

[SUMMARY OF FINAL SUBMITTED VERSION]**PROGRESS REPORT BY PERMITTEE FOR 2011**

Primary Owner: U.S. BUREAU OF RECLAMATION
 Application Number: A005626
 Permit Number: 012721
 Date Submitted: 06/29/2012

1. Permit Review	
I have reviewed my water right permit	Yes

2. Compliance with Permit Terms and Conditions	
I am complying with all terms and conditions	Yes
Description of noncompliance with terms and conditions	

3. Changes to the Project	
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	
Other changes	
Description of other changes	

4-6. Permitted Project Status	
Project Status	Not Complete
6a. Construction work has commenced	Yes
6b. Construction is completed	Yes
6c. Beneficial uses of water has commenced	Yes
6d. Project will be completed within the time period specified in the permit	No
6e. Explanation of work remaining to be done	Petition to extend time to put to beneficial use has been filed.
6f. Estimated date of completion	12/31/2030

7. Purpose of Use	
Domestic	incidental
Irrigation	1519843 Acres Mixed Crop Types
Industrial	mixed
Municipal	0
Recreational	aquatic activities at Shasta Lake
Stockwatering	incidental
Fish and Wildlife Protection and/or Enhancement	Sacramento River, Delta
Other	salinity control

8. Amount of Water Diverted and Used		
Month	Amount directly diverted or collected to storage	Amount used

	(Acre-Feet)	(Acre-Feet)
January	434096.5	433096.5
February	486575.8	192675.8
March	694547.5	446447.5
April	715553.9	481453.9
May	677101.9	459801.9
June	464588.4	549888.4
July	273979.5	640579.5
August	201666.9	617466.9
September	196077.3	474077.3
October	225076	339376
November	241972.1	318572.1
December	217921.2	273521.2
Total	4829157	5226957

9. Maximum Rate of Diversion for each Month

Month	Maximum Rate of Diversion (CFS)
January	9516.4
February	22135.5
March	26484.8
April	19512
May	13925.3
June	10272.7
July	4770.6
August	3506.4
September	4015.6
October	4531.7
November	5592
December	5125

10. Storage

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 Lake	No	11.22	No	64.34	staff gauge reading

Conservation of Water

11. Are you now employing water conservation efforts?	No
Description of water conservation efforts	
12. Amount of water conserved	

Water Quality and Wastewater Reclamation

13. 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
14. Amount of reclaimed, desalinated, or polluted water used	

Conjunctive Use of Groundwater and Surface Water

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15. During the period covered by this Report, were you using groundwater in lieu of available surface water authorized under your permit?

No

16. 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. M&I storage and diversions adequately covered in other Shasta Permit 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 2011 CVP contract deliveries (outside of acre-feet served). Acreage and other uses in part 3 reflect consolidated place of use of CVP. Reservoir levels are reported for the primary reservoir. Direct diversions include fish and wildlife releases. 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 redirection to Los Vaqueros Reservoir and delivery to their service area. Attached are two files which represent the official submittal of Reclamation.

Attachments

File Name	Description	Size
CVPSUMMARY2011.pdf	2011 CVP Summary	16 KB
A005626 Provisional Attachment 2011.pdf	Breakdown of storage and direct diversions	47 KB
Shasta TReport 2011.pdf	2011 Operations Summary	61 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

Summary of Central Valley Project Operations 1/
 Calendar Year 2011
 Inventory of Water Quantities in Acre-feet

SJC-165

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	42,617	- na -	- na -	1,162,304	- na -	- na -
Lewiston Lake and vicinity	1,966	- na -	- na -	50,680	758,435	- na -
Diversions from Lewiston Lake to Whiskeytown Lake	- na -	- na -	- na -	618,909	- na -	- na -
Trinity River Subtotal	44,583	- na -	- na -	1,831,893	758,435	- na -
Clear Creek						
Whiskeytown Lake <u>3/</u>	6,910	2,206	1,698	- na -	140,122	- na -
Diversions - Whiskeytown Lake to Keswick Reservoir	- na -	- na -	- na -	753,063	- na -	- na -
Clear Creek Subtotal	6,910	2,206	1,698	753,063	140,122	- na -
Sacramento River						
Shasta Lake	99,873	- na -	- na -	5,492,459	- na -	- na -
Keswick Reservoir	2,287	- na -	- na -	6,107,775	7,194,653	- na -
CVP Redding area (Keswick, Shasta, Bella Vista)	- na -	4,727	16,579	- na -	- na -	14,043
Sacramento Valley Canals	- na -	193,712	239	- na -	- na -	124,234
Sacramento River Settlement Contractors	- na -	229,296 <u>4/</u>	1,584 <u>4/</u>	- na -	- na -	367,066
Sacramento River Subtotal	102,160	427,735	18,402	11,600,234	7,194,653	505,343
American River						
Folsom Lake	25,038	0	60,794 <u>5/</u>	2,777,377	- na - <u>2/</u>	0
Lake Natoma	983	- na -	- na -	2,617,222	4,102,248	- na -
Folsom South Canal (from Lake Natoma)	- na -	- na -	3,289	- na -	- na -	- na -
Lower American River Diversions	- na -	- na -	0 <u>5/</u>	- na -	- na -	- na -
American River Subtotal	26,021	0	64,083	5,394,599	4,102,248	0
Stanislaus River						
New Melones Lake	49,716	- na -	- na -	1,424,871	1,424,871 <u>12/</u>	- na -
Stanislaus River <u>13/</u>	- na -	524,708 <u>5/</u>	47,574 <u>5/</u>	- na -	- na -	- na -
Stanislaus River Subtotal	49,716	524,708 <u>6/</u>	47,574	1,424,871	1,424,871	- 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
Delta and Westside of San Joaquin Valley						
Contra Costa Canal and Contra Loma Reservoir	- na -	0	96,202	- na -	- na -	0
Delta Mendota and San Luis Canals						
Delta-Mendota Canal	- na -	121,753	6,144	- na -	- na -	98,025 <u>19/</u>
Waterfowl Conservation	- na -	272,778	- na -	- na -	- na -	- na -
San Luis Reservoir J/	71,665	- na -	- na -	289,164	- na -	- na -
O'Neill Forebay J/	- na - <u>11/</u>	- na -	- na -	2,034	- na -	- na -
San Luis and Coalinga Canal	- na -	1,129,847	11,591	- na -	- na -	666,791
Cross Valley Canal	- na -	1,001	41 <u>5/</u>	- na -	- na -	- na -
San Felipe Service Area (Pacheco Tunnel)	- na -	48,089	63,155	- na -	- na -	759 <u>21/</u>
Mendota Pool						
Mendota Pool and vicinity <u>7/ 8/</u>	- na -	49,455	- na -	- na -	- na -	32,466 <u>9/</u>
Waterfowl Conservation(Reported under San Luis Canal)	- na -	- na -	- na -	- na -	- na -	- nr -
Exchange Contract <u>10/ 8/</u>	- na -	724,940	- na -	- na -	- na -	216,459
Delta and Westside Subtotal	71,665	2,347,863	177,133	291,198	- na -	1,014,500
San Joaquin River						
Millerton Lake and vicinity	19,500	455	148	- na - <u>15/</u>	1,278,808 <u>16/</u>	- na - <u>17/</u>
Interim Restoration (Releases under P.L. 111-11)	- na -	- na -	- na -	- na -	61,165	- na -
Exchange Contract (Recapture under P.L. 111-11)	- na -	29,602	- na -	- na -	- na -	- na - <u>18/</u>
Friant-Kern Canal	- na -	1,236,950	66,487	- na -	- na -	768,461 <u>20/</u>
Madera Canal	- na -	268,609	- na -	- na -	- na -	180,044
San Joaquin River Subtotal	19,500	1,535,616	66,635	- na -	1,339,973	948,505
Total - CVP	320,555	4,838,128	375,525	21,295,858	14,960,302	2,468,348

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 Coelho Family Trust , Dudley, and Fresno Slough Water 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 Plain View WD.
- 20/ Does not include irrigated acreage in Garfield WD, Porterville ID, and Stone Corral ID.
- 21/ Does not include irrigated acreage in San Benito County WD.

J/ Joint State/Federal use facility.

ATTACHMENT TO 2011 PERMITTEE REPORT

Shasta Reservoir

Operations under Application 005626/Permit 012721

spillway elevation	1076.2			
minimum elevation	1017.02	date	12/4/2010	59.18
maximum elevation	1,064.98	date	6/2/2011	11.22
minimum elevation	1,009.70	date	1/17/2012	66.5

	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	93,300.0	340,796.5	434,096.5	92,300.0	433,096.5	8,000.0	4,343.4	9,516.4
Feb	294,100.0	192,475.8	486,575.8	200.0	192,675.8	4,247.0	19,848.5	22,135.5
Mar	437,100.0	257,447.5	694,547.5	189,000.0	446,447.5	8,000.0	18,484.8	26,484.8
Apr	375,400.0	340,153.9	715,553.9	141,300.0	481,453.9	8,000.0	15,202.0	19,512.0
May	220,500.0	456,601.9	677,101.9	3,200.0	459,801.9	8,000.0	8,383.8	13,925.3
Jun	5,400.0	459,188.4	464,588.4	90,700.0	549,888.4	8,000.0	2,272.7	10,272.7
Jul	0.0	273,979.5	273,979.5	366,600.0	640,579.5	4,770.6	0.0	4,770.6
Aug	0.0	201,666.9	201,666.9	415,800.0	617,466.9	3,506.4	0.0	3,506.4
Sep	0.0	196,077.3	196,077.3	278,000.0	474,077.3	4,015.6	0.0	4,015.6
Oct	0.0	225,076.0	225,076.0	114,300.0	339,376.0	4,531.7	0.0	4,531.7
Nov	0.0	241,972.1	241,972.1	76,600.0	318,572.1	5,592.0	0.0	5,592.0
Dec	0.0	217,921.2	217,921.2	55,600.0	273,521.2	5,125.0	0.0	5,125.0
TOTAL	1,425,800.0	3,403,356.9	4,829,156.9	1,823,600.0	5,226,956.9		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.

2011

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.
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
2011	Jan	3,490,200	800	434,833	0	0	434,833	3,217	21,116	1,783	488,486	0	5,227	493,713	73
2011	Feb	3,784,100	294,100	193,016	0	0	193,016	4,284	20,961	-1,550	215,214	0	4,721	219,935	103
2011	Mar	4,032,200	248,100	572,702	0	650,872	1,223,574	4,106	18,912	-2,049	497,371	770,352	5,227	1,272,950	85
2011	Apr	4,266,300	234,000	511,348	0	180,657	692,005	7,478	22,620	3,708	497,365	236,062	5,058	738,485	163
2011	May	4,486,800	220,500	495,863	0	2	495,865	10,887	22,445	-175	514,337	0	5,227	519,564	222
2011	Jun	4,401,500	-85,300	616,396	0	18,915	635,311	12,448	23,358	913	686,352	37,815	5,058	729,225	266
2011	Jul	4,034,900	-366,700	641,712	0	0	641,712	17,128	23,066	-292	752,236	0	4,447	756,683	359
2011	Aug	3,619,100	-416,000	618,558	0	18	618,576	16,128	22,758	-308	703,018	6	0	703,024	387
2011	Sept	3,341,100	-277,700	474,915	0	0	474,915	10,975	22,570	-188	575,864	3,745	0	579,609	282
2011	Oct	3,226,800	-114,400	339,976	0	0	339,976	5,994	20,722	-1,848	457,433	1,277	0	458,710	159
2011	Nov	3,150,200	-76,500	319,135	0	0	319,135	3,394	21,854	1,132	407,345	248	0	407,593	87
2011	Dec	3,094,600	-55,400	274,005	0	0	274,005	3,834	19,384	-2,470	312,754	881	1,527	315,162	101
Total - Water Year			21,900	5,703,134	0	850,464	6,553,598	98,082		-943	6,268,542	1,048,988	36,574	7,354,104	2,196
Total - Calendar Year			-394,500	5,492,459	0	850,464	6,342,923	99,873		-1,344	6,107,775	1,050,386	36,492	7,194,653	2,287

Storage Quantity

Application No. 5625	Date	Storage
Begin storage season 1-Oct-10	10/1/2010	3,314,400
Minimum storage	12/4/2010	1,017,120
Maximum storage	6/2/2011	4,492,200
End of storage season 30-Jun-11	6/30/2011	4,401,500
Diversion to Storage		3,475,080

Application No. 5626	Date	Storage
Begin storage season 1-Oct-10	10/1/2010	3,314,400
Minimum storage	12/4/2010	1,017,120
Maximum storage	6/2/2011	4,492,200
End of storage season 30-Jun-11	6/30/2011	4,401,500
Diversion to Storage		3,475,080

Application No. 9363	Date	Storage
Begin storage season 1-Oct-10	10/1/2010	3,314,400
Minimum storage	12/4/2010	1,017,120
Maximum storage	6/2/2011	4,492,200
End of storage season 1-Jul-11	7/1/2011	4,395,400
Diversion to Storage		0

Application No. 9364	Date	Storage
Begin storage season 1-Jan-11	1/1/2011	3,486,400
Minimum storage	12/4/2010	1,017,120
Maximum storage	6/2/2011	4,492,200
End of storage season 31-Dec-11	12/31/2011	3,489,200
Diversion to Storage		0

Application No. 9365	Date	Storage
Begin storage season 1-Oct-10	10/1/2010	3,314,400
Minimum storage	12/4/2010	1,017,120
Maximum storage	6/2/2011	4,492,200
End of storage season 30-Jun-11	6/30/2011	4,401,500
Diversion to Storage		0