# CENTRAL VALLEY PROJECT
## SCHEDULE OF ESTIMATED M&I PROJECT USE ENERGY COSTS
## DIRECT PUMPING
## 2011 M&I WATER RATES

| A | B | C | D | E | F | G | H | I | J | K |
|---|---|---|---|---|---|---|---|---|---|---|
| | Projected 2011 Deliveries (Schedule A-12) | | | | | | | | | |
| | Contra Costa PP | Dos Amigos PP | Pleasant Valley PP | San Luis WD Relifts | State-Delta PP | T-C Canal Relifts | | Westlands WD Relifts | Wintu PP | Shasta PP |
| | | | | | | Colusa County WD | Kanawha WD | | | |
| Ref | <Sch A-12> | <Sch A-12> | <Sch A-12> | <Sch A-12> | <Sch A-12> | <Sch A-12> | <Sch A-12> | <Sch A-12> | <Sch A-12> | <Sch A-12> |
| **Contra Costa Canal** | | | | | | | | | | |
| Contra Costa WD | 87,340 | | | | | | | | | |
| **Cow Creek Unit** | | | | | | | | | | |
| Bella Vista WD | | | | | | | | | 2,315 | |
| **Cross Valley Canal** 4/ | | | | | | | | | | |
| County of Fresno | | 300 | | | 300 | | | | | |
| County of Tulare | | 673 | | | 673 | | | | | |
| **San Luis Canal - Fresno** | | | | | | | | | | |
| City of Coalinga | | | 6,774 | | | | | | | |
| Westlands WD | | | | | | | | 3,020 | | |
| **San Luis Canal - Tracy** | | | | | | | | | | |
| San Luis WD | | | | 620 | | | | | | |
| **Tehama-Colusa Canal** | | | | | | | | | | |
| Colusa County WD | | | | | | 113 | | | | |
| Kanawha WD | | | | | | | 4 | | | |
| **Toyon Pipeline** | | | | | | | | | | |
| City of Shasta Lake | | | | | | | | | | 2,555 |
| 2011 Deliveries | 87,340 | 973 | 6,774 | 620 | 973 | 113 | 4 | 3,020 | 2,315 | 2,555 |
| Est. FY 2011 Costs | $ 699,419 | $ 2,181 | $ 31,086 | $ 7,233 | $ 2,142 | $ 886 | $ 4 | $ 8,683 | $27,719 | $ 40,212 |
| Cost Per A/F | $ 8.01 | $ 2.24 | $ 4.59 | $ 11.67 | $ 2.20 | $ 7.88 | $ 0.94 | $ 2.88 | $ 11.97 | $ 15.74 |

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| | | Acre-Feet | | Ratio of Acre-Feet | | | | For Water Ratesetting | |
|---|---|---|---|---|---|---|---|---|---|
| | | M&I | Irrigation | M&I | Irrigation | Total | Total $ | M&I | Irrigation |
| **Used in Schedule A-10** | | | | | | | | | |
| **Storage:** | | | | | | | | | |
| Friant D&R | 1/ | 174 | N/A | 100.00% | - | 100.00% | $ 12,344 | $ 12,344 | $ - |
| Shasta D&R (Includes Jdg F Carr PH) | | 1,745 | 3,155 | 35.61% | 64.39% | 100.00% | $ 176,147 | $ 62,734 | $ 113,413 |
| Columbia Mowry (Based on Avg. KWH's) | | 79,381 | 562,166 | 12.37% | 87.63% | 100.00% | $ 14,363 | $ 1,777 | $ 12,585 |
| Folsom Pump Plant | | 42,415 | N/A | 100.00% | - | 100.00% | $ 141,744 | $ 141,744 | $ - |
| New Melones Dam & Reservoir | | N/A | 34,789 | - | 100.00% | 100.00% | $ 2,643 | $ - | $ 2,643 |
| Gianelli WR Pump-Gen Plt | 2/ | 9,989 | 539,782 | 1.82% | 98.18% | 100.00% | $ 2,184,530 | $ 39,693 | $ 2,144,837 |
| Regen. Credit - San Luis PP | | 9,989 | 539,782 | 1.82% | 98.18% | 100.00% | $ (1,743,342) | $ (31,676) | $ (1,711,666) |
| SFU Gianelli WR PGP (Direct Pumping) | | 91,543 | 34,870 | 72.42% | 27.58% | 100.00% | $ - | $ - | $ - |
| **Conveyance Pumping:** | | | | | | | | | |
| Corning Pump Plant | | N/A | 16,336 | - | 100.00% | 100.00% | $ 183,695 | $ - | $ 183,695 |
| Dos Amigos Pump Plant | 3/ | 13,677 | 766,396 | 1.75% | 98.25% | 100.00% | $ 1,749,806 | $ 30,680 | $ 1,719,126 |
| O'Neill Pump-Gen Plt | | 105,813 | 805,987 | 11.60% | 88.40% | 100.00% | $ 1,391,210 | $ 161,448 | $ 1,229,761 |
| Regen. Credit - O'Neill Pump-Gen Plt | | 105,813 | 805,987 | 11.60% | 88.40% | 100.00% | $ (155,574) | $ (18,054) | $ (137,520) |
| Jones Pump Plant | | 186,187 | 1,783,759 | 9.45% | 90.55% | 100.00% | $ 10,742,612 | $ 1,015,324 | $ 9,727,288 |
| In-Lieu of Tracy Pumping | | - | - | - | - | - | $ 120,557 | $ - | $ 120,557 |
| **Out-of-Basin Pumping:** | | | | | | | | | |
| Coyote PP | | 43,610 | 9,396 | 82.27% | 17.73% | 100.00% | $ 155,863 | $ 128,235 | $ 27,628 |
| Pacheco PP | | 91,543 | 34,870 | 72.42% | 27.58% | 100.00% | $ 1,280,611 | $ 927,366 | $ 353,245 |
| **Used in Schedule A-11 Page 1** | | | | | | | | | |
| **Direct Pumping:** | | | | | | | | | |
| Glenn Valley WD | | N/A | 930 | - | 100.00% | 100.00% | $ - | $ - | $ - |
| Gianelli PGP - SFU | | 9,989 | 539,782 | 1.82% | 98.18% | 100.00% | $ 502,304 | $ 363,748 | $ 138,556 |
| Contra Costa PP | | 87,340 | N/A | 100.00% | - | 100.00% | $ 699,419 | $ 699,419 | $ - |
| Colusa CWD (Incl. Arb./Will O&M Office) | | 113 | 36,779 | 0.30% | 99.70% | 100.00% | $ 290,650 | $ 886 | $ 289,764 |
| Corning WD | | N/A | 11,110 | - | 100.00% | 100.00% | $ 45,040 | $ - | $ 45,040 |
| Dunnigan WD | | N/A | 12,106 | - | 100.00% | 100.00% | $ 4,557 | $ - | $ 4,557 |
| Kanawha WD | | 4 | 28,693 | 0.01% | 99.99% | 100.00% | $ 26,989 | $ 4 | $ 26,985 |
| Orland-Artois WD | | N/A | 32,714 | - | 100.00% | 100.00% | $ 47,793 | $ - | $ 47,793 |
| Panoche WD - SLC | | N/A | 41,479 | - | 100.00% | 100.00% | $ 990 | $ - | $ 990 |
| Westside WD | | N/A | 38,073 | - | 100.00% | 100.00% | $ 18,774 | $ - | $ 18,774 |
| Pleasant Valley PP | | 6,774 | 55,387 | 10.90% | 89.10% | 100.00% | $ 285,241 | $ 31,086 | $ 254,155 |
| Pleasant Valley Relifts | | N/A | 12,963 | - | 100.00% | 100.00% | $ 41,068 | $ - | $ 41,068 |
| Proberta WD | | N/A | 2,244 | - | 100.00% | 100.00% | $ 15,217 | $ - | $ 15,217 |
| San Luis WD Relifts | | 620 | 46,286 | 1.32% | 98.68% | 100.00% | $ 547,183 | $ 7,233 | $ 539,950 |
| State-Delta PP - Cross Valley Canal | | 973 | 31,591 | 2.99% | 97.01% | 100.00% | $ 71,741 | $ 2,142 | $ 69,598 |
| Westlands WD Relifts | | 3,020 | 609,261 | 0.49% | 99.51% | 100.00% | $ 1,760,435 | $ 8,683 | $ 1,751,752 |
| Wintu PP | | 2,315 | 7,693 | 23.13% | 76.87% | 100.00% | $ 119,815 | $ 27,719 | $ 92,096 |
| City of Shasta Lake (Shasta PP) | | 2,555 | N/A | 100.00% | - | 100.00% | $ 40,212 | $ 40,212 | $ - |
| Dos Amigos PP - Cross Valley Canal | | - | - | - | - | - | $ 73,045 | $ 2,181 | $ 70,864 |
| Reimbursable Billing | | - | - | - | - | - | $ 6,813 | $ - | $ - |
| Project General | | - | - | - | - | - | $ 10,281 | $ - | $ - |
| Nonreimbursable F&W | | - | - | - | - | - | $ 35,225 | $ - | $ - |
| | | | | | | | $ 20,900,000 | $ 3,654,928 | $ 17,192,752 |

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## DIRECT PUMPING
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FOOTNOTES

1/ Irrigation contractor receives class 2 water which is not charged for the storage component.

2/ According to MP-2810 (CB 06/93) only 70% of San Luis Canal Deliveries are stored in B.F. Sisk San Luis Reservoir and, therefore, require pumping by the WR Gianelli Pump-Generator.

3/ Excludes estimated San Luis WD deliveries before Dos Amigos. The calculation reflects the relationship between actual deliveries versus actual exclusions over a five year period.

| | |
|---|---|
| | 620 |
| Less | 593 |
| | 27 |

| | M&I Deliveries * | | | |
|---|---|---|---|---|
| | Total | Excluded | Ratio | Estimated Exclusion |
| 2005 | 822 | 781 | | |
| 2006 | 1,367 | 1,319 | | |
| 2007 | 1,212 | 1,164 | | |
| 2008 | 1,123 | 1,078 | | |
| 2009 | 737 | 688 | | |
| | 5,261 | 5,030 | 0.956092 | 593 |

14,270 - 593 = 13,677

* Provided annually by Stacey Smith, CVOCO. Refer to Pool_09.xls.

4/ Delivery Base has been modified. See Footnote 5/ on Schedule A-12 and associated MP-3400 Standard Operating Procedure (SOP). Refer to IRR Sch A-11 for allocation of costs between Irrigation and M&I.