

[SUMMARY OF FINAL SUBMITTED VERSION]**PROGRESS REPORT BY PERMITTEE FOR 2010**

Primary Owner: U.S. BUREAU OF RECLAMATION
 Application Number: A005626
 Permit Number: 012721
 Date Submitted: 12/22/2011

Compliance with Permit Terms and Conditions	
I have reviewed my water right permit	Yes
I am complying with all terms and conditions	Yes
Description of noncompliance with terms and conditions	
Intake location has been changed	
Description of intake location changes	
Type of use has changed	
Description of type of use changes	
Place of use has changed	
Description of place of use changes	

Permitted Project Status	
Project Status	Not Complete
Construction work has commenced	Yes
Construction is completed	Yes
Beneficial uses of water has commenced	Yes
Project will be completed within the time period specified in the permit	No
Explanation of work remaining to be done	Petition has been filed to extend time period to maximize beneficial use.
Estimated date of completion	12/31/2030

Purpose of Use	
Domestic	incidental
Irrigation	1950217 Acres Mixed Crop Types
Industrial	mixed
Municipal	0
Recreational	aquatic related sports
Stockwatering	incidental
Fish and Wildlife Protection and/or Enhancement	Sacramento River and Delta Flows
Other	water quality control

Month	Amount directly diverted or collected to storage (Acre-Feet)	Amount used (Acre-Feet)
January	935990.4	116190.4
February	835252.2	52052.2
March	627006.9	138506.9
April	718271.5	196071.5
May	560946.3	487046.3

June	469290.5	651790.5
July	226039.5	664139.5
August	198610.5	548010.5
September	209768.7	382668.7
October	195170.4	266670.4
November	289357.9	312457.9
December	713727.9	448727.9
Total	5979432.7	4264332.7

Month	Maximum Rate of Diversion (CFS)
January	45077.9
February	33120.3
March	21035.5
April	20213.2
May	13154.6
June	7642.8
July	3682.6
August	3235.8
September	3531.5
October	4357
November	5726
December	24212.1

Reservoir name	Spilled this year	Feet below spillway at maximum storage	Completely emptied	Feet below spillway at minimum storage	Method used to measure water level
Shasta Reservoir	No	10.71	No	131.03	surface water staff gage

Conservation of Water	
Are you now employing water conservation efforts?	No
Description of water conservation efforts	
Amount of water conserved	

Water Quality and Wastewater Reclamation	
During the period covered by this Report, did you use reclaimed water from a wastewater treatment facility, water from a desalination facility, or water polluted by waste to a degree which unreasonably affects the water for other beneficial uses?	No
Amount of reclaimed, desalinated, or polluted water used	

Conjunctive Use of Groundwater and Surface Water	
During the period covered by this Report, were you using groundwater in lieu of available surface water authorized under your permit?	No
Amounts of groundwater used	

Additional Remarks
The electronic data is submitted provisionally, as an attempt to discretize CVP diversions and storage among individual permits, as requested. The provisional attachment shows the break down between diversions to storage and direct diversions, which are combined in this submittal. Because of the combined place of use, storage and diversions were distributed in order of permit/license priority. Los Vaqueros diversions are accounted for under CVP storage and diversions, as is a portion of San Luis Reservoir

Storage. Reclamation does not have population numbers for 2010 CVP contract deliveries (outside of acre feet served). Per the CPOU, the entire irrigated acreage estimate available (without all districts reporting) is 1,950,217 acres. Reservoir levels are reported for the primary reservoir. Other CVP permits can be consulted for additional reservoir level information. Individual contractors implement conservation measures, but that information was not collected in time to submit with this report. Reclamation also maintains an annual grant program to support conservation activities. Contra Costa Water District conservation data is reported on A009366, A009367, and A015374, but may have bearing on other CVP permits which support diversion to Los Vaqueros Reservoir and delivery to their service area. Attached are two files which represent the official submittal of Reclamation.

Attachments	
File Name	Size
A005626 Provisional Attachment 2010.pdf	47 KB
2010 Shasta TReport.pdf	61 KB
CVPSUMMARY2010.pdf	16 KB

Contact Information of the Person Submitting the Form	
First Name	Lisa
Last Name	Holm
Relation to Water Right	Authorized Official
Has read the form and agrees the information in the report is true to the best of his/her knowledge and belief	Yes

ATTACHMENT TO 2010 PERMITTEE REPORT

**Shasta Reservoir
Operations under Application 005626/Permit 012721**

spillway elevation	1076.2			
minimum elevation	945.17	date	1/1/2010	131.03
maximum elevation	1065.49	date	5/22/2010	10.71
minimum elevation	1017.02	date	12/4/2010	59.18

	Amount collected to storage, AF ¹	Amount directly diverted, AF ^{1,2}	Amount collected to storage or directly diverted, AF ¹	Amount withdrawn from storage, AF ²	Amount used, AF ²	Maximum rate of direct diversion, cfs ³	Maximum rate of diversion to storage cfs ³	Maximum rate of combined direct and storage diversions, cfs
Jan	819,800.0	116,190.4	935,990.4	0.0	116,190.4	3,115.0	44,090.9	45,077.9
Feb	783,200.0	52,052.2	835,252.2	0.0	52,052.2	2,943.0	32,929.3	33,120.3
Mar	488,500.0	138,506.9	627,006.9	0.0	138,506.9	3,343.0	19,949.5	21,035.5
Apr	522,200.0	196,071.5	718,271.5	0.0	196,071.5	5,862.0	17,424.2	20,213.2
May	116,400.0	444,546.3	560,946.3	42,500.0	487,046.3	8,000.0	5,959.6	13,154.6
Jun	0.0	469,290.5	469,290.5	185,500.0	654,790.5	7,642.8	0.0	7,642.8
Jul	0.0	226,039.5	226,039.5	438,100.0	664,139.5	3,682.6	0.0	3,682.6
Aug	0.0	198,610.5	198,610.5	349,400.0	548,010.5	3,235.8	0.0	3,235.8
Sep	0.0	209,768.7	209,768.7	172,900.0	382,668.7	3,531.5	0.0	3,531.5
Oct	0.0	195,170.4	195,170.4	71,500.0	266,670.4	4,357.0	0.0	4,357.0
Nov	0.0	289,357.9	289,357.9	23,100.0	312,457.9	5,726.0	0.0	5,726.0
Dec	299,300.0	414,427.9	713,727.9	34,300.0	448,727.9	8,000.0	16,212.1	24,212.1
TOTAL	3,029,400.0	2,950,032.6	5,979,432.6	1,317,300.0	4,267,332.6		0.0	

¹ These two columns are combined to provide the numbers reported as "Amount directly diverted or collected to storage". The Diversion to Storage is also reported under Permit 12720.

² These two columns are combined to provide the numbers reported as "Amount used". The withdrawals from storage are also reported under Permit 12720.

³ Daily diversion rates were combined to determine the maximum combined rate of diversion for each month.

2010

Shasta Lake/Keswick Lake - Operational Summary; Units: Acre-feet

Year	Month	Shasta Lake							Keswick Lake						
		EOM Storage (AF)	Change in Storage (AF)	Release Power (cfs)	Release Spill (cfs)	Release Outlet (cfs)	Release Total	Evap. (cfs)	EOM Storage (AF)	Change in Storage (AF)	Release Power (cfs)	Release Spill (cfs)	Release Fish Trap	Release Total	Evap.
2009	Oct	1,707,900	-66,300	269,084	0	58,771	327,855	5,338	21,787	401	9,424	0	0	9,424	208
2009	Nov	1,673,700	-34,200	208,188	0	39,795	247,983	2,610	21,580	-207	274,620	1,682	0	276,302	107
2009	Dec	1,777,100	103,400	184,725	0	0	184,725	1,466	21,909	329	200,649	0	1,442	202,091	58
2010	Jan	2,596,900	819,700	116,396	0	0	116,396	3,041	20,487	-1,422	216,906	0	5,227	222,133	105
2010	Feb	3,380,100	783,500	52,144	0	0	52,144	3,287	21,014	527	179,445	0	4,721	184,166	79
2010	Mar	3,868,600	488,500	138,752	0	0	138,752	6,024	22,683	1,669	196,482	0	5,227	201,709	139
2010	Apr	4,390,800	522,200	196,418	0	276	196,694	6,563	21,659	-1,024	262,241	0	5,058	267,299	139
2010	May	4,464,700	74,100	495,006	0	3,666	498,672	11,375	21,732	73	542,886	2,049	5,227	550,162	238
2010	Jun	4,279,200	-185,500	640,615	0	0	640,615	14,858	22,439	707	692,257	5,248	5,058	702,563	321
2010	Jul	3,841,100	-438,300	665,314	0	0	665,314	19,746	22,865	426	746,494	0	4,800	751,294	446
2010	Aug	3,491,700	-349,500	548,979	0	0	548,979	15,245	22,260	-605	623,416	0	0	623,416	365
2010	Sept	3,318,800	-173,000	383,345	0	0	383,345	9,989	22,118	-142	440,956	0	0	440,956	240
2010	Oct	3,272,500	-46,500	267,142	0	0	267,142	5,625	19,656	-2,462	374,872	0	0	374,872	147
2010	Nov	3,224,200	-48,500	313,010	0	0	313,010	2,870	21,050	1,394	347,866	1,008	0	348,874	71
2010	Dec	3,489,200	265,100	563,639	0	0	563,639	2,936	19,333	-1,717	615,561	0	1,609	617,170	38
Total - Water Year			1,544,600	3,898,966	0	102,508	4,001,474	99,542		732	4,385,776	8,979	36,760	4,431,515	2,445
Total - Calendar Year			1,711,800	4,380,760	0	3,942	4,384,702	101,559		-2,576	5,239,382	8,305	36,927	5,284,614	2,328

Storage Quantity

Application No. 5625	Date	Storage
Begin storage season 1-Oct-09	10/1/2009	1,768,300
Minimum storage	11/18/2009	1,663,300
Maximum storage	5/22/2010	4,507,200
End of storage season 30-Jun-10	6/30/2010	4,279,200
Diversion to Storage		2,843,900

Application No. 5626	Date	Storage
Begin storage season 1-Oct-09	10/1/2009	1,768,300
Minimum storage	11/18/2009	1,663,300
Maximum storage	5/22/2010	4,507,200
End of storage season 30-Jun-10	6/30/2010	4,279,200
Diversion to Storage		2,843,900

Application No. 9363	Date	Storage
Begin storage season 1-Oct-09	10/1/2009	1,768,300
Minimum storage	11/18/2009	1,663,300
Maximum storage	5/22/2010	4,507,200
End of storage season 30-Jun-10	6/30/2010	4,279,200
Diversion to Storage		2,843,900

Application No. 9364	Date	Storage
Begin storage season 1-Oct-09	10/1/2009	1,768,300
Minimum storage	11/18/2009	1,663,300
Maximum storage	5/22/2010	4,507,200
End of storage season 30-Jun-10	6/30/2010	4,279,200
Diversion to Storage		2,843,900

Application No. 9365	Date	Storage
Begin storage season 1-Oct-09	10/1/2009	1,768,300
Minimum storage	11/18/2009	1,663,300
Maximum storage	5/22/2010	4,507,200
End of storage season 30-Jun-10	6/30/2010	4,279,200
Diversion to Storage		2,843,900

Summary of Central Valley Project Operations 1/
 Calendar Year 2010
 Inventory of Water Quantities in Acre-feet

SJC-164

Facilities and Area of Use	Reservoir Evaporation	Irrigation Diversions	M & I Deliveries	Power Use <u>14/</u>	River Release <u>2/</u>	Acres Irrigated
Trinity River						
Clair Engle Lake and vicinity	35,305	- na -	- na -	902,496	- na -	- na -
Lewiston Lake and vicinity	2,061	- na -	- na -	49,704	654,299	- na -
Diversions from Lewiston Lake to Whiskeytown Lake	- na -	- na -	- na -	608,070	- na -	- na -
Trinity River Subtotal	37,366	- na -	- na -	1,560,270	654,299	- na -
Clear Creek						
Whiskeytown Lake <u>3/</u>	6,837	2,580	1,673	- na -	140,099	- na -
Diversions - Whiskeytown Lake to Keswick Reservoir	- na -	- na -	- na -	608,070	- na -	- na -
Clear Creek Subtotal	6,837	2,580	1,673	608,070	140,099	- na -
Sacramento River						
Shasta Lake	101,559	- na -	- na -	4,680,760	- na -	- na -
Keswick Reservoir	2,326	- na -	- na -	5,284,614	5,284,614	- na -
CVP Redding area (Keswick, Shasta, Bella Vista)	- na -	4,742	18,490	- na -	- na -	13,058
Sacramento Valley Canals	- na -	189,590	437	- na -	- na -	115,138
Sacramento River Settlement Contractors	- na -	<u>4/</u>	<u>4/</u>	- na -	- na -	405,013
Sacramento River Subtotal	103,885	194,332	18,927	9,965,374	5,284,614	533,209
American River						
Folsom Lake	29,687	0	39,125 <u>5/</u>	2,097,094	- na -	0
Lake Natoma	1,204	- na -	- na -	1,688,997	2,461,661	- na -
Folsom South Canal (from Lake Natoma)	- na -	- na -	3,415	- na -	- na -	- na -
Lower American River Diversions	- na -	- na -	0 <u>5/</u>	- na -	- na -	- na -
American River Subtotal	30,891	0	42,540	3,786,091	2,461,661	0
Stanislaus River						
New Melones Lake	36,302	- na -	- na -	799,067	799,067 <u>12/</u>	- na -
Stanislaus River <u>13/</u>	- na -	495,138 <u>5/</u>	23,465 <u>5/</u>	- na -	- na -	- na -
Stanislaus River Subtotal	36,302	495,138 <u>6/</u>	23,465	799,067	799,067	- na -

Facilities and Area of Use	Reservoir Evaporation	Irrigation Diversions	M & I Deliveries	Power Use <u>14/</u>	River Release <u>2/</u>	Acres Irrigated <u>SJC-164</u>
Delta and Westside of San Joaquin Valley						
Contra Costa Canal and Contra Loma Reservoir	- na -	0	81,072	- na -	- na -	0
Delta Mendota and San Luis Canals						
Delta-Mendota Canal	- na -	61,811	6,770	- na -	- na -	63,495 <u>19/</u>
Waterfowl Conservation	- na -	257,993	- na -	- na -	- na -	- na -
San Luis Reservoir <u>J/</u>	65,754	- na -	- na -	530,300	- na -	- na -
O'Neill Forebay <u>J/</u>	- na - <u>11/</u>	- na -	- na -	54,536	- na -	- na -
San Luis and Coalinga Canal	- na -	1,175,266	92,620	- na -	- na -	463,851 <u>20/</u>
Cross Valley Canal	- na -	8,985	75 <u>5/</u>	- na -	- na -	- na -
San Felipe Service Area (Pacheco Tunnel)	- na -	24,754	71,554	- na -	- na -	0 <u>21/</u>
Mendota Pool						
Mendota Pool and vicinity <u>7/ 8/</u>	- na -	57,778	- na -	- na -	- na -	27,242 <u>9/</u>
Waterfowl Conservation(Reported under San Luis Canal)	- na -	- na -	- na -	- na -	- na -	- nr -
Exchange Contract <u>10/ 8/</u>	- na -	680,374	- na -	- na -	- na -	54,325 <u>22/</u>
Delta and Westside Subtotal	65,754	2,266,961	252,091	584,836	- na -	608,913
San Joaquin River						
Millerton Lake and vicinity	18,812	7,249	155	- na - <u>15/</u>	136,872 <u>16/</u>	- na - <u>17/</u>
Interim Restoration (Releases under P.L. 111-11)	- na -	- na -	- na -	- na -	267,066	- na -
Exchange Contract (Recapture under P.L. 111-11)	- na -	52000	- na -	- na -	- na -	- na - <u>18/</u>
Friant-Kern Canal	- na -	1,172,116	61,156	- na -	- na -	633,124
Madera Canal	- na -	255,733	- na -	- na -	- na -	174,971
San Joaquin River Subtotal	18,812	1,487,098	61,311	- na -	403,938	808,095
Total - CVP	299,847	4,446,109	400,007	17,303,708	9,743,678	1,950,217

LEGEND: na = not applicable; nr = not reported; ua = unavailable

- 1/ Does not include water quantities and acreage for either American River Division or Black Butte Unit.
- 2/ As appropriate value is shown only for regulating reservoir; Includes river outlet releases for downstream uses and/or flood control releases, including temperature control, water quality and Delta standards.
- 3/ M & I use by Clear Creek Community Service District.
- 4/ Total delivery under water right settlement contracts; includes water under contractors water rights.
- 5/ Includes water under water service and water right settlement contracts; some of this water includes water under contractors water rights.
- 6/ Stanislaus River Irrigation Diversions include releases reported from Goodwin Reservoir Daily Operations, Joint Main & South Main Canal Releases.
- 7/ All contractors including water right settlement contractors except Exchange Contractors below
- 8/ Water diverted directly from San Joaquin River is under water rights of settlement contractors.
- 9/ Does not include irrigated acreage in Westlands Water District, Coelho Family Trust , Dudley, Laguna WD, Reclamation District No.1606, and Tranquillity Public Utilities District.
- 10/ Represents the combined irrigation diversions and acres irrigated of Central California Irrigation District, Columbia Canal Co., Firebaugh Canal Co., and San Luis Canal Co.
- 11/ The total amount of Reservoir Evaporation is unavailable. 12/ River release is made at Goodwin Dam.
- 13/ Water service contract and water right settlement deliveries are made at Goodwin Dam.
- 14/ Releases made through power generation facilities. Though these releases are totaled, the same water may pass through multiple facilities.
- 15/ Generation facilities at Friant Dam and associated water rights are not operated or held by Reclamation.
- 16/ Releases include water for water right Settlement Contracts between Friant and Gravelly Ford.
- 17/ Total area in water right settlement contracts. 18/ Acres irrigated incorporated in Mendota Pool figure.
- 19/ Does not include irrigated acreage in Centinella WD, Eagle Field WD, Mercy Springs WD, Oro Loma WD, and Plain View WD.
- 20/ Does not include irrigated acreage in Pacheco WD and Panoche WD.
- 21/ Does not include irrigated acreage in San Benito County WD and Santa Clara Valley WD.
- 22/ Does not include irrigated acreage in Central California ID and Firebaugh Canal WD.
- J/ Joint State/Federal use facility.