

[SUMMARY OF FINAL SUBMITTED VERSION]**PROGRESS REPORT BY PERMITTEE FOR 2012**

Primary Owner: U.S. BUREAU OF RECLAMATION
 Primary Contact: U.S. BUREAU OF RECLAMATION

Date Submitted: 06/28/2013

Application Number: A005626
 Permit Number: 012721

| Source(s) of Water | POD Parcel Number | County |
|--------------------|-------------------|--------------|
| SACRAMENTO RIVER | | Shasta |
| SACRAMENTO RIVER | | Glenn |
| SACRAMENTO RIVER | | Contra Costa |
| SACRAMENTO RIVER | | Tehama |
| OLD RIVER | | Contra Costa |
| SACRAMENTO RIVER | | Shasta |
| SACRAMENTO RIVER | | Sacramento |

MAX Direct Diversion Rate: 8000 CFS
 MAX Collection to Storage: 3190000 AC-FT
 Face Value: 7998004 AC-FT

| Permitted Use(s) | Acres | Direct Diversion Season | Storage Season |
|---|----------|-------------------------|----------------|
| Municipal | 0 | 09/01 to 06/30 | 10/01 to 06/30 |
| Irrigation | 999999.9 | 09/01 to 06/30 | 10/01 to 06/30 |
| Fish and Wildlife Protection and/or Enhancement | 0 | 09/01 to 06/30 | 10/01 to 06/30 |
| Other | 0 | 09/01 to 06/30 | 10/01 to 06/30 |
| Recreational | 0 | 09/01 to 06/30 | 10/01 to 06/30 |
| Domestic | 0 | 09/01 to 06/30 | 10/01 to 06/30 |
| Stockwatering | 0 | 09/01 to 06/30 | 10/01 to 06/30 |
| Industrial | 0 | 09/01 to 06/30 | 10/01 to 06/30 |

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 | 2006370 Acres Mixed Crop Types |
| Industrial | mixed |
| Municipal | 0 |
| Recreational | Recreational activities at Shasta Lake |
| Stockwatering | incidental |
| Fish and Wildlife Protection and/or Enhancement | Sacramento River, Delta flows |
| Other | water quality |

| 8. Amount of Water Diverted and Used | | |
|--------------------------------------|--|-------------------------|
| Month | Amount directly diverted or collected to storage (Acre-Feet) | Amount used (Acre-Feet) |
| January | 273648.1 | 261948.1 |
| February | 249918.8 | 188018.8 |
| March | 823550.4 | 139350.4 |
| April | 758451.1 | 171751.1 |
| May | 370319.2 | 511119.2 |
| June | 211342.9 | 629942.9 |
| July | 167981.7 | 777681.7 |
| August | 164666 | 641166 |
| September | 155637.5 | 358537.5 |
| October | 155784.6 | 281284.6 |
| November | 388421.2 | 290221.2 |
| December | 921066.4 | 167266.4 |
| Total | 4640787.9 | 4418287.9 |
| Comments | | |

| 9. Maximum Rate of Diversion for each Month | |
|---|---------------------------|
| Month | Maximum Rate of Diversion |
| | |

| | (CFS) |
|-----------|---------|
| January | 9113.1 |
| February | 6936.4 |
| March | 39579.4 |
| April | 27978.2 |
| May | 9167.3 |
| June | 4415.1 |
| July | 2828.7 |
| August | 3267.1 |
| September | 3495.5 |
| October | 4357 |
| November | 43457.7 |
| December | 74942.4 |

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 | 11.53 | No | 97.52 | staff gauge reading |

Conservation of Water

| | |
|---|---|
| 11. Are you now employing water conservation efforts? | Yes |
| Description of water conservation efforts | Reclamation encourages conservation through financial grants. |
| 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

| | |
|---|----|
| 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

Data on municipal population not collected from contractors. Not all irrigated acres reported in time. Breakdown of diversions to storage and direct diversions attached. CVP summary attached.

Attachments

| File Name | Description | Size |
|---|------------------------------|-------|
| CVPSUMMARY2012.pdf | CVP Summary 2012 | 16 KB |
| A005626 Attachment 2012.pdf | Breakdown of 2012 diversions | 37 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 2012
 Inventory of Water Quantities in Acre-feet

SJC-166

| Facilities and Area of Use | Reservoir Evaporation | Irrigation Diversions | M & I Deliveries | Power Use ^{2/} | River Release ^{3/} | Acres Irrigated |
|--|-----------------------|-------------------------------|----------------------|-------------------------|-----------------------------|-----------------------|
| Trinity River | | | | | | |
| Clair Engle Lake and vicinity | 76,680 | - na - | - na - | 1,146,126 | - na - | - na - |
| Lewiston Lake and vicinity | 2,296 | - na - | - na - | 52,904 | 620,826 | - na - |
| Diversions from Lewiston Lake to Whiskeytown Lake | - na - | - na - | - na - | 572,646 | - na - | - na - |
| Trinity River Subtotal | 78,976 | - na - | - na - | 1,771,676 | 620,826 | - na - |
| Clear Creek | | | | | | |
| Whiskeytown Lake ^{4/} | 7,932 | 2,623 | 3,244 | - na - | 140,115 | - na - |
| Diversions - Whiskeytown Lake to Keswick Reservoir | - na - | - na - | - na - | 612,539 | - na - | - na - |
| Clear Creek Subtotal | 7,932 | 2,623 | 3,244 | 612,539 | 140,115 | - na - |
| Sacramento River | | | | | | |
| Shasta Lake | 104,256 | - na - | - na - | 4,425,931 | - na - | - na - |
| Keswick Reservoir | 2,572 | - na - | - na - | 5,403,739 | 37,223 | - na - |
| CVP Redding area (Keswick, Shasta, Bella Vista) | - na - | 5,841 | 19,514 | - na - | - na - | 12,418 |
| Sacramento Valley Canals | - na - | 238,699 | 299 | - na - | - na - | 75,692 ^{5/} |
| Sacramento River Settlement Contractors | - na - | 1,562,416 ^{6/} | 83,820 ^{6/} | - na - | - na - | 333,900 ^{7/} |
| Sacramento River Subtotal | 106,828 | 1,806,956 | 103,633 | 9,829,670 | 37,223 | 422,010 |
| American River | | | | | | |
| Folsom Lake | 30,301 | 0 | 95,565 ^{8/} | 1,745,268 | - na - ^{3/} | 0 |
| Lake Natoma | 1,323 | - na - | - na - | 1,756,645 | 205,673 | - na - |
| Folsom South Canal (from Lake Natoma) | - na - | - na - | 28,850 | - na - | - na - | - na - |
| Lower American River Diversions | - na - | - na - | 44,380 ^{8/} | - na - | - na - | - na - |
| American River Subtotal | 31,624 | 0 | 168,795 | 3,501,913 | 205,673 | 0 |
| Stanislaus River | | | | | | |
| New Melones Lake | 50,845 | - na - | - na - | 936,465 | 452,958 ^{9/} | - na - |
| Stanislaus River ^{10/} | - na - | 520,834 ^{8/} | 45,282 ^{8/} | - na - | - na - | - na - |
| Stanislaus River Subtotal | 50,845 | 520,834 ^{11/} | 45,282 | 936,465 | 452,958 | - na - |

| Facilities and Area of Use | Reservoir Evaporation | Irrigation Diversions | M & I Deliveries | Power Use ^{2/} | River Release ^{3/} | Acres Irrigated |
|---|-----------------------|-----------------------|------------------|-------------------------|-----------------------------|------------------------|
| Delta and Westside of San Joaquin Valley | | | | | | |
| Contra Costa Canal and Contra Loma Reservoir | - na - | 0 | 154,841 | - na - | - na - | 0 |
| Delta Mendota and San Luis Canals | | | | | | |
| Delta-Mendota Canal | - na - | 88,972 | 6,018 | - na - | - na - | 93,411 |
| Waterfowl Conservation | - na - | 132,782 | - na - | - na - | - na - | - na - |
| San Luis Reservoir ^{12/} | 71,862 | - na - | - na - | 1,421,592 | - na - | - na - |
| O'Neill Forebay ^{12/} | - na - ^{13/} | - na - | - na - | 1,544,453 | - na - | - na - |
| San Luis and Coalinga Canal | - na - | 697,827 | 11,722 | - na - | - na - | 502,747 ^{14/} |
| Cross Valley Canal | - na - | 2,215 | 0 ^{8/} | - na - | - na - | - na - |
| San Felipe Service Area (Pacheco Tunnel) | - na - | 67,633 | 91,667 | - na - | - na - | 0 ^{15/} |
| Mendota Pool | | | | | | |
| Mendota Pool and vicinity ^{16/ 17/} | - na - | 49,558 | - na - | - na - | - na - | 32,866 ^{18/} |
| Waterfowl Conservation(Reported under San Luis Canal) | - na - | - na - | - na - | - na - | - na - | - nr - |
| Exchange Contract ^{19/ 17/} | - na - | 640,468 | - na - | - na - | - na - | 219,264 |
| Delta and Westside Subtotal | 71,862 | 1,679,455 | 264,248 | 2,966,045 | - na - | 848,288 |
| San Joaquin River | | | | | | |
| Millerton Lake and vicinity | 20,167 | 0 | 148 | - na - ^{20/} | 296,818 ^{21/} | - na - ^{22/} |
| Interim Restoration (Releases under P.L. 111-11) | - na - | - na - | - na - | - na - | 174,100 | - na - |
| Exchange Contract (Recapture under P.L. 111-11) | - na - | 95,833 | - na - | - na - | - na - | - na - ^{23/} |
| Friant-Kern Canal | - na - | 445,391 | 31,297 | - na - | - na - | 665,058 ^{24/} |
| Madera Canal | - na - | 114,975 | - na - | - na - | - na - | 71,014 ^{25/} |
| San Joaquin River Subtotal | 20,167 | 656,199 | 31,445 | - na - | 470,918 | 736,072 |
| Total - CVP | 368,234 | 4,666,067 | 616,647 | 19,618,308 | 1,927,713 | 2,006,370 |

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

1/ Does not include water quantities and acreage for Black Butte Unit.

2/ Releases made through power generation facilities. Though these releases are totaled, the same water may pass through multiple facilities.

3/ 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. Does not include power releases.

4/ M & I use by Clear Creek Community Service District.

5/ Does not include irrigated acreage in Corning WD, Colusa County WD, or 4-M WD.

6/ Total delivery under water right settlement contracts and contractors water rights.

7/ Does not include irrigated acreage in RD-108, RD-1004, Robert's Ditch IC, Tisdale I&DC, or 4-E WD.

8/ Includes water under water service and water right settlement contracts; some water under contractors water rights.

9/ River release is made at Goodwin Dam.

10/ Water service contract and water right settlement deliveries are made at Goodwin Dam.

11/ Stanislaus River Irrigation Diversions include releases reported from Goodwin Reservoir Daily Operations, Joint Main & South Main Canal Releases.

12/ Joint State/Federal use facility.

13/ The total amount of Reservoir Evaporation is unavailable.

14/ Does not include irrigated acreage in Pacheco WD and Panoche WD.

15/ Districts did not report irrigated acreage in time for this report.

16/ All contractors include water right settlement contractors except Exchange Contractors below

17/ Water diverted directly from San Joaquin River is under water rights of settlement contractors.

18/ Does not include irrigated acreage in Coelho Family Trust , Dudley, Laguna WD, and RD No 1066 (all reported not farming).

19/ Represents the combined irrigation diversions and acres irrigated of Central California Irrigation District, Columbia Canal Co., and San Luis Canal Co.

20/ Generation facilities at Friant Dam and associated water rights are not operated or held by Reclamation.

21/ Releases include water for water right Settlement Contracts between Friant and Gravelly Ford.

22/ Total area in water right settlement contracts.

23/ Acres irrigated incorporated in Mendota Pool figure.

24/ Does not include irrigated acreage in Elano-Earlimart ID, Garfield WD, Pixley ID, and Southern San Joaquin MUD.

25/ Does not include irrigated acreage in Gravelly Ford WD or Madera ID.

ATTACHMENT TO 2012 PERMITTEE REPORT

Shasta Reservoir

Operations under Application 005626/Permit 012721

| | | | | |
|--------------------|----------|------|------------|-------|
| spillway elevation | 1076.2 | | | |
| minimum elevation | 1,009.70 | date | 1/17/2012 | 66.5 |
| maximum elevation | 1,064.67 | date | 5/7/2012 | 11.53 |
| minimum elevation | 978.68 | date | 11/19/2012 | 97.52 |

| | 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 | 62,400.0 | 211,248.1 | 273,648.1 | 50,700.0 | 261,948.1 | 4,143.0 | 5,909.1 | 9,113.1 |
| Feb | 62,600.0 | 187,318.8 | 249,918.8 | 700.0 | 188,018.8 | 4,138.0 | 3,535.4 | 6,936.4 |
| Mar | 684,200.0 | 139,350.4 | 823,550.4 | 0.0 | 139,350.4 | 3,721.0 | 38,939.4 | 39,579.4 |
| Apr | 586,700.0 | 171,751.1 | 758,451.1 | 0.0 | 171,751.1 | 5,241.0 | 27,222.2 | 27,978.2 |
| May | 42,900.0 | 327,419.2 | 370,319.2 | 183,700.0 | 511,119.2 | 7,203.0 | 4,292.9 | 9,167.3 |
| Jun | 0.0 | 211,342.9 | 211,342.9 | 418,600.0 | 629,942.9 | 4,415.1 | 0.0 | 4,415.1 |
| Jul | 0.0 | 167,981.7 | 167,981.7 | 609,700.0 | 777,681.7 | 2,828.7 | 0.0 | 2,828.7 |
| Aug | 0.0 | 164,666.0 | 164,666.0 | 476,500.0 | 641,166.0 | 3,267.1 | 0.0 | 3,267.1 |
| Sep | 0.0 | 155,637.5 | 155,637.5 | 202,900.0 | 358,537.5 | 3,495.5 | 0.0 | 3,495.5 |
| Oct | 0.0 | 155,784.6 | 155,784.6 | 125,500.0 | 281,284.6 | 2,962.7 | 0.0 | 4,357.0 |
| Nov | 174,800.0 | 213,621.2 | 388,421.2 | 76,600.0 | 290,221.2 | 5,274.0 | 42,070.7 | 43,457.7 |
| Dec | 753,800.0 | 167,266.4 | 921,066.4 | 0.0 | 167,266.4 | 4,699.0 | 73,939.4 | 74,942.4 |
| TOTAL | 2,367,400.0 | 2,273,388.0 | 4,640,788.0 | 2,144,900.0 | 4,418,288.0 | | 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

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.