 percent of average.

The total amount of water stored at the end of WY 2016 in the mainstem reservoirs for use in WY 2017 was 2,010,821 AF which was 144 percent of average.

At the end of WY 2016 the North Platte Project ownership, including North Platte Pathfinder and North Platte Guernsey, contained 694,346 AF of water which is 178 percent of average. The Glendo ownership contained 164,149 AF of water which is 127 percent of average. The Kendrick ownership contained 1,119,624 AF which is 130 percent of average. The Operational/Reregulation water account contained 22,773 AF. Also stored in the North Platte storage system was 7,929 AF for the city of Cheyenne, zero AF for the Wyoming Water Development Commission, and 2,000 AF for Pacificorp. See Figure 11 for the last two water years ownership carryover compared with the average carryover for the Kendrick, North Platte, and Glendo Projects. Table 8 shows a summary of ownership for WY 2016.

² Median is based on the 1981-2010 period.

Ownerships End of September

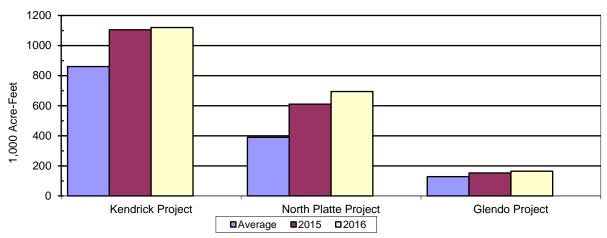


Figure 11 Ownership End of September

North Platte River Forecast 2016

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 Seminoe Reservoir watershed, the Sweetwater River above Pathfinder Reservoir, and the North Platte River from Alcova Dam to Glendo Reservoir are based on SNOTEL and or snow course measurements, precipitation measurements, and calculated inflows. 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 runoff forecasts. Reclamation and NRCS forecasts are then reviewed by WYAO management. All the information available is considered and judgement 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 WY 2016.

Table 7 Summary of Forecasts of April-July Runoff for Water Year 2016

	Fe	b 1	Ma	ır 1	Ap	r 1	Ma	y 1	Actual	% of
Forecast		% of		% of		% of		% of	April-July	Apr-Jul
Points	KAF	Avg.	KAF	Avg.	KAF	Avg.	KAF	Avg.	KAF	Avg. ¹
Seminoe										
Reservoir	600	87	600	86	680	99	850^{2}	123	1029.7	149
Sweetwater										
River	30	57	30	57	60	113	70^{3}	132	69.1	132
Alcova to										
Glendo	120	93	120	97	150	115	250^{4}	192	301.1	232

Average is based on the 1985-2014 period.

² The May 1 forecast includes an actual April inflow of 134,467 AF.

³ The May 1 forecast includes an actual April inflow of 7,674 AF.

⁴ The May 1 forecast includes an actual April inflow of 91,631 AF.

 Table 8
 Summary of North Platte River System Ownership for Water Year 2016

	Months	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTA
	VOLUE				<u> </u>										BBBLA: ALKA
ı	Pathfinder Ownership														
-	Evaporation		-4,548	-1,465	-3,265	-1,808	-588	-2,227	-7,670	-8,154	-15,237	-17,405	-11,184	-8,152	-81,70
,	Accural		29,528	21,422	36,774	32,640	35,430	59,864	149,348	122,486	15,237	0	0	0	502,7
[Delivery		0	0	0	0	0	0	0	0	0	-314,061	0	-38,978	-353,0
F	PP&L payback		0	0	0	0	0	0	0	806	780	14,508	0	0	16,0
E	Evaporation payback										0				0
F	Re-Regulation transfer												0	0	0
(Ownership total		635,245	655,202	688,711	719,543	754,385	812,022	953,700	, ,	1,069,618	752,660	741,476	694,346	
,	Actual Ownership	610,265	635,245	655,202	688,711	719,543	754,385	812,022	953,700	1,068,838	1,069,618	752,660	741,476	694,346	
ı	Kendrick Ownership														
1	Evaporation		-4,551	-1,552	-4,447	-2,310	-728	-2,654	-3,048	-7,522	-13,577	-14,328	-11,820	-7,081	-73,6
	Accural		4,551	1,552	0	2,310	0	2,004	0,040	123,261	13,577	11,443	0	7,001	148,
	Delivery		0	0	0	0	0	0	0	0	0	-60,000	0	-2,145	-62,
	Evaporation payback	İ	J	- J	- J	-	-				0	0	0	2, 1.0	0_,
	Re-Regulation transfer							0	0	0	0	0	0	0	0
	Ownership total		1.100.678	1,099,126	1,094,679	1,092,369	1,091,641	1,088,987	1,085,939	1,201,678	1.201.678	1.138.793	1.126.973	1.117.747	
	Actual Ownership	1.105.229	1,100,678							1,201,678	, - , ,	,,,	1,126,973	, ,	
			,,-	,,	1,00 1,01 0	.,002,000	.,00.,0	1,000,007	.,000,000	1, 1, 1	.,20.,0.0	., .00,.00	1,1=0,010	, ,	
	Glendo Ownership	Т										· ·	, ,	2 202	10.1
I	Evaporation		-1,338	-708	-221	-145	-500	-46	-2,652	-1,680	-3,393	-3,648	-2,632	-2,303	
١	Evaporation Accural		-1,338 0	-708 0	-221 0	-145 0	-500 0	-46 5,091		-1,680 1,680	-3,393 0	-3,648 2,744	-2,632 0	0	28,9
	Evaporation Accural Delivery		-1,338	-708	-221	-145	-500	-46	-2,652	-1,680	-3,393 0	-3,648 2,744 0	-2,632 0 -402	-1,501	28,9 -1,9
 	Evaporation Accural Delivery Evaporation payback		-1,338 0 0	-708 0 0	-221 0 0	-145 0 0	-500 0 0	-46 5,091 0	-2,652 19,394 0	-1,680 1,680 0	-3,393 0 0 3,393	-3,648 2,744 0 228	-2,632 0 -402 0	-1,501 0	28,9 -1,9
 	Evaporation Accural Delivery Evaporation payback Ownership total	152.788	-1,338 0 0 151,450	-708 0 0	-221 0 0	-145 0 0 150,376	-500 0 0 149,876	-46 5,091 0 154,921	-2,652 19,394 0 171,663	-1,680 1,680 0 171,663	-3,393 0 0 3,393 171,663	-3,648 2,744 0 228 170,987	-2,632 0 -402 0 167,953	0 -1,501 0 164,149	28,9 -1,9
	Evaporation Accural Delivery Evaporation payback	152,788	-1,338 0 0	-708 0 0	-221 0 0	-145 0 0	-500 0 0	-46 5,091 0	-2,652 19,394 0	-1,680 1,680 0	-3,393 0 0 3,393	-3,648 2,744 0 228	-2,632 0 -402 0	-1,501 0	28,9 -1,9
	Evaporation Accural Delivery Evaporation payback Ownership total Actual Ownership Guernsey Ownership	152,788	-1,338 0 0 151,450 151,450	-708 0 0 150,742 150,742	-221 0 0 150,521 150,521	-145 0 0 150,376 150,376	-500 0 0 149,876 149,876	-46 5,091 0 154,921 154,921	-2,652 19,394 0 171,663 171,663	-1,680 1,680 0 171,663 171,663	-3,393 0 0 3,393 171,663 171,663	-3,648 2,744 0 228 170,987 170,987	-2,632 0 -402 0 167,953 167,953	0 -1,501 0 164,149 164,149	28,9 -1,9 3,6
	Evaporation Accural Delivery Evaporation payback Ownership total Actual Ownership Guernsey Ownership Evaporation	152,788	-1,338 0 0 151,450 151,450	-708 0 0 150,742 150,742	-221 0 0 150,521 150,521	-145 0 0 150,376 150,376	-500 0 0 149,876 149,876	-46 5,091 0 154,921 154,921	-2,652 19,394 0 171,663 171,663	-1,680 1,680 0 171,663 171,663	-3,393 0 0 3,393 171,663 171,663	-3,648 2,744 0 228 170,987 170,987	-2,632 0 -402 0 167,953 167,953	0 -1,501 0 164,149 164,149	28,9 -1,9 3,6
	Evaporation Accural Delivery Evaporation payback Ownership total Actual Ownership Guernsey Ownership Evaporation Accural	152,788	-1,338 0 0 151,450 151,450	-708 0 0 150,742 150,742	-221 0 0 150,521 150,521 -8 2,437	-145 0 0 150,376 150,376	-500 0 0 149,876 149,876	-46 5,091 0 154,921 154,921 -92 13,640	-2,652 19,394 0 171,663 171,663 -790 808	-1,680 1,680 0 171,663 171,663 -849	-3,393 0 0 3,393 171,663 171,663	-3,648 2,744 0 228 170,987 170,987	-2,632 0 -402 0 167,953 167,953	0 -1,501 0 164,149 164,149	47,5
	Evaporation Accural Delivery Evaporation payback Ownership total Actual Ownership Guernsey Ownership Evaporation Accural Delivery	152,788	-1,338 0 0 151,450 151,450	-708 0 0 150,742 150,742	-221 0 0 150,521 150,521	-145 0 0 150,376 150,376	-500 0 0 149,876 149,876	-46 5,091 0 154,921 154,921	-2,652 19,394 0 171,663 171,663	-1,680 1,680 0 171,663 171,663	-3,393 0 0 3,393 171,663 171,663	-3,648 2,744 0 228 170,987 170,987 -1,111 0 -45,557	-2,632 0 -402 0 167,953 167,953	0 -1,501 0 164,149 164,149	28,9 -1,9 3,6 -4,4 47,5 -45,
	Evaporation Accural Delivery Evaporation payback Ownership total Actual Ownership Guernsey Ownership Evaporation Accural Delivery Evaporation payback	152,788	-1,338 0 0 151,450 151,450	-708 0 0 150,742 150,742	-221 0 0 150,521 150,521 -8 2,437	-145 0 0 150,376 150,376	-500 0 0 149,876 149,876	-46 5,091 0 154,921 154,921 -92 13,640	-2,652 19,394 0 171,663 171,663 -790 808	-1,680 1,680 0 171,663 171,663 -849	-3,393 0 0 3,393 171,663 171,663	-3,648 2,744 0 228 170,987 170,987	-2,632 0 -402 0 167,953 167,953	0 -1,501 0 164,149 164,149 0 0	28,9 -1,9 3,6 -4,4 47,5 -45,5 1,4
	Evaporation Accural Delivery Evaporation payback Ownership total Actual Ownership Guernsey Ownership Evaporation Accural Delivery Evaporation payback Re-Regulation transfer	152,788	-1,338 0 0 151,450 151,450	-708 0 0 150,742 150,742	-221 0 0 150,521 150,521 -8 2,437 0	-145 0 0 150,376 150,376 -37 14,251	-500 0 0 149,876 149,876 -136 15,539	-46 5,091 0 154,921 154,921 -92 13,640	-2,652 19,394 0 171,663 171,663 -790 808 0	-1,680 1,680 0 171,663 171,663 -849 849	-3,393 0 0 3,393 171,663 171,663 -1,391 0 0	-3,648 2,744 0 228 170,987 170,987 -1,111 0 -45,557 61	-2,632 0 -402 0 167,953 167,953	0 -1,501 0 164,149 164,149 0 0 0	28,9 -1,9 3,6 -4,4 47,5 -45,;
	Evaporation Accural Delivery Evaporation payback Ownership total Actual Ownership Guernsey Ownership Evaporation Accural Delivery Evaporation payback Re-Regulation transfer Ownership total		-1,338 0 0 151,450 151,450	-708 0 0 150,742 150,742	-221 0 0 150,521 150,521 -8 2,437 0	-145 0 0 150,376 150,376 -37 14,251 0	-500 0 0 149,876 149,876 -136 15,539 0	-46 5,091 0 154,921 154,921 -92 13,640 0	-2,652 19,394 0 171,663 171,663 -790 808 0	-1,680 1,680 0 171,663 171,663 -849 849 0	-3,393 0 0 3,393 171,663 171,663 -1,391 0 0 1,391	-3,648 2,744 0 228 170,987 170,987 -1,111 0 -45,557 61	-2,632 0 -402 0 167,953 167,953	0 -1,501 0 164,149 164,149 0 0 0	28,9 -1,9 3,62 -4,4 47,5 -45,5 1,43
	Evaporation Accural Delivery Evaporation payback Ownership total Actual Ownership Guernsey Ownership Evaporation Accural Delivery Evaporation payback Re-Regulation transfer	152,788	-1,338 0 0 151,450 151,450	-708 0 0 150,742 150,742	-221 0 0 150,521 150,521 -8 2,437 0	-145 0 0 150,376 150,376 -37 14,251	-500 0 0 149,876 149,876 -136 15,539	-46 5,091 0 154,921 154,921 -92 13,640	-2,652 19,394 0 171,663 171,663 -790 808 0	-1,680 1,680 0 171,663 171,663 -849 849	-3,393 0 0 3,393 171,663 171,663 -1,391 0 0	-3,648 2,744 0 228 170,987 170,987 -1,111 0 -45,557 61	-2,632 0 -402 0 167,953 167,953	0 -1,501 0 164,149 164,149 0 0 0	28,9 -1,9 3,6 -4,4 47,5 -45,;
	Evaporation Accural Delivery Evaporation payback Ownership total Actual Ownership Guernsey Ownership Evaporation Accural Delivery Evaporation payback Re-Regulation transfer Ownership total		-1,338 0 0 151,450 151,450	-708 0 0 150,742 150,742	-221 0 0 150,521 150,521 -8 2,437 0	-145 0 0 150,376 150,376 -37 14,251 0	-500 0 0 149,876 149,876 -136 15,539 0	-46 5,091 0 154,921 154,921 -92 13,640 0	-2,652 19,394 0 171,663 171,663 -790 808 0	-1,680 1,680 0 171,663 171,663 -849 849 0	-3,393 0 0 3,393 171,663 171,663 -1,391 0 0 1,391	-3,648 2,744 0 228 170,987 170,987 -1,111 0 -45,557 61	-2,632 0 -402 0 167,953 167,953	0 -1,501 0 164,149 164,149 0 0 0	28,9 -1,9 3,6 -4,4 47,5 -45,5 1,4
	Evaporation Accural Delivery Evaporation payback Ownership total Actual Ownership Guernsey Ownership Evaporation Accural Delivery Evaporation payback Re-Regulation transfer Ownership total Actual Ownership		-1,338 0 0 151,450 151,450	-708 0 0 150,742 150,742	-221 0 0 150,521 150,521 -8 2,437 0	-145 0 0 150,376 150,376 -37 14,251 0	-500 0 0 149,876 149,876 -136 15,539 0	-46 5,091 0 154,921 154,921 -92 13,640 0	-2,652 19,394 0 171,663 171,663 -790 808 0	-1,680 1,680 0 171,663 171,663 -849 849 0	-3,393 0 0 3,393 171,663 171,663 -1,391 0 0 1,391	-3,648 2,744 0 228 170,987 170,987 -1,111 0 -45,557 61	-2,632 0 -402 0 167,953 167,953	0 -1,501 0 164,149 164,149 0 0 0	28,9 -1,9 3,6: -4,4 47,5 -45,4 0
	Evaporation Accural Delivery Evaporation payback Ownership total Actual Ownership Guernsey Ownership Evaporation Accural Delivery Evaporation payback Re-Regulation transfer Ownership total Actual Ownership		-1,338 0 0 0 151,450 151,450	-708 0 0 150,742 150,742	-221 0 0 150,521 150,521 -8 2,437 0 2,429 2,429	-145 0 0 150,376 150,376 14,251 0 16,643 16,643	-500 0 0 149,876 149,876 -136 15,539 0 32,046 32,046	-46 5,091 0 154,921 154,921 -92 13,640 0 45,594 45,594	-2,652 19,394 0 171,663 171,663 -790 808 0 45,612 45,612	-1,680 1,680 0 171,663 171,663 -849 849 0 45,612 45,612	-3,393 0 0 3,393 171,663 171,663 -1,391 0 0 1,391 45,612 45,612	-3,648 2,744 0 228 170,987 170,987 -1,111 0 -45,557 61 -995	-2,632 0 0 -402 0 167,953 167,953	0 -1,501 0 164,149 164,149 0 0 0 0	28,9 -1,9 3,6 3,6 -4,4 47,5 -45,5 1,4 0
	Evaporation Accural Delivery Evaporation payback Ownership total Actual Ownership Guernsey Ownership Evaporation Accural Delivery Evaporation payback Re-Regulation transfer Ownership total Actual Ownership Inland Lakes Evaporation		-1,338 0 0 151,450 151,450 0 0 0	-708 0 0 150,742 150,742	-221 0 0 150,521 150,521 150,521 2,437 0 2,429 2,429	-145 0 0 150,376 150,376 14,251 0 16,643 16,643	-500 0 0 149,876 149,876 -136 15,539 0 32,046 32,046	-46 5,091 0 154,921 154,921 -92 13,640 0 45,594 45,594	-2,652 19,394 0 171,663 171,663 -790 808 0 45,612 45,612	-1,680 1,680 0 171,663 171,663 -849 849 0 45,612 45,612	-3,393 0 0 3,393 171,663 171,663 -1,391 0 0 1,391 45,612 45,612	-3,648 2,744 0 228 170,987 170,987 -1,111 0 -45,557 61 -995 0	-2,632 0 -402 0 167,953 167,953 0 0 0 0	0 -1,501 0 164,149 164,149 0 0 0 0	28,9 -1,9 3,62 -4,4 47,5 -45,5 1,44
	Evaporation Accural Delivery Evaporation payback Ownership total Actual Ownership Guernsey Ownership Evaporation Accural Delivery Evaporation payback Re-Regulation transfer Ownership total Actual Ownership Inland Lakes Evaporation Accural		-1,338 0 0 151,450 151,450 0 0 0 0	-708 0 0 150,742 150,742 0 0 0 0	-221 0 0 150,521 150,521 -8 2,437 0 2,429 2,429	-145 0 0 150,376 150,376 -37 14,251 0 16,643 16,643	-500 0 0 149,876 149,876 -136 15,539 0 32,046 32,046	-46 5,091 0 154,921 154,921 -92 13,640 0 45,594 45,594	-2,652 19,394 0 171,663 171,663 -790 808 0 45,612 45,612 -274 31,633	-1,680 1,680 0 171,663 171,663 -849 849 0 45,612 45,612	-3,393 0 0 3,393 171,663 171,663 -1,391 0 0 1,391 45,612 45,612	-3,648 2,744 0 228 170,987 170,987 -1,111 0 -45,557 61 -995 0	-2,632 0 -402 0 167,953 167,953	0 -1,501 0 164,149 164,149	28,9 -1,9 3,6; -4,4 47,5 -45,5 1,4; 0

Table 8 (Continued) Summary of North Platte River System Ownership for Water Year 2016

Summary of North Platte River Systems Ownerships for Water Year 2016 (Acre-Feet)

			ry of Nort											
Months	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
City of Cheyenne														
Evaporation		-28	-7	-27	-12	0	-18	-25	-58	-57	-70	-72	-51	-425
Stored		932	843	714	772	791	569	321	490	1,321	762	1,311	1,107	9,933
Used		37	-82	-140	-92	-78	-129	-826	-4,005	-1,500	-57	-82	-277	-7,23°
Ownership total		6,593	7,347	7,894	8,562	9,275	9,697	9,167	5,594	5,358	5,993	7,150	7,929	
Actual Ownership	5,652	6,593	7,347	7,894	8,562	9,275	9,697	9,167	5,594	5,358	5,993	7,150	7,929	
Pacific Corp (PP&L)														
Evaporation		-13	-7	0	0	-2	0	-13	-14	-29	-31	-29	-23	-161
Accrual		0	0	0	0	0	0	0	60	29	31	29	23	172
Delivery		0	0	0	0	0	0	0	0	0	0	0	0	0
Ownership total		1,976	1,969	1,969	1,969	1,967	1,967	1,954	2,000	2,000	2,000	2,000	2,000	
Actual Ownership	1,989	1,976	1,969	1,969	1,969	1,967	1,967	1,954	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
Accural		0	0	0	0	0	0	0	0	0	0	0	0	0
Delivery		0	0	0	0	0	0	0	0	0	0	0	0	0
Ownership total		0	0	0	0	0	0	0	0	0	0	0	0	
Actual Ownership	0	0	0	0	0	0	0	0	0	0	0	0	0	
Operational Ownership														
Evaporation		-31	-13	0	0	-6	0	-81	-112	-214	-235	-209	-167	-1,06
Accural		0	0	0	0	0	1,079	8,915	112	0	182	0	0	10,28
Delivery		0	0	0	0	0	0	0	0	0	0	0	0	0
Evaporation payback										214	0	0	0	214
Ownership total		5,106	5,093	5,093	5,093	5,087	6,166	15,000	15,000	15,000	14,947	14,738	14,571	
Actual Ownership	5,137	5,106	5,093	5,093	5,093	5,087	6,166	15,000	15,000	15,000	14,947	14,738	14,571	
Re-Regulation Water														
Evaporation		-75	-39	-58	-24	-13	0	-109	-937	-3,907	-2,595	-3,301	-642	-11,70
Accural		0	0	0	0	0	0	40,305	211,800	19,199	-287,743	-261,773	-88,669	-366,8
Delivery		0	0	0	0	0	0	-6,627	-9,695	56,967	389,839	0	1,871	432,3
Evaporation Payback										-33,812	0	0	0	-33,81
Re-Regulation Transfer							0	0	0		0	0	0	0
Ownership total		11,922	11,883	11,825	11,801	11,788	11,788	45,357	246,525	261,215	360,716	95,642	8,202	
Actual Ownership	11,997	11,922	11,883	11,825	11,801	11,788	11,788	45,357	222,768	261,215	360,716	95,642	8,202	

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, 2016, until July 26, 2016, when the last 25 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, 45,8 AF was transferred to the Inland Lakes.

D/ Wyoming Water Development Commission (WWDC) did not contract with the Bureau of Reclamation for storage space.

 Table 9
 Actual Reservoir Operations for Water Year 2016

NORTH PLATTE RIVER OPERATING PLAN Year Beginning Oct 2015

HYDROLOGY OPERATIONS

 	-	 	-	_	-	 -	-	-	_	_	_

Seminoe Reservoir Op				Initial	Content	809.0	Kaf	Operat	ing Limi			Kaf, 635	
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Min Jun	31.7 1 Jul	Kaf, 623 Aug	9.02 Ft. Sep
Total Inflow	kaf	23.1	22.9	24.6	25.9	33.1	50.2	134.5	407.5	407.0	80.7	20.4	14.6
Total Inflow	cfs	376.	385.	400.	421.	575.	816.	2260.	6627.	6840.	1312.	332.	245.
Turbine Release	kaf	33.2	47.6	50.7	51.5	43.6	40.6	95.7	171.2	174.2	112.3	55.8	32.1
Jetflow Release	kaf	0.0	0.3	0.2	0.3	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	182.0	0.0	0.0	0.0
Total Release	kaf	33.2	47.6	52.4	51.8	43.6	40.6	95.7	277.9	356.2	112.3	55.8	32.1
Total Release	cfs	540.	800.	852.	842.	758.	660.	1608.	4519.	5986.	1826.	907.	539.
Evaporation	kaf	3.4	3.9	.6	1.7	1.8	0.6	1.8	6.0	10.9	11.4	9.2	5.2
End-month content	kaf	795.6*	767.0*	738.6*	710.9*	698.6*	707.6*	744.5*	868.1*	908.1*	965.1*	820.5*	797.8*
End-month elevation	ft	6345.0	6343.3	6341.5	6339.7	6338.9	6339.5	6341.9	6349.2	6351.4	6349.0	6346.5	6345.1
Kortes Reservoir Ope				Initial	Content	4.7	Kaf	Operat	ing Limi			Kaf, 614	
					-		30		36	Min		Kaf, 609	
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Total Inflow	kaf	33.2	47.6	52.4	51.8	43.6	40.6	95.7	277.9	356.2	112.3	55.8	32.1
Total Inflow	cfs	539.	800.	852.	843.	759.	660.	1609.	4520.	5985.	1827.	908.	540.
Turbine Release	kaf	33.1	47.0	50.7	50.4	5.5	13.9	95.7	150.9	168.6	112.3	55.8	31.0
Spillway Release	kaf	0.0	0.6	0.0	1.5	38.0	16.8	0.0	126.5	188.0	0.0	0.0	1.1
Total Release	kaf	33.1	47.6	52.4	51.8	43.5	40.7	95.7	277.4	356.5	112.3	55.8	32.1
Total Release	cfs	539.	800.	852.	843.	756.	662.	1609.	4512.	5992.	1826.	907.	539.
Pathfinder Reservoir	Oper	ations		Initial	Content	758.9	Kaf	Operati	ing Limi	ts: Max	1070.0	Kaf, 585	2.49 Ft.
	_				001100110	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		oporus.		Min		Kaf, 574	
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Sweetwater Inflow	kaf	2.2	2.6	2.8	2.9	3.2	4.4	7.7	35.1	21.6	4.7	2.1	1.3
Kortes-Path Gain	kaf	3.5	2.7	2.0	8.4	6.5	9.5	22.7	47.3	12.1	-7.4	1.4	4.1
Total Inflow	kaf	36.7	50.3	54.5	60.2	50.0	50.2	118.4	324.8	368.6	104.9	57.2	36.2
Total Inflow	cfs	597.	845.	886.	979.	869.	816.	1990.	5282.	6194.	1706.	930.	608.
10041 111110#	CLD	337.	015.		3,3.	005.	010.	1330.	3202.	0151.	1,00.	,,,,,	
Turbine Release	kaf	3.2	4.3	25.6	25.2	23.4	43.1	46.1	113.1	130.1	146.7	112.6	44.3
Jetflow Release	kaf	5.2	26.7	4.6	4.7	4.4	4.7	4.6	39.1	89.9	34.7	6.3	4.6
Spillway Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	158.4	0.0	0.0	0.0
Total Release	kaf	8.4	31.0	30.2	29.9	29.2	50.3	50.7	152.2	378.4	181.4	118.9	48.9
Total Release	cfs	137.	521.	507.	486.	508.	818.	852.	2475.	6359.	2950.	1934.	822.
Evaporation	kaf	5.3	4.6	0.7	2.1	2.4	0.7	7.7	8.2	15.5	17.6	13.2	9.2
End-month content	kaf	781.9	796.6	819.2	847.5	865.9	865.1	925.1	1089.6	1064.2	970.1	895.3	873.4
End-month elevation	ft	5838.5	5839.3	5840.5	5842.0	5842.9	5842.9	5845.8	5853.3	5852.2	5848.0	5844.4	5843.3
Alcova Reservoir Ope				Initial	Content	180.2	Kaf	Operat	ing Limi	ts: Max		Kaf, 550	
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Min Jun	Jul	Kaf, 548' Aug	Sep
m-1-1 m-63	1												
Total Inflow	kaf	8.6	31.0	31.2	29.9	29.2	50.3	52.9	152.2	378.4	181.4	118.9	48.9 822.
Total Inflow	cfs	140.	521.	507.	486.	508.	818.	889.	2475.	6359.	2950.	1934.	
Turbine Release	kaf	27.4	29.0	29.7	25.2	28.9	48.7	29.7	135.7	205.9	142.3	101.2	38.3
Spillway Release	kaf	3.5	1.2	0.0	4.7	0.	0.0	0.0	11.5	144.2	0.0	0.0	0.0
Casper Canal Release		0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	13.0	18.6	16.2	9.6
Total Release	kaf	30.9	30.2	30.7	30.3	28.9	48.7	29.7	149.2	363.1	160.9	101.2	38.3
Total Release	cfs	503.	508.	449.	493.	502.	792.	499.	2426.	6102.	2617.	1646.	644.
Evaporation	kaf	0.7	0.6	0.1	0.3	0.3	0.1	0.9	0.9	1.6	1.9	1.6	1.1
End-month content	kaf	156.7*	156.9*	157.4*	156.7*	156.7*	157.8*	180.0*	180.1*	180.8*	180.8*	180.7*	180.5*
End-month elevation	ft	5488.3	5488.4	5488.6	5488.3	5488.3	5488.8	5498.2	5498.2	5498.5	5498.5	5498.5	5498.4

Table 9 (Continued) Actual Reservoir Operations for Water Year 2016

NORTH PLATTE RIVER OPERATING PLAN Year Beginning Oct 2015

Gray Reef Reservoir	Opera	tions		Initial	Content	1.4	Kaf	Operat	ing Limi	ts: Max Min		Kaf, 533 Kaf, 530	
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Total Inflow	kaf	30.9	30.2	30.7	30.3	28.9	48.7	29.7	149.2	363.1	160.9	101.2	38.3
Total Inflow	cfs	503.	508.	499.	493.	502.	792.	499.	2426.	6102.	2617.	1646.	644.
Total Release	kaf	30.9	29.8	30.8	30.7	28.7	48.5	30.0	148.6	363.0	160.6	101.1	38.2
Total Release	cfs	503.	501.	501.	499.	499.	789.	504.	2417.	6100.	2612.	1644.	642.
Glendo Reservoir Ope	ratio	ns		Initial	Content	133.6	Kaf	Opera	ting Lim	its: Max	789.4	Kaf, 465	4.4 5Ft.
										Min	63.2	Kaf, 457	3.94 Ft.
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Alcova-Glendo Gain	kaf	5.1	5.5	1.1	12.8	13.4	17.1	91.6	193.1	18.3	-2.0	2.8	5.9
Infl from Gray Reef	kaf	35.0	32.5	35.1	29.8	28.5	46.3	19.5	117.2	359.4	181.0	111.0	45.7
Total Inflow	kaf	40.1	38.0	36.2	42.6	41.9	63.4	111.1	310.3	377.7	179.0	113.8	51.6
Total Inflow	cfs	652.	639.	589.	693.	728.	1031.	1867.	5046.	6347.	2911.	1851.	867.
Turbine Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	150.6	223.8	214.5	270.9	120.0
Low Flow Release	kaf	1.7	1.5	1.6	1.6	1.0	1.7	18.6	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	68.2	120.7	117.4	31.3	0.7
Total Release	kaf	1.7	1.5	1.6	1.6	1.0	1.7	18.6	220.3	346.0	333.4	303.7	122.2
Total Release	cfs	28.	25.	26.	26.	17.	28.	313.	3583.	5814.	5422.	4939.	2054.
Evaporation	kaf	1.0	0.7	0.3	0.3	0.6	0.4	3.6	4.2	8.4	7.5	4.5	1.9
End-month content	kaf	171.1*	206.8*	241.1*	281.8#	322.1#	383.5*	472.4*	558.2*	581.4*	419.6*		152.6*
End-month elevation	ft	4598.3	4603.8	4608.6	4613.8	4618.5	4625.0	4633.3	4640.1	4641.8	4628.6	4606.4	4595.1
Grammana Damanada G	·			T-1-1-1	Content	5.2 K	- E	0		ts: Max	45.6	W-F 441	0 00 55
Guernsey Reservoir C	perat	ions		Initial	Content	5.2 K	aI	Operat	ing rimi	cs: Max Min		Kaf, 441 Kaf, 437	
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Glendo-Guerns Gain	kaf	2.9	1.8	1.6	1.6	2.3	3.0	13.8	40.9	4.0	4.3	-9.0	-0.7
Inflow from Glendo	kaf	1.7	1.5	1.6	1.6	1.1	1.7	18.6	220.3	346.0	333.4	303.8	122.2
Total Inflow	kaf	4.6	3.3	3.2	3.2	3.4	4.7	32.4	261.2	350.0	337.7	294.8	121.5
Total Inflow	cfs	75.	55.	52.	52.	59.	76.	544.	4248.	5882.	5492.	4794.	2042.
Turbine Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	10.3	60.2	58.6	55.9	31.8	51.5
Seepage	kaf	0.3	0.2	0.2	0.2	0.2	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	11.5	204.3	286.3	304.7	236.1	97.0
Total Release	kaf	0.3	0.2	0.2	0.2	0.2	0.3	21.8	265.7	347.9	363.7	270.4	148.8
Total Release	cfs	5.	3.	3.	3.	3.	5.	366.	4321.	5846.	5915.	4397.	2502.
Evaporation	kaf	0.2	0.1	0.1	0.1	0.1	0.1	0.7	0.8	1.2	1.1	0.5	0.6
Evaporation End-month content	kaf	9.3*	12.3*	15.2*	18.2*	21.3*	25.6*	35.6*	30.3*	31.2*	4.0*		0.0*
End-month content End-month elevation	ft	4399.7	4402.3	4404.5	4406.5	4408.3	4410.7	4415.6	4413.1	4413.5	4392.8	4411.9	4370.0
mid-month erevacion	ΤL	2333.1	1704.3	U3	- 	- TUU . 3	/	TJ-0		44T2.2	1334.0		13/0.0

Flood Benefits for Water Year 2016

Table 10 Flood Damage Prevented by Dams for WY 2016 on the North Platte River Basin System

Dams	Water Year 2016	Prior to 2016 ²	Accumulated Total ¹
Seminoe	\$802,100	\$84,550,400	\$85,352,500
Pathfinder	\$426,900	\$28,480,700	\$28,907,600
Alcova	\$437,600	\$2,279,100	\$2,716,700
Glendo	\$11,402,100	\$195,528,600	\$206,930,700
Total	\$13,068,700	\$310,838,800	\$323,907,500

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

Generation for Water Year 2016

Power generation was above average at the Guernsey Powerplant and below average for all other powerplants in the North Platte River Basin in WY 2016. See Table 11 for a breakdown of generation by powerplant.

Table 11 Power Generation Water Year 2016

Powerplant	Gross generation ¹ (GWh)	Percent of Average ²
Seminoe	145.7	116
Kortes	143.8	109
Fremont Canyon	231.3	109
Alcova	109.3	102
Glendo	100.2	126
Guernsey	18.4	104
Total Basin	748.7	111

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

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

		Capacity	Total ²	Normal	Output	
	Number	Each	Installed	Operating	At rated	30 year
	of	Unit	Capacity	Head	Head	Average ¹
Powerplant	Units	(kw)	(kw)	(feet)	(cfs)	(GWh)
Seminoe	3	$15,000^{3}$	51,750 ³	97-227	4,050	125.5
Kortes	3	12,000	36,000	192-204	2,910	132.4
Fremont Canyon	2	33,400	66,800	247-363	3,080	211.4
Alcova	2	19,500	41,400	153-165	4,100	107.0
Glendo	2	19,000	38,000	73-156	3,400	79.6
Guernsey	2	3,200	6,400	89-91	1,340	17.7
Total	14		237,200			673.6

¹⁹⁸⁶⁻²⁰¹⁵

² The period of assessment is 1970 through 2016 except for Glendo Dam, which is 1964 through 2016.

² 30 year average (1986-2015)

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

³ A Mechanical restriction allows a 42,000 kw generation, 12,000 kws per unit.

PROPOSED OPERATIONS FOR WATER YEAR 2017

Three operation studies were developed for the System to establish an AOP for WY 2017. 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 reasonable expected inflow estimates. The reasonable expected inflow is based on long term averages and approximates a 50 percent chance of occurrence. The three studies for WY 2017 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 through 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 2,010,821 AF at the beginning of the WY 2017. This amount was 144 percent of the 30 year average (1986-2016) and 71 percent of active conservation capacity.

Seminoe Reservoir

Most Probable Condition 2017

October through March: Seminoe Reservoir has a storage of 797,761 AF at the beginning of WY 2017 which is 135 percent of the 30-year average and 78 percent of active conservation capacity. Planned turbine releases from Seminoe Reservoir are approximately 530 cfs for October 2016 through February 2017 with an increase to 1,000 cfs in March 2017. Reservoir storage would decrease to about 750,200 AF by March 31, 2017. The releases are based on an estimated Seminoe inflow for the October through March period of 181,000 AF. The planned Seminoe and Kortes release of 530 cfs for October through February 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 1,800 cfs for April 2017, approximately 2,500 cfs for May 2017, and 3,400 cfs for June 2017 then decreasing to 1,900 cfs in July 2017 then to 1,000 cfs in August 2017, and 600 cfs in September 2017. There is an expected bypass of approximately 380 cfs through the jet flow valve during June 2017. With most probable inflow conditions, the Seminoe Reservoir storage will reach a maximum of 935,300 AF by the end of June 2017. Projected carryover storage of about 846,300 AF at the end of WY 2017 would be 143 percent of average and 83 percent of active conservation capacity.

Reasonable Minimum Condition 2017

October through March: Planned water release for this period under reasonable minimum inflow condition will be approximately 530 cfs through March 2017. 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 149,600 AF for the period, which is 31,400 AF less than the most probable condition. Under these conditions the March 31, 2017 reservoir content is expected to be approximately 748,000 AF.

April through September: Seminoe water releases will be at 800 cfs through April 2017, increasing to 1,400 cfs in May 2017, then increasing to 1,600 cfs in June 2017, and remains at 1,600 cfs through July 2017. Releases will decrease to 1,400 cfs in August 2017, then to 800 cfs in September 2017 in order to meet irrigation requirements and provide power production. Under a minimum condition the June 2017 content will be approximately 802,900 AF, and WY 2017 will end with a content of 616,800 AF which is 104 percent of average and 61 percent of active conservation capacity.

Reasonable Maximum Condition 2017

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 Seminoe Reservoir for spring runoff. Although inflows to Seminoe 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 maximum inflows for the water year. October 2016 through March 2017 inflows under this condition would be 220,700 AF, which is 39,700 AF more than the most probable runoff condition. The reservoir content would increase from 758,900 AF at the end of March 2017 to 975,100 AF by the end of June 2017 under these conditions.

April through September: Seminoe Reservoir release for March 2017 will be approximately 1,500 cfs, then releases will increase to about 4,000 cfs in April 2017, 4,700 cfs in May 2017, and increase to 6,150 cfs in June 2017. The release will then decrease to approximately 3,800 cfs in July 2017, approximately 2,300 cfs in August 2017, and approximately 800 cfs in September 2017. Inflows for the April through July 2017 period will be approximately 1,353,100 AF, which is 588,000 AF more than the most probable runoff condition. Seminoe Reservoir will reach its maximum end of month content for the year in June 2017 with approximately 975,100 AF in storage. This plan of operation would result in an end of year carryover storage of 849,800 AF, which would be 143 percent of average and 84 percent of active conservation capacity. Figure 12 depicts a comparison of Minimum, Most Probable, and Maximum Seminoe Inflows. Figure 13 depicts a comparison of Minimum, Most Probable, and Maximum Seminoe Storage.

Seminoe Reservoir Inflow

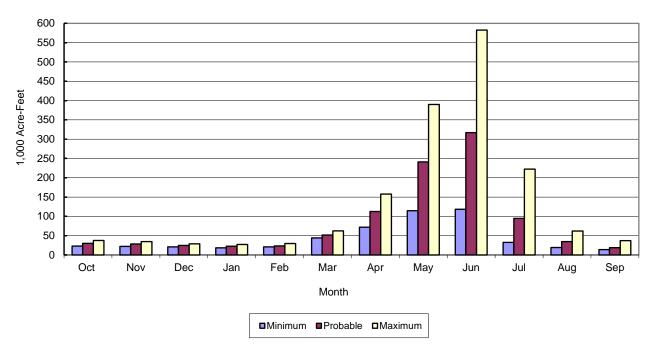


Figure 12 Seminoe Reservoir Inflow (Predicted for Water Year 2017)

Seminoe Reservoir Storage

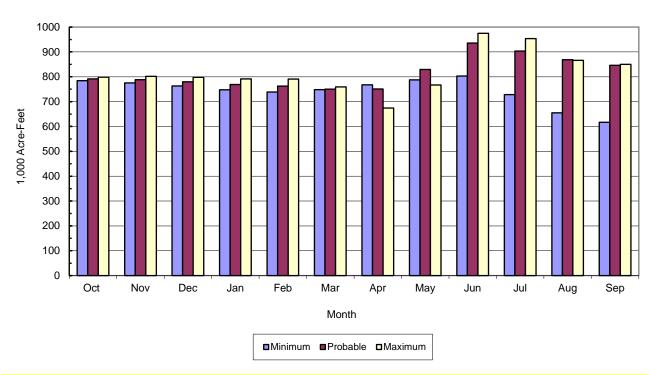


Figure 13 Seminoe Reservoir Storage (Predicted for Water Year 2017)

Pathfinder Reservoir

Most Probable Condition 2017

October through March: Pathfinder Reservoir had a storage of 873,420 AF at the beginning of WY 2017, which is 180 percent of the 30 year average and 82 percent of active conservation capacity. Under this condition, gains to the river between Kortes Dam and Pathfinder Dam, including the Sweetwater River, are expected to be 31,600 AF for the October 2016 through March 2017 period under the most probable inflow conditions. Fremont Canyon Powerplant releases will be reduced during October 2016 to allow Alcova Reservoir water surface level to be lowered to 5,488.0 feet plus or minus 1 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 932,100 AF at the end of March 2017.

April through September: Pathfinder Reservoir storage will reach a maximum content of about 1,070,000 AF by the end of June 2017 and be drawn down to a storage content of about 844,500 AF by the end of WY 2017, which would be 175 percent of average. River gains between Kortes Dam and Pathfinder Dam, including the Sweetwater River, are estimated at about 75,400 AF for the April through July 2017 period under most probable inflow conditions. In April 2017 Fremont Canyon Powerplant releases will be coordinated with Alcova releases to refill Alcova Reservoir to its normal summer operating range of 5,498 feet plus or minus 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. Pathfinder Reservoir water releases will increase in March 2017 to approximately 800 cfs and then increase to approximately 1,200 cfs for April 2017, 1,800 cfs for May 2017, 3,050 cfs in June 2017, 3,300 cfs in July 2017, and then decreasing to approximately 2,300 cfs in August 2017. Releases will be reduced in September 2017 to approximately 1,400 cfs.

Reasonable Minimum Condition 2017

October through March: Under this condition, river gains between Kortes Dam and Pathfinder Dam, including the Sweetwater River, are expected to be 11,400 AF for the October 2016 through March 2017 period under the minimum inflow conditions. Pathfinder Reservoir storage will decline to about 896,900 AF by the end of February 2017. 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 Dam, including the Sweetwater River, are estimated at about 23,900 AF for the April through July 2017 period under reasonable minimum inflow conditions. In April 2017 releases will be coordinated with Alcova releases to refill Alcova Reservoir to its normal summer operating range of 5,498 feet plus or minus 1 foot by the end of April 2017.

April through September: Fremont Canyon power releases will be scheduled to meet downstream irrigation deliveries and maintain a storage content of approximately 179,400 AF in Alcova Reservoir. The highest Pathfinder Reservoir summer releases will be approximately 2,800 cfs during July 2017, and then reduced as irrigation demands drop off to end WY 2017 at approximately 990 cfs during September 2017. If reasonable minimum runoff develops, the reservoir content at the end of the water year will be about 528,200 AF, which would be 109 percent of average and 49 percent of active conservation capacity.

Reasonable Maximum Condition 2017

October through March: Under this condition river gains between Kortes Dam and Pathfinder Dam are expected to be 49,300 AF for the period. Pathfinder Reservoir content increases through this period from 901,900 AF at the end of October 2016 to 968,300 AF by the end of March 2017.

April through September: In April 2017 water releases from Fremont Canyon Powerplant will be increased as Alcova Reservoir is refilled to water surface elevation 5498 feet plus or minus 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 1,070,000 AF at the end of June 2017. Releases will increase to approximately 1,000 cfs in March 2017, 4,300 cfs in April 2017, approximately 4,100 cfs in May 2017 and topping out at 6,750 cfs in June 2017. The releases will decrease to approximately 5,400 cfs in July 2017, 4,500 cfs in August 2017 and 1,200 cfs in September 2017.

The Pathfinder Reservoir end of year storage content is projected to be about 819,700 AF, which would be 169 percent of average, and 77 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.

Gains to the North Platte River from Kortes Dam to Pathfinder Reservoir including Sweetwater River

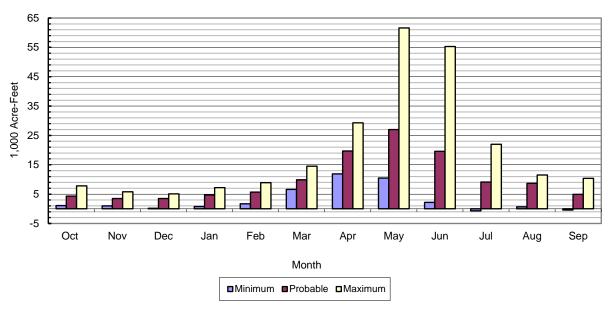


Figure 14 Gains to the North Platte River from Kortes Dam to Pathfinder Reservoir (Predicted for Water Year 2017)

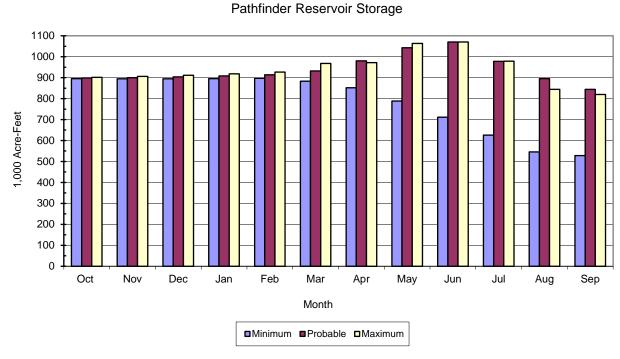


Figure 15 Pathfinder Reservoir Storage (Predicted for Water Year 2017)

Alcova Reservoir

Most Probable Condition 2017

October through March: During October 2016 Alcova Reservoir will be drawn down to the normal winter operating range of 5,488.0 feet plus or minus 1 foot and will be maintained there through March 2017. The October through February releases for WY 2017 will be maintained at approximately 500 cfs. The releases will be used 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 2017 for a flushing flow below Gray Reef Reservoir.

April through September: During April 2017 the reservoir will be refilled to water surface elevation 5,498 feet (179,400 AF). This level will be maintained within plus or minus 1 foot to provide the necessary water surface elevation to make irrigation deliveries to Casper Canal and for recreational purposes. About 67,000 AF of water are scheduled to be delivered during the May through September 2017 period to meet Kendrick Project irrigation requirements. In addition, April 2017 releases to the river are scheduled to be approximately 47,600 AF and May through September 2017 releases to the river from Alcova Reservoir will total approximately 710,800 AF which will be re-regulated in Gray Reef Reservoir.

Reasonable Minimum Condition 2017

October through September: Operation of Alcova Reservoir would be the same as under the most probable condition, with about 67,000 AF of water scheduled to be delivered during the May through September 2017 period to meet Kendrick Project irrigation requirements. April 2017 releases are scheduled to be approximately 59,500 AF and May through September 2017 releases to the North Platte River from Alcova Reservoir will total approximately 700,500 AF. Water released from Alcova Reservoir will be re-regulated in Gray Reef Reservoir.

Reasonable Maximum Condition 2017

October through September: Operation of Alcova Reservoir would be the same as under the most probable condition, with about 67,000 AF of water are scheduled to be delivered during the May through September 2017 period to meet Kendrick Project irrigation requirements. March 2017 releases will be approximately 61,500 AF, and April 2017 releases will be approximately 232,100 AF. May through September 2017 releases to the North Platte River from Alcova Reservoir will total approximately 1,327,500 AF. Figure 16 depicts a comparison of Minimum, Most Probable, and Maximum Alcova Storage.

Alcova Reservoir Storage

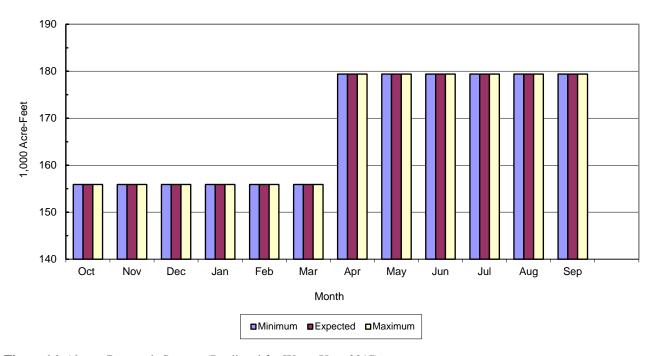


Figure 16 Alcova Reservoir Storage (Predicted for Water Year 2017)

Gray Reef Reservoir

Most Probable Condition 2017

October through March: Releases for October 2016 through February 2017 from Gray Reef Dam will be maintained at approximately 500 cfs. A flushing flow is planned below Gray Reef Dam during March 2017.

April through September: Releases from Gray Reef Reservoir will increase to 800 cfs in March 2017, 800 cfs in April 2017, approximately 1,600 cfs in May 2017, 2,800 cfs in June 2017 and increasing to 3,000 cfs in July 2017. In August 2017 the release will decrease to approximately 2,000 cfs and 1,200 cfs in September 2017.

Reasonable Minimum Condition 2017

October through March: Operation of Gray Reef Reservoir winter releases will be the same as under the most probable condition through March 2017.

April through September: Releases from Gray Reef Reservoir will be approximately 1,000 cfs in April 2017, 2,300 cfs in May 2017, and 2,500 cfs June and July 2017. The releases will be decreased to approximately 2,300 in August 2017 and 800 cfs in September 2017 as irrigation

water is moved downstream. These predicted flows may be redistributed as the irrigators adjust their use of water from storage.

Reasonable Maximum Condition 2017

October through March: Operation of Gray Reef Reservoir winter releases will be the same as under the most probable condition through February 2017 and increasing to 1,000 cfs in March 2017.

April through September: The release from Gray Reef Reservoir will increase to approximately 3,900 cfs in April and May 2017. In June 2017 the release increases to approximately 6,500 cfs. The July 2017 releases will decrease to approximately 5,100 cfs and August 2017 releases will decrease to approximately 4,200 cfs. The September 2017 releases will decrease to approximately 1,050 cfs.

Glendo and Guernsey Reservoirs

Most Probable Condition 2017

October through March: Glendo Reservoir had a storage of 152,642 AF at the beginning of WY 2017, which is 121 percent of average and 31 percent of active conservation capacity of 492,022 AF. Glendo Reservoir storage will increase to approximately 416,500 AF by the end of March 2017, which will be 107 percent of average and 85 percent of active conservation 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 an elevation of 4,635 feet.

Guernsey Reservoir had storage of zero AF at the beginning of WY 2017. No water will be stored in Guernsey during the winter months due to work being performed on the North Spillway Gate.

April through September: During April 2017 releases from Glendo Reservoir will be scheduled to refill Guernsey Reservoir. Maximum Glendo Reservoir storage will be about 492,000 AF by the end of June 2017. Releases from Glendo Reservoir during the May through September 2017 period will be based upon meeting irrigation demand.

Guernsey Reservoir content will be maintained near 28,000 AF during April through August 2017. A silt run in July 2017 will require close coordination of Glendo and Guernsey release schedules as Guernsey Reservoir is drawn down to about 1,000 AF in July 2017 during the silt run and will be refilled to approximately 28,000 AF following the silt run. Releases for delivery of irrigation water will draw down Glendo Reservoir to about 123,900 AF by the end of September 2017.

Reasonable Minimum Condition 2017

October through March: Guernsey Reservoir had a storage of zero AF at the beginning of WY 2017. Under the reasonable minimum inflow conditions, no natural inflow will be stored during

the winter due to work being performed on the North Spillway Gate. Glendo Reservoir content will increase from the carryover storage of 152,642 AF to an end of March content of 392,900 AF.

April through September: During April 2017 releases from Glendo Reservoir will be scheduled to refill Guernsey Reservoir. Glendo Reservoir storage will increase to about 429,900 AF by the end of May 2017 and reach its' highest level of 468,900 AF at the end of June 2017.

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 the North Platte Project. The total combined North Platte System reservoir storage would be approximately 548,400 AF lower than most probable conditions by the end of WY 2017 under reasonable minimum water supply conditions.

Guernsey Reservoir content will be maintained near 28,000 AF during April through August 2017. A silt run in July 2017 will require close coordination of Glendo and Guernsey release schedules. September 2017 releases will be made to meet irrigation requirements leaving 121,300 AF of water in Glendo Reservoir at the end of September 2017. Guernsey Reservoir content will be zero AF at the end of September 2017.

Reasonable Maximum Condition 2017

October through March: Guernsey Reservoir had a storage of zero AF at the beginning of WY 2017. Under the reasonable maximum inflow conditions, no natural inflow will be stored during the winter due to work being performed on the North Spillway Gate. Glendo Reservoir content is expected to increase from the starting content of 152,642 AF to an end of March 2017 content of 441,200 AF.

April through September: Under maximum conditions, re-regulation water will be released as natural flow to meet irrigation demands until the supply is used as required. A total 2,188,000 AF of water will be released from Guernsey Reservoir under reasonable maximum conditions. Guernsey Reservoir will maintain a content of 28,000 AF in April 2017 and remain at that level through August 2017. Under reasonable maximum conditions Glendo Reservoir will increase to peak storage of 492,000 AF in June 2017. During September 2017 releases will be scheduled to lower Guernsey Reservoir to approximately zero AF.

The operating plan shown assumes no downstream flow restrictions and normal irrigation deliveries. Glendo storage is projected to decrease to about 352,300 AF by the end of July 2017 and will be about 145,200 AF by the end of September 2017. This end of year Glendo storage would be 115 percent of average and the total System storage at the end of WY 2017 would be 2,000,000 AF, 144 percent of average.

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.

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

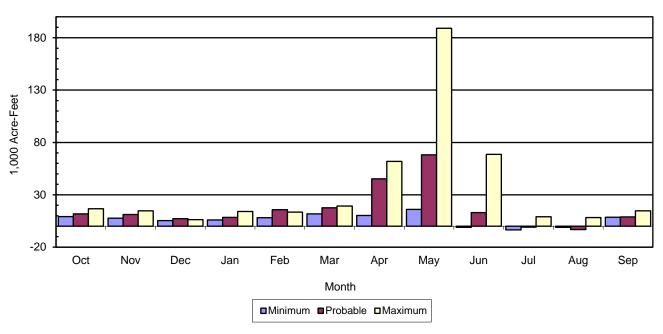


Figure 17 Gains to North Platte River from Alcova Dam to Glendo Reservoir (Predicted for Water Year 2017)

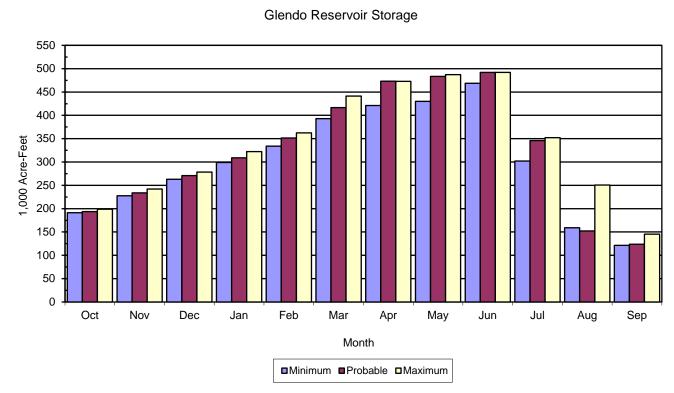


Figure 18 Glendo Reservoir Storage (Predicted for Water Year 2017)

Ownerships

Most Probable Condition 2017

Stored water which is held in active conservation capacity amounts for various entities is referred to as their ownership. At the close of WY 2017 the North Platte Project storage ownership is expected to be at 697,400 AF (178 percent of average); the Kendrick Project storage ownership is expected to be at 1,119,400 AF (130 percent of average). Glendo storage ownership at the end of WY 2017 is expected to be 157,500 AF (122 percent of average).

Reasonable Minimum Condition 2017

The North Platte Project storage ownership is expected to be at 317,700 AF (81 percent of average) at the close of WY 2017. The Kendrick Project storage ownership is expected to be near 964,100 AF which is 112 percent of average at the close of WY 2017. The Kendrick Project ownership will not accrue any water under the reasonable minimum conditions. Glendo storage ownership is expected to be 144,000 AF (112 percent of average) at the close of WY 2017 under the reasonable minimum inflow conditions.

Reasonable Maximum Condition 2017

Under reasonable maximum inflow conditions all storage water ownerships, in the North Platte River system, will fill during WY 2017. About 694,900 AF will be captured in the reservoirs as re-regulation water in the North Platte System under maximum condition. The water in the 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 Ownerships at the end of WY 2017.

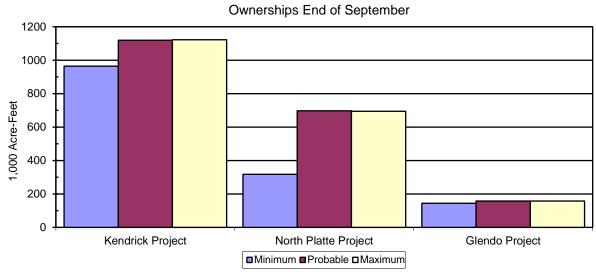


Figure 19 Ownerships at the End of September (Predicted for Water Year 2017)

Most Probable Generation Water Year 2017

The most probable power generation breakdown for each powerplant.

 Table 13 Most Probable Power Generation Water Year 2017

Powerplant	Gross generation ¹ (GWh)	Percent of Average ²
Seminoe	152.891	124
Kortes	146.199	112
Fremont Canyon	242.638	116
Alcova	123.719	118
Glendo	92.153	117
Guernsey	18.994	110
Total Basin	776.594	120

¹ Gross generation is based on October 2016 storage and most probable inflow.

The Facilities Management Division creates a schedule of maintenance for all generating units. See Table 14 for the maintenance schedule for WY 2017.

Table 14 Proposed Generating Unit Maintenance Schedule (October 2016 through September 2017)

Facility and Unit No.	Scheduled Period	Description of Work
Seminoe Unit #1	09-06-16 through 11-14-16	Annual Maintenance
Seminoe Unit #2	01-09-17 through 02-21-17	Annual Maintenance
Seminoe Unit #3	11-14-16 through 01-12-17	Annual Maintenance
Kortes Unit #1	09-19-16 through 11-03-16	Annual Maintenance
Kortes Unit #2	01-23-17 through 03-30-17	Annual Maintenance
Kortes Unit #3	11-21-16 through 12-29-16	Annual Maintenance
Fremont Unit #1	10-04-16 through 11-17-16	Annual Maintenance
Fremont Unit #2	11-21-16 through 12-29-16	Annual Maintenance
Fremont Unit #2	12-05-16 through 12-08-16	Transformer Control
Alcova Unit #1	01-05-17 through 02-09-17	Annual Maintenance
Alcova Unit #2	02-14-17 through 03-30-17	Annual Maintenance
Glendo Unit #1	10-17-16 through 11-03-16	Annual Maintenance
Glendo Unit #2	10-17-16 through 12-13-16	Annual Maintenance
Guernsey Unit #1	10-24-16 through 11-07-16	Annual Maintenance
Guernsey Unit #2	10-24-16 through 11-07-16	Annual Maintenance

Gross generation is reported in giga-watt hours (GWh). ² 30 year average (1986-2016)

Table 15: Most Probable Operating Plan for Water Year 2017

NPRAOP V1.1K 21-Mar-2003 Run: 12-Jan-2017 12:48

Based on Expected April - July Inflow: Seminoe 765 kaf, Sweetwater 53 kaf, Glendo 122 kaf

NORTH PLATTE RIVER OPERATING PLAN Year Beginning Oct 2016

HYDROLOGY OPERATIONS

End-month elevation

Initial Content 797.8 Kaf Operating Limits: Max 1017.3 Kaf, 6357.00 Ft. Seminoe Reservoir Operations _____ Min 31.7 Kaf, 6239.02 Ft. May Oct Nov Dec Jan Feb Mar Apr Jun .Tu1 Aug Sep ----------Total Inflow 30.2 28.5 51.6 112.7 240.9 316.7 94.8 kaf 24.6 22.7 23.4 34.7 19.0 Total Inflow 421. 1894. 3918. 319. cfs 491. 479. 400. 369. 839. 5322. 1542. 564. Turbine Release 32.6 31.5 32.6 32.6 29.5 61.5 107.1 153.7 179.7 116.5 61.5 35.7 kaf 0.0 0.0 22.9 Jetflow Release kaf 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 32.6 32.6 32.6 61.5 116.5 61.5 Total Release kaf 31.5 29.5 107.1 153.7 202.6 35.7 Total Release cfs 530. 529. 530. 530. 531. 1000. 1800. 2500. 3405. 1895. 1000. 600. Evaporation kaf 4.7 2.5 1.3 1.4 2.8 5.2 5.3 9.3 10.6 8.9 6.3 762.1* 750.2* 750.9* 829.4* 935.3* 903.6* 868.6* 846.3* kaf 791.4 788.4 779.7 769.0 End-month content End-month elevation ft 6344.8 6344.6 6344.0 6343.4 6343.0 6342.2 6342.3 6347.0 6352.8 6351.1 6349.2 6348.0 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 32.6 31.5 61.5 107.1 153.7 202.6 kaf 32.6 32.6 29.5 116.5 61.5 35.7 Total Inflow 1000. 1800. 2500. 3405. 1895. 1000. cfs 530. 529. 530. 530. 531. 600. Turbine Release 32.5 31.5 32.6 32.6 29.5 61.5 107.1 153.7 155.3 116.5 61.5 35.7 kaf 0.0 Spillway Release kaf 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 47.3 0.0 0.0 29.5 107.1 153.7 Total Release kaf 32.5 31.5 32.6 32.6 61.5 202.6 116.5 61.5 35.7 2500. Total Release 1000. cfs 529. 529. 530. 530. 531. 1800. 3405. 1895. 1000. 600. Pathfinder Reservoir Operations Initial Content 873.4 Kaf Operating Limits: Max 1095.0 Kaf, 5853.56 Ft. Min 31.4 Kaf, 5746.00 Ft. May Sep Nov Dec Mar Jun Jul Aug Oct Jan Apr Sweetwater Inflow kaf 3.2 3.6 3.7 4.9 12.9 18.7 16.4 5.0 2.2 Kortes-Path Gain kaf 1.1 -0.1 0.0 1.0 1.9 5.0 6.8 8.3 3.2 4.1 6.5 3.6 Inflow from Kortes kaf 32.5 31.5 32.6 32.6 29.5 61.5 107.1 153.7 202.6 116.5 61.5 70.2 Total Inflow 35.2 71.4 125.6 kaf 36.8 35.0 36.1 37.3 126.8 180.7 222.2 40.6 Total Inflow 598. 588. 587. 607. 634. 1161. 2131. 2939. 3734. 2043. Turbine Release kaf 1.5 25.6 26.3 26.3 23.8 45.0 67.4 104.8 163.6 169.1 135.9 78.1 Jetflow Release kaf 4.6 4.5 4.6 4.6 4.2 4.6 4.5 4.6 18.0 34.1 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 71.9 Total Release kaf 6.1 30.1 30.9 30.9 28.0 49.6 109.4 181.6 203.2 140.5 82.6 Total Release cfs 99. 506. 503. 503. 504. 807. 1208. 1779. 3052. 3305. 2285. 1388. Evaporation kaf 5.7 3.1 3.6 6.9 8.7 898.4 900.2 903.7 908.4 913.9 932.1 980.1 1042.7 1070.0 977.9 End-month content kaf 895.4 844.5 End-month elevation ft 5844.5 5844.6 5844.8 5845.0 5845.3 5846.2 5848.4 5851.3 5852.5 Alcova Reservoir Operations Initial Content 180.5 Kaf Operating Limits: Max 184.4 Kaf, 5500.00 Ft. Min 145.3 Kaf, 5483.12 Ft. Oct Nov Mar Apr May Jun Jul Aug Sep Total Inflow 71.9 6.1 30.1 30.9 30.9 28.0 49.6 109.4 181.6 203.2 140.5 82.6 Total Inflow cfs 99. 506. 503. 503. 504. 807. 1208. 1779. 3052. 3305. 2285. 1388. Turbine Release kaf 30.0 29.8 30.7 30.7 27.8 166.2 184.6 123.1 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 Casper Canal Release kaf 0.0 0.0 0.0 0.0 0.0 0.0 0.0 10.0 14.0 17.0 16.0 Total Release kaf 30.0 29.8 30.7 30.7 27.8 49.2 47.6 108.4 180.2 201.6 139.1 81.5 Total Release 488. 501. 499. 499. 501. 800. 800. 1763. 3028. 3279. 2262. Evaporation kaf 0.7 0.3 0.2 0.2 0.4 0.8 1.0 155.9* 155.9* 155.9* 155.9* 155.9* 155.9* 155.9* 179.4* 179.4* 179.4* 179.4* 179.4* End-month content kaf

ft 5487.9 5487.9 5487.9 5487.9 5487.9 5487.9 5498.0 5498.0 5498.0 5498.0 5498.0

Table 15: (Continued) Most Probable Operating Plan for Water Year 2017

NORTH PLATTE RIVER OPERATING PLAN

					rcur	Degimi	ng occ 1	010					
Gray Reef Reservoir	-	tions		Initial	Content	1.8	Kaf	Operat	ing Limi			Kaf, 532	
										Min		Kaf, 530	
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Total Inflow	kaf	30.0	29.8	30.7	30.7	27.8	49.2	47.6	98.4	166.2	184.6	123.1	71.5
Total Inflow	cfs	488.	501.	499.	499.	501.	800.	800.	1600.	2793.	3002.	2002.	1202.
Total Release	kaf	30.7	29.8	30.7	30.7	27.8	49.2	47.6	98.4	166.1	184.5	123.0	71.4
Total Release	cfs	499.	501.	499.	499.	501.	800.	800.	1600.	2791.	3001.	2000.	1200.
Glendo Reservoir Ope				Tnitial	Content	152.6	vof	Onomat	ina Timi	ts: Max	700 4	Kaf, 465	4 45 P+
Giendo Reservoir Ope	Tacic			Iniciai	Concent	132.0	Kal	Operac	ING DIMI	Min		Kaf, 457	
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Alcova-Glendo Gain	kaf	11.7	11.1	7.2	8.4	15.7	17.5	45.2	68.2	13.0	-0.9	-3.2	8.9
Infl from Gray Reef	kaf	30.7	29.8	30.7	30.7	27.8	49.2	47.6	98.4	166.1	184.5	123.0	71.4
Total Inflow	kaf	42.4	40.9	37.9	39.1	43.5	66.7	92.8	166.6	179.1	183.6	119.8	80.3
Total Inflow	cfs	690.	687.	616.	636.	783.	1085.	1560.	2709.	3010.	2986.	1948.	1349.
Turbine Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	32.8	149.8	162.3	231.1	221.4	104.9
Low Flow Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	89.7	84.1	0.0
Total Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	32.8	151.3	163.8	322.3	307.0	106.4
Total Release	cfs	0.	0.	0.	0.	0.	0.	551.	2461.	2753.	5242.	4993.	1788.
Evaporation	kaf	1.3	0.9	0.8	0.8	1.0	1.8	3.2	5.0	6.9	7.0	4.5	2.3
End-month content	kaf	193.7	233.7	270.8	309.1	351.6#	416.5*	473.3*	483.6*	492.0*	345.9#	152.3*	123.9*
End-month elevation	ft	4601.9	4607.6	4612.4	4617.0	4621.7	4628.3	4633.4	4634.3	4635.0	4621.1	4595.0	4589.5
Guernsey Reservoir O	norat	iona		Tnitial	Content	0.5	Vaf	Onorat	ing Limi	ts: Max	41 6	Kaf, 441	0 20 E+
				IIIICIGI	COILCEILC	0.5	Kai	Operac	ing nimi	Min		Kaf, 437	
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Glendo-Guerns Gain	kaf	2.1	1.8	1.4	1.4	1.3	1.5	5.7	8.5	2.7	2.3	0.3	5.2
Inflow from Glendo	kaf	0.0	0.0	0.0	0.0	0.0	0.0	32.8	151.3	163.8	322.3	307.0	106.4
Total Inflow	kaf	2.1	1.8	1.4	1.4	1.3	1.5	38.5	159.8	166.5	324.6	307.3	111.6
Total Inflow	cfs	34.	30.	23.	23.	23.	24.	647.	2599.	2798.	5279.	4998.	1875.
Turbine Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	9.6	53.6	51.8	53.6	53.6	56.1
Seepage	kaf	2.6	1.8	1.4	1.4	1.3	1.5	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	104.3	110.7	266.8	250.3	82.6
Total Release	kaf	2.6	1.8	1.4	1.4	1.3	1.5	10.0	159.1	165.5	323.5	306.4	139.0
Total Release	cfs	42.	30.	23.	23.	23.	24.	168.	2588.	2781.	5261.	4983.	2336.
Evaporation	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.7	1.0	1.1	0.9	0.6
End-month content	kaf	0.0	0.0	0.0	0.0	0.0	0.0	28.0*	28.0*	28.0*	28.0*	28.0*	0.0
End-month elevation	ft	4370.0	4370.0	4370.0	4370.0	4370.0	4370.0	4411.9	4411.9	4411.9	4411.9	4411.9	4370.0

Physical EOM Cont kaf 2045.3 2084.1 2116.0 2148.3 2189.4 2260.6 2417.6 2569.0 2710.6 2440.7 2129.6 2000.0

Year Beginning Oct 2016

 Table 15: (Continued) Most Probable Operating Plan for Water Year 2017

NORTH PLATTE RIVER OPERATING PLAN Year Beginning Oct 2016

North Platte Pathfin				Initial	Ownersh	nip 694.8	Kaf,	Accrued t	his wate	r year:	0.0 K	Kaf	
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Net Accrual	kaf	30.2	29.6	26.6	25.9	27.5	58.2	125.9	51.3	0.0	0.0	0.0	0.0
Evaporation	kaf	4.3	2.4	1.5	1.5	1.6	3.3	6.5	8.7	13.3	13.6	12.0	7.3
Deliv fm Ownership	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	226.4	100.0
End-month Ownership	kaf	725.0	754.6	781.2	807.1	834.6	892.8	1018.7	1070.0	1056.7	1043.1	804.7	697.4
North Platte Guernse	y			Initial	Ownersh	nip 0.0	Kaf,	Accrued t	his wate	r year:	0.0 K	Kaf	
	-	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Net Accrual	kaf	0.0	0.0	7.2	8.4	15.7	10.3	0.0	0.0	0.0	0.0	0.0	0.0
Evaporation/Seepage	kaf	0.0	0.0	1.4	1.4	1.3	1.6	0.3	0.3	0.5	0.5	0.5	0.0
Deliv fm Ownership	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	39.5	0.0
End-month Ownership	kaf	0.0	0.0	7.2	15.6	31.3	41.6	41.3	41.0	40.5	40.0	0.0	0.0
Inland Lakes				Initial	Ownersh	nip 0.0	Kaf,	Accrued t	his wate	r year:	0.0 K	(af	
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Net Accrual	l-o-f	11.2	11 1	0.0	0.0	0.0	0.0	20.6	0.0	0.0	0.0	0.0	0.0
	kaf	2.6	11.1	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
Evaporation/Seepage Trnsfr fm Ownership	kaf kaf	0.0	0.0	0.0	0.0	0.0	0.0	10.0	32.4	0.0	0.0	0.0	0.0
End-month Ownership	kaf	11.2	22.3	22.3	22.3	22.2	22.1	32.7	0.0	0.0	0.0	0.0	0.0
Kendrick				Initial	Ownersn	iip iiis.	4 Kar,	Accrued	tnis wat	er year:	0.0	Kai	
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
								Api					
Net Accrual	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	112.8	0.0	0.0	0.0	0.0
Evaporation	kaf	6.9	3.7	2.2	2.1	2.2	4.3	8.1	9.3	15.0	15.3	13.4	10.3
Deliv fm Ownership	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	16.0	10.0
End-month Ownership	kaf	1111.5	1107.8	1105.6	1103.5	1101.3	1097.0	1088.9	1201.7	1186.7	1169.1	1139.7	1119.4
Glendo Unit				Initial	Ownersh	nip 164.1	Kaf,	Accrued t	his wate	r year:	0.0 F	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	7.1	0.5	0.0	0.0	0.0	0.0	0.0
Evaporation	kaf	1.0	0.5	0.3	0.3	0.3	0.6		1.5	2.1	2.1	1.8	1.5
Deliv fm Ownership	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
End-month Ownership	kaf	163.1	162.6	162.3	162.0	161.7	168.2	167.5	166.0	163.9	161.8	160.0	157.5
Re-regulation				Initial	Ownersh	nip 9.5	Kaf,	Accrued t	his wate	r year:	0.0 F	(af	
		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	29.6	25.8	172.5	0.0	0.0	0.0
Evaporation/Seepage	kaf	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.3	0.8	3.1	0.0	0.0
Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	232.9	0.0	0.0
End-month total	kaf	9.4	9.3	9.3	9.3	9.3	9.3	38.8	64.3	236.0	0.0	0.0	0.0

Table 15: (Continued) Most Probable Operating Plan for Water Year 2017

NORTH PLATTE RIVER OPERATING PLAN Year Beginning Oct 2016

City of Cheyenne				Initial	Ownershi	p 7.9	Kaf,						
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Inflow	kaf	0.7	2.5	0.7	0.5	0.6	0.8	0.3	0.6	2.7	1.1	0.7	0.7
Evaporation	kaf	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	1.6	0.5	0.0	0.0
Ownership	kaf	8.6	11.1	11.8	12.3	12.9	13.6	13.8	10.3	11.3	11.8	12.4	13.0
Pacificorp				Initial	Ownershi	.p 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	Ownershi	p 14.6	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	0.1	0.2	0.2	0.2	0.2	0.1
Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.9	0.0
Ownership	kaf	14.5	14.4	14.3	14.2	14.1	14.0	13.9	13.7	13.5	12.9	10.8	10.7
IRRIGATION DELIVER													
Kendrick (Casper Ca	anal)	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	14.0	17.0	16.0	10.0
Delivered	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	14.0	17.0	16.0	10.0
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	s 	0ct	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	126.7	163.5	317.5	306.4	138.0
Glendo Req	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	6.0	0.0	1.0
Inland Lakes Req	kaf	0.0	0.0	0.0	0.0	0.0	0.0	10.0	32.4	0.0	0.0	0.0	0.0
Total Requirement	kaf	0.0	0.0	0.0	0.0	0.0	0.0	10.0	159.1	165.5	323.5	306.4	139.0
Seepage	kaf	2.6	1.8	1.4	1.4	1.3	1.5	0.4	1.2	3.0	3.1	2.5	0.3
Actual Release	kaf	2.6	1.8	1.4	1.4	1.3	1.5	10.0	159.1	165.5	323.5	306.4	139.0

Table 15: (Continued) Most Probable Operating Plan for Water Year 2017

NORTH PLATTE RIVER OPERATING PLAN Year Beginning Oct 2016

POWER GENERATION

Seminoe Power Plant		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Turbine Release	kaf	32.6	31.5	32.6	32.6	29.5	61.5	107.1	153.7	179.7	116.5	61.5	35.7
Bypass	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.9	0.0	0.0	0.0
Maximum generation	gwh	33.478	32.394	33.446	33.382	30.238	33.488	32.403	33.476	31.807	32.615	32.838	31.944
Actual generation	gwh	5.672	5.469	5.641	5.610	5.074	10.578	18.391	26.687	31.807	20.786	10.893	6.283
Percent max generat:	Lon	17.	17.	17.	17.	17.	32.	57.	80.	100.	64.	33.	20.
Average kwh/af		174.	174.	173.	172.	172.	172.	172.	174.	177.	178.	177.	176.
Kortes Power Plant		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Turbine Release	kaf	32.5	31.5	32.6	32.6	29.5	61.5	107.1	153.7	155.3	116.5	61.5	35.7
Bypass	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.3	0.0	0.0	0.0
		28.346	26.712	27.606	27.606	24.940	27.606	26.712	27.606	26.712	27.606	27.606	26.712
Maximum generation	gwh												
Actual generation	gwh	5.590	5.418	5.607	5.607	5.074	10.578	18.421	26.436	26.712	20.038	10.578	6.140
Percent max generat:	Lon	20.	20.	20.	20.	20.	38.	69.	96.	100.	73.	38.	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	1.5	25.6	26.3	26.3	23.8	45.0	67.4	104.8	163.6	169.1	135.9	78.1
		4.6	4.5	4.6	4.6	4.2	45.0	4.5	4.6	18.0	34.1	4.6	4.5
Bypass	kaf												
Maximum generation	gwh	47.241	45.713	47.252	47.255	42.675	47.267	45.753	47.331	45.808	47.340	47.277	45.693
Actual generation	gwh	0.419	7.153	7.349	7.350	6.651	12.578	18.849	29.333	45.808	47.340	37.995	21.813
Percent max generat:	ion	1.	16.	16.	16.	16.	27.	41.	62.	100.	100.	80.	48.
Average kwh/af		279.	279.	279.	279.	279.	280.	280.	280.	280.	280.	280.	279.
Alcova Power Plant		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
month in a Delivere	1			20.5	20.5	27.8	40.0	47.6		166.0	104.6	102.1	71.5
Turbine Release	kaf	30.0	29.8	30.7	30.7		49.2		98.4	166.2	184.6	123.1	
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	27.177	26.588	27.472	27.472	24.820	27.472	26.275	27.552	26.656	27.552	27.552	26.656
Actual generation	gwh	4.143	4.053	4.175	4.175	3.781	6.691	6.569	13.776	23.268	25.844	17.234	10.010
Percent max generat:	ion	15.	15.	15.	15.	15.	24.	25.	50.	87.	94.	63.	38.
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
	1					0.0		22.0	140.0	160.3	231.1	221.4	104.9
Turbine Release	kaf	0.0	0.0	0.0	0.0		0.0	32.8	149.8	162.3			
Bypass	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	91.2	85.6	1.5
Maximum generation	gwh	16.777	18.523	20.362	21.510	20.541	24.240	25.166	26.994	26.397	25.247	20.266	14.291
Actual generation	gwh	0.000	0.000	0.000	0.000	0.000	0.000	3.649	17.055	18.595	25.247	20.266	7.341
Percent max generat:	ion	0.	0.	0.	0.	0.	0.	14.	63.	70.	100.	100.	51.
Average kwh/af		0.	0.	0.	0.	0.	0.	111.	114.	115.	109.	92.	70.
Guernsey Power Plan	=	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	9.6	53.6	51.8	53.6	53.6	56.1
Bypass	kaf	2.6	1.8	1.4	1.4	1.3	1.5	0.4	105.5	113.7	269.9	252.8	82.9
Maximum generation	qwh	0.000	0.000	0.000	0.000	0.000	0.000	3.366	3.795	3.667	3.795	3.795	3.366
-	_	0.000	0.000	0.000	0.000	0.000	0.000	0.576	3.795	3.667	3.795	3.795	3.366
Actual generation	gwh												
Percent max generat:	Lon	0. 0.	0. 0.	0. 0.	0. 0.	0. 0.	0. 0.	17. 60.	100.	100.	100. 71.	100.	100. 60.
Average kwh/af									71.	71.		71.	

Table 16: Reasonable Minimum Operating Plan for Water Year 2017

NORTH PLATTE RIVER OPERATING PLAN Year Beginning Oct 2016

HYDROLOGY OPERATIONS

Seminoe Reservoir Operations				Initial	Content	797.8	Kaf	Operat	ing Limi	ts: Max Min		Kaf, 635 Kaf, 623	
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Total Inflow	kaf	23.1	22.3	21.0	18.3	20.8	44.1	71.9	114.6	118.3	32.5	19.3	13.7
Total Inflow	cfs	376.	375.	342.	298.	375.	717.	1208.	1864.	1988.	529.	314.	230.
10041 111110#	CLD	370.	3,3.	312.	250.	373.	, _ , •	1200.	1001.	1300.	323.	311.	230.
Turbine Release	kaf	32.6	31.5	32.6	32.6	29.4	32.6	47.6	86.1	95.3	98.4	86.1	47.6
Jetflow 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	31.5	32.6	32.6	29.4	32.6	47.6	86.1	95.3	98.4	86.1	47.6
Total Release	cfs	530.	529.	530.	530.	529.	530.	800.	1400.	1602.	1600.	1400.	800.
Evaporation	kaf	4.7	2.5	1.4	1.3	1.3	2.7	5.2	5.2	8.5	9.2	7.3	5.0
End-month content	kaf	784.3	775.1	762.8	747.7	738.4	748.0*	767.4#	787.3*	802.9*	728.4	* 655.0*	616.8*
End-month elevation	ft	6344.3	6343.8	6343.0	6342.1	6341.5	6342.1	6343.3	6344.5	6345.4	6340.8	6335.9	6333.2
Kortes Reservoir Ope				Initial	Content	4.7	Kaf	Operat:	ing Limi			Kaf, 614	
	Oct Nov Dec Ja:									Min		Kaf, 609	
		000	NOV	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Total Inflow	kaf	32.6	31.5	32.6	32.6	29.4	32.6	47.6	86.1	95.3	98.4	86.1	47.6
Total Inflow	cfs	530.	529.	530.	530.	529.	530.	800.	1400.	1602.	1600.	1400.	800.
Turbine Release	kaf	32.5	31.5	32.6	32.6	29.4	32.6	47.6	86.1	95.3	98.4	86.1	47.6
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	32.5	31.5	32.6	32.6	29.4	32.6	47.6	86.1	95.3	98.4	86.1	47.6
Total Release	cfs	529.	529.	530.	530.	529.	530.	800.	1400.	1602.	1600.	1400.	800.
	Pathfinder Reservoir Operations			Initial	Content	873.4	Kaf	Operat:	ing Limi	ts: Max Min		Kaf, 585 Kaf, 574	
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Sweetwater Inflow	kaf	1.9	2.3	2.1	2.0	1.9	3.7	9.2	6.2	3.8	1.3	0.9	0.7
Kortes-Path Gain	kaf	-0.8	-1.3	-1.9	-1.2	-0.2	2.9	2.7	4.3	-1.6	-2.0	-0.2	-1.1
Inflow from Kortes	kaf	32.5	31.5	32.6	32.6	29.4	32.6	47.6	86.1	95.3	98.4	86.1	47.6
Total Inflow	kaf	33.6	32.5	32.8	33.4	31.1	39.2	59.5	96.6	97.5	97.7	86.8	47.2
Total Inflow	cfs	546.	546.	533.	543.	560.	638.	1000.	1571.	1639.	1589.	1412.	793.
Turbine Release	kaf	1.5	25.6	26.3	26.3	23.8	45.0	79.3	147.8	159.8	167.9	154.4	54.3
Jetflow Release	kaf	4.6	4.5	4.6	4.6	4.2	4.6	4.5	4.6	4.5	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	6.1	30.1	30.9	30.9	28.0	49.6	83.8	152.4	164.3	172.5	159.0	58.8
Total Release	cfs	99.	506.	503.	503.	504.	807.	1408.	2479.	2761.	2805.	2586.	988.
Evaporation	kaf	5.7	3.1	1.7	1.7	1.7	3.5	6.5	7.5	10.4	10.6	8.4	5.9
End-month content	kaf	895.2	894.5	894.7	895.5	896.9	883.0	852.2	788.9	711.7	626.3	545.7	528.2
End-month elevation	ft	5844.4	5844.3	5844.3	5844.4	5844.4	5843.8	5842.2	5838.9	5834.5	5829.2	5823.6	5822.3
Alcova Reservoir Ope	ratio	ns		Initial	Content	180.5	Kaf	Operat:	ing Limi	ts: Max	184.4	Kaf, 550	0.00 Ft.
								-	-	Min		Kaf, 548	
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Total Inflow	kaf	6.1	30.1	30.9	30.9	28.0	49.6	83.8	152.4	164.3	172.5	159.0	58.8
Total Inflow	cfs	99.	506.	503.	503.	504.	807.	1408.	2479.	2761.	2805.	2586.	988.
Turbine Release	kaf	30.0	29.8	30.7	30.7	27.8	49.2	59.5	141.4	148.9	153.9	141.6	47.7
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		0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	14.0	17.0	16.0	10.0
Total Release	kaf	30.0	29.8	30.7	30.7	27.8	49.2	59.5	151.4	162.9	170.9	157.6	57.7
Total Release	cfs	488.	501.	499.	499.	501.	800.	1000.	2462.	2738.	2779.	2563.	970.
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-month content	kaf	155.9*	155.9*	155.9*	155.9*	155.9*		179.4*	179.4*	179.4*	179.4		179.4*
End-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 2017

NORTH PLATTE RIVER OPERATING PLAN Year Beginning Oct 2016

Total Inflow kaf 30.0 29.8 30.7 30.7 27.8 49.2 59.5 141.4 148.9 153.9 141.6 47 Total Inflow cfs 488. 501. 499. 499. 501. 800. 1000. 2300. 2502. 2503. 2303. 81 Total Release kaf 30.7 29.8 30.7 30.7 27.8 49.2 59.5 141.4 148.9 153.9 141.6 47 Total Release cfs 499. 501. 499. 499. 501. 800. 1000. 2300. 2501. 2501. 2501. 81 Total Release cfs 499. 501. 499. 499. 501. 800. 1000. 2300. 2501. 2501. 2501. 81 Glendo Reservoir Operations	Gray Reef Reservoir	Opera	tions		Initial	Content	1.8	Kaf	Operat	ing Limi	ts: Max Min		Kaf, 532 Kaf, 530	
Total Inflow				Nov	Dec	Jan	Feb	Mar	Apr	May			-	Sep
Total Release	Total Inflow	kaf		29.8	30.7	30.7	27.8	49.2	59.5	141.4				47.7
Total Release	Total Inflow	cfs	488.	501.	499.	499.	501.	800.	1000.	2300.	2502.	2503.	2303.	802.
Total Release		kaf	30.7	29.8	30.7	30.7	27.8	49.2	59.5	141.4	148.8	153.8	141.5	47.6
Not Nov Dec Jan Feb Mar Apr May May Jun Jul Amg Staff 4573.94		cfs					501.							800.
Alcova-Glendo Gain	Glendo Reservoir Ope	ratio	ns		Initial	Content	152.6	Kaf	Operat	ing Limi	ts: Max	789.4	Kaf, 465	4.45 Ft.
Alcova-Glendo Gain kaf 9.2 7.7 5.4 6.0 8.1 11.7 10.3 16.1 -1.0 -3.5 -1.0 Exporation kaf 9.2 7.7 5.4 6.0 8.1 11.7 10.3 16.1 -1.0 -3.5 -1.0 Example from Gray Reef kaf 30.7 29.8 30.7 30.7 27.8 49.2 59.5 141.4 148.8 153.8 141.5 47 Total Inflow kaf 39.9 37.5 36.1 36.7 35.9 60.9 69.8 157.5 147.8 150.3 140.5 567 Total Inflow cfs 649. 630. 587. 587. 646. 990. 1173. 2561. 2484. 2444. 2285. 99 Turbine Release kaf 0.0 0.2 0.0 0.0 0.0 0.0 0.0 38.3 142.8 100.8 227.7 221.4 90 Low Flow Release kaf 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.											Min	63.2	Kaf, 457	3.94 Ft
Alcova-Glendo Gain kaf 9.2 7.7 5.4 6.0 8.1 11.7 10.3 16.1 -1.0 -3.5 -1.0 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun		Aug	Sep
Total Inflow cfs 649. 630. 587. 597. 646. 990. 1173. 2561. 2484. 2444. 2285. 94 Turbine Release kaf 0.0 0.2 0.0 0.0 0.0 0.0 0.0 38.3 142.8 100.8 227.7 221.4 99 Low Flow Release kaf 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	Alcova-Glendo Gain	kaf	9.2	7.7	5.4	6.0	8.1	11.7	10.3	16.1	-1.0		-1.0	8.5
Total Inflow cfs 649. 630. 587. 597. 646. 990. 1173. 2561. 2484. 2444. 2285. 946 Turbine Release kaf 0.0 0.2 0.0 0.0 0.0 0.0 0.0 38.3 142.8 100.8 227.7 221.4 96 Low Flow Release kaf 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 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.	Infl from Gray Reef	kaf	30.7	29.8	30.7	30.7	27.8	49.2	59.5	141.4	148.8	153.8	141.5	47.6
Turbine Release	Total Inflow	kaf	39.9	37.5	36.1	36.7	35.9	60.9	69.8	157.5	147.8	150.3	140.5	56.1
Low Flow Release Kaf 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.5	Total Inflow	cfs	649.	630.	587.	597.	646.	990.	1173.	2561.	2484.	2444.	2285.	943.
Spillway Release Kaf 0.0	Turbine Release	kaf	0.0	0.2	0.0	0.0	0.0	0.0	38.3	142.8	100.8	227.7	221.4	90.2
Trigation Release kaf 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	Low Flow Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5
Total Release kaf 0.0 0.2 0.0 0.0 0.0 0.0 38.3 144.3 102.3 310.2 277.1 93 Total Release cfs 0. 3. 0. 0. 0. 0. 0. 644. 2347. 1719. 5045. 4507. 154 Evaporation kaf 1.3 0.9 0.8 0.7 1.0 1.8 3.2 4.5 6.5 6.6 4.3 2 End-month content kaf 191.2 227.6 262.9 298.9 333.8# 392.9* 421.2* 429.9* 468.9* 302.0* 159.2* 121 End-month elevation ft 4601.5 4606.8 4611.4 4615.8 4619.8 4626.0 4628.7 4629.5 4633.0 4616.2 4596.3 4586 Guernsey Reservoir Operations Initial Content 0.5 Kaf Operating Limits: Max 45.6 Kaf, 4419.99 Min 0.0 Kaf, 4370.00 Glendo-Guerns Gain kaf 2.2 1.5 1.2 1.0 1.2 1.2 0.0 2.6 -1.3 -3.1 -1.2 1 Inflow from Glendo kaf 0.0 0.2 0.0 0.0 0.0 0.0 38.3 144.3 102.3 310.2 277.1 93 Total Inflow kaf 2.2 1.7 1.2 1.0 1.2 1.2 38.3 146.9 101.0 307.1 275.9 93 Total Inflow cfs 36. 29. 20. 16. 22. 20. 644. 2389. 1697. 4995. 4487. 157 Turbine Release kaf 0.0 0.0 0.0 0.0 0.0 0.0 0.0 9.6 53.6 51.8 53.6 53.6 53.6 52 Spillway Release kaf 0.0 0.0 0.0 0.0 0.0 0.0 0.0 91.4 45.2 249.3 218.9 64 Total Release kaf 0.0 0.0 0.0 0.0 0.0 0.0 0.0 91.4 45.2 249.3 218.9 64 Total Release kaf 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 91.4 45.2 249.3 218.9 64 Total Release cfs 44. 29. 20. 16. 22. 16. 168. 2378. 1681. 4977. 4472. 20 Evaporation kaf 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 cfs 0. 3. 0. 0. 0. 0. 644. 2347. 1719. 5045. 4507. 1546 Evaporation kaf 1.3 0.9 0.8 0.7 1.0 1.8 3.2 4.5 6.5 6.6 4.3 2 End-month content kaf 191.2 227.6 262.9 298.9 333.8# 392.9* 421.2* 429.9* 468.9* 302.0* 159.2* 121 End-month elevation ft 4601.5 4606.8 4611.4 4615.8 4619.8 4626.0 4628.7 4629.5 4633.0 4616.2 4596.3 4588 Guernsey Reservoir Operations Oct Nov Dec Jan Feb Mar Apr May Jun Jun Jul Aug School Control Cont	Irrigation Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	81.0	54.2	0.0
Evaporation kaf 1.3 0.9 0.8 0.7 1.0 1.8 3.2 4.5 6.5 6.6 4.3 2 End-month content kaf 191.2 227.6 262.9 298.9 333.8# 392.9* 421.2* 429.9* 468.9* 302.0* 159.2* 121 End-month elevation ft 4601.5 4606.8 4611.4 4615.8 4619.8 4626.0 4628.7 4629.5 4633.0 4616.2 4596.3 4588 Guernsey Reservoir Operations	Total Release	kaf	0.0	0.2	0.0	0.0	0.0	0.0	38.3	144.3	102.3	310.2	277.1	91.7
End-month content kaf 191.2 227.6 262.9 298.9 333.8# 392.9* 421.2* 429.9* 468.9* 302.0* 159.2* 121 End-month elevation ft 4601.5 4606.8 4611.4 4615.8 4619.8 4626.0 4628.7 4629.5 4633.0 4616.2 4596.3 4586 Guernsey Reservoir Operations	Total Release	cfs	0.	3.	0.	0.	0.	0.	644.	2347.	1719.	5045.	4507.	1541.
End-month elevation ft 4601.5 4606.8 4611.4 4615.8 4619.8 4626.0 4628.7 4629.5 4633.0 4616.2 4596.3 4586 Guernsey Reservoir Operations	Evaporation	kaf	1.3	0.9	0.8	0.7	1.0	1.8	3.2	4.5	6.5	6.6	4.3	2.3
Guernsey Reservoir Operations	End-month content	kaf	191.2	227.6	262.9	298.9	333.8#	392.9*	421.2*	429.9*	468.9*	302.0*	159.2*	121.3
Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug San	End-month elevation	ft	4601.5	4606.8	4611.4	4615.8	4619.8	4626.0	4628.7	4629.5	4633.0	4616.2	4596.3	4588.9
Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Second Glendo-Guerns Gain kaf 2.2 1.5 1.2 1.0 1.2 1.2 0.0 2.6 -1.3 -3.1 -1.2 1 Inflow from Glendo kaf 0.0 0.2 0.0 0.0 0.0 38.3 144.3 102.3 310.2 277.1 91 Total Inflow kaf 2.2 1.7 1.2 1.0 1.2 1.2 38.3 144.9 101.0 307.1 275.9 93 Total Inflow cfs 36. 29. 20. 16. 22. 20. 644. 2389. 1697. 4995. 4487. 157 Turbine Release kaf 0.0 0.0 0.0 0.0 0.0 9.6 53.6 51.8 53.6 53.6 58.6 58.6 58.8 53.6 51.8 53.6 53.6 59.6	Guernsey Reservoir C	perat	ions		Initial	Content	0.5	Kaf	Operat	ing Limi	ts: Max	45.6	Kaf, 441	9.99 Ft
Glendo-Guerns Gain kaf 2.2 1.5 1.2 1.0 1.2 1.2 0.0 2.6 -1.3 -3.1 -1.2 1.2 Inflow from Glendo kaf 0.0 0.2 0.0 0.0 0.0 0.0 38.3 144.3 102.3 310.2 277.1 91 Total Inflow cfs 36. 29. 20. 16. 22. 20. 644. 2389. 1697. 4995. 4487. 157 Turbine Release kaf 0.0 0.0 0.0 0.0 0.0 0.0 0.0 9.6 53.6 51.8 53.6 53.6 58 Seepage kaf 2.7 1.7 1.2 1.0 1.2 1.0 1.2 1.0 0.4 1.2 3.0 3.1 2.5 0 Spillway Release kaf 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 91.4 45.2 249.3 218.9 64 Total Release kaf 2.7 1.7 1.2 1.0 1.2 1.0 1.2 1.0 10.0 146.2 100.0 306.0 275.0 127 Total Release cfs 44. 29. 20. 16. 22. 16. 168. 2378. 1681. 4977. 4472. 203 Evaporation kaf 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.5 0.7 1.0 1.1 0.9 0 End-month content kaf 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.2 28.0* 28.0* 28.0* 28.0* 28.0* 28.0* End-month elevation ft 4370.0 4370.0 4370.0 4370.0 4378.1 4411.9 44											Min	0.0	Kaf, 437	0.00 Ft.
Glendo-Guerns Gain kaf 2.2 1.5 1.2 1.0 1.2 1.2 0.0 2.6 -1.3 -3.1 -1.2 1.1 Inflow from Glendo kaf 0.0 0.2 0.0 0.0 0.0 0.0 38.3 144.3 102.3 310.2 277.1 91 Total Inflow kaf 2.2 1.7 1.2 1.0 1.2 1.2 38.3 146.9 101.0 307.1 275.9 93 Total Inflow cfs 36. 29. 20. 16. 22. 20. 644. 2389. 1697. 4995. 4487. 157 Turbine Release kaf 0.0 0.0 0.0 0.0 0.0 0.0 0.0 9.6 53.6 51.8 53.6 53.6 58 Seepage kaf 2.7 1.7 1.2 1.0 1.2 1.0 0.4 1.2 3.0 3.1 2.5 0 Spillway Release kaf 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 91.4 45.2 249.3 218.9 64 Total Release kaf 2.7 1.7 1.2 1.0 1.2 1.0 1.2 1.0 10.0 146.2 100.0 306.0 275.0 123 Total Release cfs 44. 29. 20. 16. 22. 16. 168. 2378. 1681. 4977. 4472. 203 Evaporation kaf 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.5 0.7 1.0 1.1 0.9 0 End-month content kaf 0.0 0.0 4370.0 4370.0 4370.0 4378.1 4411.9				Nov	Dec		Feb	Mar	Apr	May	Jun		_	Sep
Total Inflow cfs 36. 29. 20. 16. 22. 20. 644. 2389. 1697. 4995. 4487. 157 Turbine Release kaf 0.0 0.0 0.0 0.0 0.0 0.0 0.0 9.6 53.6 51.8 53.6 53.6 568 Seepage kaf 2.7 1.7 1.2 1.0 1.2 1.0 0.4 1.2 3.0 3.1 2.5 0 Spillway Release kaf 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 91.4 45.2 249.3 218.9 648 Total Release kaf 2.7 1.7 1.2 1.0 1.2 1.0 1.2 1.0 1.4 45.2 249.3 218.9 648 Total Release kaf 2.7 1.7 1.2 1.0 1.2 1.0 1.2 1.0 1.0 146.2 100.0 306.0 275.0 1218 Total Release cfs 44. 29. 20. 16. 22. 16. 168. 2378. 1681. 4977. 4472. 2038 Evaporation kaf 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.5 0.7 1.0 1.1 0.9 008 End-month content kaf 0.0 0.0 4370.0 4370.0 4370.0 4378.1 4411.9 4411.	Glendo-Guerns Gain	kaf		1.5	1.2		1.2	1.2	0.0	2.6	-1.3			1.8
Total Inflow cfs 36. 29. 20. 16. 22. 20. 644. 2389. 1697. 4995. 4487. 157 Turbine Release kaf 0.0 0.0 0.0 0.0 0.0 0.0 9.6 53.6 51.8 53.6 53.6 56 Seepage kaf 2.7 1.7 1.2 1.0 1.2 1.0 0.4 1.2 3.0 3.1 2.5 0 Spillway Release kaf 0.0 0.0 0.0 0.0 0.0 0.0 0.0 91.4 45.2 249.3 218.9 66 Total Release kaf 2.7 1.7 1.2 1.0 1.2 1.0 10.0 146.2 100.0 306.0 275.0 127 Total Release cfs 44. 29. 20. 16. 22. 16. 168. 2378. 1681. 4977. 4472. 203 Evaporation kaf 0.0 0.0 0.0 0.0 0.0 0.0 0.5 0.7 1.0 1.1 0.9 0 End-month content kaf 0.0 0.0 0.0 0.0 0.0 0.0 0.2 28.0* 28.0* 28.0* 28.0* 28.0* End-month elevation ft 4370.0 4370.0 4370.0 4370.0 4378.1 4411.9 4411.9 4411.9 4411.9 4411.9 4411.9	Inflow from Glendo	kaf	0.0	0.2	0.0	0.0	0.0	0.0	38.3	144.3	102.3	310.2	277.1	91.7
Turbine Release kaf 0.0 0.0 0.0 0.0 0.0 0.0 9.6 53.6 51.8 53.6 53.6 56 58 58 58 58 59 59 59 59 59 59 59 59 59 59 59 59 59	Total Inflow	kaf	2.2	1.7	1.2	1.0	1.2	1.2	38.3	146.9	101.0	307.1	275.9	93.5
Seepage kaf 2.7 1.7 1.2 1.0 1.2 1.0 0.4 1.2 3.0 3.1 2.5 6 Spillway Release kaf 0.0 0.0 0.0 0.0 0.0 91.4 45.2 249.3 218.9 64 Total Release kaf 2.7 1.7 1.2 1.0 1.2 1.0 10.0 146.2 100.0 306.0 275.0 127 Total Release cfs 44. 29. 20. 16. 22. 16. 168. 2378. 1681. 4977. 4472. 203 Evaporation kaf 0.0 0.0 0.0 0.0 0.0 0.5 0.7 1.0 1.1 0.9 0.0 End-month content kaf 0.0 0.0 0.0 0.0 0.0 0.2 28.0* 28.0* 28.0* 28.0* 28.0* 28.0* 28.0* 28.0* 28.0* 28.0* 28.0* 28.0* <	Total Inflow	cfs	36.	29.	20.	16.	22.	20.	644.	2389.	1697.	4995.	4487.	1571.
Spillway Release kaf 0.0 0.0 0.0 0.0 0.0 0.0 0.0 91.4 45.2 249.3 218.9 64 Total Release kaf 2.7 1.7 1.2 1.0 1.2 1.0 10.0 146.2 100.0 306.0 275.0 123 Total Release cfs 44. 29. 20. 16. 22. 16. 168. 2378. 1681. 4977. 4472. 203 Evaporation kaf 0.0 0.0 0.0 0.0 0.0 0.0 0.5 0.7 1.0 1.1 0.9 0 End-month content kaf 0.0 0.0 0.0 0.0 0.0 0.0 0.2 28.0* 28.0* 28.0* 28.0* 28.0* 28.0* End-month elevation ft 4370.0 4370.0 4370.0 4370.0 4378.1 4411.9 4411.9 4411.9 4411.9 4411.9 4411.9	Turbine Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	9.6	53.6	51.8	53.6	53.6	56.1
Total Release kaf 2.7 1.7 1.2 1.0 1.2 1.0 10.0 146.2 100.0 306.0 275.0 121 Total Release cfs 44. 29. 20. 16. 22. 16. 168. 2378. 1681. 4977. 4472. 203 Evaporation kaf 0.0 0.0 0.0 0.0 0.0 0.0 0.5 0.7 1.0 1.1 0.9 Cend-month content kaf 0.0 0.0 0.0 0.0 0.0 0.0 0.2 28.0* 28.0* 28.0* 28.0* 28.0* 28.0* End-month elevation ft 4370.0 4370.0 4370.0 4370.0 4378.1 4411.9 4411.9 4411.9 4411.9 4411.9 4411.9	Seepage	kaf	2.7	1.7	1.2	1.0	1.2	1.0	0.4	1.2	3.0	3.1	2.5	0.3
Total Release cfs 44. 29. 20. 16. 22. 16. 168. 2378. 1681. 4977. 4472. 203 Evaporation kaf 0.0 0.0 0.0 0.0 0.0 0.0 0.5 0.7 1.0 1.1 0.9 0 End-month content kaf 0.0 0.0 0.0 0.0 0.0 0.2 28.0* 28.0* 28.0* 28.0* 28.0* 28.0* End-month elevation ft 4370.0 4370.0 4370.0 4370.0 4378.1 4411.9 4411.9 4411.9 4411.9 4411.9	Spillway Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	91.4	45.2	249.3	218.9	64.6
Evaporation kaf 0.0 0.0 0.0 0.0 0.0 0.0 0.5 0.7 1.0 1.1 0.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Total Release	kaf	2.7	1.7	1.2	1.0	1.2	1.0	10.0	146.2	100.0	306.0	275.0	121.0
End-month content kaf 0.0 0.0 0.0 0.0 0.0 0.2 28.0* 28.0* 28.0* 28.0* 28.0* 28.0* End-month elevation ft 4370.0 4370.0 4370.0 4370.0 4370.1 4411.9 44	Total Release	cfs	44.	29.	20.	16.	22.	16.	168.	2378.	1681.	4977.	4472.	2033.
End-month elevation ft 4370.0 4370.0 4370.0 4370.0 4370.0 4378.1 4411.9 4411.9 4411.9 4411.9 4411.9 4411.9	Evaporation	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.7	1.0	1.1	0.9	0.5
		lea f	0.0	0.0	0.0	0.0	0.0	0.2	28.0*	28.0*	28.0*	28.0*	28.0*	0.0
	End-month content	rar												
Physical EOM Cont kaf 2032.5 2059.0 2082.2 2103.9 2130.9 2185.9 2254.1 2219.4 2196.8 1870.0 1573.2 1451			4370.0	4370.0	4370.0	4370.0	4370.0	4378.1	4411.9	4411.9	4411.9	4411.9	4411.9	4370.0

Table 16: (Continued) Reasonable Minimum Operating Plan for Water Year 2017

Release

End-month total

kaf

kaf

0.0

9.4

0.0

9.4

0.0

9.4

0.0

9.4

0.0

9.4

0.0

9.4

0.0

9.3

0.0

9.2

0.0

9.1

9.0

0.0

0.0

0.0

0.0

0.0

NPRAOP V1.1K 21-Mar-2003 Run: 12-Jan-2017 12:59

Based on Minimum Expected April-July inflow: Seminoe 337 KAF / Sweetwater 21 KAF / Alcova-Glendo 22 KAF

NORTH PLATTE RIVER OPERATING PLAN Year Beginning Oct 2016

OWNERSHIP OPERATIONS Initial Ownership 694.8 Kaf. Accrued this water year: North Platte Pathfinder 0.0 Kaf Oct Nov Dec Jan Feb Mar Apr May Jun Tu1 Aug Sep 47.5 77.5 0.0 Net Accrual kaf 19.9 20.9 19.7 17.7 21.0 6.1 6.5 0.0 0.0 Evaporation kaf 4.3 2.4 1.5 1.4 1.5 3.2 6.3 7.7 11.7 12.3 8.2 4.0 Deliv fm Ownership kaf 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 235.8 257.2 96.4 773.0 End-month Ownership 794.0 925.1 931.6 kaf 714.7 735.6 755.3 841.5 919.0 683.5 418.1 317.7 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 1 Aug Sep 0.0 5.4 6.0 8.1 0.0 0.0 0.0 Net Accrual kaf 0.0 11.8 0.0 0.0 0.0 Evaporation/Seepage kaf 0.0 0.0 1.2 1.0 1.2 1.1 0.2 0.3 0.4 0.4 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 30.0 0.0 0.0 End-month Ownership kaf 0.0 0.0 5.4 11.4 19.5 31.3 31.1 30.8 30.4 0.0 0.0 0.0 0.0 Kaf, Accrued this water year: Inland Lakes Initial Ownership 0.0 Kaf ---------Oct Nov Dec Jan Feb Mar Apr May Jun Tu1 Aug Sep Net Accrual kaf 8.7 7.5 0.0 0.0 0.0 0.0 10.2 0.0 0.0 0.0 0.0 0.0 Evaporation/Seepage kaf 2.7 1.7 0.0 0.0 0.0 0.1 0.1 0.1 0.0 0.0 0.0 0.0 Trnsfr fm Ownership kaf 0.0 0.0 0.0 0.0 0.0 0.0 10.0 16.2 0.0 0.0 0.0 0.0 End-month Ownership kaf 8.7 16.2 16.2 16.2 16.2 16.1 16.3 0.0 0.0 0.0 0.0 0.0 Initial Ownership 1118.4 Kaf, Accrued this water year: Kendrick 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 6.9 3.7 2.2 2.1 2.2 4.3 8.1 9.1 13.4 13.9 12.1 9.3 Deliv fm Ownership kaf 0.0 0.0 0.0 0.0 0.0 0.0 0.0 10.0 14.0 17.0 16.0 10.0 1101.3 1097.0 End-month Ownership kaf 1111.5 1107.8 1105.6 1103.5 1088.9 1069.8 1042.4 1011.5 983.4 964.1 Initial Ownership 164.1 Kaf, Accrued this water year: Glendo Unit 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 kaf 1.0 0.6 0.3 0.3 0.4 0.6 1.2 1.4 2.0 2.1 1.8 1.4 Deliv fm Ownership kaf 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 6.0 0.0 1.0 End-month Ownership kaf 163.1 162.5 162.2 161.9 161.5 160.9 159.7 158.3 156.3 148.2 146.4 144.0 Re-regulation Initial Ownership 9.5 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 0.1 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.0 0.0

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Table 16: (Continued) Reasonable Minimum Operating Plan for Water Year 2017

NORTH PLATTE RIVER OPERATING PLAN Year Beginning Oct 2016

City of Cheyenne				Initial	Ownershi	p 7.9	Kaf,						
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Inflow	kaf	0.7	2.5	0.7	0.5	0.6	0.8	0.3	0.6	2.7	1.1	0.7	0.7
Evaporation	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.1	0.1
Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	1.6	0.5	0.0	0.0
Ownership	kaf	8.6	11.1	11.8	12.3	12.9	13.7	13.9	10.4	11.4	11.8	12.4	13.0
Pacificorp				Initial	Ownershi	p 2.0	Kaf,						
		Oat	Nove	Dog	Ton	Ech	Von	3	Vore	Tum	Jul	3	Con
		0ct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun		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	Ownershi	p 14.6	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	0.1	0.1	0.2	0.2	0.2	0.1
Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.9	0.0
Ownership	kaf	14.5	14.4	14.3	14.2	14.1	14.0	13.9	13.8	13.6	13.0	10.9	10.8
IRRIGATION DELIVERY													
Kendrick (Casper Ca	nal)	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	14.0	17.0	16.0	10.0
Delivered	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	14.0	17.0	16.0	10.0
Delivered	naı	0.0	0.0	•••	0.0	0.0	0.0	0.0	10.0	11.0	17.0	10.0	10.0
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	3	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	98.0	300.0	275.0	120.0
Glendo Req	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	6.0	0.0	1.0
Inland Lakes Req	kaf	0.0	0.0	0.0	0.0	0.0	0.0	10.0	16.2	0.0	0.0	0.0	0.0
Total Requirement	kaf	0.0	0.0	0.0	0.0	0.0	0.0	10.0	146.2	100.0	306.0	275.0	121.0
Seepage	kaf	2.7	1.7	1.2	1.0	1.2	1.0	0.4	1.2	3.0	3.1	2.5	0.3
Actual Release	kaf	2.7	1.7	1.2	1.0	1.2	1.0	10.0	146.2	100.0	306.0	275.0	121.0

Table 16: (Continued) Reasonable Minimum Operating Plan for Water Year 2017

NORTH PLATTE RIVER OPERATING PLAN Year Beginning Oct 2016

POWER GENERATION

	eminoe Power Plant		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Tu	rbine Release	kaf	32.6	31.5	32.6	32.6	29.4	32.6	47.6	86.1	95.3	98.4	86.1	47.6
	pass	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
-	ximum generation	gwh	33.475	32.328	33.437	33.488	30.244	33.478	32.405	33,405	32.399	33.488	33.331	31.251
	tual generation	gwh	5.663	5.437	5.607	5.607	5.026	5.574	8.187	14.841	16.582	16.925	14.465	7.854
	ercent max generati	-	17.	17.	17.	17.	17.	17.	25.	44.	51.	51.	43.	25.
	verage kwh/af		174.	173.	172.	172.	171.	171.	172.	172.	174.	172.	168.	165.
	cruge hum, ur		-,	1,5.	-/ - -	_,	±/±•	_,	±,2.	±,2.	-/	_,	100.	105.
Kc	ortes Power Plant		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Tu	rbine Release	kaf	32.5	31.5	32.6	32.6	29.4	32.6	47.6	86.1	95.3	98.4	86.1	47.6
	pass	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
-	ximum 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
	tual generation	qwh	5.590	5.418	5.607	5.607	5.057	5.607	8.187	14.809	16.392	16.925	14.809	8.187
	ercent max generati	_	20.	20.	20.	20.	20.	20.	31.	54.	61.	61.	54.	31.
	verage kwh/af	-011	172.	172.	172.	172.	172.	172.	172.	172.	172.	172.	172.	172.
A	erage kwii/ar		1/2.	1,2.	1/2.	1/2.	1/2.	1/2.	1,2.	1/2.	1/2.	1,2.	1/2.	1,2.
Fr	remont Canyon		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
т.	rbine Release	kaf	1.5	25.6	26.3	26.3	23.8	45.0	79.3	147.8	159.8	167.9	154.4	54.3
	pass	kaf	4.6	4.5	4.6	4.6	4.2	4.6	4.5	4.6	4.5	4.6	4.6	4.5
-	ximum generation	gwh	47.239	45.710	47.247	47.247	42.666	47.243	45.691	47.194	45.211	45.997	45.069	43.041
	tual generation	gwn	0.419	7.153	7.348	7.348	6.650	12.572	22.147	41.249	44.161	45.671	41.151	14.286
	ercent max generati	_	1.	16.	16.	16.	16.	27.	48.	87.	98.	99.	91.	33.
	verage kwh/af	LOII	279.	279.	279.	279.	279.	279.	279.	279.	276.	272.	267.	263.
A	erage kwii/ar		2/5.	2/5.	2/5.	2/5.	2/5.	2/5.	2/5.	275.	270.	2,2.	207.	205.
Al	.cova Power Plant		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Ti	rbine Release	kaf	30.0	29.8	30.7	30.7	27.8	49.2	59.5	141.4	148.9	153.9	141.6	47.7
	pass	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
-	ximum generation	gwh	27.177	26.588	27.472	27.472	24.820	27.472	26.275	27.552	26.656	27.552	27.552	26.656
	tual generation	gwh	4.143	4.053	4.175	4.175	3.781	6.691	8.211	19.796	20.846	21.546	19.824	6.678
	ercent max generati	-	15.	15.	15.	15.	15.	24.	31.	72.	78.	78.	72.	25.
	verage kwh/af	-011	138.	136.	136.	136.	136.	136.	138.	140.	140.	140.	140.	140.
	cruge hum, ur		130.	150.	150.	150.	150.	150.	130.	110.	110.	110.	110.	110.
G1	endo Power Plant		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Ti	rbine Release	kaf	0.0	0.2	0.0	0.0	0.0	0.0	38.3	142.8	100.8	227.7	221.4	90.2
	pass	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	82.5	55.7	1.5
_	ximum generation	gwh	16.703	18.323	20.149	21.234	20.147	23.656	24.092	25.431	25.289	24.286	19.703	14.408
	tual generation	qwh	0.000	0.017	0.000	0.000	0.000	0.000	4.149	15.674	11.250	24.286	19.703	6.355
	ercent max generati	_	0.	0.	0.	0.	0.	0.	17.	62.	44.	100.	100.	44.
	verage kwh/af		0.	85.	0.	0.	0.	0.	108.	110.	112.	107.	89.	70.
Gu	ernsey Power Plant	ŧ	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
		1												
	rbine Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	9.6	53.6	51.8	53.6	53.6	56.1
-	pass	kaf	2.7	1.7	1.2	1.0	1.2	1.0	0.4	92.6	48.2	252.4	221.4	64.9
	ximum generation	gwh	0.000	0.000	0.000	0.000	0.000	0.000	3.372	3.795	3.667	3.795	3.795	3.366
	tual generation	gwh	0.000	0.000	0.000	0.000	0.000	0.000	0.577	3.795	3.667	3.795	3.795	3.366
	ercent max generati	lon	0.	0.	0.	0.	0.	0.	17.	100.	100.	100.	100.	100.
Ατ	verage kwh/af		0.	0.	0.	0.	0.	0.	60.	71.	71.	71.	71.	60.

 Table 17: Reasonable Maximum Operating Plan for Water Year 2017

NORTH PLATTE RIVER OPERATING PLAN Year Beginning Oct 2016

HYDROLOGY OPERATIONS

Seminoe Reservoir Op				Initial	Content	797.8	Kaf	Operat	ing Limi	ts: Max Min		Kaf, 635 Kaf, 623	
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
mat al. Tar 61 and	16							155.0					
Total Inflow	kaf	37.5	34.8	29.0	27.1	29.7	62.6	157.8	389.9	582.8 9794.	222.6	62.1	37.1
Total Inflow	cfs	610.	585.	472.	441.	535.	1018.	2652.	6341.	9794.	3620.	1010.	623.
Turbine Release	kaf	32.6	31.6	32.6	32.6	29.4	92.3	190.6	196.9	180.5	179.3	141.4	47.6
Jetflow Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	47.4	92.1	185.7	54.4	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	31.6	32.6	32.6	29.4	92.3	238.0	289.0	366.2	233.7	141.4	47.6
Total Release	cfs	530.	531.	530.	530.	529.	1501.	4000.	4700.	6154.	3801.	2300.	800.
Evaporation	kaf	4.7	2.6	1.4	1.4	1.4	2.8	5.0	4.9	9.2	11.0	9.1	6.3
End-month content	kaf	798.7	801.8	797.5	791.1	790.6*	758.9*	674.0*	766.6*	975.1*	953.6*	865.9*	849.8*
End-month elevation	ft	6345.2	6345.4	6345.1	6344.7	6344.7	6342.8	6337.2	6343.2	6354.9	6353.8	6349.1	6348.2
Kortes Reservoir Ope	ratio	n a		Tnitial	Content	4.7	Vaf	Oporat	ing Limi	ts: Max	1 0	Kaf, 614	2 72 ₽+
Kortes Reservoir Ope				IIIICIAI	Concent	4.7	Nai	Operat.	THE TIME	us: Max Min		Kaf, 609	
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
m-1-1 T-61	1 6											141 4	45.6
Total Inflow	kaf	32.6	31.6	32.6	32.6	29.4	92.3	238.0	289.0	366.2	233.7	141.4	47.6
Total Inflow	cfs	530.	531.	530.	530.	529.	1501.	4000.	4700.	6154.	3801.	2300.	800.
Turbine Release	kaf	32.5	31.6	32.6	32.6	29.4	92.3	155.3	160.5	155.3	160.5	141.4	47.6
Spillway Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	82.7	128.5	210.9	73.2	0.0	0.0
Total Release	kaf	32.5	31.6	32.6	32.6	29.4	92.3	238.0	289.0	366.2	233.7	141.4	47.6
Total Release	cfs	529.	531.	530.	530.	529.	1501.	4000.	4700.	6154.	3801.	2300.	800.
Pathfinder Reservoir	_			Initial	Content	873.4	Kaf	Operat	ing Limi	ts: Max Min		Kaf, 585 Kaf, 574	
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
5	1 6							10.1		44.1	12.4	4.5	
Sweetwater Inflow	kaf	3.4	3.5	2.7	2.5	2.6	5.9	18.1	44.2	44.1	13.4	4.7	3.0 7.4
Kortes-Path Gain	kaf	4.4	2.3	2.4	4.7	6.3	8.6	11.2	17.4	11.2	8.6	6.8	
Inflow from Kortes	kaf	32.5	31.6	32.6	32.6	29.4	92.3	238.0	289.0	366.2	233.7	141.4	47.6
Total Inflow	kaf	40.3	37.4	37.7	39.8	38.3	106.8	267.3	350.6	421.5	255.7	152.9	58.0
Total Inflow	cfs	655.	629.	613.	647.	690.	1737.	4492.	5702.	7084.	4159.	2487.	975.
Turbine Release	kaf	1.5	25.6	26.3	26.3	23.8	57.3	163.6	169.1	163.6	169.1	169.1	69.2
Jetflow Release	kaf	4.6	4.5	4.6	4.6	4.2	4.6	92.8	81.4	178.5	163.2	106.7	4.5
Spillway Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59.6	0.0	0.0	0.0
Total Release	kaf	6.1	30.1	30.9	30.9	28.0	61.9	256.4	250.5	401.7	332.3	275.8	73.7
Total Release	cfs	99.	506.	503.	503.	504.	1007.	4309.	4074.	6751.	5404.	4485.	1239.
Evaporation	kaf	5.7	3.1	1.7	1.7	1.7	3.6	7.0	8.7	13.4	14.5	12.0	8.6
End-month content	kaf	901.9	906.1	911.2	918.4	927.0	968.3	972.2	1063.6	1070.0	978.9	844.0	819.7
End-month elevation	ft	5844.7	5844.9	5845.1	5845.5	5845.9	5847.9	5848.1	5852.2	5852.5	5848.4	5841.8	5840.5
Alcova Reservoir Ope				Initial	Content	180.5	Kaf	Operat	ing Limi			Kaf, 550	
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Min Jun	100.0 Jul	Kaf, 545 Aug	9.92 Ft. Sep
Total Inflow	kaf	6.1	30.1	30.9	30.9	28.0	61.9	256.4	250.5	401.7	332.3	275.8	73.7
Total Inflow	cfs	99.	506.	503.	503.	504.	1007.	4309.	4074.	6751.	5404.	4485.	1239.
Turbine Release	kaf	30.0	29.8	30.7	30.7	27.8	61.5	190.4	196.8	190.4	196.8	196.8	62.6
Spillway Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	41.7	42.7	195.9	116.9	61.6	0.0
Casper Canal Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	14.0	17.0	16.0	10.0
Total Release	kaf	30.0	29.8	30.7	30.7	27.8	61.5	232.1	249.5	400.3	330.7	274.4	72.6
Total Release	cfs	488.	501.	499.	499.	501.	1000.	3901.	4058.	6727.	5378.	4463.	1220.
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-month content	kaf	155.9*				155.9*		179.4*	179.4*		179.4*		179.4*
End-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 2017

NORTH PLATTE RIVER OPERATING PLAN Year Beginning Oct 2016

Gray Reef Reservoir	_			Initial	Operat	ing Limi	ts: Max Min		1.1 Kaf, 5327 0.0 Kaf, 5306				
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Total Inflow	kaf	30.0	29.8	30.7	30.7	27.8	61.5	232.1	239.5	386.3	313.7	258.4	62.6
Total Inflow	cfs	488.	501.	499.	499.	501.	1000.	3901.	3895.	6492.	5102.	4202.	1052.
Total Release	kaf	30.7	29.8	30.7	30.7	27.8	61.5	232.1	239.5	386.2	313.6	258.3	62.5
Total Release	cfs	499.	501.	499.	499.	501.	1000.	3901.	3895.	6490.	5100.	4201.	1050.
Glendo Reservoir Operations			Initial	Content	152.6	Kaf	Operat	ing Limi	ts: Max	789.4 Kaf, 4654.45 Ft.			
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Min Jun	63.2 Jul	Kaf, 457 Aug	3.94 Ft Sep
21 Glanda Gala		16.8											
Alcova-Glendo Gain	kaf	16.7	14.6	6.3	14.0	13.4	19.2	61.9	189.0	68.6	9.0	8.3	14.6
Infl from Gray Reef	kaf	30.7	29.8	30.7	30.7	27.8	61.5	232.1	239.5	386.2	313.6	258.3	62.5
Total Inflow Total Inflow	kaf cfs	47.4 771.	44.4 746.	37.0 602.	44.7 727.	41.2 742.	80.7 1312.	294.0 4941.	428.5 6969.	454.8 7643.	322.6 5247.	266.6 4336.	77.1 1296.
10001 111110	025		, 200	0021		,				, 0 2 0 0	5227	10001	
Turbine Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	227.3	237.2	230.5	231.4	221.4	178.3
Low Flow Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	31.7	170.3	209.1	222.0	140.2	0.0
Total Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	259.0	409.0	441.1	454.9	363.1	179.8
Total Release	cfs	0.	0.	0.	0.	0.	0.	4353.	6652.	7413.	7398.	5905.	3022.
Evaporation	kaf	1.3	0.9	0.8	0.8	1.0	2.0	3.4	5.0	7.0	7.0	5.0	2.9
End-month content	kaf	198.7	242.2	278.4	322.3	362.5#	441.2*	472.8*	487.3*	492.0*	352.3*	250.8*	145.2
End-month elevation	ft	4602.6	4608.7	4613.4	4618.5	4622.9	4630.6	4633.4	4634.6	4635.0	4621.8	4609.9	4593.7
Guernsey Reservoir O	perat	ions		Initial Content 0.5 Kaf			Operat	ing Limi	ts: Max		Kaf, 441		
										Min		Kaf, 437	
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Glendo-Guerns Gain	kaf	2.1	1.8	1.4	1.4	1.3	1.5	7.5	34.9	22.2	6.5	-0.2	4.3
Inflow from Glendo	kaf	0.0	0.0	0.0	0.0	0.0	0.0	259.0	409.0	441.1	454.9	363.1	179.8
Total Inflow	kaf	2.1	1.8	1.4	1.4	1.3	1.5	266.5	443.9	463.3	461.4	362.9	184.1
Total Inflow	cfs	34.	30.	23.	23.	23.	24.	4479.	7219.	7786.	7504.	5902.	3094.
Turbine Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	56.1	53.6	51.8	53.6	53.6	56.1
Seepage	kaf	2.6	1.8	1.4	1.4	1.3	1.5	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	181.5	388.4	407.5	404.3	305.9	155.1
Total Release	kaf	2.6	1.8	1.4	1.4	1.3	1.5	238.0	443.2	462.3	461.0	362.0	211.5
Total Release	cfs	42.	30.	23.	23.	23.	24.	4000.	7208.	7769.	7497.	5887.	3554.
Evaporation	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.7	1.0	0.4	0.9	0.6
End-month content	kaf	0.0	0.0	0.0	0.0	0.0	0.0	28.0*	28.0*	28.0*	28.0*	28.0*	0.0
End-month elevation	ft	4370.0	4370.0	4370.0	4370.0	4370.0	4370.0	4411.9	4411.9	4411.9	4411.9	4411.9	4370.0

Table 17: (Continued) Reasonable Maximum Operating Plan for Water Year 2017

NORTH PLATTE RIVER OPERATING PLAN Year Beginning Oct 2016

North Platte Pathfin				Initial	Ownersh	ip 694.8	Kaf,	Accrued t	his wate	r year:	0.0 K	af	
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Net Accrual	kaf	41.0	38.1	32.6	32.8	37.0	73.6	120.1	0.0	0.0	0.0	0.0	0.0
Evaporation	kaf	4.3	2.5	1.5	1.5	1.6	3.5	6.8	9.3	13.5	13.2	11.8	7.6
Deliv fm Ownership	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	175.6	144.1
End-month Ownership	kaf	735.8	773.9	806.5	839.3	876.3	949.9	1070.0	1060.7	1047.2	1034.0	846.6	694.9
North Platte Guernsey				Initial	Ownersh	ip 0.0	Kaf,	Accrued t	his wate	r year:	0.0 K	af	
	-												
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Net Accrual	kaf	0.0	0.0	6.3	14.0	13.4	7.9	0.0	0.0	0.0	0.0	0.0	0.0
Evaporation/Seepage	kaf	0.0	0.0	1.4	1.4	1.3	1.6	0.3	0.4	0.5	0.5	0.5	0.0
Deliv fm Ownership	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	39.4	0.0
End-month Ownership	kaf	0.0	0.0	6.3	20.3	33.7	41.6	41.3	40.9	40.4	39.9	0.0	0.0
Inland Lakes				Initial	Ownersh	ip 0.0	Kaf,	Accrued t	his wate	r year:	0.0 K	af	
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Net Accrual	kaf	16.2	14.5	0.0	0.0	0.0	0.0	12.2	0.0	0.0	0.0	0.0	0.0
Evaporation/Seepage	kaf	2.6	1.9	0.0	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	19.4	0.0	0.0	0.0	0.0
End-month Ownership	kaf	16.2	30.7	30.7	30.6	30.5	30.4	19.6	0.0	0.0	0.0	0.0	0.0
Kendrick				Initial	Ownersh	ip 1118.	4 Kaf.	Accrued	this wat	er vear:	0.0	Kaf	
							,						
		0ct	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	52.3	52.4	0.0	0.0	0.0	0.0
Evaporation	kaf	6.9	3.7	2.2	2.1	2.2	4.3	7.9	8.7	15.2	14.9	13.4	10.3
Deliv fm Ownership	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.0	10.0
End-month Ownership	kaf	1111.5	1107.8	1105.6	1103.5	1101.3	1097.0	1149.3	1201.7	1186.5	1171.6	1142.2	1121.9
Glendo Unit				Initial	Ownersh	ip 164.1	Kaf,	Accrued t	his wate	r year:	0.0 K	af	
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Accrual	kaf	0.0	0.0	0.0	0.0	0.0	7.6	0.0	0.0	0.0	0.0	0.0	0.0
Evaporation	kaf	1.0	0.5	0.3	0.3	0.3	0.6	1.2	1.5	2.1	2.1	1.8	1.5
Deliv fm Ownership	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
End-month Ownership	kaf	163.1	162.6	162.3	162.0	161.7	168.7	167.5	166.0	163.9	161.8	160.0	157.5
Re-regulation				Initial	Ownersh	ip 9.5	Kaf,	Accrued t	his wate	r year:	0.0 K	af	
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
3 1	1 6								404				
Accrual	kaf	0.0	0.0	0.0	0.0	0.0	3.6	57.0	494.3	587.9	0.0	0.0	0.0
Evaporation/Seepage	kaf	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.5	3.6	0.7	0.0
Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	215.0	313.8	335.3	217.9	65.3	0.0
End-month total	kaf	9.4	9.4	9.4	9.4	9.4	13.0	-145.1	35.4	287.5	66.0	0.0	0.0

Table 17: (Continued) Reasonable Maximum Operating Plan for Water Year 2017

NORTH PLATTE RIVER OPERATING PLAN Year Beginning Oct 2016

City of Cheyenne				Initial	Ownershi	p 7.9	Kaf,						
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Inflow	kaf	0.7	2.5	0.7	0.5	0.6	0.8	0.3	0.6	2.7	1.1	0.7	0.7
Evaporation	kaf	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	1.6	0.5	0.0	0.0
Ownership	kaf	8.6	11.1	11.8	12.3	12.9	13.6	13.8	10.3	11.3	11.8	12.4	13.0
Pacificorp				Initial	Ownershi	p 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	Ownershi	p 14.6	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	0.1	0.1	0.2	0.2	0.2	0.1
Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.4	0.0	0.0
Ownership	kaf	14.5	14.4	14.3	14.2	14.1	14.0	13.9	13.8	11.6	11.0	10.8	10.7
IRRIGATION DELIVE													
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	14.0	17.0	16.0	10.0
Delivered	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	14.0	17.0	16.0	10.0
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 Deliveri	es	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	110.0	125.0	430.0	362.0	210.5
Glendo Req	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	6.0	0.0	1.0
Inland Lakes Req	kaf	0.0	0.0	0.0	0.0	0.0	0.0	23.0	19.4	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	129.4	127.0	436.0	362.0	211.5
Seepage	kaf	2.6	1.8	1.4	1.4	1.3	1.5	0.4	1.2	3.0	3.1	2.5	0.3
Actual Release	kaf	2.6	1.8	1.4	1.4	1.3	1.5	238.0	443.2	462.3	461.0	362.0	211.5
Spill	kaf	0.0	0.0	0.0	0.0	0.0	0.0	215.0	313.8	335.3	25.0	0.0	0.0

Table 17: (Continued) Reasonable Maximum Operating Plan for Water Year 2017

NORTH PLATTE RIVER OPERATING PLAN Year Beginning Oct 2016

POWER GENERATION

Seminoe Power Plant		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Turbine Release	kaf	32.6	31.6	32.6	32.6	29.4	92.3	190.6	196.9	180.5	179.3	141.4	47.6
Bypass	kaf	0.0	0.0	0.0	0.0	0.0	0.0	47.4	92.1	185.7	54.4	0.0	0.0
Maximum generation	gwh	33.443	32.329	33.425	33.478	30.241	33.390	32.402	33.473	31.878	32.274	32.663	31.944
Actual generation	gwh	5.672	5.498	5.672	5.672	5.107	15.886	32.402	33.473	31.878	32.274	25.169	8.378
Percent max generation	-	17.	17.	17.	17.	17.	48.	100.	100.	100.	100.	77.	26.
Average kwh/af		174.	174.	174.	174.	174.	172.	170.	170.	177.	180.	178.	176.
nverage hun, ar		±, 1.	_,_,	±, 1.	_,	±, 1.	_,	1,0.	1,0.	±,,,•	100.	1,0.	1,0.
Kortes Power Plant		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Turbine Release	kaf	32.5	31.6	32.6	32.6	29.4	92.3	155.3	160.5	155.3	160.5	141.4	47.6
	kaf	0.0	0.0	0.0	0.0	0.0	0.0	82.7	128.5	210.9	73.2	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	qwh	5.590	5.435	5.607	5.607	5.057	15.876	26.712	27.606	26.712	27.606	24.321	8.187
Percent max generation	_	20.	20.	20.	20.	20.	58.	100.	100.	100.	100.	88.	31.
Average kwh/af		172.	172.	172.	172.	172.	172.	172.	172.	172.	172.	172.	172.
Average Kwii/ ar		1,2.	1,2.	1,2.	1/2.	1/2.	1/2.	1,2.	1/2.	1/2.	1/2.	1/2.	1/2.
Fremont Canyon		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Turbine Release	kaf	1.5	25.6	26.3	26.3	23.8	57.3	163.6	169.1	163.6	169.1	169.1	69.2
	kaf	4.6	4.5	4.6	4.6	4.2	4.6	92.8	81.4	238.1	163.2	106.7	4.5
• • • • • • • • • • • • • • • • • • • •		47.242	45.717	47.257	47.261	42.683	47.285	45.763	47.335	45.808	47.340	47.259	45.667
Maximum generation Actual generation	gwh gwh	0.419	7.154	7.350	7.351	6.653	16.023	45.763	47.335	45.808	47.340	47.259	19.316
_	_				16.	16.	34.	100.	100.	100.	100.	100.	42.
Percent max generation)II	1. 279.	16. 279.	16. 279.		280.	280.	280.			280.		279.
Average kwh/af		2/9.	2/9.	2/9.	280.	280.	280.	280.	280.	280.	280.	279.	2/9.
Alcova Power Plant		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Turbine Release	kaf	30.0	29.8	30.7	30.7	27.8	61.5	190.4	196.8	190.4	196.8	196.8	62.6
	kaf	0.0	0.0	0.0	0.0	0.0	0.0	41.7	42.7	195.9	116.9	61.6	0.0
Maximum generation	gwh	27.177	26.588	27.472	27.472	24.820	27.472	26.275	27.552	26.656	27.552	27.552	26.656
Actual generation	gwh	4.143	4.053	4.175	4.175	3.781	8.364	26.275	27.552	26.656	27.552	27.552	8.764
Percent max generation	-	15.	15.	15.	15.	15.	30.	100.	100.	100.	100.	100.	33.
Average kwh/af	,11	138.	136.	136.	136.	136.	136.	138.	140.	140.	140.	140.	140.
Average Kwii/ai		130.	130.	130.	130.	130.	130.	130.	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	227.3	237.2	230.5	231.4	221.4	178.3
	kaf	0.0	0.0	0.0	0.0	0.0	0.0	31.7	171.8	210.6	223.5	141.7	1.5
Maximum generation	gwh	16.926	18.764	20.607	21.826	20.842	24.748	25.501	27.034	26.442	25.337	21.863	17.666
Actual generation	qwh	0.000	0.000	0.000	0.000	0.000	0.000	25.501	27.034	26.442	25.337	21.863	14.808
Percent max generation	_	0.	0.	0.	0.	0.	0.	100.	100.	100.	100.	100.	84.
Average kwh/af		0.	0.	0.	0.	0.	0.	112.	114.	115.	109.	99.	83.
Guernsey Power Plant		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
moulding Dollars													
	kaf	0.0	0.0	0.0	0.0	0.0	0.0	56.1	53.6	51.8	53.6	53.6	56.1
Bypass	kaf	2.6	1.8	1.4	1.4	1.3	1.5	181.9	389.6	410.5	407.4	308.4	155.4
Maximum generation	gwh	0.000	0.000	0.000	0.000	0.000	0.000	3.366	3.795	3.667	3.795	3.795	3.366
Actual generation	gwh	0.000	0.000	0.000	0.000	0.000	0.000	3.366	3.795	3.667	3.795	3.795	3.366
Percent max generation	on	0.	0.	0.	0.	0.	0.	100.	100.	100.	100.	100.	100.
Average kwh/af		0.	0.	0.	0.	0.	0.	60.	71.	71.	71.	71.	60.

Page

5

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 Watt 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 (WY): October 1 through September 30.

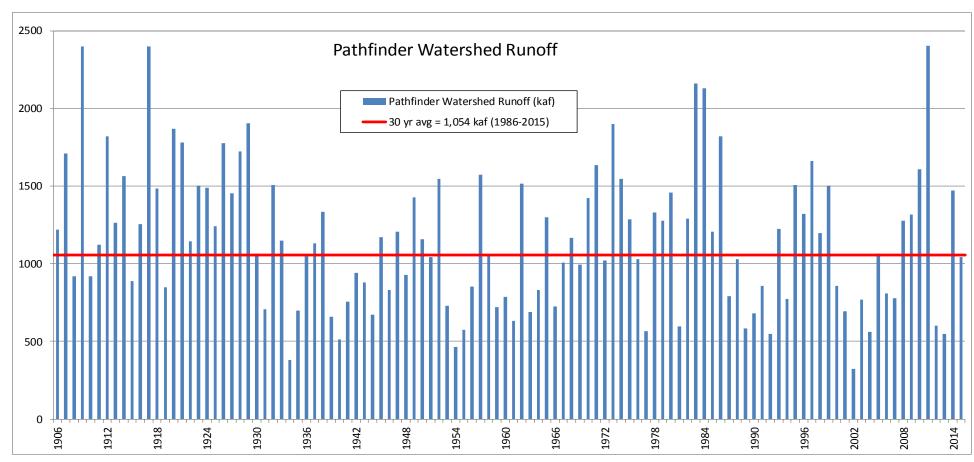


Figure 20 Pathfinder Watershed Runoff 1906-2016

RESERVOIR DATA DEFINITION SHEET

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 this data the following standard definitions of water surface elevations and reservoir capacities shall be used.

B. Water Surface Elevation Definitions:

<u>Maximum Water Surface:</u> 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.

<u>Top of Exclusive Flood Control Capacity:</u> 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.

<u>Maximum Controllable Water Surface Elevation:</u> The highest reservoir water surface elevation at which gravity flows from the reservoir can be completely shut off.

<u>Top of Joint Use Capacity:</u> The reservoir water surface elevation at the top of the reservoir capacity allocated to joint use, i.e., flood control and conservation purposes.

<u>Top of Active Conservation Capacity:</u> The reservoir water surface elevation at the top of the capacity allocated to the storage of water for conservation purposes only.

<u>Top of Inactive Capacity:</u> 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.

<u>Streambed at the Dam Axis:</u> 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:

<u>Surcharge Capacity:</u> 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

<u>Total Capacity:</u> 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.

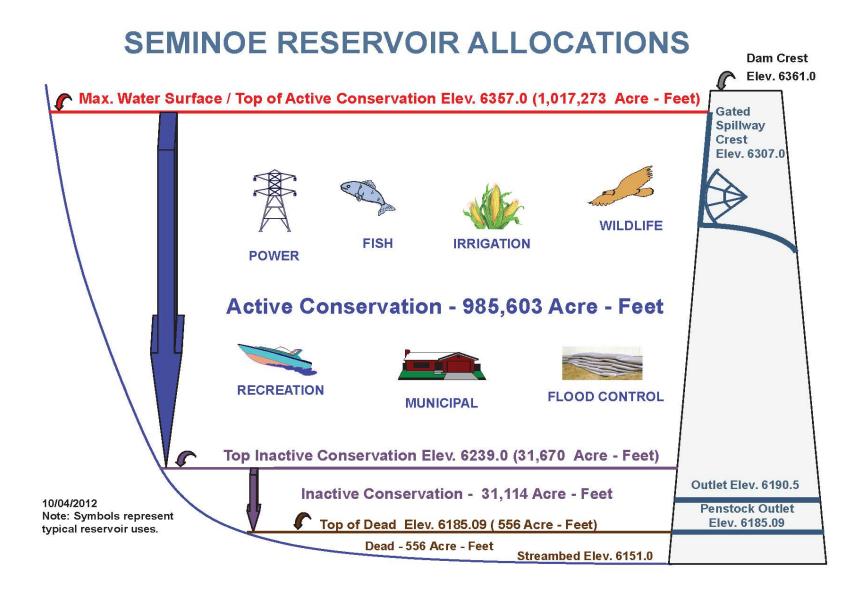
Active Capacity: The reservoir capacity normally usable for storage and regulation of reservoir inflows to meet established reservoir operating requirements. Active capacity extends from the highest of the top of exclusive flood control capacity, the top of joint use capacity, or the top of active conservation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

<u>Exclusive Flood Control Capacity:</u> The reservoir capacity assigned to the sole purpose of regulating flood inflows to reduce flood damage downstream.

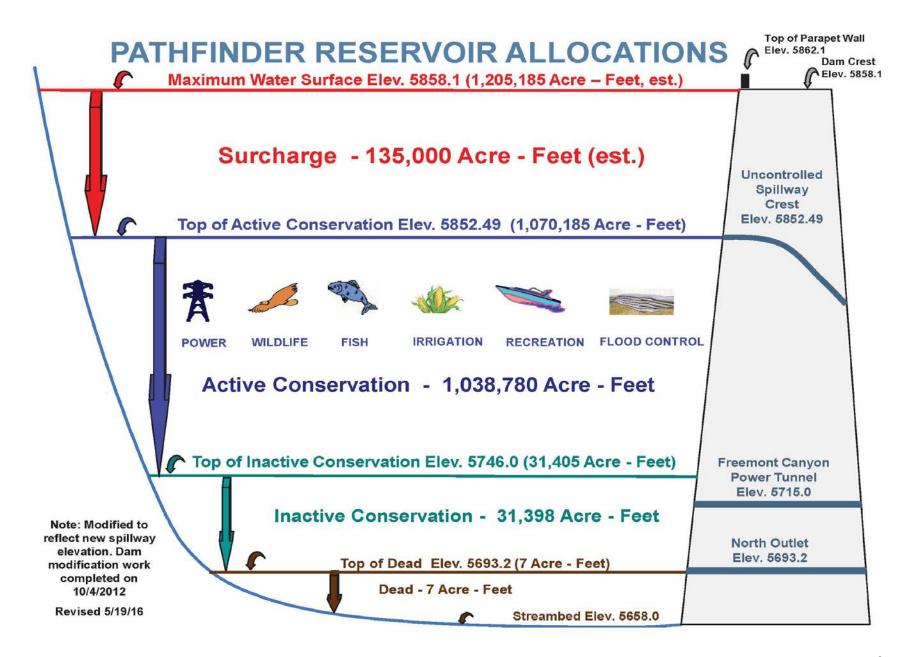
<u>Joint Use Capacity:</u> The reservoir capacity assigned to flood control purposes during certain periods of the year and to conservation purposes during other periods of the year.

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.

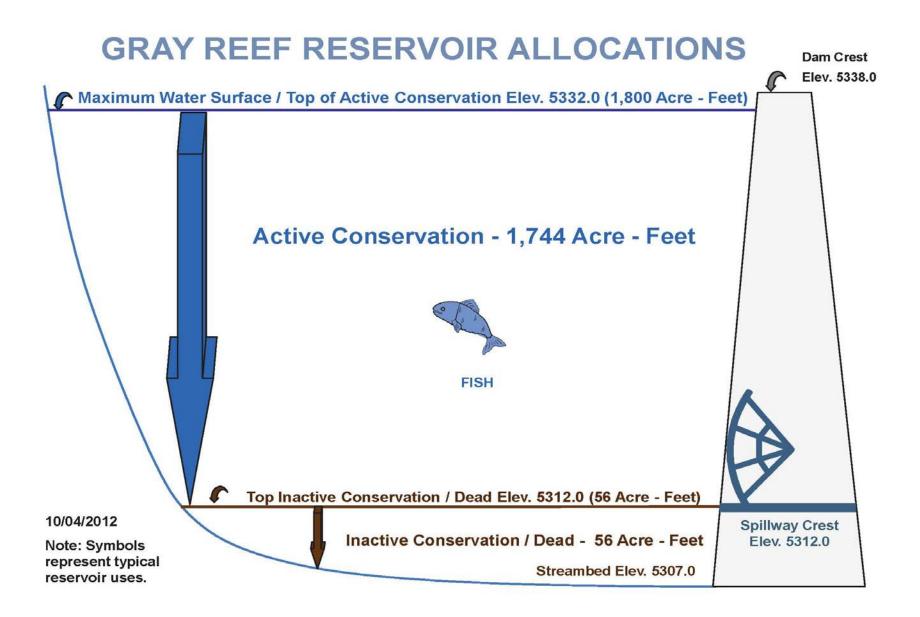
RESERVOIR ALLOCATION SHEETS

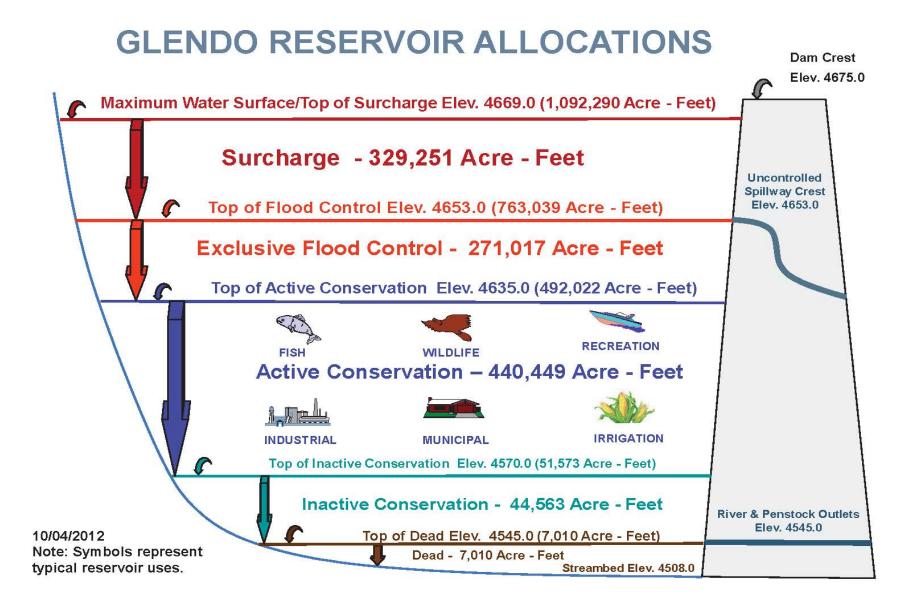


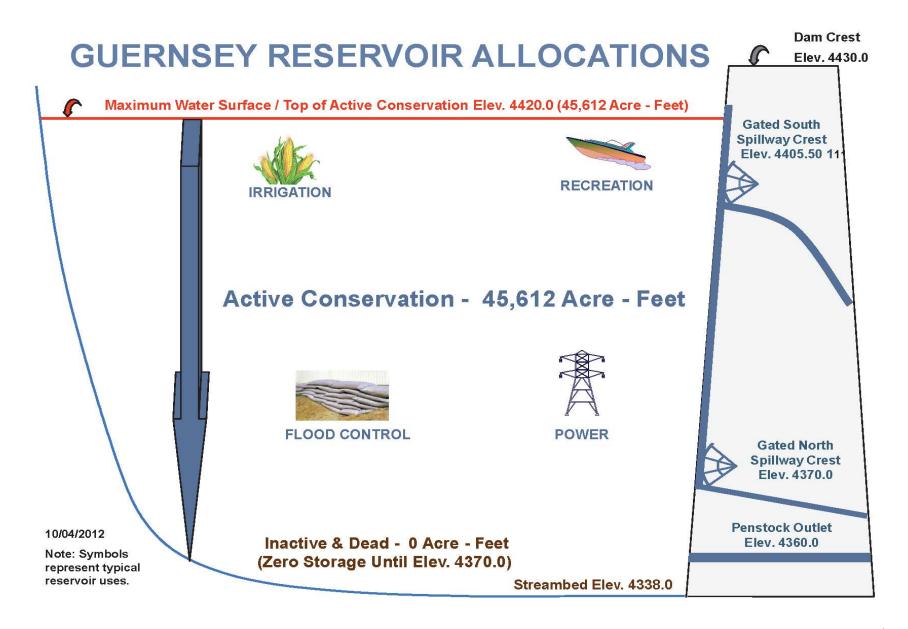
KORTES RESERVOIR ALLOCATIONS Dam Crest Elev. 6169.0 **Maximum Water Surface Elev. 6165.7** Spillway Crest Top of Active Conservation Elev. 6142.0 (4,739 Acre - Feet) Elev. 6142.0 POWER FISH **Active Conservation - 3,073 Acre - Feet** Top Inactive Conservation Elev. 6092.0 (1,666 Acre - Feet) Inactive Conservation - 1,515 Acre - Feet 10/04/2012 **Penstock Outlet** Note: Symbols represent Elev. 6035.5 Top of Dead Elev. 6035.5 (151 Acre - Feet) typical reservoir uses. Dead - 151 Acre - Feet Streambed Elev. 5942.0



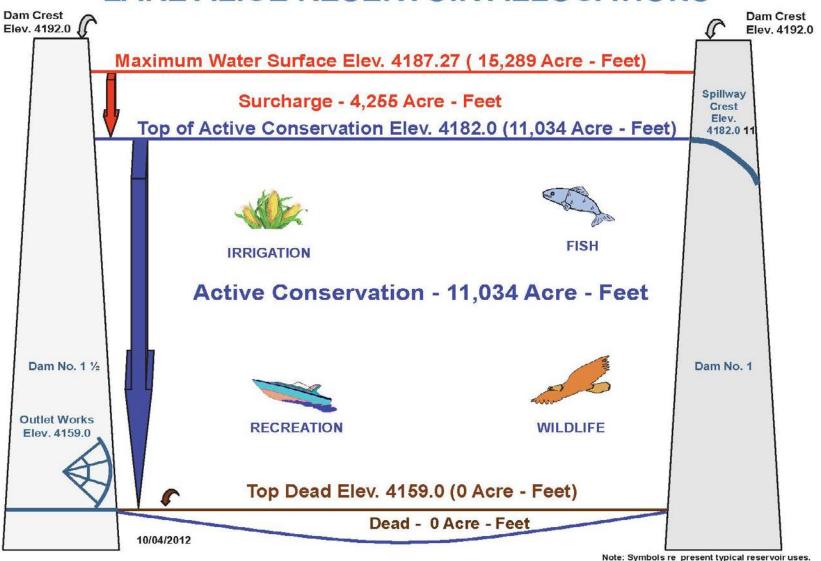
ALCOVA RESERVOIR ALLOCATIONS Dam Crest Elev. 5510.0 Max Water Surface/Top of Active Conservation Elev. 5500.0 (184,405 Acre - Feet) Active Conservation - 30,603 Acre - Feet RECREATION **IRRIGATION** FISH POWER Casper Canal Elev. 5487.0 Top of Inactive Conservation Elev. 5487.0 (153,802 Acre - Feet) **Inactive Conservation 153,711 Acre - Feet Gated Spillway** Crest Elev. 5460.0 Penstock Outlet Top Dead Elev. 5334.08 (91 Acre - Feet) Elev. 5334.08 10/03/2012 Dead - 91 Acre - Feet Note: Symbols represent typical reservoir uses. Streambed Elev. 5325.0



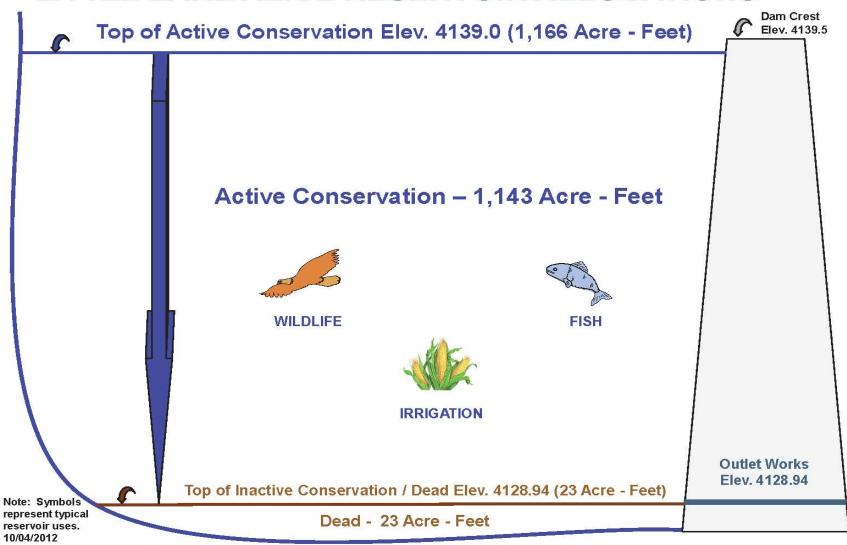




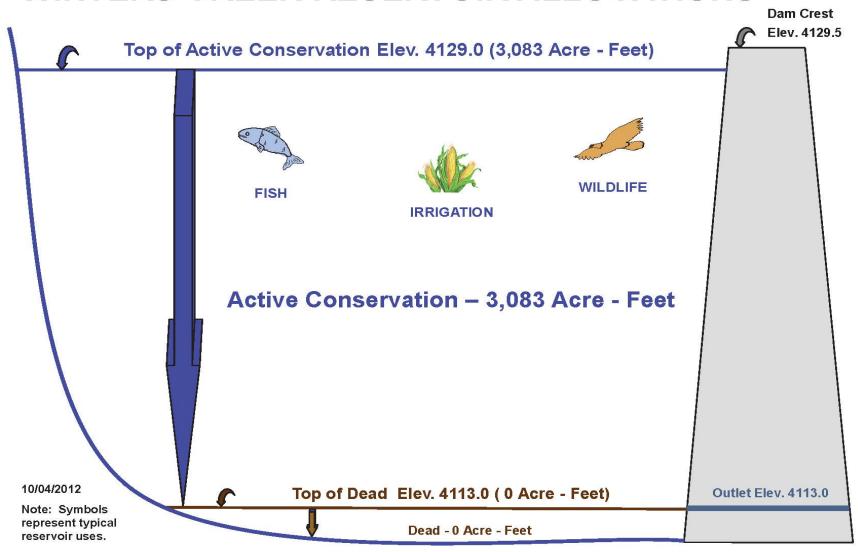
LAKE ALICE RESERVOIR ALLOCATIONS



LITTLE LAKE ALICE RESERVOIR ALLOCATIONS



WINTERS CREEK RESERVOIR ALLOCATIONS



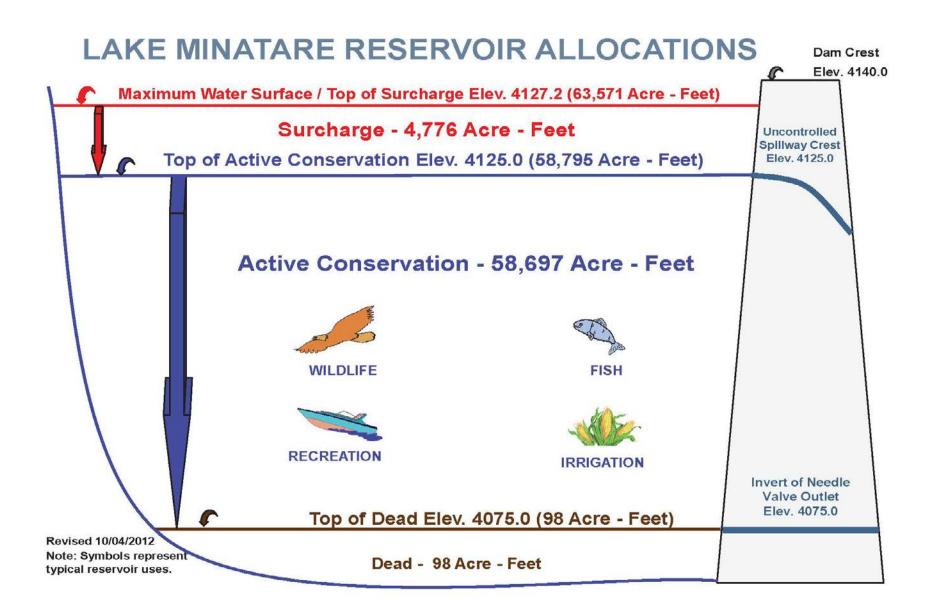


Figure 21 North Platte River Basin Map

