

# March 1, 2010

## Default Flow Schedule

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### *San Joaquin River Restoration Program*

#### **Transmittal to the Restoration Administrator**

The following pages describe the annual allocation and transmittal of a default flow schedule to the Restoration Administrator for the San Joaquin River Restoration Program consistent with the Draft Restoration Flow Guidelines dated January 20, 2010 and channel capacity constraints. Table 1 shows allocation volumes.

**Table 1 – Allocation Volumes**

<b>Location</b>	<b>SJRRP (af)</b>	<b>Baseline (af)</b>	<b>Total (af)</b>
Gravelly Ford	195,000	3,000	198,000
Estimated Friant Release per Exhibit B	176,000	117,000	293,000

Estimates use annual allocation Method 3.1, an assumed constraint of 1,300 cfs in Reach 2B, and Settlement assumptions for infiltration losses and diversions. Contents of the default flow schedule include:

- Table 2 – Forecast Unimpaired Inflow
- Table 3 – Annual SJRRP Allocation
- Table 4 – Default Flow Schedule at Friant Dam
- Table 5 – Default Flow Schedule at Gravelly Ford
- Figure 1 – Default Flow Schedule at Friant Dam
- Figure 2 – Default Flow Schedule at Gravelly Ford

Reclamation anticipates a recommendation of a flow schedule at Gravelly Ford that uses the entire available volume through December 1<sup>st</sup> and follows the flexible flow provisions negotiated by the Settling Parties. The allocation will be updated on April 1<sup>st</sup> unless otherwise requested by the Restoration Administrator. The daily default flow schedule in electronic format accompanies this transmittal.

San Joaquin River Restoration Program March 1, 2010 Default Flow Schedule

**Table 2 – Forecast Unimpaired Inflow**

<b>Scenario</b>	<b>Forecast 90% (TAF)</b>	<b>Forecast 50% (TAF)</b>	<b>Forecast 10% (TAF)</b>	<b>Forecast Declared (TAF)</b>	<b>Comment</b>
Feb. 01, 2010	990	1,620	2,510	990	Per. Comm. Rufino
Mar. 01, 2010	1,310	1,778	2,180	1,310	Per. Comm. Tony

San Joaquin River Restoration Program March 1, 2010 Default Flow Schedule

**Table 3 – Annual SJRRP Allocation**

<b>Scenario</b>	<b>Forecast</b>	<b>Annual Inflow Basis (TAF)</b>	<i>Inflow Lower Bracket (TAF)</i>	<i>Inflow Upper Bracket (TAF)</i>	<i>Alloc. Lower Bracket (TAF)</i>	<i>Alloc. Upper Bracket (TAF)</i>	<b>Annual Restoration Allocation (TAF)</b>	<b>Restoration Year</b>	<b>Comment</b>
Mar. 01, 2010	10%	2,180	1450	2500	400.3	547.4	502.6	Normal-Wet	
Mar. 01, 2010	50%	1,778	1450	2500	400.3	547.4	446.3	Normal-Wet	
Mar. 01, 2010	90%	1,310	930	1450	330.3	400.3	381.5	Normal-Dry	
Mar. 01, 2010	Declared	1,310	930	1450	330.3	400.3	381.5	Normal-Dry	

San Joaquin River Restoration Program March 1, 2010 Default Flow Schedule

Table 4 – Default Flow Schedule at Friant Dam

Scenario	Remaining Allocation (TAF)	Schedule Start	Schedule End	Step	Alloc. Lower	Alloc. Upper	Friant Default Lower	Friant Default Upper	Friant Default Schedule (cfs)	Number of Days	Friant Default Volume (TAF)	Friant Capacity Limit (cfs)	Comment
Mar. 01, 2010 - Declared	381.5	Mar. 01, 2010	Mar. 15, 2010	Normal-Dry, per Exhibit B	365.26	473.85	500.00	500.00	500.00	15	14.9	1620	
Mar. 01, 2010 - Declared	366.6	Mar. 16, 2010	Mar. 31, 2010	Normal-Dry, per Exhibit B	350.38	458.97	1500.00	1500.00	1500.00	16	47.6	1620	
Mar. 01, 2010 - Declared	319.0	Apr. 01, 2010	Apr. 15, 2010	Normal-Dry, per Exhibit B	302.76	411.37	2500.00	2500.00	2500.00	15	74.4	1620	
Mar. 01, 2010 - Declared	244.6	Apr. 16, 2010	Apr. 30, 2010	Normal-Dry, per Exhibit B	228.40	336.99	350.00	4000.00	894.43	15	26.6	1620	
Mar. 01, 2010 - Declared	218.0	May. 01, 2010	Jun. 30, 2010	Gamma 6	196.03	217.96	260.00	350.00	350.00	61	42.3	1660	
Mar. 01, 2010 - Declared	175.6	Jul. 01, 2010	Aug. 31, 2010	Gamma 6	164.57	175.64	260.00	350.00	350.00	62	43.0	1660	
Mar. 01, 2010 - Declared	132.6	Sep. 01, 2010	Sep. 30, 2010	Gamma 5	126.25	132.59	350.00	350.00	350.00	30	20.8	1660	
Mar. 01, 2010 - Declared	111.8	Oct. 01, 2010	Oct. 31, 2010	Gamma 5	105.42	111.77	350.00	350.00	350.00	31	21.5	1620	
Mar. 01, 2010 - Declared	90.2	Nov. 01, 2010	Nov. 06, 2010	Gamma 5	83.90	90.25	400.00	700.00	700.00	6	8.3	1620	
Mar. 01, 2010 - Declared	81.9	Nov. 07, 2010	Nov. 10, 2010	Gamma 5	79.14	81.92	350.00	700.00	700.00	4	5.6	1620	Requires Manual Update
Mar. 01, 2010 - Declared	76.4	Nov. 11, 2010	Dec. 31, 2010	Wet, per Exhibit B	76.36	76.36	350.00	350.00	350.00	51	35.4	1620	
Mar. 01, 2010 - Declared	41.0	Jan. 01, 2011	Jan. 31, 2011	Gamma 3	30.43	40.96	260.00	350.00	350.00	31	21.5	1620	
Mar. 01, 2010 - Declared	19.4	Feb. 01, 2011	Feb. 28, 2011	Gamma 3	14.44	19.44	260.00	350.00	350.00	28	19.4	1620	

San Joaquin River Restoration Program March 1, 2010 Default Flow Schedule

**Table 5 – Default Flow Schedule at Gravelly Ford**

Scenario	Target Location	Schedule Start	Schedule End	Friant Default Schedule (cfs)	Target Default Lower	Target Default Upper	Target Default Schedule (cfs)	Target Capacity Limit (cfs)	Comment
<b>Mar. 01, 2010 - Declared</b>	Gravelly Ford	Mar. 01, 2010	Mar. 15, 2010	500.00	375	375	375	1466	
<i>Mar. 01, 2010 - Declared</i>	<i>Gravelly Ford</i>	Mar. 16, 2010	Mar. 31, 2010	1500.00	1375	1375	1375	1466	
<i>Mar. 01, 2010 - Declared</i>	<i>Gravelly Ford</i>	Apr. 01, 2010	Apr. 15, 2010	2500.00	2355	2355	2355	1466	
<i>Mar. 01, 2010 - Declared</i>	<i>Gravelly Ford</i>	Apr. 16, 2010	Apr. 30, 2010	894.43	205	3855	749	1466	
<i>Mar. 01, 2010 - Declared</i>	<i>Gravelly Ford</i>	May. 01, 2010	Jun. 30, 2010	350.00	75	165	165	1506	
<i>Mar. 01, 2010 - Declared</i>	<i>Gravelly Ford</i>	Jul. 01, 2010	Aug. 31, 2010	350.00	35	125	125	1506	
<i>Mar. 01, 2010 - Declared</i>	<i>Gravelly Ford</i>	Sep. 01, 2010	Sep. 30, 2010	350.00	145	145	145	1506	
<i>Mar. 01, 2010 - Declared</i>	<i>Gravelly Ford</i>	Oct. 01, 2010	Oct. 31, 2010	350.00	195	195	195	1466	
<i>Mar. 01, 2010 - Declared</i>	<i>Gravelly Ford</i>	Nov. 01, 2010	Nov. 06, 2010	700.00	275	575	575	1466	
<i>Mar. 01, 2010 - Declared</i>	<i>Gravelly Ford</i>	Nov. 07, 2010	Nov. 10, 2010	700.00	235	585	575	1466	Requires Manual Update
<i>Mar. 01, 2010 - Declared</i>	<i>Gravelly Ford</i>	Nov. 11, 2010	Dec. 31, 2010	350.00	235	235	235	1466	
<i>Mar. 01, 2010 - Declared</i>	<i>Gravelly Ford</i>	Jan. 01, 2011	Jan. 31, 2011	350.00	165	255	255	1466	
<i>Mar. 01, 2010 - Declared</i>	<i>Gravelly Ford</i>	Feb. 01, 2011	Feb. 28, 2011	350.00	165	255	255	1466	

San Joaquin River Restoration Program March 1, 2010 Default Flow Schedule

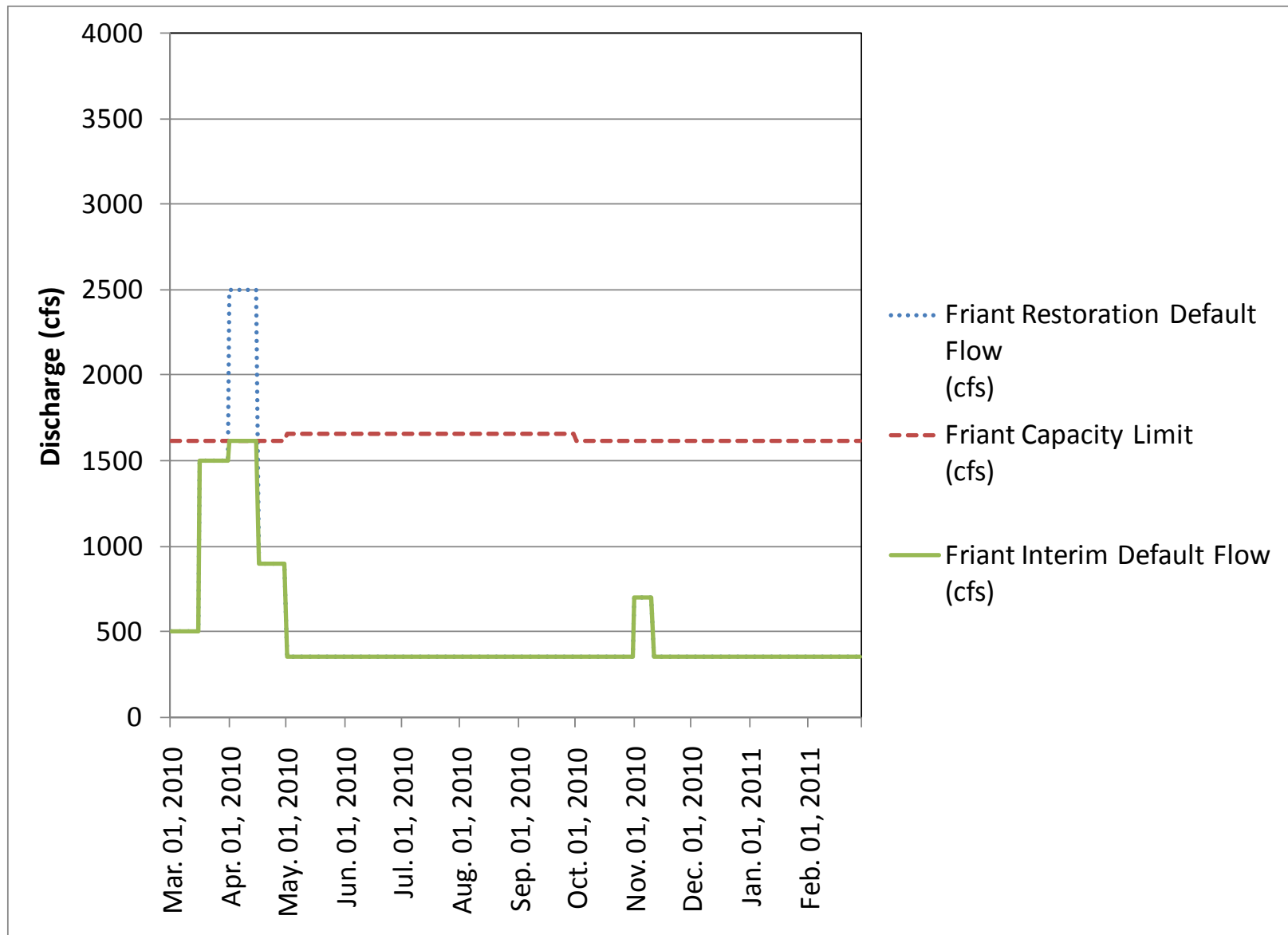


Figure 1 – Default Flow Schedule at Friant Dam

San Joaquin River Restoration Program March 1, 2010 Default Flow Schedule

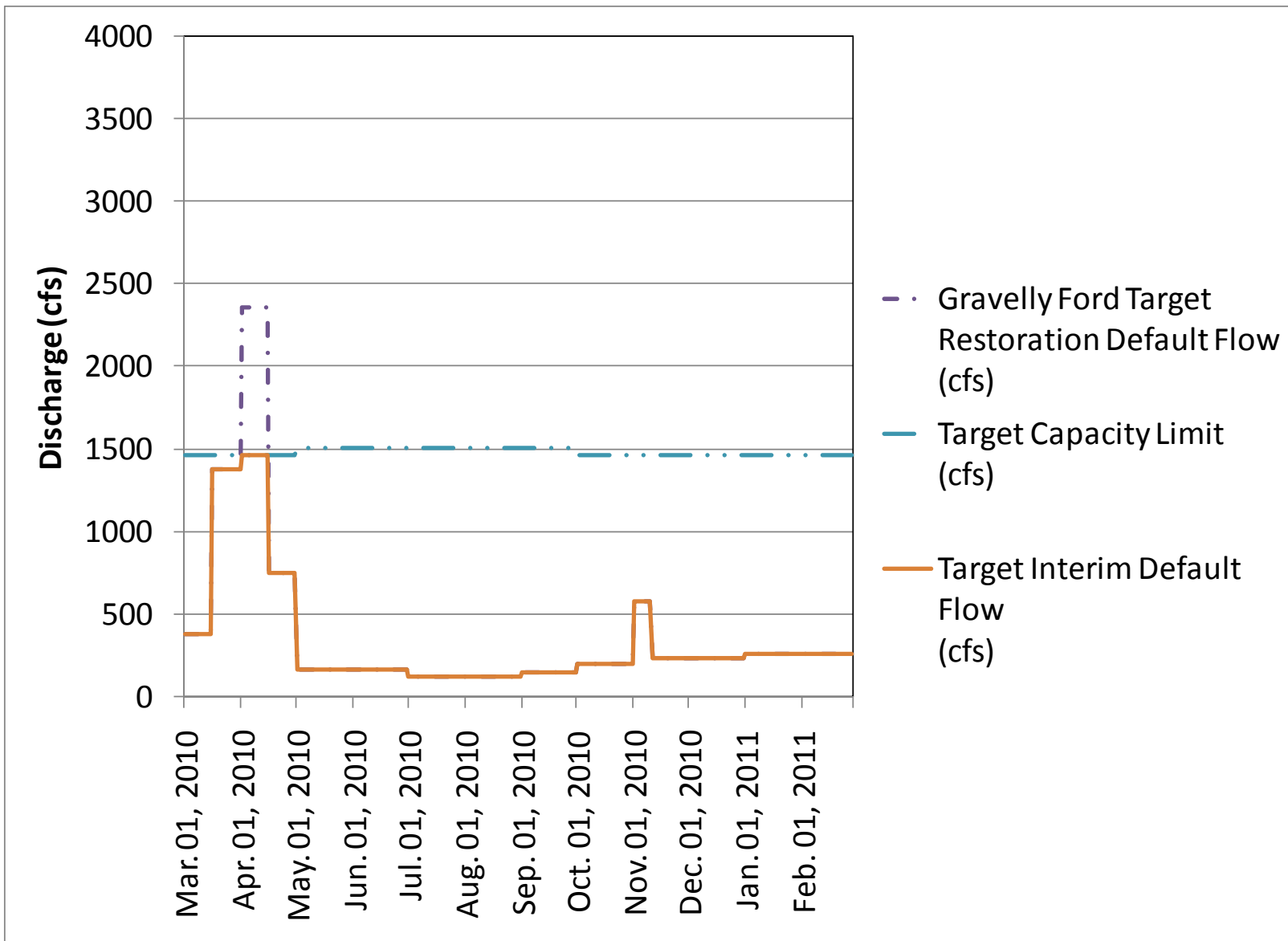


Figure 2 – Default Flow Schedule at Gravelly Ford