

**Appendix 30B      Comparison of Regional  
Hydrologic Model Results to  
Inform Economic Analyses**

# Appendix 30B      Comparison of Regional Hydrologic Model Results to Inform Economic Analyses

## 30B.1 Introduction

This appendix provides a comparison of previous hydrologic modeling water supply results for inclusion as input into various economic models to current hydrologic modeling results. The current hydrologic model results were post-processed prior to comparing them with the 2017 Draft EIR/EIS model results to determine if the results are similar.<sup>1</sup>

## 30B.2 Results of Comparison

The previous hydrologic model results were used as inputs to the previous economic models, including SWAP, Least Cost Planning Simulation Model (LCPSIM), and the Other Municipal Water Economics Model (OMWEM). It is anticipated that the results related to economics associated with agricultural and municipal and industrial water supply would remain positive and beneficial for Alternatives 1, 2, and 3 in this RDEIR/SDEIS, and would be similar to the results of the economic analysis conducted for the 2017 Draft EIR/EIS alternatives, based on the current hydrologic model results.

The current hydrologic model represents water supply deliveries to the same regions as previously analyzed in the 2017 Draft EIR/EIS. *Deliveries* in this appendix include both deliveries to Storage Partners and deliveries to SWP and CVP contractors incidental to the effects of the Project. The delivery amount (i.e., TAF) is measured at the boundary of the hydrologic units and summarized in the regions shown in the tables in this appendix. Estimated release rates and delivery amounts were greater in the alternatives modeled in 2017 than they would be for the Project in this RDEIR/SDEIS. This difference is primarily due to changes in participating Storage Partners since the earlier model run and is not related to changes in modeling methodology or current demands. The timing and spatial distribution of releases identified in the current hydrologic model are within the range of what was evaluated in the 2017 Draft EIR/EIS modeling. As shown in the tables below, while release rates and delivery amounts

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<sup>1</sup> Differences in the delivery volumes presented in this appendix may vary slightly from delivery volumes presented in Chapter 5, Surface Water Resources, and Chapter 32, Other Required Analyses, due to rounding during processing of modeling results.

are lower under Alternatives 1, 2, and 3, none of the alternatives in the RDEIR/SDEIS would reduce water supply from existing conditions.

Tables 30B-1a through 30B-1e compare the simulated modeling results of water supply deliveries by region between the 2017 Draft EIR/EIS and this RDEIR/SDEIS. The 2017 Draft EIR/EIS generally analyzed alternatives with larger reservoirs and three intakes. This RDEIR/SDEIS generally analyzes smaller reservoirs with only two intakes; it also includes refined diversion criteria as described in Chapter 2, *Project Description and Alternatives*. Therefore, the overall simulated deliveries are reported to be lower in Alternatives 1, 2, and 3 in this RDEIR/SDEIS. There is also a large decrease in Wet and Above Normal Water Year deliveries because there are many water year-type constraints on Authority deliveries under Alternatives 1, 2, and 3. As shown in Tables 30B-1a through 30B-1e, regional water deliveries to these hydrologic regions generally remain positive. However, there are some negative results. Negative numbers do not mean less water is delivered to the hydrologic region or water users; negative numbers mean the simplified CALSIM model is attempting to implement complex regulatory requirements and water supply allocation decisions and is over reacting. This is potentially because of rules that use functions involving thresholds or stepped values to determine simulated operations in CALSIM. Overall, the simulated regional deliveries results indicate that the current hydrologic modeling results are within a similar range and distribution relative to those from the 2017 Draft EIR/EIS modeling.

Tables 30B-2a through 30B-2e compare the simulated agricultural deliveries between the 2017 Draft EIR/EIS and this RDEIR/SDEIS. These simulations are the output used by the SWAP model in the 2017 Draft EIR/EIS. Appendix 30A, *Regional Economic Modeling*, provides a description of the SWAP model. SWAP allocates the hydrologic modeling outputs from CALSIM to SWAP districts. These results are then aggregated to the regional level to show how the Project would change water deliveries to agricultural regions. The model is run separately for long-term Normal, Dry, and Critically Dry Water Years. As is the case with overall Project deliveries, deliveries to agriculture remain positive under Alternatives 1, 2, and 3, although smaller due to participant changes between the 2017 Draft EIR/EIS alternatives and the Project. Overall, these results indicate that the current hydrologic modeling results are within a similar range and distribution relative to those previously reported for agricultural deliveries being made to the same hydrologic regions.

Tables 30B-3a through 30B-3e compare the municipal and industrial (M&I) deliveries for the 2017 Draft EIR/EIS and this RDEIR/SDEIS as modeled by LCPSIM and OMWEM. Appendix 30A provides a description both these models. LCPSIM is an annual time-step urban water service system reliability management model that estimates a least-cost water supply management strategy for SWP and CVP M&I supplies to the San Francisco Bay Area and the South Coast regions of California. OMWEM is a spreadsheet model that estimates the economic benefits of changes in supplies based on estimated water supply and demand of SWP and CVP M&I regions that are not included in LCPSIM. As shown in Tables 30B-3a through 30B-3e, water deliveries to areas with M&I uses generally remain positive and constitute a similar proportion of the total deliveries for this RDEIR/SDEIS when compared to the 2017 Draft EIR/EIS results. However, there are negative results. Negative numbers do not mean less water is delivered to the hydrologic region or water users; negative numbers mean the simplified

CALSIM model is attempting to implement complex regulatory requirements and water supply allocation decisions and is over reacting. This is potentially because of rules that use functions involving thresholds or stepped values to determine simulated operations in CALSIM. Similar to the regional deliveries and agricultural deliveries, overall these results indicate that the current hydrologic modeling results are within a similar range and distribution relative to those from the 2017 Draft EIR/EIS modeling.

**Table 30B-1a. CALSIM Simulated Regional Deliveries Comparison: Total – All Regions (TAF)**

|   | 2017 Draft EIR/EIS |       |       |       | RDEIR/SDEIS |        |       |       |
|---|--------------------|-------|-------|-------|-------------|--------|-------|-------|
|   | Alt A              | Alt B | Alt C | Alt D | Alt 1A      | Alt 1B | Alt 2 | Alt 3 |
| <b>Long-Term Average</b>                          | 164                | 135   | 165   | 218   | 131         | 128    | 119   | 130   |
| <b>Dry and Critically Dry Water Years Average</b> | 328                | 267   | 339   | 415   | 316         | 317    | 287   | 295   |
| Wet Water Years                                   | 84                 | 76    | 84    | 98    | -2          | -7     | 0     | 2     |
| Above Normal Water Years                          | 35                 | 81    | 39    | 67    | 37          | 34     | 34    | 70    |
| Below Normal Water Years                          | 63                 | 2     | 40    | 138   | 54          | 47     | 48    | 58    |
| Dry Water Years                                   | 310                | 242   | 306   | 287   | 345         | 343    | 315   | 317   |
| Critically Dry Water Years                        | 355                | 306   | 388   | 457   | 274         | 278    | 245   | 262   |

**Table 30B-1b. CALSIM Simulated Regional Deliveries Comparison: Sacramento River (TAF)**

|   | 2017 Draft EIR/EIS |       |       |       | RDEIR/SDEIS |        |       |       |
|---|--------------------|-------|-------|-------|-------------|--------|-------|-------|
|   | Alt A              | Alt B | Alt C | Alt D | Alt 1A      | Alt 1B | Alt 2 | Alt 3 |
| <b>Long-term Average</b>                          | 22                 | 11    | 20    | 96    | 30          | 29     | 29    | 31    |
| Proportion of Total                               | 13%                | 8%    | 12%   | 44%   | 23%         | 23%    | 24%   | 24%   |
| <b>Dry and Critically Dry Water Years Average</b> | 28                 | 13    | 23    | 171   | 67          | 65     | 64    | 70    |
| Proportion of Total                               | 9%                 | 5%    | 7%    | 41%   | 21%         | 21%    | 22%   | 24%   |
| Wet Water Years                                   | 9                  | 9     | 10    | 23    | 4           | 4      | 4     | 4     |
| Above Normal Water Years                          | 19                 | 11    | 29    | 49    | 4           | 4      | 4     | 4     |
| Below Normal Water Years                          | 34                 | 7     | 24    | 107   | 21          | 21     | 18    | 22    |
| Dry Water Years                                   | 25                 | 17    | 26    | 146   | 61          | 64     | 60    | 61    |
| Critically Dry Water Years                        | 33                 | 8     | 18    | 209   | 75          | 67     | 70    | 83    |

Note: Deliveries to the Sacramento Valley in 2017 Draft EIR/EIS Alternative D were much higher than the other 2017 Draft EIR/EIS alternatives due to a 320 TAF dedicated account for Sacramento Valley participants. The other 2017 Draft EIR/EIS alternatives did not include this account.

**Table 30B-1c. CALSIM Simulated Regional Deliveries Comparison: San Francisco Bay (TAF)**

|   | 2017 Draft EIR/EIS |       |       |       | RDEIR/SDEIS |        |       |       |
|---|--------------------|-------|-------|-------|-------------|--------|-------|-------|
|   | Alt A              | Alt B | Alt C | Alt D | Alt 1A      | Alt 1B | Alt 2 | Alt 3 |
| <b>Long-term Average</b>                          | 11                 | 10    | 12    | 9     | 11          | 11     | 10    | 10    |
| Proportion of Total                               | 7%                 | 7%    | 7%    | 4%    | 8%          | 8%     | 9%    | 8%    |
| <b>Dry and Critically Dry Water Years Average</b> | 21                 | 18    | 23    | 17    | 25          | 24     | 23    | 22    |
| Proportion of Total                               | 6%                 | 7%    | 7%    | 4%    | 8%          | 8%     | 8%    | 7%    |
| Wet Water Years                                   | 6                  | 5     | 5     | 6     | 0           | 0      | 0     | -1    |
| Above Normal Water Years                          | 3                  | 8     | 4     | 4     | 2           | 3      | 2     | 5     |
| Below Normal Water Years                          | 5                  | 2     | 5     | 5     | 7           | 8      | 8     | 9     |
| Dry Water Years                                   | 17                 | 15    | 18    | 15    | 28          | 26     | 25    | 24    |
| Critically Dry Water Years                        | 27                 | 22    | 30    | 21    | 22          | 22     | 19    | 19    |

**Table 30B-1d. CALSIM Simulated Regional Deliveries Comparison: San Joaquin/Tulare Lake/Central Coast (TAF)**

|   | 2017 Draft EIR/EIS |       |       |       | RDEIR/SDEIS |        |       |       |
|---|--------------------|-------|-------|-------|-------------|--------|-------|-------|
|   | Alt A              | Alt B | Alt C | Alt D | Alt 1A      | Alt 1B | Alt 2 | Alt 3 |
| <b>Long-term Average</b>                          | 56                 | 35    | 51    | 41    | 7           | 11     | 6     | 28    |
| Proportion of Total                               | 34%                | 26%   | 31%   | 19%   | 5%          | 9%     | 5%    | 22%   |
| <b>Dry and Critically Dry Water Years Average</b> | 107                | 77    | 104   | 81    | 15          | 29     | 14    | 47    |
| Proportion of Total                               | 33%                | 29%   | 31%   | 20%   | 5%          | 9%     | 5%    | 16%   |
| Wet Water Years                                   | 28                 | 15    | 21    | 25    | -5          | -5     | -3    | 3     |
| Above Normal Water Years                          | 18                 | 38    | 25    | 15    | 25          | 24     | 24    | 49    |
| Below Normal Water Years                          | 27                 | -23   | 11    | 6     | -4          | -7     | -6    | 17    |
| Dry Water Years                                   | 115                | 71    | 104   | 87    | 27          | 46     | 26    | 64    |
| Critically Dry Water Years                        | 95                 | 87    | 104   | 72    | -3          | 5      | -6    | 21    |

Note: The large decrease in San Joaquin/Tulare Lake/Central Coast deliveries from the 2017 Draft EIR/EIS to this RDEIR/SDEIS is because there was a dedicated SWP Sites account and a large CVP Sites account in the 2017 Draft EIR/EIS alternatives that would have delivered water throughout the CVP and SWP systems. This RDEIR/SDEIS does not include an SWP account and two alternatives have no CVP account; deliveries are based on anticipated participation levels. Participation levels in the San Joaquin and Tulare Lake regions would be relatively low.

**Table 30B-1e. CALSIM Simulated Regional Deliveries Comparison: South Coast – East/West Branch<sup>2</sup> (TAF)**

|   | 2017 Draft EIR/EIS |       |       |       | RDEIR/SDEIS |        |       |       |
|---|--------------------|-------|-------|-------|-------------|--------|-------|-------|
|   | Alt A              | Alt B | Alt C | Alt D | Alt 1A      | Alt 1B | Alt 2 | Alt 3 |
| <b>Long-term Average</b>                          | 76                 | 80    | 83    | 71    | 83          | 76     | 74    | 60    |
| Proportion of Total                               | 46%                | 59%   | 50%   | 33%   | 64%         | 60%    | 62%   | 46%   |
| <b>Dry and Critically Dry Water Years Average</b> | 172                | 159   | 188   | 145   | 210         | 198    | 187   | 156   |
| Proportion of Total                               | 53%                | 60%   | 56%   | 35%   | 66%         | 63%    | 65%   | 53%   |
| Wet Water Years                                   | 41                 | 47    | 48    | 44    | -1          | -6     | -1    | -4    |
| Above Normal Water Years                          | -5                 | 25    | -19   | -1    | 5           | 3      | 5     | 13    |
| Below Normal Water Years                          | -3                 | 15    | 1     | 21    | 30          | 25     | 28    | 10    |
| Dry Water Years                                   | 153                | 140   | 158   | 138   | 229         | 207    | 204   | 168   |
| Critically Dry Water Years                        | 201                | 189   | 235   | 155   | 181         | 184    | 161   | 139   |

**Table 30B-2a. SWAP CALSIM Output Comparison: Total Regional Agricultural Deliveries (TAF)**

|   | 2017 Draft EIR/EIS |       |       |       | RDEIR/SDEIS |        |       |       |
|---|--------------------|-------|-------|-------|-------------|--------|-------|-------|
|   | Alt A              | Alt B | Alt C | Alt D | Alt 1A      | Alt 1B | Alt 2 | Alt 3 |
| <b>Long-term Average</b>                          | 69                 | 37    | 61    | 130   | 37          | 41     | 35    | 58    |
| <b>Dry and Critically Dry Water Years Average</b> | 120                | 76    | 110   | 241   | 82          | 96     | 79    | 116   |

**Table 30B-2b. SWAP CALSIM Output Comparison: Sacramento River Agricultural Deliveries (TAF)**

|   | 2017 Draft EIR/EIS |       |       |       | RDEIR/SDEIS |        |       |       |
|---|--------------------|-------|-------|-------|-------------|--------|-------|-------|
|   | Alt A              | Alt B | Alt C | Alt D | Alt 1A      | Alt 1B | Alt 2 | Alt 3 |
| <b>Long-term Average</b>                          | 19                 | 9     | 16    | 94    | 30          | 29     | 28    | 29    |
| Proportion of Total                               | 27%                | 23%   | 26%   | 72%   | 81%         | 70%    | 80%   | 50%   |
| <b>Dry and Critically Dry Water Years Average</b> | 25                 | 11    | 19    | 169   | 66          | 64     | 64    | 66    |
| Proportion of Total                               | 20%                | 14%   | 17%   | 70%   | 80%         | 67%    | 80%   | 57%   |

Note: Deliveries to the Sacramento Valley in 2017 Draft EIR/EIS Alternative D were much higher than the other 2017 Draft EIR/EIS alternatives due to a 320 TAF dedicated account for Sacramento Valley participants. The other 2017 Draft EIR/EIS alternatives did not include this account.

<sup>2</sup> Note that the South Coast East/West Branch Region comprises the combination of the South Lahontan Hydrologic Region and South Coast Hydrologic Region, as included in Chapter 5, *Surface Water Resources*, and Chapter 32, *Other Required Analyses*. These regions are combined in this section to enable comparison with delivery numbers from the 2017 DEIR/S.

**Table 30B-2c. SWAP CALSIM Output Comparison: San Francisco Bay Agricultural Deliveries (TAF)**

|   | 2017 Draft EIR/EIS |       |       |       | RDEIR/SDEIS |        |       |       |
|---|--------------------|-------|-------|-------|-------------|--------|-------|-------|
|   | Alt A              | Alt B | Alt C | Alt D | Alt 1A      | Alt 1B | Alt 2 | Alt 3 |
| <b>Long-term Average</b>                          | 1                  | 0     | 0     | 0     | 0           | 0      | 0     | 1     |
| Proportion of Total                               | 1%                 | 0%    | 1%    | 0%    | 0%          | 1%     | 0%    | 1%    |
| <b>Dry and Critically Dry Water Years Average</b> | 2                  | 0     | 1     | 1     | 0           | 1      | 0     | 1     |
| Proportion of Total                               | 1%                 | 1%    | 1%    | 0%    | 0%          | 1%     | 0%    | 1%    |

**Table 30B-2d. SWAP CALSIM Output Comparison: San Joaquin/Tulare Lake/Central Coast (TAF)**

|   | 2017 Draft EIR/EIS |       |       |       | RDEIR/SDEIS |        |       |       |
|---|--------------------|-------|-------|-------|-------------|--------|-------|-------|
|   | Alt A              | Alt B | Alt C | Alt D | Alt 1A      | Alt 1B | Alt 2 | Alt 3 |
| <b>Long-term Average</b>                          | 49                 | 28    | 44    | 36    | 7           | 12     | 6     | 28    |
| Proportion of Total                               | 71%                | 76%   | 72%   | 27%   | 18%         | 28%    | 18%   | 48%   |
| <b>Dry and Critically Dry Water Years Average</b> | 93                 | 65    | 89    | 70    | 15          | 30     | 14    | 48    |
| Proportion of Total                               | 78%                | 85%   | 81%   | 29%   | 18%         | 31%    | 18%   | 41%   |

Note: The large decrease in San Joaquin/Tulare Lake/Central Coast deliveries from the 2017 Draft EIR/EIS to this RDEIR/SDEIS is because there was a dedicated SWP Sites account and a large CVP Sites account in the 2017 Draft EIR/EIS alternatives that delivered water throughout the CVP and SWP systems. This RDEIR/SDEIS does not include an SWP account and two alternatives have no CVP account, so Sites water deliveries are based on anticipated participation levels. Participation levels in the San Joaquin and Tulare Lake regions would be relatively low.

**Table 30B-2e. SWAP CALSIM Output Comparison: South Coast – East/West Branch (TAF)**

|   | 2017 Draft EIR/EIS |       |       |       | RDEIR/SDEIS |        |       |       |
|---|--------------------|-------|-------|-------|-------------|--------|-------|-------|
|   | Alt A              | Alt B | Alt C | Alt D | Alt 1A      | Alt 1B | Alt 2 | Alt 3 |
| <b>Long-term Average</b>                          | 0                  | 0     | 0     | 0     | 0           | 0      | 0     | 0     |
| Proportion of Total                               | 1%                 | 1%    | 1%    | 0%    | 1%          | 1%     | 1%    | 1%    |
| <b>Dry and Critically Dry Water Years Average</b> | 1                  | 1     | 1     | 1     | 1           | 1      | 1     | 1     |
| Proportion of Total                               | 1%                 | 1%    | 1%    | 0%    | 1%          | 1%     | 1%    | 1%    |

**Table 30B-3a. M&I CALSIM Output Comparisons: Total – All Regions (TAF)**

|                          | 2017 Draft EIR/EIS |       |       |       | RDEIR/SDEIS |        |       |       |
|--------------------------|--------------------|-------|-------|-------|-------------|--------|-------|-------|
|                          | Alt A              | Alt B | Alt C | Alt D | Alt 1A      | Alt 1B | Alt 2 | Alt 3 |
| <b>Long-term Average</b> | 95                 | 97    | 104   | 88    | 94          | 86     | 84    | 71    |

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|   | 2017 Draft EIR/EIS |     |     |     | RDEIR/SDEIS |     |     |     |
|---|--------------------|-----|-----|-----|-------------|-----|-----|-----|
| <b>Dry and Critically Dry Water Years Average</b> | 207                | 191 | 229 | 174 | 234         | 221 | 208 | 179 |

**Table 30B-3b. M&I CALSIM Output Comparisons: Sacramento River (TAF)**

|   | 2017 Draft EIR/EIS |       |       |       | RDEIR/SDEIS |        |       |       |
|---|--------------------|-------|-------|-------|-------------|--------|-------|-------|
|   | Alt A              | Alt B | Alt C | Alt D | Alt 1A      | Alt 1B | Alt 2 | Alt 3 |
| <b>Long-term Average</b>                          | 3                  | 2     | 4     | 2     | 0           | 0      | 0     | 2     |
| Proportion of Total                               | 3%                 | 2%    | 3%    | 2%    | 0%          | 0%     | 0%    | 3%    |
| <b>Dry and Critically Dry Water Years Average</b> | 3                  | 3     | 4     | 2     | 0           | 1      | 0     | 4     |
| Proportion of Total                               | 2%                 | 1%    | 2%    | 1%    | 0%          | 0%     | 0%    | 2%    |

Note: Deliveries to the Sacramento Valley in the 2017 Draft EIR/EIS Alternative D were much higher than the other 2017 Draft EIR/EIS alternatives due to a 320 TAF dedicated account for Sacramento Valley participants. The other 2017 Draft EIR/EIS alternatives did not include this account. However, those deliveries were all for agriculture, so this is not reflected when looking solely at M&I deliveries.

**Table 30B-3c. M&I CALSIM Output Comparisons: San Francisco Bay (TAF)**

|   | 2017 Draft EIR/EIS |       |       |       | RDEIR/SDEIS |        |       |       |
|---|--------------------|-------|-------|-------|-------------|--------|-------|-------|
|   | Alt A              | Alt B | Alt C | Alt D | Alt 1A      | Alt 1B | Alt 2 | Alt 3 |
| <b>Long-term Average</b>                          | 10                 | 10    | 11    | 9     | 11          | 11     | 10    | 10    |
| Proportion of Total                               | 11%                | 10%   | 11%   | 10%   | 12%         | 12%    | 12%   | 13%   |
| <b>Dry and Critically Dry Water Years Average</b> | 19                 | 17    | 22    | 16    | 25          | 23     | 22    | 20    |
| Proportion of Total                               | 9%                 | 9%    | 10%   | 9%    | 11%         | 11%    | 11%   | 11%   |

**Table 30B-3d. M&I CALSIM Output Comparisons: San Joaquin/Tulare Lake/Central Coast (TAF)**

|   | 2017 Draft EIR/EIS |       |       |       | RDEIR/SDEIS |        |       |       |
|---|--------------------|-------|-------|-------|-------------|--------|-------|-------|
|   | Alt A              | Alt B | Alt C | Alt D | Alt 1A      | Alt 1B | Alt 2 | Alt 3 |
| <b>Long-term Average</b>                  | 6                  | 6     | 7     | 6     | 0           | 0      | 0     | 0     |
| Proportion of Total                       | 7%                 | 7%    | 7%    | 6%    | 0%          | 0%     | 0%    | 0%    |
| <b>Dry and Critically Dry Water Years</b> | 13                 | 12    | 15    | 11    | 0           | 0      | -1    | -1    |
| Proportion of Total                       | 6%                 | 7%    | 7%    | 7%    | 0%          | 0%     | 0%    | 0%    |

Notes: The large decrease in San Joaquin/Tulare Lake/Central Coast deliveries from the 2017 Draft EIR/EIS to RDEIR/SDEIS is because there was a dedicated SWP Sites account and a large CVP Sites account in the 2017 Draft EIR/EIS alternatives that delivered water throughout the CVP and SWP systems. In the RDEIR/SDEIS, there is no SWP account and two alternatives have no CVP account, so Sites water deliveries are based on anticipated participation levels. Participation levels in the San Joaquin and Tulare Lake regions would be relatively low.



**Table 30B-3e. M&I CALSIM Output Comparisons: South Coast – East/West Branch (TAF)**

|   | 2017 Draft EIR/EIS |       |       |       | RDEIR/SDEIS |        |       |       |
|---|--------------------|-------|-------|-------|-------------|--------|-------|-------|
|   | Alt A              | Alt B | Alt C | Alt D | Alt 1A      | Alt 1B | Alt 2 | Alt 3 |
| <b>Long-term Average</b>                          | 75                 | 79    | 82    | 71    | 83          | 76     | 74    | 60    |
| Proportion of Total                               | 80%                | 82%   | 79%   | 81%   | 88%         | 88%    | 88%   | 84%   |
| <b>Dry and Critically Dry Water Years Average</b> | 171                | 159   | 188   | 144   | 209         | 197    | 186   | 155   |
| Proportion of Total                               | 83%                | 83%   | 82%   | 83%   | 89%         | 89%    | 89%   | 87%   |