

RECLAMATION

Managing Water in the West

October 8, 2008

Dear Customer:

Attached are the monthly water supply outlook and projected reservoir and river operating plans as prepared on October 8, 2008. Reclamation will continue to closely monitor conditions. We hope you find the information useful. If you have any questions or concerns, please call me at (406) 247-7334.

Chuck Heinje
Reservoir and River Operations



U. S. Department of the Interior
Bureau of Reclamation
Montana Area Office
River and Reservoir Operations

SUN RIVER PROJECT OPERATIONS
 Water Supply Forecasts and Reservoir Operations
 October 1, 2008

Elevations & Storages:

<u>Reservoir</u>	<u>Storage</u>	<u>Percent of Normal</u>	<u>Percent of Full</u>
Gibson	21,887	78.3	22.7
Willow Creek	27,747	158.9	87.2
Pishkun	36,808	111.9	78.8

Actual Inflows to Gibson Reservoir (1,000 Acre-Feet):

<u>Month</u>	<u>Inflow</u>	<u>Percent of Normal</u>
October	9.8	52
November	9.0	53
December	8.9	57
January	7.9	57
February	6.0	49
March	8.2	55
April	16.5	42
May	203.8	120
June	220.1	120
July	90.3	137
August	26.7	101
September	19.8	107

October Forecast of October Inflow (1,000 Acre-Feet):

<u>Month</u>	<u>Inflow</u>	<u>Percent of Normal</u>
Reclamation	16.7	93

Mountain Snowpack Conditions:

Not Available Until Next Season

Forecast using Most Probable Inflows

UPPER SUN RIVER MONTHLY OPERATIONS

Gibson Reservoir		Initial Cont Elev 4645.42 ft			21.9 kaf			Maximum Cont Elev 4724.02 ft			96.5 kaf			Minimum Cont Elev 4608.95 ft			5.0 kaf	
	2008	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total				
Monthly Inflow	kaf	16.7	15.3	13.5	12.4	11.0	13.7	37.3	151.5	143.9	55.0	27.0	18.0	515.3				
Spillway Rels	cfs	0	0	0	0	0	0	0	0	0	0	0	0					
Total Release	kaf	8.5	8.3	8.7	8.8	7.9	8.7	35.9	121.5	132.4	89.6	65.6	30.5	526.4				
Total Release	cfs	138	139	141	143	142	141	603	1976	2225	1457	1067	513					
End-Month Content	kaf	30.1	37.1	41.9	45.5	48.6	53.6	55.0	85.0	96.5	61.9	23.3	10.8					
End-Month Elevation	ft	4658.48	4668.20	4674.18	4678.33	4681.71	4686.92	4688.34	4715.01	4724.02	4695.08	4647.80	4624.13					
End-Month Area	acre	679.2	765.9	842.0	895.3	934.0	983.6	995.4	1255.1	1296.2	1049.6	595.1	449.6					
Net Change Content	kaf	8.2	7.0	4.8	3.6	3.1	5.0	1.4	30.0	11.5	-34.6	-38.6	-12.5	-11.1				
Sun River Div Dam		2008	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total			
Gain Below Gibson	cfs	16	15	13	11	13	13	37	148	145	49	21	17					
Rels to WFC	cfs	0	0	0	0	0	0	76	7	0	0	0	76					
Rels to PSC	cfs	0	0	0	0	0	0	77	859	1333	1249	803	289					
Total Diversion	kaf	0.0	0.0	0.0	0.0	0.0	0.0	9.1	53.2	79.3	76.8	49.4	21.7	289.5				
Total Diversion	cfs	0	0	0	0	0	0	153	865	1333	1249	803	365					
Flow Over Div Dam	kaf	9.5	9.2	9.5	9.5	8.6	9.5	29.0	77.4	61.7	15.8	17.5	9.8	267.0				
Flow Over Div Dam	cfs	155	155	155	155	155	155	487	1259	1037	257	285	165					
Min River Rels	kaf	9.5	9.2	9.5	9.5	8.6	9.5	8.9	9.2	8.9	6.8	6.8	6.5	102.9				
Min River Rels	cfs	155	155	155	155	155	155	150	150	150	110	110	110					
Willow Crk Operations		2008	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total			
			Initial Cont Elev 4139.10 ft			27.7 kaf			Maximum Cont Elev 4142.04 ft			31.9 kaf			Minimum Cont Elev 4093.42 ft		0.1 kaf	
Native Inflow	kaf	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2			
Total Inflow	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.1	3.9	0.3	0.0	0.0	0.0	3.8	8.1			
WCR Dam Rels	kaf	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	6.9	7.0	0.0	14.0				
End-Month Content	kaf	27.7	27.7	27.7	27.7	27.7	27.7	31.6	31.9	31.9	25.0	18.0	21.8					
End-Month Elevation	ft	4139.10	4139.10	4139.10	4139.10	4139.10	4139.10	4141.83	4142.04	4142.04	4137.13	4131.58	4134.72					
Net Change Content	kaf	0.0	0.0	0.0	0.0	0.0	0.0	3.9	0.3	0.0	-6.9	-7.0	3.8	-5.9				
Pishkun Operations		2008	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total			
			Initial Cont Elev 4363.13 ft			36.8 kaf			Maximum Cont Elev 4370.00 ft			46.7 kaf			Minimum Cont Elev 4341.99 ft		16.0 kaf	
Rels to PSC	kaf	0.0	0.0	0.0	0.0	0.0	0.0	4.6	52.8	79.3	76.8	49.4	17.2	280.1				
Total Inflow	kaf	0.0	0.0	0.0	0.0	0.0	0.0	3.9	42.2	65.0	65.3	42.0	14.6	233.0				
PSH Dam Rels	kaf	0.2	0.0	0.0	0.0	0.0	0.0	0.5	35.5	65.0	79.0	39.0	14.0	233.2				
End-Month Content	kaf	36.6	36.6	36.6	36.6	36.6	36.6	40.0	46.7	46.7	33.0	36.0	36.6					
End-Month Elevation	ft	4362.99	4362.99	4362.99	4362.99	4362.99	4362.99	4365.44	4370.00	4370.00	4360.21	4362.54	4362.99					
Net Change Content	kaf	-0.2	0.0	0.0	0.0	0.0	0.0	3.4	6.7	0.0	-13.7	3.0	0.6	-0.2				
Greenfields Irrig		2008	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total			
GID Demand	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.5	35.5	65.0	79.0	39.0	14.0	233.0				
GID Delivery	kaf	0.2	0.0	0.0	0.0	0.0	0.0	0.5	35.5	65.0	79.0	39.0	14.0	233.2				
River Blw Div Dam		2008	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total			
Flow Over Div Dam	cfs	155	155	155	155	155	155	487	1259	1037	257	285	165					
PSC Return Flow	cfs	0	0	0	0	0	0	10	138	192	159	109	44					
WCR Dam Rels	cfs	0	0	0	0	0	2	0	0	0	112	114	0					
Sr Demand Above	kaf	1.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	12.9	13.3	13.3	2.0	50.2				
Sr Demand Below	kaf	1.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	5.4	5.5	5.5	2.0	24.9				
Flow @ Ft. Shaw Div	cfs	137	163	168	169	171	181	546	1295	1029	229	213	151					
Ft Shaw Demand	kaf	1.0	0.0	0.0	0.0	0.0	0.0	1.0	8.5	8.5	11.0	10.0	6.0	46.0				
Ft Shaw Tot Deliv	kaf	1.0	0.0	0.0	0.0	0.0	0.0	1.0	8.5	8.5	11.0	10.0	6.0	46.0				
Flow blw Ft. Shaw	cfs	120	163	168	169	171	181	529	1156	886	50	50	50					

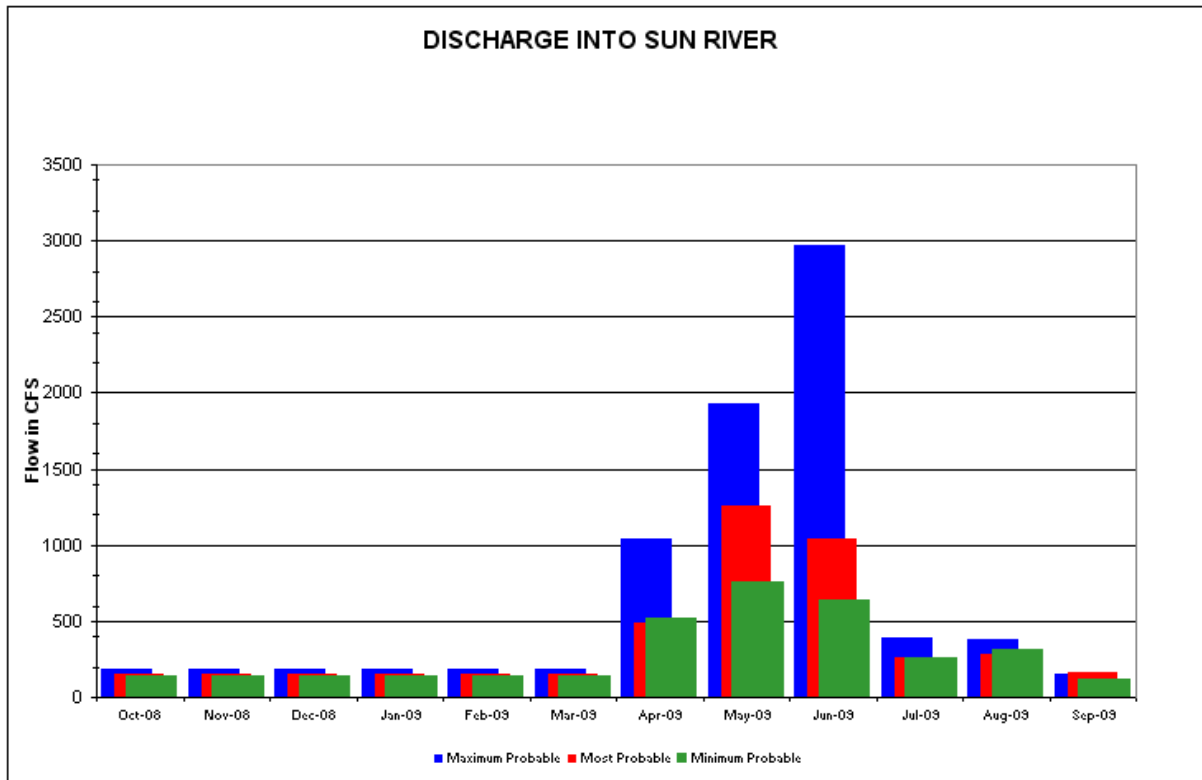
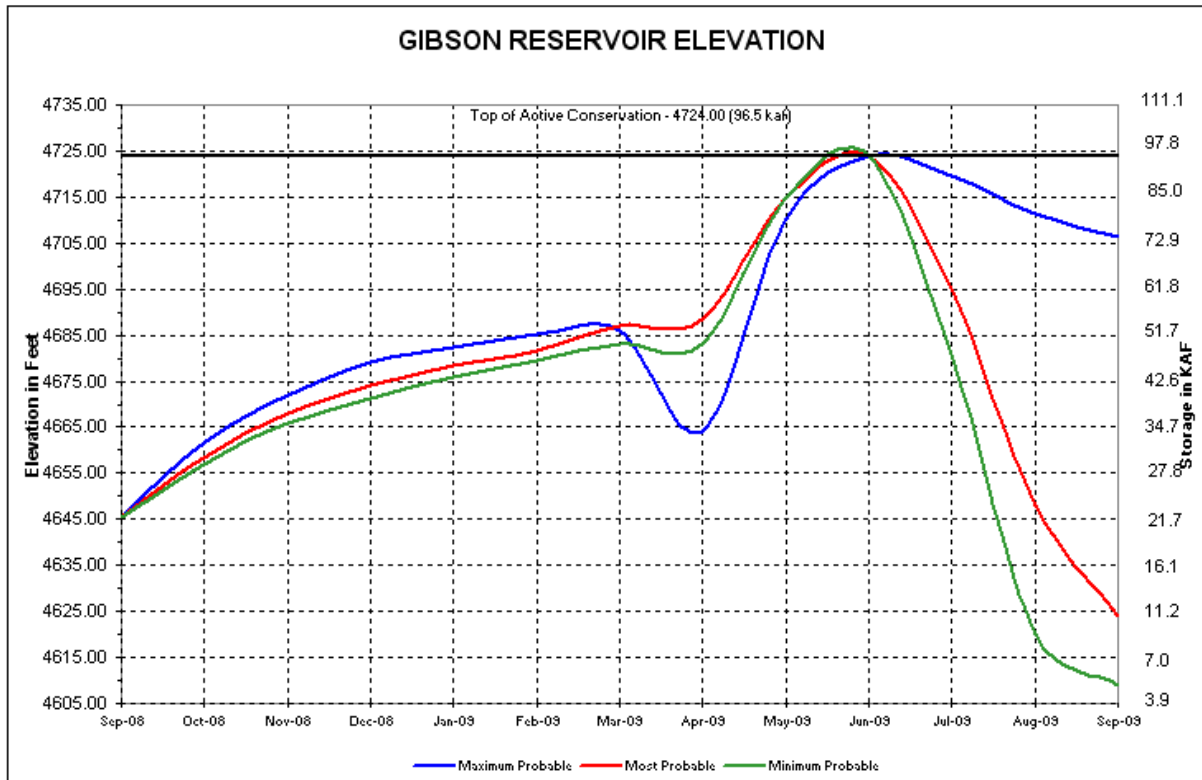
UPPER SUN RIVER MONTHLY OPERATIONS

Gibson Reservoir		Initial Cont Elev				21.9 kaf		Maximum Cont Elev				96.5 kaf		Minimum Cont Elev				5.0 kaf	
		2008	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total				
Monthly Inflow	kaf		14.4	13.4	11.7	11.2	9.8	12.2	33.4	130.3	122.6	43.8	21.0	14.4	438.2				
Spillway Rels	cfs		0	0	0	0	0	0	0	0	0	0	0	0					
Total Release	kaf		7.3	7.0	7.5	7.4	6.7	8.8	33.3	95.3	111.1	92.5	59.8	18.4	455.1				
Total Release	cfs		119	118	122	120	121	143	560	1550	1867	1504	973	309					
End-Month Content	kaf		29.0	35.4	39.6	43.4	46.5	49.9	50.0	85.0	96.5	47.8	9.0	5.0					
End-Month Elevation	ft	4656.84	4665.94	4671.39	4675.94	4679.44	4683.09	4683.09	4724.02	4715.01	4724.02	4680.85	4619.97	4608.95					
End-Month Area	acre	666.0	743.0	803.4	865.1	909.3	948.1	949.2	1255.1	1296.2	925.2	415.4	297.4						
Net Change Content	kaf		7.1	6.4	4.2	3.8	3.1	3.4	0.1	35.0	11.5	-48.7	-38.8	-4.0	-16.9				
Sun River Div Dam		2008	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total				
Gain Below Gibson	cfs		11	12	8	10	9	10	30	98	91	59	24	20					
Rels to WFC	cfs		0	0	0	0	0	23	18	36	0	0	0	0					
Rels to PSC	cfs		0	0	0	0	0	0	67	859	1329	1309	690	220					
Total Diversion	kaf		0.0	0.0	0.0	0.0	0.0	1.4	5.1	55.0	79.1	80.5	42.4	13.1	276.6				
Total Diversion	cfs		0	0	0	0	0	23	86	894	1329	1309	690	220					
Flow Over Div Dam	kaf		8.0	7.7	8.0	8.0	7.2	8.0	30.0	46.3	37.4	15.6	18.9	6.5	201.6				
Flow Over Div Dam	cfs		130	129	130	130	130	130	504	753	629	254	307	109					
Min River Rels	kaf		8.0	7.7	8.0	8.0	7.2	8.0	6.5	6.8	6.5	6.8	6.8	6.5	86.8				
Min River Rels	cfs		130	130	130	130	130	130	110	110	110	110	110	110					
Willow Crk Operations		2008	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total				
					27.7 kaf				31.9 kaf					0.1 kaf					
					4139.10 ft				4142.04 ft					4093.42 ft					
Native Inflow	kaf		0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.2				
Total Inflow	kaf		0.0	0.0	0.0	0.0	0.0	1.3	1.0	1.9	0.0	0.0	0.0	0.0	4.2				
WCR Dam Rels	kaf		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	9.0	6.9	22.8				
End-Month Content	kaf		27.7	27.7	27.7	27.7	27.7	29.0	30.0	31.9	31.9	25.0	16.0	9.1					
End-Month Elevation	ft	4139.10	4139.10	4139.10	4139.10	4139.10	4140.02	4140.72	4142.04	4142.04	4137.13	4129.74	4122.06						
Net Change Content	kaf		0.0	0.0	0.0	0.0	0.0	1.3	1.0	1.9	0.0	-6.9	-9.0	-6.9	-18.6				
Pishkun Operations		2008	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total				
					36.8 kaf				46.7 kaf					16.0 kaf					
					4363.13 ft				4370.00 ft					4341.99 ft					
Rels to PSC	kaf		0.0	0.0	0.0	0.0	0.0	0.0	4.0	52.8	79.1	80.5	42.4	13.1	271.9				
Total Inflow	kaf		0.0	0.0	0.0	0.0	0.0	0.0	3.4	42.2	64.9	68.4	36.0	11.1	226.0				
PSH Dam Rels	kaf		0.2	0.0	0.0	0.0	0.0	0.0	0.0	35.5	65.0	80.0	40.0	26.1	246.8				
End-Month Content	kaf		36.6	36.6	36.6	36.6	36.6	36.6	40.0	46.7	46.6	35.0	31.0	16.0					
End-Month Elevation	ft	4362.99	4362.99	4362.99	4362.99	4362.99	4362.99	4362.99	4365.44	4370.00	4369.94	4361.78	4358.55	4341.99					
Net Change Content	kaf		-0.2	0.0	0.0	0.0	0.0	0.0	3.4	6.7	-0.1	-11.6	-4.0	-15.0	-20.8				
Greenfields Irrig		2008	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total				
GID Demand	kaf		0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.5	65.0	80.0	40.0	32.0	252.5				
GID Delivery	kaf		0.2	0.0	0.0	0.0	0.0	0.0	0.0	35.5	65.0	80.0	40.0	26.1	246.8				
River Blw Div Dam		2008	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total				
Flow Over Div Dam	cfs		130	129	130	130	130	130	504	753	629	254	307	109					
PSC Return Flow	cfs		0	0	0	0	0	0	8	138	192	168	94	34					
WCR Dam Rels	cfs		0	0	0	0	0	0	0	0	0	112	146	116					
Sr Demand Above	kaf		1.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	12.9	13.3	13.3	2.0	50.2				
Sr Demand Below	kaf		1.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	5.4	5.5	5.5	2.0	24.9				
Flow @ Ft. Shaw Div	cfs		112	138	143	145	146	155	561	789	620	234	254	202					
Ft Shaw Demand	kaf		2.0	0.0	0.0	0.0	0.0	0.0	0.7	7.1	9.2	11.3	12.5	9.0	51.8				
Ft Shaw Tot Deliv	kaf		2.0	0.0	0.0	0.0	0.0	0.0	0.7	7.1	9.2	11.3	12.5	9.0	51.8				
Flow blw Ft. Shaw	cfs		80	138	143	145	146	155	550	673	466	50	50	50					

UPPER SUN RIVER MONTHLY OPERATIONS

Gibson Reservoir		Initial Cont Elev				21.9 kaf		Maximum Cont Elev				96.5 kaf		Minimum Cont Elev				5.0 kaf		
		2008	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total					
Monthly Inflow	kaf		20.0	17.4	15.7	13.2	11.7	14.7	46.1	202.9	261.6	88.4	60.6	25.7	778.0					
Spillway Rels	cfs		0	0	0	0	0	0	0	0	0	0	0	0						
Total Release	kaf		9.7	9.4	9.8	10.1	9.1	13.9	64.7	157.9	244.1	94.2	70.9	31.7	725.5					
Total Release	cfs		158	158	159	164	164	226	1087	2568	4102	1532	1153	533						
End-Month Content	kaf		32.2	40.2	46.1	49.2	51.8	52.6	34.0	79.0	96.5	90.7	80.4	74.4						
End-Month Elevation	ft	4661.52	4672.13	4678.99	4682.35	4685.08	4685.90	4664.04	4710.16	4724.02	4719.51	4711.30	4706.32							
End-Month Area	acre	704.1	813.7	903.8	940.5	968.2	975.1	725.3	1218.6	1296.2	1277.7	1227.2	1175.1							
Net Change Content	kaf		10.3	8.0	5.9	3.1	2.6	0.8	-18.6	45.0	17.5	-5.8	-10.3	-6.0	52.5					
Sun River Div Dam		2008	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total					
Gain Below Gibson	cfs		23	22	21	16	16	16	50	213	200	102	34	24						
Rels to WFC	cfs		0	0	0	0	0	62	15	0	0	0	0	0						
Rels to PSC	cfs		0	0	0	0	0	0	87	847	1333	1249	803	407						
Total Diversion	kaf		0.0	0.0	0.0	0.0	0.0	3.8	6.1	52.1	79.3	76.8	49.4	24.2	291.7					
Total Diversion	cfs		0	0	0	0	0	62	103	847	1333	1249	803	407						
Flow Over Div Dam	kaf		11.1	10.7	11.1	11.1	10.0	11.1	61.6	118.9	176.7	23.7	23.6	8.9	478.5					
Flow Over Div Dam	cfs		181	180	181	181	180	181	1035	1934	2970	385	384	150						
Min River Rels	kaf		11.1	10.7	11.1	11.1	10.0	11.1	11.3	9.2	8.9	9.2	9.2	8.9	121.8					
Min River Rels	cfs		180	180	180	180	180	180	190	150	150	150	150	150						
Willow Crk Operations			Initial Cont Elev				27.7 kaf		Maximum Cont Elev				31.9 kaf		Minimum Cont Elev				0.1 kaf	
		2008	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total					
Native Inflow	kaf		0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.2					
Total Inflow	kaf		0.0	0.0	0.0	0.0	0.0	3.3	0.9	0.0	0.0	0.0	0.0	0.0	4.2					
WCR Dam Rels	kaf		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	3.3	4.2					
End-Month Content	kaf		27.7	27.7	27.7	27.7	27.7	31.0	31.9	31.9	31.9	31.9	31.0	27.7						
End-Month Elevation	ft	4139.10	4139.10	4139.10	4139.10	4139.10	4139.10	4141.42	4142.04	4142.04	4142.04	4142.04	4141.42	4139.10						
Net Change Content	kaf		0.0	0.0	0.0	0.0	0.0	3.3	0.9	0.0	0.0	0.0	-0.9	-3.3	0.0					
Pishkun Operations			Initial Cont Elev				36.8 kaf		Maximum Cont Elev				46.7 kaf		Minimum Cont Elev				16.0 kaf	
		2008	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total					
Rels to PSC	kaf		0.0	0.0	0.0	0.0	0.0	0.0	5.2	52.1	79.3	76.8	49.4	24.2	287.0					
Total Inflow	kaf		0.0	0.0	0.0	0.0	0.0	0.0	4.4	41.7	65.0	65.3	42.0	20.6	239.0					
PSH Dam Rels	kaf		0.2	0.0	0.0	0.0	0.0	0.0	1.0	35.0	65.0	79.0	39.0	20.0	239.2					
End-Month Content	kaf		36.6	36.6	36.6	36.6	36.6	36.6	40.0	46.7	46.7	33.0	36.0	36.6						
End-Month Elevation	ft	4362.99	4362.99	4362.99	4362.99	4362.99	4362.99	4362.99	4365.44	4370.00	4370.00	4360.21	4362.54	4362.99						
Net Change Content	kaf		-0.2	0.0	0.0	0.0	0.0	0.0	3.4	6.7	0.0	-13.7	3.0	0.6	-0.2					
Greenfields Irrig		2008	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total					
GID Demand	kaf		0.0	0.0	0.0	0.0	0.0	0.0	1.0	35.0	65.0	79.0	39.0	20.0	239.0					
GID Delivery	kaf		0.2	0.0	0.0	0.0	0.0	0.0	1.0	35.0	65.0	79.0	39.0	20.0	239.2					
River Blw Div Dam		2008	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total					
Flow Over Div Dam	cfs		181	180	181	181	180	181	1035	1934	2970	385	384	150						
PSC Return Flow	cfs		0	0	0	0	0	0	10	135	192	159	109	61						
WCR Dam Rels	cfs		0	0	0	0	0	0	0	0	0	0	15	55						
Sr Demand Above	kaf		1.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	12.9	13.3	13.3	2.0	50.2					
Sr Demand Below	kaf		1.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	5.4	5.5	5.5	2.0	24.9					
Flow @ Ft. Shaw Div	cfs		163	188	194	195	196	205	1094	1966	2961	246	213	208						
Ft Shaw Demand	kaf		1.0	0.0	0.0	0.0	0.0	0.0	1.0	10.0	10.0	12.0	10.0	8.0	52.0					
Ft Shaw Tot Deliv	kaf		1.0	0.0	0.0	0.0	0.0	0.0	1.0	10.0	10.0	12.0	10.0	8.0	52.0					
Flow blw Ft. Shaw	cfs		146	188	194	195	196	205	1077	1804	2793	50	50	74						

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WATER YEAR 2009