

Based on Probable April-July Inflow Estimates: Seminole 748.7KAF / Sweetwater 52.3KAF / Alcova-Glendo 109.8KAF

NORTH PLATTE RIVER OPERATING PLAN  
Year Beginning Jan 2009

HYDROLOGY OPERATIONS

Seminole Reservoir Operations		Initial Content 511.8 Kaf						Operating Limits: Max 1017.3 Kaf, 6357.00 Ft. Min 31.7 Kaf, 6239.02 Ft.					
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Total Inflow	kaf	21.5	22.3	50.8	113.7	232.5	311.0	91.5	33.6	18.8	29.1	27.7	23.4
Total Inflow	cfs	350.	402.	826.	1911.	3781.	5227.	1488.	546.	316.	473.	466.	381.
Turbine Release	kaf	32.6	29.3	32.5	101.0	143.0	131.7	136.1	136.0	47.4	32.5	31.4	32.5
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	29.3	32.5	101.0	143.0	131.7	136.1	136.0	47.4	32.5	31.4	32.5
Total Release	cfs	530.	528.	529.	1697.	2326.	2213.	2213.	2212.	797.	529.	528.	529.
Evaporation	kaf	1.0	1.0	2.1	3.9	4.0	7.6	8.9	7.0	4.7	3.6	1.8	1.0
End-month content	kaf	500.2	493.0	513.7#	523.0*	604.0*	772.2	718.8	610.0*	577.0*	570.3	565.1	555.4
End-month elevation	ft	6323.8	6323.2	6325.0	6325.8	6332.2	6343.6	6340.2	6332.6	6330.1	6329.6	6329.2	6328.4
Kortes Reservoir Operations		Initial Content 4.7 Kaf						Operating Limits: Max 4.8 Kaf, 6142.73 Ft. Min 1.7 Kaf, 6092.73 Ft.					
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Total Inflow	kaf	32.6	29.3	32.5	101.0	143.0	131.7	136.1	136.0	47.4	32.5	31.4	32.5
Total Inflow	cfs	530.	528.	529.	1697.	2326.	2213.	2213.	2212.	797.	529.	528.	529.
Turbine Release	kaf	32.5	29.3	32.5	101.0	143.0	131.7	136.1	136.0	47.4	32.5	31.4	32.5
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	32.5	29.3	32.5	101.0	143.0	131.7	136.1	136.0	47.4	32.5	31.4	32.5
Total Release	cfs	529.	528.	529.	1697.	2326.	2213.	2213.	2212.	797.	529.	528.	529.
Pathfinder Reservoir Operations		Initial Content 388.8 Kaf						Operating Limits: Max 1016.5 Kaf, 5850.10 Ft. Min 31.4 Kaf, 5746.00 Ft.					
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Sweetwater Inflow	kaf	3.2	3.5	4.4	13.0	18.6	15.9	4.8	2.1	1.2	3.1	3.3	3.0
Kortes-Path Gain	kaf	0.3	0.3	5.8	7.5	8.8	5.1	9.3	8.6	4.2	3.1	1.8	1.1
Inflow from Kortes	kaf	32.5	29.3	32.5	101.0	143.0	131.7	136.1	136.0	47.4	32.5	31.4	32.5
Total Inflow	kaf	36.0	33.1	42.7	121.5	170.4	152.7	150.2	146.7	52.8	38.7	36.5	36.6
Total Inflow	cfs	585.	596.	694.	2042.	2771.	2566.	2443.	2386.	887.	629.	613.	595.
Turbine Release	kaf	24.9	23.8	35.6	139.2	139.9	138.7	141.8	133.6	58.8	3.3	25.6	26.3
Jetflow Release	kaf	4.6	4.2	4.6	4.5	4.6	4.5	4.6	4.6	4.5	4.6	4.5	4.6
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	29.5	28.0	40.2	143.7	144.5	143.2	146.4	138.2	63.3	7.9	30.1	30.9
Total Release	cfs	480.	504.	654.	2415.	2350.	2407.	2381.	2248.	1064.	128.	506.	503.
Evaporation	kaf	0.8	0.9	1.8	3.2	3.9	6.0	6.7	6.0	4.5	2.9	1.6	0.9
End-month content	kaf	394.5	398.7	399.4	374.0	396.0	399.5	396.6	399.1	384.1	412.0	416.8	421.6
End-month elevation	ft	5810.7	5811.2	5811.2	5808.7	5810.9	5811.2	5811.0	5811.2	5809.7	5812.4	5812.9	5813.3
Alcova Reservoir Operations		Initial Content 156.8 Kaf						Operating Limits: Max 184.4 Kaf, 5500.00 Ft. Min 145.3 Kaf, 5483.12 Ft.					
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Total Inflow	kaf	29.5	28.0	40.2	143.7	144.5	143.2	146.4	138.2	63.3	7.9	30.1	30.9
Total Inflow	cfs	480.	504.	654.	2415.	2350.	2407.	2381.	2248.	1064.	128.	506.	503.
Turbine Release	kaf	30.2	27.8	39.8	119.4	133.5	129.8	127.8	127.8	55.2	30.7	29.8	30.7
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	kaf	0.0	0.0	0.0	0.0	10.0	12.0	17.0	9.0	7.0	0.0	0.0	0.0
Total Release	kaf	30.2	27.8	39.8	119.4	143.5	141.8	144.8	136.8	62.2	30.7	29.8	30.7
Total Release	cfs	491.	501.	647.	2007.	2334.	2383.	2355.	2225.	1045.	499.	501.	499.
Evaporation	kaf	0.2	0.2	0.4	0.8	1.0	1.4	1.6	1.4	1.1	0.7	0.3	0.2
End-month content	kaf	155.9*	155.9*	155.9*	179.4*	179.4*	179.4*	179.4*	179.4*	179.4*	155.9*	155.9*	155.9*
End-month elevation	ft	5487.9	5487.9	5487.9	5498.0	5498.0	5498.0	5498.0	5498.0	5498.0	5487.9	5487.9	5487.9

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NORTH PLATTE RIVER OPERATING PLAN  
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Gray Reef Reservoir Operations		Initial Content						1.6 Kaf			Operating Limits: Max		1.1 Kaf, 5327.42 Ft.	
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		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
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Total Inflow	kaf	30.2	27.8	39.8	119.4	133.5	129.8	127.8	127.8	55.2	30.7	29.8	30.7	
Total Inflow	cfs	491.	501.	647.	2007.	2171.	2181.	2078.	2078.	928.	499.	501.	499.	
Total Release	kaf	30.7	27.8	39.8	119.4	133.5	129.7	127.7	127.7	55.1	30.7	29.8	30.7	
Total Release	cfs	499.	501.	647.	2007.	2171.	2180.	2077.	2077.	926.	499.	501.	499.	
Glendo Reservoir Operations		Initial Content						224.0 Kaf			Operating Limits: Max		789.4 Kaf, 4653.00 Ft.	
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		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
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Alcova-Glendo Gain	kaf	8.2	15.6	17.5	43.5	58.2	9.7	-1.6	-2.3	8.4	13.2	11.5	7.7	
Infl from Gray Reef	kaf	30.7	27.8	39.8	119.4	133.5	129.7	127.7	127.7	55.1	30.7	29.8	30.7	
Total Inflow	kaf	38.9	43.4	57.3	162.9	191.7	139.4	126.1	125.4	63.5	43.9	41.3	38.4	
Total Inflow	cfs	633.	781.	932.	2738.	3118.	2343.	2051.	2039.	1067.	714.	694.	625.	
Turbine Release	kaf	0.0	0.0	0.0	20.3	164.5	168.3	227.5	219.4	40.1	0.0	0.0	0.0	
Low Flow Release	kaf	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	
Spillway Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Irrigation Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	76.0	91.3	0.0	0.0	0.0	0.0	
Total Release	kaf	1.5	1.5	1.5	21.8	166.0	169.8	305.0	312.2	41.6	1.5	1.5	1.5	
Total Release	cfs	24.	27.	24.	366.	2700.	2854.	4960.	5077.	699.	24.	25.	24.	
Evaporation	kaf	0.7	0.8	1.6	3.1	5.1	6.9	6.4	3.8	1.9	1.1	0.7	0.7	
End-month content	kaf	260.7	301.8#	356.0*	494.0*	514.0*	477.0*	290.4	100.0*	120.0*	161.3#	200.4	236.6	
End-month elevation	ft	4608.3	4613.5	4619.7	4633.1	4634.7	4631.6	4612.1	4580.3	4585.0	4593.2	4599.7	4605.0	
Guernsey Reservoir Operations		Initial Content						13.4 Kaf			Operating Limits: Max		45.6 Kaf, 4419.99 Ft.	
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		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
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Glendo-Guerns Gain	kaf	1.4	1.0	0.6	5.0	7.9	3.2	2.1	1.7	5.1	3.4	2.1	1.9	
Inflow from Glendo	kaf	1.5	1.5	1.5	21.8	166.0	169.8	305.0	312.2	41.6	1.5	1.5	1.5	
Total Inflow	kaf	2.9	2.5	2.1	26.8	173.9	173.0	307.1	313.9	46.7	4.9	3.6	3.4	
Total Inflow	cfs	47.	45.	34.	450.	2828.	2907.	4995.	5105.	785.	80.	60.	55.	
Turbine Release	kaf	0.0	0.0	0.0	20.1	53.8	51.8	53.6	53.6	55.4	0.0	0.0	0.0	
Seepage	kaf	0.4	0.3	0.3	0.4	1.2	3.0	3.1	2.5	0.3	0.3	0.2	0.3	
Spillway Release	kaf	0.0	0.0	0.0	0.0	115.2	117.2	249.3	256.9	14.3	0.0	0.0	0.0	
Total Release	kaf	0.4	0.3	0.3	20.5	170.2	172.0	306.0	313.0	70.0	0.3	0.2	0.3	
Total Release	cfs	7.	5.	5.	345.	2768.	2891.	4977.	5090.	1176.	5.	3.	5.	
Evaporation	kaf	0.2	0.2	0.3	0.5	0.7	1.0	1.1	0.9	0.7	0.2	0.2	0.2	
End-month content	kaf	15.7	17.7#	19.2#	25.0*	28.0*	28.0*	28.0*	28.0*	4.0*	8.4#	11.6	14.5	
End-month elevation	ft	4404.8	4406.1	4407.1	4410.4	4411.9	4411.9	4411.9	4411.9	4392.8	4398.7	4401.7	4403.9	



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NORTH PLATTE RIVER OPERATING PLAN  
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City of Cheyenne

Initial Ownership 5.3 Kaf,

		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Inflow	kaf	0.5	0.8	4.5	0.5	0.5	1.0	0.5	0.6	0.3	0.3	0.3	0.4
Evaporation	kaf	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.0	0.0	0.0
Release	kaf	0.0	0.0	0.0	0.0	5.0	4.5	0.4	0.0	0.0	0.0	0.0	0.0
Ownership	kaf	5.8	6.5	10.9	11.3	6.7	3.1	3.2	3.7	3.9	4.2	4.5	4.9

Pacificorp

Initial Ownership 2.0 Kaf,

		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Inflow	kaf	0.0	0.0	0.0	0.0	0.4	0.3	0.2	0.2	0.0	0.0	0.0	0.0
Evaporation	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
Release	kaf	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ownership	kaf	2.0	2.0	2.0	2.0	1.4	1.7	1.8	2.0	2.0	2.0	2.0	2.0

Other

Initial Ownership 1.5 Kaf,

		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
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	1.5	0.0	0.0	0.0	0.0	0.0
Ownership	kaf	1.5	1.5	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0

IRRIGATION DELIVERY

		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Kendrick (Casper Canal)</b>													
Requested	kaf	0.0	0.0	0.0	0.0	10.0	12.0	17.0	9.0	7.0	0.0	0.0	0.0
Delivered	kaf	0.0	0.0	0.0	0.0	10.0	12.0	17.0	9.0	7.0	0.0	0.0	0.0
<b>Kendrick (River)</b>													
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
<b>Guernsey Deliveries</b>													
North Platte Req	kaf	0.0	0.0	0.0	0.0	145.0	170.0	300.0	305.0	64.5	0.0	0.0	0.0
Glendo Req	kaf	0.0	0.0	0.0	0.0	0.0	2.0	6.0	8.0	5.5	0.0	0.0	0.0
Inland Lakes Req	kaf	0.0	0.0	0.0	20.5	25.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Requirement	kaf	0.0	0.0	0.0	20.5	170.2	172.0	306.0	313.0	70.0	0.0	0.0	0.0
Seepage	kaf	0.4	0.3	0.3	0.4	1.2	3.0	3.1	2.5	0.3	0.3	0.2	0.3
Actual Release	kaf	0.4	0.3	0.3	20.5	170.2	172.0	306.0	313.0	70.0	0.3	0.2	0.3

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NORTH PLATTE RIVER OPERATING PLAN  
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## POWER GENERATION

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Seminole Power Plant		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
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Turbine Release	kaf	32.6	29.3	32.5	101.0	143.0	131.7	136.1	136.0	47.4	32.5	31.4	32.5
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	29.875	26.822	29.824	29.124	30.934	32.189	33.472	32.816	30.483	31.132	30.021	30.880
Actual generation	gwh	5.094	4.551	5.070	15.857	22.884	22.126	23.302	22.712	7.682	5.234	5.038	5.200
Percent max generation		17.	17.	17.	54.	74.	69.	70.	69.	25.	17.	17.	17.
Average kwh/af		156.	155.	156.	157.	160.	168.	171.	167.	162.	161.	160.	160.
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Kortes Power Plant		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
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Turbine Release	kaf	32.5	29.3	32.5	101.0	143.0	131.7	136.1	136.0	47.4	32.5	31.4	32.5
Bypass	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Maximum generation	gwh	28.346	24.940	27.606	24.837	27.606	26.712	27.606	27.606	26.712	27.606	26.712	27.606
Actual generation	gwh	5.590	5.040	5.590	17.372	24.596	22.652	23.409	23.392	8.153	5.590	5.401	5.590
Percent max generation		20.	20.	20.	70.	89.	85.	85.	85.	31.	20.	20.	20.
Average kwh/af		172.	172.	172.	172.	172.	172.	172.	172.	172.	172.	172.	172.
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Fremont Canyon		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
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Turbine Release	kaf	24.9	23.8	35.6	139.2	139.9	138.7	141.8	133.6	58.8	3.3	25.6	26.3
Bypass	kaf	4.6	4.2	4.6	4.5	4.6	4.5	4.6	4.6	4.5	4.6	4.5	4.6
Maximum generation	gwh	42.669	38.592	42.769	41.217	42.579	41.361	42.756	42.753	41.281	42.756	41.579	43.042
Actual generation	gwh	6.283	6.015	9.004	35.069	35.227	35.066	35.853	33.778	14.837	0.834	6.506	6.694
Percent max generation		15.	16.	21.	85.	83.	85.	84.	79.	36.	2.	16.	16.
Average kwh/af		252.	253.	253.	252.	252.	253.	253.	253.	252.	253.	254.	255.
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Alcova Power Plant		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
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Turbine Release	kaf	30.2	27.8	39.8	119.4	133.5	129.8	127.8	127.8	55.2	30.7	29.8	30.7
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	27.419	24.820	27.472	26.275	27.552	26.656	27.552	27.552	26.656	27.158	26.588	27.472
Actual generation	gwh	4.110	3.781	5.413	16.477	18.690	18.172	17.892	17.892	7.728	4.237	4.053	4.175
Percent max generation		15.	15.	20.	63.	68.	68.	65.	65.	29.	16.	15.	15.
Average kwh/af		136.	136.	136.	138.	140.	140.	140.	140.	140.	138.	136.	136.
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Glendo Power Plant		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
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Turbine Release	kaf	0.0	0.0	0.0	20.3	164.5	168.3	227.5	219.4	40.1	0.0	0.0	0.0
Bypass	kaf	1.5	1.5	1.5	1.5	1.5	1.5	77.5	92.8	1.5	1.5	1.5	1.5
Maximum generation	gwh	20.061	19.182	22.708	24.598	27.763	26.615	24.234	18.088	12.720	14.913	16.672	19.335
Actual generation	gwh	0.000	0.000	0.000	2.227	19.053	19.383	24.234	18.088	2.559	0.000	0.000	0.000
Percent max generation		0.	0.	0.	9.	69.	73.	100.	100.	20.	0.	0.	0.
Average kwh/af		0.	0.	0.	110.	116.	115.	107.	82.	64.	0.	0.	0.
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Guernsey Power Plant		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
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Turbine Release	kaf	0.0	0.0	0.0	20.1	53.8	51.8	53.6	53.6	55.4	0.0	0.0	0.0
Bypass	kaf	0.4	0.3	0.3	0.4	116.4	120.2	252.4	259.4	14.6	0.3	0.2	0.3
Maximum generation	gwh	3.500	3.229	3.629	3.578	3.761	3.667	3.795	3.795	3.435	3.102	3.226	3.449
Actual generation	gwh	0.000	0.000	0.000	1.352	3.761	3.667	3.795	3.795	3.435	0.000	0.000	0.000
Percent max generation		0.	0.	0.	38.	100.	100.	100.	100.	100.	0.	0.	0.
Average kwh/af		0.	0.	0.	67.	70.	71.	71.	71.	62.	0.	0.	0.