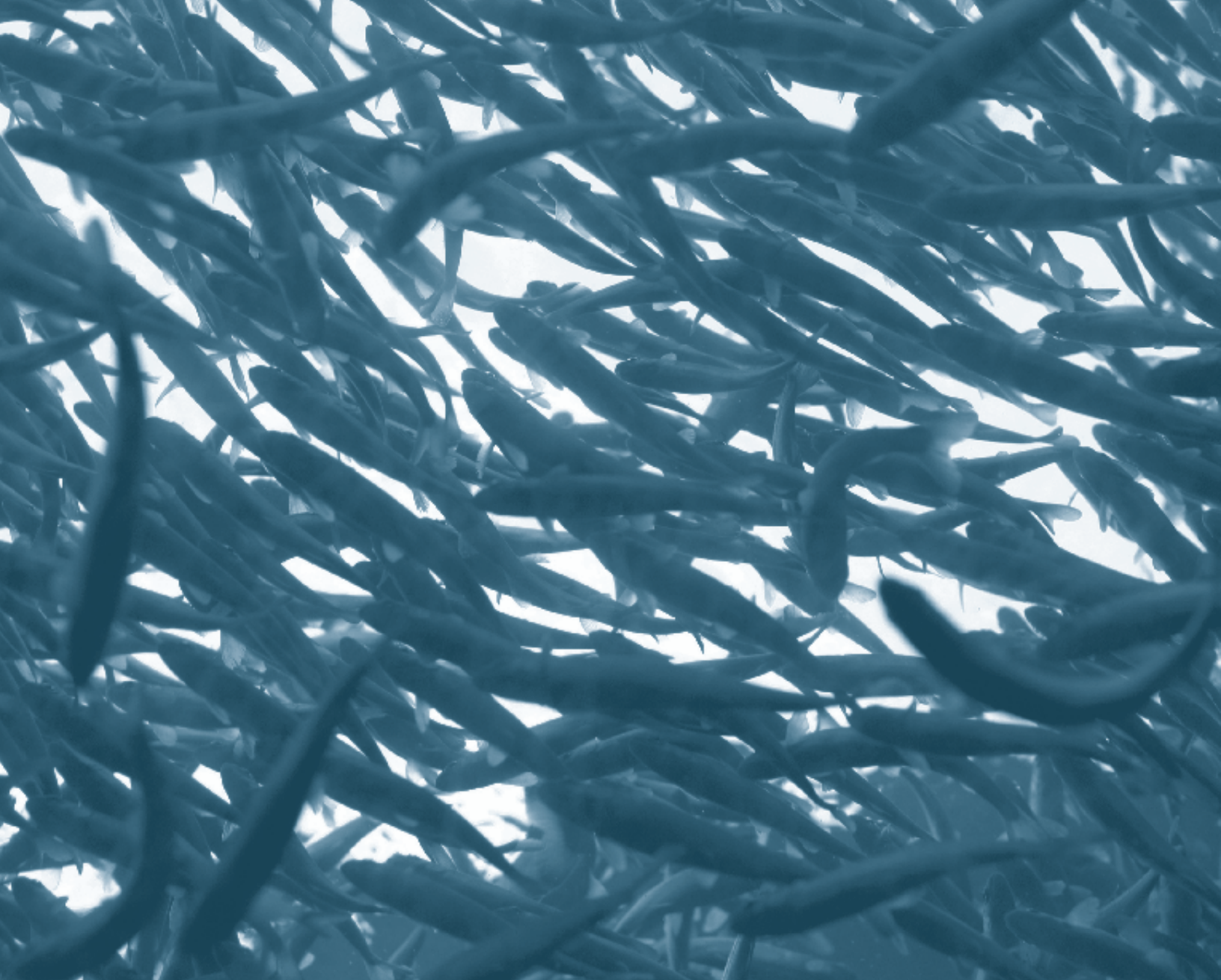


# Appendix A

## Hydrology and Operation Plans



**Appendix A-1, Table 1**  
 2005 VAMP DAILY OPERATION PLAN  
 March 23, 2005 (A) • Low  
 Target Flow Period: April 15 - May 15 • Flow Target: greater than 7,000 cfs  
**Bold Numbers: observed real-time mean daily flows**

Date	San Joaquin River near Vernalis					Merced River at Cressey		Merced River at Cressey				Tuolumne River at LaGrange				Stanislaus R blw Goodwin					Maintain Priority Flow Level M=Merced T=Tuol. S=Stan.	
	Existing Flow	VAMP Suppl. Flow	Other Suppl. Flow	Cum. VAMP Suppl. Flow	VAMP Flow	SJR above Merced R. (2 day lag)	Un-gaged Flow above Vernalis	Existing Flow	MelD VAMP Suppl. Flow	Exch Contr VAMP Suppl. Flow	VAMP Flow (3 day lag)	Existing Flow - base FERC Volume	Existing Flow - Adjusted FERC Pulse	VAMP Suppl. Flow	VAMP Flow (2 day lag)	Existing Flow - Base	Existing Flow- reshaped	VAMP Suppl. Flow	Other Suppl. Flow	VAMP Flow (2-day lag)		
	(cfs)	(cfs)	(cfs)	(TAF)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)		
15-Mar-05	<b>6,260</b>				<b>6,260</b>	<b>1,278</b>	<b>1,183</b>	<b>285</b>		<b>285</b>	<b>3,140</b>	<b>3,140</b>		<b>3,140</b>	<b>229</b>	<b>229</b>			<b>229</b>			
16-Mar-05	<b>6,180</b>				<b>6,180</b>	<b>1,234</b>	<b>1,201</b>	<b>275</b>		<b>275</b>	<b>3,140</b>	<b>3,140</b>		<b>3,140</b>	<b>229</b>	<b>229</b>			<b>229</b>			
17-Mar-05	<b>6,040</b>				<b>6,040</b>	<b>1,181</b>	<b>1,110</b>	<b>276</b>		<b>276</b>	<b>3,120</b>	<b>3,120</b>		<b>3,120</b>	<b>229</b>	<b>229</b>			<b>229</b>			
18-Mar-05	<b>5,820</b>				<b>5,820</b>	<b>1,163</b>	<b>932</b>	<b>274</b>		<b>274</b>	<b>3,150</b>	<b>3,150</b>		<b>3,150</b>	<b>229</b>	<b>229</b>			<b>229</b>			
19-Mar-05	<b>5,800</b>				<b>5,800</b>	<b>1,163</b>	<b>995</b>	<b>292</b>		<b>292</b>	<b>3,190</b>	<b>3,190</b>		<b>3,190</b>	<b>228</b>	<b>228</b>			<b>228</b>			
20-Mar-05	<b>5,750</b>				<b>5,750</b>	<b>1,151</b>	<b>932</b>	<b>322</b>		<b>322</b>	<b>3,170</b>	<b>3,170</b>		<b>3,170</b>	<b>226</b>	<b>226</b>			<b>226</b>			
21-Mar-05	<b>5,850</b>				<b>5,850</b>	<b>1,246</b>	<b>995</b>	<b>335</b>		<b>335</b>	<b>3,160</b>	<b>3,160</b>		<b>3,160</b>	<b>226</b>	<b>226</b>			<b>226</b>			
22-Mar-05	<b>5,880</b>				<b>5,880</b>	<b>1,535</b>	<b>1,041</b>	<b>356</b>		<b>356</b>	<b>3,120</b>	<b>3,120</b>		<b>3,120</b>	<b>245</b>	<b>245</b>			<b>245</b>			
23-Mar-05																						
24-Mar-05																						
25-Mar-05																						
26-Mar-05																						
27-Mar-05																						
28-Mar-05								650														
29-Mar-05								650														
30-Mar-05								650			3,000	3,000			225	225						
31-Mar-05						879		650			3,000	3,000			225	225						
01-Apr-05	5,554					869	800	650		650	3,000	3,000		3,000	225	225				225		
02-Apr-05	5,549					864	800	650		650	3,000	3,000		3,000	225	225				225		
03-Apr-05	5,544					859	800	650		650	3,000	3,000		3,000	225	225				225		
04-Apr-05	5,539				5,539	854	800	650		650	3,000	3,000		3,000	225	225				225		
05-Apr-05	5,534				5,534	848	800	650		650	3,000	3,000		3,000	225	225				225		
06-Apr-05	5,529				5,529	842	800	650		650	3,000	3,000		3,000	225	225				225		
07-Apr-05	5,523				5,523	836	800	650		650	3,000	3,000		3,000	225	225				225		
08-Apr-05	5,517				5,517	830	800	650		650	3,000	3,000		3,000	225	225				225		
09-Apr-05	5,511				5,511	824	800	650		650	3,000	3,000		3,000	225	225				225		
10-Apr-05	5,505				5,505	818	800	650		650	3,000	3,000		3,000	225	225				225		
11-Apr-05	5,499				5,499	812	800	650		650	3,000	3,000		3,000	225	225				225		
12-Apr-05	5,493				5,493	806	800	650	270	0	920	3,000	3,000		3,000	225	225				225	
13-Apr-05	5,487	0			5,487	800	800	650	270	0	920	3,000	3,000	0	3,000	1,500	1,500	0	0		1,500	
14-Apr-05	5,481	0			5,481	794	800	650	270	0	920	3,000	3,000	0	3,000	1,500	1,500	0	0		1,500	
15-Apr-05	6,750	270	0	0.54	7,020	789	800	650	270	0	920	3,000	3,000	0	3,000	1,500	1,500	0	0		1,500	
16-Apr-05	6,744	270	0	1.07	7,014	783	800	650	270	0	920	3,000	3,000	0	3,000	1,500	1,500	0	0		1,500	
17-Apr-05	6,739	270	0	1.61	7,009	777	800	650	270	0	920	3,000	3,000	0	3,000	1,500	1,500	0	0		1,500	
18-Apr-05	6,733	270	0	2.14	7,003	772	800	650	270	0	920	3,000	3,000	0	3,000	1,500	1,500	0	0		1,500	
19-Apr-05	6,727	270	0	2.68	6,997	766	800	650	270	0	920	3,000	3,000	0	3,000	1,500	1,500	0	0		1,500	
20-Apr-05	6,722	270	0	3.21	6,992	760	800	650	270	0	920	3,000	3,000	0	3,000	1,500	1,500	0	0		1,500	
21-Apr-05	6,716	270	0	3.75	6,986	755	800	650	320	0	970	3,000	3,000	0	3,000	1,500	1,500	0	0		1,500	
22-Apr-05	6,710	270	0	4.28	6,980	749	800	650	320	0	970	3,000	3,000	0	3,000	1,500	1,500	0	0		1,500	
23-Apr-05	6,705	270	0	4.82	6,975	743	800	650	320	0	970	3,000	3,000	0	3,000	1,500	1,500	0	0		1,500	
24-Apr-05	6,699	320	0	5.45	7,019	738	800	650	320	0	970	3,000	3,000	0	3,000	1,500	1,500	0	0		1,500	
25-Apr-05	6,693	320	0	6.09	7,013	732	800	650	320	0	970	3,000	3,000	0	3,000	1,500	1,500	0	0		1,500	
26-Apr-05	6,688	320	0	6.72	7,008	726	800	650	320	0	970	3,000	3,000	0	3,000	1,500	1,500	0	0		1,500	
27-Apr-05	6,682	320	0	7.36	7,002	721	800	650	320	0	970	3,000	3,000	0	3,000	1,500	1,500	0	0		1,500	
28-Apr-05	6,676	320	0	7.99	6,996	715	800	650	320	0	970	3,000	3,000	0	3,000	1,500	1,500	0	0		1,500	
29-Apr-05	6,671	320	0	8.63	6,991	709	800	650	320	0	970	3,000	3,000	0	3,000	1,500	1,500	0	0		1,500	
30-Apr-05	6,665	320	0	9.26	6,985	704	800	650	370	0	1,020	3,000	3,000	0	3,000	1,500	1,500	0	0		1,500	
01-May-05	6,659	320	0	9.90	6,979	698	800	650	370	0	1,020	3,000	3,000	0	3,000	1,500	1,500	0	0		1,500	
02-May-05	6,654	320	0	10.53	6,974	692	800	650	370	0	1,020	3,000	3,000	0	3,000	1,500	1,500	0	0		1,500	
03-May-05	6,648	370	0	11.27	7,018	687	800	650	370	0	1,020	3,000	3,000	0	3,000	1,500	1,500	0	0		1,500	
04-May-05	6,642	370	0	12.00	7,012	681	800	650	370	0	1,020	3,000	3,000	0	3,000	1,500	1,500	0	0		1,500	
05-May-05	6,637	370	0	12.73	7,007	675	800	650	370	0	1,020	3,000	3,000	0	3,000	1,500	1,500	0	0		1,500	
06-May-05	6,631	370	0	13.47	7,001	670	800	650	410	0	1,060	3,000	3,000	0	3,000	1,500	1,500	0	0		1,500	
07-May-05	6,625	370	0	14.20	6,995	664	800	650	410	0	1,060	3,000	3,000	0	3,000	1,500	1,500	0	0		1,500	
08-May-05	6,620	370	0	14.94	6,990	658	800	650	410	0	1,060	3,000	3,000	0	3,000	1,500	1,500	0	0		1,500	
09-May-05	6,614	410	0	15.75	7,024	653	800	650	410	0	1,060	3,000	3,000	0	3,000	1,500	1,500	0	0		1,500	
10-May-05	6,608	410	0	16.56	7,018	647	800	650	410	0	1,060	3,000	3,000	0	3,000	1,500	1,500	0	0		1,500	
11-May-05	6,603	410	0	17.38	7,013	641	800	650	410	0	1,060	3,000	3,000	0	3,000	1,500	1,500	0	0		1,500	
12-May-05	6,597	410	0	18.19	7,007	636	800	650	395	0	1,045	3,000	3,000	0	3,000	1,500	1,500	0	0		1,500	
13-May-05	6,591	410	0	19.00	7,001	630	800	650			650	3,000	3,000	0	3,000	1,500	1,500	0	0		1,500	
14-May-05	6,586	410	0	19.81	6,996	625	800	650			650	3,000	3,000		3,000	352	352				352	
15-May-05	6,580	395	0	20.60	6,975	620	800	650			650	3,000	3,000		3,000	352	352				352	
16-May-05	5,427	0	0		5,427	615	800	650			650	3,000	3,000		3,000	352	352				352	
17-May-05	5,422	0	0		5,422	610	800	650			650	3,000	3,000		3,000	352	352				352	
18-May-05	5,417	0	0		5,417	605	800	650			650	3,000	3,000		3,000	352	352				352	
VAMP Period																						
Avg. (cfs):	6,665	335			7,000	715	800	650	335	0	985	3,000	3,000	0	3,000	1,500	1,500	0	0		1,500	
Suppl. Water (T																						

**Appendix A-1, Table 2**  
**2005 VAMP DAILY OPERATION PLAN**  
 March 23, 2005 (B) • High  
 Target Flow Period: April 15 - May 15 • Flow Target: greater than 7,000 cfs  
**Bold Numbers: observed real-time mean daily flows**

Date	San Joaquin River near Vernalis					Merced River at Cressey		Tuolumne River at LaGrange				Stanislaus R blw Goodwin					Maintain Priority Flow Level M=Merced T=Tuol. S=Stan.				
	Existing Flow	VAMP Suppl. Flow	Other Suppl. Flow	Cum. VAMP Suppl. Flow	VAMP Flow	SJR above Merced R. (2 day lag)	Ungaged Flow above Vernalis	Existing Flow	MelD VAMP Suppl. Flow	Exch Contr VAMP Suppl. Flow	VAMP Flow (3 day lag)	Existing Flow - base FERC Volume	Existing Flow - Adjusted FERC Pulse	VAMP Suppl. Flow	VAMP Flow (2 day lag)	Existing Flow - Base		Existing Flow- reshaped	VAMP Suppl. Flow	Other Suppl. Flow	VAMP Flow (2-day lag)
	(cfs)	(cfs)	(cfs)	(TAF)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	
15-Mar-05	<b>6,260</b>				<b>6,260</b>	<b>1,278</b>	<b>1,183</b>	<b>285</b>			<b>285</b>	<b>3,140</b>	<b>3,140</b>		<b>3,140</b>	<b>229</b>	<b>229</b>			<b>229</b>	
16-Mar-05	<b>6,180</b>				<b>6,180</b>	<b>1,234</b>	<b>1,201</b>	<b>275</b>			<b>275</b>	<b>3,140</b>	<b>3,140</b>		<b>3,140</b>	<b>229</b>	<b>229</b>			<b>229</b>	
17-Mar-05	<b>6,040</b>				<b>6,040</b>	<b>1,181</b>	<b>1,110</b>	<b>276</b>			<b>276</b>	<b>3,120</b>	<b>3,120</b>		<b>3,120</b>	<b>229</b>	<b>229</b>			<b>229</b>	
18-Mar-05	<b>5,820</b>				<b>5,820</b>	<b>1,163</b>	<b>932</b>	<b>274</b>			<b>274</b>	<b>3,150</b>	<b>3,150</b>		<b>3,150</b>	<b>229</b>	<b>229</b>			<b>229</b>	
19-Mar-05	<b>5,800</b>				<b>5,800</b>	<b>1,163</b>	<b>995</b>	<b>292</b>			<b>292</b>	<b>3,190</b>	<b>3,190</b>		<b>3,190</b>	<b>228</b>	<b>228</b>			<b>228</b>	
20-Mar-05	<b>5,750</b>				<b>5,750</b>	<b>1,151</b>	<b>932</b>	<b>322</b>			<b>322</b>	<b>3,170</b>	<b>3,170</b>		<b>3,170</b>	<b>226</b>	<b>226</b>			<b>226</b>	
21-Mar-05	<b>5,850</b>				<b>5,850</b>	<b>1,246</b>	<b>995</b>	<b>335</b>			<b>335</b>	<b>3,160</b>	<b>3,160</b>		<b>3,160</b>	<b>226</b>	<b>226</b>			<b>226</b>	
22-Mar-05	<b>5,880</b>				<b>5,880</b>	<b>1,535</b>	<b>1,041</b>	<b>356</b>			<b>356</b>	<b>3,120</b>	<b>3,120</b>		<b>3,120</b>	<b>245</b>	<b>245</b>			<b>245</b>	
23-Mar-05																					
24-Mar-05																					
25-Mar-05																					
26-Mar-05																					
27-Mar-05																					
28-Mar-05																					
29-Mar-05																					
30-Mar-05								650													
31-Mar-05						879		650				3,400	3,400			225	225				
01-Apr-05	6,354					874		650				3,400	3,400			225	225				
02-Apr-05	6,349					869	1,200	650		650		3,400	3,400	3,400		225	225				225
03-Apr-05	6,344					864	1,200	650		650		3,400	3,400	3,400		225	225				225
04-Apr-05						859	1,200	650		650		3,400	3,400	3,400		225	225				225
05-Apr-05	6,339				6,339	854	1,200	650		650		3,400	3,400	3,400		225	225				225
06-Apr-05	6,334				6,334	848	1,200	650		650		3,400	3,400	3,400		225	225				225
07-Apr-05	6,329				6,329	842	1,200	650		650		3,400	3,400	3,400		225	225				225
08-Apr-05	6,323				6,323	836	1,200	650		650		3,400	3,400	3,400		225	225				225
09-Apr-05	6,317				6,317	830	1,200	650		650		3,400	3,400	3,400		225	225				225
10-Apr-05	6,311				6,311	824	1,200	650		650		3,400	3,400	3,400		225	225				225
11-Apr-05	6,305				6,305	818	1,200	650		650		3,400	3,400	3,400		225	225				225
12-Apr-05	6,299				6,299	812	1,200	650		650		3,400	3,400	3,400		225	225				225
13-Apr-05	6,293				6,293	806	1,200	650	0	0	650	3,400	3,400	3,400		225	225				225
14-Apr-05	6,287	0			6,287	800	1,200	650	0	0	650	3,400	3,400	0	3,400	1,500	1,500	0	0		1,500
15-Apr-05	6,281	0			6,281	794	1,200	650	0	0	650	3,400	3,400	0	3,400	1,500	1,500	0	0		1,500
16-Apr-05	7,550	0	0	0.00	7,550	789	1,200	650	0	0	650	3,400	3,400	0	3,400	1,500	1,500	0	0		1,500
17-Apr-05	7,544	0	0	0.00	7,544	783	1,200	650	0	0	650	3,400	3,400	0	3,400	1,500	1,500	0	0		1,500
18-Apr-05	7,539	0	0	0.00	7,539	777	1,200	650	0	0	650	3,400	3,400	0	3,400	1,500	1,500	0	0		1,500
19-Apr-05	7,533	0	0	0.00	7,533	772	1,200	650	0	0	650	3,400	3,400	0	3,400	1,500	1,500	0	0		1,500
20-Apr-05	7,527	0	0	0.00	7,527	766	1,200	650	0	0	650	3,400	3,400	0	3,400	1,500	1,500	0	0		1,500
21-Apr-05	7,522	0	0	0.00	7,522	760	1,200	650	0	0	650	3,400	3,400	0	3,400	1,500	1,500	0	0		1,500
22-Apr-05	7,516	0	0	0.00	7,516	755	1,200	650	0	0	650	3,400	3,400	0	3,400	1,500	1,500	0	0		1,500
23-Apr-05	7,510	0	0	0.00	7,510	749	1,200	650	0	0	650	3,400	3,400	0	3,400	1,500	1,500	0	0		1,500
24-Apr-05	7,505	0	0	0.00	7,505	743	1,200	650	0	0	650	3,400	3,400	0	3,400	1,500	1,500	0	0		1,500
25-Apr-05	7,499	0	0	0.00	7,499	738	1,200	650	0	0	650	3,400	3,400	0	3,400	1,500	1,500	0	0		1,500
26-Apr-05	7,493	0	0	0.00	7,493	732	1,200	650	0	0	650	3,400	3,400	0	3,400	1,500	1,500	0	0		1,500
27-Apr-05	7,488	0	0	0.00	7,488	726	1,200	650	0	0	650	3,400	3,400	0	3,400	1,500	1,500	0	0		1,500
28-Apr-05	7,482	0	0	0.00	7,482	721	1,200	650	0	0	650	3,400	3,400	0	3,400	1,500	1,500	0	0		1,500
29-Apr-05	7,476	0	0	0.00	7,476	715	1,200	650	0	0	650	3,400	3,400	0	3,400	1,500	1,500	0	0		1,500
30-Apr-05	7,471	0	0	0.00	7,471	709	1,200	650	0	0	650	3,400	3,400	0	3,400	1,500	1,500	0	0		1,500
01-May-05	7,465	0	0	0.00	7,465	704	1,200	650	0	0	650	3,400	3,400	0	3,400	1,500	1,500	0	0		1,500
02-May-05	7,459	0	0	0.00	7,459	698	1,200	650	0	0	650	3,400	3,400	0	3,400	1,500	1,500	0	0		1,500
03-May-05	7,454	0	0	0.00	7,454	692	1,200	650	0	0	650	3,400	3,400	0	3,400	1,500	1,500	0	0		1,500
04-May-05	7,448	0	0	0.00	7,448	687	1,200	650	0	0	650	3,400	3,400	0	3,400	1,500	1,500	0	0		1,500
05-May-05	7,442	0	0	0.00	7,442	681	1,200	650	0	0	650	3,400	3,400	0	3,400	1,500	1,500	0	0		1,500
06-May-05	7,437	0	0	0.00	7,437	675	1,200	650	0	0	650	3,400	3,400	0	3,400	1,500	1,500	0	0		1,500
07-May-05	7,431	0	0	0.00	7,431	670	1,200	650	0	0	650	3,400	3,400	0	3,400	1,500	1,500	0	0		1,500
08-May-05	7,425	0	0	0.00	7,425	664	1,200	650	0	0	650	3,400	3,400	0	3,400	1,500	1,500	0	0		1,500
09-May-05	7,420	0	0	0.00	7,420	658	1,200	650	0	0	650	3,400	3,400	0	3,400	1,500	1,500	0	0		1,500
10-May-05	7,414	0	0	0.00	7,414	653	1,200	650	0	0	650	3,400	3,400	0	3,400	1,500	1,500	0	0		1,500
11-May-05	7,408	0	0	0.00	7,408	647	1,200	650	0	0	650	3,400	3,400	0	3,400	1,500	1,500	0	0		1,500
12-May-05	7,403	0	0	0.00	7,403	641	1,200	650	0	0	650	3,400	3,400	0	3,400	1,500	1,500	0	0		1,500
13-May-05	7,397	0	0	0.00	7,397	636	1,200	650	0	0	650	3,400	3,400	0	3,400	1,500	1,500	0	0		1,500
14-May-05	7,391	0	0	0.00	7,391	630	1,200	650	0	0	650	3,400	3,400	0	3,400	1,500	1,500	0	0		1,500
15-May-05	7,386	0	0	0.00	7,386	625	1,200	650	0	0	650	3,400	3,400	0	3,400	352	352				352
16-May-05	7,380	0	0	0.00	7,380	620	1,200	650	0	0	650	3,400	3,400	0	3,400	352	352				352
17-May-05	6,227	0	0		6,227	615	1,200	650	0	0	650	3,400	3,400	0	3,400	352	352				352
18-May-05	6,222	0	0		6,222	610	1,200	650	0	0	650	3,400	3,400	0	3,400	352	352				352
19-May-05	6,217	0	0		6,217	605	1,200	650	0	0	650	3,400	3,400	0	3,400	352	352				352
VAMP Period																					
Avg. (cfs):	7,465	0			7,465	715	1,200	650	0	0	650	3,400	3,400								

**Appendix A-1, Table 3**  
**2005 VAMP DAILY OPERATION PLAN**  
 March 25, 2005 (A) • Low

Target Flow Period: May 1 - May 31 • Flow Target: greater than 7,000 cfs

**Bold Numbers: observed real-time mean daily flows**

Date	San Joaquin River near Vernalis					SJR above Merced R. (2 day lag)		Merced River at Cresssey				Tuolumne River at LaGrange				Stanislaus R blw Goodwin					Maintain Priority Flow Level M=Merced T=Tuol. S=Stan.
	Existing Flow	VAMP Suppl. Flow	Other Suppl. Flow	Cum. VAMP Suppl. Flow	VAMP Flow	(cfs)	(cfs)	Existing Flow	MelD VAMP Suppl. Flow	Exch Contr VAMP Suppl. Flow	VAMP Flow (3 day lag)	Existing Flow - base FERC Volume	Existing Flow - Adjusted FERC Pulse	VAMP Suppl. Flow	VAMP Flow (2 day lag)	Existing Flow - Base	Existing Flow - reshaped	VAMP Suppl. Flow	Other Suppl. Flow	VAMP Flow (2-day lag)	
	(cfs)	(cfs)	(cfs)	(TAF)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	
15-Mar-05	<b>6,260</b>				<b>6,260</b>	<b>1,278</b>	<b>1,183</b>	<b>285</b>			<b>285</b>	<b>3,140</b>	<b>3,140</b>		<b>3,140</b>	<b>229</b>	<b>229</b>			<b>229</b>	
16-Mar-05	<b>6,180</b>				<b>6,180</b>	<b>1,234</b>	<b>1,201</b>	<b>275</b>			<b>275</b>	<b>3,140</b>	<b>3,140</b>		<b>3,140</b>	<b>229</b>	<b>229</b>			<b>229</b>	
17-Mar-05	<b>6,040</b>				<b>6,040</b>	<b>1,181</b>	<b>1,110</b>	<b>276</b>			<b>276</b>	<b>3,120</b>	<b>3,120</b>		<b>3,120</b>	<b>229</b>	<b>229</b>			<b>229</b>	
18-Mar-05	<b>5,820</b>				<b>5,820</b>	<b>1,163</b>	<b>932</b>	<b>274</b>			<b>274</b>	<b>3,150</b>	<b>3,150</b>		<b>3,150</b>	<b>229</b>	<b>229</b>			<b>229</b>	
19-Mar-05	<b>5,800</b>				<b>5,800</b>	<b>1,163</b>	<b>995</b>	<b>292</b>			<b>292</b>	<b>3,190</b>	<b>3,190</b>		<b>3,190</b>	<b>228</b>	<b>228</b>			<b>228</b>	
20-Mar-05	<b>5,750</b>				<b>5,750</b>	<b>1,151</b>	<b>932</b>	<b>322</b>			<b>322</b>	<b>3,170</b>	<b>3,170</b>		<b>3,170</b>	<b>226</b>	<b>226</b>			<b>226</b>	
21-Mar-05	<b>5,850</b>				<b>5,850</b>	<b>1,246</b>	<b>995</b>	<b>335</b>			<b>335</b>	<b>3,160</b>	<b>3,160</b>		<b>3,160</b>	<b>226</b>	<b>226</b>			<b>226</b>	
22-Mar-05	<b>5,880</b>				<b>5,880</b>	<b>1,535</b>	<b>1,041</b>	<b>356</b>			<b>356</b>	<b>3,120</b>	<b>3,120</b>		<b>3,120</b>	<b>245</b>	<b>245</b>			<b>245</b>	
23-Mar-05	<b>6,540</b>				<b>6,540</b>	<b>1,502</b>	<b>1,586</b>	<b>1,774</b>			<b>1,774</b>	<b>3,170</b>	<b>3,170</b>		<b>3,170</b>	<b>232</b>	<b>232</b>			<b>232</b>	
24-Mar-05	<b>8,230</b>				<b>8,230</b>	<b>1,789</b>	<b>2,995</b>	<b>1,769</b>			<b>1,769</b>	<b>4,230</b>	<b>4,230</b>		<b>4,230</b>	<b>301</b>	<b>301</b>			<b>301</b>	
25-Mar-05																					
26-Mar-05																					
27-Mar-05																					
28-Mar-05																					
29-Mar-05																					
30-Mar-05																					
31-Mar-05																					
01-Apr-05						869	800	1,220			1,220	3,400	3,400		3,400	225	225			225	
02-Apr-05						864	800	1,220			1,220	3,400	3,400		3,400	225	225			225	
03-Apr-05						859	800	1,220			1,220	3,400	3,400		3,400	225	225			225	
04-Apr-05	6,509				6,509	854	800	1,220			1,220	3,400	3,400		3,400	225	225			225	
05-Apr-05	6,504				6,504	848	800	1,220			1,220	3,400	3,400		3,400	225	225			225	
06-Apr-05	6,499				6,499	842	800	1,220			1,220	3,400	3,400		3,400	225	225			225	
07-Apr-05	6,493				6,493	836	800	1,220			1,220	3,400	3,400		3,400	225	225			225	
08-Apr-05	6,487				6,487	830	800	1,220			1,220	3,400	3,400		3,400	225	225			225	
09-Apr-05	6,481				6,481	824	800	1,220			1,220	3,400	3,400		3,400	225	225			225	
10-Apr-05	6,475				6,475	818	800	1,220			1,220	3,400	3,400		3,400	225	225			225	
11-Apr-05	6,469				6,469	812	800	1,220			1,220	3,400	3,400		3,400	225	225			225	
12-Apr-05	6,463				6,463	806	800	1,220			1,220	3,400	3,400		3,400	225	225			225	
13-Apr-05	6,457				6,457	800	800	1,220			1,220	3,400	3,400		3,400	225	225			225	
14-Apr-05	6,451				6,451	794	800	1,220			1,220	3,400	3,400		3,400	225	225			225	
15-Apr-05	6,445				6,445	789	800	1,220			1,220	3,400	3,400		3,400	225	225			225	
16-Apr-05	6,439				6,439	783	800	1,220			1,220	3,400	3,400		3,400	225	225			225	
17-Apr-05	6,434				6,434	777	800	1,220			1,220	3,400	3,400		3,400	225	225			225	
18-Apr-05	6,428				6,428	772	800	1,220			1,220	3,400	3,400		3,400	225	225			225	
19-Apr-05	6,422				6,422	766	800	1,220			1,220	3,400	3,400		3,400	225	225			225	
20-Apr-05	6,417				6,417	760	800	1,220			1,220	3,400	3,400		3,400	225	225			225	
21-Apr-05	6,411				6,411	755	800	1,220			1,220	3,400	3,400		3,400	225	225			225	
22-Apr-05	6,405				6,405	749	800	1,220			1,220	3,400	3,400		3,400	225	225			225	
23-Apr-05	6,400				6,400	743	800	1,220			1,220	3,400	3,400		3,400	225	225			225	
24-Apr-05	6,394				6,394	738	800	1,220			1,220	3,400	3,400		3,400	225	225			225	
25-Apr-05	6,388				6,388	732	800	1,220			1,220	3,400	3,400		3,400	225	225			225	
26-Apr-05	6,383				6,383	726	800	1,220			1,220	3,400	3,400		3,400	225	225			225	
27-Apr-05	6,377				6,377	721	800	1,220			1,220	3,400	3,400		3,400	225	225			225	
28-Apr-05	6,371				6,371	715	800	1,220	120	0	1,340	3,400	3,400		3,400	225	225			225	
29-Apr-05	6,366				6,366	709	800	1,220	120	0	1,340	2,700	2,700	0	2,700	1,500	1,500	0	0	1,500	
30-Apr-05	6,360				6,360	704	800	1,220	120	0	1,340	2,700	2,700	0	2,700	1,500	1,500	0	0	1,500	
01-May-05	6,929	120	0	0.24	7,049	698	800	1,180	120	0	1,300	2,700	2,700	0	2,700	1,500	1,500	0	0	1,500	
02-May-05	6,924	120	0	0.48	7,044	692	800	1,180	120	0	1,300	2,700	2,700	0	2,700	1,500	1,500	0	0	1,500	
03-May-05	6,918	120	0	0.71	7,038	687	800	1,180	160	0	1,340	2,700	2,700	0	2,700	1,500	1,500	0	0	1,500	
04-May-05	6,872	120	0	0.95	6,992	681	800	1,180	160	0	1,340	2,700	2,700	0	2,700	1,500	1,500	0	0	1,500	
05-May-05	6,867	120	0	1.19	6,987	675	800	1,180	160	0	1,340	2,700	2,700	0	2,700	1,500	1,500	0	0	1,500	
06-May-05	6,861	160	0	1.51	7,021	670	800	1,180	160	0	1,340	2,700	2,700	0	2,700	1,500	1,500	0	0	1,500	
07-May-05	6,855	160	0	1.82	7,015	664	800	1,180	160	0	1,340	2,700	2,700	0	2,700	1,500	1,500	0	0	1,500	
08-May-05	6,850	160	0	2.14	7,010	658	800	1,180	200	0	1,380	2,700	2,700	0	2,700	1,500	1,500	0	0	1,500	
09-May-05	6,844	160	0	2.46	7,004	653	800	1,180	200	0	1,380	2,700	2,700	0	2,700	1,500	1,500	0	0	1,500	
10-May-05	6,838	160	0	2.78	6,998	647	800	1,180	200	0	1,380	2,700	2,700	0	2,700	1,500	1,500	0	0	1,500	
11-May-05	6,833	200	0	3.17	7,033	641	800	1,180	200	0	1,380	2,700	2,700	0	2,700	1,500	1,500	0	0	1,500	
12-May-05	6,827	200	0	3.57	7,027	636	800	1,180	200	0	1,380	2,700	2,700	0	2,700	1,500	1,500	0	0	1,500	
13-May-05	6,821	200	0	3.97	7,021	630	800	1,180	200	0	1,380	2,700	2,700	0	2,700	1,500	1,500	0	0	1,500	
14-May-05	6,816	200	0	4.36	7,016	625	800	1,180	200	0	1,380	2,700	2,700	0	2,700	1,500	1,500	0	0	1,500	
15-May-05	6,810	200	0	4.76	7,010	620	800	1,180	200	0	1,380	2,700	2,700	0	2,700	1,500	1,500	0	0	1,500	
16-May-05	6,805	200	0	5.16	7,005	615	800	1,180	220	0	1,400	2,700	2,700	0	2,700	1,500	1,500	0	0	1,500	
17-May-05	6,800	200	0	5.55	7,000	610	800	1,180	220	0	1,400	2,700	2,700	0	2,700	1,500	1,500	0	0	1,500	
18-May-05	6,795	200	0	5.95	6,995	605	800	1,180	220	0	1,400	2,700	2,700	0	2,700	1,500	1,500	0	0	1,500	
19-May-05	6,790	220	0	6.39	7,010	600	800	1,180	220	0	1,400	2,700	2,700	0	2,700	1,500	1,500	0	0	1,500	
20-May-05	6,785	220	0	6.82	7,005	595	800	1,180	220	0	1,400	2,700	2,700	0	2,700	1,500	1,500	0	0	1,500	
21-May-05	6,780	220	0	7.26	7,000	590	800	1,180	220	0	1,400	2,700	2,700	0	2,700	1,500	1,500	0	0	1,500	
22-May-05	6,775	220	0	7.70	6,995	585	800	1,180	220	0	1,400										

**Appendix A-1, Table 4**  
**2005 VAMP DAILY OPERATION PLAN**  
 March 25, 2005 (B) • High

Target Flow Period: May 1 - May 31 • Flow Target: greater than 7,000 cfs

**Bold Numbers: observed real-time mean daily flows**

Date	San Joaquin River near Vernalis					SJ above Merced R. (2 day lag)		Merced River at Cressey				Tuolumne River at LaGrange				Stanislaus R blw Goodwin				Maintain Priority Flow Level M=Merced T=Tuol. S=Stan.	
	Existing Flow	VAMP Suppl. Flow	Other Suppl. Flow	Cum. VAMP Suppl. Flow	VAMP Flow	Flow above Vernalis	Flow above Vernalis	Existing Flow	MelD VAMP Suppl. Flow	Exch Contr VAMP Suppl. Flow	VAMP Flow (3 day lag)	Existing Flow - base FERC Volume	Existing Flow - Adjusted FERC Pulse	VAMP Suppl. Flow	VAMP Flow (2 day lag)	Existing Flow - Base	Existing Flow - reshaped	VAMP Suppl. Flow	Other Suppl. Flow		VAMP Flow (2-day lag)
	(cfs)	(cfs)	(cfs)	(TAF)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	
15-Mar-05	<b>6,260</b>				<b>6,260</b>	<b>1,278</b>	<b>1,183</b>	<b>285</b>			<b>285</b>	<b>3,140</b>	<b>3,140</b>		<b>3,140</b>	<b>229</b>	<b>229</b>			<b>229</b>	
16-Mar-05	<b>6,180</b>				<b>6,180</b>	<b>1,234</b>	<b>1,201</b>	<b>275</b>			<b>275</b>	<b>3,140</b>	<b>3,140</b>		<b>3,140</b>	<b>229</b>	<b>229</b>			<b>229</b>	
17-Mar-05	<b>6,040</b>				<b>6,040</b>	<b>1,181</b>	<b>1,110</b>	<b>276</b>			<b>276</b>	<b>3,120</b>	<b>3,120</b>		<b>3,120</b>	<b>229</b>	<b>229</b>			<b>229</b>	
18-Mar-05	<b>5,820</b>				<b>5,820</b>	<b>1,163</b>	<b>932</b>	<b>274</b>			<b>274</b>	<b>3,150</b>	<b>3,150</b>		<b>3,150</b>	<b>229</b>	<b>229</b>			<b>229</b>	
19-Mar-05	<b>5,800</b>				<b>5,800</b>	<b>1,163</b>	<b>995</b>	<b>292</b>			<b>292</b>	<b>3,190</b>	<b>3,190</b>		<b>3,190</b>	<b>228</b>	<b>228</b>			<b>228</b>	
20-Mar-05	<b>5,750</b>				<b>5,750</b>	<b>1,151</b>	<b>932</b>	<b>322</b>			<b>322</b>	<b>3,170</b>	<b>3,170</b>		<b>3,170</b>	<b>226</b>	<b>226</b>			<b>226</b>	
21-Mar-05	<b>5,850</b>				<b>5,850</b>	<b>1,246</b>	<b>995</b>	<b>335</b>			<b>335</b>	<b>3,160</b>	<b>3,160</b>		<b>3,160</b>	<b>226</b>	<b>226</b>			<b>226</b>	
22-Mar-05	<b>5,880</b>				<b>5,880</b>	<b>1,535</b>	<b>1,041</b>	<b>356</b>			<b>356</b>	<b>3,120</b>	<b>3,120</b>		<b>3,120</b>	<b>245</b>	<b>245</b>			<b>245</b>	
23-Mar-05	<b>6,540</b>				<b>6,540</b>	<b>1,502</b>	<b>1,586</b>	<b>1,774</b>			<b>1,774</b>	<b>3,170</b>	<b>3,170</b>		<b>3,170</b>	<b>232</b>	<b>232</b>			<b>232</b>	
24-Mar-05	<b>8,230</b>				<b>8,230</b>	<b>1,789</b>	<b>2,995</b>	<b>1,769</b>			<b>1,769</b>	<b>4,230</b>	<b>4,230</b>		<b>4,230</b>	<b>301</b>	<b>301</b>			<b>301</b>	
25-Mar-05																					
26-Mar-05																					
27-Mar-05																					
28-Mar-05																					
29-Mar-05																					
30-Mar-05																					
31-Mar-05																					
01-Apr-05						869	1,200	1,220			1,220	3,400	3,400		3,400	225	225			225	
02-Apr-05						864	1,200	1,220			1,220	3,400	3,400		3,400	225	225			225	
03-Apr-05						859	1,200	1,220			1,220	3,400	3,400		3,400	225	225			225	
04-Apr-05	6,909				6,909	854	1,200	1,220			1,220	3,400	3,400		3,400	225	225			225	
05-Apr-05	6,904				6,904	848	1,200	1,220			1,220	3,400	3,400		3,400	225	225			225	
06-Apr-05	6,899				6,899	842	1,200	1,220			1,220	3,400	3,400		3,400	225	225			225	
07-Apr-05	6,893				6,893	836	1,200	1,220			1,220	3,400	3,400		3,400	225	225			225	
08-Apr-05	6,887				6,887	830	1,200	1,220			1,220	3,400	3,400		3,400	225	225			225	
09-Apr-05	6,881				6,881	824	1,200	1,220			1,220	3,400	3,400		3,400	225	225			225	
10-Apr-05	6,875				6,875	818	1,200	1,220			1,220	3,400	3,400		3,400	225	225			225	
11-Apr-05	6,869				6,869	812	1,200	1,220			1,220	3,400	3,400		3,400	225	225			225	
12-Apr-05	6,863				6,863	806	1,200	1,220			1,220	3,400	3,400		3,400	225	225			225	
13-Apr-05	6,857				6,857	800	1,200	1,220			1,220	3,400	3,400		3,400	225	225			225	
14-Apr-05	6,851				6,851	794	1,200	1,220			1,220	3,400	3,400		3,400	225	225			225	
15-Apr-05	6,845				6,845	789	1,200	1,220			1,220	3,400	3,400		3,400	225	225			225	
16-Apr-05	6,839				6,839	783	1,200	1,220			1,220	3,400	3,400		3,400	225	225			225	
17-Apr-05	6,834				6,834	777	1,200	1,220			1,220	3,400	3,400		3,400	225	225			225	
18-Apr-05	6,828				6,828	772	1,200	1,220			1,220	3,400	3,400		3,400	225	225			225	
19-Apr-05	6,822				6,822	766	1,200	1,220			1,220	3,400	3,400		3,400	225	225			225	
20-Apr-05	6,817				6,817	760	1,200	1,220			1,220	3,400	3,400		3,400	225	225			225	
21-Apr-05	6,811				6,811	755	1,200	1,220			1,220	3,400	3,400		3,400	225	225			225	
22-Apr-05	6,805				6,805	749	1,200	1,220			1,220	3,400	3,400		3,400	225	225			225	
23-Apr-05	6,800				6,800	743	1,200	1,220			1,220	3,400	3,400		3,400	225	225			225	
24-Apr-05	6,794				6,794	738	1,200	1,220			1,220	3,400	3,400		3,400	225	225			225	
25-Apr-05	6,788				6,788	732	1,200	1,220			1,220	3,400	3,400		3,400	225	225			225	
26-Apr-05	6,783				6,783	726	1,200	1,220			1,220	3,400	3,400		3,400	225	225			225	
27-Apr-05	6,777				6,777	721	1,200	1,220			1,220	3,400	3,400		3,400	225	225			225	
28-Apr-05	6,771				6,771	715	1,200	1,220	0	0	1,220	3,400	3,400		3,400	225	225			225	
29-Apr-05	6,766				6,766	709	1,200	1,220	0	0	1,220	2,700	2,700	0	2,700	1,500	1,500	0	0	1,500	
30-Apr-05	6,760				6,760	704	1,200	1,220	0	0	1,220	2,700	2,700	0	2,700	1,500	1,500	0	0	1,500	
01-May-05	7,329	0	0	0.00	7,329	698	1,200	1,180	0	0	1,180	2,700	2,700	0	2,700	1,500	1,500	0	0	1,500	
02-May-05	7,324	0	0	0.00	7,324	692	1,200	1,180	0	0	1,180	2,700	2,700	0	2,700	1,500	1,500	0	0	1,500	
03-May-05	7,318	0	0	0.00	7,318	687	1,200	1,180	0	0	1,180	2,700	2,700	0	2,700	1,500	1,500	0	0	1,500	
04-May-05	7,272	0	0	0.00	7,272	681	1,200	1,180	0	0	1,180	2,700	2,700	0	2,700	1,500	1,500	0	0	1,500	
05-May-05	7,267	0	0	0.00	7,267	675	1,200	1,180	0	0	1,180	2,700	2,700	0	2,700	1,500	1,500	0	0	1,500	
06-May-05	7,261	0	0	0.00	7,261	670	1,200	1,180	0	0	1,180	2,700	2,700	0	2,700	1,500	1,500	0	0	1,500	
07-May-05	7,255	0	0	0.00	7,255	664	1,200	1,180	0	0	1,180	2,700	2,700	0	2,700	1,500	1,500	0	0	1,500	
08-May-05	7,250	0	0	0.00	7,250	658	1,200	1,180	0	0	1,180	2,700	2,700	0	2,700	1,500	1,500	0	0	1,500	
09-May-05	7,244	0	0	0.00	7,244	653	1,200	1,180	0	0	1,180	2,700	2,700	0	2,700	1,500	1,500	0	0	1,500	
10-May-05	7,238	0	0	0.00	7,238	647	1,200	1,180	0	0	1,180	2,700	2,700	0	2,700	1,500	1,500	0	0	1,500	
11-May-05	7,233	0	0	0.00	7,233	641	1,200	1,180	0	0	1,180	2,700	2,700	0	2,700	1,500	1,500	0	0	1,500	
12-May-05	7,227	0	0	0.00	7,227	636	1,200	1,180	0	0	1,180	2,700	2,700	0	2,700	1,500	1,500	0	0	1,500	
13-May-05	7,221	0	0	0.00	7,221	630	1,200	1,180	0	0	1,180	2,700	2,700	0	2,700	1,500	1,500	0	0	1,500	
14-May-05	7,216	0	0	0.00	7,216	625	1,200	1,180	0	0	1,180	2,700	2,700	0	2,700	1,500	1,500	0	0	1,500	
15-May-05	7,210	0	0	0.00	7,210	620	1,200	1,180	0	0	1,180	2,700	2,700	0	2,700	1,500	1,500	0	0	1,500	
16-May-05	7,205	0	0	0.00	7,205	615	1,200	1,180	0	0	1,180	2,700	2,700	0	2,700	1,500	1,500	0	0	1,500	
17-May-05	7,200	0	0	0.00	7,200	610	1,200	1,180	0	0	1,180	2,700	2,700	0	2,700	1,500	1,500	0	0	1,500	
18-May-05	7,195	0	0	0.00	7,195	605	1,200	1,180	0	0	1,180	2,700	2,700	0	2,700	1,500	1,500	0	0	1,500	
19-May-05	7,190	0	0	0.00	7,190	600	1,200	1,180	0	0	1,180	2,700	2,700	0	2,700	1,500	1,500	0	0	1,500	
20-May-05	7,185	0	0	0.00	7,185	595	1,200	1,180	0	0	1,180	2,700	2,700	0	2,700	1,500	1,500	0	0	1,500	
21-May-05	7,180	0	0	0.00	7,180	590	1,200	1,180	0	0	1,180	2,700	2,700	0	2,700	1,500	1,500	0	0	1,500	
22-May-05	7,175	0	0	0.00	7,175	585	1,200	1,180	0	0	1,										

**Appendix A-1, Table 5**

2005 VAMP DAILY OPERATION PLAN

April 5, 2005 (A) • Low

Target Flow Period: May 1 - May 31 • Flow Target: greater than 7,000 cfs

**Bold Numbers: observed real-time mean daily flows**

Date	San Joaquin River near Vernalis					SJR above Merced R. (2 day lag)	Engaged Flow above Vernalis (cfs)	Merced River at Cresssey				Tuolumne River at LaGrange				Stanislaus R blw Goodwin					Maintain Priority Flow Level M=Merced T=Tuol. S=Stan.
	Existing Flow	VAMP Suppl. Flow	Other Suppl. Flow	Cum. VAMP Suppl. Flow	VAMP Flow			Existing Flow	MelD VAMP Suppl. Flow	Exch Contr VAMP Suppl. Flow	VAMP Flow (3 day lag)	Existing Flow - base FERC Volume	Existing Flow - Adjusted FERC Pulse	VAMP Suppl. Flow	VAMP Flow (2 day lag)	Existing Flow - Base	Existing Flow - reshaped	VAMP Suppl. Flow	Other Suppl. Flow	VAMP Flow (2-day lag)	
	(cfs)	(cfs)	(cfs)	(TAF)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)		
15-Mar-05	6,260				6,260	1,278	1,183	285		285	3,140	3,140	3,140	229	229			229			
16-Mar-05	6,180				6,180	1,234	1,201	275		275	3,140	3,140	3,140	229	229			229			
17-Mar-05	6,040				6,040	1,181	1,110	276		276	3,120	3,120	3,120	229	229			229			
18-Mar-05	5,820				5,820	1,163	932	274		274	3,150	3,150	3,150	229	229			229			
19-Mar-05	5,800				5,800	1,163	995	292		292	3,190	3,190	3,190	228	228			228			
20-Mar-05	5,830				5,830	1,151	1,012	322		322	3,170	3,170	3,170	226	226			226			
21-Mar-05	5,550				5,550	1,246	995	335		335	3,160	3,160	3,160	226	226			226			
22-Mar-05	5,880				5,880	1,535	1,041	356		356	3,120	3,120	3,120	245	245			245			
23-Mar-05	6,540				6,540	1,502	1,586	1,774		1,774	3,170	3,170	3,170	232	232			232			
24-Mar-05	8,230				8,230	1,789	2,995	1,769		1,769	4,230	4,230	4,230	301	301			301			
25-Mar-05	9,220				9,220	2,881	3,960	1,532		1,532	5,810	5,810	5,810	611	611			611			
26-Mar-05	10,200				10,200	3,265	2,106	2,147		2,147	6,230	6,230	6,230	607	607			607			
27-Mar-05	11,700				11,700	3,095	629	4,145		4,145	6,240	6,240	6,240	610	610			610			
28-Mar-05	12,700				12,700	2,371	1,066	5,695		5,695	6,120	6,120	6,120	604	604			604			
29-Mar-05	13,500				13,500	2,364	1,408	5,451		5,451	6,440	6,440	6,440	603	603			603			
30-Mar-05	14,000				14,000	2,513	760	5,232		5,232	6,660	6,660	6,660	400	400			400			
31-Mar-05	14,300				14,300	2,378	-802	4,717		4,717	6,660	6,660	6,660	229	229			229			
01-Apr-05	14,400				14,400	2,156	-624	4,604		4,604	7,230	7,230	7,230	229	229			229			
02-Apr-05	14,300				14,300	1,906	-199	4,164		4,164	6,860	6,860	6,860	229	229			229			
03-Apr-05	14,400				14,400	1,676	68	4,076		4,076	7,070	7,070	7,070	229	229			229			
04-Apr-05	14,300				14,300	1,282	701	4,074		4,074	7,360	7,360	7,360	226	226			226			
05-Apr-05	14,139				14,139	1,217	1,000	3,700		3,700	7,200	7,200	7,200	225	225			225			
06-Apr-05	13,744				13,744	1,153	800	3,200		3,200	6,500	6,500	6,500	225	225			225			
07-Apr-05	13,316				13,316	1,088	600	2,500		2,500	5,000	5,000	5,000	225	225			225			
08-Apr-05	12,178				12,178	1,023	600	2,500		2,500	4,000	4,000	4,000	225	225			225			
09-Apr-05	10,113				10,113	959	600	2,500		2,500	4,000	4,000	4,000	225	225			225			
10-Apr-05	8,348				8,348	894	600	2,500		2,500	4,000	4,000	4,000	225	225			225			
11-Apr-05	8,284				8,284	829	600	2,500		2,500	4,000	4,000	4,000	225	225			225			
12-Apr-05	8,219				8,219	765	600	2,500		2,500	4,000	4,000	4,000	225	225			225			
13-Apr-05	8,154				8,154	700	600	2,500		2,500	4,000	4,000	4,000	225	225			225			
14-Apr-05	8,090				8,090	695	600	2,500		2,500	4,000	4,000	4,000	225	225			225			
15-Apr-05	8,025				8,025	690	600	2,500		2,500	4,000	4,000	4,000	225	225			225			
16-Apr-05	8,020				8,020	684	600	2,500		2,500	4,000	4,000	4,000	225	225			225			
17-Apr-05	8,015				8,015	679	600	2,500		2,500	4,000	4,000	4,000	225	225			225			
18-Apr-05	8,009				8,009	674	600	2,500		2,500	4,000	4,000	4,000	225	225			225			
19-Apr-05	8,004				8,004	669	600	2,500		2,500	4,000	4,000	4,000	225	225			225			
20-Apr-05	7,999				7,999	663	600	2,500		2,500	4,000	4,000	4,000	225	225			225			
21-Apr-05	7,994				7,994	658	600	2,500		2,500	4,000	4,000	4,000	225	225			225			
22-Apr-05	7,988				7,988	653	600	2,500		2,500	4,000	4,000	4,000	225	225			225			
23-Apr-05	7,983				7,983	648	600	2,500		2,500	4,000	4,000	4,000	225	225			225			
24-Apr-05	7,978				7,978	642	600	2,500		2,500	4,000	4,000	4,000	225	225			225			
25-Apr-05	7,973				7,973	637	600	2,500		2,500	4,000	4,000	4,000	225	225			225			
26-Apr-05	7,967				7,967	632	600	2,500		2,500	4,000	4,000	4,000	225	225			225			
27-Apr-05	7,962				7,962	627	600	2,500		2,500	4,000	4,000	4,000	225	225			225			
28-Apr-05	7,957				7,957	622	600	2,500	0	0	4,000	4,000	4,000	225	225			225			
29-Apr-05	7,952				7,952	616	600	2,500	0	0	3,700	3,700	0	3,700	1,500	1,500	0	0	1,500		
30-Apr-05	7,947				7,947	611	600	2,500	0	0	3,700	3,700	0	3,700	1,500	1,500	0	0	1,500		
01-May-05	8,916	0	0	0.00	8,916	606	600	2,500	0	0	3,700	3,700	0	3,700	1,500	1,500	0	0	1,500		
02-May-05	8,911	0	0	0.00	8,911	601	600	2,500	0	0	3,700	3,700	0	3,700	1,500	1,500	0	0	1,500		
03-May-05	8,906	0	0	0.00	8,906	595	600	2,500	0	0	3,700	3,700	0	3,700	1,500	1,500	0	0	1,500		
04-May-05	8,901	0	0	0.00	8,901	590	600	2,500	0	0	3,700	3,700	0	3,700	1,500	1,500	0	0	1,500		
05-May-05	8,895	0	0	0.00	8,895	585	600	2,500	0	0	3,700	3,700	0	3,700	1,500	1,500	0	0	1,500		
06-May-05	8,890	0	0	0.00	8,890	580	600	2,500	0	0	3,700	3,700	0	3,700	1,500	1,500	0	0	1,500		
07-May-05	8,885	0	0	0.00	8,885	574	600	2,500	0	0	3,700	3,700	0	3,700	1,500	1,500	0	0	1,500		
08-May-05	8,880	0	0	0.00	8,880	569	600	2,500	0	0	3,700	3,700	0	3,700	1,500	1,500	0	0	1,500		
09-May-05	8,874	0	0	0.00	8,874	564	600	2,500	0	0	3,700	3,700	0	3,700	1,500	1,500	0	0	1,500		
10-May-05	8,869	0	0	0.00	8,869	559	600	2,500	0	0	3,700	3,700	0	3,700	1,500	1,500	0	0	1,500		
11-May-05	8,864	0	0	0.00	8,864	553	600	2,500	0	0	3,700	3,700	0	3,700	1,500	1,500	0	0	1,500		
12-May-05	8,859	0	0	0.00	8,859	548	600	2,500	0	0	3,700	3,700	0	3,700	1,500	1,500	0	0	1,500		
13-May-05	8,853	0	0	0.00	8,853	543	600	2,500	0	0	3,700	3,700	0	3,700	1,500	1,500	0	0	1,500		
14-May-05	8,848	0	0	0.00	8,848	538	600	2,500	0	0	3,700	3,700	0	3,700	1,500	1,500	0	0	1,500		
15-May-05	8,843	0	0	0.00	8,843	533	600	2,500	0	0	3,700	3,700	0	3,700	1,500	1,500	0	0	1,500		
16-May-05	8,838	0	0	0.00	8,838	528	600	2,500	0	0	3,700	3,700	0	3,700	1,500	1,500	0	0	1,500		
17-May-05	8,833	0	0	0.00	8,833	523	600	2,500	0	0	3,700	3,700	0	3,700	1,500	1,500	0	0	1,500		
18-May-05	8,828	0	0	0.00	8,828	518	600	2,500	0	0	3,700	3,700	0	3,700	1,500	1,500	0	0	1,500		
19-May-05	8,823	0	0	0.00	8,823	513	600	2,500	0	0	3,700	3,700	0	3,700	1,500	1,500	0	0	1,500		
20-May-05	8,818	0	0	0.00	8,818	508	600	2,500	0	0	3,700	3,700	0	3,700	1,500	1,500	0	0	1,500		
21-May-05	8,813	0	0	0.00	8,813	503	600	2,500	0	0	3,700	3,700	0	3,700	1,500	1,500	0	0	1,500		
22-May-05	8,808	0	0	0.00	8,808	498	600	2,500	0	0	3,700	3,700	0	3,700	1,500	1,500	0	0	1,500		
23-May-05	8,803	0	0	0.00	8,803	493	600	2,500	0	0	3,700	3,700	0	3,700	1,500	1,500	0	0	1,500		
24-May-05	8,798	0	0	0.00	8,798	488	600	2,500	0</												

### Appendix A-1, Table 6

#### 2005 VAMP DAILY OPERATION PLAN

April 5, 2005 (B) • High

Target Flow Period: May 1 - May 31 • Flow Target: greater than 7,000 cfs

**Bold Numbers: observed real-time mean daily flows**

Date	San Joaquin River near Vernalis						Merced River at Cresssey					Tuolumne River at LaGrange				Stanislaus R blw Goodwin					Maintain Priority Flow Level M=Merced T=Tuol. S=Stan.
	Existing Flow	VAMP Suppl. Flow	Other Suppl. Flow	Cum. VAMP Suppl. Flow	VAMP Flow	SJR above Merced R. (2 day lag)	Ungaged Flow above Vernalis	Existing Flow	MelD VAMP Suppl. Flow	Exch Contr VAMP Suppl. Flow	VAMP Flow (3 day lag)	Existing Flow - base FERC Volume	Existing Flow - Adjusted FERC Pulse	VAMP Suppl. Flow	VAMP Flow (2 day lag)	Existing Flow - Base	Existing Flow - reshaped	VAMP Suppl. Flow	Other Suppl. Flow	VAMP Flow (2-day lag)	
	(cfs)	(cfs)	(cfs)	(TAF)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	
15-Mar-05	<b>6,260</b>				<b>6,260</b>	<b>1,278</b>	<b>1,183</b>	<b>285</b>			<b>285</b>	<b>3,140</b>	<b>3,140</b>	<b>3,140</b>	<b>229</b>	<b>229</b>			<b>229</b>		
16-Mar-05	<b>6,180</b>				<b>6,180</b>	<b>1,234</b>	<b>1,201</b>	<b>275</b>			<b>275</b>	<b>3,140</b>	<b>3,140</b>	<b>3,140</b>	<b>229</b>	<b>229</b>			<b>229</b>		
17-Mar-05	<b>6,040</b>				<b>6,040</b>	<b>1,181</b>	<b>1,110</b>	<b>276</b>			<b>276</b>	<b>3,120</b>	<b>3,120</b>	<b>3,120</b>	<b>229</b>	<b>229</b>			<b>229</b>		
18-Mar-05	<b>5,820</b>				<b>5,820</b>	<b>1,163</b>	<b>932</b>	<b>274</b>			<b>274</b>	<b>3,150</b>	<b>3,150</b>	<b>3,150</b>	<b>229</b>	<b>229</b>			<b>229</b>		
19-Mar-05	<b>5,800</b>				<b>5,800</b>	<b>1,163</b>	<b>995</b>	<b>292</b>			<b>292</b>	<b>3,190</b>	<b>3,190</b>	<b>3,190</b>	<b>228</b>	<b>228</b>			<b>228</b>		
20-Mar-05	<b>5,830</b>				<b>5,830</b>	<b>1,151</b>	<b>1,012</b>	<b>322</b>			<b>322</b>	<b>3,170</b>	<b>3,170</b>	<b>3,170</b>	<b>226</b>	<b>226</b>			<b>226</b>		
21-Mar-05	<b>5,850</b>				<b>5,850</b>	<b>1,246</b>	<b>995</b>	<b>335</b>			<b>335</b>	<b>3,160</b>	<b>3,160</b>	<b>3,160</b>	<b>226</b>	<b>226</b>			<b>226</b>		
22-Mar-05	<b>5,880</b>				<b>5,880</b>	<b>1,535</b>	<b>1,041</b>	<b>356</b>			<b>356</b>	<b>3,120</b>	<b>3,120</b>	<b>3,120</b>	<b>245</b>	<b>245</b>			<b>245</b>		
23-Mar-05	<b>6,540</b>				<b>6,540</b>	<b>1,502</b>	<b>1,586</b>	<b>1,774</b>			<b>1,774</b>	<b>3,170</b>	<b>3,170</b>	<b>3,170</b>	<b>232</b>	<b>232</b>			<b>232</b>		
24-Mar-05	<b>8,230</b>				<b>8,230</b>	<b>1,789</b>	<b>2,995</b>	<b>1,769</b>			<b>1,769</b>	<b>4,230</b>	<b>4,230</b>	<b>4,230</b>	<b>301</b>	<b>301</b>			<b>301</b>		
25-Mar-05	<b>9,220</b>				<b>9,220</b>	<b>2,881</b>	<b>3,960</b>	<b>1,532</b>			<b>1,532</b>	<b>5,810</b>	<b>5,810</b>	<b>5,810</b>	<b>611</b>	<b>611</b>			<b>611</b>		
26-Mar-05	<b>10,200</b>				<b>10,200</b>	<b>3,265</b>	<b>2,106</b>	<b>2,147</b>			<b>2,147</b>	<b>6,230</b>	<b>6,230</b>	<b>6,230</b>	<b>607</b>	<b>607</b>			<b>607</b>		
27-Mar-05	<b>11,700</b>				<b>11,700</b>	<b>3,095</b>	<b>629</b>	<b>4,145</b>			<b>4,145</b>	<b>6,240</b>	<b>6,240</b>	<b>6,240</b>	<b>610</b>	<b>610</b>			<b>610</b>		
28-Mar-05	<b>12,700</b>				<b>12,700</b>	<b>2,371</b>	<b>1,066</b>	<b>5,695</b>			<b>5,695</b>	<b>6,120</b>	<b>6,120</b>	<b>6,120</b>	<b>604</b>	<b>604</b>			<b>604</b>		
29-Mar-05	<b>13,500</b>				<b>13,500</b>	<b>2,364</b>	<b>1,408</b>	<b>5,451</b>			<b>5,451</b>	<b>6,440</b>	<b>6,440</b>	<b>6,440</b>	<b>603</b>	<b>603</b>			<b>603</b>		
30-Mar-05	<b>14,000</b>				<b>14,000</b>	<b>2,513</b>	<b>760</b>	<b>5,232</b>			<b>5,232</b>	<b>6,660</b>	<b>6,660</b>	<b>6,660</b>	<b>400</b>	<b>400</b>			<b>400</b>		
31-Mar-05	<b>14,300</b>				<b>14,300</b>	<b>2,378</b>	<b>-802</b>	<b>4,717</b>			<b>4,717</b>	<b>6,660</b>	<b>6,660</b>	<b>6,660</b>	<b>229</b>	<b>229</b>			<b>229</b>		
01-Apr-05	<b>14,400</b>				<b>14,400</b>	<b>2,156</b>	<b>-624</b>	<b>4,604</b>			<b>4,604</b>	<b>7,230</b>	<b>7,230</b>	<b>7,230</b>	<b>229</b>	<b>229</b>			<b>229</b>		
02-Apr-05	<b>14,300</b>				<b>14,300</b>	<b>1,906</b>	<b>-199</b>	<b>4,164</b>			<b>4,164</b>	<b>6,860</b>	<b>6,860</b>	<b>6,860</b>	<b>229</b>	<b>229</b>			<b>229</b>		
03-Apr-05	<b>14,400</b>				<b>14,400</b>	<b>1,676</b>	<b>68</b>	<b>4,076</b>			<b>4,076</b>	<b>7,070</b>	<b>7,070</b>	<b>7,070</b>	<b>229</b>	<b>229</b>			<b>229</b>		
04-Apr-05	<b>14,300</b>				<b>14,300</b>	<b>1,282</b>	<b>701</b>	<b>4,074</b>			<b>4,074</b>	<b>7,360</b>	<b>7,360</b>	<b>7,360</b>	<b>226</b>	<b>226</b>			<b>226</b>		
05-Apr-05	14,139				14,139	1,217	1,000	3,700			3,700	7,200	7,200	7,200	225	225			225		
06-Apr-05	14,144				14,144	1,153	1,200	3,200			3,200	6,500	6,500	6,500	225	225			225		
07-Apr-05	13,916				13,916	1,088	1,200	2,500			2,500	5,000	5,000	5,000	225	225			225		
08-Apr-05	12,778				12,778	1,023	1,200	2,500			2,500	4,000	4,000	4,000	225	225			225		
09-Apr-05	10,713				10,713	959	1,200	2,500			2,500	4,000	4,000	4,000	225	225			225		
10-Apr-05	8,948				8,948	894	1,200	2,500			2,500	4,000	4,000	4,000	225	225			225		
11-Apr-05	8,884				8,884	829	1,200	2,500			2,500	4,000	4,000	4,000	225	225			225		
12-Apr-05	8,819				8,819	765	1,200	2,500			2,500	4,000	4,000	4,000	225	225			225		
13-Apr-05	8,754				8,754	700	1,200	2,500			2,500	4,000	4,000	4,000	225	225			225		
14-Apr-05	8,690				8,690	695	1,200	2,500			2,500	4,000	4,000	4,000	225	225			225		
15-Apr-05	8,625				8,625	690	1,200	2,500			2,500	4,000	4,000	4,000	225	225			225		
16-Apr-05	8,620				8,620	684	1,200	2,500			2,500	4,000	4,000	4,000	225	225			225		
17-Apr-05	8,615				8,615	679	1,200	2,500			2,500	4,000	4,000	4,000	225	225			225		
18-Apr-05	8,609				8,609	674	1,200	2,500			2,500	4,000	4,000	4,000	225	225			225		
19-Apr-05	8,604				8,604	669	1,200	2,500			2,500	4,000	4,000	4,000	225	225			225		
20-Apr-05	8,599				8,599	663	1,200	2,500			2,500	4,000	4,000	4,000	225	225			225		
21-Apr-05	8,594				8,594	658	1,200	2,500			2,500	4,000	4,000	4,000	225	225			225		
22-Apr-05	8,588				8,588	653	1,200	2,500			2,500	4,000	4,000	4,000	225	225			225		
23-Apr-05	8,583				8,583	648	1,200	2,500			2,500	4,000	4,000	4,000	225	225			225		
24-Apr-05	8,578				8,578	642	1,200	2,500			2,500	4,000	4,000	4,000	225	225			225		
25-Apr-05	8,573				8,573	637	1,200	2,500			2,500	4,000	4,000	4,000	225	225			225		
26-Apr-05	8,567				8,567	632	1,200	2,500			2,500	4,000	4,000	4,000	225	225			225		
27-Apr-05	8,562				8,562	627	1,200	2,500			2,500	4,000	4,000	4,000	225	225			225		
28-Apr-05	8,557				8,557	622	1,200	2,500	0	0	2,500	4,000	4,000	4,000	225	225			225		
29-Apr-05	8,552				8,552	616	1,200	2,500	0	0	2,500	3,700	3,700	0	3,700	1,500	1,500	0	0	1,500	
30-Apr-05	8,547				8,547	611	1,200	2,500	0	0	2,500	3,700	3,700	0	3,700	1,500	1,500	0	0	1,500	
01-May-05	9,516	0	0	0.00	9,516	606	1,200	2,500	0	0	2,500	3,700	3,700	0	3,700	1,500	1,500	0	0	1,500	
02-May-05	9,511	0	0	0.00	9,511	601	1,200	2,500	0	0	2,500	3,700	3,700	0	3,700	1,500	1,500	0	0	1,500	
03-May-05	9,506	0	0	0.00	9,506	595	1,200	2,500	0	0	2,500	3,700	3,700	0	3,700	1,500	1,500	0	0	1,500	
04-May-05	9,501	0	0	0.00	9,501	590	1,200	2,500	0	0	2,500	3,700	3,700	0	3,700	1,500	1,500	0	0	1,500	
05-May-05	9,495	0	0	0.00	9,495	585	1,200	2,500	0	0	2,500	3,700	3,700	0	3,700	1,500	1,500	0	0	1,500	
06-May-05	9,490	0	0	0.00	9,490	580	1,200	2,500	0	0	2,500	3,700	3,700	0	3,700	1,500	1,500	0	0	1,500	
07-May-05	9,485	0	0	0.00	9,485	574	1,200	2,500	0	0	2,500	3,700	3,700	0	3,700	1,500	1,500	0	0	1,500	
08-May-05	9,480	0	0	0.00	9,480	569	1,200	2,500	0	0	2,500	3,700	3,700	0	3,700	1,500	1,500	0	0	1,500	
09-May-05	9,474	0	0	0.00	9,474	564	1,200	2,500	0	0	2,500	3,700	3,700	0	3,700	1,500	1,500	0	0	1,500	
10-May-05	9,469	0	0	0.00	9,469	559	1,200	2,500	0	0	2,500	3,700	3,700	0	3,700	1,500	1,500	0	0	1,500	
11-May-05	9,464	0	0	0.00	9,464	553	1,200	2,500	0	0	2,500	3,700	3,700	0	3,700	1,500	1,500	0	0	1,500	
12-May-05	9,459	0	0	0.00	9,459	548	1,200	2,500	0	0	2,500	3,700	3,700	0	3,700	1,500	1,500	0	0	1,500	
13-May-05	9,453	0	0	0.00	9,453	543	1,200	2,500	0	0	2,500	3,700	3,700	0	3,700	1,500	1,500	0	0	1,500	
14-May-05	9,448	0	0	0.00	9,448	538	1,200	2,500	0	0	2,500	3,700	3,700	0	3,700	1,500	1,500	0	0	1,500	
15-May-05	9,443	0	0	0.00	9,443	533	1,200	2,500	0	0	2,500	3,700									

**Appendix A-1, Table 7**  
**2005 VAMP DAILY OPERATION PLAN**  
 April 13, 2005 (A) • Low  
 Target Flow Period: May 1 - May 31 • Flow Target: greater than 7,000 cfs

**Bold Numbers: observed real-time mean daily flows**

Date	San Joaquin River near Vernalis					Merced River at Cresssey					Tuolumne River at LaGrange				Stanislaus R blw Goodwin				Maintain Priority Flow Level M=Merced T=Tuol. S=Stan.		
	Existing Flow	VAMP Suppl. Flow	Other Suppl. Flow	Cum. VAMP Suppl. Flow	VAMP Flow	SJR above Merced R. (2 day lag)	Ungaged Flow above Vernalis	Existing Flow	MeID VAMP Suppl. Flow	Exch Contr VAMP Suppl. Flow	VAMP Flow (3 day lag)	Existing Flow - base FERC Volume	Existing Flow - Adjusted FERC Pulse	VAMP Suppl. Flow	VAMP Flow (2 day lag)	Existing Flow - Base	Existing Flow - reshaped	VAMP Suppl. Flow		Other Suppl. Flow	VAMP Flow (2-day lag)
	(cfs)	(cfs)	(cfs)	(TAF)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	
15-Mar-05	6,260				6,260	1,238	1,223	285			285	3,140	3,140	3,140	229	229			229		
16-Mar-05	6,180				6,180	1,194	1,241	275			275	3,140	3,140	3,140	229	229			229		
17-Mar-05	6,040				6,020	1,141	1,130	276			276	3,120	3,120	3,120	229	229			229		
18-Mar-05	5,790				5,790	1,123	942	274			274	3,150	3,150	3,150	229	229			229		
19-Mar-05	5,800				5,800	1,123	1,035	292			292	3,190	3,190	3,190	228	228			228		
20-Mar-05	5,830				5,830	1,111	1,052	322			322	3,170	3,170	3,170	226	226			226		
21-Mar-05	5,850				5,850	1,206	1,035	335			335	3,160	3,160	3,160	226	226			226		
22-Mar-05	5,850				5,850	1,495	1,051	356			356	3,120	3,120	3,120	245	245			245		
23-Mar-05	6,570				6,570	1,452	1,656	1,774			1,774	3,170	3,170	3,170	232	232			232		
24-Mar-05	8,390				8,390	1,729	3,195	1,774			1,769	4,230	4,230	4,230	301	301			301		
25-Mar-05	9,460				9,460	2,811	4,250	1,532			1,532	5,810	5,810	5,810	611	611			611		
26-Mar-05	10,500				10,500	3,185	2,466	2,147			2,147	6,230	6,230	6,230	607	607			607		
27-Mar-05	12,100				12,100	3,005	1,099	4,145			4,145	6,240	6,240	6,240	610	610			610		
28-Mar-05	13,300				13,300	2,261	1,746	5,695			5,695	6,120	6,120	6,120	604	604			604		
29-Mar-05	14,100				14,100	2,224	2,098	5,451			5,451	6,440	6,440	6,440	603	603			603		
30-Mar-05	14,600				14,600	2,393	1,470	5,232			5,232	6,660	6,660	6,660	400	400			400		
31-Mar-05	15,000				15,000	2,298	38	4,717			4,717	6,660	6,660	6,660	229	229			229		
01-Apr-05	15,100				15,100	2,086	196	4,604			4,604	7,230	7,230	7,230	229	229			229		
02-Apr-05	15,000				15,000	1,846	581	4,164			4,164	6,860	6,860	6,860	229	229			229		
03-Apr-05	15,000				15,000	1,616	738	4,076			4,076	7,070	7,070	7,070	229	229			229		
04-Apr-05	15,000				15,000	1,232	1,461	4,074			4,074	7,360	7,360	7,360	226	226			226		
05-Apr-05	14,700				14,700	1,009	1,621	3,690			3,690	7,200	7,200	7,200	229	229			229		
06-Apr-05	14,300				14,300	904	1,406	3,575			3,575	5,600	5,600	5,600	229	229			229		
07-Apr-05	13,400				13,400	719	888	3,404			3,404	5,110	5,110	5,110	226	226			226		
08-Apr-05	12,000				12,000	616	1,577	3,385			3,385	4,630	4,630	4,630	227	227			227		
09-Apr-05	11,400				11,400	582	1,770	3,349			3,349	4,090	4,090	4,090	225	225			225		
10-Apr-05	10,700				10,700	618	1,823	3,332			3,332	4,160	4,160	4,160	229	229			229		
11-Apr-05	10,300				10,300	615	2,018	3,286			3,286	4,910	4,910	4,910	232	232			232		
12-Apr-05	10,300				10,300	697	1,944	2,807			2,807	5,020	5,020	5,020	226	226			226		
13-Apr-05	10,789				10,789	700	1,700	2,500			2,500	4,000	4,000	4,000	225	225			225		
14-Apr-05	10,429				10,429	695	1,200	2,500			2,500	4,000	4,000	4,000	225	225			225		
15-Apr-05	8,632				8,632	690	900	2,500			2,500	4,000	4,000	4,000	225	225			225		
16-Apr-05	8,020				8,020	684	600	2,500			2,500	3,600	3,600	3,600	225	225			225		
17-Apr-05	8,015				8,015	679	600	2,500			2,500	3,600	3,600	3,600	225	225			225		
18-Apr-05	7,609				7,609	674	600	2,500			2,500	3,600	3,600	3,600	225	225			225		
19-Apr-05	7,604				7,604	669	600	2,500			2,500	3,600	3,600	3,600	225	225			225		
20-Apr-05	7,599				7,599	663	600	2,500			2,500	3,600	3,600	3,600	225	225			225		
21-Apr-05	7,594				7,594	658	600	2,500			2,500	3,600	3,600	3,600	225	225			225		
22-Apr-05	7,588				7,588	653	600	2,500			2,500	3,600	3,600	3,600	225	225			225		
23-Apr-05	7,583				7,583	648	600	2,500			2,500	3,600	3,600	3,600	225	225			225		
24-Apr-05	7,578				7,578	642	600	2,500			2,500	3,600	3,600	3,600	225	225			225		
25-Apr-05	7,573				7,573	637	600	2,500			2,500	3,600	3,600	3,600	225	225			225		
26-Apr-05	7,567				7,567	632	600	2,500			2,500	3,600	3,600	3,600	225	225			225		
27-Apr-05	7,562				7,562	627	600	2,500			2,500	3,600	3,600	3,600	225	225			225		
28-Apr-05	7,557				7,557	622	600	1,625	220	0	1,845	3,000	3,000	3,000	225	225			225		
29-Apr-05	7,552				7,552	616	600	1,625	220	0	1,845	2,500	2,500	0	2,500	1,500	1,500	0	0	1,500	
30-Apr-05	6,947				6,947	611	600	1,625	220	0	1,845	2,500	2,500	0	2,500	1,500	1,500	0	0	1,500	
01-May-05	6,841	220	0	0.44	7,061	606	600	1,625	220	0	1,845	2,500	2,500	0	2,500	1,500	1,500	0	0	1,500	
02-May-05	6,836	220	0	0.87	7,056	601	600	1,625	220	0	1,845	2,500	2,500	0	2,500	1,500	1,500	0	0	1,500	
03-May-05	6,831	220	0	1.31	7,051	595	600	1,625	220	0	1,845	2,500	2,500	0	2,500	1,500	1,500	0	0	1,500	
04-May-05	6,826	220	0	1.75	7,046	590	600	1,625	220	0	1,845	2,500	2,500	0	2,500	1,500	1,500	0	0	1,500	
05-May-05	6,820	220	0	2.18	7,040	585	600	1,625	220	0	1,845	2,500	2,500	0	2,500	1,500	1,500	0	0	1,500	
06-May-05	6,815	220	0	2.62	7,035	580	600	1,625	220	0	1,845	2,500	2,500	0	2,500	1,500	1,500	0	0	1,500	
07-May-05	6,810	220	0	3.05	7,030	574	600	1,625	220	0	1,845	2,500	2,500	0	2,500	1,500	1,500	0	0	1,500	
08-May-05	6,805	220	0	3.49	7,025	569	600	1,625	220	0	1,845	2,500	2,500	0	2,500	1,500	1,500	0	0	1,500	
09-May-05	6,799	220	0	3.93	7,019	564	600	1,625	220	0	1,845	2,500	2,500	0	2,500	1,500	1,500	0	0	1,500	
10-May-05	6,794	220	0	4.36	7,014	559	600	1,625	220	0	1,845	2,500	2,500	0	2,500	1,500	1,500	0	0	1,500	
11-May-05	6,789	220	0	4.80	7,009	553	600	1,625	220	0	1,845	2,500	2,500	0	2,500	1,500	1,500	0	0	1,500	
12-May-05	6,784	220	0	5.24	7,004	548	600	1,625	220	0	1,845	2,500	2,500	0	2,500	1,500	1,500	0	0	1,500	
13-May-05	6,778	220	0	5.67	6,998	543	600	1,625	230	0	1,855	2,500	2,500	0	2,500	1,500	1,500	0	0	1,500	
14-May-05	6,773	220	0	6.11	6,993	538	600	1,625	230	0	1,855	2,500	2,500	0	2,500	1,500	1,500	0	0	1,500	
15-May-05	6,768	220	0	6.55	6,988	533	600	1,625	230	0	1,855	2,500	2,500	0	2,500	1,500	1,500	0	0	1,500	
16-May-05	6,763	230	0	7.00	6,993	528	600	1,625	230	0	1,855	2,500	2,500	0	2,500	1,500	1,500	0	0	1,500	
17-May-05	6,758	230	0	7.46	6,988	523	600	1,625	240	0	1,865	2,500	2,500	0	2,500	1,500	1,500	0	0	1,500	
18-May-05	6,753	230	0	7.91	6,983	518	600	1,625	260	0	1,885	2,500	2,500	0	2,500	1,500	1,500	0	0	1,500	
19-May-05	6,748	230	0	8.37	6,978	513	600	1,625	260	0	1,885	2,500	2,500	0	2,500	1,500	1,500	0	0	1,500	
20-May-05	6,743	240	0	8.85	6,983	508	600	1,625	260	0	1,885	2,500	2,500	0	2,500	1,500	1,500	0	0	1,500	
21-May-05	6,738	260	0	9.36	6,998	503	6														



**Appendix A-1, Table 8**  
 2005 VAMP DAILY OPERATION PLAN  
 April 13, 2005 • High

Target Flow Period: May 1 - May 31 • Flow Target: greater than 7,000 cfs

**Bold Numbers: observed real-time mean daily flows**

Date	San Joaquin River near Vernalis						Merced River at Cresssey					Tuolumne River at LaGrange				Stanislaus R blw Goodwin					Maintain Priority Flow Level M=Merced T=Tuol. S=Stan.
	Existing Flow	VAMP Suppl. Flow	Other Suppl. Flow	Cum. VAMP Suppl. Flow	VAMP Flow	SJR above Merced R. (2 day lag)	Ungaged Flow above Vernalis	Existing Flow	MelD VAMP Suppl. Flow	Exch Contr VAMP Suppl. Flow	VAMP Flow (3 day lag)	Existing Flow - base FERC Volume	Existing Flow - Adjusted FERC Pulse	VAMP Suppl. Flow	VAMP Flow (2 day lag)	Existing Flow - Base	Existing Flow - reshaped	VAMP Suppl. Flow	Other Suppl. Flow	VAMP Flow (2-day lag)	
	(cfs)	(cfs)	(cfs)	(TAF)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	
15-Mar-05	6,260				<b>6,260</b>	<b>1,238</b>	<b>1,223</b>	<b>285</b>			<b>285</b>	<b>3,140</b>	<b>3,140</b>	<b>3,140</b>	<b>229</b>	<b>229</b>			<b>229</b>		
16-Mar-05	6,180				<b>6,180</b>	<b>1,194</b>	<b>1,241</b>	<b>275</b>			<b>275</b>	<b>3,140</b>	<b>3,140</b>	<b>3,140</b>	<b>229</b>	<b>229</b>			<b>229</b>		
17-Mar-05	6,040				<b>6,040</b>	<b>1,141</b>	<b>1,130</b>	<b>276</b>			<b>276</b>	<b>3,120</b>	<b>3,120</b>	<b>3,120</b>	<b>229</b>	<b>229</b>			<b>229</b>		
18-Mar-05	5,790				<b>5,820</b>	<b>1,123</b>	<b>942</b>	<b>274</b>			<b>274</b>	<b>3,150</b>	<b>3,150</b>	<b>3,150</b>	<b>229</b>	<b>229</b>			<b>229</b>		
19-Mar-05	5,800				<b>5,800</b>	<b>1,123</b>	<b>1,035</b>	<b>292</b>			<b>292</b>	<b>3,190</b>	<b>3,190</b>	<b>3,190</b>	<b>228</b>	<b>228</b>			<b>228</b>		
20-Mar-05	5,830				<b>5,830</b>	<b>1,111</b>	<b>1,052</b>	<b>322</b>			<b>322</b>	<b>3,170</b>	<b>3,170</b>	<b>3,170</b>	<b>226</b>	<b>226</b>			<b>226</b>		
21-Mar-05	5,850				<b>5,850</b>	<b>1,206</b>	<b>1,035</b>	<b>335</b>			<b>335</b>	<b>3,160</b>	<b>3,160</b>	<b>3,160</b>	<b>226</b>	<b>226</b>			<b>226</b>		
22-Mar-05	5,850				<b>5,880</b>	<b>1,495</b>	<b>1,051</b>	<b>356</b>			<b>356</b>	<b>3,120</b>	<b>3,120</b>	<b>3,120</b>	<b>245</b>	<b>245</b>			<b>245</b>		
23-Mar-05	6,570				<b>6,540</b>	<b>1,452</b>	<b>1,656</b>	<b>1,774</b>			<b>1,774</b>	<b>3,170</b>	<b>3,170</b>	<b>3,170</b>	<b>232</b>	<b>232</b>			<b>232</b>		
24-Mar-05	8,390				<b>8,230</b>	<b>1,729</b>	<b>3,195</b>	<b>1,769</b>			<b>1,769</b>	<b>4,230</b>	<b>4,230</b>	<b>4,230</b>	<b>301</b>	<b>301</b>			<b>301</b>		
25-Mar-05	9,460				<b>9,220</b>	<b>2,811</b>	<b>4,250</b>	<b>1,532</b>			<b>1,532</b>	<b>5,810</b>	<b>5,810</b>	<b>5,810</b>	<b>611</b>	<b>611</b>			<b>611</b>		
26-Mar-05	10,500				<b>10,200</b>	<b>3,185</b>	<b>2,466</b>	<b>2,147</b>			<b>2,147</b>	<b>6,230</b>	<b>6,230</b>	<b>6,230</b>	<b>607</b>	<b>607</b>			<b>607</b>		
27-Mar-05	12,100				<b>11,700</b>	<b>3,005</b>	<b>1,099</b>	<b>4,145</b>			<b>4,145</b>	<b>6,240</b>	<b>6,240</b>	<b>6,240</b>	<b>610</b>	<b>610</b>			<b>610</b>		
28-Mar-05	<b>13,300</b>				<b>12,700</b>	<b>2,261</b>	<b>1,746</b>	<b>5,695</b>			<b>5,695</b>	<b>6,120</b>	<b>6,120</b>	<b>6,120</b>	<b>604</b>	<b>604</b>			<b>604</b>		
29-Mar-05	<b>14,100</b>				<b>13,500</b>	<b>2,224</b>	<b>2,098</b>	<b>5,451</b>			<b>5,451</b>	<b>6,440</b>	<b>6,440</b>	<b>6,440</b>	<b>603</b>	<b>603</b>			<b>603</b>		
30-Mar-05	<b>14,600</b>				<b>14,000</b>	<b>2,393</b>	<b>1,470</b>	<b>5,232</b>			<b>5,232</b>	<b>6,660</b>	<b>6,660</b>	<b>6,660</b>	<b>400</b>	<b>400</b>			<b>400</b>		
31-Mar-05	<b>15,000</b>				<b>14,300</b>	<b>2,298</b>	<b>38</b>	<b>4,717</b>			<b>4,717</b>	<b>6,660</b>	<b>6,660</b>	<b>6,660</b>	<b>229</b>	<b>229</b>			<b>229</b>		
01-Apr-05	<b>15,100</b>				<b>14,400</b>	<b>2,086</b>	<b>196</b>	<b>4,604</b>			<b>4,604</b>	<b>7,230</b>	<b>7,230</b>	<b>7,230</b>	<b>229</b>	<b>229</b>			<b>229</b>		
02-Apr-05	<b>15,000</b>				<b>14,300</b>	<b>1,846</b>	<b>581</b>	<b>4,164</b>			<b>4,164</b>	<b>6,860</b>	<b>6,860</b>	<b>6,860</b>	<b>229</b>	<b>229</b>			<b>229</b>		
03-Apr-05	<b>15,000</b>				<b>14,400</b>	<b>1,616</b>	<b>738</b>	<b>4,076</b>			<b>4,076</b>	<b>7,070</b>	<b>7,070</b>	<b>7,070</b>	<b>229</b>	<b>229</b>			<b>229</b>		
04-Apr-05	<b>15,000</b>				<b>14,300</b>	<b>1,232</b>	<b>1,461</b>	<b>4,074</b>			<b>4,074</b>	<b>7,360</b>	<b>7,360</b>	<b>7,360</b>	<b>226</b>	<b>226</b>			<b>226</b>		
05-Apr-05	<b>14,700</b>				<b>14,100</b>	<b>1,009</b>	<b>1,621</b>	<b>3,690</b>			<b>3,690</b>	<b>7,200</b>	<b>7,200</b>	<b>7,200</b>	<b>229</b>	<b>229</b>			<b>229</b>		
06-Apr-05	<b>14,300</b>				<b>13,700</b>	<b>904</b>	<b>1,406</b>	<b>3,575</b>			<b>3,575</b>	<b>5,600</b>	<b>5,600</b>	<b>5,600</b>	<b>229</b>	<b>229</b>			<b>229</b>		
07-Apr-05	<b>13,400</b>				<b>12,800</b>	<b>719</b>	<b>888</b>	<b>3,404</b>			<b>3,404</b>	<b>5,110</b>	<b>5,110</b>	<b>5,110</b>	<b>226</b>	<b>226</b>			<b>226</b>		
08-Apr-05	<b>12,000</b>				<b>12,000</b>	<b>616</b>	<b>1,577</b>	<b>3,385</b>			<b>3,385</b>	<b>4,630</b>	<b>4,630</b>	<b>4,630</b>	<b>227</b>	<b>227</b>			<b>227</b>		
09-Apr-05	<b>11,400</b>				<b>11,400</b>	<b>582</b>	<b>1,770</b>	<b>3,349</b>			<b>3,349</b>	<b>4,090</b>	<b>4,090</b>	<b>4,090</b>	<b>225</b>	<b>225</b>			<b>225</b>		
10-Apr-05	<b>10,700</b>				<b>10,700</b>	<b>618</b>	<b>1,823</b>	<b>3,332</b>			<b>3,332</b>	<b>4,160</b>	<b>4,160</b>	<b>4,160</b>	<b>229</b>	<b>229</b>			<b>229</b>		
11-Apr-05	<b>10,300</b>				<b>10,300</b>	<b>615</b>	<b>2,018</b>	<b>3,286</b>			<b>3,286</b>	<b>4,910</b>	<b>4,910</b>	<b>4,910</b>	<b>232</b>	<b>232</b>			<b>232</b>		
12-Apr-05	<b>10,300</b>				<b>10,300</b>	<b>697</b>	<b>1,944</b>	<b>2,807</b>			<b>2,807</b>	<b>5,020</b>	<b>5,020</b>	<b>5,020</b>	<b>226</b>	<b>226</b>			<b>226</b>		
13-Apr-05	10,789				10,789	700	1,700	2,500			2,500	4,000	4,000	4,000	225	225			225		
14-Apr-05	10,429				10,429	695	1,200	2,500			2,500	4,000	4,000	4,000	225	225			225		
15-Apr-05	8,932				8,932	690	1,200	2,500			2,500	4,000	4,000	4,000	225	225			225		
16-Apr-05	8,620				8,620	684	1,200	2,500			2,500	3,600	3,600	3,600	225	225			225		
17-Apr-05	8,615				8,615	679	1,200	2,500			2,500	3,600	3,600	3,600	225	225			225		
18-Apr-05	8,209				8,209	674	1,200	2,500			2,500	3,600	3,600	3,600	225	225			225		
19-Apr-05	8,204				8,204	669	1,200	2,500			2,500	3,600	3,600	3,600	225	225			225		
20-Apr-05	8,199				8,199	663	1,200	2,500			2,500	3,600	3,600	3,600	225	225			225		
21-Apr-05	8,194				8,194	658	1,200	2,500			2,500	3,600	3,600	3,600	225	225			225		
22-Apr-05	8,188				8,188	653	1,200	2,500			2,500	3,600	3,600	3,600	225	225			225		
23-Apr-05	8,183				8,183	648	1,200	2,500			2,500	3,600	3,600	3,600	225	225			225		
24-Apr-05	8,178				8,178	642	1,200	2,500			2,500	3,600	3,600	3,600	225	225			225		
25-Apr-05	8,173				8,173	637	1,200	2,500			2,500	3,600	3,600	3,600	225	225			225		
26-Apr-05	8,167				8,167	632	1,200	2,500			2,500	3,600	3,600	3,600	225	225			225		
27-Apr-05	8,162				8,162	627	1,200	2,500			2,500	3,600	3,600	3,600	225	225			225		
28-Apr-05	8,157				8,157	622	1,200	1,800	0	0	1,800	3,600	3,600	3,600	225	225			225		
29-Apr-05	8,152				8,152	616	1,200	1,800	0	0	1,800	3,100	3,100	0	3,100	1,500	1,500	0	0	1,500	
30-Apr-05	8,147				8,147	611	1,200	1,800	0	0	1,800	3,100	3,100	0	3,100	1,500	1,500	0	0	1,500	
01-May-05	8,216	0	0	0.00	8,216	606	1,200	1,800	0	0	1,800	3,100	3,100	0	3,100	1,500	1,500	0	0	1,500	
02-May-05	8,211	0	0	0.00	8,211	601	1,200	1,800	0	0	1,800	3,100	3,100	0	3,100	1,500	1,500	0	0	1,500	
03-May-05	8,206	0	0	0.00	8,206	595	1,200	1,800	0	0	1,800	3,100	3,100	0	3,100	1,500	1,500	0	0	1,500	
04-May-05	8,201	0	0	0.00	8,201	590	1,200	1,800	0	0	1,800	3,100	3,100	0	3,100	1,500	1,500	0	0	1,500	
05-May-05	8,195	0	0	0.00	8,195	585	1,200	1,800	0	0	1,800	3,100	3,100	0	3,100	1,500	1,500	0	0	1,500	
06-May-05	8,190	0	0	0.00	8,190	580	1,200	1,800	0	0	1,800	3,100	3,100	0	3,100	1,500	1,500	0	0	1,500	
07-May-05	8,185	0	0	0.00	8,185	574	1,200	1,800	0	0	1,800	3,100	3,100	0	3,100	1,500	1,500	0	0	1,500	
08-May-05	8,180	0	0	0.00	8,180	569	1,200	1,800	0	0	1,800	3,100	3,100	0	3,100	1,500	1,500	0	0	1,500	
09-May-05	8,174	0	0	0.00	8,174	564	1,200	1,800	0	0	1,800	3,100	3,100	0	3,100	1,500	1,500	0	0	1,500	
10-May-05	8,169	0	0	0.00	8,169	559	1,200	1,800	0	0	1,800	3,100	3,100	0	3,100	1,500	1,500	0	0	1,500	
11-May-05	8,164	0	0	0.00	8,164	553	1,200	1,800	0	0	1,800	3,100	3,100	0	3,100	1,500	1,500	0	0	1,500	
12-May-05	8,159	0	0	0.00	8,159	548	1,200	1,800	0	0	1,800	3,100	3,100	0	3,100	1,500	1,500	0	0	1,500	
13-May-05	8,153	0	0	0.00	8,153	543	1,200	1,800	0	0	1,800	3,100	3,100	0	3,100	1,500	1,500	0	0	1,500	
14-May-05	8,148	0	0	0.00																	

**Appendix A-1, Table 9**  
 2005 VAMP DAILY OPERATION PLAN  
 April 21, 2005

Target Flow Period: May 1 - May 31 • Flow Target: greater than 7,000 cfs

**Bold Numbers: observed real-time mean daily flows**

Date	San Joaquin River near Vernalis					SJR above Merced R. (2 day lag)		Merced River at Cresssey				Tuolumne River at LaGrange				Stanislaus R blw Goodwin				Maintain Priority Flow Level M=Merced T=Tuol. S=Stan.	
	Existing Flow	VAMP Suppl. Flow	Other Suppl. Flow	Cum. VAMP Suppl. Flow	VAMP Flow	(cfs)	(cfs)	Existing Flow	MelD VAMP Suppl. Flow	Exch Contr VAMP Suppl. Flow	VAMP Flow (3 day lag)	Existing Flow - base FERC Volume	Existing Flow - Adjusted FERC Pulse	VAMP Suppl. Flow	VAMP Flow (2 day lag)	Existing Flow - Base	Existing Flow - reshaped	VAMP Suppl. Flow	Other Suppl. Flow		VAMP Flow (2-day lag)
	(cfs)	(cfs)	(cfs)	(TAF)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	
15-Mar-05	6,260				6,260	1,238	1,223	285			285	3,140	3,140	3,140	229	229			229		
16-Mar-05	6,180				6,180	1,194	1,241	275			275	3,140	3,140	3,140	229	229			229		
17-Mar-05	6,040				6,040	1,141	1,130	276			276	3,120	3,120	3,120	229	229			229		
18-Mar-05	5,790				5,820	1,123	942	274			274	3,150	3,150	3,150	229	229			229		
19-Mar-05	5,800				5,800	1,123	1,035	292			292	3,190	3,190	3,190	228	228			228		
20-Mar-05	5,830				5,830	1,111	1,052	322			322	3,170	3,170	3,170	226	226			226		
21-Mar-05	5,850				5,850	1,206	1,035	335			335	3,160	3,160	3,160	226	226			226		
22-Mar-05	5,850				5,880	1,495	1,051	356			356	3,120	3,120	3,120	245	245			245		
23-Mar-05	6,570				6,540	1,452	1,656	1,774			1,774	3,170	3,170	3,170	232	232			232		
24-Mar-05	8,390				8,230	1,729	3,195	1,769			1,769	4,230	4,230	4,230	301	301			301		
25-Mar-05	9,460				9,220	2,811	4,250	1,532			1,532	5,810	5,810	5,810	611	611			611		
26-Mar-05	10,500				10,200	3,185	2,466	2,147			2,147	6,230	6,230	6,230	607	607			607		
27-Mar-05	12,100				11,700	3,005	1,099	4,145			4,145	6,240	6,240	6,240	610	610			610		
28-Mar-05	13,300				12,700	2,261	1,746	5,695			5,695	6,120	6,120	6,120	604	604			604		
29-Mar-05	14,100				13,500	2,224	2,098	5,451			5,451	6,440	6,440	6,440	603	603			603		
30-Mar-05	14,600				14,000	2,393	1,470	5,232			5,232	6,660	6,660	6,660	400	400			400		
31-Mar-05	15,000				14,300	2,298	38	4,717			4,717	6,660	6,660	6,660	229	229			229		
01-Apr-05	15,100				14,400	2,086	196	4,604			4,604	7,230	7,230	7,230	229	229			229		
02-Apr-05	15,000				14,300	1,846	581	4,164			4,164	6,860	6,860	6,860	229	229			229		
03-Apr-05	15,000				14,400	1,616	738	4,076			4,076	7,070	7,070	7,070	229	229			229		
04-Apr-05	15,000				14,300	1,232	1,461	4,074			4,074	7,360	7,360	7,360	226	226			226		
05-Apr-05	14,700				14,100	1,009	1,621	3,690			3,690	7,200	7,200	7,200	229	229			229		
06-Apr-05	14,300				13,700	904	1,406	3,575			3,575	5,600	5,600	5,600	229	229			229		
07-Apr-05	13,400				12,800	719	888	3,404			3,404	5,110	5,110	5,110	226	226			226		
08-Apr-05	12,000				12,000	616	1,577	3,385			3,385	4,630	4,630	4,630	227	227			227		
09-Apr-05	11,400				11,400	582	1,770	3,349			3,349	4,090	4,090	4,090	225	225			225		
10-Apr-05	10,700				10,700	618	1,823	3,332			3,332	4,160	4,160	4,160	229	229			229		
11-Apr-05	10,300				10,300	615	2,018	3,286			3,286	4,910	4,910	4,910	232	232			232		
12-Apr-05	10,300				10,300	697	1,944	2,807			2,807	5,020	5,020	5,020	226	226			226		
13-Apr-05	10,700				10,700	704	1,611	2,713			2,713	4,040	4,040	4,040	227	227			227		
14-Apr-05	9,840				9,840	595	611	2,742			2,742	4,100	4,100	4,100	228	228			228		
15-Apr-05	9,250				9,250	532	1,472	2,750			2,750	3,980	3,980	3,980	231	231			231		
16-Apr-05	9,010				9,010	458	1,374	2,702			2,702	4,070	4,070	4,070	229	229			229		
17-Apr-05	8,930				8,930	418	1,445	2,645			2,645	4,080	4,080	4,080	342	342			342		
18-Apr-05	8,740				8,740	400	1,233	2,577			2,577	4,100	4,100	4,100	406	406			406		
19-Apr-05	8,670				8,670	396	1,128	2,515			2,515	4,060	4,060	4,060	403	403			403		
20-Apr-05	8,580				8,580	375	1,029	2,460			2,460	4,030	4,030	4,030	400	400			400		
21-Apr-05	8,436				8,436	390	1,000	2,500			2,500	3,600	3,600	3,600	400	400			400		
22-Apr-05	8,320				8,320	388	1,000	2,500			2,500	3,600	3,600	3,600	400	400			400		
23-Apr-05	7,850				7,850	385	1,000	2,500			2,500	3,600	3,600	3,600	400	400			400		
24-Apr-05	7,888				7,888	383	1,000	2,500			2,500	3,600	3,600	3,600	400	400			400		
25-Apr-05	7,885				7,885	381	1,000	2,500			2,500	3,600	3,600	3,600	400	400			400		
26-Apr-05	7,883				7,883	379	1,000	2,500			2,500	3,600	3,600	3,600	400	400			400		
27-Apr-05	7,881				7,881	376	1,000	2,500			2,500	3,600	3,600	3,600	400	400			400		
28-Apr-05	7,879				7,879	374	1,000	1,800	0	0	1,800	3,600	3,600	3,600	400	400			400		
29-Apr-05	7,876				7,876	372	1,000	1,800	0	0	1,800	3,300	3,300	0	3,300	1,500	1,500	0	0	1,500	
30-Apr-05	7,874				7,874	370	1,000	1,800	0	0	1,800	3,300	3,300	0	3,300	1,500	1,500	0	0	1,500	
01-May-05	7,972	0	0	0.00	7,972	367	1,000	1,800	0	0	1,800	3,300	3,300	0	3,300	1,500	1,500	0	0	1,500	
02-May-05	7,970	0	0	0.00	7,970	365	1,000	1,800	0	0	1,800	3,300	3,300	0	3,300	1,500	1,500	0	0	1,500	
03-May-05	7,967	0	0	0.00	7,967	363	1,000	1,800	0	0	1,800	3,300	3,300	0	3,300	1,500	1,500	0	0	1,500	
04-May-05	7,965	0	0	0.00	7,965	361	1,000	1,800	0	0	1,800	3,300	3,300	0	3,300	1,500	1,500	0	0	1,500	
05-May-05	7,963	0	0	0.00	7,963	358	1,000	1,800	0	0	1,800	3,300	3,300	0	3,300	1,500	1,500	0	0	1,500	
06-May-05	7,961	0	0	0.00	7,961	356	1,000	1,800	0	0	1,800	3,300	3,300	0	3,300	1,500	1,500	0	0	1,500	
07-May-05	7,958	0	0	0.00	7,958	354	1,000	1,800	0	0	1,800	3,300	3,300	0	3,300	1,500	1,500	0	0	1,500	
08-May-05	7,956	0	0	0.00	7,956	352	1,000	1,800	0	0	1,800	3,300	3,300	0	3,300	1,500	1,500	0	0	1,500	
09-May-05	7,954	0	0	0.00	7,954	349	1,000	1,800	0	0	1,800	3,300	3,300	0	3,300	1,500	1,500	0	0	1,500	
10-May-05	7,952	0	0	0.00	7,952	347	1,000	1,800	0	0	1,800	3,300	3,300	0	3,300	1,500	1,500	0	0	1,500	
11-May-05	7,949	0	0	0.00	7,949	345	1,000	1,800	0	0	1,800	3,300	3,300	0	3,300	1,500	1,500	0	0	1,500	
12-May-05	7,947	0	0	0.00	7,947	343	1,000	1,800	0	0	1,800	3,300	3,300	0	3,300	1,500	1,500	0	0	1,500	
13-May-05	7,945	0	0	0.00	7,945	340	1,000	1,800	0	0	1,800	3,300	3,300	0	3,300	1,500	1,500	0	0	1,500	
14-May-05	7,943	0	0	0.00	7,943	338	1,000	1,800	0	0	1,800	3,300	3,300	0	3,300	1,500	1,500	0	0	1,500	
15-May-05	7,940	0	0	0.00	7,940	336	1,000	1,800	0	0	1,800	3,300	3,300	0	3,300	1,500	1,500	0	0	1,500	
16-May-05	7,938	0	0	0.00	7,938	334	1,000	1,800	0	0	1,800	3,300	3,300	0	3,300	1,500	1,500	0	0	1,500	
17-May-05	7,936	0	0	0.00	7,936	331	1,000	1,800	0	0	1,800	3,300	3,300	0	3,300	1,500	1,500	0	0	1,500	
18-May-05	7,934	0	0	0.00	7,934	329	1,000	1,800	0	0	1,800	3,300	3,300	0	3,300	1,500	1,500	0	0	1,500	
19-May-05	7,931	0	0	0.00	7,931	327	1,000	1,800	0	0	1,800	3,300	3,300	0	3,300	1,500	1,500	0	0	1,500	
20-May-05	7,929	0	0	0.00	7,929	325	1,000	1,800	0	0	1,800	3,300	3,300	0	3,300	1,500	1,500	0	0	1,500	
21-May-05	7,927	0	0	0.00	7,927	322	1,000	1,800	0	0	1,800	3,300	3,300	0	3,300	1,500	1,500	0			

### Appendix A-1, Table 10

#### 2005 VAMP DAILY OPERATION PLAN

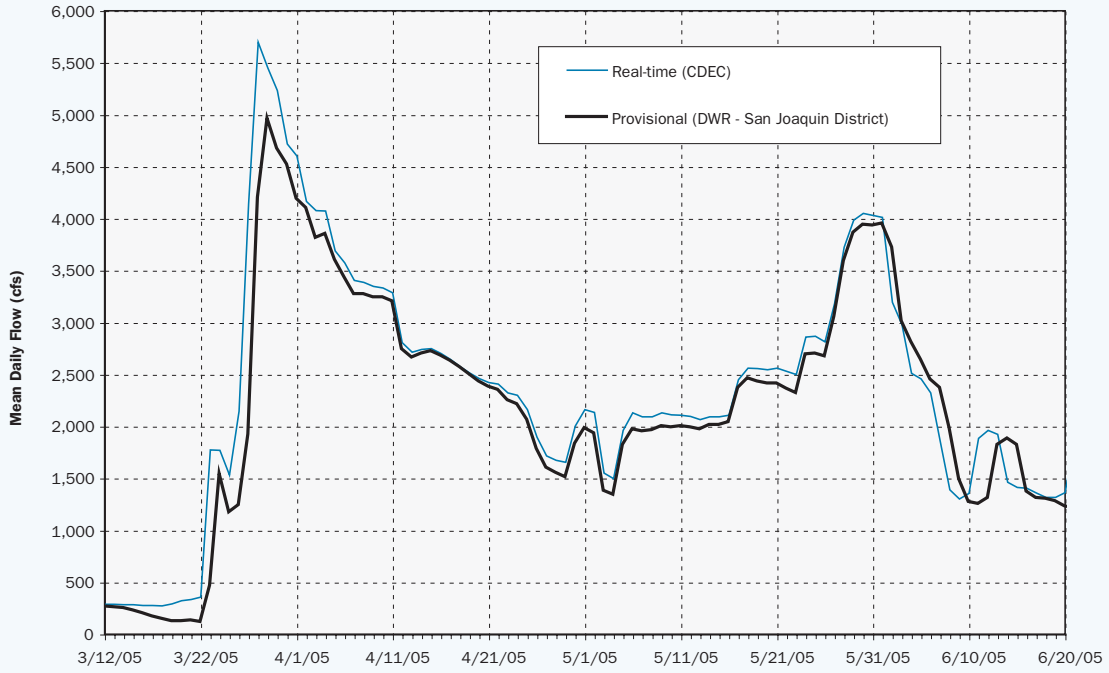
April 28, 2005

Target Flow Period: May 1 - May 31 • Flow Target: greater than 7,000 cfs

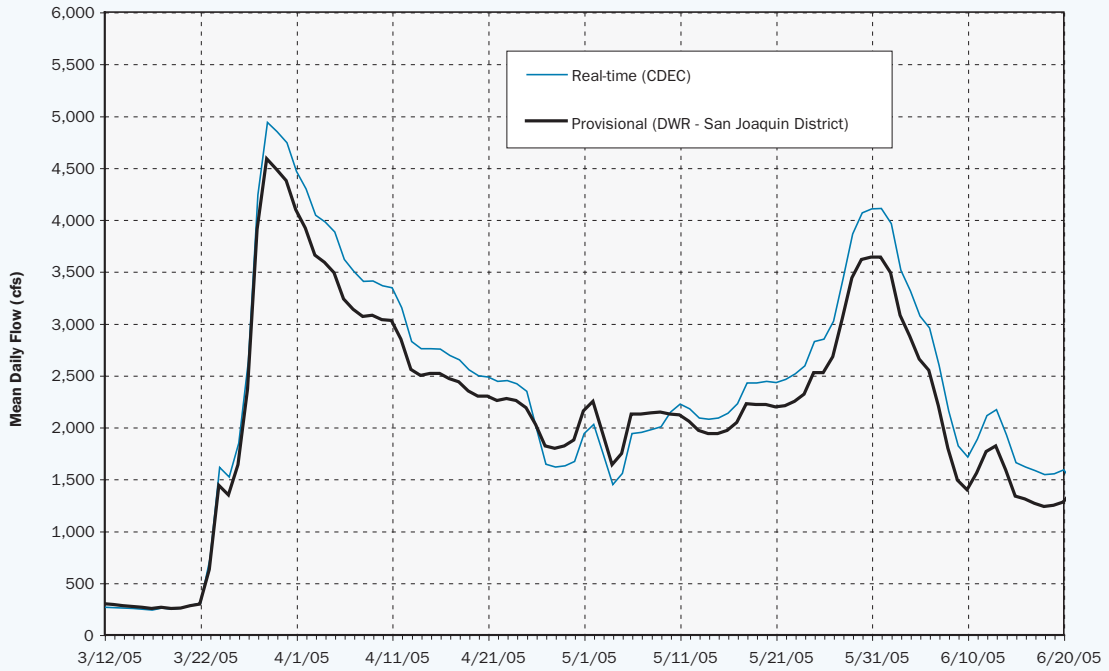
**Bold Numbers: observed real-time mean daily flows**

Date	San Joaquin River near Vernalis						Merced River at Cresssey				Tuolumne River at LaGrange				Stanislaus R blw Goodwin					Maintain Priority Flow Level M=Merced T=Tuol. S=Stan.
	Existing Flow	VAMP Suppl. Flow	Other Suppl. Flow	Cum. VAMP Suppl. Flow	VAMP Flow	SJR above Merced R. (2 day lag)	Ungaged Flow above Vernalis	Existing Flow	MelD VAMP Suppl. Flow	Exch Contr VAMP Suppl. Flow	VAMP Flow (3 day lag)	Existing Flow - base FERC Volume	Existing Flow - Adjusted FERC Pulse	VAMP Suppl. Flow	VAMP Flow (2 day lag)	Existing Flow - Base	Existing Flow - reshaped	VAMP Suppl. Flow	Other Suppl. Flow	
	(cfs)	(cfs)	(cfs)	(TAF)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)
15-Mar-05	6,260				6,260	1,238	1,223	285			285	3,140	3,140	3,140	229	229				229
16-Mar-05	6,180				6,180	1,194	1,241	275			275	3,140	3,140	3,140	229	229				229
17-Mar-05	6,040				6,040	1,141	1,140	276			276	3,120	3,120	3,120	229	229				229
18-Mar-05	5,790				5,820	1,123	942	274			274	3,150	3,150	3,150	229	229				229
19-Mar-05	5,800				5,800	1,123	1,035	292			292	3,190	3,190	3,190	228	228				228
20-Mar-05	5,830				5,830	1,111	1,052	322			322	3,170	3,170	3,170	226	226				226
21-Mar-05	5,850				5,850	1,206	1,035	335			335	3,160	3,160	3,160	226	226				226
22-Mar-05	5,860				5,880	1,495	1,061	356			356	3,120	3,120	3,120	245	245				245
23-Mar-05	6,570				6,540	1,452	1,656	1,774			1,774	3,170	3,170	3,170	232	232				232
24-Mar-05	8,390				8,230	1,729	3,195	1,769			1,769	4,230	4,230	4,230	301	301				301
25-Mar-05	9,470				9,220	2,811	4,260	1,532			1,532	5,810	5,810	5,810	611	611				611
26-Mar-05	10,500				10,200	3,185	2,466	2,147			2,147	6,230	6,230	6,230	607	607				607
27-Mar-05	12,100				11,700	3,005	1,099	4,145			4,145	6,240	6,240	6,240	610	610				610
28-Mar-05	13,300				12,700	2,261	1,746	5,695			5,695	6,120	6,120	6,120	604	604				604
29-Mar-05	14,100				13,500	2,224	2,098	5,451			5,451	6,440	6,440	6,440	603	603				603
30-Mar-05	14,600				14,000	2,393	1,470	5,232			5,232	6,660	6,660	6,660	400	400				400
31-Mar-05	15,000				14,300	2,298	38	4,717			4,717	6,660	6,660	6,660	229	229				229
01-Apr-05	15,100				14,400	2,086	196	4,604			4,604	7,230	7,230	7,230	229	229				229
02-Apr-05	15,000				14,300	1,846	581	4,164			4,164	6,860	6,860	6,860	229	229				229
03-Apr-05	15,000				14,400	1,616	738	4,076			4,076	7,070	7,070	7,070	229	229				229
04-Apr-05	15,000				14,300	1,232	1,461	4,074			4,074	7,360	7,360	7,360	226	226				226
05-Apr-05	14,700				14,100	1,009	1,621	3,690			3,690	7,200	7,200	7,200	229	229				229
06-Apr-05	14,400				13,700	904	1,506	3,575			3,575	5,600	5,600	5,600	229	229				229
07-Apr-05	13,400				12,800	719	888	3,404			3,404	5,110	5,110	5,110	226	226				226
08-Apr-05	12,000				12,000	616	1,577	3,385			3,385	4,630	4,630	4,630	227	227				227
09-Apr-05	11,500				11,500	582	1,870	3,349			3,349	4,090	4,090	4,090	225	225				225
10-Apr-05	10,700				10,700	618	1,823	3,332			3,332	4,160	4,160	4,160	229	229				229
11-Apr-05	10,400				10,400	615	2,118	3,286			3,286	4,910	4,910	4,910	232	232				232
12-Apr-05	10,300				10,300	697	1,944	2,807			2,807	5,020	5,020	5,020	226	226				226
13-Apr-05	10,800				10,800	704	1,711	2,713			2,713	4,040	4,040	4,040	227	227				227
14-Apr-05	9,900				9,900	595	671	2,742			2,742	4,100	4,100	4,100	228	228				228
15-Apr-05	9,320				9,320	532	1,542	2,750			2,750	3,980	3,980	3,980	231	231				231
16-Apr-05	9,080				9,080	458	1,444	2,702			2,702	4,070	4,070	4,070	229	229				229
17-Apr-05	9,010				9,010	418	1,525	2,645			2,645	4,080	4,080	4,080	342	342				342
18-Apr-05	8,810				8,810	400	1,303	2,577			2,577	4,100	4,100	4,100	406	406				406
19-Apr-05	8,750				8,750	396	1,208	2,515			2,515	4,060	4,060	4,060	403	403				403
20-Apr-05	8,660				8,660	375	1,109	2,460			2,460	4,030	4,030	4,030	400	400				400
21-Apr-05	8,380				8,380	367	944	2,423			2,423	4,010	4,010	4,010	404	404				404
22-Apr-05	8,010				8,010	340	690	2,406			2,406	3,860	3,860	3,860	401	401				401
23-Apr-05	7,730				7,730	292	489	2,321			2,321	3,530	3,530	3,530	402	402				402
24-Apr-05	7,490				7,490	310	466	2,301			2,301	3,280	3,280	3,280	409	409				409
25-Apr-05	7,190				7,190	373	560	2,161			2,161	3,010	3,010	3,010	414	414				414
26-Apr-05	6,750				6,750	626	430	1,800			1,800	3,210	3,210	3,210	401	401				401
27-Apr-05	6,490				6,490	788	392	1,600			1,600	3,700	3,700	3,700	405	405				405
28-Apr-05	6,798				6,798	782	400	1,600	0	0	1,600	3,750	3,750	3,750	400	400				400
29-Apr-05	7,093				7,093	777	400	1,600	0	0	1,600	3,750	3,750	3,750	1,500	1,500	0	0	0	1,500
30-Apr-05	6,932				6,932	771	400	1,600	0	0	1,600	3,750	3,750	3,750	1,500	1,500	0	0	0	1,500
01-May-05	8,027	0	0	0.00	8,027	766	400	1,600	0	0	1,600	3,750	3,750	3,750	1,500	1,500	0	0	0	1,500
02-May-05	8,021	0	0	0.00	8,021	760	400	1,600	0	0	1,600	3,750	3,750	3,750	1,500	1,500	0	0	0	1,500
03-May-05	8,016	0	0	0.00	8,016	754	400	1,600	0	0	1,600	3,750	3,750	3,750	1,500	1,500	0	0	0	1,500
04-May-05	8,010	0	0	0.00	8,010	749	400	1,600	0	0	1,600	3,750	3,750	3,750	1,500	1,500	0	0	0	1,500
05-May-05	8,004	0	0	0.00	8,004	743	400	1,600	0	0	1,600	3,750	3,750	3,750	1,500	1,500	0	0	0	1,500
06-May-05	7,999	0	0	0.00	7,999	738	400	1,600	0	0	1,600	3,750	3,750	3,750	1,500	1,500	0	0	0	1,500
07-May-05	7,993	0	0	0.00	7,993	732	400	1,600	0	0	1,600	3,750	3,750	3,750	1,500	1,500	0	0	0	1,500
08-May-05	7,988	0	0	0.00	7,988	726	400	1,600	0	0	1,600	3,750	3,750	3,750	1,500	1,500	0	0	0	1,500
09-May-05	7,982	0	0	0.00	7,982	721	400	1,600	0	0	1,600	3,750	3,750	3,750	1,500	1,500	0	0	0	1,500
10-May-05	7,976	0	0	0.00	7,976	715	400	1,600	0	0	1,600	3,750	3,750	3,750	1,500	1,500	0	0	0	1,500
11-May-05	7,971	0	0	0.00	7,971	710	400	1,600	0	0	1,600	3,750	3,750	3,750	1,500	1,500	0	0	0	1,500
12-May-05	7,965	0	0	0.00	7,965	704	400	1,600	0	0	1,600	3,750	3,750	3,750	1,500	1,500	0	0	0	1,500
13-May-05	7,960	0	0	0.00	7,960	698	400	1,600	0	0	1,600	3,750	3,750	3,750	1,500	1,500	0	0	0	1,500
14-May-05	7,954	0	0	0.00	7,954	693	400	1,600	0	0	1,600	3,750	3,750	3,750	1,500	1,500	0	0	0	1,500
15-May-05	7,948	0	0	0.00	7,948	687	400	1,600	0	0	1,600	3,750	3,750	3,750	1,500	1,500	0	0	0	1,500
16-May-05	7,943	0	0	0.00	7,943	682	400	1,600	0	0	1,600	3,750	3,750	3,750	1,500	1,500	0	0	0	1,500
17-May-05	7,937	0	0	0.00	7,937	676	400	1,600	0	0	1,600	3,750	3,750	3,750	1,500	1,500	0	0	0	1,500
18-May-05	7,932	0	0	0.00	7,932	670	400	1,600	0	0	1,600	3,750	3,750	3,750	1,500	1,500	0	0	0	1,500
19-May-05	7,926	0	0	0.00	7,926	665	400	1,600	0	0	1,600	3,750	3,750	3,750	1,500	1,500	0	0	0	1,500
20-May-05	7,920	0	0	0.00	7,920	659	400	1,600	0	0	1,600	3,750	3,750	3,750	1,500	1,500	0	0	0	1,500
21-May-05	7,915	0	0	0.00	7,915	654	400	1,600	0	0	1,600	3,750	3,750	3,750	1,500	1,500	0	0	0	1,500
22-May-05	7,909	0	0	0																

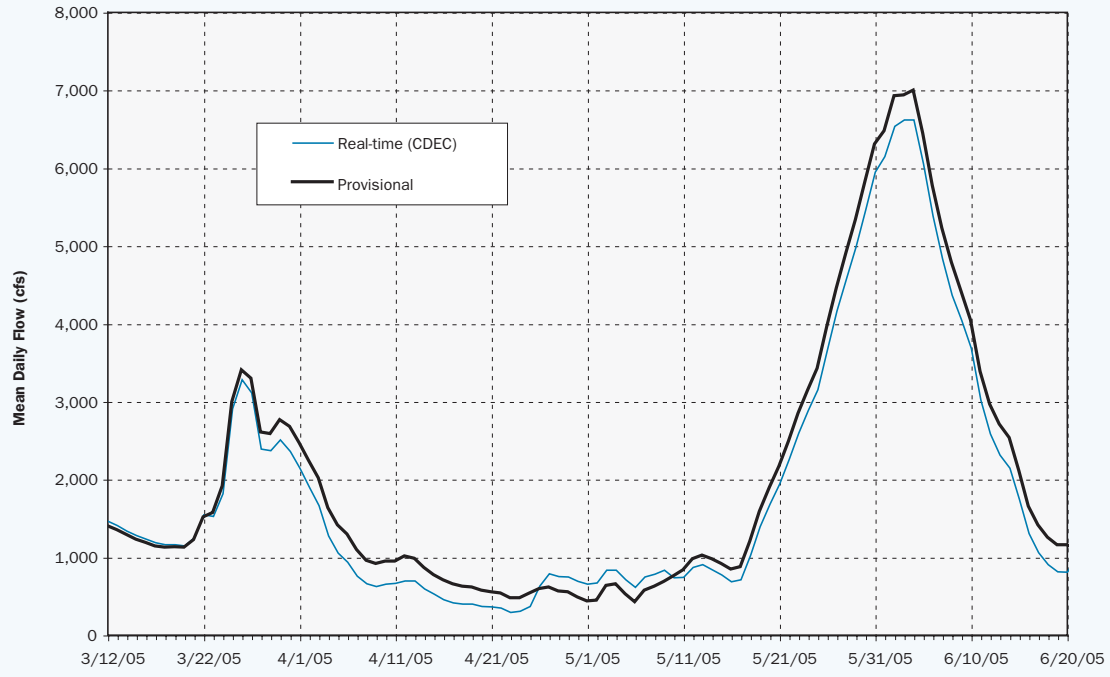
**Appendix A-2, Figure 1**  
Merced River at Cressey



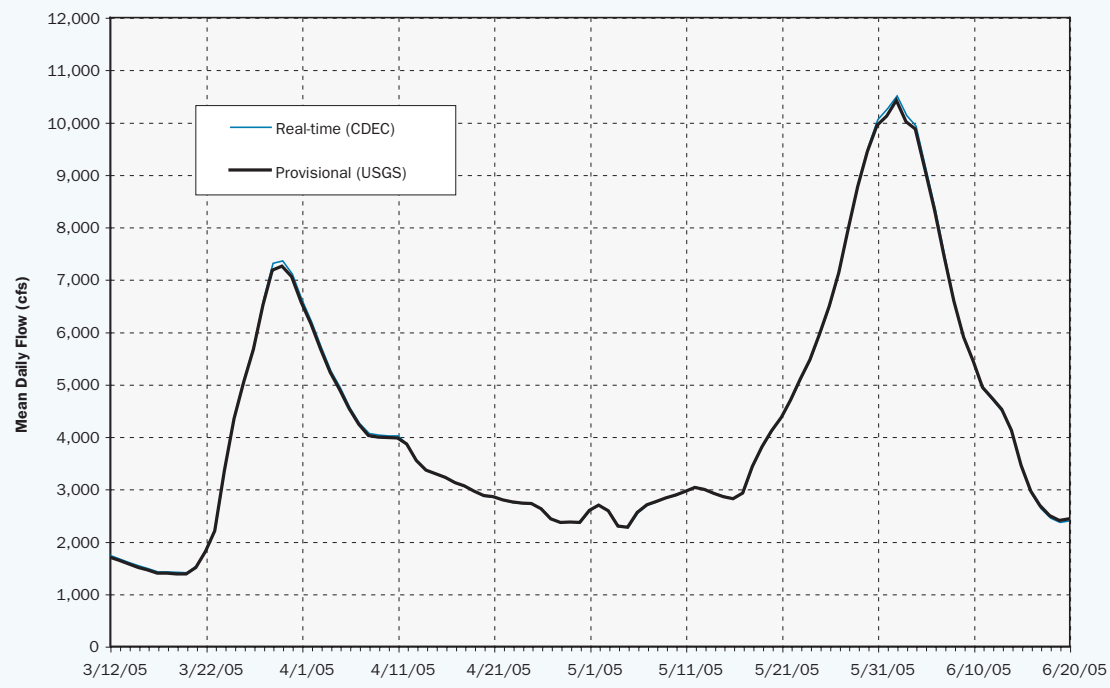
**Appendix A-2, Figure 2**  
Merced River near Stevinson



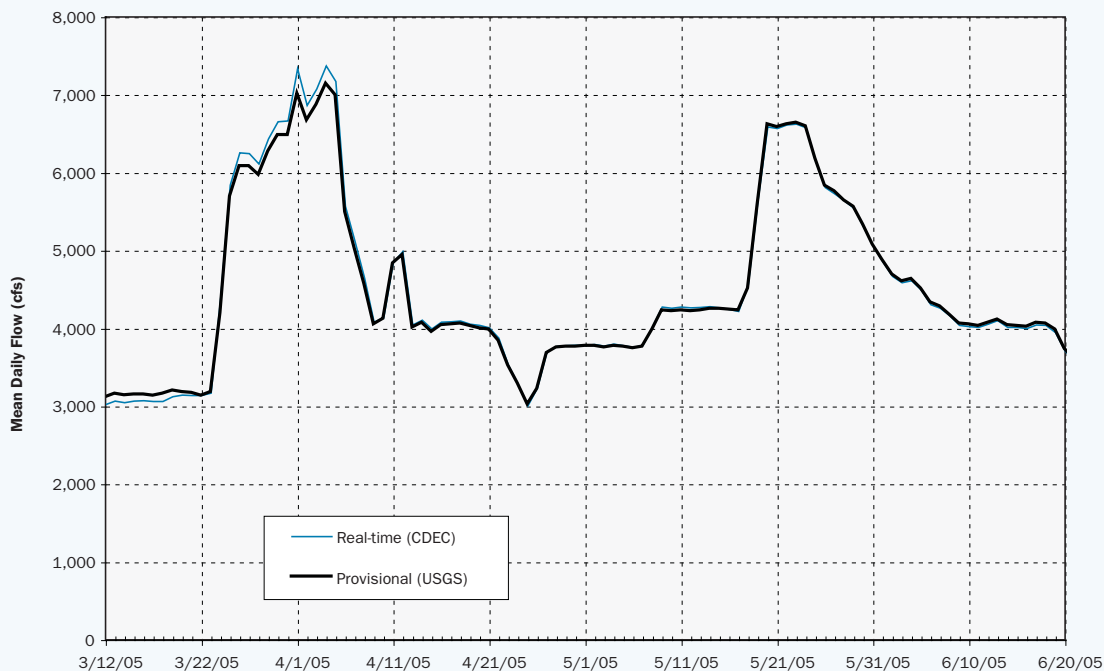
**Appendix A-2, Figure 3**  
San Joaquin River above Merced River



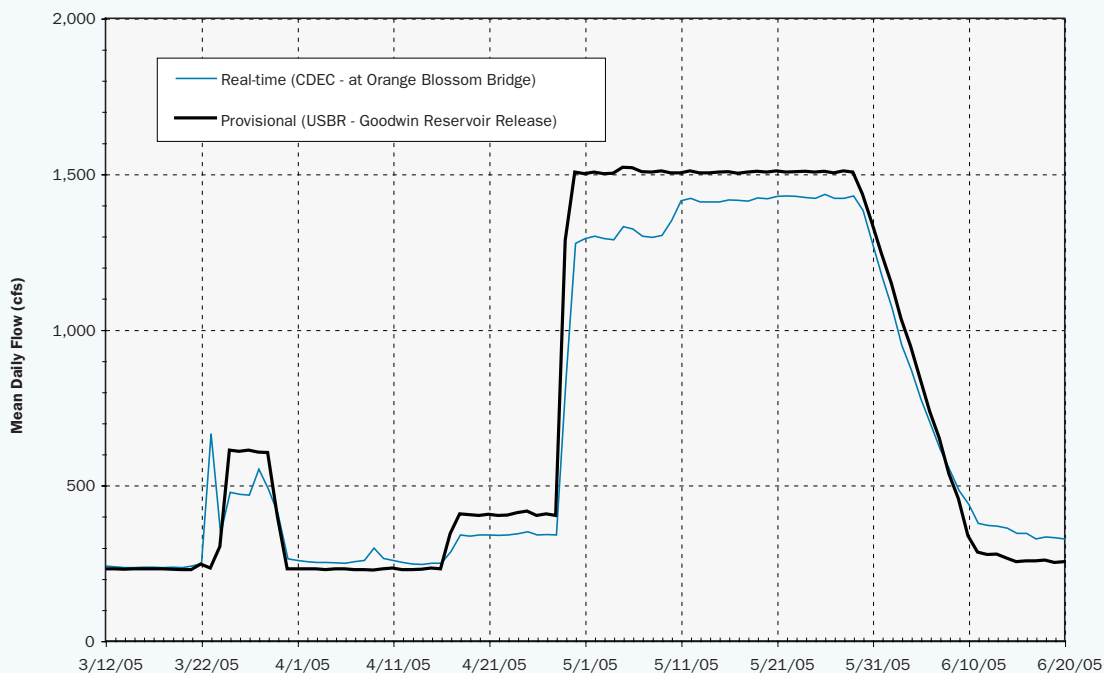
**Appendix A-2, Figure 4**  
San Joaquin River near Newman



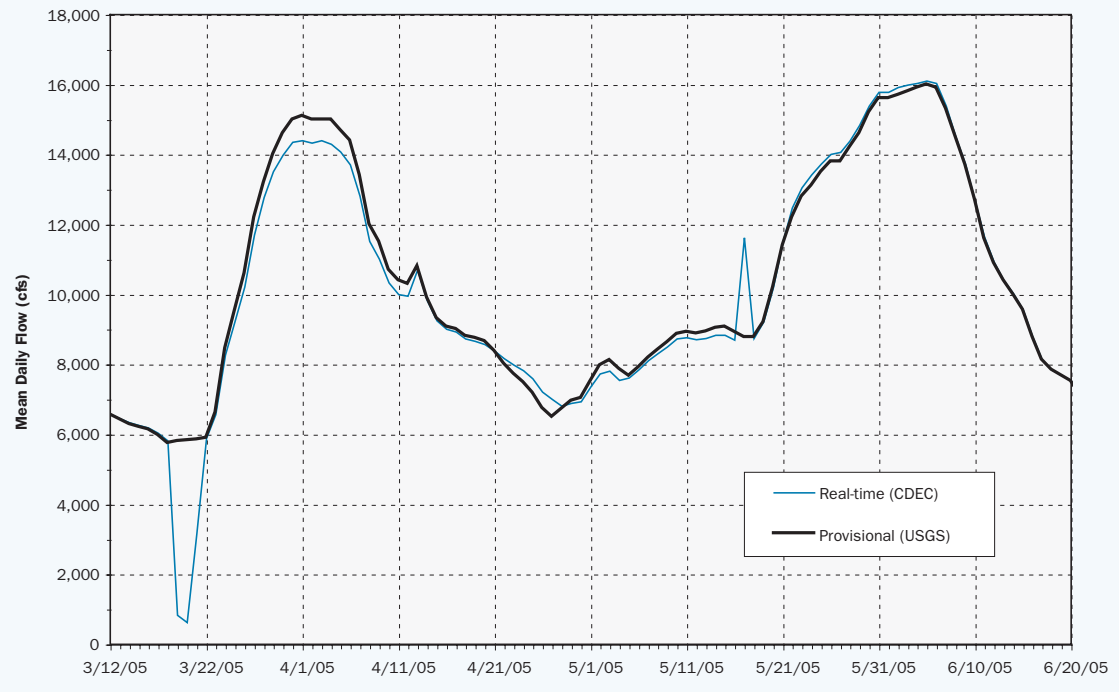
**Appendix A-2, Figure 5**  
 Tuolumne River below LaGrange Dam



**Appendix A-2, Figure 6**  
 Stanislaus River below Goodwin Dam



**Appendix A-2, Figure 7**  
San Joaquin River near Vernalis



**Appendix A-2, Figure 8**  
Ungaged Flow in San Joaquin River near Vernalis

