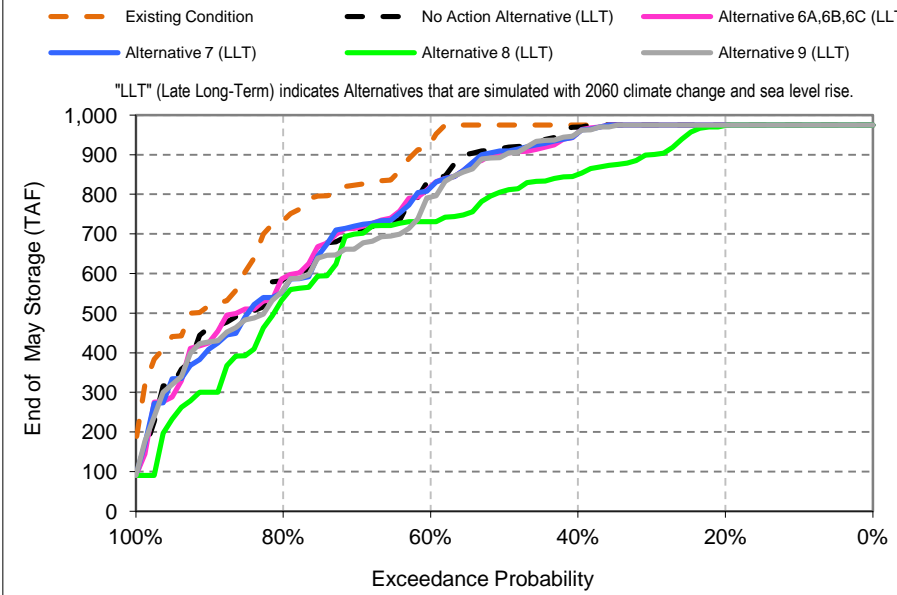
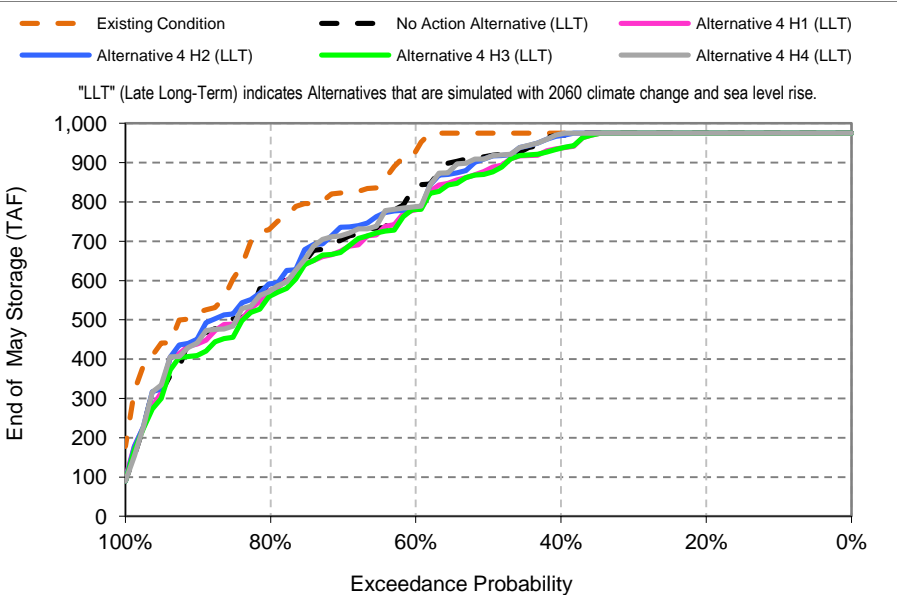
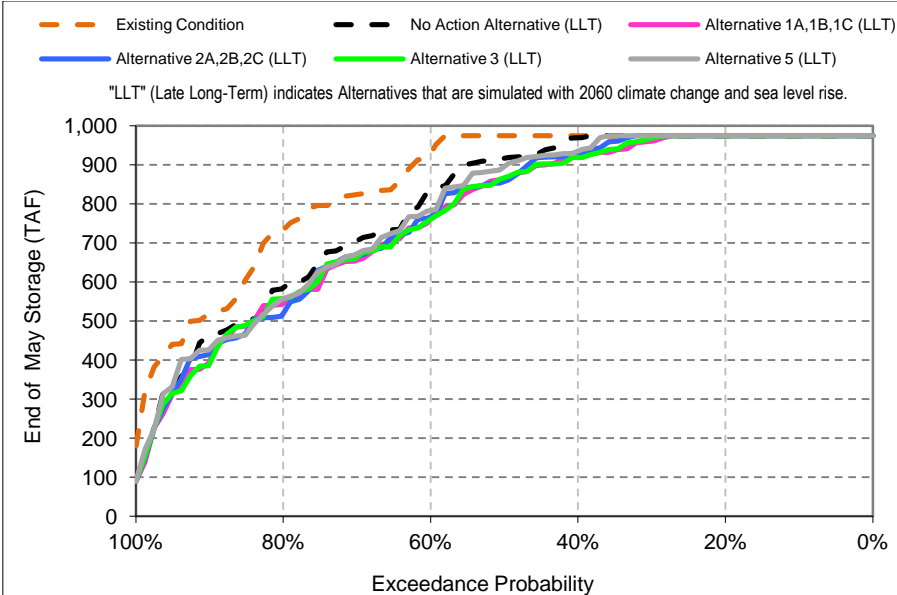


Appendix 5A
Modeling Technical Appendix

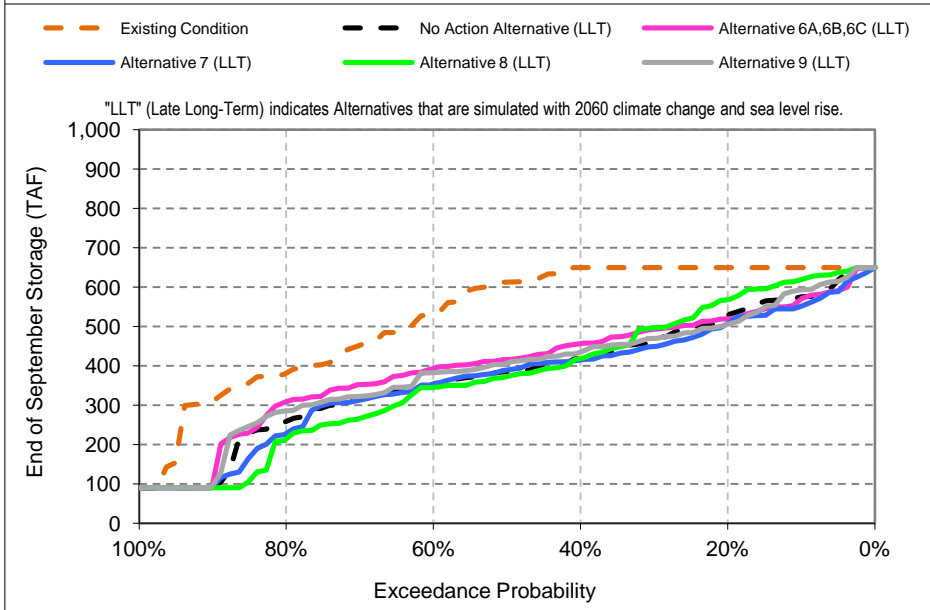
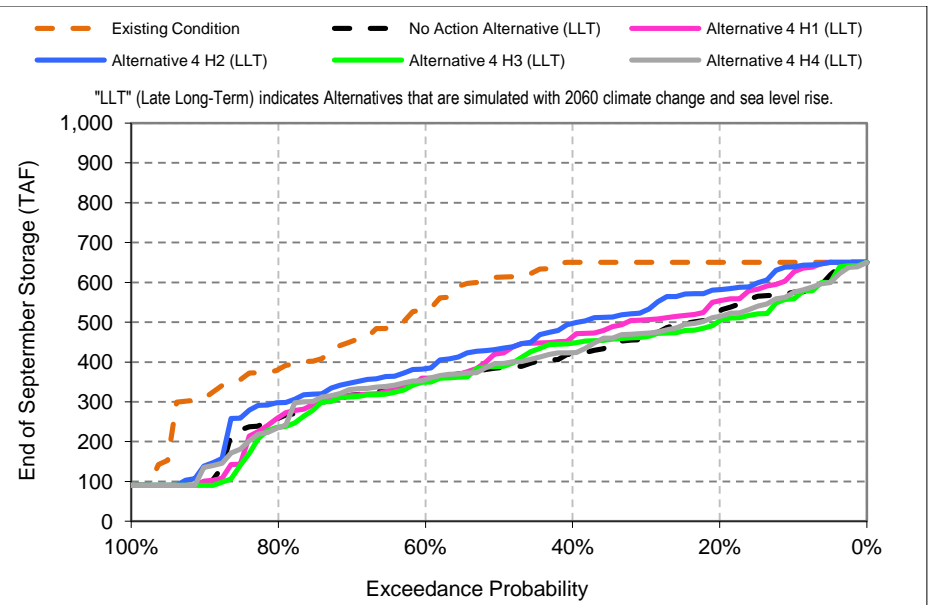
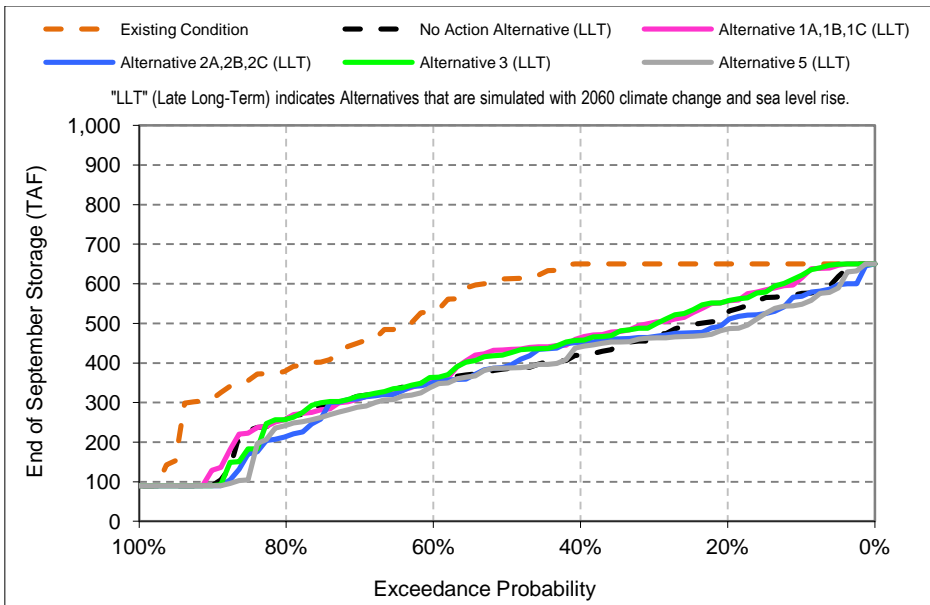
Public Draft – November, 2013

Bay-Delta Conservation Plan EIR/EIS Appendix 5A
Section C: CALSIM II and DSM2 Modeling Results



Alternative 4 Scenario Definitions:
 H1 - Low Delta Outflow Scenario
 H2 - Enhanced Spring Delta Outflow Scenario
 H3 - Fall X2 Scenario
 H4 - High Delta Outflow Scenario

Figure C-4-1. Folsom Lake, End of May Storage



Alternative 4 Scenario Definitions:
 H1 - Low Delta Outflow Scenario
 H2 - Enhanced Spring Delta Outflow Scenario
 H3 - Fall X2 Scenario
 H4 - High Delta Outflow Scenario

Figure C-4-2. Folsom Lake, End of September Storage

Table C-4-1. Folsom Lake, End of Month Storage

| Statistic | End of Month Storage (TAF) | | | | | | | | | | | |
|-------------------------------------|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Existing Condition | | | | | | | | | | | | |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 652 | 575 | 575 | 575 | 575 | 672 | 800 | 975 | 975 | 950 | 800 | 650 |
| 20% | 642 | 575 | 575 | 575 | 573 | 667 | 800 | 975 | 975 | 891 | 800 | 650 |
| 30% | 632 | 575 | 571 | 570 | 563 | 659 | 800 | 975 | 975 | 807 | 767 | 650 |
| 40% | 603 | 568 | 546 | 560 | 553 | 645 | 800 | 975 | 975 | 781 | 725 | 650 |
| 50% | 583 | 544 | 516 | 521 | 536 | 634 | 800 | 975 | 975 | 751 | 659 | 613 |
| 60% | 480 | 459 | 476 | 481 | 506 | 622 | 800 | 929 | 874 | 667 | 577 | 532 |
| 70% | 411 | 420 | 404 | 431 | 467 | 601 | 755 | 824 | 743 | 554 | 476 | 452 |
| 80% | 361 | 374 | 359 | 385 | 427 | 563 | 682 | 734 | 640 | 469 | 391 | 381 |
| 90% | 301 | 297 | 285 | 318 | 359 | 465 | 498 | 519 | 499 | 376 | 326 | 310 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period ^a | 505 | 467 | 468 | 479 | 494 | 598 | 727 | 850 | 823 | 684 | 600 | 525 |
| Water Year Types ^b | | | | | | | | | | | | |
| Wet (32%) | 559 | 520 | 527 | 523 | 502 | 633 | 794 | 966 | 966 | 876 | 770 | 636 |
| Above Normal (15%) | 474 | 432 | 445 | 526 | 531 | 642 | 796 | 968 | 952 | 760 | 697 | 623 |
| Below Normal (17%) | 511 | 491 | 478 | 515 | 543 | 639 | 790 | 934 | 913 | 710 | 643 | 589 |
| Dry (22%) | 496 | 461 | 469 | 460 | 522 | 618 | 731 | 806 | 741 | 572 | 477 | 441 |
| Critical (15%) | 423 | 370 | 349 | 324 | 340 | 401 | 433 | 448 | 405 | 329 | 270 | 240 |

| Statistic | End of Month Storage (TAF) | | | | | | | | | | | |
|-------------------------------------|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| No Action Alternative (LLT) | | | | | | | | | | | | |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 548 | 494 | 575 | 575 | 575 | 672 | 800 | 975 | 975 | 798 | 718 | 575 |
| 20% | 473 | 424 | 546 | 572 | 570 | 667 | 800 | 975 | 961 | 716 | 620 | 526 |
| 30% | 415 | 399 | 492 | 561 | 562 | 660 | 800 | 975 | 878 | 618 | 547 | 469 |
| 40% | 380 | 376 | 429 | 529 | 555 | 649 | 800 | 970 | 822 | 581 | 491 | 419 |
| 50% | 348 | 351 | 389 | 457 | 518 | 629 | 800 | 917 | 770 | 527 | 428 | 385 |
| 60% | 319 | 330 | 346 | 412 | 474 | 611 | 797 | 835 | 692 | 443 | 396 | 353 |
| 70% | 292 | 299 | 306 | 347 | 417 | 570 | 686 | 706 | 601 | 372 | 332 | 317 |
| 80% | 243 | 259 | 255 | 313 | 360 | 502 | 605 | 585 | 443 | 322 | 285 | 259 |
| 90% | 92 | 115 | 212 | 233 | 330 | 402 | 431 | 463 | 410 | 180 | 90 | 91 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period ^a | 354 | 341 | 388 | 431 | 469 | 580 | 697 | 791 | 712 | 509 | 439 | 379 |
| Water Year Types ^b | | | | | | | | | | | | |
| Wet (32%) | 400 | 401 | 500 | 515 | 505 | 635 | 789 | 943 | 902 | 705 | 623 | 485 |
| Above Normal (15%) | 341 | 311 | 358 | 489 | 516 | 648 | 795 | 930 | 825 | 547 | 483 | 430 |
| Below Normal (17%) | 352 | 338 | 354 | 438 | 522 | 624 | 776 | 891 | 788 | 543 | 451 | 423 |
| Dry (22%) | 339 | 336 | 371 | 386 | 471 | 579 | 665 | 691 | 560 | 376 | 319 | 306 |
| Critical (15%) | 291 | 253 | 245 | 249 | 278 | 345 | 359 | 360 | 324 | 210 | 165 | 159 |

| Statistic | End of Month Storage (TAF) | | | | | | | | | | | |
|---|----------------------------|------|------|-----|-----|-----|-----|------|------|------|------|------|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| No Action Alternative (LLT) minus Existing Condition | | | | | | | | | | | | |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | -103 | -81 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -152 | -82 | -75 |
| 20% | -169 | -151 | -29 | -3 | -3 | 0 | 0 | 0 | -14 | -175 | -180 | -124 |
| 30% | -218 | -176 | -78 | -9 | 0 | 1 | 0 | 0 | -97 | -189 | -220 | -181 |
| 40% | -223 | -192 | -117 | -31 | 1 | 4 | 0 | -5 | -153 | -199 | -234 | -231 |
| 50% | -235 | -193 | -127 | -64 | -18 | -6 | 0 | -58 | -205 | -224 | -232 | -227 |
| 60% | -161 | -130 | -130 | -69 | -32 | -11 | -3 | -94 | -181 | -225 | -181 | -179 |
| 70% | -118 | -121 | -98 | -85 | -50 | -31 | -69 | -118 | -142 | -182 | -144 | -135 |
| 80% | -119 | -115 | -104 | -71 | -67 | -61 | -78 | -148 | -197 | -148 | -106 | -123 |
| 90% | -209 | -182 | -73 | -85 | -29 | -63 | -67 | -56 | -89 | -196 | -236 | -219 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period ^a | -151 | -126 | -79 | -48 | -25 | -18 | -29 | -58 | -112 | -174 | -161 | -146 |
| Water Year Types ^b | | | | | | | | | | | | |
| Wet (32%) | -158 | -119 | -27 | -8 | 3 | 2 | -5 | -23 | -64 | -172 | -147 | -151 |
| Above Normal (15%) | -133 | -122 | -87 | -37 | -14 | 6 | -1 | -38 | -126 | -213 | -215 | -192 |
| Below Normal (17%) | -159 | -153 | -124 | -77 | -21 | -15 | -14 | -43 | -125 | -167 | -192 | -166 |
| Dry (22%) | -157 | -125 | -98 | -74 | -51 | -39 | -66 | -115 | -181 | -196 | -158 | -136 |
| Critical (15%) | -132 | -117 | -104 | -75 | -62 | -57 | -74 | -89 | -81 | -119 | -105 | -80 |

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Table C-4-5. Folsom Lake, End of Month Storage

Existing Condition

| Statistic | End of Month Storage (TAF) | | | | | | | | | | | |
|-------------------------------------|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 652 | 575 | 575 | 575 | 575 | 672 | 800 | 975 | 975 | 950 | 800 | 650 |
| 20% | 642 | 575 | 575 | 575 | 573 | 667 | 800 | 975 | 975 | 891 | 800 | 650 |
| 30% | 632 | 575 | 571 | 570 | 563 | 659 | 800 | 975 | 975 | 807 | 767 | 650 |
| 40% | 603 | 568 | 546 | 560 | 553 | 645 | 800 | 975 | 975 | 781 | 725 | 650 |
| 50% | 583 | 544 | 516 | 521 | 536 | 634 | 800 | 975 | 975 | 751 | 659 | 613 |
| 60% | 480 | 459 | 476 | 481 | 506 | 622 | 800 | 929 | 874 | 667 | 577 | 532 |
| 70% | 411 | 420 | 404 | 431 | 467 | 601 | 755 | 824 | 743 | 554 | 476 | 452 |
| 80% | 361 | 374 | 359 | 385 | 427 | 563 | 682 | 734 | 640 | 469 | 391 | 381 |
| 90% | 301 | 297 | 285 | 318 | 359 | 465 | 498 | 519 | 499 | 376 | 326 | 310 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period ^a | 505 | 467 | 468 | 479 | 494 | 598 | 727 | 850 | 823 | 684 | 600 | 525 |
| Water Year Types^b | | | | | | | | | | | | |
| Wet (32%) | 559 | 520 | 527 | 523 | 502 | 633 | 794 | 966 | 966 | 876 | 770 | 636 |
| Above Normal (15%) | 474 | 432 | 445 | 526 | 531 | 642 | 796 | 968 | 952 | 760 | 697 | 623 |
| Below Normal (17%) | 511 | 491 | 478 | 515 | 543 | 639 | 790 | 934 | 913 | 710 | 643 | 589 |
| Dry (22%) | 496 | 461 | 469 | 460 | 522 | 618 | 731 | 806 | 741 | 572 | 477 | 441 |
| Critical (15%) | 423 | 370 | 349 | 324 | 340 | 401 | 433 | 448 | 405 | 329 | 270 | 240 |

Alternative 4 H1 (LLT)

| Statistic | End of Month Storage (TAF) | | | | | | | | | | | |
|-------------------------------------|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 600 | 559 | 575 | 575 | 575 | 670 | 800 | 975 | 975 | 744 | 674 | 624 |
| 20% | 522 | 517 | 568 | 574 | 571 | 667 | 800 | 975 | 885 | 657 | 567 | 554 |
| 30% | 449 | 446 | 510 | 565 | 563 | 660 | 800 | 975 | 837 | 583 | 529 | 506 |
| 40% | 398 | 401 | 476 | 541 | 556 | 649 | 800 | 937 | 752 | 549 | 478 | 463 |
| 50% | 349 | 364 | 418 | 463 | 524 | 634 | 800 | 883 | 694 | 472 | 430 | 421 |
| 60% | 320 | 319 | 354 | 425 | 445 | 617 | 766 | 780 | 614 | 410 | 378 | 360 |
| 70% | 289 | 302 | 307 | 382 | 421 | 577 | 687 | 679 | 526 | 359 | 321 | 317 |
| 80% | 249 | 264 | 268 | 313 | 375 | 505 | 596 | 575 | 421 | 301 | 276 | 261 |
| 90% | 99 | 112 | 195 | 215 | 306 | 423 | 434 | 439 | 367 | 165 | 91 | 101 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period ^a | 367 | 361 | 398 | 437 | 471 | 583 | 698 | 780 | 662 | 476 | 417 | 394 |
| Water Year Types^b | | | | | | | | | | | | |
| Wet (32%) | 421 | 429 | 510 | 519 | 505 | 636 | 789 | 939 | 851 | 663 | 581 | 541 |
| Above Normal (15%) | 353 | 339 | 385 | 507 | 525 | 648 | 794 | 913 | 774 | 510 | 445 | 424 |
| Below Normal (17%) | 377 | 369 | 368 | 450 | 530 | 629 | 778 | 864 | 692 | 476 | 416 | 401 |
| Dry (22%) | 329 | 330 | 360 | 383 | 464 | 579 | 663 | 672 | 531 | 367 | 325 | 311 |
| Critical (15%) | 308 | 272 | 259 | 259 | 284 | 354 | 366 | 364 | 297 | 204 | 175 | 163 |

Alternative 4 H1 (LLT) minus Existing Condition

| Statistic | End of Month Storage (TAF) | | | | | | | | | | | |
|-------------------------------------|----------------------------|------|------|------|-----|-----|-----|------|------|------|------|------|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | -52 | -16 | 0 | 0 | 0 | -2 | 0 | 0 | 0 | -206 | -126 | -26 |
| 20% | -120 | -58 | -7 | 0 | -1 | 0 | 0 | 0 | -90 | -233 | -233 | -96 |
| 30% | -183 | -129 | -60 | -5 | 0 | 1 | 0 | 0 | -138 | -224 | -238 | -144 |
| 40% | -206 | -167 | -70 | -19 | 3 | 4 | 0 | -38 | -223 | -232 | -247 | -187 |
| 50% | -234 | -180 | -99 | -58 | -12 | 0 | 0 | -92 | -281 | -279 | -229 | -191 |
| 60% | -160 | -140 | -122 | -56 | -61 | -5 | -34 | -149 | -260 | -258 | -198 | -172 |
| 70% | -122 | -118 | -97 | -49 | -45 | -24 | -68 | -145 | -218 | -195 | -155 | -135 |
| 80% | -112 | -110 | -91 | -72 | -51 | -57 | -87 | -159 | -218 | -168 | -114 | -121 |
| 90% | -202 | -185 | -90 | -103 | -53 | -41 | -64 | -80 | -132 | -211 | -235 | -209 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period ^a | -138 | -107 | -70 | -42 | -23 | -15 | -28 | -70 | -162 | -207 | -183 | -131 |
| Water Year Types^b | | | | | | | | | | | | |
| Wet (32%) | -138 | -91 | -17 | -4 | 3 | 3 | -5 | -27 | -115 | -214 | -189 | -95 |
| Above Normal (15%) | -121 | -94 | -60 | -19 | -6 | 6 | -2 | -55 | -178 | -250 | -252 | -198 |
| Below Normal (17%) | -134 | -121 | -110 | -65 | -13 | -10 | -11 | -70 | -221 | -235 | -227 | -187 |
| Dry (22%) | -167 | -131 | -108 | -78 | -58 | -39 | -68 | -134 | -210 | -204 | -152 | -131 |
| Critical (15%) | -116 | -99 | -90 | -65 | -55 | -47 | -67 | -84 | -108 | -124 | -96 | -76 |

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Alternative 4 H1 represents the low delta outflow scenario of Alternative 4.

Table C-4-6. Folsom Lake, End of Month Storage

Existing Condition

| Statistic | End of Month Storage (TAF) | | | | | | | | | | | |
|-------------------------------------|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 652 | 575 | 575 | 575 | 575 | 672 | 800 | 975 | 975 | 950 | 800 | 650 |
| 20% | 642 | 575 | 575 | 575 | 573 | 667 | 800 | 975 | 975 | 891 | 800 | 650 |
| 30% | 632 | 575 | 571 | 570 | 563 | 659 | 800 | 975 | 975 | 807 | 767 | 650 |
| 40% | 603 | 568 | 546 | 560 | 553 | 645 | 800 | 975 | 975 | 781 | 725 | 650 |
| 50% | 583 | 544 | 516 | 521 | 536 | 634 | 800 | 975 | 975 | 751 | 659 | 613 |
| 60% | 480 | 459 | 476 | 481 | 506 | 622 | 800 | 929 | 874 | 667 | 577 | 532 |
| 70% | 411 | 420 | 404 | 431 | 467 | 601 | 755 | 824 | 743 | 554 | 476 | 452 |
| 80% | 361 | 374 | 359 | 385 | 427 | 563 | 682 | 734 | 640 | 469 | 391 | 381 |
| 90% | 301 | 297 | 285 | 318 | 359 | 465 | 498 | 519 | 499 | 376 | 326 | 310 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period ^a | 505 | 467 | 468 | 479 | 494 | 598 | 727 | 850 | 823 | 684 | 600 | 525 |
| Water Year Types^b | | | | | | | | | | | | |
| Wet (32%) | 559 | 520 | 527 | 523 | 502 | 633 | 794 | 966 | 966 | 876 | 770 | 636 |
| Above Normal (15%) | 474 | 432 | 445 | 526 | 531 | 642 | 796 | 968 | 952 | 760 | 697 | 623 |
| Below Normal (17%) | 511 | 491 | 478 | 515 | 543 | 639 | 790 | 934 | 913 | 710 | 643 | 589 |
| Dry (22%) | 496 | 461 | 469 | 460 | 522 | 618 | 731 | 806 | 741 | 572 | 477 | 441 |
| Critical (15%) | 423 | 370 | 349 | 324 | 340 | 401 | 433 | 448 | 405 | 329 | 270 | 240 |

Alternative 4 H2 (LLT)

| Statistic | End of Month Storage (TAF) | | | | | | | | | | | |
|-------------------------------------|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 600 | 559 | 575 | 575 | 575 | 672 | 800 | 975 | 975 | 780 | 668 | 639 |
| 20% | 538 | 518 | 574 | 572 | 575 | 667 | 800 | 975 | 971 | 696 | 600 | 581 |
| 30% | 502 | 489 | 520 | 561 | 563 | 662 | 800 | 975 | 871 | 649 | 546 | 530 |
| 40% | 428 | 417 | 488 | 541 | 559 | 655 | 800 | 969 | 808 | 592 | 520 | 497 |
| 50% | 394 | 390 | 437 | 488 | 535 | 636 | 800 | 913 | 736 | 528 | 460 | 433 |
| 60% | 345 | 338 | 385 | 446 | 470 | 621 | 796 | 783 | 704 | 472 | 412 | 383 |
| 70% | 314 | 325 | 308 | 390 | 428 | 591 | 691 | 736 | 604 | 401 | 369 | 348 |
| 80% | 285 | 289 | 271 | 319 | 392 | 526 | 636 | 592 | 473 | 359 | 315 | 298 |
| 90% | 114 | 113 | 231 | 254 | 327 | 445 | 452 | 455 | 414 | 220 | 158 | 139 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period ^a | 394 | 380 | 411 | 447 | 478 | 589 | 705 | 795 | 712 | 518 | 449 | 422 |
| Water Year Types^b | | | | | | | | | | | | |
| Wet (32%) | 448 | 442 | 508 | 519 | 505 | 635 | 789 | 943 | 889 | 700 | 611 | 568 |
| Above Normal (15%) | 370 | 350 | 392 | 507 | 524 | 648 | 795 | 921 | 830 | 569 | 498 | 479 |
| Below Normal (17%) | 404 | 393 | 392 | 468 | 537 | 636 | 786 | 899 | 793 | 558 | 477 | 454 |
| Dry (22%) | 368 | 363 | 390 | 404 | 481 | 591 | 677 | 694 | 569 | 393 | 345 | 326 |
| Critical (15%) | 327 | 290 | 275 | 273 | 299 | 369 | 383 | 382 | 328 | 210 | 170 | 157 |

Alternative 4 H2 (LLT) minus Existing Condition

| Statistic | End of Month Storage (TAF) | | | | | | | | | | | |
|-------------------------------------|----------------------------|------|-----|-----|-----|-----|-----|------|------|------|------|------|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | -52 | -16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -170 | -132 | -11 |
| 20% | -104 | -57 | -1 | -3 | 2 | 0 | 0 | 0 | -4 | -194 | -200 | -69 |
| 30% | -130 | -86 | -51 | -9 | 0 | 3 | 0 | 0 | -104 | -157 | -222 | -120 |
| 40% | -175 | -151 | -58 | -19 | 6 | 10 | 0 | -6 | -167 | -189 | -205 | -153 |
| 50% | -189 | -154 | -79 | -33 | -1 | 2 | 0 | -62 | -239 | -223 | -199 | -180 |
| 60% | -135 | -121 | -91 | -35 | -36 | -1 | -4 | -146 | -170 | -196 | -165 | -149 |
| 70% | -97 | -95 | -96 | -41 | -39 | -11 | -64 | -88 | -139 | -153 | -107 | -104 |
| 80% | -76 | -85 | -88 | -65 | -35 | -37 | -47 | -142 | -167 | -110 | -76 | -83 |
| 90% | -187 | -183 | -55 | -64 | -32 | -19 | -46 | -64 | -85 | -156 | -168 | -171 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period ^a | -111 | -87 | -56 | -32 | -16 | -9 | -21 | -55 | -112 | -166 | -152 | -103 |
| Water Year Types^b | | | | | | | | | | | | |
| Wet (32%) | -111 | -78 | -19 | -4 | 3 | 2 | -5 | -24 | -77 | -176 | -159 | -68 |
| Above Normal (15%) | -104 | -83 | -53 | -19 | -7 | 6 | -1 | -47 | -122 | -190 | -199 | -144 |
| Below Normal (17%) | -107 | -98 | -85 | -47 | -6 | -3 | -3 | -34 | -120 | -152 | -166 | -134 |
| Dry (22%) | -128 | -98 | -78 | -56 | -41 | -27 | -54 | -112 | -172 | -179 | -132 | -115 |
| Critical (15%) | -96 | -80 | -74 | -51 | -41 | -32 | -50 | -66 | -77 | -118 | -100 | -82 |

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Alternative 4 H2 represents the enhanced spring delta outflow scenario of Alternative 4.

Table C-4-7. Folsom Lake, End of Month Storage

Existing Condition

| Statistic | End of Month Storage (TAF) | | | | | | | | | | | |
|-------------------------------------|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 652 | 575 | 575 | 575 | 575 | 672 | 800 | 975 | 975 | 950 | 800 | 650 |
| 20% | 642 | 575 | 575 | 575 | 573 | 667 | 800 | 975 | 975 | 891 | 800 | 650 |
| 30% | 632 | 575 | 571 | 570 | 563 | 659 | 800 | 975 | 975 | 807 | 767 | 650 |
| 40% | 603 | 568 | 546 | 560 | 553 | 645 | 800 | 975 | 975 | 781 | 725 | 650 |
| 50% | 583 | 544 | 516 | 521 | 536 | 634 | 800 | 975 | 975 | 751 | 659 | 613 |
| 60% | 480 | 459 | 476 | 481 | 506 | 622 | 800 | 929 | 874 | 667 | 577 | 532 |
| 70% | 411 | 420 | 404 | 431 | 467 | 601 | 755 | 824 | 743 | 554 | 476 | 452 |
| 80% | 361 | 374 | 359 | 385 | 427 | 563 | 682 | 734 | 640 | 469 | 391 | 381 |
| 90% | 301 | 297 | 285 | 318 | 359 | 465 | 498 | 519 | 499 | 376 | 326 | 310 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period ^a | 505 | 467 | 468 | 479 | 494 | 598 | 727 | 850 | 823 | 684 | 600 | 525 |
| Water Year Types^b | | | | | | | | | | | | |
| Wet (32%) | 559 | 520 | 527 | 523 | 502 | 633 | 794 | 966 | 966 | 876 | 770 | 636 |
| Above Normal (15%) | 474 | 432 | 445 | 526 | 531 | 642 | 796 | 968 | 952 | 760 | 697 | 623 |
| Below Normal (17%) | 511 | 491 | 478 | 515 | 543 | 639 | 790 | 934 | 913 | 710 | 643 | 589 |
| Dry (22%) | 496 | 461 | 469 | 460 | 522 | 618 | 731 | 806 | 741 | 572 | 477 | 441 |
| Critical (15%) | 423 | 370 | 349 | 324 | 340 | 401 | 433 | 448 | 405 | 329 | 270 | 240 |

Alternative 4 H3 (LLT)

| Statistic | End of Month Storage (TAF) | | | | | | | | | | | |
|-------------------------------------|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 555 | 512 | 575 | 575 | 575 | 670 | 800 | 975 | 975 | 764 | 677 | 558 |
| 20% | 444 | 431 | 549 | 573 | 574 | 667 | 800 | 975 | 886 | 678 | 584 | 503 |
| 30% | 422 | 400 | 500 | 563 | 563 | 659 | 800 | 975 | 839 | 581 | 520 | 464 |
| 40% | 377 | 380 | 430 | 541 | 556 | 649 | 800 | 937 | 753 | 542 | 474 | 447 |
| 50% | 345 | 345 | 382 | 437 | 523 | 632 | 800 | 873 | 691 | 476 | 437 | 389 |
| 60% | 323 | 313 | 341 | 395 | 430 | 617 | 769 | 781 | 640 | 411 | 379 | 349 |
| 70% | 287 | 297 | 302 | 359 | 404 | 561 | 681 | 677 | 557 | 361 | 319 | 313 |
| 80% | 220 | 243 | 257 | 298 | 362 | 509 | 588 | 561 | 412 | 329 | 275 | 236 |
| 90% | 90 | 100 | 188 | 206 | 283 | 383 | 401 | 411 | 331 | 157 | 90 | 90 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period ^a | 345 | 337 | 385 | 428 | 463 | 577 | 693 | 774 | 666 | 475 | 417 | 371 |
| Water Year Types^b | | | | | | | | | | | | |
| Wet (32%) | 390 | 396 | 500 | 515 | 505 | 635 | 789 | 938 | 856 | 669 | 587 | 485 |
| Above Normal (15%) | 335 | 313 | 361 | 495 | 518 | 648 | 795 | 913 | 775 | 508 | 443 | 405 |
| Below Normal (17%) | 345 | 339 | 351 | 438 | 523 | 622 | 775 | 864 | 724 | 488 | 431 | 417 |
| Dry (22%) | 330 | 322 | 357 | 378 | 455 | 571 | 657 | 662 | 519 | 358 | 318 | 302 |
| Critical (15%) | 281 | 251 | 239 | 233 | 262 | 332 | 346 | 346 | 299 | 182 | 152 | 143 |

Alternative 4 H3 (LLT) minus Existing Condition

| Statistic | End of Month Storage (TAF) | | | | | | | | | | | |
|-------------------------------------|----------------------------|------|------|------|-----|-----|-----|------|------|------|------|------|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | -96 | -63 | 0 | 0 | 0 | -2 | 0 | 0 | 0 | -186 | -123 | -92 |
| 20% | -198 | -144 | -26 | -2 | 1 | 0 | 0 | 0 | -89 | -213 | -216 | -147 |
| 30% | -210 | -175 | -71 | -7 | 0 | 0 | 0 | 0 | -136 | -225 | -247 | -186 |
| 40% | -226 | -188 | -116 | -19 | 2 | 3 | 0 | -38 | -222 | -238 | -251 | -203 |
| 50% | -238 | -198 | -134 | -84 | -13 | -3 | 0 | -102 | -284 | -275 | -222 | -224 |
| 60% | -157 | -146 | -135 | -86 | -76 | -6 | -31 | -148 | -234 | -256 | -198 | -183 |
| 70% | -123 | -123 | -102 | -72 | -62 | -40 | -74 | -147 | -187 | -193 | -157 | -139 |
| 80% | -141 | -130 | -102 | -87 | -64 | -54 | -94 | -172 | -227 | -141 | -115 | -145 |
| 90% | -211 | -197 | -98 | -112 | -76 | -82 | -97 | -109 | -169 | -219 | -236 | -220 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period ^a | -160 | -131 | -83 | -51 | -30 | -22 | -33 | -75 | -157 | -209 | -183 | -154 |
| Water Year Types^b | | | | | | | | | | | | |
| Wet (32%) | -169 | -124 | -27 | -8 | 3 | 3 | -5 | -29 | -110 | -208 | -183 | -151 |
| Above Normal (15%) | -139 | -119 | -84 | -31 | -13 | 6 | -1 | -54 | -177 | -251 | -254 | -218 |
| Below Normal (17%) | -166 | -152 | -127 | -77 | -20 | -17 | -15 | -69 | -189 | -222 | -212 | -172 |
| Dry (22%) | -166 | -139 | -111 | -82 | -67 | -47 | -74 | -144 | -222 | -214 | -159 | -139 |
| Critical (15%) | -142 | -119 | -110 | -90 | -78 | -69 | -87 | -102 | -106 | -147 | -118 | -96 |

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Alternative 4 H3 represents the fall X2 scenario of Alternative 4.

Table C-4-8. Folsom Lake, End of Month Storage

| Statistic | End of Month Storage (TAF) | | | | | | | | | | | |
|-------------------------------------|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Existing Condition | | | | | | | | | | | | |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 652 | 575 | 575 | 575 | 575 | 672 | 800 | 975 | 975 | 950 | 800 | 650 |
| 20% | 642 | 575 | 575 | 575 | 573 | 667 | 800 | 975 | 975 | 891 | 800 | 650 |
| 30% | 632 | 575 | 571 | 570 | 563 | 659 | 800 | 975 | 975 | 807 | 767 | 650 |
| 40% | 603 | 568 | 546 | 560 | 553 | 645 | 800 | 975 | 975 | 781 | 725 | 650 |
| 50% | 583 | 544 | 516 | 521 | 536 | 634 | 800 | 975 | 975 | 751 | 659 | 613 |
| 60% | 480 | 459 | 476 | 481 | 506 | 622 | 800 | 929 | 874 | 667 | 577 | 532 |
| 70% | 411 | 420 | 404 | 431 | 467 | 601 | 755 | 824 | 743 | 554 | 476 | 452 |
| 80% | 361 | 374 | 359 | 385 | 427 | 563 | 682 | 734 | 640 | 469 | 391 | 381 |
| 90% | 301 | 297 | 285 | 318 | 359 | 465 | 498 | 519 | 499 | 376 | 326 | 310 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period ^a | 505 | 467 | 468 | 479 | 494 | 598 | 727 | 850 | 823 | 684 | 600 | 525 |
| Water Year Types ^b | | | | | | | | | | | | |
| Wet (32%) | 559 | 520 | 527 | 523 | 502 | 633 | 794 | 966 | 966 | 876 | 770 | 636 |
| Above Normal (15%) | 474 | 432 | 445 | 526 | 531 | 642 | 796 | 968 | 952 | 760 | 697 | 623 |
| Below Normal (17%) | 511 | 491 | 478 | 515 | 543 | 639 | 790 | 934 | 913 | 710 | 643 | 589 |
| Dry (22%) | 496 | 461 | 469 | 460 | 522 | 618 | 731 | 806 | 741 | 572 | 477 | 441 |
| Critical (15%) | 423 | 370 | 349 | 324 | 340 | 401 | 433 | 448 | 405 | 329 | 270 | 240 |

| Statistic | End of Month Storage (TAF) | | | | | | | | | | | |
|-------------------------------------|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Alternative 4 H4 (LLT) | | | | | | | | | | | | |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 575 | 517 | 575 | 575 | 575 | 672 | 800 | 975 | 975 | 787 | 683 | 574 |
| 20% | 474 | 447 | 564 | 572 | 574 | 667 | 800 | 975 | 971 | 702 | 604 | 514 |
| 30% | 431 | 404 | 502 | 561 | 563 | 662 | 800 | 975 | 877 | 650 | 546 | 472 |
| 40% | 386 | 381 | 446 | 541 | 556 | 652 | 800 | 973 | 824 | 593 | 512 | 423 |
| 50% | 366 | 364 | 389 | 449 | 523 | 634 | 800 | 914 | 742 | 540 | 459 | 396 |
| 60% | 322 | 333 | 349 | 414 | 456 | 618 | 787 | 788 | 692 | 454 | 387 | 356 |
| 70% | 310 | 303 | 297 | 361 | 411 | 578 | 691 | 716 | 607 | 376 | 335 | 331 |
| 80% | 246 | 268 | 266 | 317 | 381 | 519 | 608 | 575 | 470 | 336 | 309 | 235 |
| 90% | 128 | 129 | 221 | 253 | 344 | 411 | 419 | 444 | 380 | 216 | 128 | 136 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period ^a | 360 | 351 | 394 | 436 | 471 | 584 | 701 | 792 | 706 | 515 | 441 | 380 |
| Water Year Types ^b | | | | | | | | | | | | |
| Wet (32%) | 402 | 406 | 497 | 515 | 505 | 635 | 789 | 942 | 889 | 695 | 606 | 468 |
| Above Normal (15%) | 331 | 313 | 363 | 490 | 514 | 648 | 795 | 924 | 829 | 568 | 488 | 436 |
| Below Normal (17%) | 362 | 355 | 366 | 449 | 527 | 629 | 780 | 896 | 790 | 559 | 474 | 450 |
| Dry (22%) | 352 | 342 | 374 | 392 | 472 | 584 | 673 | 688 | 560 | 393 | 337 | 314 |
| Critical (15%) | 305 | 275 | 262 | 261 | 286 | 356 | 370 | 369 | 307 | 205 | 157 | 148 |

| Statistic | End of Month Storage (TAF) | | | | | | | | | | | |
|--|----------------------------|------|------|-----|-----|-----|-----|------|------|------|------|------|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Alternative 4 H4 (LLT) minus Existing Condition | | | | | | | | | | | | |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | -76 | -58 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -163 | -117 | -76 |
| 20% | -168 | -128 | -11 | -3 | 1 | 0 | 0 | 0 | -4 | -189 | -196 | -136 |
| 30% | -201 | -171 | -69 | -9 | 0 | 3 | 0 | 0 | -98 | -157 | -221 | -178 |
| 40% | -217 | -187 | -100 | -19 | 2 | 7 | 0 | -2 | -151 | -188 | -213 | -227 |
| 50% | -217 | -180 | -128 | -72 | -13 | 0 | 0 | -61 | -232 | -211 | -200 | -217 |
| 60% | -158 | -126 | -127 | -67 | -50 | -4 | -13 | -141 | -182 | -214 | -189 | -176 |
| 70% | -101 | -116 | -107 | -70 | -56 | -24 | -64 | -108 | -137 | -178 | -141 | -121 |
| 80% | -115 | -106 | -93 | -68 | -46 | -44 | -74 | -159 | -169 | -134 | -82 | -146 |
| 90% | -173 | -168 | -64 | -65 | -15 | -54 | -79 | -75 | -119 | -160 | -198 | -174 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period ^a | -145 | -116 | -74 | -43 | -23 | -14 | -25 | -58 | -118 | -169 | -159 | -145 |
| Water Year Types ^b | | | | | | | | | | | | |
| Wet (32%) | -157 | -113 | -30 | -8 | 3 | 3 | -5 | -24 | -77 | -181 | -164 | -167 |
| Above Normal (15%) | -143 | -119 | -82 | -36 | -17 | 6 | -1 | -44 | -123 | -192 | -209 | -186 |
| Below Normal (17%) | -149 | -135 | -111 | -66 | -16 | -11 | -10 | -38 | -124 | -151 | -169 | -139 |
| Dry (22%) | -144 | -119 | -94 | -68 | -50 | -34 | -58 | -118 | -181 | -179 | -140 | -127 |
| Critical (15%) | -118 | -95 | -87 | -63 | -54 | -45 | -63 | -79 | -98 | -124 | -113 | -91 |

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Alternative 4 H4 represents the high delta outflow scenario of Alternative 4.

Table C-4-17. Folsom Lake, End of Month Storage

No Action Alternative (LLT)

| Statistic | End of Month Storage (TAF) | | | | | | | | | | | |
|-------------------------------------|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 548 | 494 | 575 | 575 | 575 | 672 | 800 | 975 | 975 | 798 | 718 | 575 |
| 20% | 473 | 424 | 546 | 572 | 570 | 667 | 800 | 975 | 961 | 716 | 620 | 526 |
| 30% | 415 | 399 | 492 | 561 | 562 | 660 | 800 | 975 | 878 | 618 | 547 | 469 |
| 40% | 380 | 376 | 429 | 529 | 555 | 649 | 800 | 970 | 822 | 581 | 491 | 419 |
| 50% | 348 | 351 | 389 | 457 | 518 | 629 | 800 | 917 | 770 | 527 | 428 | 385 |
| 60% | 319 | 330 | 346 | 412 | 474 | 611 | 797 | 835 | 692 | 443 | 396 | 353 |
| 70% | 292 | 299 | 306 | 347 | 417 | 570 | 686 | 706 | 601 | 372 | 332 | 317 |
| 80% | 243 | 259 | 255 | 313 | 360 | 502 | 605 | 585 | 443 | 322 | 285 | 259 |
| 90% | 92 | 115 | 212 | 233 | 330 | 402 | 431 | 463 | 410 | 180 | 90 | 91 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period ^a | 354 | 341 | 388 | 431 | 469 | 580 | 697 | 791 | 712 | 509 | 439 | 379 |
| Water Year Types^b | | | | | | | | | | | | |
| Wet (32%) | 400 | 401 | 500 | 515 | 505 | 635 | 789 | 943 | 902 | 705 | 623 | 485 |
| Above Normal (15%) | 341 | 311 | 358 | 489 | 516 | 648 | 795 | 930 | 825 | 547 | 483 | 430 |
| Below Normal (17%) | 352 | 338 | 354 | 438 | 522 | 624 | 776 | 891 | 788 | 543 | 451 | 423 |
| Dry (22%) | 339 | 336 | 371 | 386 | 471 | 579 | 665 | 691 | 560 | 376 | 319 | 306 |
| Critical (15%) | 291 | 253 | 245 | 249 | 278 | 345 | 359 | 360 | 324 | 210 | 165 | 159 |

Alternative 4 H1 (LLT)

| Statistic | End of Month Storage (TAF) | | | | | | | | | | | |
|-------------------------------------|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 600 | 559 | 575 | 575 | 575 | 670 | 800 | 975 | 975 | 744 | 674 | 624 |
| 20% | 522 | 517 | 568 | 574 | 571 | 667 | 800 | 975 | 885 | 657 | 567 | 554 |
| 30% | 449 | 446 | 510 | 565 | 563 | 660 | 800 | 975 | 837 | 583 | 529 | 506 |
| 40% | 398 | 401 | 476 | 541 | 556 | 649 | 800 | 937 | 752 | 549 | 478 | 463 |
| 50% | 349 | 364 | 418 | 463 | 524 | 634 | 800 | 883 | 694 | 472 | 430 | 421 |
| 60% | 320 | 319 | 354 | 425 | 445 | 617 | 766 | 780 | 614 | 410 | 378 | 360 |
| 70% | 289 | 302 | 307 | 382 | 421 | 577 | 687 | 679 | 526 | 359 | 321 | 317 |
| 80% | 249 | 264 | 268 | 313 | 375 | 505 | 596 | 575 | 421 | 301 | 276 | 261 |
| 90% | 99 | 112 | 195 | 215 | 306 | 423 | 434 | 439 | 367 | 165 | 91 | 101 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period ^a | 367 | 361 | 398 | 437 | 471 | 583 | 698 | 780 | 662 | 476 | 417 | 394 |
| Water Year Types^b | | | | | | | | | | | | |
| Wet (32%) | 421 | 429 | 510 | 519 | 505 | 636 | 789 | 939 | 851 | 663 | 581 | 541 |
| Above Normal (15%) | 353 | 339 | 385 | 507 | 525 | 648 | 794 | 913 | 774 | 510 | 445 | 424 |
| Below Normal (17%) | 377 | 369 | 368 | 450 | 530 | 629 | 778 | 864 | 692 | 476 | 416 | 401 |
| Dry (22%) | 329 | 330 | 360 | 383 | 464 | 579 | 663 | 672 | 531 | 367 | 325 | 311 |
| Critical (15%) | 308 | 272 | 259 | 259 | 284 | 354 | 366 | 364 | 297 | 204 | 175 | 163 |

Alternative 4 H1 (LLT) minus No Action Alternative (LLT)

| Statistic | End of Month Storage (TAF) | | | | | | | | | | | |
|-------------------------------------|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 52 | 65 | 0 | 0 | 0 | -2 | 0 | 0 | 0 | -54 | -44 | 49 |
| 20% | 50 | 93 | 22 | 3 | 2 | 0 | 0 | 0 | -76 | -59 | -54 | 28 |
| 30% | 35 | 46 | 18 | 4 | 1 | 0 | 0 | 0 | -40 | -35 | -18 | 38 |
| 40% | 18 | 25 | 46 | 12 | 1 | 0 | 0 | -32 | -70 | -33 | -14 | 44 |
| 50% | 1 | 13 | 29 | 6 | 6 | 6 | 0 | -34 | -75 | -55 | 3 | 36 |
| 60% | 1 | -11 | 8 | 13 | -28 | 6 | -30 | -55 | -78 | -33 | -17 | 6 |
| 70% | -3 | 3 | 1 | 35 | 5 | 8 | 1 | -27 | -75 | -13 | -11 | 0 |
| 80% | 7 | 5 | 13 | 0 | 15 | 3 | -9 | -11 | -21 | -21 | -9 | 2 |
| 90% | 7 | -3 | -17 | -18 | -24 | 22 | 4 | -24 | -44 | -15 | 0 | 10 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period ^a | 13 | 20 | 9 | 7 | 2 | 3 | 1 | -12 | -50 | -33 | -22 | 15 |
| Water Year Types^b | | | | | | | | | | | | |
| Wet (32%) | 20 | 28 | 10 | 4 | 0 | 0 | 0 | -4 | -51 | -42 | -42 | 56 |
| Above Normal (15%) | 12 | 28 | 27 | 18 | 8 | 0 | -2 | -16 | -51 | -36 | -38 | -6 |
| Below Normal (17%) | 25 | 31 | 14 | 12 | 8 | 5 | 3 | -27 | -96 | -68 | -35 | -21 |
| Dry (22%) | -10 | -6 | -10 | -4 | -6 | 0 | -2 | -19 | -29 | -9 | 6 | 5 |
| Critical (15%) | 17 | 18 | 14 | 11 | 6 | 10 | 7 | 5 | -27 | -6 | 10 | 4 |

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Alternative 4 H1 represents the low delta outflow scenario of Alternative 4.

Table C-4-18. Folsom Lake, End of Month Storage

No Action Alternative (LLT)

| Statistic | End of Month Storage (TAF) | | | | | | | | | | | |
|-------------------------------------|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 548 | 494 | 575 | 575 | 575 | 672 | 800 | 975 | 975 | 798 | 718 | 575 |
| 20% | 473 | 424 | 546 | 572 | 570 | 667 | 800 | 975 | 961 | 716 | 620 | 526 |
| 30% | 415 | 399 | 492 | 561 | 562 | 660 | 800 | 975 | 878 | 618 | 547 | 469 |
| 40% | 380 | 376 | 429 | 529 | 555 | 649 | 800 | 970 | 822 | 581 | 491 | 419 |
| 50% | 348 | 351 | 389 | 457 | 518 | 629 | 800 | 917 | 770 | 527 | 428 | 385 |
| 60% | 319 | 330 | 346 | 412 | 474 | 611 | 797 | 835 | 692 | 443 | 396 | 353 |
| 70% | 292 | 299 | 306 | 347 | 417 | 570 | 686 | 706 | 601 | 372 | 332 | 317 |
| 80% | 243 | 259 | 255 | 313 | 360 | 502 | 605 | 585 | 443 | 322 | 285 | 259 |
| 90% | 92 | 115 | 212 | 233 | 330 | 402 | 431 | 463 | 410 | 180 | 90 | 91 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period ^a | 354 | 341 | 388 | 431 | 469 | 580 | 697 | 791 | 712 | 509 | 439 | 379 |
| Water Year Types^b | | | | | | | | | | | | |
| Wet (32%) | 400 | 401 | 500 | 515 | 505 | 635 | 789 | 943 | 902 | 705 | 623 | 485 |
| Above Normal (15%) | 341 | 311 | 358 | 489 | 516 | 648 | 795 | 930 | 825 | 547 | 483 | 430 |
| Below Normal (17%) | 352 | 338 | 354 | 438 | 522 | 624 | 776 | 891 | 788 | 543 | 451 | 423 |
| Dry (22%) | 339 | 336 | 371 | 386 | 471 | 579 | 665 | 691 | 560 | 376 | 319 | 306 |
| Critical (15%) | 291 | 253 | 245 | 249 | 278 | 345 | 359 | 360 | 324 | 210 | 165 | 159 |

Alternative 4 H2 (LLT)

| Statistic | End of Month Storage (TAF) | | | | | | | | | | | |
|-------------------------------------|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 600 | 559 | 575 | 575 | 575 | 672 | 800 | 975 | 975 | 780 | 668 | 639 |
| 20% | 538 | 518 | 574 | 572 | 575 | 667 | 800 | 975 | 971 | 696 | 600 | 581 |
| 30% | 502 | 489 | 520 | 561 | 563 | 662 | 800 | 975 | 871 | 649 | 546 | 530 |
| 40% | 428 | 417 | 488 | 541 | 559 | 655 | 800 | 969 | 808 | 592 | 520 | 497 |
| 50% | 394 | 390 | 437 | 488 | 535 | 636 | 800 | 913 | 736 | 528 | 460 | 433 |
| 60% | 345 | 338 | 385 | 446 | 470 | 621 | 796 | 783 | 704 | 472 | 412 | 383 |
| 70% | 314 | 325 | 308 | 390 | 428 | 591 | 691 | 736 | 604 | 401 | 369 | 348 |
| 80% | 285 | 289 | 271 | 319 | 392 | 526 | 636 | 592 | 473 | 359 | 315 | 298 |
| 90% | 114 | 113 | 231 | 254 | 327 | 445 | 452 | 455 | 414 | 220 | 158 | 139 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period ^a | 394 | 380 | 411 | 447 | 478 | 589 | 705 | 795 | 712 | 518 | 449 | 422 |
| Water Year Types^b | | | | | | | | | | | | |
| Wet (32%) | 448 | 442 | 508 | 519 | 505 | 635 | 789 | 943 | 889 | 700 | 611 | 568 |
| Above Normal (15%) | 370 | 350 | 392 | 507 | 524 | 648 | 795 | 921 | 830 | 569 | 498 | 479 |
| Below Normal (17%) | 404 | 393 | 392 | 468 | 537 | 636 | 786 | 899 | 793 | 558 | 477 | 454 |
| Dry (22%) | 368 | 363 | 390 | 404 | 481 | 591 | 677 | 694 | 569 | 393 | 345 | 326 |
| Critical (15%) | 327 | 290 | 275 | 273 | 299 | 369 | 383 | 382 | 328 | 210 | 170 | 157 |

Alternative 4 H2 (LLT) minus No Action Alternative (LLT)

| Statistic | End of Month Storage (TAF) | | | | | | | | | | | |
|-------------------------------------|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 52 | 65 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -18 | -50 | 64 |
| 20% | 66 | 95 | 29 | 0 | 5 | 0 | 0 | 0 | 9 | -20 | -20 | 56 |
| 30% | 88 | 90 | 27 | 0 | 1 | 2 | 0 | 0 | -6 | 32 | -2 | 61 |
| 40% | 48 | 41 | 59 | 11 | 4 | 6 | 0 | -1 | -13 | 10 | 29 | 78 |
| 50% | 46 | 39 | 48 | 31 | 17 | 7 | 0 | -4 | -34 | 1 | 32 | 48 |
| 60% | 26 | 9 | 39 | 34 | -4 | 10 | -1 | -52 | 12 | 29 | 16 | 30 |
| 70% | 22 | 26 | 2 | 43 | 11 | 21 | 5 | 30 | 3 | 28 | 37 | 31 |
| 80% | 42 | 30 | 16 | 6 | 32 | 24 | 31 | 7 | 30 | 37 | 30 | 39 |
| 90% | 22 | -1 | 18 | 21 | -3 | 44 | 21 | -8 | 3 | 40 | 68 | 48 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period ^a | 40 | 39 | 23 | 16 | 9 | 8 | 8 | 4 | 0 | 8 | 9 | 43 |
| Water Year Types^b | | | | | | | | | | | | |
| Wet (32%) | 48 | 41 | 9 | 4 | 0 | 0 | 0 | -1 | -13 | -4 | -11 | 83 |
| Above Normal (15%) | 29 | 39 | 34 | 18 | 8 | 0 | 0 | -9 | 5 | 23 | 15 | 48 |
| Below Normal (17%) | 52 | 55 | 39 | 30 | 15 | 12 | 11 | 9 | 5 | 15 | 26 | 32 |
| Dry (22%) | 29 | 27 | 20 | 17 | 11 | 12 | 12 | 3 | 9 | 16 | 25 | 20 |
| Critical (15%) | 36 | 37 | 30 | 24 | 20 | 25 | 24 | 22 | 3 | 0 | 5 | -2 |

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Alternative 4 H2 represents the enhanced spring delta outflow scenario of Alternative 4.

Table C-4-19. Folsom Lake, End of Month Storage

No Action Alternative (LLT)

| Statistic | End of Month Storage (TAF) | | | | | | | | | | | |
|-------------------------------------|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 548 | 494 | 575 | 575 | 575 | 672 | 800 | 975 | 975 | 798 | 718 | 575 |
| 20% | 473 | 424 | 546 | 572 | 570 | 667 | 800 | 975 | 961 | 716 | 620 | 526 |
| 30% | 415 | 399 | 492 | 561 | 562 | 660 | 800 | 975 | 878 | 618 | 547 | 469 |
| 40% | 380 | 376 | 429 | 529 | 555 | 649 | 800 | 970 | 822 | 581 | 491 | 419 |
| 50% | 348 | 351 | 389 | 457 | 518 | 629 | 800 | 917 | 770 | 527 | 428 | 385 |
| 60% | 319 | 330 | 346 | 412 | 474 | 611 | 797 | 835 | 692 | 443 | 396 | 353 |
| 70% | 292 | 299 | 306 | 347 | 417 | 570 | 686 | 706 | 601 | 372 | 332 | 317 |
| 80% | 243 | 259 | 255 | 313 | 360 | 502 | 605 | 585 | 443 | 322 | 285 | 259 |
| 90% | 92 | 115 | 212 | 233 | 330 | 402 | 431 | 463 | 410 | 180 | 90 | 91 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period ^a | 354 | 341 | 388 | 431 | 469 | 580 | 697 | 791 | 712 | 509 | 439 | 379 |
| Water Year Types^b | | | | | | | | | | | | |
| Wet (32%) | 400 | 401 | 500 | 515 | 505 | 635 | 789 | 943 | 902 | 705 | 623 | 485 |
| Above Normal (15%) | 341 | 311 | 358 | 489 | 516 | 648 | 795 | 930 | 825 | 547 | 483 | 430 |
| Below Normal (17%) | 352 | 338 | 354 | 438 | 522 | 624 | 776 | 891 | 788 | 543 | 451 | 423 |
| Dry (22%) | 339 | 336 | 371 | 386 | 471 | 579 | 665 | 691 | 560 | 376 | 319 | 306 |
| Critical (15%) | 291 | 253 | 245 | 249 | 278 | 345 | 359 | 360 | 324 | 210 | 165 | 159 |

Alternative 4 H3 (LLT)

| Statistic | End of Month Storage (TAF) | | | | | | | | | | | |
|-------------------------------------|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 555 | 512 | 575 | 575 | 575 | 670 | 800 | 975 | 975 | 764 | 677 | 558 |
| 20% | 444 | 431 | 549 | 573 | 574 | 667 | 800 | 975 | 886 | 678 | 584 | 503 |
| 30% | 422 | 400 | 500 | 563 | 563 | 659 | 800 | 975 | 839 | 581 | 520 | 464 |
| 40% | 377 | 380 | 430 | 541 | 556 | 649 | 800 | 937 | 753 | 542 | 474 | 447 |
| 50% | 345 | 345 | 382 | 437 | 523 | 632 | 800 | 873 | 691 | 476 | 437 | 389 |
| 60% | 323 | 313 | 341 | 395 | 430 | 617 | 769 | 781 | 640 | 411 | 379 | 349 |
| 70% | 287 | 297 | 302 | 359 | 404 | 561 | 681 | 677 | 557 | 361 | 319 | 313 |
| 80% | 220 | 243 | 257 | 298 | 362 | 509 | 588 | 561 | 412 | 329 | 275 | 236 |
| 90% | 90 | 100 | 188 | 206 | 283 | 383 | 401 | 411 | 331 | 157 | 90 | 90 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period ^a | 345 | 337 | 385 | 428 | 463 | 577 | 693 | 774 | 666 | 475 | 417 | 371 |
| Water Year Types^b | | | | | | | | | | | | |
| Wet (32%) | 390 | 396 | 500 | 515 | 505 | 635 | 789 | 938 | 856 | 669 | 587 | 485 |
| Above Normal (15%) | 335 | 313 | 361 | 495 | 518 | 648 | 795 | 913 | 775 | 508 | 443 | 405 |
| Below Normal (17%) | 345 | 339 | 351 | 438 | 523 | 622 | 775 | 864 | 724 | 488 | 431 | 417 |
| Dry (22%) | 330 | 322 | 357 | 378 | 455 | 571 | 657 | 662 | 519 | 358 | 318 | 302 |
| Critical (15%) | 281 | 251 | 239 | 233 | 262 | 332 | 346 | 346 | 299 | 182 | 152 | 143 |

Alternative 4 H3 (LLT) minus No Action Alternative (LLT)

| Statistic | End of Month Storage (TAF) | | | | | | | | | | | |
|-------------------------------------|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 7 | 18 | 0 | 0 | 0 | -2 | 0 | 0 | 0 | -34 | -41 | -17 |
| 20% | -28 | 7 | 3 | 1 | 4 | 0 | 0 | 0 | -75 | -38 | -37 | -23 |
| 30% | 7 | 1 | 8 | 2 | 1 | -1 | 0 | 0 | -39 | -37 | -27 | -4 |
| 40% | -3 | 4 | 1 | 12 | 1 | 0 | 0 | -33 | -69 | -39 | -17 | 28 |
| 50% | -4 | -6 | -7 | -20 | 5 | 3 | 0 | -44 | -78 | -51 | 9 | 3 |
| 60% | 5 | -17 | -5 | -17 | -44 | 5 | -27 | -54 | -52 | -32 | -17 | -4 |
| 70% | -5 | -2 | -4 | 13 | -12 | -9 | -5 | -29 | -44 | -12 | -13 | -4 |
| 80% | -23 | -15 | 2 | -15 | 2 | 7 | -17 | -24 | -30 | 7 | -10 | -23 |
| 90% | -2 | -15 | -25 | -27 | -47 | -19 | -29 | -53 | -80 | -23 | 0 | -1 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period ^a | -9 | -4 | -4 | -3 | -5 | -4 | -4 | -17 | -46 | -35 | -22 | -8 |
| Water Year Types^b | | | | | | | | | | | | |
| Wet (32%) | -11 | -5 | 0 | 0 | 0 | 0 | 0 | -5 | -46 | -36 | -35 | 0 |
| Above Normal (15%) | -6 | 2 | 3 | 6 | 1 | 0 | 0 | -16 | -50 | -38 | -39 | -25 |
| Below Normal (17%) | -7 | 1 | -3 | 0 | 1 | -2 | -1 | -26 | -64 | -55 | -20 | -6 |
| Dry (22%) | -10 | -14 | -13 | -8 | -15 | -8 | -8 | -29 | -42 | -18 | -1 | -4 |
| Critical (15%) | -10 | -2 | -6 | -15 | -16 | -12 | -13 | -14 | -26 | -28 | -13 | -16 |

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Alternative 4 H3 represents the fall X2 scenario of Alternative 4.

Table C-4-20. Folsom Lake, End of Month Storage

No Action Alternative (LLT)

| Statistic | End of Month Storage (TAF) | | | | | | | | | | | |
|-------------------------------------|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 548 | 494 | 575 | 575 | 575 | 672 | 800 | 975 | 975 | 798 | 718 | 575 |
| 20% | 473 | 424 | 546 | 572 | 570 | 667 | 800 | 975 | 961 | 716 | 620 | 526 |
| 30% | 415 | 399 | 492 | 561 | 562 | 660 | 800 | 975 | 878 | 618 | 547 | 469 |
| 40% | 380 | 376 | 429 | 529 | 555 | 649 | 800 | 970 | 822 | 581 | 491 | 419 |
| 50% | 348 | 351 | 389 | 457 | 518 | 629 | 800 | 917 | 770 | 527 | 428 | 385 |
| 60% | 319 | 330 | 346 | 412 | 474 | 611 | 797 | 835 | 692 | 443 | 396 | 353 |
| 70% | 292 | 299 | 306 | 347 | 417 | 570 | 686 | 706 | 601 | 372 | 332 | 317 |
| 80% | 243 | 259 | 255 | 313 | 360 | 502 | 605 | 585 | 443 | 322 | 285 | 259 |
| 90% | 92 | 115 | 212 | 233 | 330 | 402 | 431 | 463 | 410 | 180 | 90 | 91 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period ^a | 354 | 341 | 388 | 431 | 469 | 580 | 697 | 791 | 712 | 509 | 439 | 379 |
| Water Year Types^b | | | | | | | | | | | | |
| Wet (32%) | 400 | 401 | 500 | 515 | 505 | 635 | 789 | 943 | 902 | 705 | 623 | 485 |
| Above Normal (15%) | 341 | 311 | 358 | 489 | 516 | 648 | 795 | 930 | 825 | 547 | 483 | 430 |
| Below Normal (17%) | 352 | 338 | 354 | 438 | 522 | 624 | 776 | 891 | 788 | 543 | 451 | 423 |
| Dry (22%) | 339 | 336 | 371 | 386 | 471 | 579 | 665 | 691 | 560 | 376 | 319 | 306 |
| Critical (15%) | 291 | 253 | 245 | 249 | 278 | 345 | 359 | 360 | 324 | 210 | 165 | 159 |

Alternative 4 H4 (LLT)

| Statistic | End of Month Storage (TAF) | | | | | | | | | | | |
|-------------------------------------|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 575 | 517 | 575 | 575 | 575 | 672 | 800 | 975 | 975 | 787 | 683 | 574 |
| 20% | 474 | 447 | 564 | 572 | 574 | 667 | 800 | 975 | 971 | 702 | 604 | 514 |
| 30% | 431 | 404 | 502 | 561 | 563 | 662 | 800 | 975 | 877 | 650 | 546 | 472 |
| 40% | 386 | 381 | 446 | 541 | 556 | 652 | 800 | 973 | 824 | 593 | 512 | 423 |
| 50% | 366 | 364 | 389 | 449 | 523 | 634 | 800 | 914 | 742 | 540 | 459 | 396 |
| 60% | 322 | 333 | 349 | 414 | 456 | 618 | 787 | 788 | 692 | 454 | 387 | 356 |
| 70% | 310 | 303 | 297 | 361 | 411 | 578 | 691 | 716 | 607 | 376 | 335 | 331 |
| 80% | 246 | 268 | 266 | 317 | 381 | 519 | 608 | 575 | 470 | 336 | 309 | 235 |
| 90% | 128 | 129 | 221 | 253 | 344 | 411 | 419 | 444 | 380 | 216 | 128 | 136 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period ^a | 360 | 351 | 394 | 436 | 471 | 584 | 701 | 792 | 706 | 515 | 441 | 380 |
| Water Year Types^b | | | | | | | | | | | | |
| Wet (32%) | 402 | 406 | 497 | 515 | 505 | 635 | 789 | 942 | 889 | 695 | 606 | 468 |
| Above Normal (15%) | 331 | 313 | 363 | 490 | 514 | 648 | 795 | 924 | 829 | 568 | 488 | 436 |
| Below Normal (17%) | 362 | 355 | 366 | 449 | 527 | 629 | 780 | 896 | 790 | 559 | 474 | 450 |
| Dry (22%) | 352 | 342 | 374 | 392 | 472 | 584 | 673 | 688 | 560 | 393 | 337 | 314 |
| Critical (15%) | 305 | 275 | 262 | 261 | 286 | 356 | 370 | 369 | 307 | 205 | 157 | 148 |

Alternative 4 H4 (LLT) minus No Action Alternative (LLT)

| Statistic | End of Month Storage (TAF) | | | | | | | | | | | |
|-------------------------------------|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 27 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -11 | -35 | -1 |
| 20% | 1 | 23 | 18 | 0 | 4 | 0 | 0 | 0 | 9 | -14 | -16 | -12 |
| 30% | 17 | 4 | 10 | 0 | 0 | 2 | 0 | 0 | -1 | 32 | -1 | 4 |
| 40% | 6 | 5 | 17 | 11 | 1 | 3 | 0 | 3 | 2 | 11 | 21 | 4 |
| 50% | 18 | 13 | -1 | -8 | 5 | 6 | 0 | -3 | -27 | 13 | 31 | 11 |
| 60% | 3 | 4 | 3 | 2 | -18 | 7 | -10 | -47 | -1 | 11 | -8 | 2 |
| 70% | 18 | 5 | -9 | 15 | -6 | 8 | 5 | 10 | 6 | 4 | 3 | 15 |
| 80% | 4 | 9 | 11 | 3 | 21 | 17 | 4 | -11 | 28 | 14 | 24 | -23 |
| 90% | 36 | 14 | 9 | 20 | 14 | 9 | -12 | -19 | -30 | 36 | 37 | 44 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period ^a | 6 | 10 | 5 | 5 | 2 | 4 | 4 | 1 | -6 | 6 | 2 | 1 |
| Water Year Types^b | | | | | | | | | | | | |
| Wet (32%) | 1 | 6 | -3 | 0 | 0 | 0 | 0 | -1 | -13 | -9 | -17 | -16 |
| Above Normal (15%) | -10 | 3 | 5 | 1 | -2 | 0 | 0 | -6 | 3 | 21 | 5 | 6 |
| Below Normal (17%) | 10 | 17 | 13 | 11 | 5 | 5 | 4 | 5 | 1 | 16 | 22 | 28 |
| Dry (22%) | 13 | 6 | 4 | 6 | 1 | 5 | 8 | -3 | 0 | 17 | 17 | 8 |
| Critical (15%) | 15 | 22 | 17 | 13 | 7 | 11 | 10 | 10 | -17 | -5 | -8 | -11 |

Note: "LLT" (Late Long-Term) indicates Alternatives that are simulated with 2060 climate change and sea level rise.

a Based on the 82-year simulation period

b As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Alternative 4 H4 represents the high delta outflow scenario of Alternative 4.