
ATTACHMENT P

Energy Analysis Worksheets

This attachment contains worksheets with calculations used for the energy resources analysis in this FEIS.

Table 1
Average Lake Powell Elevation

| Average Water Surface Elevation (feet msl) | | | | | | | Comparison to Baseline (feet msl) | | | | |
|--|---------------------|---------------------------|------------------------|--------------------------|------------------------|---------------------------------|-----------------------------------|------------------------|--------------------------|------------------------|---------------------------------|
| Year | Baseline Conditions | Flood Control Alternative | Six States Alternative | Basin States Alternative | California Alternative | Shortage Protection Alternative | Flood Control Alternative | Six States Alternative | Basin States Alternative | California Alternative | Shortage Protection Alternative |
| 2002 | 3,685 | 3,685 | 3,682 | 3,682 | 3,678 | 3,679 | 0 | -3 | -3 | -6 | -6 |
| 2003 | 3,685 | 3,685 | 3,682 | 3,682 | 3,678 | 3,679 | 0 | -3 | -3 | -6 | -6 |
| 2004 | 3,684 | 3,684 | 3,682 | 3,681 | 3,675 | 3,677 | 0 | -3 | -3 | -9 | -8 |
| 2005 | 3,683 | 3,683 | 3,678 | 3,677 | 3,671 | 3,672 | 0 | -5 | -5 | -12 | -11 |
| 2006 | 3,680 | 3,680 | 3,674 | 3,675 | 3,667 | 3,668 | 0 | -6 | -5 | -13 | -12 |
| 2007 | 3,679 | 3,679 | 3,672 | 3,672 | 3,663 | 3,664 | 0 | -7 | -7 | -16 | -15 |
| 2008 | 3,678 | 3,678 | 3,672 | 3,672 | 3,663 | 3,663 | 0 | -6 | -6 | -15 | -15 |
| 2009 | 3,676 | 3,676 | 3,669 | 3,669 | 3,660 | 3,660 | 0 | -7 | -7 | -16 | -16 |
| 2010 | 3,674 | 3,674 | 3,667 | 3,666 | 3,656 | 3,655 | 0 | -7 | -8 | -18 | -19 |
| 2011 | 3,670 | 3,670 | 3,663 | 3,662 | 3,653 | 3,652 | 0 | -7 | -8 | -17 | -18 |
| 2012 | 3,668 | 3,668 | 3,661 | 3,661 | 3,651 | 3,650 | 0 | -7 | -7 | -16 | -18 |
| 2013 | 3,661 | 3,661 | 3,653 | 3,652 | 3,650 | 3,649 | 0 | -8 | -9 | -11 | -12 |
| 2014 | 3,658 | 3,658 | 3,651 | 3,652 | 3,650 | 3,650 | 0 | -7 | -6 | -8 | -8 |
| 2015 | 3,655 | 3,655 | 3,652 | 3,652 | 3,651 | 3,650 | 0 | -3 | -3 | -4 | -4 |
| 2016 | 3,653 | 3,654 | 3,653 | 3,653 | 3,652 | 3,652 | 0 | 0 | 0 | -2 | -2 |
| 2017 | 3,655 | 3,655 | 3,654 | 3,654 | 3,652 | 3,652 | 0 | -1 | -1 | -3 | -3 |
| 2018 | 3,655 | 3,655 | 3,654 | 3,654 | 3,653 | 3,653 | 0 | -1 | -1 | -2 | -2 |
| 2019 | 3,656 | 3,656 | 3,655 | 3,655 | 3,655 | 3,655 | 0 | -1 | -1 | -1 | -1 |
| 2020 | 3,658 | 3,658 | 3,657 | 3,657 | 3,657 | 3,657 | 0 | -1 | -1 | -1 | -1 |
| 2021 | 3,658 | 3,658 | 3,658 | 3,658 | 3,658 | 3,658 | 0 | 0 | 0 | 0 | 0 |
| 2022 | 3,660 | 3,660 | 3,659 | 3,659 | 3,658 | 3,658 | 0 | -1 | -1 | -2 | -2 |
| 2023 | 3,660 | 3,660 | 3,659 | 3,659 | 3,659 | 3,659 | 0 | -2 | -2 | -2 | -2 |
| 2024 | 3,659 | 3,659 | 3,659 | 3,659 | 3,657 | 3,657 | 0 | 0 | 0 | -2 | -2 |
| 2025 | 3,661 | 3,661 | 3,661 | 3,661 | 3,660 | 3,660 | 0 | 0 | 0 | -1 | -1 |
| 2026 | 3,662 | 3,662 | 3,661 | 3,660 | 3,658 | 3,658 | 0 | -1 | -1 | -4 | -4 |
| 2027 | 3,662 | 3,662 | 3,658 | 3,658 | 3,658 | 3,658 | 0 | -4 | -4 | -4 | -4 |
| 2028 | 3,659 | 3,659 | 3,659 | 3,659 | 3,659 | 3,659 | 0 | 0 | 0 | 0 | 0 |
| 2029 | 3,660 | 3,660 | 3,660 | 3,660 | 3,660 | 3,660 | 0 | 0 | 0 | 0 | 0 |
| 2030 | 3,661 | 3,661 | 3,661 | 3,661 | 3,661 | 3,661 | 0 | 0 | 0 | 0 | 0 |
| 2031 | 3,661 | 3,661 | 3,661 | 3,661 | 3,661 | 3,661 | 0 | 0 | 0 | 0 | 0 |
| 2032 | 3,663 | 3,663 | 3,663 | 3,663 | 3,663 | 3,663 | 0 | 0 | 0 | 0 | 0 |
| 2033 | 3,664 | 3,664 | 3,664 | 3,664 | 3,664 | 3,664 | 0 | 0 | 0 | 0 | 0 |
| 2034 | 3,664 | 3,664 | 3,664 | 3,664 | 3,664 | 3,664 | 0 | 0 | 0 | 0 | 0 |
| 2035 | 3,665 | 3,665 | 3,665 | 3,665 | 3,665 | 3,665 | 0 | 0 | 0 | 0 | 0 |
| 2036 | 3,666 | 3,666 | 3,666 | 3,666 | 3,666 | 3,666 | 0 | 0 | 0 | 0 | 0 |
| 2037 | 3,666 | 3,666 | 3,666 | 3,666 | 3,666 | 3,666 | 0 | 0 | 0 | 0 | 0 |
| 2038 | 3,668 | 3,668 | 3,668 | 3,668 | 3,668 | 3,668 | 0 | 0 | 0 | 0 | 0 |
| 2039 | 3,668 | 3,668 | 3,668 | 3,668 | 3,668 | 3,668 | 0 | 0 | 0 | 0 | 0 |
| 2040 | 3,667 | 3,667 | 3,667 | 3,667 | 3,667 | 3,667 | 0 | 0 | 0 | 0 | 0 |
| 2041 | 3,669 | 3,669 | 3,668 | 3,668 | 3,667 | 3,667 | 0 | 0 | 0 | -1 | -1 |
| 2042 | 3,667 | 3,667 | 3,667 | 3,667 | 3,666 | 3,666 | 0 | 0 | -1 | -2 | -2 |
| 2043 | 3,668 | 3,667 | 3,668 | 3,668 | 3,668 | 3,668 | 0 | 0 | 0 | 0 | 0 |
| 2044 | 3,666 | 3,666 | 3,666 | 3,666 | 3,666 | 3,666 | 0 | 0 | 0 | 0 | 0 |
| 2045 | 3,664 | 3,664 | 3,663 | 3,663 | 3,663 | 3,663 | 0 | -2 | -2 | -2 | -2 |
| 2046 | 3,665 | 3,666 | 3,665 | 3,665 | 3,665 | 3,665 | 1 | 0 | 0 | 0 | 0 |
| 2047 | 3,662 | 3,662 | 3,662 | 3,662 | 3,662 | 3,662 | 0 | 0 | 0 | 0 | 0 |
| 2048 | 3,662 | 3,662 | 3,662 | 3,662 | 3,662 | 3,662 | 0 | 0 | 0 | 0 | 0 |
| 2049 | 3,660 | 3,660 | 3,660 | 3,660 | 3,660 | 3,660 | 0 | 0 | 0 | 0 | 0 |
| 2050 | 3,661 | 3,661 | 3,661 | 3,661 | 3,661 | 3,661 | 0 | 0 | 0 | 0 | 0 |
| AVERAGE: | | | | | | | | | | | |
| 2002-2016 | 3,672 | 3,673 | 3,667 | 3,667 | 3,661 | 3,661 | 0 | -5 | -5 | -11 | -11 |
| 2017-2050 | 3,662 | 3,662 | 3,662 | 3,662 | 3,662 | 3,662 | 0 | 0 | 0 | -1 | -1 |
| 2002-2050 | 3,666 | 3,666 | 3,664 | 3,664 | 3,662 | 3,662 | 0 | -2 | -2 | -4 | -4 |

Table 2

Average Lake Mead Elevation and Comparison of SNWA Pumping Power Costs

| Average Water Surface Elevation (feet msl) | | | | | | | Comparison to Baseline (feet msl) | | | | | Pumping Power Cost Comparison to Baseline | | | | |
|--|---------------------|---------------------------|------------------------|--------------------------|------------------------|---------------------------------|-----------------------------------|------------------------|--------------------------|------------------------|---------------------------------|---|------------------------|--------------------------|------------------------|---------------------------------|
| Year | Baseline Conditions | Flood Control Alternative | Six States Alternative | Basin States Alternative | California Alternative | Shortage Protection Alternative | Flood Control Alternative | Six States Alternative | Basin States Alternative | California Alternative | Shortage Protection Alternative | Flood Control Alternative | Six States Alternative | Basin States Alternative | California Alternative | Shortage Protection Alternative |
| 2002 | 1,191 | 1,191 | 1,187 | 1,187 | 1,182 | 1,183 | 0 | -4 | -4 | -9 | -8 | \$0 | \$117,320 | \$124,320 | \$253,120 | \$222,600 |
| 2003 | 1,191 | 1,191 | 1,187 | 1,187 | 1,182 | 1,183 | 0 | -4 | -4 | -9 | -8 | \$0 | \$117,320 | \$124,320 | \$253,120 | \$222,600 |
| 2004 | 1,189 | 1,192 | 1,186 | 1,186 | 1,178 | 1,180 | 2 | -3 | -3 | -11 | -9 | -\$67,480 | \$81,200 | \$92,960 | \$305,760 | \$251,720 |
| 2005 | 1,190 | 1,191 | 1,183 | 1,184 | 1,176 | 1,178 | 1 | -6 | -5 | -14 | -12 | -\$24,920 | \$178,640 | \$152,880 | \$392,840 | \$330,400 |
| 2006 | 1,184 | 1,187 | 1,179 | 1,180 | 1,169 | 1,170 | 2 | -5 | -5 | -16 | -14 | -\$68,040 | \$150,920 | \$130,480 | \$434,560 | \$395,080 |
| 2007 | 1,182 | 1,183 | 1,176 | 1,176 | 1,167 | 1,168 | 1 | -6 | -6 | -15 | -14 | -\$28,840 | \$167,720 | \$175,000 | \$424,760 | \$404,040 |
| 2008 | 1,183 | 1,183 | 1,176 | 1,175 | 1,166 | 1,164 | 0 | -7 | -8 | -17 | -19 | \$0 | \$186,480 | \$210,000 | \$475,440 | \$536,200 |
| 2009 | 1,179 | 1,179 | 1,173 | 1,172 | 1,161 | 1,163 | 0 | -6 | -7 | -19 | -16 | \$280 | \$170,240 | \$191,240 | \$518,000 | \$453,320 |
| 2010 | 1,180 | 1,180 | 1,171 | 1,171 | 1,159 | 1,154 | 1 | -9 | -9 | -21 | -25 | -\$16,520 | \$248,640 | \$246,680 | \$575,960 | \$703,920 |
| 2011 | 1,175 | 1,175 | 1,168 | 1,167 | 1,152 | 1,151 | 0 | -8 | -8 | -23 | -24 | -\$3,640 | \$212,240 | \$235,760 | \$636,160 | \$666,400 |
| 2012 | 1,174 | 1,175 | 1,164 | 1,163 | 1,151 | 1,149 | 1 | -10 | -11 | -23 | -26 | -\$19,040 | \$281,120 | \$309,680 | \$652,400 | \$715,400 |
| 2013 | 1,169 | 1,172 | 1,158 | 1,158 | 1,145 | 1,143 | 3 | -11 | -11 | -24 | -26 | -\$75,040 | \$301,840 | \$307,720 | \$681,520 | \$734,720 |
| 2014 | 1,166 | 1,172 | 1,157 | 1,156 | 1,135 | 1,142 | 7 | -9 | -10 | -30 | -23 | -\$187,040 | \$251,160 | \$266,000 | \$843,920 | \$651,000 |
| 2015 | 1,170 | 1,170 | 1,157 | 1,155 | 1,136 | 1,139 | 0 | -12 | -14 | -33 | -31 | \$0 | \$346,640 | \$404,040 | \$932,680 | \$854,560 |
| 2016 | 1,163 | 1,163 | 1,149 | 1,146 | 1,135 | 1,133 | 0 | -15 | -17 | -28 | -30 | \$0 | \$410,200 | \$469,840 | \$792,400 | \$847,560 |
| 2017 | 1,160 | 1,160 | 1,146 | 1,144 | 1,131 | 1,130 | 0 | -14 | -16 | -29 | -30 | \$0 | \$394,520 | \$450,520 | \$808,080 | \$851,760 |
| 2018 | 1,156 | 1,157 | 1,139 | 1,137 | 1,129 | 1,136 | 1 | -17 | -19 | -27 | -20 | -\$21,840 | \$464,240 | \$527,800 | \$752,920 | \$552,440 |
| 2019 | 1,152 | 1,152 | 1,141 | 1,138 | 1,127 | 1,131 | 0 | -11 | -14 | -25 | -21 | \$0 | \$313,040 | \$378,840 | \$686,840 | \$580,440 |
| 2020 | 1,152 | 1,152 | 1,138 | 1,142 | 1,127 | 1,131 | 0 | -13 | -9 | -25 | -20 | \$0 | \$370,720 | \$255,920 | \$696,360 | \$568,680 |
| 2021 | 1,144 | 1,144 | 1,135 | 1,135 | 1,123 | 1,127 | 0 | -9 | -9 | -21 | -17 | \$0 | \$258,720 | \$264,600 | \$598,640 | \$479,920 |
| 2022 | 1,141 | 1,141 | 1,131 | 1,132 | 1,122 | 1,125 | 0 | -10 | -9 | -19 | -16 | \$0 | \$286,720 | \$256,760 | \$535,920 | \$444,360 |
| 2023 | 1,136 | 1,136 | 1,129 | 1,128 | 1,118 | 1,126 | 0 | -7 | -8 | -18 | -10 | \$0 | \$200,200 | \$213,360 | \$493,080 | \$266,280 |
| 2024 | 1,135 | 1,135 | 1,131 | 1,131 | 1,119 | 1,128 | 0 | -4 | -4 | -16 | -7 | -\$9,520 | \$111,160 | \$120,680 | \$452,200 | \$197,400 |
| 2025 | 1,134 | 1,133 | 1,128 | 1,128 | 1,119 | 1,123 | -1 | -7 | -7 | -15 | -12 | \$28,280 | \$189,840 | \$182,280 | \$424,200 | \$327,040 |
| 2026 | 1,131 | 1,132 | 1,128 | 1,128 | 1,118 | 1,118 | 0 | -4 | -4 | -13 | -13 | -\$5,600 | \$101,360 | \$103,600 | \$371,840 | \$368,200 |
| 2027 | 1,130 | 1,131 | 1,128 | 1,128 | 1,123 | 1,124 | 2 | -2 | -2 | -7 | -6 | -\$42,280 | \$42,000 | \$44,800 | \$186,760 | \$165,760 |
| 2028 | 1,127 | 1,128 | 1,127 | 1,126 | 1,122 | 1,122 | 1 | 0 | -1 | -5 | -5 | -\$19,600 | \$7,000 | \$25,200 | \$151,200 | \$139,160 |
| 2029 | 1,128 | 1,130 | 1,128 | 1,126 | 1,121 | 1,123 | 2 | 0 | -2 | -7 | -5 | -\$59,920 | \$2,520 | \$60,200 | \$205,240 | \$143,080 |
| 2030 | 1,126 | 1,126 | 1,123 | 1,123 | 1,122 | 1,122 | 0 | -3 | -3 | -3 | -4 | -\$10,640 | \$78,960 | \$85,960 | \$95,480 | \$99,960 |
| 2031 | 1,124 | 1,126 | 1,123 | 1,123 | 1,121 | 1,120 | 1 | -1 | -1 | -4 | -4 | -\$40,600 | \$35,000 | \$35,000 | \$101,920 | \$115,080 |
| 2032 | 1,122 | 1,128 | 1,122 | 1,122 | 1,120 | 1,119 | 6 | 0 | 0 | -2 | -2 | -\$174,160 | \$1,680 | \$4,200 | \$58,240 | \$65,800 |
| 2033 | 1,123 | 1,123 | 1,121 | 1,121 | 1,119 | 1,119 | 0 | -2 | -2 | -4 | -4 | -\$10,360 | \$52,080 | \$52,080 | \$120,680 | \$123,200 |
| 2034 | 1,122 | 1,122 | 1,120 | 1,118 | 1,118 | 1,118 | 0 | -2 | -4 | -4 | -4 | -\$3,920 | \$56,560 | \$111,160 | \$117,600 | \$120,960 |
| 2035 | 1,122 | 1,121 | 1,121 | 1,121 | 1,120 | 1,120 | -1 | -1 | -1 | -2 | -2 | \$29,680 | \$16,800 | \$24,080 | \$43,120 | \$46,200 |
| 2036 | 1,121 | 1,123 | 1,121 | 1,121 | 1,120 | 1,121 | 2 | 0 | 0 | -1 | 0 | -\$53,200 | \$0 | \$0 | \$35,000 | \$0 |
| 2037 | 1,119 | 1,120 | 1,119 | 1,119 | 1,116 | 1,118 | 1 | 0 | 0 | -3 | -1 | -\$24,080 | \$11,760 | \$8,120 | \$79,520 | \$24,920 |
| 2038 | 1,120 | 1,120 | 1,120 | 1,120 | 1,116 | 1,116 | 0 | 0 | 0 | -4 | -4 | \$0 | \$2,800 | \$2,800 | \$106,680 | \$110,040 |
| 2039 | 1,120 | 1,119 | 1,120 | 1,120 | 1,120 | 1,120 | 0 | 0 | 0 | 1 | 0 | \$10,920 | -\$4,760 | \$0 | -\$15,120 | \$0 |
| 2040 | 1,118 | 1,118 | 1,118 | 1,118 | 1,118 | 1,118 | 0 | 0 | 0 | 0 | 0 | \$0 | \$0 | \$0 | -\$3,640 | \$0 |
| 2041 | 1,115 | 1,119 | 1,115 | 1,115 | 1,116 | 1,115 | 4 | 0 | 0 | 1 | 0 | -\$104,440 | \$0 | \$0 | -\$19,320 | \$0 |
| 2042 | 1,117 | 1,117 | 1,117 | 1,117 | 1,118 | 1,117 | 0 | 0 | 0 | 1 | 0 | \$10,360 | \$0 | \$0 | -\$14,280 | \$0 |
| 2043 | 1,113 | 1,116 | 1,113 | 1,113 | 1,114 | 1,113 | 3 | 0 | 0 | 1 | 0 | -\$81,760 | \$0 | \$0 | -\$17,080 | \$0 |
| 2044 | 1,113 | 1,113 | 1,113 | 1,113 | 1,113 | 1,113 | 0 | 0 | 0 | 0 | 0 | \$0 | \$0 | \$0 | -\$4,480 | \$0 |
| 2045 | 1,109 | 1,109 | 1,109 | 1,109 | 1,109 | 1,109 | 0 | 0 | 0 | 0 | 0 | \$840 | \$0 | \$0 | -\$4,480 | \$0 |
| 2046 | 1,109 | 1,112 | 1,109 | 1,109 | 1,110 | 1,109 | 3 | 0 | 0 | 1 | 0 | -\$80,360 | \$0 | \$0 | -\$16,800 | \$0 |
| 2047 | 1,111 | 1,113 | 1,111 | 1,111 | 1,111 | 1,111 | 2 | 0 | 0 | 1 | 0 | -\$55,720 | \$0 | \$0 | -\$21,000 | \$0 |
| 2048 | 1,113 | 1,113 | 1,113 | 1,113 | 1,113 | 1,113 | 0 | 0 | 0 | 0 | 0 | \$560 | \$0 | \$0 | -\$4,480 | \$0 |
| 2049 | 1,113 | 1,112 | 1,113 | 1,113 | 1,113 | 1,113 | 0 | 0 | 0 | 0 | 0 | \$1,960 | \$0 | \$0 | -\$4,200 | \$0 |
| 2050 | 1,110 | 1,110 | 1,110 | 1,110 | 1,111 | 1,110 | 0 | 0 | 0 | 0 | 0 | \$560 | \$0 | \$0 | -\$4,480 | \$0 |
| AVERAGE: | | | | | | | | | | | | | | | | |
| 2002-2016 | 1,179 | 1,180 | 1,171 | 1,171 | 1,160 | 1,160 | 1 | -8 | -8 | -19 | -19 | -\$32,685 | \$214,779 | \$229,395 | \$544,843 | \$532,635 |
| 2017-2050 | 1,126 | 1,127 | 1,123 | 1,123 | 1,119 | 1,120 | 1 | -3 | -3 | -7 | -6 | -\$21,025 | \$88,027 | \$94,352 | \$205,652 | \$170,314 |
| 2002-2050 | 1,142 | 1,143 | 1,138 | 1,137 | 1,131 | 1,132 | 1 | -5 | -5 | -11 | -10 | -\$24,594 | \$126,829 | \$135,691 | \$309,486 | \$281,229 |

Table 3

Glen Canyon Dam
Discharge Multipliers and Powerplant Capacity vs. Elevation

| Elevation | Multiplier | Capacity (MW) | Elevation | Multiplier | Capacity (MW) |
|-----------|------------|---------------|-----------|------------|---------------|
| 3701 | 23.80692 | 1,050 | 3650 | 26.20153 | 954 |
| 3700 | 23.84850 | 1,048 | 3649 | 26.25307 | 952 |
| 3699 | 23.89344 | 1,046 | 3648 | 26.30384 | 950 |
| 3698 | 23.93840 | 1,044 | 3647 | 26.35538 | 949 |
| 3697 | 23.98306 | 1,042 | 3646 | 26.40615 | 947 |
| 3696 | 24.02769 | 1,040 | 3645 | 26.45692 | 945 |
| 3695 | 24.07231 | 1,039 | 3644 | 26.50769 | 943 |
| 3694 | 24.11692 | 1,037 | 3643 | 26.55846 | 941 |
| 3693 | 24.16154 | 1,035 | 3642 | 26.60923 | 940 |
| 3692 | 24.20538 | 1,033 | 3641 | 26.66000 | 938 |
| 3691 | 24.25000 | 1,031 | 3640 | 26.71000 | 936 |
| 3690 | 24.29384 | 1,029 | 3639 | 26.76692 | 934 |
| 3689 | 24.33846 | 1,027 | 3638 | 26.82384 | 932 |
| 3688 | 24.38231 | 1,025 | 3637 | 26.88000 | 930 |
| 3687 | 24.42615 | 1,023 | 3636 | 26.93692 | 928 |
| 3686 | 24.47000 | 1,022 | 3635 | 26.99307 | 926 |
| 3685 | 24.51384 | 1,020 | 3634 | 27.04923 | 924 |
| 3684 | 24.55769 | 1,018 | 3633 | 27.10538 | 922 |
| 3683 | 24.60076 | 1,016 | 3632 | 27.16076 | 920 |
| 3682 | 24.64461 | 1,014 | 3631 | 27.21692 | 919 |
| 3681 | 24.68846 | 1,013 | 3630 | 27.27307 | 917 |
| 3680 | 24.73153 | 1,011 | 3629 | 27.32846 | 915 |
| 3679 | 24.78000 | 1,009 | 3628 | 27.38384 | 913 |
| 3678 | 24.82846 | 1,007 | 3627 | 27.43923 | 911 |
| 3677 | 24.87692 | 1,005 | 3626 | 27.49461 | 909 |
| 3676 | 24.92461 | 1,003 | 3625 | 27.55000 | 907 |
| 3675 | 24.97307 | 1,001 | 3624 | 27.60461 | 906 |
| 3674 | 25.02077 | 999 | 3623 | 27.66000 | 904 |
| 3673 | 25.06846 | 997 | 3622 | 27.71461 | 902 |
| 3672 | 25.11615 | 995 | 3621 | 27.76923 | 900 |
| 3671 | 25.16385 | 993 | 3620 | 27.82384 | 899 |
| 3670 | 25.21154 | 992 | 3619 | 27.88538 | 897 |
| 3669 | 25.25923 | 990 | 3618 | 27.94692 | 895 |
| 3668 | 25.30692 | 988 | 3617 | 28.00846 | 893 |
| 3667 | 25.35385 | 986 | 3616 | 28.07000 | 891 |
| 3666 | 25.40154 | 984 | 3615 | 28.13076 | 889 |
| 3665 | 25.44846 | 982 | 3614 | 28.19230 | 887 |
| 3664 | 25.49539 | 981 | 3613 | 28.25307 | 885 |
| 3663 | 25.54231 | 979 | 3612 | 28.31384 | 883 |
| 3662 | 25.58923 | 977 | 3611 | 28.37461 | 881 |
| 3661 | 25.63615 | 975 | 3610 | 28.43538 | 879 |
| 3660 | 25.68308 | 973 | 3609 | 28.49538 | 877 |
| 3659 | 25.73539 | 971 | 3608 | 28.55538 | 875 |
| 3658 | 25.78770 | 969 | 3607 | 28.61615 | 874 |
| 3657 | 25.83923 | 968 | 3606 | 28.67615 | 872 |
| 3656 | 25.89154 | 966 | 3605 | 28.73538 | 870 |
| 3655 | 25.94385 | 964 | 3604 | 28.79538 | 868 |
| 3654 | 25.99539 | 962 | 3603 | 28.85538 | 866 |
| 3653 | 26.04692 | 960 | 3602 | 28.91461 | 865 |
| 3652 | 26.09846 | 958 | 3601 | 28.97384 | 863 |
| 3651 | 26.15000 | 956 | 3600 | 29.03307 | 861 |

Table 4
Hoover Dam
Powerplant Capacity vs. Elevation

| Elevation | Capacity (MW) | Elevation | Capacity (MW) |
|-----------|---------------|-----------|---------------|
| 1109 | 1,863 | 1174 | 2,053 |
| 1110 | 1,865 | 1175 | 2,055 |
| 1111 | 1,867 | 1176 | 2,057 |
| 1112 | 1,868 | 1177 | 2,058 |
| 1113 | 1,870 | 1178 | 2,058 |
| 1114 | 1,872 | 1179 | 2,059 |
| 1115 | 1,873 | 1180 | 2,060 |
| 1116 | 1,875 | 1181 | 2,060 |
| 1117 | 1,877 | 1182 | 2,061 |
| 1118 | 1,878 | 1183 | 2,061 |
| 1119 | 1,880 | 1184 | 2,061 |
| 1120 | 1,882 | 1185 | 2,061 |
| 1121 | 1,884 | 1186 | 2,061 |
| 1122 | 1,885 | 1187 | 2,061 |
| 1123 | 1,887 | 1188 | 2,062 |
| 1124 | 1,889 | 1189 | 2,062 |
| 1125 | 1,890 | 1190 | 2,062 |
| 1126 | 1,892 | 1191 | 2,062 |
| 1127 | 1,894 | 1192 | 2,062 |
| 1128 | 1,895 | 1193 | 2,062 |
| 1129 | 1,897 | 1194 | 2,062 |
| 1130 | 1,899 | 1195 | 2,062 |
| 1131 | 1,900 | 1196 | 2,062 |
| 1132 | 1,902 | 1197 | 2,062 |
| 1133 | 1,904 | 1198 | 2,062 |
| 1134 | 1,905 | 1199 | 2,062 |
| 1135 | 1,907 | 1200 | 2,062 |
| 1136 | 1,909 | 1201 | 2,062 |
| 1137 | 1,918 | 1202 | 2,062 |
| 1138 | 1,935 | 1203 | 2,062 |
| 1139 | 1,936 | 1204 | 2,062 |
| 1140 | 1,938 | 1205 | 2,062 |
| 1141 | 1,940 | 1206 | 2,062 |
| 1142 | 1,942 | 1207 | 2,062 |
| 1143 | 1,943 | 1208 | 2,074 |
| 1144 | 1,945 | 1209 | 2,074 |
| 1145 | 1,963 | 1210 | 2,074 |
| 1146 | 1,971 | 1211 | 2,074 |
| 1147 | 1,974 | 1212 | 2,074 |
| 1148 | 2,003 | 1213 | 2,074 |
| 1149 | 2,005 | 1214 | 2,074 |
| 1150 | 2,007 | 1215 | 2,074 |
| 1151 | 2,008 | 1216 | 2,074 |
| 1152 | 2,010 | 1217 | 2,074 |
| 1153 | 2,012 | 1218 | 2,074 |
| 1154 | 2,014 | 1219 | 2,074 |
| 1155 | 2,015 | 1220 | 2,074 |
| 1156 | 2,017 | 1221 | 2,074 |
| 1157 | 2,019 | 1222 | 2,074 |
| 1158 | 2,024 | 1223 | 2,074 |
| 1159 | 2,026 | 1224 | 2,074 |
| 1160 | 2,027 | 1225 | 2,074 |
| 1161 | 2,029 | 1226 | 2,074 |
| 1162 | 2,031 | 1227 | 2,074 |
| 1163 | 2,033 | 1228 | 2,074 |
| 1164 | 2,034 | 1229 | 2,074 |
| 1165 | 2,036 | 1230 | 2,074 |
| 1166 | 2,038 | 1231 | 2,074 |
| 1167 | 2,040 | 1232 | 2,074 |
| 1168 | 2,043 | 1233 | 2,074 |
| 1169 | 2,044 | 1234 | 2,074 |
| 1170 | 2,046 | 1235 | 2,074 |
| 1171 | 2,048 | 1236 | 2,074 |
| 1172 | 2,050 | 1237 | 2,074 |
| 1173 | 2,051 | | |

Table 5

**Glen Canyon Powerplant
Summary of Average Annual Capacity and Energy Production**

| YEAR | Baseline Conditions | | Flood Control Alternative | | Six States Alternative | | Basin States Alternative | | California Alternative | | Shortage Protection Alternative | |
|------|---------------------|--------------|---------------------------|--------------|------------------------|--------------|--------------------------|--------------|------------------------|--------------|---------------------------------|--------------|
| | CAPACITY (MW) | ENERGY (GWh) | CAPACITY (MW) | ENERGY (GWh) | CAPACITY (MW) | ENERGY (GWh) | CAPACITY (MW) | ENERGY (GWh) | CAPACITY (MW) | ENERGY (GWh) | CAPACITY (MW) | ENERGY (GWh) |
| 2002 | 1,020 | 4,763 | 1,020 | 4,763 | 1,014 | 4,799 | 1,014 | 4,802 | 1,007 | 4,857 | 1,009 | 4,841 |
| 2003 | 1,020 | 4,778 | 1,020 | 4,777 | 1,014 | 4,813 | 1,014 | 4,814 | 1,007 | 4,864 | 1,009 | 4,851 |
| 2004 | 1,018 | 4,697 | 1,018 | 4,698 | 1,014 | 4,733 | 1,013 | 4,736 | 1,001 | 4,780 | 1,005 | 4,777 |
| 2005 | 1,016 | 4,651 | 1,016 | 4,650 | 1,007 | 4,675 | 1,005 | 4,679 | 993 | 4,720 | 995 | 4,721 |
| 2006 | 1,011 | 4,607 | 1,011 | 4,606 | 999 | 4,638 | 1,001 | 4,638 | 986 | 4,661 | 988 | 4,674 |
| 2007 | 1,009 | 4,603 | 1,009 | 4,603 | 995 | 4,606 | 995 | 4,607 | 979 | 4,599 | 981 | 4,615 |
| 2008 | 1,007 | 4,553 | 1,007 | 4,549 | 995 | 4,551 | 995 | 4,553 | 979 | 4,555 | 979 | 4,563 |
| 2009 | 1,003 | 4,532 | 1,003 | 4,530 | 990 | 4,515 | 990 | 4,514 | 973 | 4,481 | 973 | 4,482 |
| 2010 | 999 | 4,468 | 999 | 4,471 | 986 | 4,438 | 984 | 4,436 | 966 | 4,401 | 964 | 4,409 |
| 2011 | 992 | 4,448 | 992 | 4,452 | 979 | 4,417 | 977 | 4,416 | 960 | 4,380 | 958 | 4,392 |
| 2012 | 988 | 4,408 | 988 | 4,407 | 975 | 4,399 | 975 | 4,399 | 956 | 4,342 | 954 | 4,354 |
| 2013 | 975 | 4,419 | 975 | 4,424 | 960 | 4,389 | 958 | 4,391 | 954 | 4,317 | 952 | 4,320 |
| 2014 | 969 | 4,377 | 969 | 4,378 | 956 | 4,336 | 958 | 4,329 | 954 | 4,280 | 954 | 4,275 |
| 2015 | 964 | 4,351 | 964 | 4,347 | 958 | 4,305 | 958 | 4,301 | 956 | 4,256 | 954 | 4,250 |
| 2016 | 960 | 4,324 | 962 | 4,328 | 960 | 4,285 | 960 | 4,285 | 958 | 4,245 | 958 | 4,240 |
| 2017 | 964 | 4,309 | 964 | 4,309 | 962 | 4,263 | 962 | 4,257 | 958 | 4,213 | 958 | 4,213 |
| 2018 | 964 | 4,305 | 964 | 4,303 | 962 | 4,257 | 962 | 4,250 | 960 | 4,209 | 960 | 4,203 |
| 2019 | 966 | 4,268 | 966 | 4,269 | 964 | 4,234 | 964 | 4,232 | 964 | 4,187 | 964 | 4,186 |
| 2020 | 969 | 4,254 | 969 | 4,255 | 968 | 4,224 | 968 | 4,222 | 968 | 4,186 | 968 | 4,181 |
| 2021 | 969 | 4,226 | 969 | 4,227 | 969 | 4,195 | 969 | 4,192 | 969 | 4,159 | 969 | 4,162 |
| 2022 | 973 | 4,213 | 973 | 4,214 | 971 | 4,195 | 971 | 4,195 | 969 | 4,172 | 969 | 4,169 |
| 2023 | 973 | 4,207 | 973 | 4,206 | 971 | 4,190 | 971 | 4,188 | 971 | 4,164 | 971 | 4,166 |
| 2024 | 971 | 4,193 | 971 | 4,192 | 971 | 4,180 | 971 | 4,178 | 968 | 4,159 | 968 | 4,160 |
| 2025 | 975 | 4,186 | 975 | 4,190 | 975 | 4,167 | 975 | 4,167 | 973 | 4,146 | 973 | 4,147 |
| 2026 | 977 | 4,182 | 977 | 4,185 | 975 | 4,172 | 973 | 4,170 | 969 | 4,152 | 969 | 4,151 |
| 2027 | 977 | 4,159 | 977 | 4,154 | 969 | 4,147 | 969 | 4,146 | 969 | 4,126 | 969 | 4,124 |
| 2028 | 971 | 4,154 | 971 | 4,162 | 971 | 4,143 | 971 | 4,141 | 971 | 4,115 | 971 | 4,121 |
| 2029 | 973 | 4,156 | 973 | 4,163 | 973 | 4,146 | 973 | 4,144 | 973 | 4,117 | 973 | 4,120 |
| 2030 | 975 | 4,135 | 975 | 4,133 | 975 | 4,124 | 975 | 4,122 | 975 | 4,095 | 975 | 4,095 |
| 2031 | 975 | 4,113 | 975 | 4,112 | 975 | 4,102 | 975 | 4,098 | 975 | 4,073 | 975 | 4,072 |
| 2032 | 979 | 4,113 | 979 | 4,120 | 979 | 4,088 | 979 | 4,086 | 979 | 4,077 | 979 | 4,075 |
| 2033 | 981 | 4,096 | 981 | 4,096 | 981 | 4,088 | 981 | 4,087 | 981 | 4,064 | 981 | 4,071 |
| 2034 | 981 | 4,091 | 981 | 4,089 | 981 | 4,077 | 981 | 4,075 | 981 | 4,050 | 981 | 4,051 |
| 2035 | 982 | 4,065 | 982 | 4,064 | 982 | 4,051 | 982 | 4,049 | 982 | 4,022 | 982 | 4,021 |
| 2036 | 984 | 4,050 | 984 | 4,055 | 984 | 4,033 | 984 | 4,032 | 984 | 4,016 | 984 | 4,015 |
| 2037 | 984 | 4,026 | 984 | 4,030 | 984 | 4,014 | 984 | 4,013 | 984 | 4,005 | 984 | 4,003 |
| 2038 | 988 | 4,005 | 988 | 4,008 | 988 | 3,998 | 988 | 3,996 | 988 | 3,990 | 988 | 3,988 |
| 2039 | 988 | 4,005 | 988 | 4,006 | 988 | 3,996 | 988 | 3,995 | 988 | 3,987 | 988 | 3,986 |
| 2040 | 986 | 3,999 | 986 | 3,999 | 986 | 3,993 | 986 | 3,992 | 986 | 3,987 | 986 | 3,984 |
| 2041 | 990 | 3,995 | 990 | 3,998 | 988 | 3,990 | 988 | 3,989 | 986 | 3,981 | 986 | 3,980 |
| 2042 | 986 | 3,975 | 986 | 3,976 | 986 | 3,970 | 986 | 3,969 | 984 | 3,962 | 984 | 3,961 |
| 2043 | 988 | 3,968 | 986 | 3,969 | 988 | 3,962 | 988 | 3,961 | 988 | 3,948 | 988 | 3,952 |
| 2044 | 984 | 3,959 | 984 | 3,961 | 984 | 3,954 | 984 | 3,954 | 984 | 3,939 | 984 | 3,937 |
| 2045 | 981 | 3,957 | 981 | 3,958 | 979 | 3,947 | 979 | 3,947 | 979 | 3,934 | 979 | 3,934 |
| 2046 | 982 | 3,933 | 984 | 3,933 | 982 | 3,925 | 982 | 3,924 | 982 | 3,913 | 982 | 3,911 |
| 2047 | 977 | 3,928 | 977 | 3,928 | 977 | 3,918 | 977 | 3,917 | 977 | 3,909 | 977 | 3,911 |
| 2048 | 977 | 3,912 | 977 | 3,913 | 977 | 3,906 | 977 | 3,905 | 977 | 3,897 | 977 | 3,898 |
| 2049 | 973 | 3,904 | 973 | 3,904 | 973 | 3,898 | 973 | 3,897 | 973 | 3,891 | 973 | 3,892 |
| 2050 | 975 | 3,875 | 975 | 3,875 | 975 | 3,870 | 975 | 3,870 | 975 | 3,865 | 975 | 3,865 |

AVERAGE:

| | | | | | | | | | | | | |
|-----------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|
| 2002-2016 | 997 | 4,532 | 997 | 4,532 | 987 | 4,527 | 987 | 4,527 | 975 | 4,516 | 976 | 4,518 |
| 2017-2050 | 978 | 4,086 | 978 | 4,087 | 977 | 4,071 | 977 | 4,069 | 976 | 4,050 | 976 | 4,050 |
| 2002-2050 | 983 | 4,222 | 984 | 4,223 | 980 | 4,211 | 980 | 4,209 | 976 | 4,193 | 976 | 4,193 |

Table 6
Glen Canyon Powerplant
Comparison of Capacity and Energy Production to Baseline Conditions
(Average Annual Value)

| YEAR | Flood Control Alternative | | Six States Alternative | | Basin States Alternative | | California Alternative | | Shortage Protection Alternative | |
|------|---------------------------|--------------|------------------------|--------------|--------------------------|--------------|------------------------|--------------|---------------------------------|--------------|
| | CAPACITY (MW) | ENERGY (GWh) | CAPACITY (MW) | ENERGY (GWh) | CAPACITY (MW) | ENERGY (GWh) | CAPACITY (MW) | ENERGY (GWh) | CAPACITY (MW) | ENERGY (GWh) |
| 2002 | 0 | 0 | -5 | 37 | -5 | 39 | -13 | 94 | -11 | 79 |
| 2003 | 0 | -2 | -5 | 34 | -5 | 36 | -13 | 86 | -11 | 73 |
| 2004 | 0 | 0 | -4 | 35 | -5 | 39 | -17 | 82 | -13 | 80 |
| 2005 | 0 | -2 | -9 | 24 | -11 | 27 | -23 | 68 | -21 | 70 |
| 2006 | 0 | 0 | -12 | 31 | -10 | 32 | -25 | 54 | -23 | 68 |
| 2007 | 0 | 0 | -14 | 3 | -14 | 5 | -30 | -4 | -28 | 12 |
| 2008 | 0 | -4 | -12 | -2 | -12 | 0 | -28 | 2 | -28 | 10 |
| 2009 | 0 | -2 | -13 | -17 | -13 | -18 | -30 | -51 | -30 | -51 |
| 2010 | 0 | 3 | -13 | -31 | -15 | -33 | -34 | -67 | -36 | -59 |
| 2011 | 0 | 4 | -13 | -31 | -15 | -32 | -32 | -68 | -34 | -56 |
| 2012 | 0 | -1 | -13 | -8 | -13 | -9 | -32 | -66 | -34 | -54 |
| 2013 | 0 | 5 | -15 | -30 | -17 | -28 | -21 | -102 | -23 | -99 |
| 2014 | 0 | 1 | -13 | -41 | -12 | -48 | -15 | -97 | -15 | -102 |
| 2015 | 0 | -4 | -6 | -46 | -6 | -50 | -8 | -95 | -9 | -101 |
| 2016 | 2 | 5 | 0 | -38 | 0 | -39 | -2 | -78 | -2 | -83 |
| 2017 | 0 | 0 | -2 | -46 | -2 | -51 | -6 | -96 | -6 | -96 |
| 2018 | 0 | -2 | -2 | -48 | -2 | -55 | -4 | -96 | -4 | -101 |
| 2019 | 0 | 1 | -2 | -35 | -2 | -36 | -2 | -81 | -2 | -82 |
| 2020 | 0 | 1 | -2 | -30 | -2 | -32 | -2 | -67 | -2 | -73 |
| 2021 | 0 | 2 | 0 | -31 | 0 | -34 | 0 | -67 | 0 | -64 |
| 2022 | 0 | 1 | -2 | -18 | -2 | -19 | -4 | -41 | -4 | -44 |
| 2023 | 0 | -1 | -2 | -17 | -2 | -19 | -2 | -43 | -2 | -40 |
| 2024 | 0 | -1 | 0 | -13 | 0 | -15 | -4 | -35 | -4 | -34 |
| 2025 | 0 | 4 | 0 | -19 | 0 | -19 | -2 | -39 | -2 | -39 |
| 2026 | 0 | 2 | -2 | -11 | -4 | -13 | -8 | -30 | -8 | -31 |
| 2027 | 0 | -5 | -8 | -12 | -8 | -13 | -8 | -33 | -8 | -35 |
| 2028 | 0 | 7 | 0 | -11 | 0 | -13 | 0 | -39 | 0 | -33 |
| 2029 | 0 | 7 | 0 | -11 | 0 | -12 | 0 | -39 | 0 | -37 |
| 2030 | 0 | -1 | 0 | -11 | 0 | -12 | 0 | -40 | 0 | -40 |
| 2031 | 0 | -1 | 0 | -11 | 0 | -15 | 0 | -40 | 0 | -41 |
| 2032 | 0 | 6 | 0 | -25 | 0 | -27 | 0 | -37 | 0 | -38 |
| 2033 | 0 | 1 | 0 | -7 | 0 | -9 | 0 | -31 | 0 | -25 |
| 2034 | 0 | -2 | 0 | -14 | 0 | -16 | 0 | -40 | 0 | -40 |
| 2035 | 0 | -1 | 0 | -14 | 0 | -15 | 0 | -43 | 0 | -44 |
| 2036 | 0 | 5 | 0 | -17 | 0 | -18 | 0 | -34 | 0 | -36 |
| 2037 | 0 | 4 | 0 | -12 | 0 | -13 | 0 | -21 | 0 | -23 |
| 2038 | 0 | 3 | 0 | -7 | 0 | -9 | 0 | -15 | 0 | -17 |
| 2039 | 0 | 1 | 0 | -8 | 0 | -10 | 0 | -18 | 0 | -18 |
| 2040 | 0 | 0 | 0 | -6 | 0 | -7 | 0 | -12 | 0 | -15 |
| 2041 | 0 | 4 | -2 | -5 | -2 | -6 | -4 | -13 | -4 | -15 |
| 2042 | 0 | 2 | 0 | -4 | 0 | -5 | -2 | -12 | -2 | -14 |
| 2043 | -2 | 1 | 0 | -6 | 0 | -7 | 0 | -20 | 0 | -16 |
| 2044 | 0 | 2 | 0 | -5 | 0 | -6 | 0 | -20 | 0 | -23 |
| 2045 | 0 | 2 | -2 | -9 | -2 | -10 | -2 | -23 | -2 | -23 |
| 2046 | 2 | 0 | 0 | -8 | 0 | -9 | 0 | -21 | 0 | -22 |
| 2047 | 0 | 0 | 0 | -9 | 0 | -11 | 0 | -18 | 0 | -17 |
| 2048 | 0 | 1 | 0 | -6 | 0 | -7 | 0 | -16 | 0 | -15 |
| 2049 | 0 | 0 | 0 | -5 | 0 | -6 | 0 | -13 | 0 | -12 |
| 2050 | 0 | 0 | 0 | -5 | 0 | -5 | 0 | -10 | 0 | -10 |

AVERAGE:

| | | | | | | | | | | |
|-----------|---|---|-----|-----|-----|-----|-----|-----|-----|-----|
| 2002-2016 | 0 | 0 | -10 | -5 | -10 | -5 | -21 | -16 | -21 | -14 |
| 2017-2050 | 0 | 1 | -1 | -15 | -1 | -16 | -1 | -35 | -1 | -36 |
| 2002-2050 | 0 | 1 | -4 | -12 | -4 | -13 | -8 | -30 | -7 | -29 |

Table 7

Hoover Powerplant
Summary of Average Annual Capacity and Energy Production

| YEAR | Baseline Conditions | | Flood Control Alternative | | Six States Alternative | | Basin States Alternative | | California Alternative | | Shortage Protection Alternative | |
|------|---------------------|--------------|---------------------------|--------------|------------------------|--------------|--------------------------|--------------|------------------------|--------------|---------------------------------|--------------|
| | CAPACITY (MW) | ENERGY (GWh) | CAPACITY (MW) | ENERGY (GWh) | CAPACITY (MW) | ENERGY (GWh) | CAPACITY (MW) | ENERGY (GWh) | CAPACITY (MW) | ENERGY (GWh) | CAPACITY (MW) | ENERGY (GWh) |
| 2002 | 2,062 | 4,451 | 2,062 | 4,451 | 2,061 | 4,664 | 2,061 | 4,680 | 2,061 | 4,956 | 2,061 | 4,881 |
| 2003 | 2,062 | 4,870 | 2,062 | 4,863 | 2,061 | 4,993 | 2,061 | 4,994 | 2,061 | 5,175 | 2,061 | 5,127 |
| 2004 | 2,062 | 4,893 | 2,062 | 4,859 | 2,061 | 4,959 | 2,061 | 4,968 | 2,058 | 5,032 | 2,060 | 5,057 |
| 2005 | 2,062 | 4,853 | 2,062 | 4,836 | 2,061 | 4,918 | 2,061 | 4,911 | 2,057 | 4,987 | 2,058 | 5,004 |
| 2006 | 2,061 | 4,852 | 2,061 | 4,873 | 2,059 | 4,890 | 2,060 | 4,901 | 2,044 | 4,923 | 2,046 | 4,931 |
| 2007 | 2,061 | 4,862 | 2,061 | 4,874 | 2,057 | 4,859 | 2,057 | 4,864 | 2,040 | 4,850 | 2,043 | 4,907 |
| 2008 | 2,061 | 4,781 | 2,061 | 4,777 | 2,057 | 4,801 | 2,055 | 4,807 | 2,038 | 4,816 | 2,034 | 4,808 |
| 2009 | 2,059 | 4,714 | 2,059 | 4,708 | 2,051 | 4,721 | 2,050 | 4,714 | 2,029 | 4,711 | 2,033 | 4,711 |
| 2010 | 2,060 | 4,652 | 2,060 | 4,657 | 2,048 | 4,622 | 2,048 | 4,629 | 2,026 | 4,623 | 2,014 | 4,614 |
| 2011 | 2,055 | 4,621 | 2,055 | 4,626 | 2,043 | 4,586 | 2,040 | 4,585 | 2,010 | 4,543 | 2,008 | 4,558 |
| 2012 | 2,053 | 4,592 | 2,055 | 4,611 | 2,034 | 4,561 | 2,033 | 4,571 | 2,008 | 4,483 | 2,005 | 4,479 |
| 2013 | 2,044 | 4,580 | 2,050 | 4,577 | 2,024 | 4,529 | 2,024 | 4,529 | 1,963 | 4,452 | 1,943 | 4,427 |
| 2014 | 2,038 | 4,553 | 2,050 | 4,553 | 2,019 | 4,485 | 2,017 | 4,482 | 1,907 | 4,407 | 1,942 | 4,393 |
| 2015 | 2,046 | 4,519 | 2,046 | 4,523 | 2,019 | 4,472 | 2,015 | 4,464 | 1,909 | 4,366 | 1,936 | 4,359 |
| 2016 | 2,033 | 4,487 | 2,033 | 4,497 | 2,005 | 4,412 | 1,971 | 4,408 | 1,907 | 4,315 | 1,904 | 4,317 |
| 2017 | 2,027 | 4,479 | 2,027 | 4,474 | 1,971 | 4,352 | 1,945 | 4,330 | 1,900 | 4,151 | 1,899 | 4,183 |
| 2018 | 2,017 | 4,449 | 2,019 | 4,448 | 1,936 | 4,309 | 1,918 | 4,308 | 1,897 | 4,162 | 1,909 | 4,180 |
| 2019 | 2,010 | 4,374 | 2,010 | 4,376 | 1,940 | 4,275 | 1,935 | 4,262 | 1,894 | 4,158 | 1,900 | 4,185 |
| 2020 | 2,010 | 4,389 | 2,010 | 4,389 | 1,935 | 4,284 | 1,942 | 4,280 | 1,894 | 4,182 | 1,900 | 4,207 |
| 2021 | 1,945 | 4,337 | 1,945 | 4,339 | 1,907 | 4,226 | 1,907 | 4,216 | 1,887 | 4,104 | 1,894 | 4,121 |
| 2022 | 1,940 | 4,294 | 1,940 | 4,299 | 1,900 | 4,195 | 1,902 | 4,198 | 1,885 | 4,038 | 1,890 | 4,077 |
| 2023 | 1,909 | 4,230 | 1,909 | 4,241 | 1,897 | 4,121 | 1,895 | 4,119 | 1,878 | 4,007 | 1,892 | 4,067 |
| 2024 | 1,907 | 4,189 | 1,907 | 4,203 | 1,900 | 4,110 | 1,900 | 4,092 | 1,880 | 3,933 | 1,895 | 4,010 |
| 2025 | 1,905 | 4,151 | 1,904 | 4,130 | 1,895 | 4,026 | 1,895 | 4,017 | 1,880 | 3,878 | 1,887 | 3,911 |
| 2026 | 1,900 | 4,108 | 1,902 | 4,124 | 1,895 | 3,975 | 1,895 | 3,962 | 1,878 | 3,825 | 1,878 | 3,846 |
| 2027 | 1,899 | 4,041 | 1,900 | 4,060 | 1,895 | 3,941 | 1,895 | 3,939 | 1,887 | 3,769 | 1,889 | 3,834 |
| 2028 | 1,894 | 3,959 | 1,895 | 3,986 | 1,894 | 3,870 | 1,892 | 3,862 | 1,885 | 3,700 | 1,885 | 3,771 |
| 2029 | 1,895 | 3,958 | 1,899 | 3,954 | 1,895 | 3,838 | 1,892 | 3,836 | 1,884 | 3,692 | 1,887 | 3,737 |
| 2030 | 1,892 | 3,961 | 1,892 | 3,956 | 1,887 | 3,805 | 1,887 | 3,784 | 1,885 | 3,674 | 1,885 | 3,710 |
| 2031 | 1,889 | 3,929 | 1,892 | 3,940 | 1,887 | 3,783 | 1,887 | 3,760 | 1,884 | 3,659 | 1,882 | 3,714 |
| 2032 | 1,885 | 3,887 | 1,895 | 3,888 | 1,885 | 3,767 | 1,885 | 3,759 | 1,882 | 3,642 | 1,880 | 3,683 |
| 2033 | 1,887 | 3,856 | 1,887 | 3,844 | 1,884 | 3,741 | 1,884 | 3,732 | 1,880 | 3,624 | 1,880 | 3,659 |
| 2034 | 1,885 | 3,855 | 1,885 | 3,875 | 1,882 | 3,742 | 1,878 | 3,738 | 1,878 | 3,634 | 1,878 | 3,684 |
| 2035 | 1,885 | 3,840 | 1,884 | 3,837 | 1,884 | 3,723 | 1,884 | 3,718 | 1,882 | 3,619 | 1,882 | 3,670 |
| 2036 | 1,884 | 3,803 | 1,887 | 3,807 | 1,884 | 3,711 | 1,884 | 3,708 | 1,882 | 3,606 | 1,884 | 3,666 |
| 2037 | 1,880 | 3,757 | 1,882 | 3,778 | 1,880 | 3,726 | 1,880 | 3,704 | 1,875 | 3,598 | 1,878 | 3,652 |
| 2038 | 1,882 | 3,727 | 1,882 | 3,740 | 1,882 | 3,677 | 1,882 | 3,655 | 1,875 | 3,544 | 1,875 | 3,595 |
| 2039 | 1,882 | 3,730 | 1,880 | 3,726 | 1,882 | 3,645 | 1,882 | 3,643 | 1,882 | 3,564 | 1,882 | 3,619 |
| 2040 | 1,878 | 3,665 | 1,878 | 3,661 | 1,878 | 3,593 | 1,878 | 3,593 | 1,878 | 3,518 | 1,878 | 3,586 |
| 2041 | 1,873 | 3,650 | 1,880 | 3,649 | 1,873 | 3,626 | 1,873 | 3,625 | 1,875 | 3,563 | 1,873 | 3,625 |
| 2042 | 1,877 | 3,584 | 1,877 | 3,591 | 1,877 | 3,569 | 1,877 | 3,568 | 1,878 | 3,511 | 1,877 | 3,564 |
| 2043 | 1,870 | 3,617 | 1,875 | 3,623 | 1,870 | 3,592 | 1,870 | 3,592 | 1,872 | 3,535 | 1,870 | 3,585 |
| 2044 | 1,870 | 3,606 | 1,870 | 3,623 | 1,870 | 3,580 | 1,870 | 3,597 | 1,870 | 3,509 | 1,870 | 3,572 |
| 2045 | 1,863 | 3,547 | 1,863 | 3,544 | 1,863 | 3,552 | 1,863 | 3,544 | 1,863 | 3,478 | 1,863 | 3,524 |
| 2046 | 1,863 | 3,566 | 1,868 | 3,593 | 1,863 | 3,557 | 1,863 | 3,543 | 1,865 | 3,490 | 1,863 | 3,540 |
| 2047 | 1,867 | 3,565 | 1,870 | 3,577 | 1,867 | 3,548 | 1,867 | 3,551 | 1,867 | 3,479 | 1,867 | 3,522 |
| 2048 | 1,870 | 3,532 | 1,870 | 3,525 | 1,870 | 3,526 | 1,870 | 3,517 | 1,870 | 3,434 | 1,870 | 3,488 |
| 2049 | 1,870 | 3,534 | 1,868 | 3,552 | 1,870 | 3,503 | 1,870 | 3,496 | 1,870 | 3,426 | 1,870 | 3,475 |
| 2050 | 1,865 | 3,532 | 1,865 | 3,511 | 1,865 | 3,499 | 1,865 | 3,496 | 1,867 | 3,413 | 1,865 | 3,453 |

| AVERAGE: | | | | | | | | | | | | |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 2002-2016 | 2,055 | 4,685 | 2,056 | 4,686 | 2,044 | 4,698 | 2,041 | 4,701 | 2,008 | 4,709 | 2,010 | 4,705 |
| 2017-2050 | 1,902 | 3,903 | 1,903 | 3,908 | 1,890 | 3,823 | 1,889 | 3,816 | 1,880 | 3,709 | 1,882 | 3,756 |
| 2002-2050 | 1,949 | 4,142 | 1,950 | 4,146 | 1,937 | 4,091 | 1,935 | 4,087 | 1,919 | 4,016 | 1,921 | 4,047 |

Table 8
Hoover Powerplant
Comparison of Capacity and Energy Production to Baseline Conditions
(Average Annual Value)

| YEAR | Flood Control Alternative | | Six States Alternative | | Basin States Alternative | | California Alternative | | Shortage Protection Alternative | |
|------|---------------------------|--------------|------------------------|--------------|--------------------------|--------------|------------------------|--------------|---------------------------------|--------------|
| | CAPACITY (MW) | ENERGY (GWh) | CAPACITY (MW) | ENERGY (GWh) | CAPACITY (MW) | ENERGY (GWh) | CAPACITY (MW) | ENERGY (GWh) | CAPACITY (MW) | ENERGY (GWh) |
| 2002 | 0 | 0 | -1 | 213 | -1 | 228 | -1 | 505 | -1 | 429 |
| 2003 | 0 | -7 | -1 | 123 | -1 | 124 | -1 | 305 | -1 | 256 |
| 2004 | 0 | -34 | -1 | 67 | -1 | 75 | -4 | 139 | -2 | 165 |
| 2005 | 0 | -17 | -1 | 65 | -1 | 58 | -5 | 134 | -4 | 151 |
| 2006 | 0 | 20 | -2 | 38 | -1 | 49 | -17 | 71 | -15 | 79 |
| 2007 | 0 | 12 | -4 | -3 | -4 | 2 | -21 | -12 | -18 | 45 |
| 2008 | 0 | -4 | -4 | 19 | -6 | 26 | -23 | 35 | -27 | 27 |
| 2009 | 0 | -6 | -8 | 7 | -9 | 0 | -30 | -3 | -26 | -3 |
| 2010 | 0 | 5 | -12 | -30 | -12 | -23 | -34 | -29 | -46 | -37 |
| 2011 | 0 | 5 | -12 | -35 | -15 | -35 | -45 | -77 | -47 | -63 |
| 2012 | 2 | 20 | -19 | -31 | -20 | -21 | -45 | -109 | -48 | -112 |
| 2013 | 5 | -3 | -20 | -51 | -20 | -51 | -81 | -128 | -101 | -153 |
| 2014 | 12 | -1 | -19 | -69 | -21 | -72 | -131 | -146 | -96 | -161 |
| 2015 | 0 | 3 | -27 | -47 | -31 | -55 | -137 | -154 | -110 | -160 |
| 2016 | 0 | 10 | -28 | -75 | -62 | -79 | -126 | -172 | -129 | -170 |
| 2017 | 0 | -5 | -56 | -127 | -83 | -149 | -127 | -328 | -129 | -297 |
| 2018 | 2 | -1 | -81 | -141 | -100 | -141 | -120 | -287 | -108 | -269 |
| 2019 | 0 | 2 | -70 | -99 | -75 | -112 | -116 | -216 | -110 | -189 |
| 2020 | 0 | 0 | -75 | -105 | -69 | -109 | -116 | -206 | -110 | -181 |
| 2021 | 0 | 2 | -38 | -111 | -38 | -121 | -58 | -233 | -51 | -216 |
| 2022 | 0 | 6 | -39 | -98 | -38 | -96 | -55 | -256 | -50 | -216 |
| 2023 | 0 | 10 | -12 | -109 | -13 | -112 | -30 | -224 | -17 | -163 |
| 2024 | 0 | 14 | -7 | -78 | -7 | -97 | -27 | -255 | -12 | -178 |
| 2025 | -2 | -21 | -10 | -125 | -10 | -134 | -25 | -272 | -18 | -240 |
| 2026 | 2 | 16 | -5 | -133 | -5 | -145 | -22 | -283 | -22 | -262 |
| 2027 | 2 | 19 | -3 | -100 | -3 | -102 | -12 | -272 | -10 | -206 |
| 2028 | 2 | 27 | 0 | -89 | -2 | -97 | -8 | -259 | -8 | -188 |
| 2029 | 3 | -4 | 0 | -120 | -3 | -122 | -12 | -266 | -8 | -221 |
| 2030 | 0 | -4 | -5 | -156 | -5 | -176 | -7 | -287 | -7 | -250 |
| 2031 | 3 | 11 | -2 | -146 | -2 | -169 | -5 | -269 | -7 | -215 |
| 2032 | 10 | 1 | 0 | -120 | 0 | -128 | -3 | -245 | -5 | -204 |
| 2033 | 0 | -12 | -3 | -115 | -3 | -124 | -7 | -232 | -7 | -197 |
| 2034 | 0 | 20 | -3 | -113 | -7 | -117 | -7 | -221 | -7 | -172 |
| 2035 | -2 | -2 | -2 | -117 | -2 | -122 | -3 | -221 | -3 | -170 |
| 2036 | 3 | 5 | 0 | -92 | 0 | -95 | -2 | -196 | 0 | -137 |
| 2037 | 2 | 21 | 0 | -31 | 0 | -53 | -5 | -159 | -2 | -105 |
| 2038 | 0 | 14 | 0 | -50 | 0 | -72 | -7 | -182 | -7 | -131 |
| 2039 | -2 | -4 | 0 | -84 | 0 | -87 | 0 | -165 | 0 | -110 |
| 2040 | 0 | -5 | 0 | -72 | 0 | -72 | 0 | -148 | 0 | -79 |
| 2041 | 7 | -2 | 0 | -24 | 0 | -25 | 2 | -87 | 0 | -25 |
| 2042 | 0 | 7 | 0 | -16 | 0 | -17 | 2 | -73 | 0 | -21 |
| 2043 | 5 | 5 | 0 | -25 | 0 | -25 | 2 | -82 | 0 | -32 |
| 2044 | 0 | 17 | 0 | -26 | 0 | -9 | 0 | -96 | 0 | -34 |
| 2045 | 0 | -3 | 0 | 5 | 0 | -2 | 0 | -69 | 0 | -23 |
| 2046 | 5 | 27 | 0 | -8 | 0 | -23 | 2 | -76 | 0 | -25 |
| 2047 | 3 | 12 | 0 | -16 | 0 | -14 | 0 | -85 | 0 | -43 |
| 2048 | 0 | -7 | 0 | -6 | 0 | -15 | 0 | -98 | 0 | -44 |
| 2049 | -2 | 18 | 0 | -31 | 0 | -38 | 0 | -108 | 0 | -59 |
| 2050 | 0 | -21 | 0 | -33 | 0 | -36 | 2 | -118 | 0 | -79 |

AVERAGE:

| | | | | | | | | | | |
|-----------|---|---|-----|-----|-----|-----|-----|------|-----|------|
| 2002-2016 | 1 | 0 | -11 | 13 | -14 | 15 | -47 | 24 | -45 | 20 |
| 2017-2050 | 1 | 5 | -12 | -80 | -14 | -87 | -23 | -193 | -20 | -147 |
| 2002-2050 | 1 | 3 | -12 | -51 | -14 | -56 | -30 | -127 | -28 | -96 |