

## **Appendix 5B1 – Project Operations (CalSim II)**

The following results of the CalSim II model are included for project operations at key project locations for the following alternatives:

- No Action Alternative 011221
- Alternative 1A 011221
- Alternative 1B 011221
- Alternative 2 011221
- Alternative 3 020121

| <b>Section</b>     | <b>Output Parameters</b>                        | <b>Table Numbers</b> | <b>Figure Numbers</b> |
|--------------------|---|----------------------|-----------------------|
| Project Operations | Red Bluff Diversion - Tehama<br>Colusa Canal    | 5B1-1-1a to 5B1-1-4c | 5B1-1-1 to 5B1-1-18   |
| Project Operations | Hamilton City Diversion - Glenn<br>Colusa Canal | 5B1-2-1a to 5B1-2-4c | 5B1-2-1 to 5B1-2-18   |
| Project Operations | Total Sites Diversions                          | 5B1-3-1a to 5B1-3-4c | 5B1-3-1 to 5B1-3-18   |
| Project Operations | Sites Release to Dunnigan Pipeline              | 5B1-4-1a to 5B1-4-4c | 5B1-4-1 to 5B1-4-18   |
| Project Operations | Sites Release to Yolo Bypass                    | 5B1-5-1a to 5B1-5-4c | 5B1-5-1 to 5B1-5-18   |
| Project Operations | Total Sites Release                             | 5B1-6-1a to 5B1-6-4c | 5B1-6-1 to 5B1-6-18   |
| Project Operations | Sites Reservoir Storage                         | 5B1-7-1a to 5B1-7-4c | 5B1-7-1 to 5B1-7-12   |
| Project Operations | Sites Reservoir Elevation                       | 5B1-8-1a to 5B1-8-4c | 5B1-8-1 to 5B1-8-12   |
| Project Operations | Sites Reservoir Surface Area                    | 5B1-9-1a to 5B1-9-4c | 5B1-9-1 to 5B1-9-12   |

#### Report formats

- Monthly tables comparing an alternative against the No Action alternative (exceedance values, long-term average, and average by water year type)
- Monthly pattern charts (long-term average and average by water year type) including all alternatives
- Monthly exceedance charts (all months) including all alternatives

**Table 5B1-1-1a. Red Bluff Diversion - Tehama Colusa Canal, No Action Alternative 011221, Monthly Diversion (cfs)**

| Statistic                             | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun   | Jul   | Aug   | Sep |
|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|-----|
| <b>Probability of Exceedance</b>      |     |     |     |     |     |     |     |     |       |       |       |     |
| 10%                                   | 214 | 20  | 0   | 0   | 0   | 61  | 457 | 867 | 1,206 | 1,378 | 1,095 | 303 |
| 20%                                   | 197 | 17  | 0   | 0   | 0   | 37  | 373 | 782 | 1,164 | 1,356 | 1,080 | 287 |
| 30%                                   | 174 | 17  | 0   | 0   | 0   | 17  | 334 | 740 | 1,118 | 1,283 | 1,024 | 272 |
| 40%                                   | 133 | 17  | 0   | 0   | 0   | 9   | 244 | 674 | 1,090 | 1,272 | 1,000 | 255 |
| 50%                                   | 100 | 13  | 0   | 0   | 0   | 8   | 162 | 559 | 1,057 | 1,216 | 928   | 226 |
| 60%                                   | 87  | 9   | 0   | 0   | 0   | 8   | 132 | 489 | 989   | 1,139 | 863   | 197 |
| 70%                                   | 73  | 8   | 0   | 0   | 0   | 8   | 43  | 399 | 632   | 733   | 579   | 99  |
| 80%                                   | 62  | 8   | 0   | 0   | 0   | 8   | 34  | 253 | 488   | 542   | 433   | 54  |
| 90%                                   | 54  | 8   | 0   | 0   | 0   | 8   | 7   | 62  | 209   | 230   | 183   | 22  |
| <b>Long Term</b>                      |     |     |     |     |     |     |     |     |       |       |       |     |
| Full Simulation Period <sup>a</sup>   | 124 | 14  | 0   | 0   | 2   | 25  | 206 | 532 | 848   | 974   | 769   | 188 |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |     |     |     |     |     |     |       |       |       |     |
| Wet (32%)                             | 154 | 15  | 0   | 0   | 0   | 20  | 184 | 668 | 1,121 | 1,289 | 1,020 | 261 |
| Above Normal (15%)                    | 128 | 13  | 0   | 0   | 0   | 17  | 290 | 702 | 1,157 | 1,314 | 1,028 | 249 |
| Below Normal (17%)                    | 126 | 14  | 0   | 0   | 2   | 42  | 278 | 632 | 937   | 1,097 | 864   | 177 |
| Dry (22%)                             | 113 | 12  | 0   | 0   | 5   | 24  | 201 | 414 | 633   | 718   | 570   | 140 |
| Critical (15%)                        | 69  | 17  | 0   | 0   | 7   | 25  | 96  | 128 | 169   | 195   | 153   | 55  |

**Table 5B1-1-1b. Red Bluff Diversion - Tehama Colusa Canal, Alternative 1A 011221, Monthly Diversion (cfs)**

| Statistic                             | Oct | Nov | Dec   | Jan   | Feb   | Mar   | Apr | May | Jun   | Jul   | Aug   | Sep |
|---------------------------------------|-----|-----|-------|-------|-------|-------|-----|-----|-------|-------|-------|-----|
| <b>Probability of Exceedance</b>      |     |     |       |       |       |       |     |     |       |       |       |     |
| 10%                                   | 209 | 469 | 1,115 | 2,121 | 2,121 | 2,121 | 691 | 895 | 1,228 | 1,336 | 1,094 | 301 |
| 20%                                   | 182 | 32  | 0     | 1,747 | 2,121 | 2,121 | 450 | 815 | 1,179 | 1,282 | 1,045 | 280 |
| 30%                                   | 140 | 20  | 0     | 1,034 | 1,312 | 2,121 | 365 | 748 | 1,138 | 1,249 | 1,017 | 265 |
| 40%                                   | 102 | 17  | 0     | 604   | 893   | 1,617 | 295 | 695 | 1,097 | 1,204 | 972   | 232 |
| 50%                                   | 82  | 17  | 0     | 449   | 565   | 115   | 195 | 570 | 1,059 | 1,168 | 919   | 144 |
| 60%                                   | 66  | 17  | 0     | 121   | 280   | 61    | 141 | 502 | 982   | 1,077 | 821   | 90  |
| 70%                                   | 59  | 9   | 0     | 0     | 21    | 29    | 60  | 408 | 633   | 722   | 548   | 50  |
| 80%                                   | 54  | 8   | 0     | 0     | 0     | 11    | 37  | 266 | 488   | 471   | 370   | 28  |
| 90%                                   | 52  | 8   | 0     | 0     | 0     | 8     | 18  | 64  | 207   | 231   | 158   | 15  |
| <b>Long Term</b>                      |     |     |       |       |       |       |     |     |       |       |       |     |
| Full Simulation Period <sup>a</sup>   | 108 | 158 | 232   | 734   | 833   | 963   | 357 | 579 | 893   | 948   | 760   | 160 |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |       |       |       |       |     |     |       |       |       |     |
| Wet (32%)                             | 155 | 356 | 37    | 1,065 | 1,052 | 824   | 566 | 802 | 1,166 | 1,310 | 1,064 | 261 |
| Above Normal (15%)                    | 128 | 223 | 128   | 1,251 | 1,209 | 1,530 | 425 | 692 | 1,251 | 1,214 | 1,021 | 246 |
| Below Normal (17%)                    | 86  | 14  | 344   | 588   | 1,026 | 1,263 | 349 | 642 | 1,021 | 1,048 | 804   | 118 |
| Dry (22%)                             | 76  | 32  | 338   | 324   | 563   | 948   | 193 | 432 | 649   | 682   | 531   | 76  |
| Critical (15%)                        | 57  | 17  | 465   | 283   | 160   | 367   | 90  | 128 | 162   | 181   | 130   | 30  |

**Table 5B1-1-1c. Red Bluff Diversion - Tehama Colusa Canal, Alternative 1A 011221 minus No Action Alternative 011221, Monthly Diversion (cfs)**

| Statistic                             | Oct | Nov | Dec   | Jan   | Feb   | Mar   | Apr | May | Jun | Jul  | Aug | Sep  |
|---------------------------------------|-----|-----|-------|-------|-------|-------|-----|-----|-----|------|-----|------|
| <b>Probability of Exceedance</b>      |     |     |       |       |       |       |     |     |     |      |     |      |
| 10%                                   | -4  | 449 | 1,115 | 2,121 | 2,121 | 2,061 | 234 | 28  | 22  | -41  | -1  | -2   |
| 20%                                   | -15 | 15  | 0     | 1,747 | 2,121 | 2,084 | 77  | 33  | 15  | -74  | -36 | -7   |
| 30%                                   | -34 | 3   | 0     | 1,034 | 1,312 | 2,104 | 32  | 7   | 21  | -34  | -6  | -7   |
| 40%                                   | -31 | 0   | 0     | 604   | 893   | 1,608 | 51  | 21  | 7   | -68  | -28 | -23  |
| 50%                                   | -18 | 4   | 0     | 449   | 565   | 107   | 33  | 11  | 2   | -49  | -10 | -82  |
| 60%                                   | -20 | 8   | 0     | 121   | 280   | 53    | 9   | 13  | -7  | -62  | -42 | -108 |
| 70%                                   | -14 | 1   | 0     | 0     | 21    | 21    | 17  | 9   | 1   | -11  | -31 | -50  |
| 80%                                   | -8  | 0   | 0     | 0     | 0     | 2     | 3   | 13  | 0   | -71  | -63 | -26  |
| 90%                                   | -2  | 0   | 0     | 0     | 0     | 0     | 11  | 2   | -3  | 1    | -25 | -7   |
| <b>Long Term</b>                      |     |     |       |       |       |       |     |     |     |      |     |      |
| Full Simulation Period <sup>a</sup>   | -16 | 143 | 232   | 734   | 830   | 938   | 151 | 47  | 45  | -26  | -9  | -28  |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |       |       |       |       |     |     |     |      |     |      |
| Wet (32%)                             | 1   | 341 | 37    | 1,065 | 1,052 | 804   | 382 | 134 | 45  | 21   | 44  | 0    |
| Above Normal (15%)                    | 0   | 210 | 128   | 1,251 | 1,209 | 1,513 | 135 | -10 | 95  | -100 | -7  | -4   |
| Below Normal (17%)                    | -40 | 0   | 344   | 588   | 1,024 | 1,220 | 70  | 11  | 84  | -49  | -59 | -59  |
| Dry (22%)                             | -37 | 20  | 338   | 324   | 559   | 924   | -7  | 17  | 16  | -35  | -39 | -64  |
| Critical (15%)                        | -12 | 1   | 465   | 283   | 153   | 342   | -6  | 0   | -7  | -13  | -23 | -25  |

a Based on the 82-year simulation period.

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

c These results are displayed with calendar year - year type sorting.

**Table 5B1-1-2a. Red Bluff Diversion - Tehama Colusa Canal, No Action Alternative 011221, Monthly Diversion (cfs)**

| Statistic                             | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun   | Jul   | Aug   | Sep |
|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|-----|
| <b>Probability of Exceedance</b>      |     |     |     |     |     |     |     |     |       |       |       |     |
| 10%                                   | 214 | 20  | 0   | 0   | 0   | 61  | 457 | 867 | 1,206 | 1,378 | 1,095 | 303 |
| 20%                                   | 197 | 17  | 0   | 0   | 0   | 37  | 373 | 782 | 1,164 | 1,356 | 1,080 | 287 |
| 30%                                   | 174 | 17  | 0   | 0   | 0   | 17  | 334 | 740 | 1,118 | 1,283 | 1,024 | 272 |
| 40%                                   | 133 | 17  | 0   | 0   | 0   | 9   | 244 | 674 | 1,090 | 1,272 | 1,000 | 255 |
| 50%                                   | 100 | 13  | 0   | 0   | 0   | 8   | 162 | 559 | 1,057 | 1,216 | 928   | 226 |
| 60%                                   | 87  | 9   | 0   | 0   | 0   | 8   | 132 | 489 | 989   | 1,139 | 863   | 197 |
| 70%                                   | 73  | 8   | 0   | 0   | 0   | 8   | 43  | 399 | 632   | 733   | 579   | 99  |
| 80%                                   | 62  | 8   | 0   | 0   | 0   | 8   | 34  | 253 | 488   | 542   | 433   | 54  |
| 90%                                   | 54  | 8   | 0   | 0   | 0   | 8   | 7   | 62  | 209   | 230   | 183   | 22  |
| <b>Long Term</b>                      |     |     |     |     |     |     |     |     |       |       |       |     |
| Full Simulation Period <sup>a</sup>   | 124 | 14  | 0   | 0   | 2   | 25  | 206 | 532 | 848   | 974   | 769   | 188 |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |     |     |     |     |     |     |       |       |       |     |
| Wet (32%)                             | 154 | 15  | 0   | 0   | 0   | 20  | 184 | 668 | 1,121 | 1,289 | 1,020 | 261 |
| Above Normal (15%)                    | 128 | 13  | 0   | 0   | 0   | 17  | 290 | 702 | 1,157 | 1,314 | 1,028 | 249 |
| Below Normal (17%)                    | 126 | 14  | 0   | 0   | 2   | 42  | 278 | 632 | 937   | 1,097 | 864   | 177 |
| Dry (22%)                             | 113 | 12  | 0   | 0   | 5   | 24  | 201 | 414 | 633   | 718   | 570   | 140 |
| Critical (15%)                        | 69  | 17  | 0   | 0   | 7   | 25  | 96  | 128 | 169   | 195   | 153   | 55  |

**Table 5B1-1-2b. Red Bluff Diversion - Tehama Colusa Canal, Alternative 1B 011221, Monthly Diversion (cfs)**

| Statistic                             | Oct | Nov | Dec   | Jan   | Feb   | Mar   | Apr | May | Jun   | Jul   | Aug   | Sep |
|---------------------------------------|-----|-----|-------|-------|-------|-------|-----|-----|-------|-------|-------|-----|
| <b>Probability of Exceedance</b>      |     |     |       |       |       |       |     |     |       |       |       |     |
| 10%                                   | 210 | 407 | 1,113 | 2,121 | 2,121 | 2,121 | 908 | 895 | 1,220 | 1,336 | 1,095 | 301 |
| 20%                                   | 186 | 32  | 0     | 1,815 | 2,121 | 2,121 | 450 | 815 | 1,153 | 1,292 | 1,049 | 280 |
| 30%                                   | 140 | 20  | 0     | 1,140 | 1,682 | 2,121 | 365 | 733 | 1,092 | 1,273 | 1,014 | 265 |
| 40%                                   | 100 | 17  | 0     | 752   | 1,035 | 1,735 | 266 | 621 | 1,046 | 1,217 | 953   | 240 |
| 50%                                   | 82  | 17  | 0     | 498   | 574   | 219   | 167 | 515 | 901   | 1,145 | 916   | 143 |
| 60%                                   | 67  | 15  | 0     | 317   | 293   | 68    | 140 | 418 | 583   | 835   | 816   | 90  |
| 70%                                   | 59  | 9   | 0     | 0     | 24    | 31    | 63  | 330 | 525   | 596   | 556   | 50  |
| 80%                                   | 55  | 8   | 0     | 0     | 0     | 14    | 37  | 179 | 385   | 501   | 372   | 29  |
| 90%                                   | 54  | 8   | 0     | 0     | 0     | 8     | 19  | 66  | 203   | 187   | 161   | 23  |
| <b>Long Term</b>                      |     |     |       |       |       |       |     |     |       |       |       |     |
| Full Simulation Period <sup>a</sup>   | 109 | 153 | 239   | 774   | 904   | 982   | 357 | 545 | 795   | 915   | 759   | 161 |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |       |       |       |       |     |     |       |       |       |     |
| Wet (32%)                             | 155 | 340 | 37    | 1,188 | 1,179 | 850   | 597 | 862 | 1,166 | 1,310 | 1,064 | 261 |
| Above Normal (15%)                    | 124 | 229 | 200   | 1,251 | 1,346 | 1,530 | 425 | 680 | 889   | 1,002 | 997   | 250 |
| Below Normal (17%)                    | 89  | 12  | 344   | 589   | 1,080 | 1,262 | 331 | 505 | 870   | 995   | 810   | 122 |
| Dry (22%)                             | 86  | 30  | 324   | 329   | 569   | 1,001 | 163 | 334 | 563   | 727   | 543   | 77  |
| Critical (15%)                        | 51  | 18  | 465   | 283   | 160   | 368   | 88  | 91  | 156   | 165   | 127   | 30  |

**Table 5B1-1-2c. Red Bluff Diversion - Tehama Colusa Canal, Alternative 1B 011221 minus No Action Alternative 011221, Monthly Diversion (cfs)**

| Statistic                             | Oct | Nov | Dec   | Jan   | Feb   | Mar   | Apr | May  | Jun  | Jul  | Aug | Sep  |
|---------------------------------------|-----|-----|-------|-------|-------|-------|-----|------|------|------|-----|------|
| <b>Probability of Exceedance</b>      |     |     |       |       |       |       |     |      |      |      |     |      |
| 10%                                   | -4  | 386 | 1,113 | 2,121 | 2,121 | 2,061 | 451 | 28   | 14   | -41  | 0   | -2   |
| 20%                                   | -11 | 15  | 0     | 1,815 | 2,121 | 2,084 | 77  | 33   | -11  | -64  | -31 | -7   |
| 30%                                   | -34 | 3   | 0     | 1,140 | 1,682 | 2,104 | 32  | -7   | -25  | -9   | -10 | -7   |
| 40%                                   | -34 | 0   | 0     | 752   | 1,035 | 1,726 | 23  | -53  | -44  | -55  | -47 | -15  |
| 50%                                   | -17 | 4   | 0     | 498   | 574   | 211   | 5   | -44  | -157 | -71  | -13 | -83  |
| 60%                                   | -19 | 6   | 0     | 317   | 293   | 60    | 8   | -71  | -406 | -304 | -47 | -108 |
| 70%                                   | -13 | 1   | 0     | 0     | 24    | 23    | 20  | -69  | -107 | -136 | -23 | -50  |
| 80%                                   | -7  | 0   | 0     | 0     | 0     | 6     | 3   | -74  | -103 | -42  | -61 | -25  |
| 90%                                   | 0   | 0   | 0     | 0     | 0     | 0     | 12  | 3    | -7   | -43  | -22 | 1    |
| <b>Long Term</b>                      |     |     |       |       |       |       |     |      |      |      |     |      |
| Full Simulation Period <sup>a</sup>   | -15 | 139 | 239   | 774   | 901   | 957   | 151 | 13   | -54  | -59  | -9  | -27  |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |       |       |       |       |     |      |      |      |     |      |
| Wet (32%)                             | 1   | 325 | 37    | 1,188 | 1,179 | 829   | 414 | 194  | 45   | 21   | 45  | 0    |
| Above Normal (15%)                    | -4  | 216 | 200   | 1,251 | 1,346 | 1,513 | 135 | -22  | -267 | -312 | -31 | 1    |
| Below Normal (17%)                    | -37 | -1  | 344   | 589   | 1,078 | 1,220 | 52  | -126 | -67  | -102 | -54 | -55  |
| Dry (22%)                             | -27 | 19  | 324   | 329   | 565   | 976   | -38 | -81  | -70  | 9    | -27 | -63  |
| Critical (15%)                        | -18 | 2   | 465   | 283   | 153   | 343   | -7  | -37  | -13  | -30  | -26 | -25  |

a Based on the 82-year simulation period.

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

c These results are displayed with calendar year - year type sorting.

**Table 5B1-1-3a. Red Bluff Diversion - Tehama Colusa Canal, No Action Alternative 011221, Monthly Diversion (cfs)**

| Statistic                             | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun   | Jul   | Aug   | Sep |
|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|-----|
| <b>Probability of Exceedance</b>      |     |     |     |     |     |     |     |     |       |       |       |     |
| 10%                                   | 214 | 20  | 0   | 0   | 0   | 61  | 457 | 867 | 1,206 | 1,378 | 1,095 | 303 |
| 20%                                   | 197 | 17  | 0   | 0   | 0   | 37  | 373 | 782 | 1,164 | 1,356 | 1,080 | 287 |
| 30%                                   | 174 | 17  | 0   | 0   | 0   | 17  | 334 | 740 | 1,118 | 1,283 | 1,024 | 272 |
| 40%                                   | 133 | 17  | 0   | 0   | 0   | 9   | 244 | 674 | 1,090 | 1,272 | 1,000 | 255 |
| 50%                                   | 100 | 13  | 0   | 0   | 0   | 8   | 162 | 559 | 1,057 | 1,216 | 928   | 226 |
| 60%                                   | 87  | 9   | 0   | 0   | 0   | 8   | 132 | 489 | 989   | 1,139 | 863   | 197 |
| 70%                                   | 73  | 8   | 0   | 0   | 0   | 8   | 43  | 399 | 632   | 733   | 579   | 99  |
| 80%                                   | 62  | 8   | 0   | 0   | 0   | 8   | 34  | 253 | 488   | 542   | 433   | 54  |
| 90%                                   | 54  | 8   | 0   | 0   | 0   | 8   | 7   | 62  | 209   | 230   | 183   | 22  |
| <b>Long Term</b>                      |     |     |     |     |     |     |     |     |       |       |       |     |
| Full Simulation Period <sup>a</sup>   | 124 | 14  | 0   | 0   | 2   | 25  | 206 | 532 | 848   | 974   | 769   | 188 |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |     |     |     |     |     |     |       |       |       |     |
| Wet (32%)                             | 154 | 15  | 0   | 0   | 0   | 20  | 184 | 668 | 1,121 | 1,289 | 1,020 | 261 |
| Above Normal (15%)                    | 128 | 13  | 0   | 0   | 0   | 17  | 290 | 702 | 1,157 | 1,314 | 1,028 | 249 |
| Below Normal (17%)                    | 126 | 14  | 0   | 0   | 2   | 42  | 278 | 632 | 937   | 1,097 | 864   | 177 |
| Dry (22%)                             | 113 | 12  | 0   | 0   | 5   | 24  | 201 | 414 | 633   | 718   | 570   | 140 |
| Critical (15%)                        | 69  | 17  | 0   | 0   | 7   | 25  | 96  | 128 | 169   | 195   | 153   | 55  |

**Table 5B1-1-3b. Red Bluff Diversion - Tehama Colusa Canal, Alternative 2 011221, Monthly Diversion (cfs)**

| Statistic                             | Oct | Nov | Dec   | Jan   | Feb   | Mar   | Apr | May | Jun   | Jul   | Aug   | Sep |
|---------------------------------------|-----|-----|-------|-------|-------|-------|-----|-----|-------|-------|-------|-----|
| <b>Probability of Exceedance</b>      |     |     |       |       |       |       |     |     |       |       |       |     |
| 10%                                   | 209 | 546 | 1,115 | 2,121 | 2,121 | 2,121 | 568 | 895 | 1,228 | 1,336 | 1,094 | 301 |
| 20%                                   | 182 | 33  | 0     | 1,594 | 2,121 | 2,121 | 428 | 815 | 1,179 | 1,278 | 1,047 | 280 |
| 30%                                   | 135 | 23  | 0     | 1,035 | 1,195 | 2,109 | 345 | 748 | 1,138 | 1,246 | 1,017 | 269 |
| 40%                                   | 97  | 17  | 0     | 599   | 839   | 1,325 | 292 | 695 | 1,097 | 1,199 | 967   | 232 |
| 50%                                   | 80  | 17  | 0     | 460   | 542   | 105   | 195 | 570 | 1,059 | 1,153 | 919   | 135 |
| 60%                                   | 66  | 17  | 0     | 86    | 269   | 61    | 141 | 502 | 982   | 1,076 | 834   | 88  |
| 70%                                   | 58  | 10  | 0     | 0     | 11    | 29    | 67  | 408 | 624   | 726   | 541   | 48  |
| 80%                                   | 54  | 8   | 0     | 0     | 0     | 11    | 37  | 266 | 488   | 471   | 370   | 28  |
| 90%                                   | 47  | 8   | 0     | 0     | 0     | 8     | 18  | 64  | 208   | 231   | 118   | 15  |
| <b>Long Term</b>                      |     |     |       |       |       |       |     |     |       |       |       |     |
| Full Simulation Period <sup>a</sup>   | 106 | 168 | 232   | 721   | 806   | 910   | 336 | 579 | 893   | 944   | 747   | 159 |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |       |       |       |       |     |     |       |       |       |     |
| Wet (32%)                             | 155 | 353 | 37    | 1,026 | 971   | 695   | 501 | 802 | 1,166 | 1,310 | 1,028 | 261 |
| Above Normal (15%)                    | 128 | 218 | 129   | 1,250 | 1,206 | 1,530 | 425 | 692 | 1,250 | 1,204 | 1,021 | 248 |
| Below Normal (17%)                    | 84  | 82  | 344   | 588   | 1,023 | 1,263 | 349 | 643 | 1,021 | 1,038 | 804   | 116 |
| Dry (22%)                             | 72  | 32  | 337   | 324   | 563   | 894   | 193 | 432 | 649   | 680   | 530   | 74  |
| Critical (15%)                        | 53  | 18  | 466   | 283   | 160   | 368   | 90  | 128 | 162   | 180   | 123   | 27  |

**Table 5B1-1-3c. Red Bluff Diversion - Tehama Colusa Canal, Alternative 2 011221 minus No Action Alternative 011221, Monthly Diversion (cfs)**

| Statistic                             | Oct | Nov | Dec   | Jan   | Feb   | Mar   | Apr | May | Jun | Jul  | Aug | Sep  |
|---------------------------------------|-----|-----|-------|-------|-------|-------|-----|-----|-----|------|-----|------|
| <b>Probability of Exceedance</b>      |     |     |       |       |       |       |     |     |     |      |     |      |
| 10%                                   | -4  | 526 | 1,115 | 2,121 | 2,121 | 2,061 | 111 | 28  | 22  | -41  | -1  | -2   |
| 20%                                   | -15 | 16  | 0     | 1,594 | 2,121 | 2,084 | 55  | 33  | 15  | -78  | -34 | -7   |
| 30%                                   | -40 | 6   | 0     | 1,035 | 1,195 | 2,092 | 12  | 7   | 21  | -36  | -6  | -3   |
| 40%                                   | -36 | 0   | 0     | 599   | 839   | 1,316 | 48  | 21  | 7   | -73  | -33 | -23  |
| 50%                                   | -20 | 4   | 0     | 460   | 542   | 97    | 33  | 11  | 2   | -63  | -10 | -91  |
| 60%                                   | -20 | 8   | 0     | 86    | 269   | 53    | 9   | 13  | -7  | -63  | -28 | -109 |
| 70%                                   | -14 | 2   | 0     | 0     | 11    | 21    | 24  | 9   | -8  | -7   | -38 | -52  |
| 80%                                   | -8  | 0   | 0     | 0     | 0     | 2     | 3   | 13  | 0   | -71  | -63 | -26  |
| 90%                                   | -7  | 0   | 0     | 0     | 0     | 0     | 11  | 2   | -2  | 1    | -66 | -7   |
| <b>Long Term</b>                      |     |     |       |       |       |       |     |     |     |      |     |      |
| Full Simulation Period <sup>a</sup>   | -18 | 153 | 232   | 721   | 804   | 885   | 130 | 47  | 45  | -30  | -22 | -29  |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |       |       |       |       |     |     |     |      |     |      |
| Wet (32%)                             | 1   | 338 | 37    | 1,026 | 971   | 675   | 318 | 134 | 45  | 21   | 9   | 0    |
| Above Normal (15%)                    | 0   | 205 | 129   | 1,250 | 1,206 | 1,513 | 135 | -10 | 94  | -109 | -7  | -2   |
| Below Normal (17%)                    | -42 | 68  | 344   | 588   | 1,021 | 1,221 | 70  | 11  | 84  | -59  | -60 | -61  |
| Dry (22%)                             | -41 | 20  | 337   | 324   | 559   | 869   | -7  | 18  | 16  | -38  | -40 | -66  |
| Critical (15%)                        | -16 | 2   | 466   | 283   | 153   | 343   | -5  | 0   | -7  | -14  | -29 | -29  |

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).

c These results are displayed with calendar year - year type sorting.

**Table 5B1-1-4a. Red Bluff Diversion - Tehama Colusa Canal, No Action Alternative 011221, Monthly Diversion (cfs)**

| Statistic                             | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun   | Jul   | Aug   | Sep |
|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|-----|
| <b>Probability of Exceedance</b>      |     |     |     |     |     |     |     |     |       |       |       |     |
| 10%                                   | 214 | 20  | 0   | 0   | 0   | 61  | 457 | 867 | 1,206 | 1,378 | 1,095 | 303 |
| 20%                                   | 197 | 17  | 0   | 0   | 0   | 37  | 373 | 782 | 1,164 | 1,356 | 1,080 | 287 |
| 30%                                   | 174 | 17  | 0   | 0   | 0   | 17  | 334 | 740 | 1,118 | 1,283 | 1,024 | 272 |
| 40%                                   | 133 | 17  | 0   | 0   | 0   | 9   | 244 | 674 | 1,090 | 1,272 | 1,000 | 255 |
| 50%                                   | 100 | 13  | 0   | 0   | 0   | 8   | 162 | 559 | 1,057 | 1,216 | 928   | 226 |
| 60%                                   | 87  | 9   | 0   | 0   | 0   | 8   | 132 | 489 | 989   | 1,139 | 863   | 197 |
| 70%                                   | 73  | 8   | 0   | 0   | 0   | 8   | 43  | 399 | 632   | 733   | 579   | 99  |
| 80%                                   | 62  | 8   | 0   | 0   | 0   | 8   | 34  | 253 | 488   | 542   | 433   | 54  |
| 90%                                   | 54  | 8   | 0   | 0   | 0   | 8   | 7   | 62  | 209   | 230   | 183   | 22  |
| <b>Long Term</b>                      |     |     |     |     |     |     |     |     |       |       |       |     |
| Full Simulation Period <sup>a</sup>   | 124 | 14  | 0   | 0   | 2   | 25  | 206 | 532 | 848   | 974   | 769   | 188 |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |     |     |     |     |     |     |       |       |       |     |
| Wet (32%)                             | 154 | 15  | 0   | 0   | 0   | 20  | 184 | 668 | 1,121 | 1,289 | 1,020 | 261 |
| Above Normal (15%)                    | 128 | 13  | 0   | 0   | 0   | 17  | 290 | 702 | 1,157 | 1,314 | 1,028 | 249 |
| Below Normal (17%)                    | 126 | 14  | 0   | 0   | 2   | 42  | 278 | 632 | 937   | 1,097 | 864   | 177 |
| Dry (22%)                             | 113 | 12  | 0   | 0   | 5   | 24  | 201 | 414 | 633   | 718   | 570   | 140 |
| Critical (15%)                        | 69  | 17  | 0   | 0   | 7   | 25  | 96  | 128 | 169   | 195   | 153   | 55  |

**Table 5B1-1-4b. Red Bluff Diversion - Tehama Colusa Canal, Alternative 3 020121, Monthly Diversion (cfs)**

| Statistic                             | Oct | Nov | Dec   | Jan   | Feb   | Mar   | Apr   | May | Jun   | Jul   | Aug   | Sep |
|---------------------------------------|-----|-----|-------|-------|-------|-------|-------|-----|-------|-------|-------|-----|
| <b>Probability of Exceedance</b>      |     |     |       |       |       |       |       |     |       |       |       |     |
| 10%                                   | 210 | 553 | 1,188 | 2,121 | 2,121 | 2,121 | 1,270 | 899 | 1,228 | 1,336 | 1,092 | 301 |
| 20%                                   | 186 | 107 | 345   | 1,778 | 2,121 | 2,121 | 456   | 847 | 1,156 | 1,278 | 1,030 | 280 |
| 30%                                   | 140 | 25  | 0     | 1,124 | 2,069 | 2,121 | 373   | 738 | 1,077 | 1,209 | 983   | 265 |
| 40%                                   | 113 | 19  | 0     | 744   | 1,033 | 2,040 | 266   | 621 | 925   | 1,039 | 880   | 214 |
| 50%                                   | 87  | 17  | 0     | 535   | 574   | 1,321 | 200   | 528 | 556   | 624   | 800   | 140 |
| 60%                                   | 70  | 17  | 0     | 328   | 293   | 94    | 148   | 429 | 517   | 592   | 536   | 93  |
| 70%                                   | 59  | 10  | 0     | 0     | 23    | 43    | 95    | 247 | 478   | 545   | 430   | 71  |
| 80%                                   | 54  | 8   | 0     | 0     | 0     | 15    | 39    | 173 | 283   | 304   | 387   | 46  |
| 90%                                   | 52  | 8   | 0     | 0     | 0     | 8     | 22    | 96  | 215   | 237   | 179   | 25  |
| <b>Long Term</b>                      |     |     |       |       |       |       |       |     |       |       |       |     |
| Full Simulation Period <sup>a</sup>   | 110 | 179 | 263   | 779   | 924   | 1,066 | 397   | 557 | 744   | 791   | 698   | 162 |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |       |       |       |       |       |     |       |       |       |     |
| Wet (32%)                             | 156 | 340 | 37    | 1,205 | 1,179 | 1,067 | 714   | 912 | 1,206 | 1,310 | 1,064 | 261 |
| Above Normal (15%)                    | 112 | 323 | 305   | 1,252 | 1,387 | 1,652 | 425   | 680 | 887   | 578   | 614   | 200 |
| Below Normal (17%)                    | 87  | 81  | 381   | 589   | 1,167 | 1,285 | 333   | 508 | 630   | 734   | 764   | 126 |
| Dry (22%)                             | 89  | 32  | 330   | 330   | 570   | 1,002 | 170   | 291 | 431   | 605   | 521   | 89  |
| Critical (15%)                        | 68  | 18  | 472   | 282   | 159   | 322   | 96    | 124 | 201   | 229   | 179   | 59  |

**Table 5B1-1-4c. Red Bluff Diversion - Tehama Colusa Canal, Alternative 3 020121 minus No Action Alternative 011221, Monthly Diversion (cfs)**

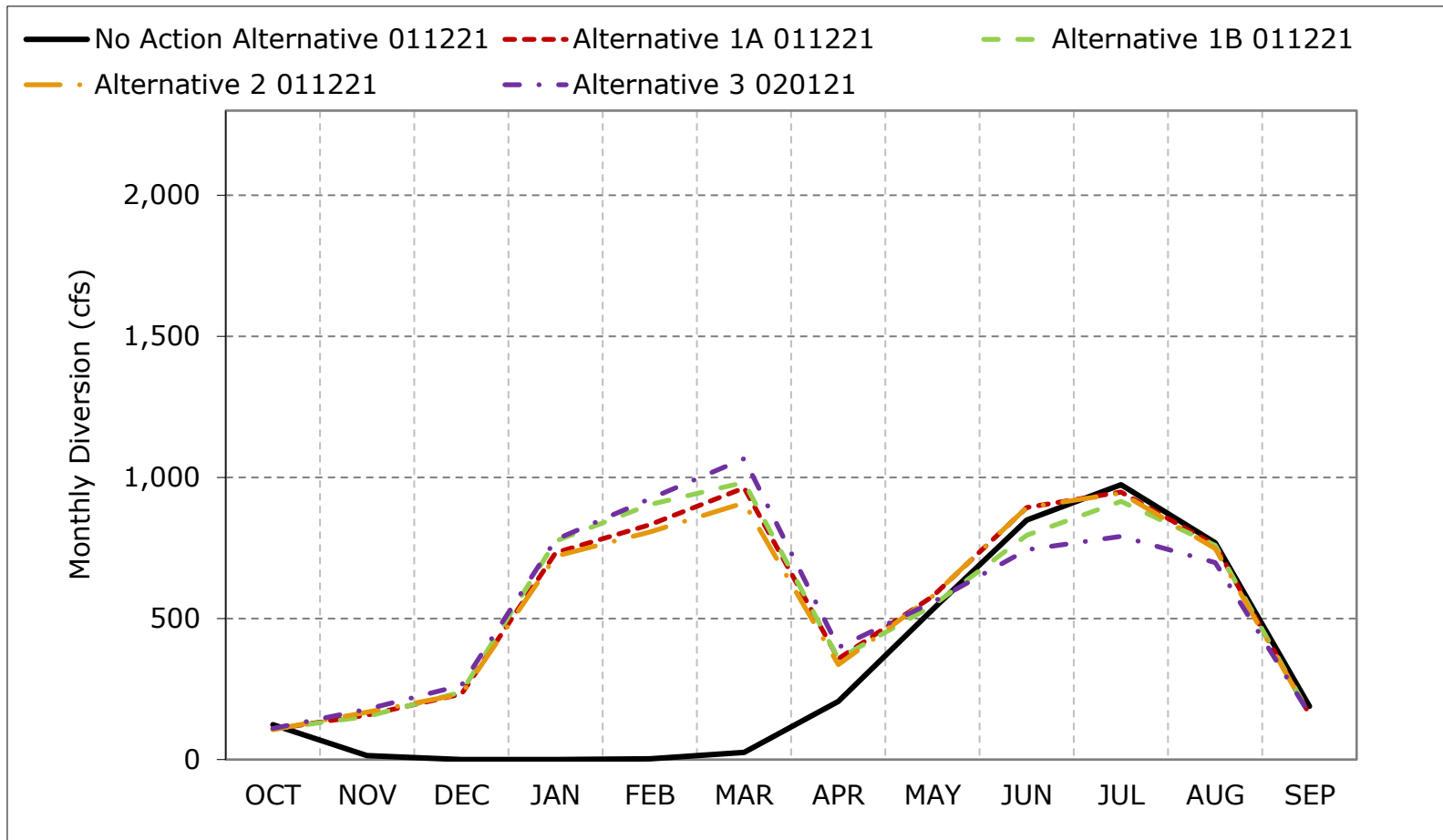
| Statistic                             | Oct | Nov | Dec   | Jan   | Feb   | Mar   | Apr | May  | Jun  | Jul  | Aug  | Sep  |
|---------------------------------------|-----|-----|-------|-------|-------|-------|-----|------|------|------|------|------|
| <b>Probability of Exceedance</b>      |     |     |       |       |       |       |     |      |      |      |      |      |
| 10%                                   | -4  | 533 | 1,188 | 2,121 | 2,121 | 2,061 | 813 | 32   | 22   | -41  | -3   | -2   |
| 20%                                   | -11 | 90  | 345   | 1,778 | 2,121 | 2,084 | 83  | 65   | -8   | -78  | -50  | -7   |
| 30%                                   | -34 | 8   | 0     | 1,124 | 2,069 | 2,104 | 40  | -2   | -40  | -73  | -41  | -7   |
| 40%                                   | -21 | 2   | 0     | 744   | 1,033 | 2,031 | 23  | -53  | -164 | -233 | -120 | -41  |
| 50%                                   | -13 | 4   | 0     | 535   | 574   | 1,313 | 38  | -31  | -501 | -592 | -129 | -86  |
| 60%                                   | -16 | 8   | 0     | 328   | 293   | 86    | 16  | -60  | -472 | -547 | -327 | -104 |
| 70%                                   | -14 | 1   | 0     | 0     | 23    | 35    | 51  | -152 | -154 | -187 | -148 | -28  |
| 80%                                   | -8  | 0   | 0     | 0     | 0     | 7     | 5   | -80  | -205 | -238 | -46  | -8   |
| 90%                                   | -3  | 0   | 0     | 0     | 0     | 0     | 16  | 34   | 6    | 7    | -4   | 3    |
| <b>Long Term</b>                      |     |     |       |       |       |       |     |      |      |      |      |      |
| Full Simulation Period <sup>a</sup>   | -14 | 164 | 263   | 779   | 922   | 1,041 | 191 | 25   | -104 | -183 | -71  | -27  |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |       |       |       |       |     |      |      |      |      |      |
| Wet (32%)                             | 2   | 325 | 37    | 1,205 | 1,179 | 1,047 | 531 | 244  | 85   | 21   | 44   | 0    |
| Above Normal (15%)                    | -16 | 310 | 305   | 1,252 | 1,387 | 1,635 | 135 | -22  | -270 | -736 | -414 | -49  |
| Below Normal (17%)                    | -39 | 67  | 381   | 589   | 1,165 | 1,242 | 55  | -124 | -307 | -362 | -100 | -51  |
| Dry (22%)                             | -24 | 20  | 330   | 330   | 565   | 977   | -30 | -124 | -202 | -113 | -49  | -51  |
| Critical (15%)                        | -1  | 2   | 472   | 282   | 152   | 297   | 0   | -3   | 32   | 34   | 26   | 4    |

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).

c These results are displayed with calendar year - year type sorting.

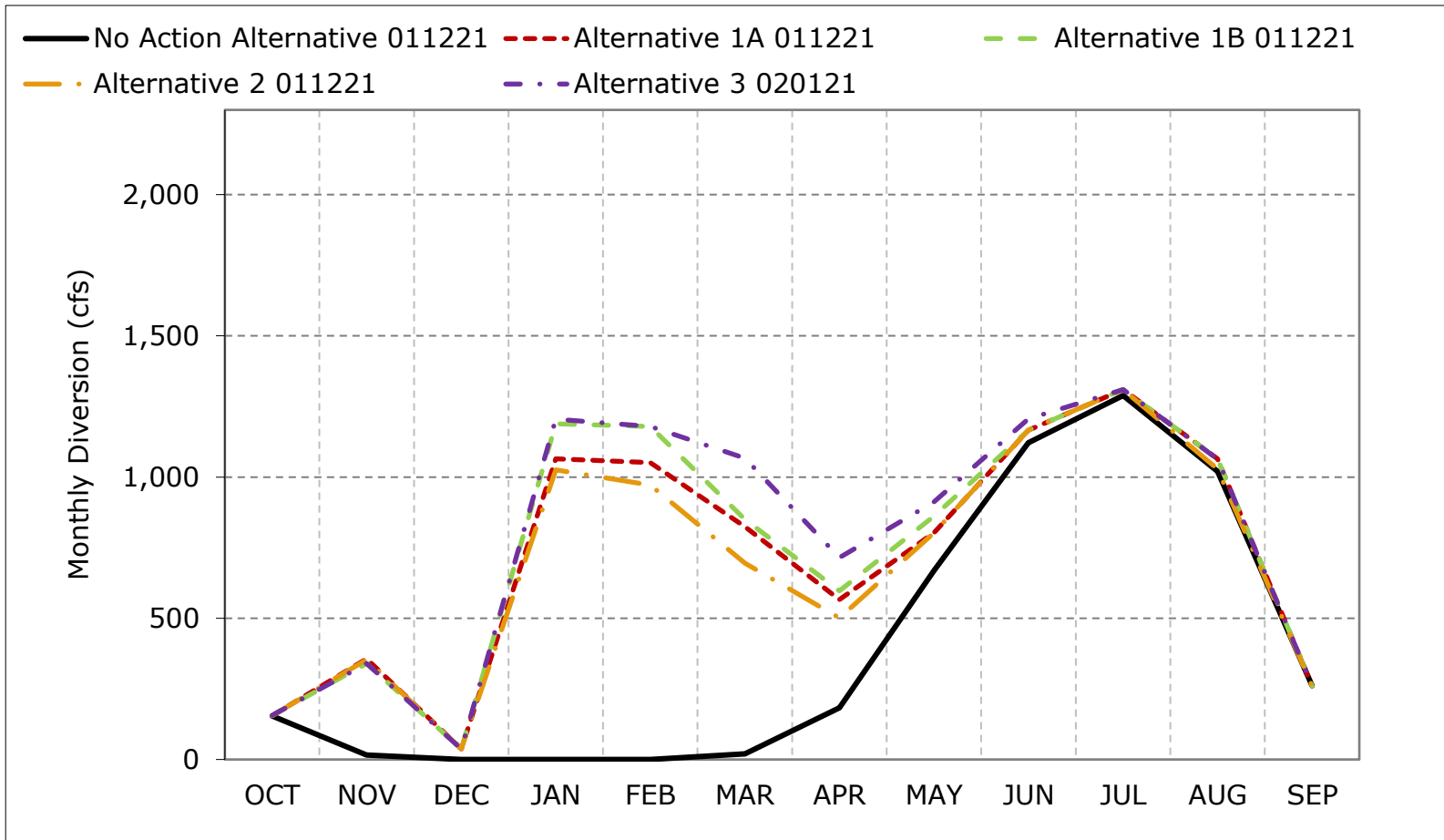
**Figure 5B1-1-1. Red Bluff Diversion - Tehama Colusa Canal, Long-Term Average Diversion**



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

\*These results are displayed with calendar year - year type sorting.

**Figure 5B1-1-2. Red Bluff Diversion - Tehama Colusa Canal, Wet Year Average Diversion**

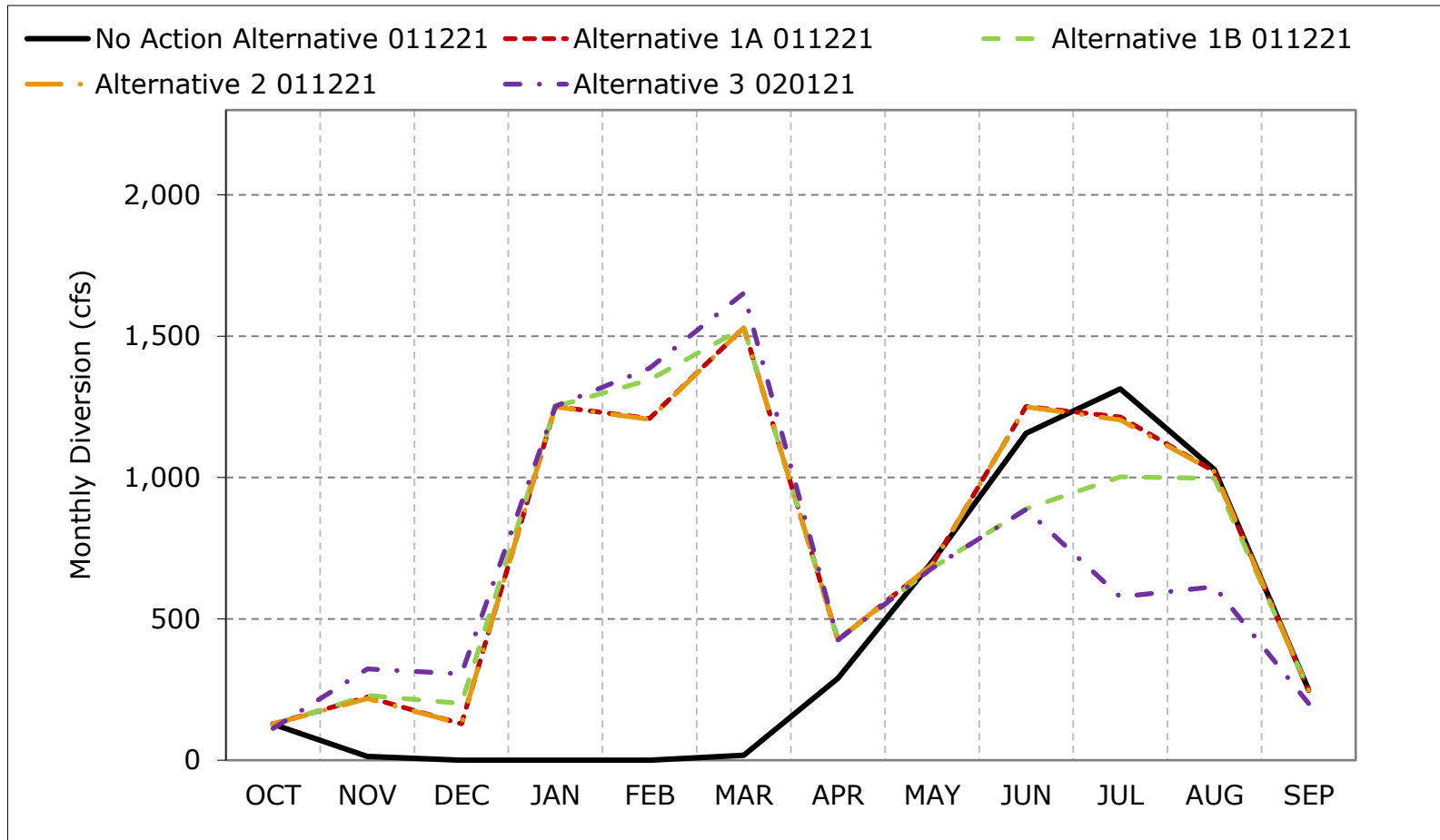


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

\*These results are displayed with calendar year - year type sorting.



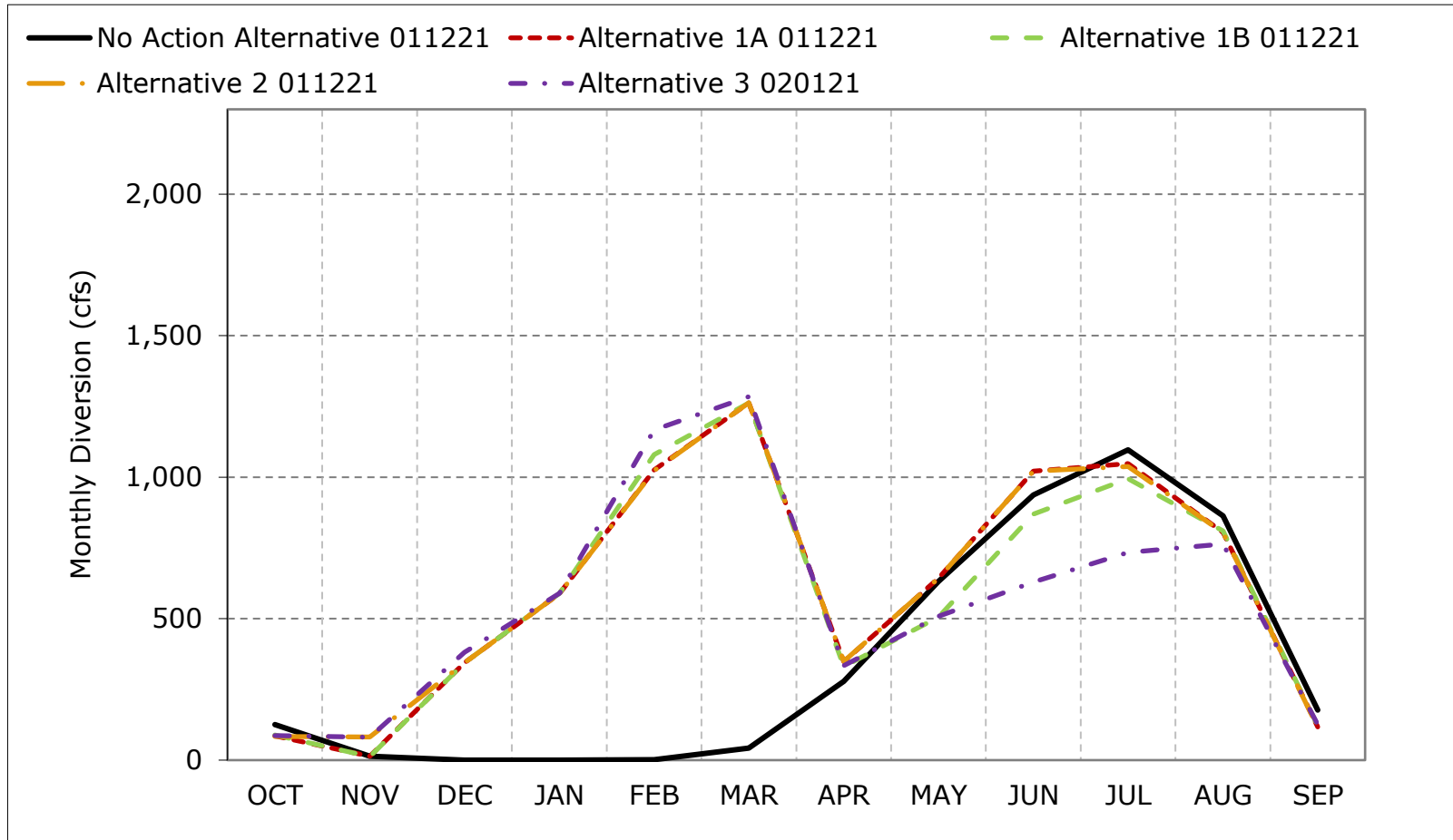
**Figure 5B1-1-3. Red Bluff Diversion - Tehama Colusa Canal, Above Normal Year Average Diversion**



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

\*These results are displayed with calendar year - year type sorting.

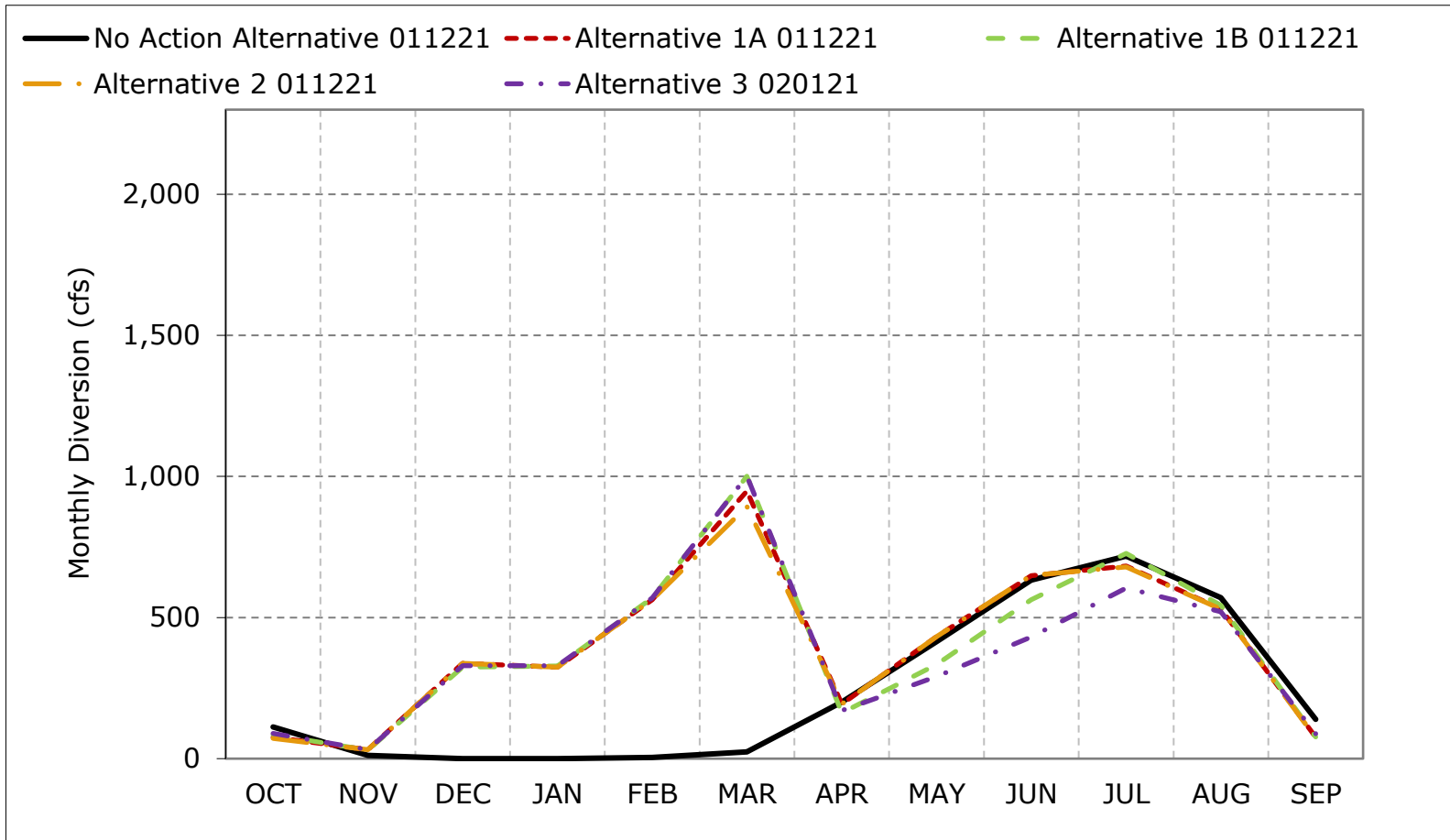
**Figure 5B1-1-4. Red Bluff Diversion - Tehama Colusa Canal, Below Normal Year Average Diversion**



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

\*These results are displayed with calendar year - year type sorting.

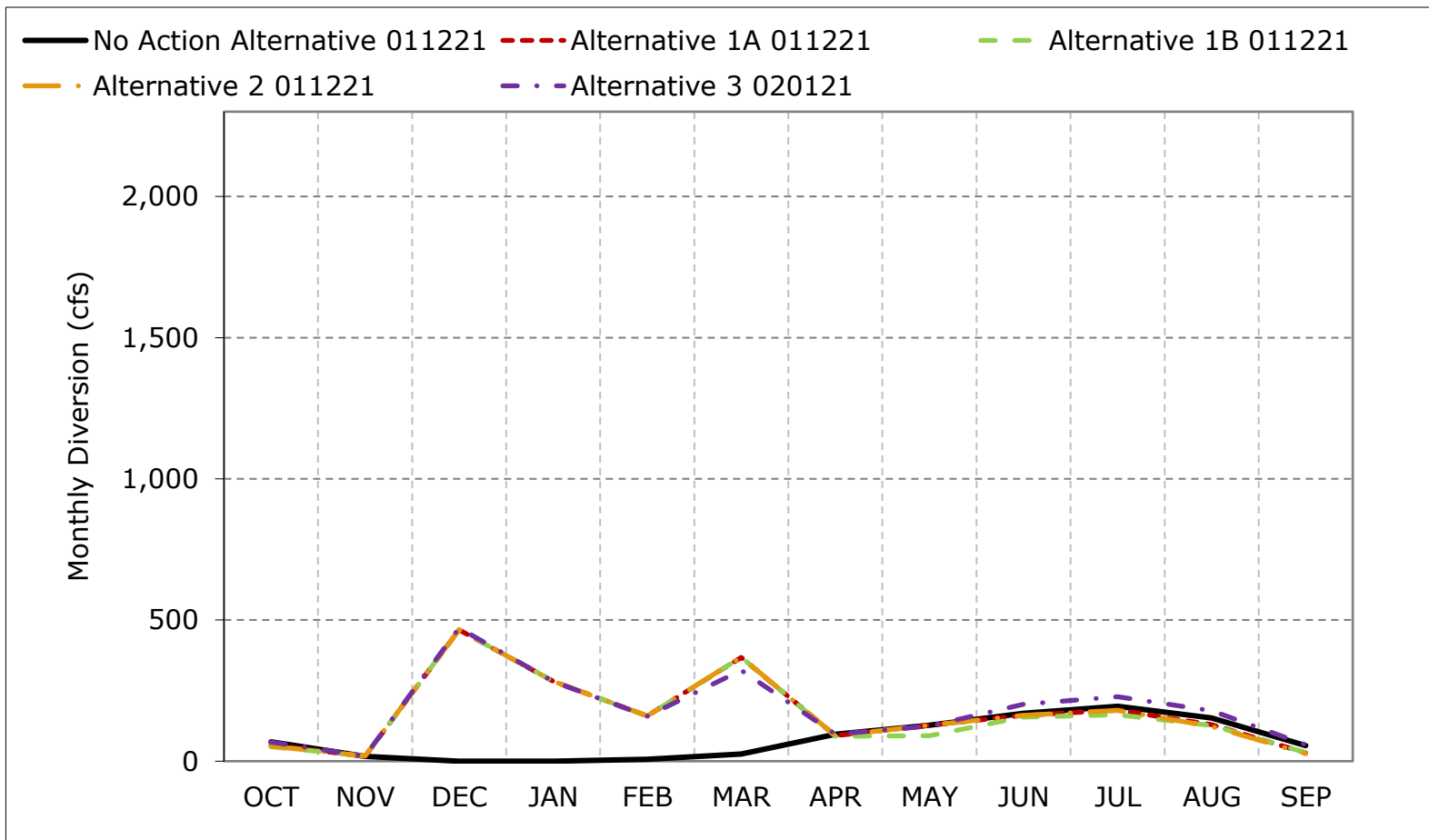
**Figure 5B1-1-5. Red Bluff Diversion - Tehama Colusa Canal, Dry Year  
Average Diversion**



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

\*These results are displayed with calendar year - year type sorting.

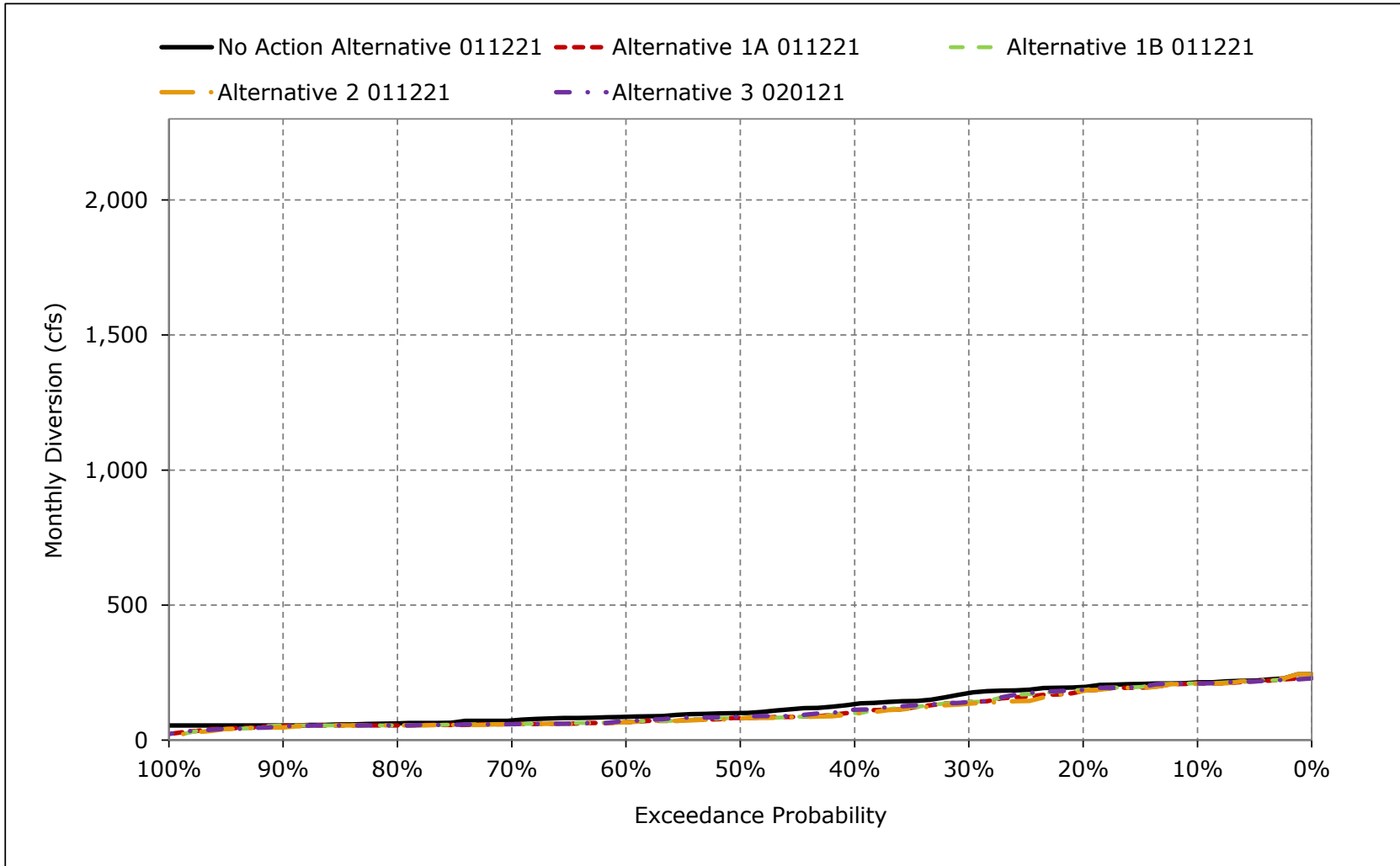
**Figure 5B1-1-6. Red Bluff Diversion - Tehama Colusa Canal, Critical Year Average Diversion**



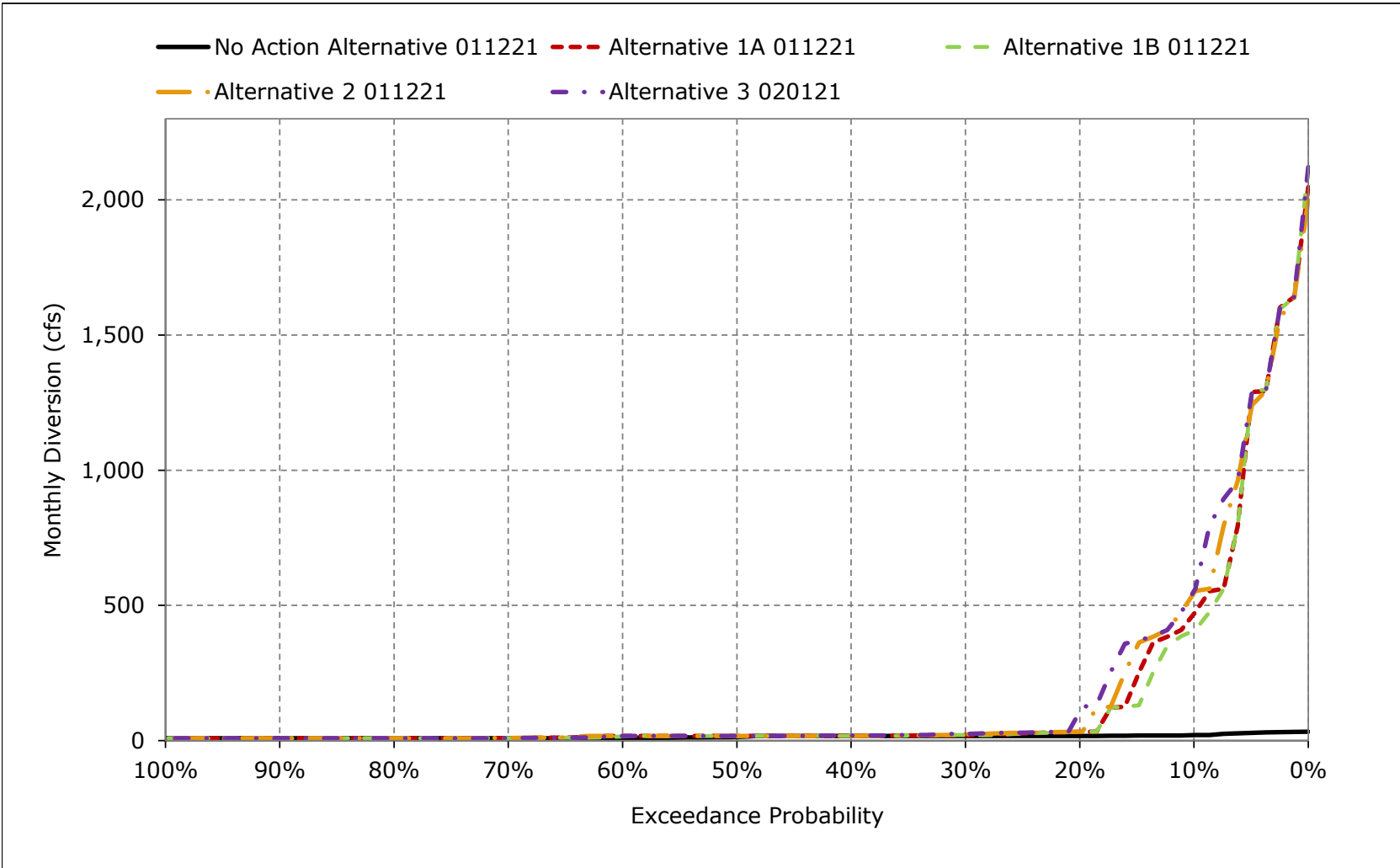
\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

\*These results are displayed with calendar year - year type sorting.

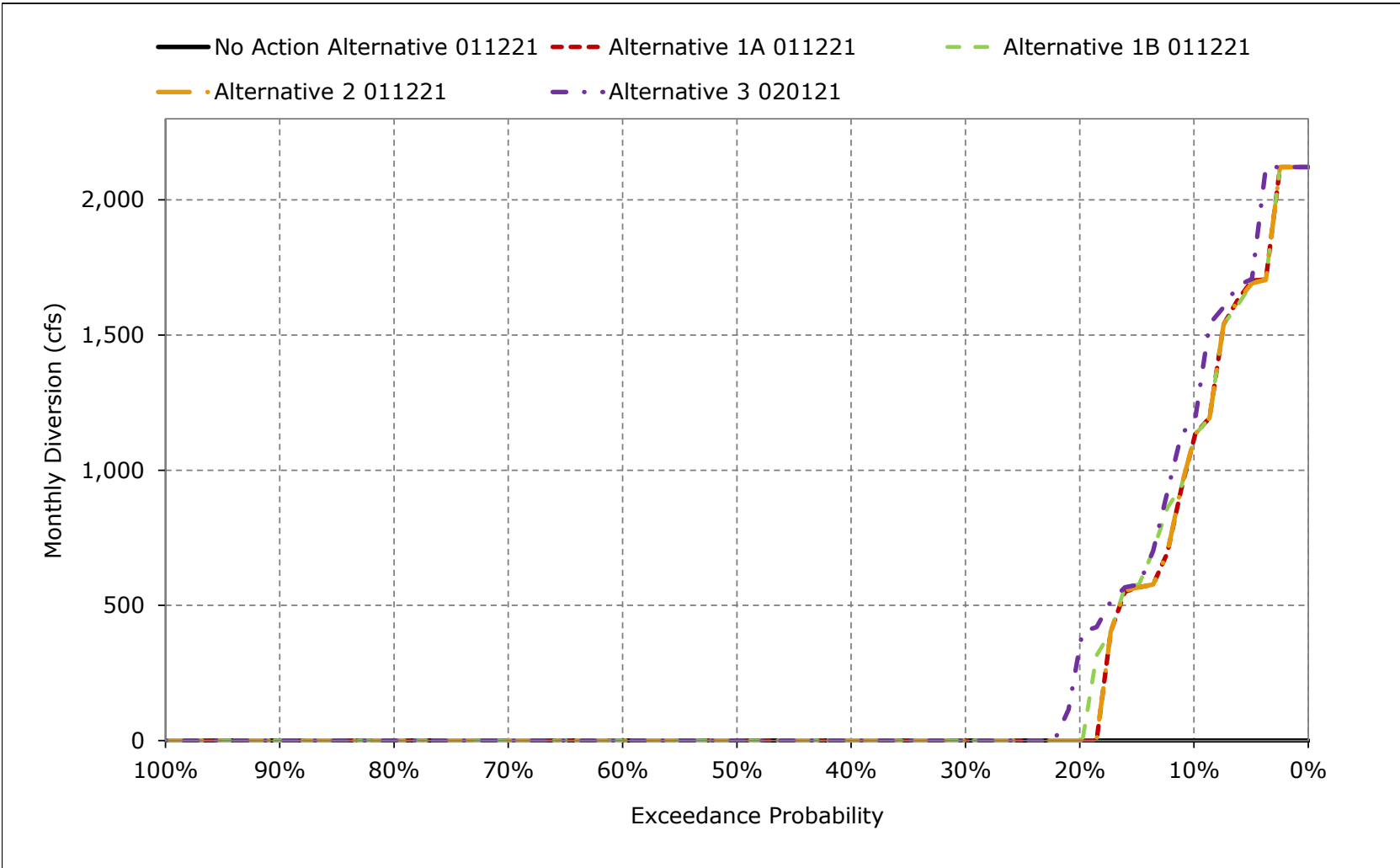
**Figure 5B1-1-7. Red Bluff Diversion - Tehama Colusa Canal, October**



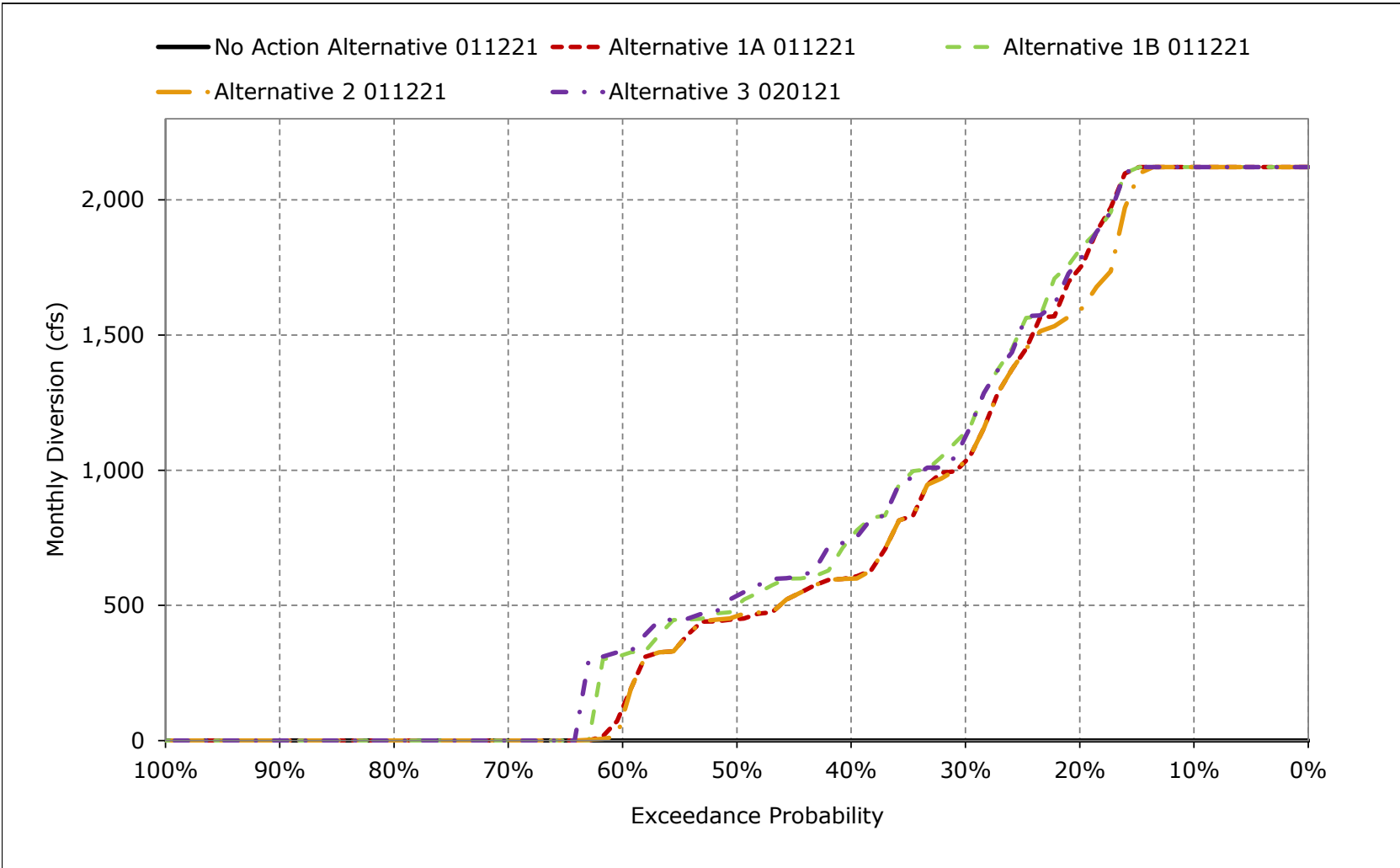
**Figure 5B1-1-8. Red Bluff Diversion - Tehama Colusa Canal, November**



**Figure 5B1-1-9. Red Bluff Diversion - Tehama Colusa Canal, December**

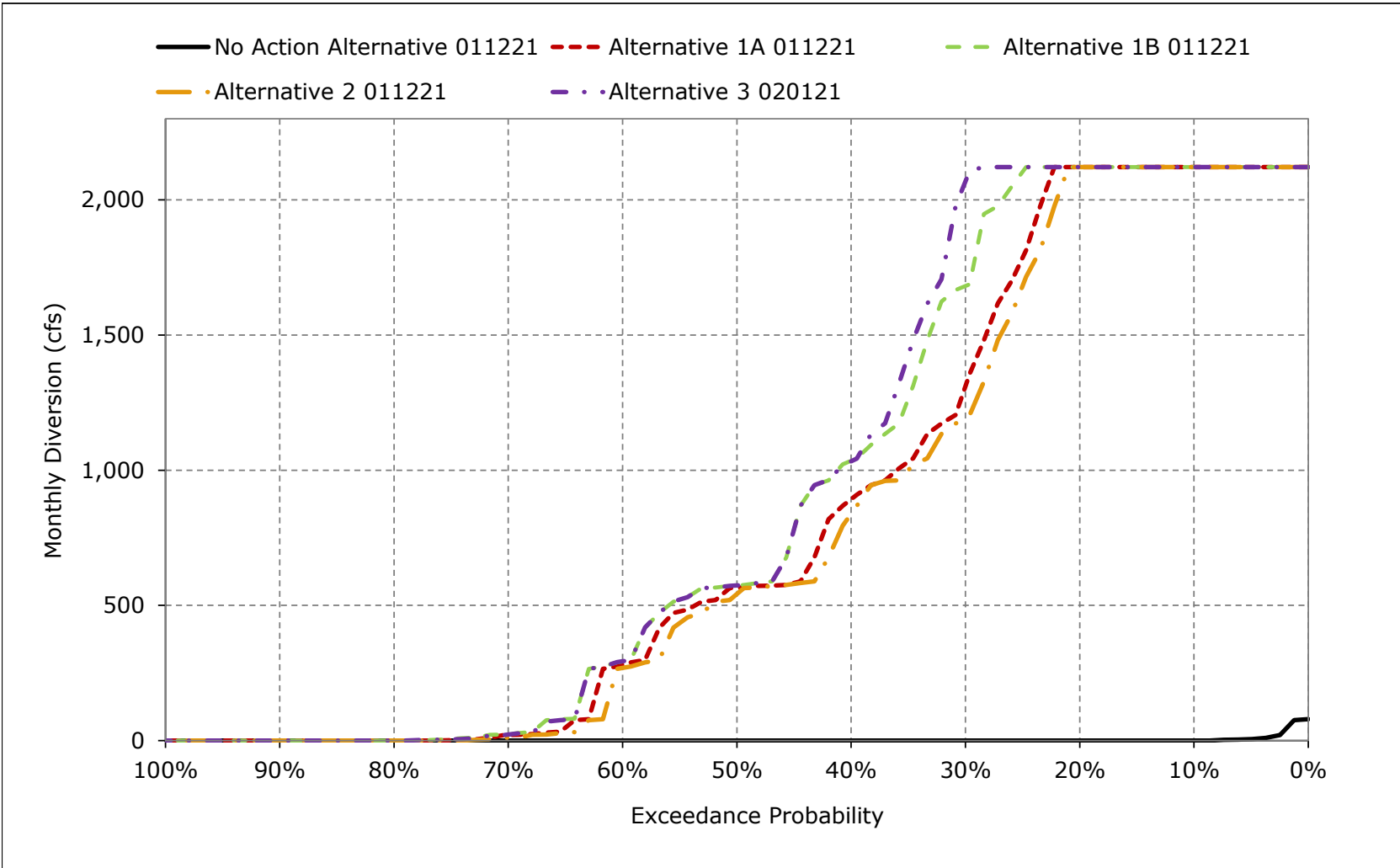


**Figure 5B1-1-10. Red Bluff Diversion - Tehama Colusa Canal, January**

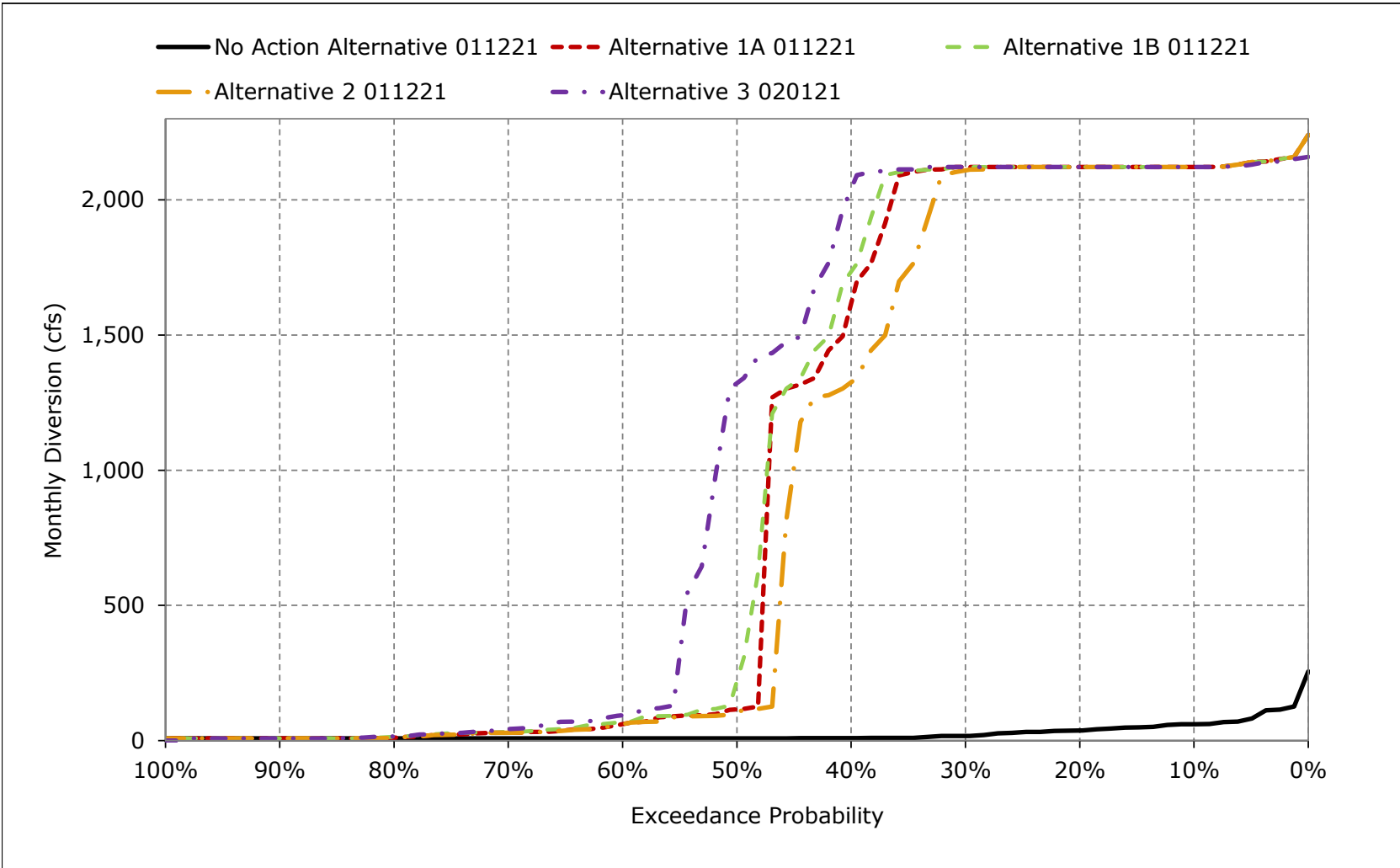




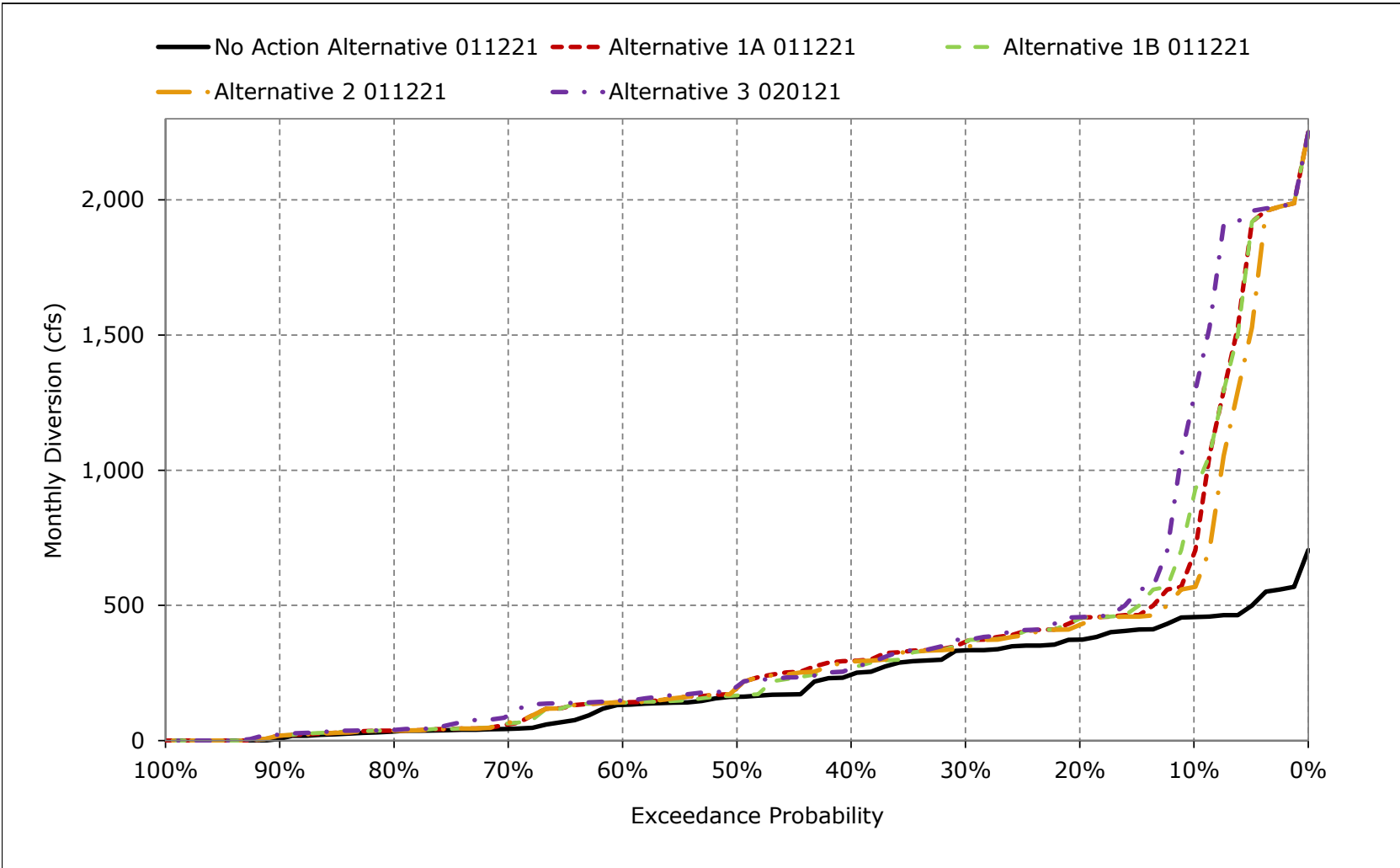
**Figure 5B1-1-11. Red Bluff Diversion - Tehama Colusa Canal, February**



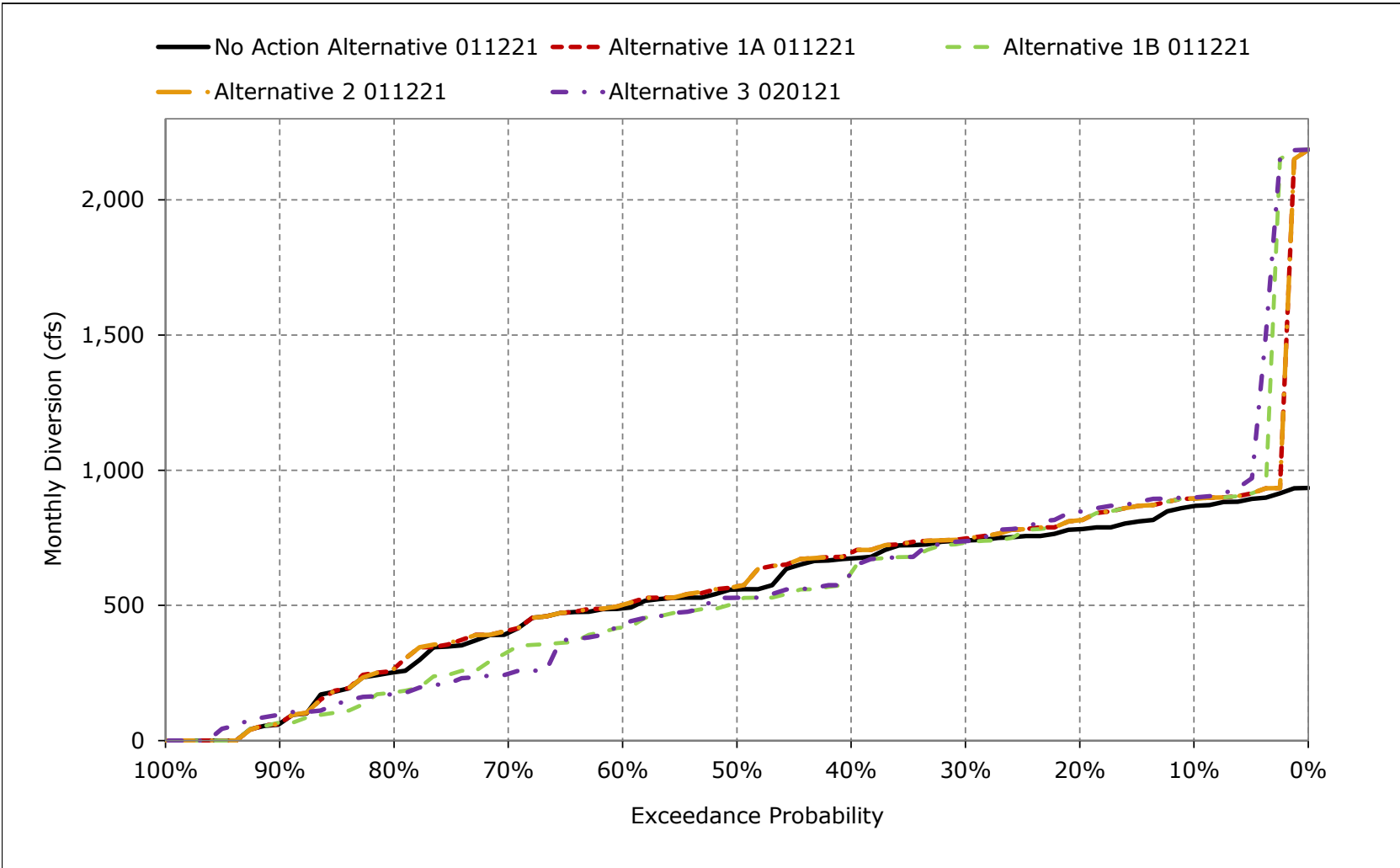
**Figure 5B1-1-12. Red Bluff Diversion - Tehama Colusa Canal, March**



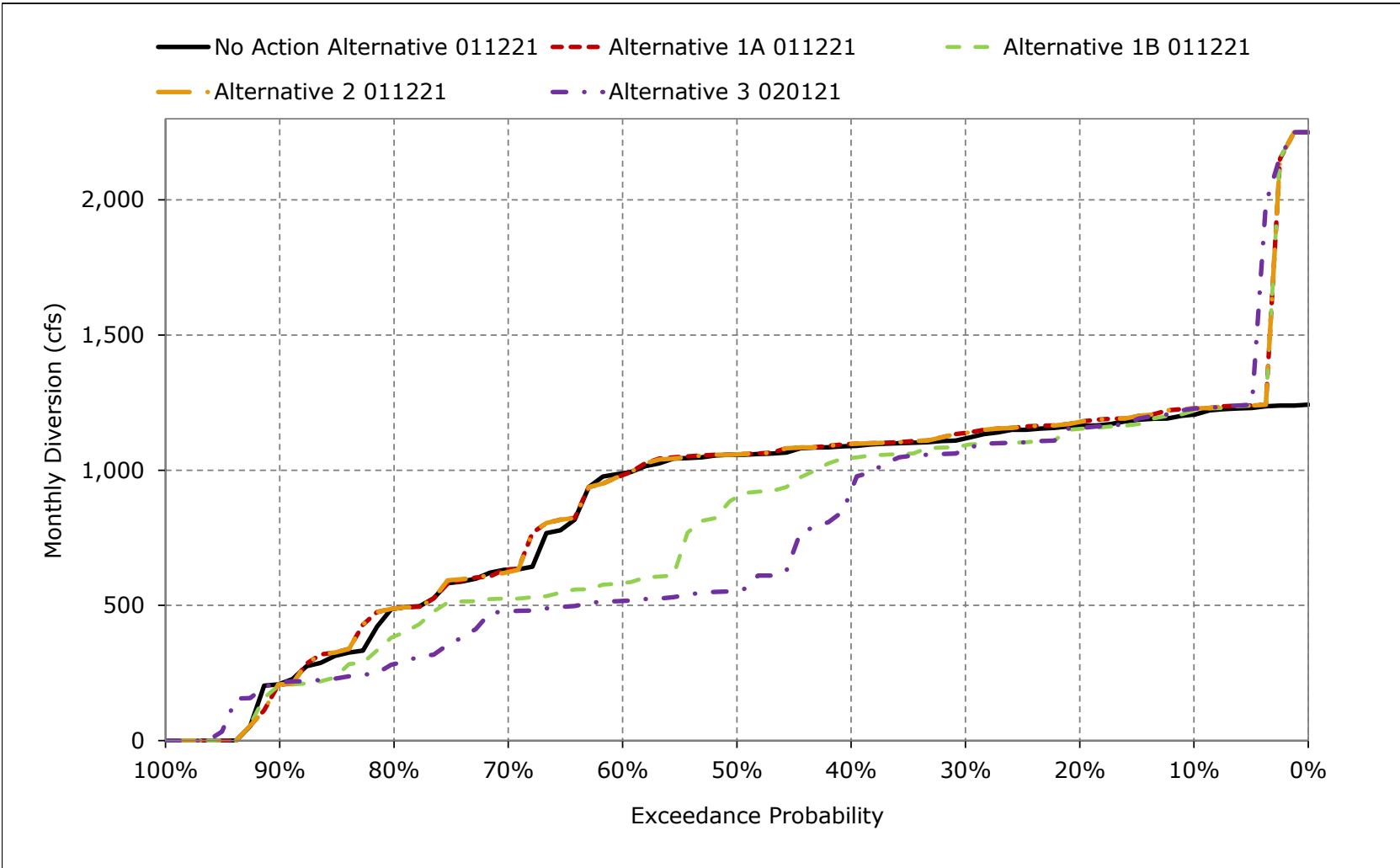
**Figure 5B1-1-13. Red Bluff Diversion - Tehama Colusa Canal, April**



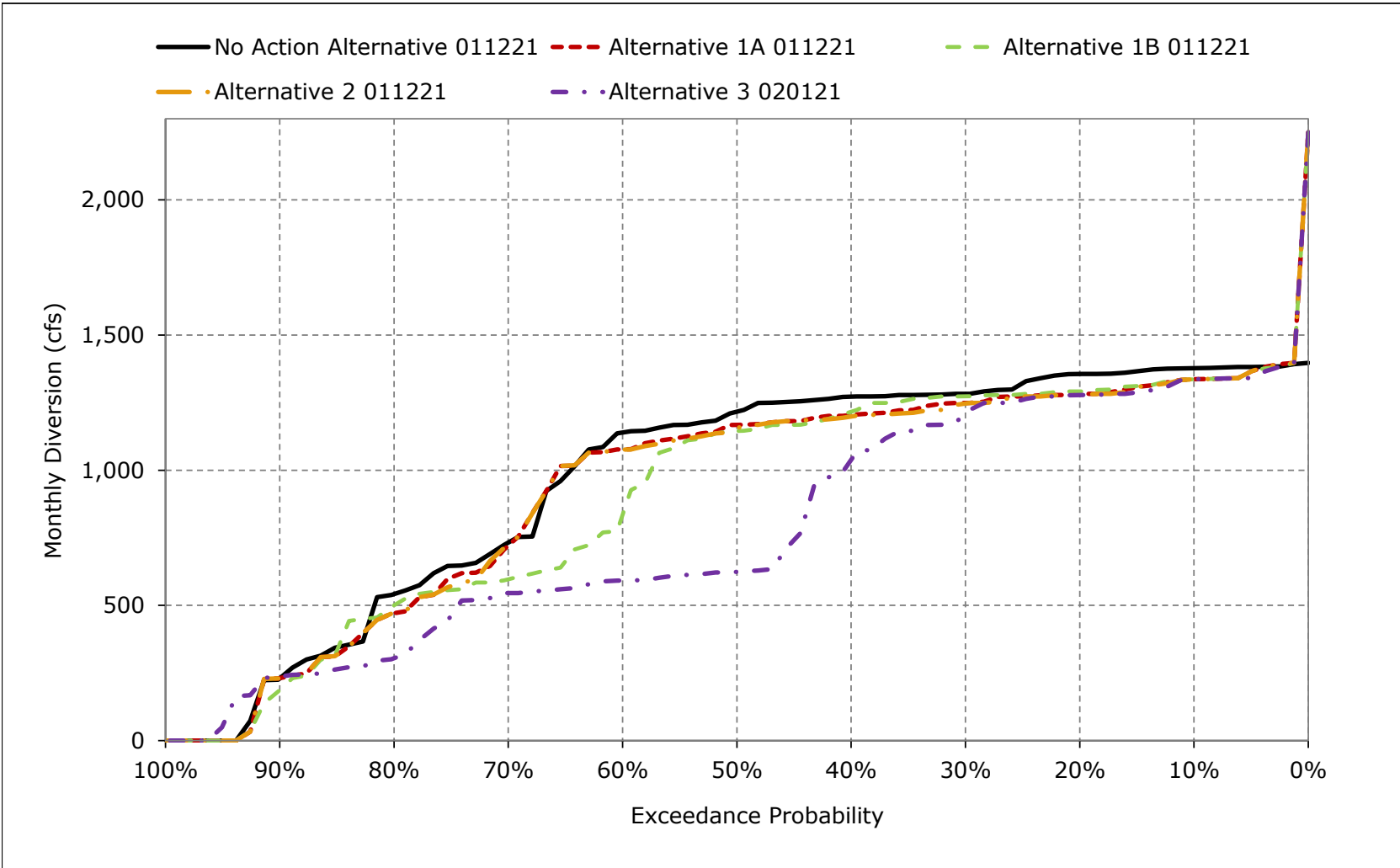
**Figure 5B1-1-14. Red Bluff Diversion - Tehama Colusa Canal, May**



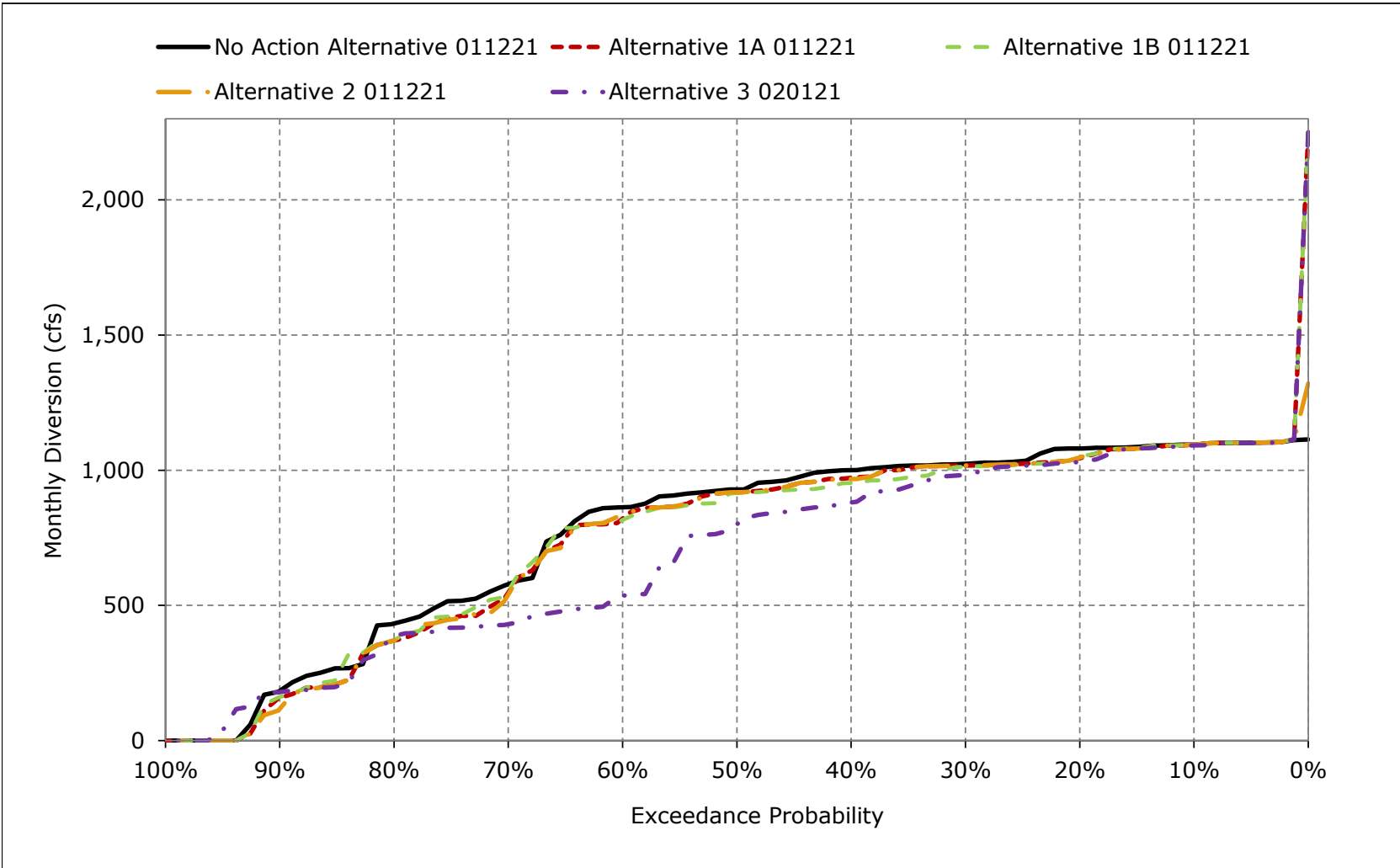
**Figure 5B1-1-15. Red Bluff Diversion - Tehama Colusa Canal, June**



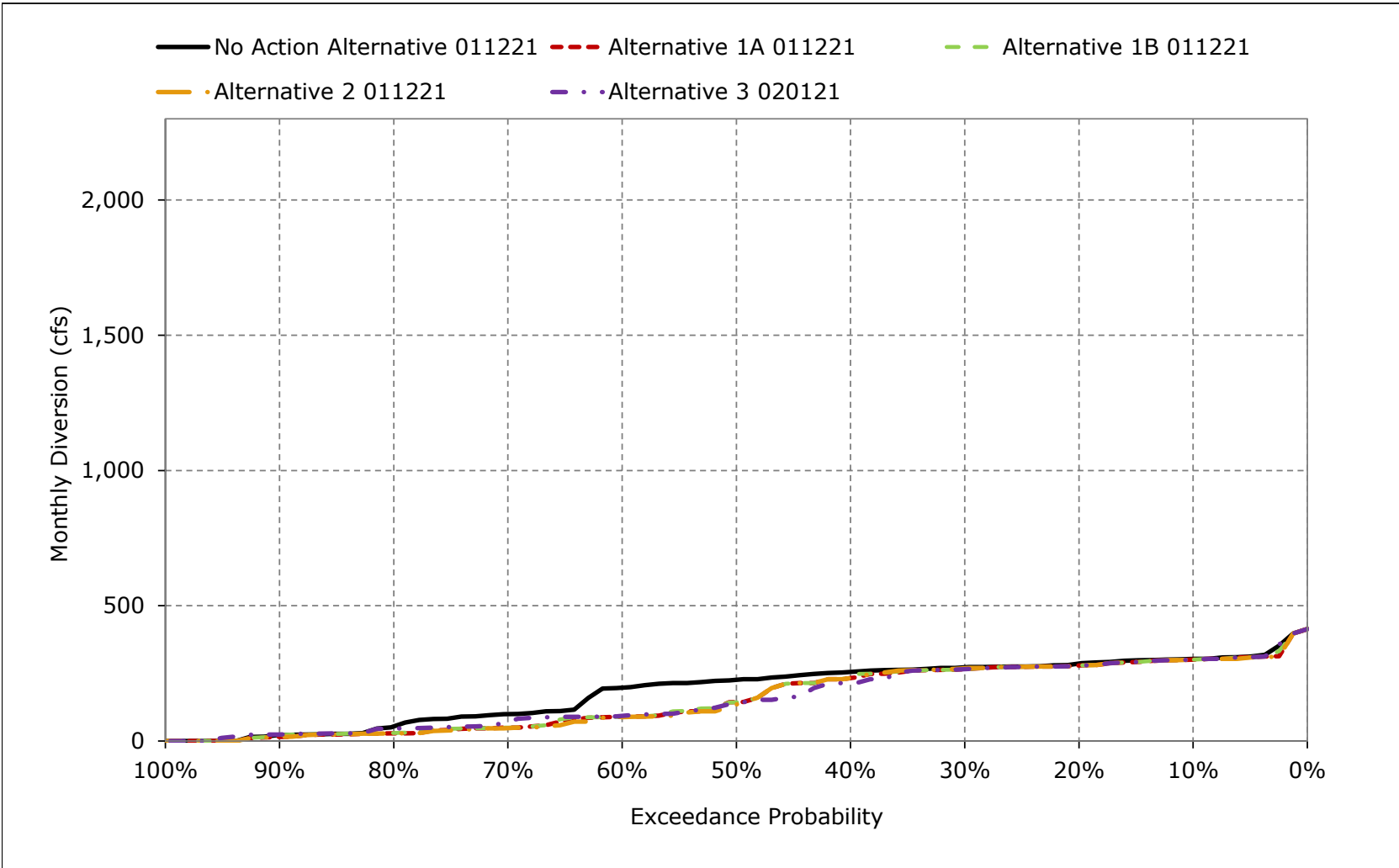
**Figure 5B1-1-16. Red Bluff Diversion - Tehama Colusa Canal, July**



**Figure 5B1-1-17. Red Bluff Diversion - Tehama Colusa Canal, August**



**Figure 5B1-1-18. Red Bluff Diversion - Tehama Colusa Canal, September**





**Table 5B1-2-1a. Hamilton City Diversion - Glenn Colusa Canal, No Action Alternative 011221, Monthly Diversion (cfs)**

| Statistic                             | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May   | Jun   | Jul   | Aug   | Sep |
|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|-----|
| <b>Probability of Exceedance</b>      |     |     |     |     |     |     |     |       |       |       |       |     |
| 10%                                   | 610 | 798 | 292 | 126 | 68  | 67  | 551 | 2,340 | 2,710 | 2,633 | 2,241 | 633 |
| 20%                                   | 605 | 774 | 270 | 86  | 68  | 50  | 525 | 2,296 | 2,620 | 2,611 | 2,219 | 633 |
| 30%                                   | 598 | 750 | 249 | 75  | 68  | 36  | 493 | 2,260 | 2,543 | 2,563 | 2,093 | 632 |
| 40%                                   | 586 | 699 | 224 | 75  | 68  | 23  | 466 | 2,245 | 2,483 | 2,527 | 2,065 | 629 |
| 50%                                   | 574 | 679 | 199 | 75  | 68  | 12  | 451 | 2,212 | 2,410 | 2,521 | 1,999 | 614 |
| 60%                                   | 556 | 649 | 181 | 75  | 68  | 11  | 423 | 2,164 | 2,347 | 2,489 | 1,924 | 602 |
| 70%                                   | 541 | 606 | 159 | 75  | 66  | 11  | 410 | 2,079 | 2,297 | 2,443 | 1,844 | 593 |
| 80%                                   | 516 | 575 | 158 | 75  | 66  | 11  | 380 | 2,025 | 2,258 | 2,443 | 1,812 | 536 |
| 90%                                   | 451 | 546 | 158 | 64  | 52  | 11  | 296 | 1,858 | 2,223 | 2,267 | 1,783 | 493 |
| <b>Long Term</b>                      |     |     |     |     |     |     |     |       |       |       |       |     |
| Full Simulation Period <sup>a</sup>   | 556 | 674 | 209 | 82  | 67  | 31  | 435 | 2,142 | 2,427 | 2,490 | 1,994 | 591 |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |     |     |     |     |     |       |       |       |       |     |
| Wet (32%)                             | 575 | 695 | 229 | 78  | 67  | 22  | 378 | 2,117 | 2,238 | 2,538 | 2,190 | 621 |
| Above Normal (15%)                    | 560 | 678 | 207 | 73  | 65  | 17  | 426 | 2,085 | 2,350 | 2,518 | 2,009 | 615 |
| Below Normal (17%)                    | 561 | 696 | 201 | 90  | 68  | 34  | 450 | 2,188 | 2,557 | 2,617 | 2,026 | 578 |
| Dry (22%)                             | 571 | 662 | 213 | 85  | 68  | 32  | 460 | 2,186 | 2,662 | 2,467 | 1,843 | 589 |
| Critical (15%)                        | 484 | 616 | 170 | 89  | 64  | 62  | 512 | 2,133 | 2,412 | 2,243 | 1,745 | 517 |

**Table 5B1-2-1b. Hamilton City Diversion - Glenn Colusa Canal, Alternative 1A 011221, Monthly Diversion (cfs)**

| Statistic                             | Oct | Nov | Dec | Jan | Feb | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep |
|---------------------------------------|-----|-----|-----|-----|-----|-------|-------|-------|-------|-------|-------|-----|
| <b>Probability of Exceedance</b>      |     |     |     |     |     |       |       |       |       |       |       |     |
| 10%                                   | 612 | 784 | 296 | 673 | 776 | 1,098 | 1,792 | 2,379 | 2,701 | 2,633 | 2,241 | 633 |
| 20%                                   | 601 | 749 | 268 | 140 | 277 | 323   | 550   | 2,313 | 2,581 | 2,614 | 2,238 | 633 |
| 30%                                   | 574 | 716 | 237 | 112 | 73  | 221   | 525   | 2,281 | 2,519 | 2,563 | 2,093 | 630 |
| 40%                                   | 552 | 671 | 214 | 79  | 68  | 109   | 490   | 2,245 | 2,469 | 2,525 | 2,065 | 625 |
| 50%                                   | 528 | 619 | 190 | 75  | 68  | 63    | 456   | 2,208 | 2,412 | 2,521 | 1,982 | 595 |
| 60%                                   | 488 | 583 | 173 | 75  | 68  | 45    | 426   | 2,132 | 2,348 | 2,468 | 1,924 | 541 |
| 70%                                   | 421 | 554 | 158 | 75  | 68  | 25    | 414   | 2,052 | 2,310 | 2,346 | 1,797 | 486 |
| 80%                                   | 386 | 529 | 158 | 75  | 68  | 11    | 392   | 1,968 | 2,266 | 2,200 | 1,706 | 440 |
| 90%                                   | 336 | 447 | 146 | 75  | 66  | 11    | 320   | 1,797 | 2,203 | 1,425 | 1,026 | 344 |
| <b>Long Term</b>                      |     |     |     |     |     |       |       |       |       |       |       |     |
| Full Simulation Period <sup>a</sup>   | 542 | 623 | 235 | 213 | 234 | 272   | 631   | 2,136 | 2,409 | 2,310 | 1,866 | 549 |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |     |     |     |       |       |       |       |       |       |     |
| Wet (32%)                             | 740 | 693 | 225 | 318 | 460 | 345   | 880   | 2,233 | 2,367 | 2,579 | 2,236 | 655 |
| Above Normal (15%)                    | 560 | 629 | 187 | 447 | 220 | 595   | 583   | 2,173 | 2,419 | 2,512 | 2,009 | 614 |
| Below Normal (17%)                    | 418 | 619 | 289 | 90  | 139 | 143   | 583   | 2,191 | 2,547 | 2,608 | 1,987 | 529 |
| Dry (22%)                             | 437 | 560 | 298 | 86  | 103 | 178   | 437   | 2,086 | 2,366 | 1,925 | 1,440 | 440 |
| Critical (15%)                        | 395 | 565 | 150 | 86  | 64  | 83    | 490   | 1,898 | 2,398 | 1,752 | 1,419 | 439 |

**Table 5B1-2-1c. Hamilton City Diversion - Glenn Colusa Canal, Alternative 1A 011221 minus No Action Alternative 011221, Monthly Diversion (cfs)**

| Statistic                             | Oct  | Nov  | Dec | Jan | Feb | Mar   | Apr   | May  | Jun  | Jul  | Aug  | Sep  |
|---------------------------------------|------|------|-----|-----|-----|-------|-------|------|------|------|------|------|
| <b>Probability of Exceedance</b>      |      |      |     |     |     |       |       |      |      |      |      |      |
| 10%                                   | 2    | -14  | 4   | 547 | 707 | 1,031 | 1,240 | 38   | -9   | 0    | 0    | 0    |
| 20%                                   | -4   | -25  | -1  | 53  | 208 | 273   | 26    | 17   | -40  | 3    | 19   | 0    |
| 30%                                   | -24  | -34  | -11 | 38  | 5   | 185   | 32    | 21   | -24  | 0    | 0    | -2   |
| 40%                                   | -33  | -28  | -9  | 4   | 0   | 86    | 23    | 0    | -14  | -2   | 0    | -4   |
| 50%                                   | -46  | -60  | -9  | 0   | 0   | 52    | 6     | -4   | 2    | 0    | -17  | -19  |
| 60%                                   | -69  | -66  | -8  | 0   | 0   | 34    | 3     | -32  | 2    | -22  | 0    | -61  |
| 70%                                   | -119 | -52  | -1  | 0   | 2   | 14    | 4     | -27  | 14   | -97  | -47  | -107 |
| 80%                                   | -130 | -46  | 0   | 0   | 2   | 0     | 12    | -57  | 8    | -243 | -105 | -96  |
| 90%                                   | -115 | -99  | -12 | 11  | 14  | 0     | 24    | -62  | -20  | -841 | -757 | -149 |
| <b>Long Term</b>                      |      |      |     |     |     |       |       |      |      |      |      |      |
| Full Simulation Period <sup>a</sup>   | -14  | -51  | 27  | 130 | 167 | 241   | 196   | -6   | -18  | -180 | -128 | -42  |
| <b>Water Year Types<sup>b,c</sup></b> |      |      |     |     |     |       |       |      |      |      |      |      |
| Wet (32%)                             | 165  | -2   | -4  | 239 | 392 | 324   | 501   | 117  | 129  | 41   | 46   | 34   |
| Above Normal (15%)                    | 0    | -49  | -20 | 374 | 155 | 578   | 157   | 88   | 69   | -5   | 0    | -1   |
| Below Normal (17%)                    | -143 | -78  | 88  | 0   | 71  | 109   | 133   | 3    | -10  | -9   | -39  | -49  |
| Dry (22%)                             | -134 | -102 | 85  | 1   | 35  | 146   | -23   | -100 | -296 | -542 | -403 | -149 |
| Critical (15%)                        | -89  | -51  | -20 | -3  | 0   | 21    | -22   | -235 | -14  | -492 | -326 | -78  |

a Based on the 82-year simulation period.

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

c These results are displayed with calendar year - year type sorting.

**Table 5B1-2-2a. Hamilton City Diversion - Glenn Colusa Canal, No Action Alternative 011221, Monthly Diversion (cfs)**

| Statistic                             | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May   | Jun   | Jul   | Aug   | Sep |
|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|-----|
| <b>Probability of Exceedance</b>      |     |     |     |     |     |     |     |       |       |       |       |     |
| 10%                                   | 610 | 798 | 292 | 126 | 68  | 67  | 551 | 2,340 | 2,710 | 2,633 | 2,241 | 633 |
| 20%                                   | 605 | 774 | 270 | 86  | 68  | 50  | 525 | 2,296 | 2,620 | 2,611 | 2,219 | 633 |
| 30%                                   | 598 | 750 | 249 | 75  | 68  | 36  | 493 | 2,260 | 2,543 | 2,563 | 2,093 | 632 |
| 40%                                   | 586 | 699 | 224 | 75  | 68  | 23  | 466 | 2,245 | 2,483 | 2,527 | 2,065 | 629 |
| 50%                                   | 574 | 679 | 199 | 75  | 68  | 12  | 451 | 2,212 | 2,410 | 2,521 | 1,999 | 614 |
| 60%                                   | 556 | 649 | 181 | 75  | 68  | 11  | 423 | 2,164 | 2,347 | 2,489 | 1,924 | 602 |
| 70%                                   | 541 | 606 | 159 | 75  | 66  | 11  | 410 | 2,079 | 2,297 | 2,443 | 1,844 | 593 |
| 80%                                   | 516 | 575 | 158 | 75  | 66  | 11  | 380 | 2,025 | 2,258 | 2,443 | 1,812 | 536 |
| 90%                                   | 451 | 546 | 158 | 64  | 52  | 11  | 296 | 1,858 | 2,223 | 2,267 | 1,783 | 493 |
| <b>Long Term</b>                      |     |     |     |     |     |     |     |       |       |       |       |     |
| Full Simulation Period <sup>a</sup>   | 556 | 674 | 209 | 82  | 67  | 31  | 435 | 2,142 | 2,427 | 2,490 | 1,994 | 591 |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |     |     |     |     |     |       |       |       |       |     |
| Wet (32%)                             | 575 | 695 | 229 | 78  | 67  | 22  | 378 | 2,117 | 2,238 | 2,538 | 2,190 | 621 |
| Above Normal (15%)                    | 560 | 678 | 207 | 73  | 65  | 17  | 426 | 2,085 | 2,350 | 2,518 | 2,009 | 615 |
| Below Normal (17%)                    | 561 | 696 | 201 | 90  | 68  | 34  | 450 | 2,188 | 2,557 | 2,617 | 2,026 | 578 |
| Dry (22%)                             | 571 | 662 | 213 | 85  | 68  | 32  | 460 | 2,186 | 2,662 | 2,467 | 1,843 | 589 |
| Critical (15%)                        | 484 | 616 | 170 | 89  | 64  | 62  | 512 | 2,133 | 2,412 | 2,243 | 1,745 | 517 |

**Table 5B1-2-2b. Hamilton City Diversion - Glenn Colusa Canal, Alternative 1B 011221, Monthly Diversion (cfs)**

| Statistic                             | Oct | Nov | Dec | Jan | Feb | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep |
|---------------------------------------|-----|-----|-----|-----|-----|-------|-------|-------|-------|-------|-------|-----|
| <b>Probability of Exceedance</b>      |     |     |     |     |     |       |       |       |       |       |       |     |
| 10%                                   | 613 | 784 | 296 | 690 | 869 | 1,367 | 2,174 | 2,370 | 2,708 | 2,633 | 2,241 | 633 |
| 20%                                   | 603 | 759 | 268 | 140 | 397 | 319   | 552   | 2,301 | 2,613 | 2,611 | 2,238 | 633 |
| 30%                                   | 580 | 716 | 237 | 112 | 80  | 239   | 533   | 2,271 | 2,542 | 2,563 | 2,093 | 630 |
| 40%                                   | 554 | 673 | 214 | 77  | 68  | 111   | 499   | 2,243 | 2,477 | 2,521 | 2,065 | 627 |
| 50%                                   | 528 | 619 | 190 | 75  | 68  | 66    | 463   | 2,197 | 2,418 | 2,521 | 1,982 | 603 |
| 60%                                   | 488 | 587 | 173 | 75  | 68  | 45    | 429   | 2,095 | 2,360 | 2,464 | 1,910 | 557 |
| 70%                                   | 425 | 554 | 158 | 75  | 68  | 26    | 415   | 2,028 | 2,310 | 2,336 | 1,797 | 494 |
| 80%                                   | 372 | 507 | 158 | 75  | 66  | 11    | 393   | 1,892 | 2,266 | 2,174 | 1,490 | 442 |
| 90%                                   | 338 | 452 | 142 | 75  | 66  | 11    | 333   | 1,688 | 2,204 | 1,419 | 1,026 | 352 |
| <b>Long Term</b>                      |     |     |     |     |     |       |       |       |       |       |       |     |
| Full Simulation Period <sup>a</sup>   | 553 | 626 | 235 | 226 | 256 | 279   | 660   | 2,112 | 2,418 | 2,297 | 1,855 | 543 |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |     |     |     |       |       |       |       |       |       |     |
| Wet (32%)                             | 741 | 693 | 225 | 364 | 524 | 362   | 970   | 2,255 | 2,397 | 2,578 | 2,236 | 620 |
| Above Normal (15%)                    | 618 | 639 | 187 | 447 | 240 | 596   | 583   | 2,172 | 2,317 | 2,423 | 2,009 | 612 |
| Below Normal (17%)                    | 421 | 618 | 289 | 85  | 137 | 133   | 583   | 2,039 | 2,573 | 2,578 | 1,950 | 533 |
| Dry (22%)                             | 437 | 557 | 296 | 86  | 101 | 191   | 440   | 2,075 | 2,461 | 1,948 | 1,421 | 452 |
| Critical (15%)                        | 410 | 584 | 150 | 82  | 64  | 83    | 481   | 1,883 | 2,317 | 1,756 | 1,416 | 453 |

**Table 5B1-2-2c. Hamilton City Diversion - Glenn Colusa Canal, Alternative 1B 011221 minus No Action Alternative 011221, Monthly Diversion (cfs)**

| Statistic                             | Oct  | Nov  | Dec | Jan | Feb | Mar   | Apr   | May  | Jun  | Jul  | Aug  | Sep  |
|---------------------------------------|------|------|-----|-----|-----|-------|-------|------|------|------|------|------|
| <b>Probability of Exceedance</b>      |      |      |     |     |     |       |       |      |      |      |      |      |
| 10%                                   | 2    | -15  | 4   | 564 | 801 | 1,301 | 1,623 | 30   | -2   | 0    | 0    | 0    |
| 20%                                   | -3   | -15  | -1  | 54  | 329 | 269   | 27    | 5    | -7   | 0    | 19   | 0    |
| 30%                                   | -19  | -34  | -11 | 38  | 11  | 203   | 40    | 11   | -1   | 0    | 0    | -2   |
| 40%                                   | -32  | -26  | -9  | 2   | 0   | 88    | 33    | -2   | -7   | -6   | 0    | -3   |
| 50%                                   | -46  | -60  | -9  | 0   | 0   | 54    | 12    | -16  | 7    | 0    | -17  | -11  |
| 60%                                   | -68  | -63  | -8  | 0   | 0   | 34    | 5     | -69  | 14   | -25  | -14  | -46  |
| 70%                                   | -116 | -52  | -1  | 0   | 2   | 14    | 5     | -51  | 14   | -107 | -47  | -99  |
| 80%                                   | -144 | -68  | 0   | 0   | 0   | 0     | 13    | -133 | 8    | -269 | -322 | -94  |
| 90%                                   | -113 | -93  | -16 | 11  | 14  | 0     | 37    | -170 | -18  | -848 | -757 | -141 |
| <b>Long Term</b>                      |      |      |     |     |     |       |       |      |      |      |      |      |
| Full Simulation Period <sup>a</sup>   | -3   | -47  | 26  | 144 | 190 | 248   | 225   | -30  | -9   | -193 | -139 | -48  |
| <b>Water Year Types<sup>b,c</sup></b> |      |      |     |     |     |       |       |      |      |      |      |      |
| Wet (32%)                             | 166  | -2   | -4  | 286 | 457 | 340   | 592   | 138  | 160  | 40   | 46   | -1   |
| Above Normal (15%)                    | 58   | -39  | -20 | 375 | 175 | 579   | 157   | 88   | -32  | -95  | 0    | -3   |
| Below Normal (17%)                    | -140 | -78  | 88  | -5  | 69  | 99    | 133   | -149 | 16   | -39  | -77  | -45  |
| Dry (22%)                             | -134 | -105 | 83  | 1   | 32  | 159   | -20   | -112 | -201 | -519 | -422 | -136 |
| Critical (15%)                        | -74  | -32  | -20 | -7  | 0   | 21    | -30   | -250 | -95  | -488 | -329 | -64  |

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).

c These results are displayed with calendar year - year type sorting.

**Table 5B1-2-3a. Hamilton City Diversion - Glenn Colusa Canal, No Action Alternative 011221, Monthly Diversion (cfs)**

| Statistic                             | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May   | Jun   | Jul   | Aug   | Sep |
|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|-----|
| <b>Probability of Exceedance</b>      |     |     |     |     |     |     |     |       |       |       |       |     |
| 10%                                   | 610 | 798 | 292 | 126 | 68  | 67  | 551 | 2,340 | 2,710 | 2,633 | 2,241 | 633 |
| 20%                                   | 605 | 774 | 270 | 86  | 68  | 50  | 525 | 2,296 | 2,620 | 2,611 | 2,219 | 633 |
| 30%                                   | 598 | 750 | 249 | 75  | 68  | 36  | 493 | 2,260 | 2,543 | 2,563 | 2,093 | 632 |
| 40%                                   | 586 | 699 | 224 | 75  | 68  | 23  | 466 | 2,245 | 2,483 | 2,527 | 2,065 | 629 |
| 50%                                   | 574 | 679 | 199 | 75  | 68  | 12  | 451 | 2,212 | 2,410 | 2,521 | 1,999 | 614 |
| 60%                                   | 556 | 649 | 181 | 75  | 68  | 11  | 423 | 2,164 | 2,347 | 2,489 | 1,924 | 602 |
| 70%                                   | 541 | 606 | 159 | 75  | 66  | 11  | 410 | 2,079 | 2,297 | 2,443 | 1,844 | 593 |
| 80%                                   | 516 | 575 | 158 | 75  | 66  | 11  | 380 | 2,025 | 2,258 | 2,443 | 1,812 | 536 |
| 90%                                   | 451 | 546 | 158 | 64  | 52  | 11  | 296 | 1,858 | 2,223 | 2,267 | 1,783 | 493 |
| <b>Long Term</b>                      |     |     |     |     |     |     |     |       |       |       |       |     |
| Full Simulation Period <sup>a</sup>   | 556 | 674 | 209 | 82  | 67  | 31  | 435 | 2,142 | 2,427 | 2,490 | 1,994 | 591 |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |     |     |     |     |     |       |       |       |       |     |
| Wet (32%)                             | 575 | 695 | 229 | 78  | 67  | 22  | 378 | 2,117 | 2,238 | 2,538 | 2,190 | 621 |
| Above Normal (15%)                    | 560 | 678 | 207 | 73  | 65  | 17  | 426 | 2,085 | 2,350 | 2,518 | 2,009 | 615 |
| Below Normal (17%)                    | 561 | 696 | 201 | 90  | 68  | 34  | 450 | 2,188 | 2,557 | 2,617 | 2,026 | 578 |
| Dry (22%)                             | 571 | 662 | 213 | 85  | 68  | 32  | 460 | 2,186 | 2,662 | 2,467 | 1,843 | 589 |
| Critical (15%)                        | 484 | 616 | 170 | 89  | 64  | 62  | 512 | 2,133 | 2,412 | 2,243 | 1,745 | 517 |

**Table 5B1-2-3b. Hamilton City Diversion - Glenn Colusa Canal, Alternative 2 011221, Monthly Diversion (cfs)**

| Statistic                             | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May   | Jun   | Jul   | Aug   | Sep |
|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|-----|
| <b>Probability of Exceedance</b>      |     |     |     |     |     |     |     |       |       |       |       |     |
| 10%                                   | 612 | 782 | 296 | 673 | 786 | 808 | 584 | 2,373 | 2,710 | 2,633 | 2,241 | 633 |
| 20%                                   | 601 | 749 | 268 | 140 | 224 | 313 | 547 | 2,313 | 2,597 | 2,614 | 2,238 | 633 |
| 30%                                   | 574 | 708 | 237 | 112 | 69  | 192 | 523 | 2,281 | 2,542 | 2,563 | 2,093 | 630 |
| 40%                                   | 551 | 673 | 214 | 77  | 68  | 84  | 490 | 2,245 | 2,484 | 2,525 | 2,065 | 627 |
| 50%                                   | 520 | 637 | 190 | 75  | 68  | 54  | 456 | 2,208 | 2,418 | 2,521 | 1,982 | 596 |
| 60%                                   | 477 | 590 | 173 | 75  | 68  | 35  | 426 | 2,132 | 2,359 | 2,468 | 1,924 | 541 |
| 70%                                   | 425 | 560 | 158 | 75  | 68  | 15  | 414 | 2,049 | 2,309 | 2,352 | 1,824 | 486 |
| 80%                                   | 386 | 543 | 158 | 75  | 67  | 11  | 392 | 1,967 | 2,266 | 2,202 | 1,714 | 428 |
| 90%                                   | 336 | 466 | 138 | 75  | 66  | 11  | 321 | 1,791 | 2,203 | 1,427 | 1,026 | 347 |
| <b>Long Term</b>                      |     |     |     |     |     |     |     |       |       |       |       |     |
| Full Simulation Period <sup>a</sup>   | 538 | 628 | 235 | 212 | 229 | 237 | 614 | 2,136 | 2,419 | 2,316 | 1,887 | 539 |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |     |     |     |     |     |       |       |       |       |     |
| Wet (32%)                             | 738 | 693 | 225 | 316 | 445 | 253 | 825 | 2,230 | 2,363 | 2,578 | 2,235 | 620 |
| Above Normal (15%)                    | 560 | 624 | 187 | 447 | 222 | 570 | 583 | 2,173 | 2,419 | 2,512 | 2,009 | 614 |
| Below Normal (17%)                    | 415 | 610 | 289 | 90  | 139 | 138 | 583 | 2,191 | 2,547 | 2,609 | 1,987 | 522 |
| Dry (22%)                             | 436 | 587 | 296 | 86  | 103 | 171 | 437 | 2,086 | 2,405 | 1,928 | 1,487 | 436 |
| Critical (15%)                        | 381 | 576 | 152 | 86  | 64  | 83  | 490 | 1,906 | 2,411 | 1,791 | 1,496 | 459 |

**Table 5B1-2-3c. Hamilton City Diversion - Glenn Colusa Canal, Alternative 2 011221 minus No Action Alternative 011221, Monthly Diversion (cfs)**

| Statistic                             | Oct  | Nov | Dec | Jan | Feb | Mar | Apr | May  | Jun  | Jul  | Aug  | Sep  |
|---------------------------------------|------|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| <b>Probability of Exceedance</b>      |      |     |     |     |     |     |     |      |      |      |      |      |
| 10%                                   | 2    | -16 | 4   | 547 | 717 | 742 | 32  | 32   | 0    | 0    | 0    | 0    |
| 20%                                   | -4   | -25 | -1  | 53  | 156 | 263 | 22  | 17   | -23  | 3    | 19   | 0    |
| 30%                                   | -24  | -42 | -11 | 38  | 1   | 156 | 30  | 21   | -1   | 0    | 0    | -2   |
| 40%                                   | -35  | -26 | -9  | 2   | 0   | 61  | 23  | 0    | 1    | -2   | 0    | -3   |
| 50%                                   | -53  | -42 | -9  | 0   | 0   | 43  | 6   | -4   | 7    | 0    | -17  | -17  |
| 60%                                   | -79  | -59 | -8  | 0   | 0   | 24  | 3   | -32  | 13   | -22  | 0    | -61  |
| 70%                                   | -116 | -45 | -1  | 0   | 2   | 3   | 4   | -30  | 12   | -91  | -20  | -107 |
| 80%                                   | -130 | -32 | 0   | 0   | 0   | 0   | 12  | -57  | 8    | -241 | -97  | -109 |
| 90%                                   | -115 | -80 | -20 | 11  | 14  | 0   | 25  | -67  | -20  | -839 | -757 | -146 |
| <b>Long Term</b>                      |      |     |     |     |     |     |     |      |      |      |      |      |
| Full Simulation Period <sup>a</sup>   | -18  | -45 | 26  | 130 | 163 | 206 | 179 | -6   | -8   | -174 | -107 | -52  |
| <b>Water Year Types<sup>b,c</sup></b> |      |     |     |     |     |     |     |      |      |      |      |      |
| Wet (32%)                             | 163  | -2  | -4  | 238 | 378 | 231 | 446 | 114  | 125  | 40   | 45   | -1   |
| Above Normal (15%)                    | 0    | -54 | -20 | 374 | 157 | 553 | 157 | 88   | 69   | -5   | 0    | -1   |
| Below Normal (17%)                    | -146 | -86 | 88  | 0   | 72  | 104 | 133 | 3    | -10  | -9   | -39  | -56  |
| Dry (22%)                             | -135 | -75 | 83  | 1   | 35  | 139 | -23 | -100 | -257 | -538 | -355 | -152 |
| Critical (15%)                        | -103 | -40 | -18 | -3  | 0   | 21  | -22 | -227 | -1   | -453 | -249 | -58  |

a Based on the 82-year simulation period.

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

c These results are displayed with calendar year - year type sorting.

**Table 5B1-2-4a. Hamilton City Diversion - Glenn Colusa Canal, No Action Alternative 011221, Monthly Diversion (cfs)**

| Statistic                             | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May   | Jun   | Jul   | Aug   | Sep |
|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|-----|
| <b>Probability of Exceedance</b>      |     |     |     |     |     |     |     |       |       |       |       |     |
| 10%                                   | 610 | 798 | 292 | 126 | 68  | 67  | 551 | 2,340 | 2,710 | 2,633 | 2,241 | 633 |
| 20%                                   | 605 | 774 | 270 | 86  | 68  | 50  | 525 | 2,296 | 2,620 | 2,611 | 2,219 | 633 |
| 30%                                   | 598 | 750 | 249 | 75  | 68  | 36  | 493 | 2,260 | 2,543 | 2,563 | 2,093 | 632 |
| 40%                                   | 586 | 699 | 224 | 75  | 68  | 23  | 466 | 2,245 | 2,483 | 2,527 | 2,065 | 629 |
| 50%                                   | 574 | 679 | 199 | 75  | 68  | 12  | 451 | 2,212 | 2,410 | 2,521 | 1,999 | 614 |
| 60%                                   | 556 | 649 | 181 | 75  | 68  | 11  | 423 | 2,164 | 2,347 | 2,489 | 1,924 | 602 |
| 70%                                   | 541 | 606 | 159 | 75  | 66  | 11  | 410 | 2,079 | 2,297 | 2,443 | 1,844 | 593 |
| 80%                                   | 516 | 575 | 158 | 75  | 66  | 11  | 380 | 2,025 | 2,258 | 2,443 | 1,812 | 536 |
| 90%                                   | 451 | 546 | 158 | 64  | 52  | 11  | 296 | 1,858 | 2,223 | 2,267 | 1,783 | 493 |
| <b>Long Term</b>                      |     |     |     |     |     |     |     |       |       |       |       |     |
| Full Simulation Period <sup>a</sup>   | 556 | 674 | 209 | 82  | 67  | 31  | 435 | 2,142 | 2,427 | 2,490 | 1,994 | 591 |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |     |     |     |     |     |       |       |       |       |     |
| Wet (32%)                             | 575 | 695 | 229 | 78  | 67  | 22  | 378 | 2,117 | 2,238 | 2,538 | 2,190 | 621 |
| Above Normal (15%)                    | 560 | 678 | 207 | 73  | 65  | 17  | 426 | 2,085 | 2,350 | 2,518 | 2,009 | 615 |
| Below Normal (17%)                    | 561 | 696 | 201 | 90  | 68  | 34  | 450 | 2,188 | 2,557 | 2,617 | 2,026 | 578 |
| Dry (22%)                             | 571 | 662 | 213 | 85  | 68  | 32  | 460 | 2,186 | 2,662 | 2,467 | 1,843 | 589 |
| Critical (15%)                        | 484 | 616 | 170 | 89  | 64  | 62  | 512 | 2,133 | 2,412 | 2,243 | 1,745 | 517 |

**Table 5B1-2-4b. Hamilton City Diversion - Glenn Colusa Canal, Alternative 3 020121, Monthly Diversion (cfs)**

| Statistic                             | Oct | Nov | Dec | Jan | Feb | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep |
|---------------------------------------|-----|-----|-----|-----|-----|-------|-------|-------|-------|-------|-------|-----|
| <b>Probability of Exceedance</b>      |     |     |     |     |     |       |       |       |       |       |       |     |
| 10%                                   | 612 | 787 | 297 | 690 | 911 | 1,426 | 2,207 | 2,395 | 2,697 | 2,617 | 2,241 | 633 |
| 20%                                   | 603 | 753 | 270 | 140 | 550 | 342   | 562   | 2,295 | 2,577 | 2,538 | 2,238 | 633 |
| 30%                                   | 590 | 716 | 240 | 118 | 125 | 270   | 539   | 2,259 | 2,478 | 2,521 | 2,093 | 630 |
| 40%                                   | 554 | 680 | 221 | 79  | 68  | 148   | 520   | 2,222 | 2,392 | 2,467 | 2,065 | 628 |
| 50%                                   | 515 | 637 | 194 | 75  | 68  | 73    | 469   | 2,142 | 2,304 | 2,333 | 1,982 | 608 |
| 60%                                   | 484 | 588 | 173 | 75  | 68  | 52    | 442   | 2,046 | 2,261 | 2,189 | 1,854 | 573 |
| 70%                                   | 421 | 559 | 158 | 75  | 68  | 32    | 420   | 1,944 | 2,208 | 1,565 | 1,779 | 492 |
| 80%                                   | 372 | 533 | 158 | 75  | 67  | 12    | 404   | 1,797 | 1,931 | 1,446 | 1,641 | 451 |
| 90%                                   | 337 | 466 | 146 | 75  | 66  | 11    | 354   | 1,319 | 1,638 | 1,400 | 1,026 | 351 |
| <b>Long Term</b>                      |     |     |     |     |     |       |       |       |       |       |       |     |
| Full Simulation Period <sup>a</sup>   | 564 | 633 | 250 | 228 | 293 | 326   | 703   | 2,063 | 2,264 | 2,100 | 1,849 | 557 |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |     |     |     |       |       |       |       |       |       |     |
| Wet (32%)                             | 742 | 693 | 225 | 364 | 561 | 511   | 1,101 | 2,314 | 2,395 | 2,577 | 2,236 | 656 |
| Above Normal (15%)                    | 623 | 630 | 281 | 449 | 351 | 596   | 583   | 2,173 | 2,084 | 1,547 | 1,751 | 610 |
| Below Normal (17%)                    | 423 | 610 | 289 | 90  | 187 | 134   | 583   | 1,942 | 2,128 | 2,260 | 1,923 | 542 |
| Dry (22%)                             | 449 | 597 | 303 | 86  | 103 | 195   | 441   | 1,900 | 2,248 | 1,848 | 1,509 | 461 |
| Critical (15%)                        | 454 | 587 | 146 | 85  | 60  | 76    | 491   | 1,795 | 2,339 | 1,809 | 1,530 | 450 |

**Table 5B1-2-4c. Hamilton City Diversion - Glenn Colusa Canal, Alternative 3 020121 minus No Action Alternative 011221, Monthly Diversion (cfs)**

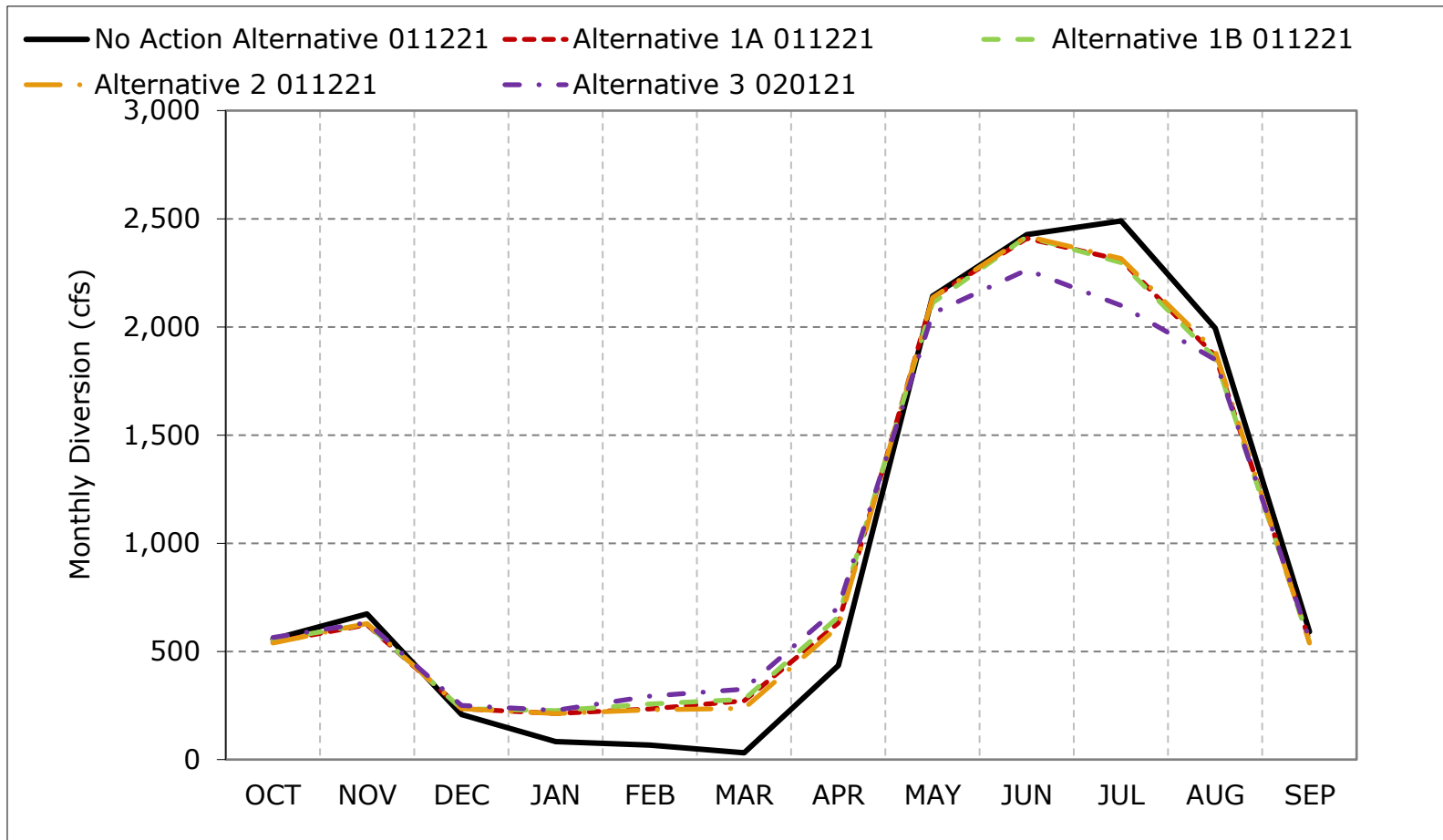
| Statistic                             | Oct  | Nov | Dec | Jan | Feb | Mar   | Apr   | May  | Jun  | Jul  | Aug  | Sep  |
|---------------------------------------|------|-----|-----|-----|-----|-------|-------|------|------|------|------|------|
| <b>Probability of Exceedance</b>      |      |     |     |     |     |       |       |      |      |      |      |      |
| 10%                                   | 2    | -11 | 6   | 564 | 843 | 1,360 | 1,655 | 55   | -13  | -16  | 0    | 0    |
| 20%                                   | -2   | -22 | 0   | 54  | 481 | 293   | 37    | -1   | -44  | -73  | 19   | 0    |
| 30%                                   | -8   | -34 | -8  | 44  | 56  | 234   | 46    | -1   | -65  | -41  | 0    | -2   |
| 40%                                   | -32  | -19 | -2  | 4   | 0   | 125   | 53    | -23  | -91  | -60  | 0    | -1   |
| 50%                                   | -59  | -42 | -6  | 0   | 0   | 61    | 19    | -70  | -106 | -189 | -17  | -6   |
| 60%                                   | -73  | -61 | -8  | 0   | 0   | 40    | 18    | -118 | -86  | -300 | -70  | -29  |
| 70%                                   | -120 | -47 | -1  | 0   | 2   | 21    | 10    | -135 | -88  | -877 | -65  | -101 |
| 80%                                   | -144 | -42 | 0   | 0   | 0   | 1     | 24    | -228 | -328 | -997 | -171 | -85  |
| 90%                                   | -114 | -80 | -12 | 11  | 14  | 0     | 58    | -539 | -585 | -867 | -757 | -142 |
| <b>Long Term</b>                      |      |     |     |     |     |       |       |      |      |      |      |      |
| Full Simulation Period <sup>a</sup>   | 7    | -41 | 41  | 145 | 226 | 295   | 268   | -79  | -163 | -390 | -145 | -34  |
| <b>Water Year Types<sup>b,c</sup></b> |      |     |     |     |     |       |       |      |      |      |      |      |
| Wet (32%)                             | 167  | -2  | -4  | 286 | 494 | 490   | 723   | 197  | 158  | 39   | 46   | 35   |
| Above Normal (15%)                    | 63   | -47 | 74  | 376 | 286 | 579   | 157   | 89   | -265 | -971 | -258 | -5   |
| Below Normal (17%)                    | -138 | -86 | 88  | 0   | 119 | 100   | 133   | -246 | -429 | -357 | -103 | -36  |
| Dry (22%)                             | -122 | -65 | 90  | 1   | 35  | 163   | -19   | -287 | -414 | -619 | -334 | -128 |
| Critical (15%)                        | -30  | -29 | -24 | -4  | -4  | 14    | -20   | -338 | -72  | -434 | -215 | -67  |

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).

c These results are displayed with calendar year - year type sorting.

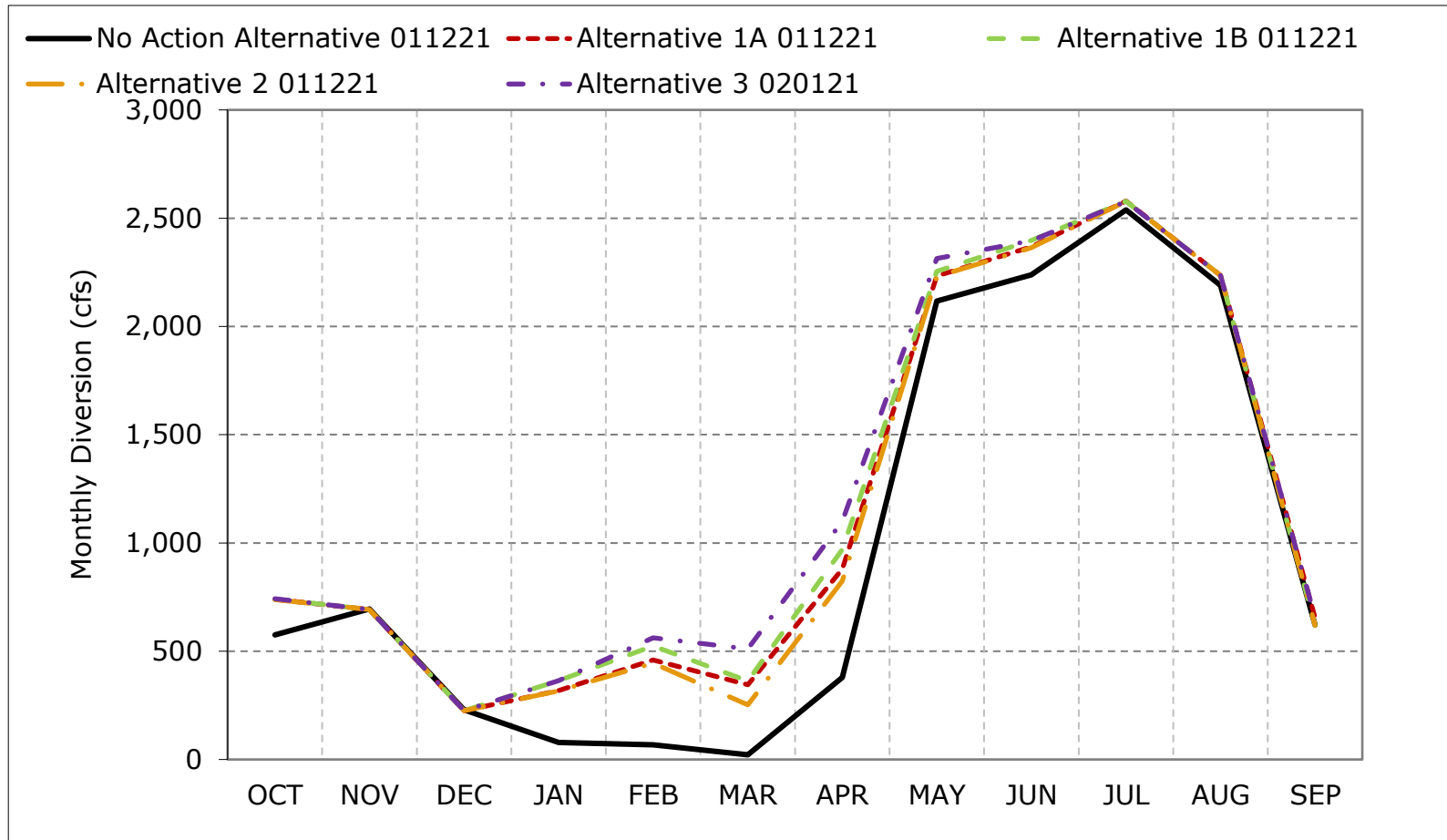
**Figure 5B1-2-1. Hamilton City Diversion - Glenn Colusa Canal, Long-Term Average Diversion**



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

\*These results are displayed with calendar year - year type sorting.

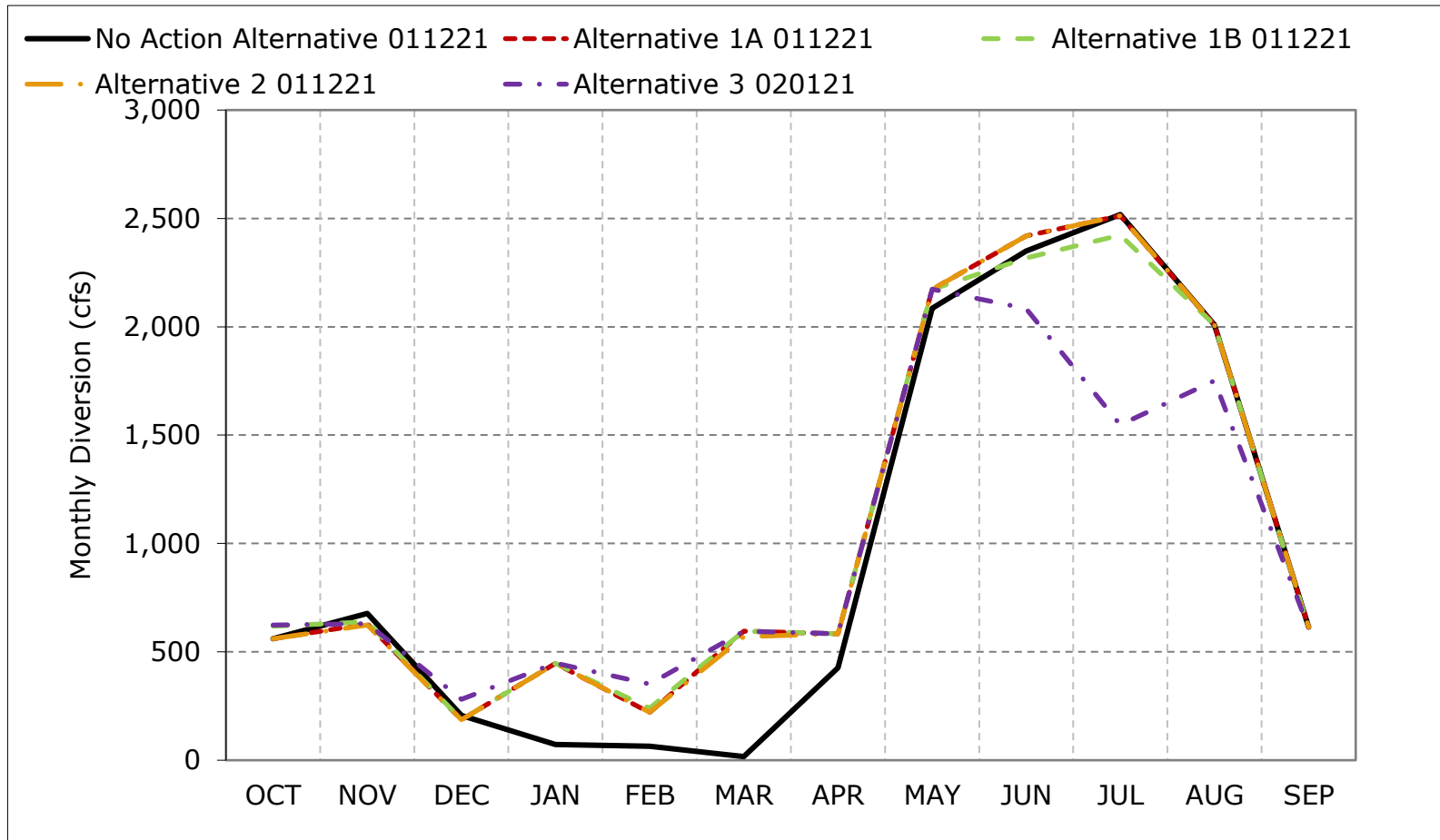
**Figure 5B1-2-2. Hamilton City Diversion - Glenn Colusa Canal, Wet Year Average Diversion**



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

\*These results are displayed with calendar year - year type sorting.

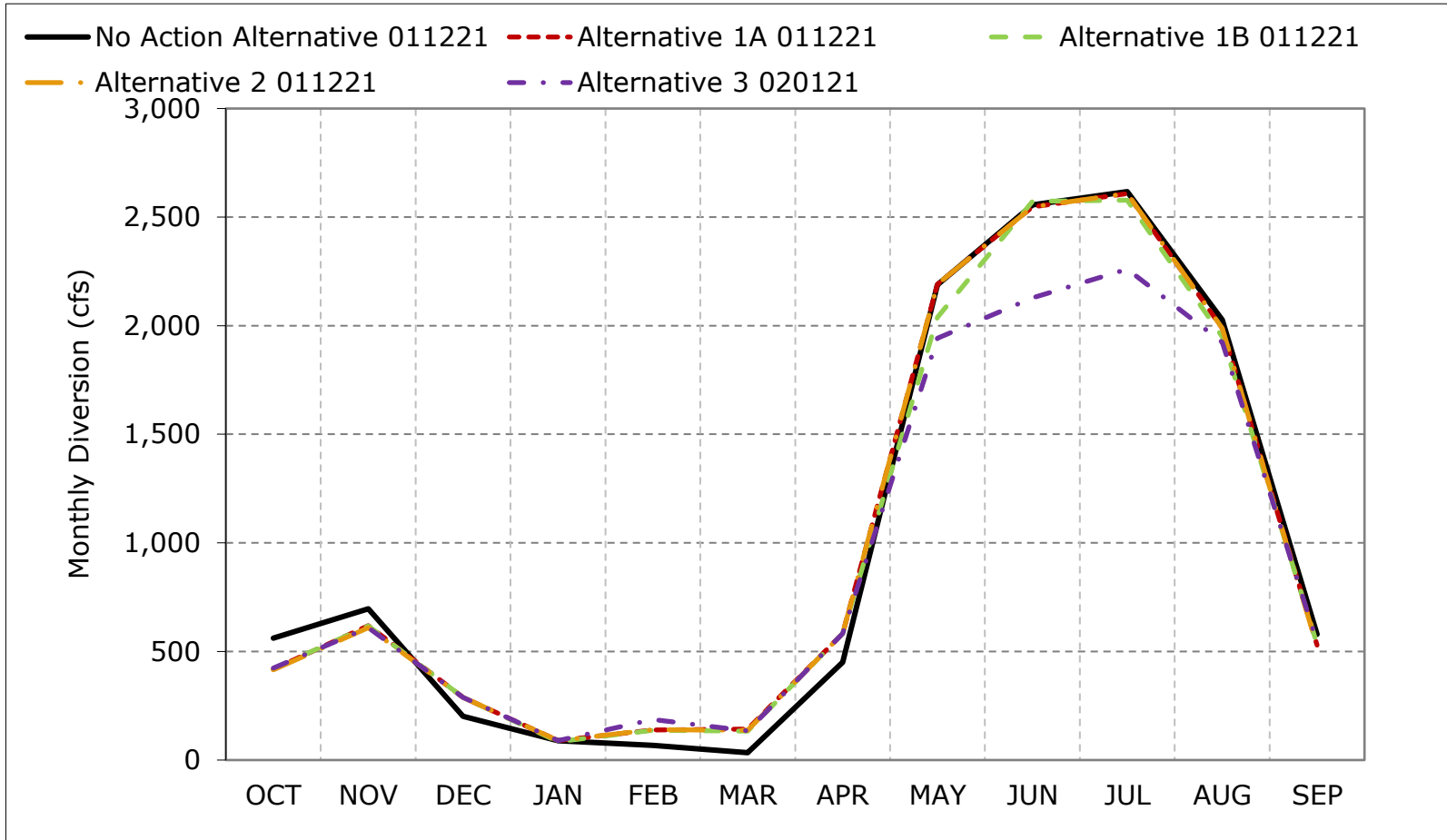
**Figure 5B1-2-3. Hamilton City Diversion - Glenn Colusa Canal, Above Normal Year Average Diversion**



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

\*These results are displayed with calendar year - year type sorting.

**Figure 5B1-2-4. Hamilton City Diversion - Glenn Colusa Canal, Below Normal Year Average Diversion**

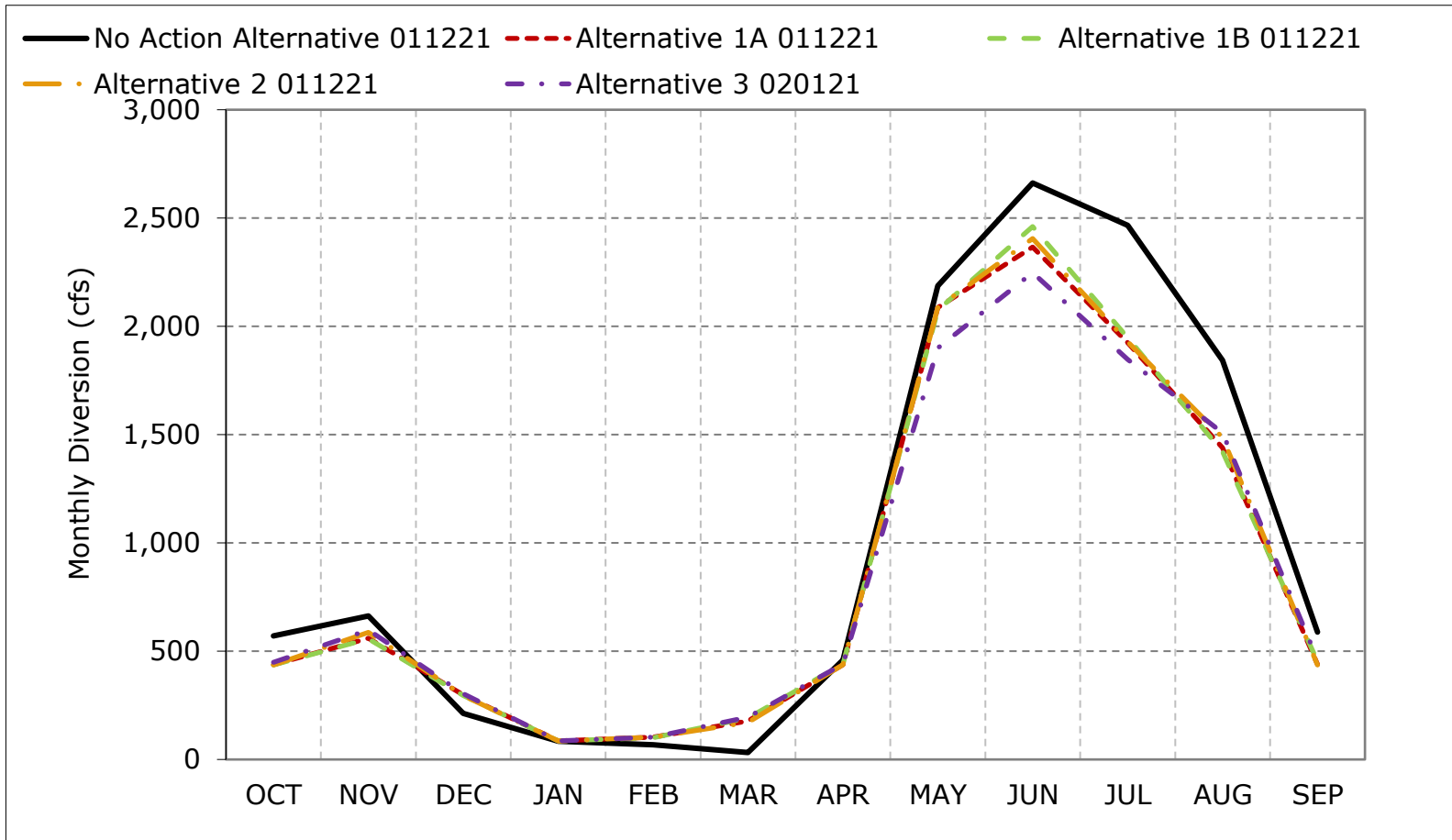


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

\*These results are displayed with calendar year - year type sorting.



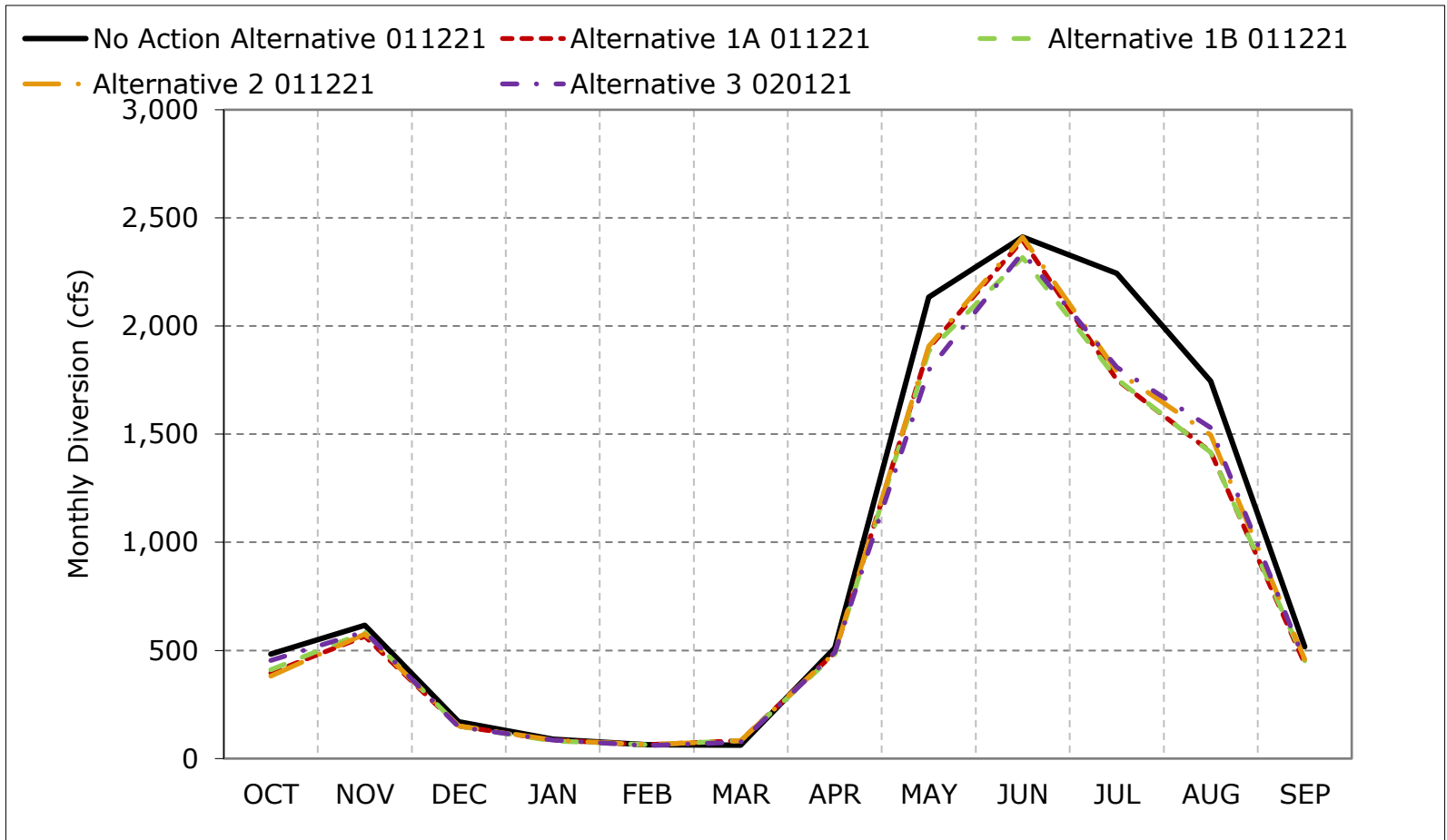
**Figure 5B1-2-5. Hamilton City Diversion - Glenn Colusa Canal, Dry Year Average Diversion**



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

\*These results are displayed with calendar year - year type sorting.

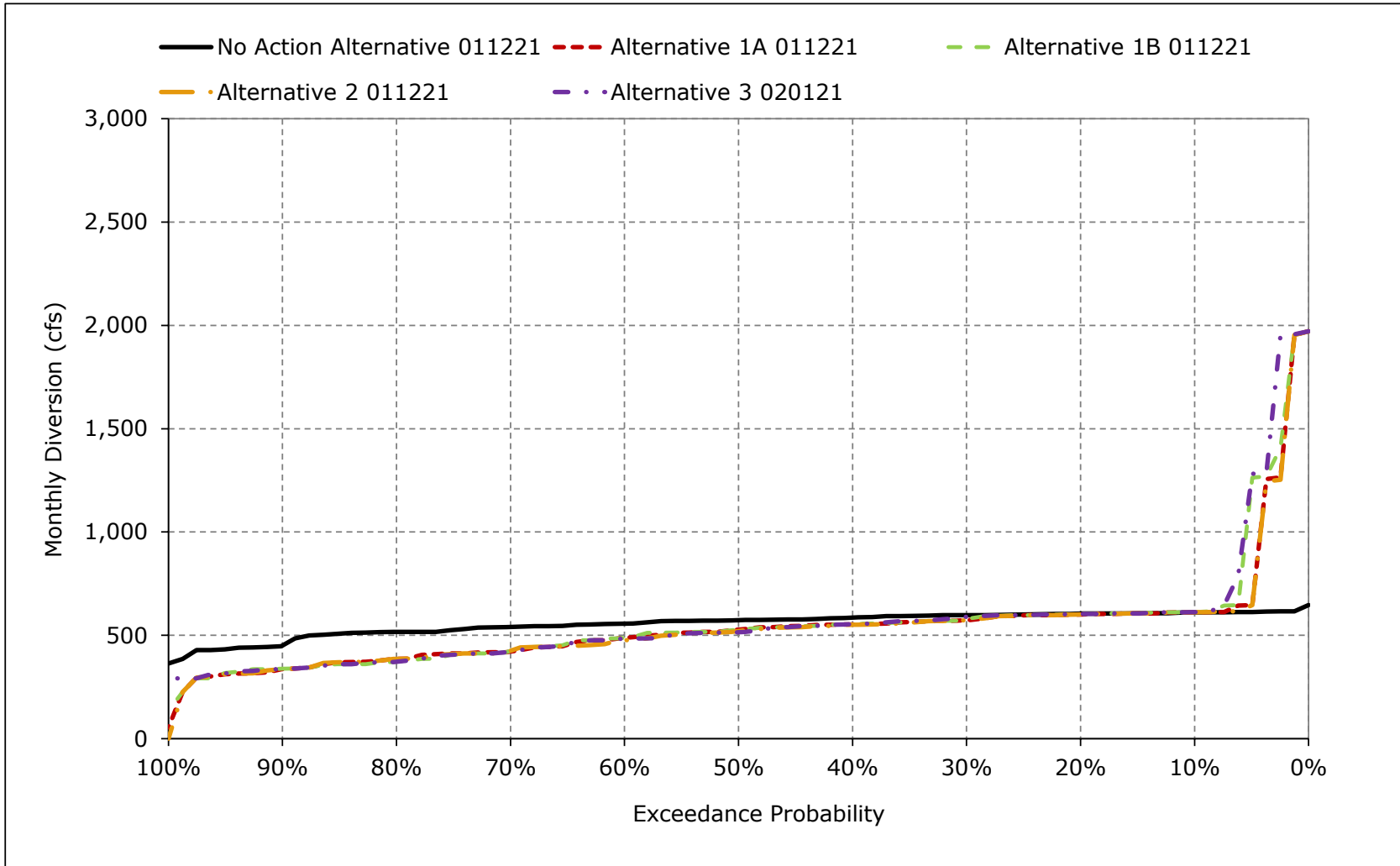
**Figure 5B1-2-6. Hamilton City Diversion - Glenn Colusa Canal, Critical Year Average Diversion**



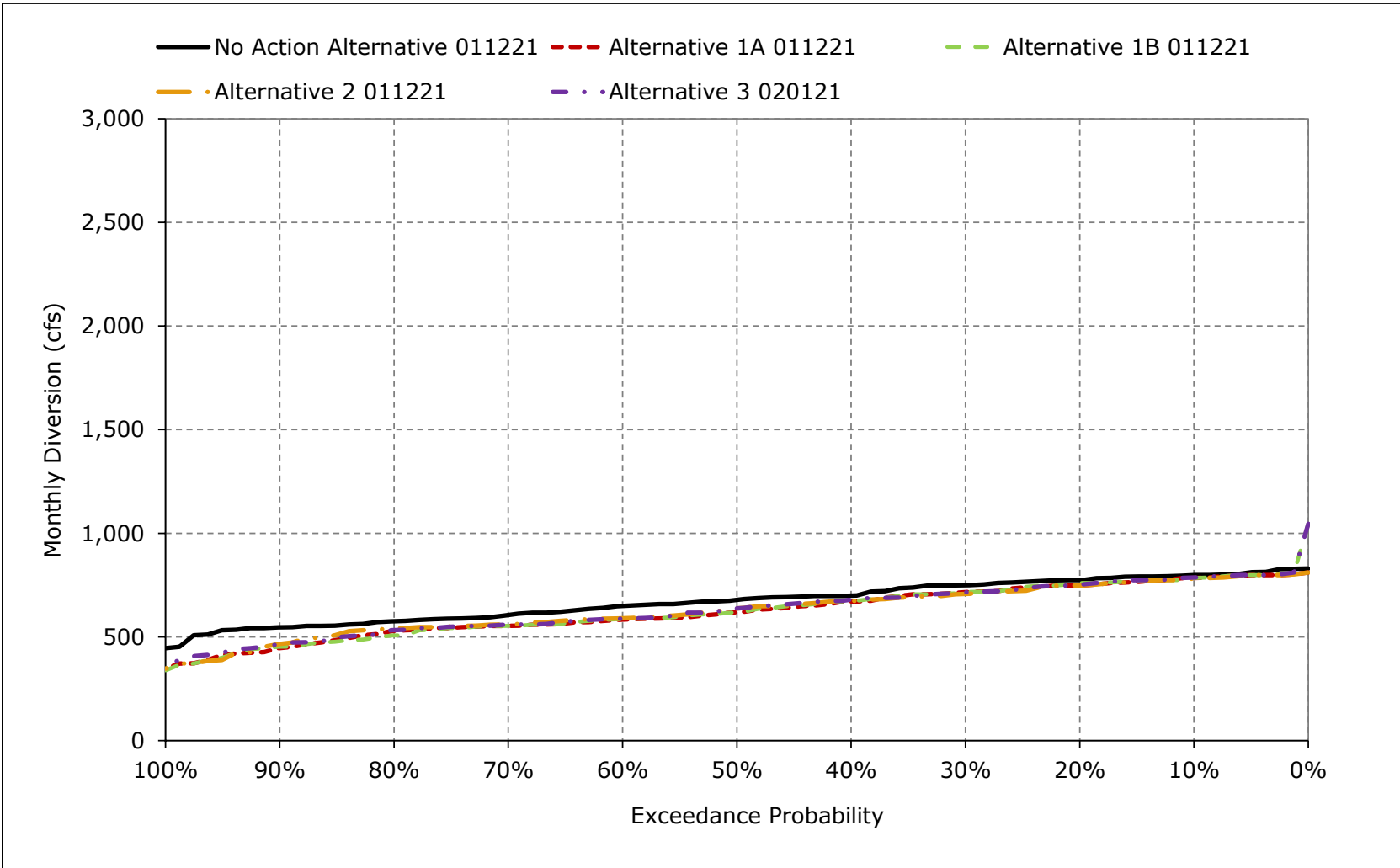
\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

\*These results are displayed with calendar year - year type sorting.

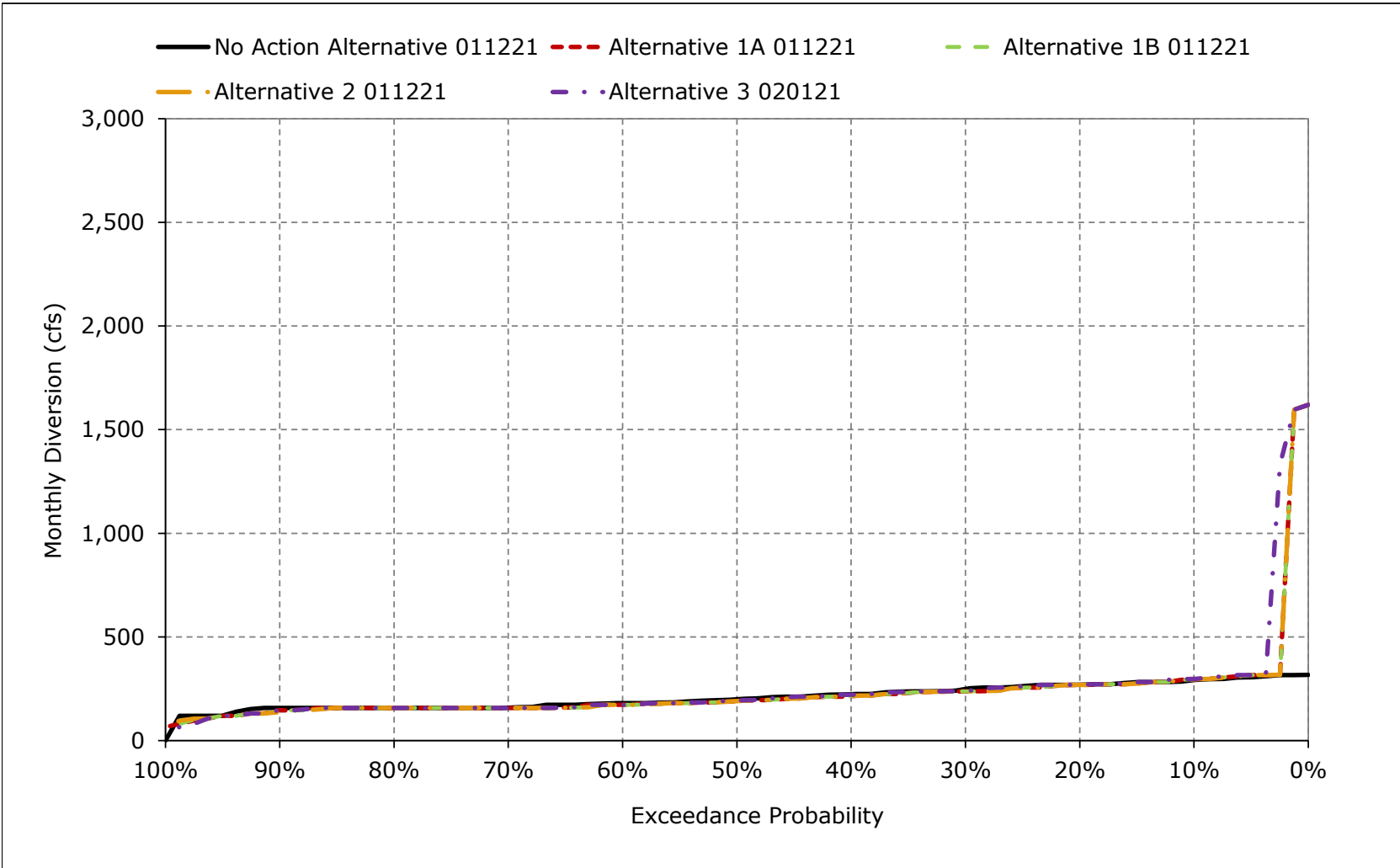
**Figure 5B1-2-7. Hamilton City Diversion - Glenn Colusa Canal, October**



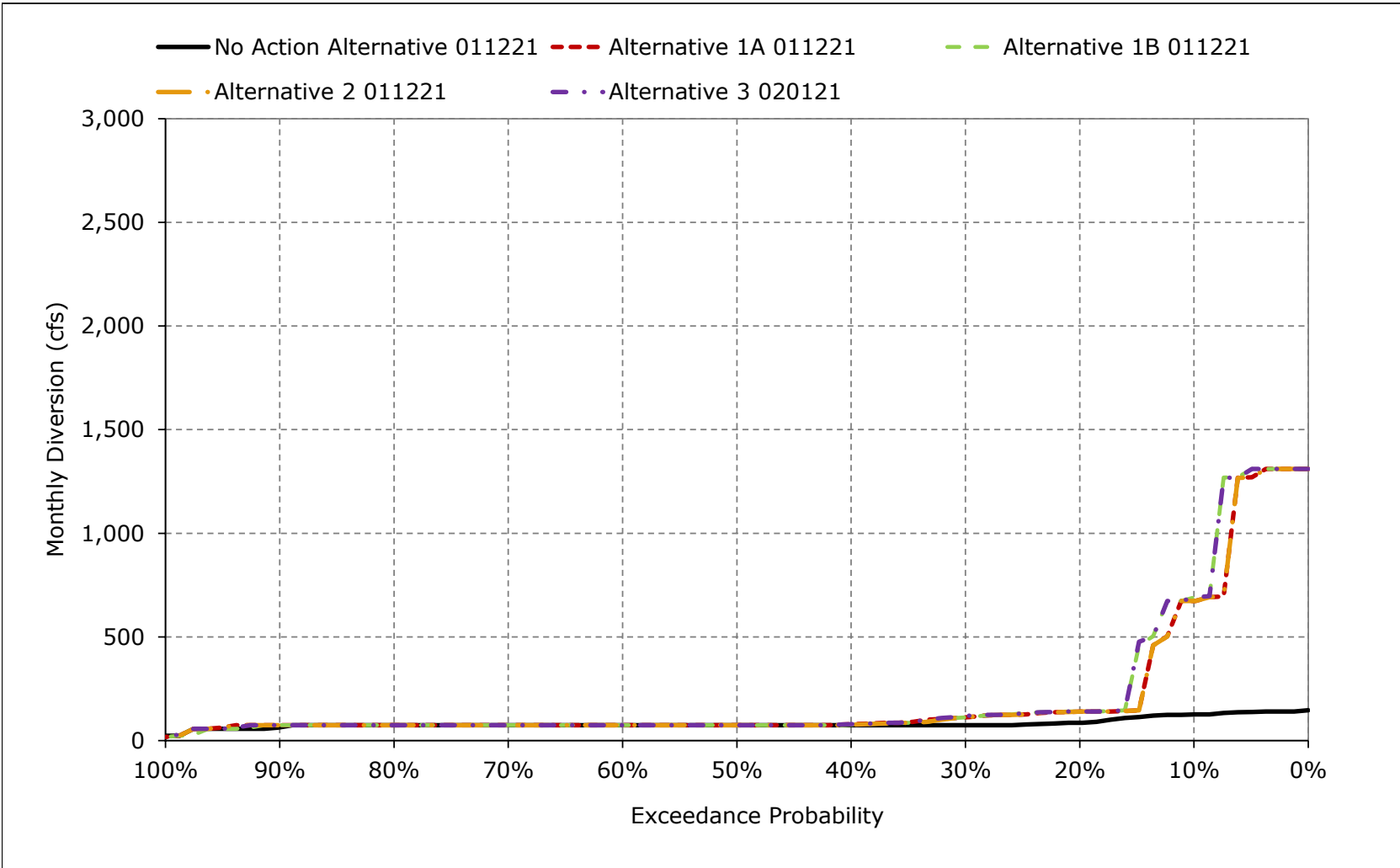
**Figure 5B1-2-8. Hamilton City Diversion - Glenn Colusa Canal, November**



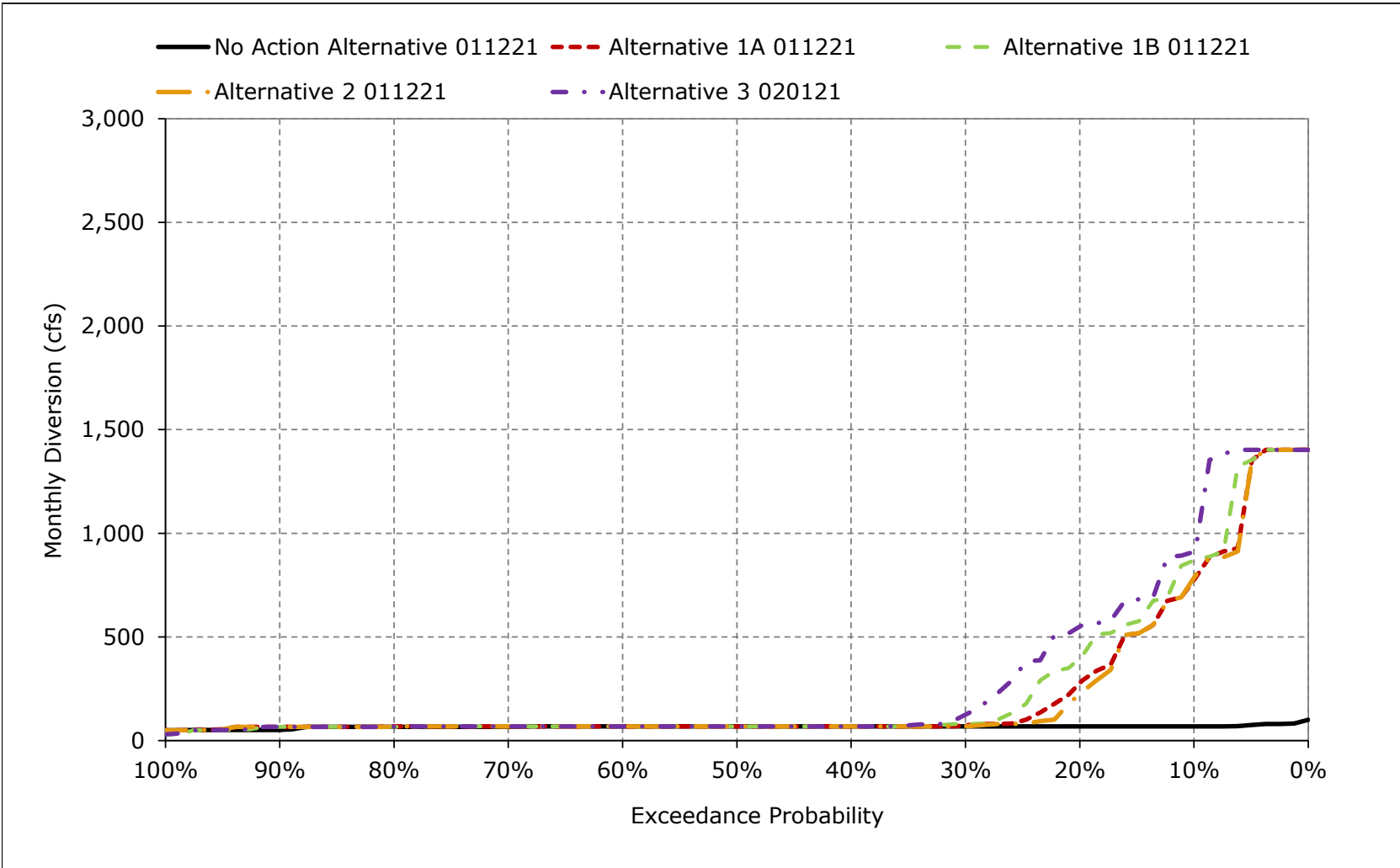
**Figure 5B1-2-9. Hamilton City Diversion - Glenn Colusa Canal, December**



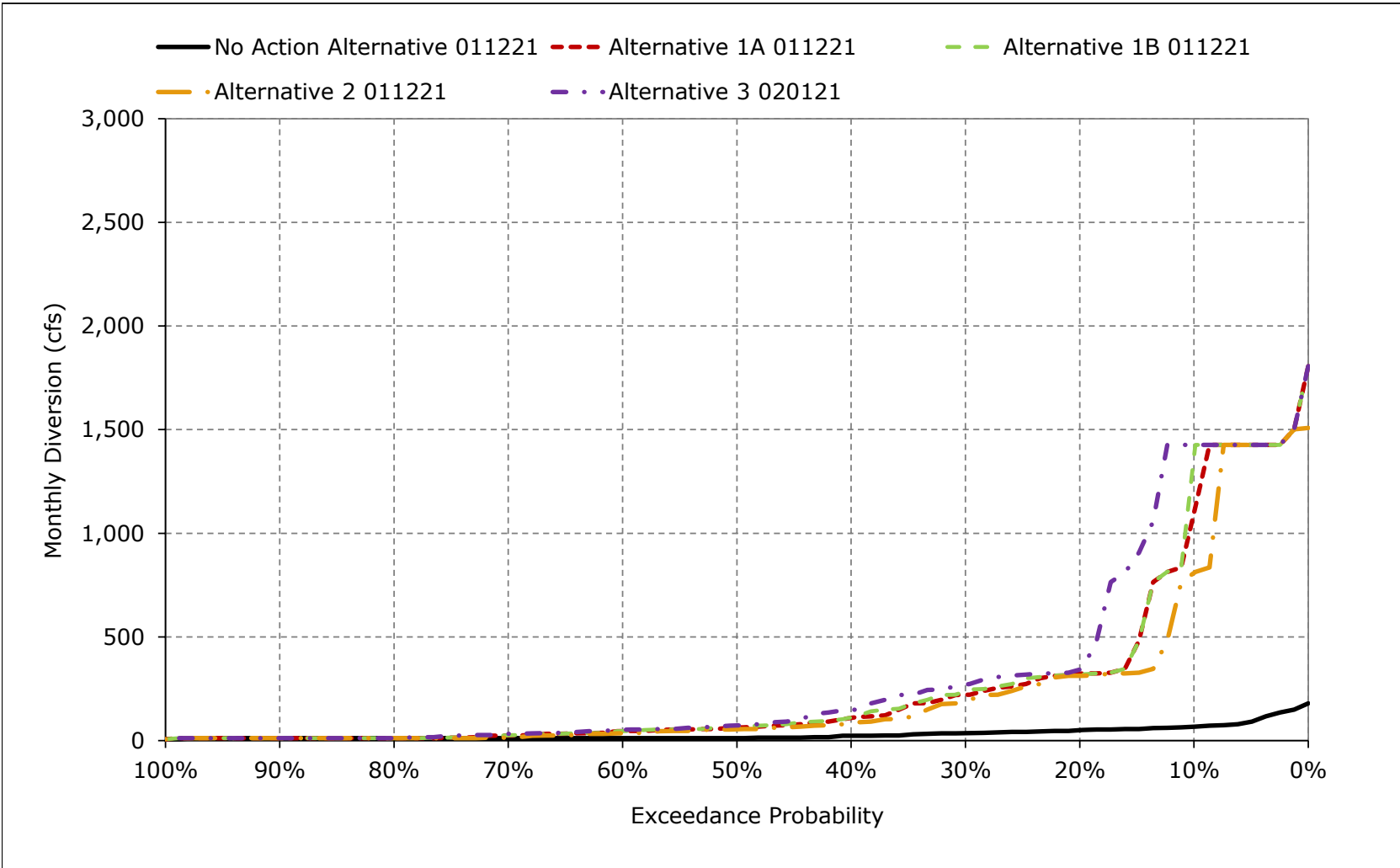
**Figure 5B1-2-10. Hamilton City Diversion - Glenn Colusa Canal, January**



**Figure 5B1-2-11. Hamilton City Diversion - Glenn Colusa Canal, February**

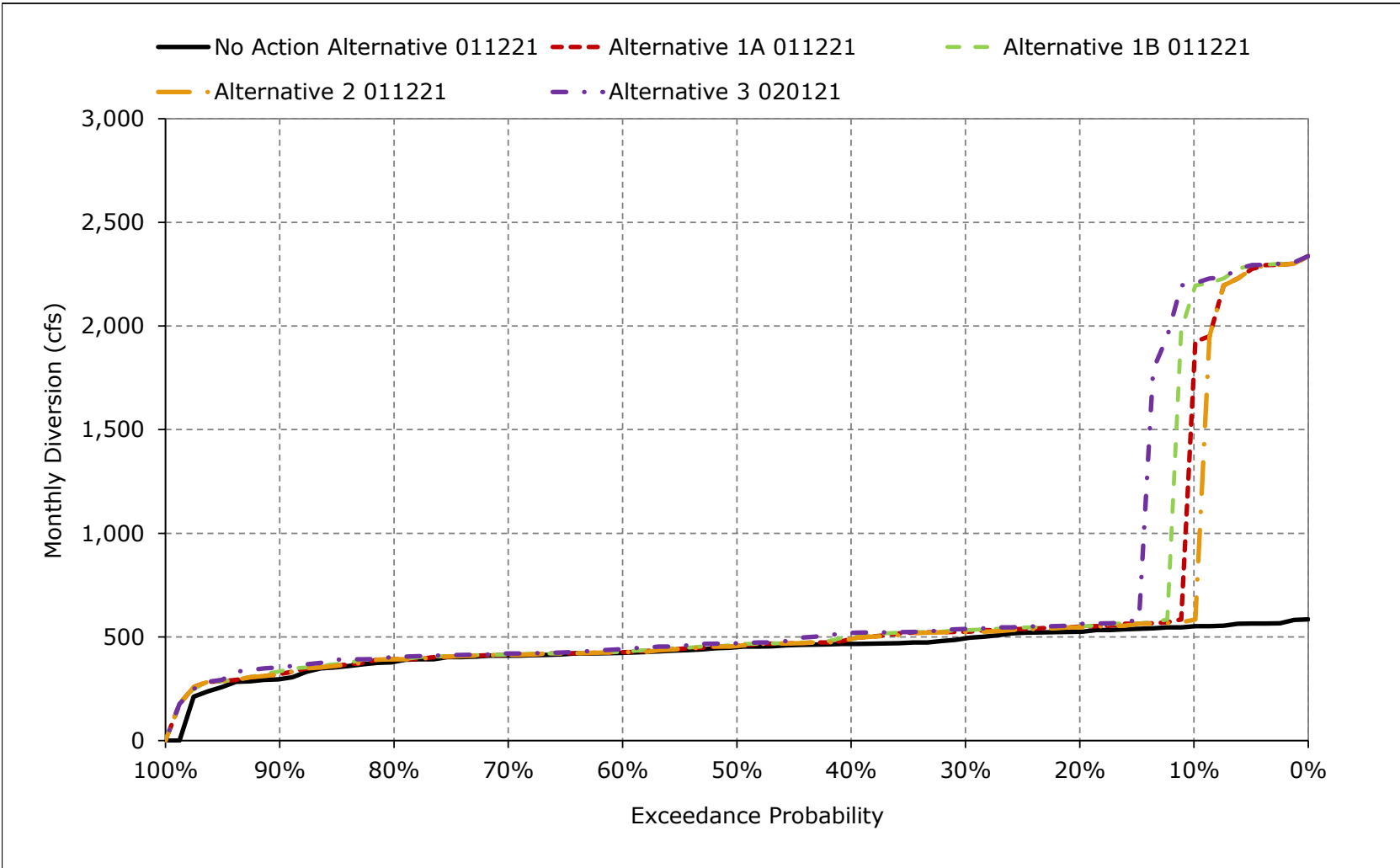


**Figure 5B1-2-12. Hamilton City Diversion - Glenn Colusa Canal, March**

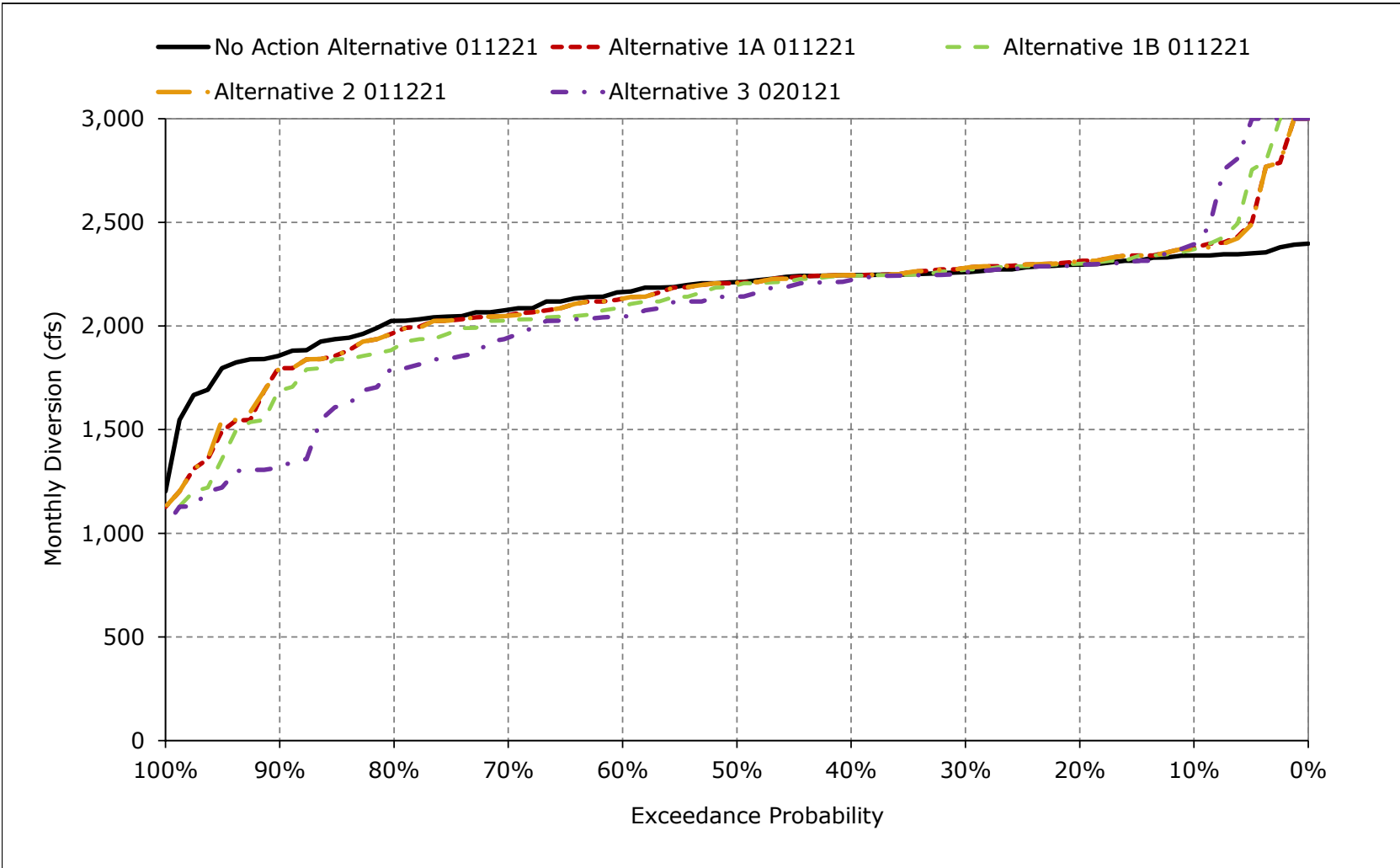




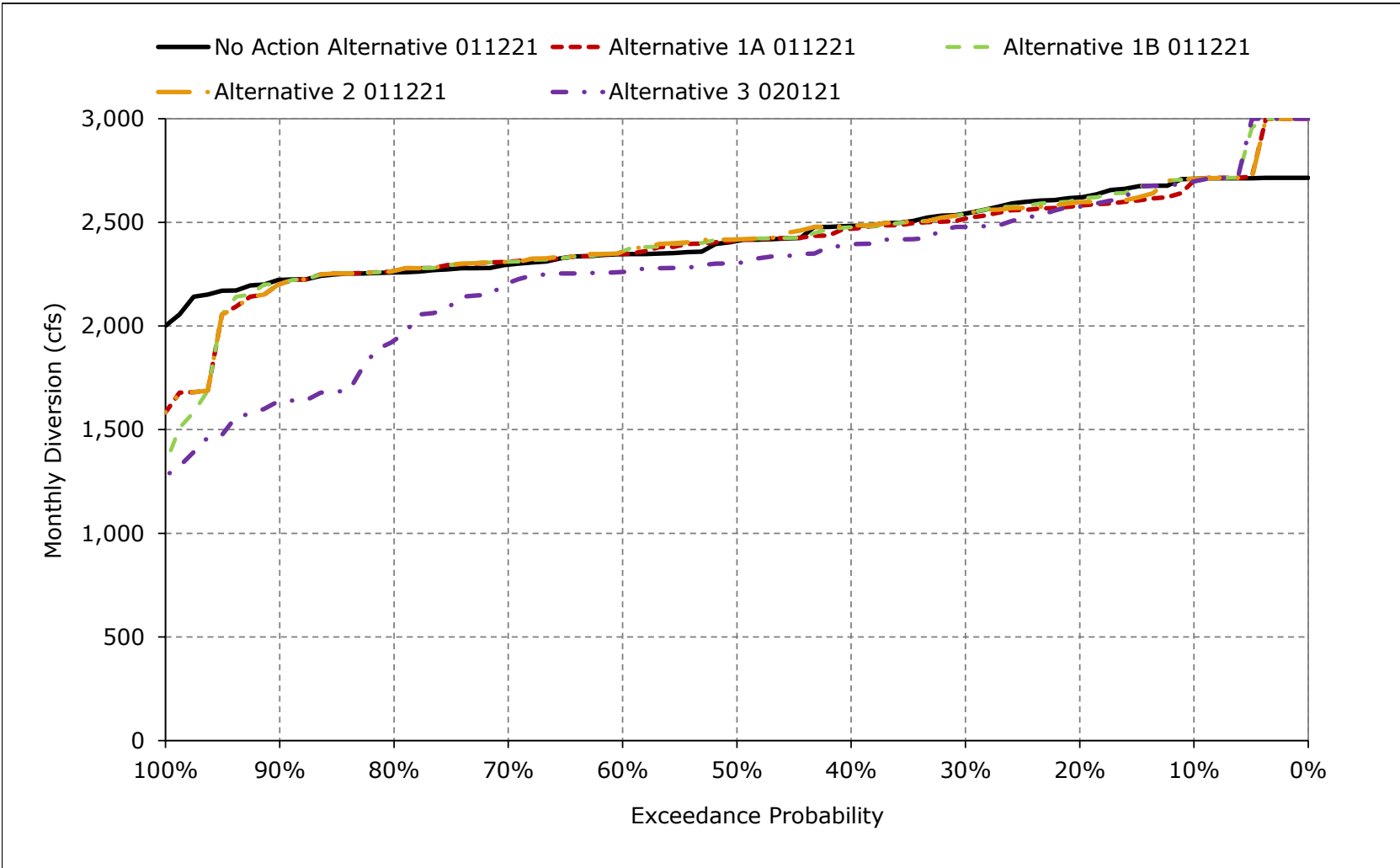
**Figure 5B1-2-13. Hamilton City Diversion - Glenn Colusa Canal, April**



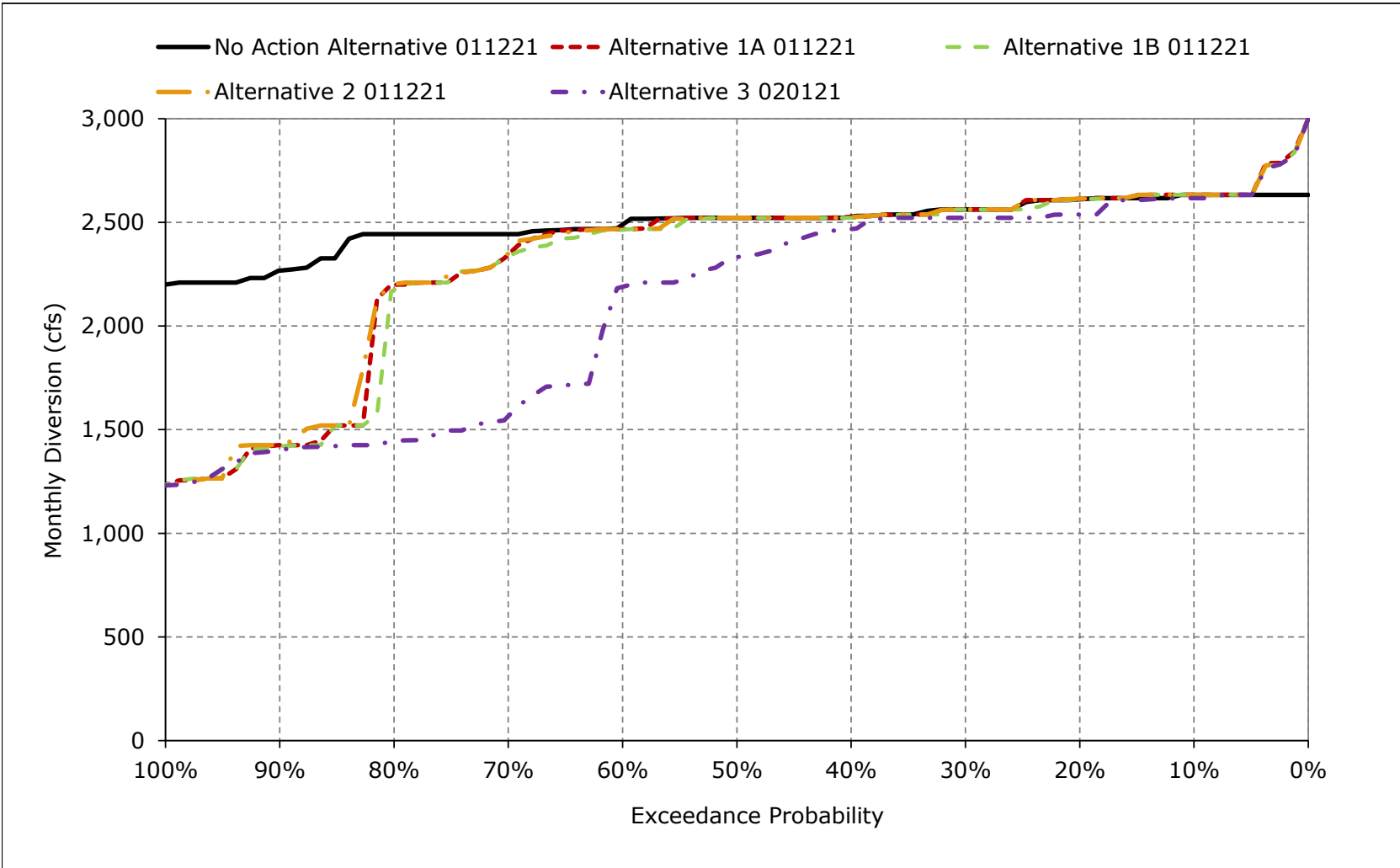
**Figure 5B1-2-14. Hamilton City Diversion - Glenn Colusa Canal, May**



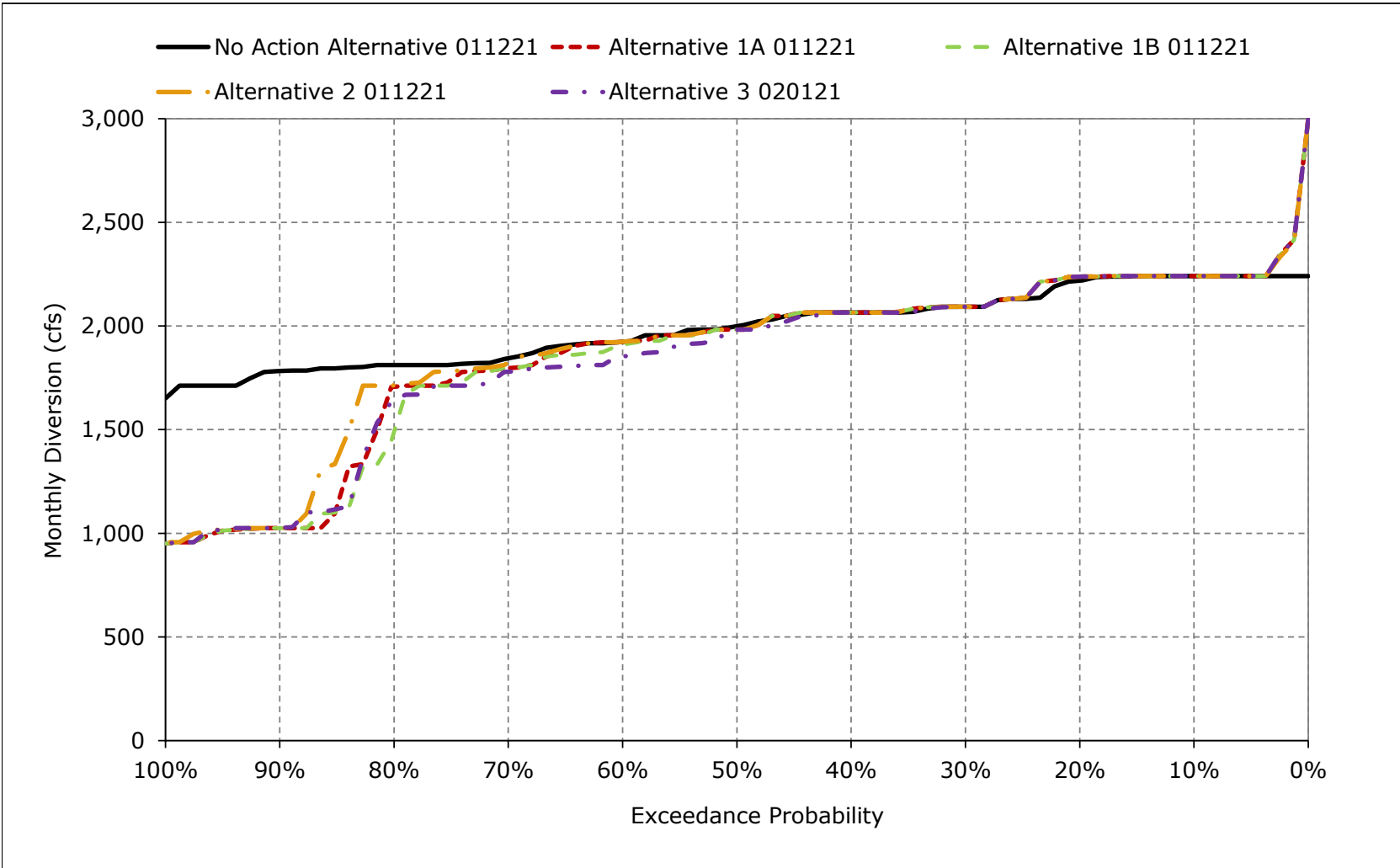
**Figure 5B1-2-15. Hamilton City Diversion - Glenn Colusa Canal, June**



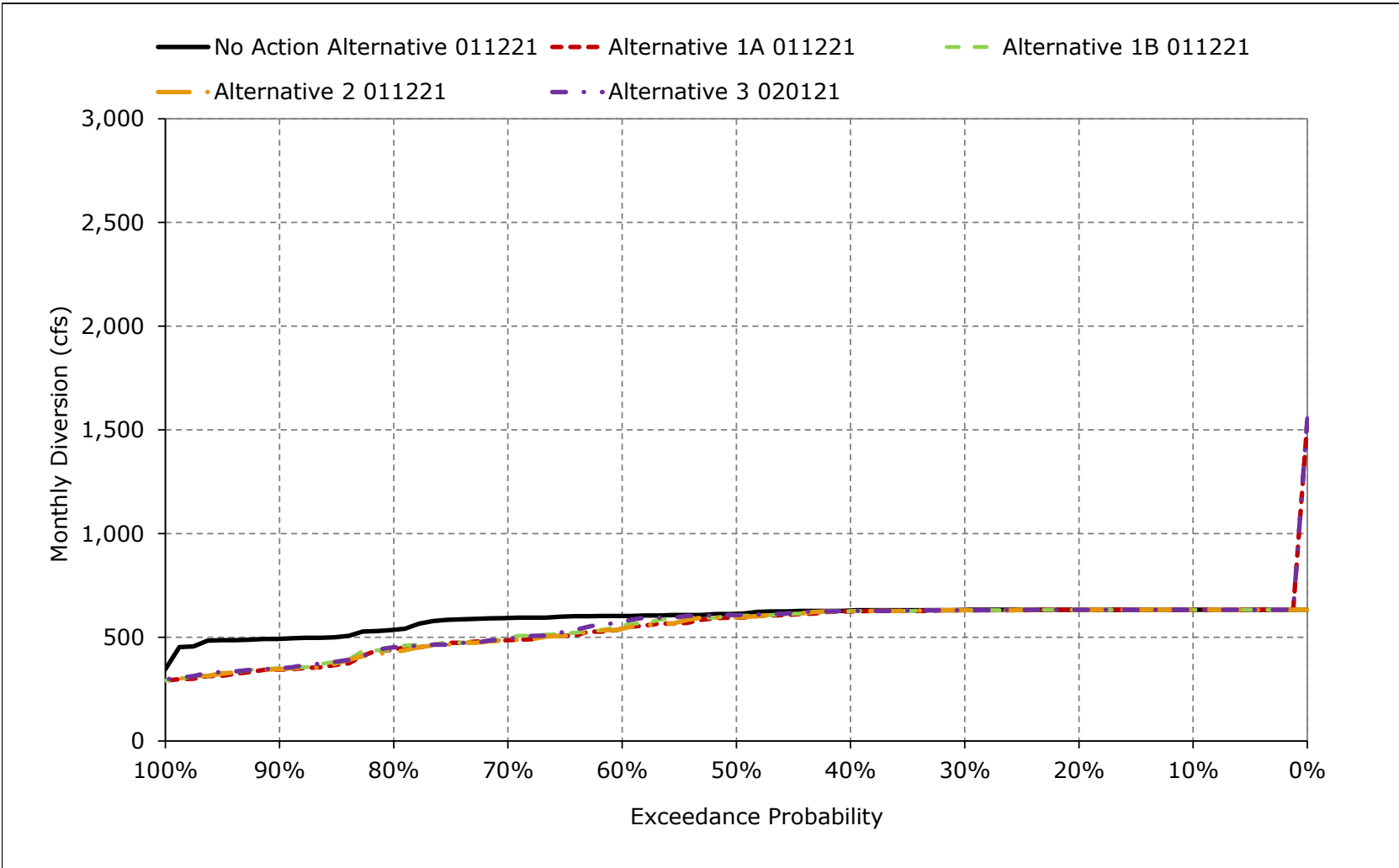
**Figure 5B1-2-16. Hamilton City Diversion - Glenn Colusa Canal, July**



**Figure 5B1-2-17. Hamilton City Diversion - Glenn Colusa Canal, August**



**Figure 5B1-2-18. Hamilton City Diversion - Glenn Colusa Canal, September**



**Table 5B1-3-1a. Total Sites Diversions, No Action Alternative 011221, Monthly Diversion (cfs)**

| Statistic                             | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <b>Probability of Exceedance</b>      |     |     |     |     |     |     |     |     |     |     |     |     |
| 10%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 20%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 30%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 40%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 50%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 60%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 70%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 80%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 90%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| <b>Long Term</b>                      |     |     |     |     |     |     |     |     |     |     |     |     |
| Full Simulation Period <sup>a</sup>   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |     |     |     |     |     |     |     |     |     |     |
| Wet (32%)                             | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Above Normal (15%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Below Normal (17%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Dry (22%)                             | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Critical (15%)                        | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |

**Table 5B1-3-1b. Total Sites Diversions, Alternative 1A 011221, Monthly Diversion (cfs)**

| Statistic                             | Oct | Nov | Dec   | Jan   | Feb   | Mar   | Apr   | May | Jun | Jul | Aug | Sep |
|---------------------------------------|-----|-----|-------|-------|-------|-------|-------|-----|-----|-----|-----|-----|
| <b>Probability of Exceedance</b>      |     |     |       |       |       |       |       |     |     |     |     |     |
| 10%                                   | 0   | 456 | 1,104 | 2,705 | 2,795 | 3,157 | 1,177 | 99  | 139 | 0   | 0   | 0   |
| 20%                                   | 0   | 1   | 0     | 1,729 | 2,258 | 2,362 | 0     | 0   | 0   | 0   | 0   | 0   |
| 30%                                   | 0   | 0   | 0     | 1,023 | 1,298 | 2,195 | 0     | 0   | 0   | 0   | 0   | 0   |
| 40%                                   | 0   | 0   | 0     | 598   | 884   | 1,687 | 0     | 0   | 0   | 0   | 0   | 0   |
| 50%                                   | 0   | 0   | 0     | 445   | 560   | 63    | 0     | 0   | 0   | 0   | 0   | 0   |
| 60%                                   | 0   | 0   | 0     | 119   | 277   | 10    | 0     | 0   | 0   | 0   | 0   | 0   |
| 70%                                   | 0   | 0   | 0     | 0     | 0     | 0     | 0     | 0   | 0   | 0   | 0   | 0   |
| 80%                                   | 0   | 0   | 0     | 0     | 0     | 0     | 0     | 0   | 0   | 0   | 0   | 0   |
| 90%                                   | 0   | 0   | 0     | 0     | 0     | 0     | 0     | 0   | 0   | 0   | 0   | 0   |
| <b>Long Term</b>                      |     |     |       |       |       |       |       |     |     |     |     |     |
| Full Simulation Period <sup>a</sup>   | 47  | 142 | 264   | 854   | 985   | 1,165 | 352   | 82  | 98  | 22  | 27  | 10  |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |       |       |       |       |       |     |     |     |     |     |
| Wet (32%)                             | 148 | 338 | 37    | 1,287 | 1,426 | 1,114 | 859   | 220 | 162 | 69  | 84  | 30  |
| Above Normal (15%)                    | 0   | 208 | 127   | 1,606 | 1,349 | 2,065 | 297   | 83  | 167 | 0   | 0   | 0   |
| Below Normal (17%)                    | 0   | 0   | 446   | 582   | 1,084 | 1,317 | 214   | 0   | 128 | 0   | 0   | 0   |
| Dry (22%)                             | 0   | 20  | 413   | 320   | 587   | 1,058 | 0     | 0   | 0   | 0   | 0   | 0   |
| Critical (15%)                        | 5   | 1   | 461   | 280   | 151   | 359   | 0     | 0   | 0   | 0   | 0   | 0   |

**Table 5B1-3-1c. Total Sites Diversions, Alternative 1A 011221 minus No Action Alternative 011221, Monthly Diversion (cfs)**

| Statistic                             | Oct | Nov | Dec   | Jan   | Feb   | Mar   | Apr   | May | Jun | Jul | Aug | Sep |
|---------------------------------------|-----|-----|-------|-------|-------|-------|-------|-----|-----|-----|-----|-----|
| <b>Probability of Exceedance</b>      |     |     |       |       |       |       |       |     |     |     |     |     |
| 10%                                   | 0   | 456 | 1,104 | 2,705 | 2,795 | 3,157 | 1,177 | 99  | 139 | 0   | 0   | 0   |
| 20%                                   | 0   | 1   | 0     | 1,729 | 2,258 | 2,362 | 0     | 0   | 0   | 0   | 0   | 0   |
| 30%                                   | 0   | 0   | 0     | 1,023 | 1,298 | 2,195 | 0     | 0   | 0   | 0   | 0   | 0   |
| 40%                                   | 0   | 0   | 0     | 598   | 884   | 1,687 | 0     | 0   | 0   | 0   | 0   | 0   |
| 50%                                   | 0   | 0   | 0     | 445   | 560   | 63    | 0     | 0   | 0   | 0   | 0   | 0   |
| 60%                                   | 0   | 0   | 0     | 119   | 277   | 10    | 0     | 0   | 0   | 0   | 0   | 0   |
| 70%                                   | 0   | 0   | 0     | 0     | 0     | 0     | 0     | 0   | 0   | 0   | 0   | 0   |
| 80%                                   | 0   | 0   | 0     | 0     | 0     | 0     | 0     | 0   | 0   | 0   | 0   | 0   |
| 90%                                   | 0   | 0   | 0     | 0     | 0     | 0     | 0     | 0   | 0   | 0   | 0   | 0   |
| <b>Long Term</b>                      |     |     |       |       |       |       |       |     |     |     |     |     |
| Full Simulation Period <sup>a</sup>   | 47  | 142 | 264   | 854   | 985   | 1,165 | 352   | 82  | 98  | 22  | 27  | 10  |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |       |       |       |       |       |     |     |     |     |     |
| Wet (32%)                             | 148 | 338 | 37    | 1,287 | 1,426 | 1,114 | 859   | 220 | 162 | 69  | 84  | 30  |
| Above Normal (15%)                    | 0   | 208 | 127   | 1,606 | 1,349 | 2,065 | 297   | 83  | 167 | 0   | 0   | 0   |
| Below Normal (17%)                    | 0   | 0   | 446   | 582   | 1,084 | 1,317 | 214   | 0   | 128 | 0   | 0   | 0   |
| Dry (22%)                             | 0   | 20  | 413   | 320   | 587   | 1,058 | 0     | 0   | 0   | 0   | 0   | 0   |
| Critical (15%)                        | 5   | 1   | 461   | 280   | 151   | 359   | 0     | 0   | 0   | 0   | 0   | 0   |

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).

c These results are displayed with calendar year - year type sorting.

**Table 5B1-3-2a. Total Sites Diversions, No Action Alternative 011221, Monthly Diversion (cfs)**

| Statistic                             | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <b>Probability of Exceedance</b>      |     |     |     |     |     |     |     |     |     |     |     |     |
| 10%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 20%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 30%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 40%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 50%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 60%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 70%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 80%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 90%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| <b>Long Term</b>                      |     |     |     |     |     |     |     |     |     |     |     |     |
| Full Simulation Period <sup>a</sup>   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |     |     |     |     |     |     |     |     |     |     |
| Wet (32%)                             | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Above Normal (15%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Below Normal (17%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Dry (22%)                             | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Critical (15%)                        | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |

**Table 5B1-3-2b. Total Sites Diversions, Alternative 1B 011221, Monthly Diversion (cfs)**

| Statistic                             | Oct | Nov | Dec   | Jan   | Feb   | Mar   | Apr   | May | Jun | Jul | Aug | Sep |
|---------------------------------------|-----|-----|-------|-------|-------|-------|-------|-----|-----|-----|-----|-----|
| <b>Probability of Exceedance</b>      |     |     |       |       |       |       |       |     |     |     |     |     |
| 10%                                   | 0   | 394 | 1,102 | 2,705 | 2,887 | 3,421 | 2,406 | 93  | 190 | 0   | 0   | 0   |
| 20%                                   | 0   | 7   | 0     | 1,796 | 2,435 | 2,382 | 0     | 0   | 0   | 0   | 0   | 0   |
| 30%                                   | 0   | 0   | 0     | 1,129 | 1,665 | 2,248 | 0     | 0   | 0   | 0   | 0   | 0   |
| 40%                                   | 0   | 0   | 0     | 744   | 1,025 | 1,739 | 0     | 0   | 0   | 0   | 0   | 0   |
| 50%                                   | 0   | 0   | 0     | 493   | 568   | 189   | 0     | 0   | 0   | 0   | 0   | 0   |
| 60%                                   | 0   | 0   | 0     | 313   | 290   | 17    | 0     | 0   | 0   | 0   | 0   | 0   |
| 70%                                   | 0   | 0   | 0     | 0     | 3     | 0     | 0     | 0   | 0   | 0   | 0   | 0   |
| 80%                                   | 0   | 0   | 0     | 0     | 0     | 0     | 0     | 0   | 0   | 0   | 0   | 0   |
| 90%                                   | 0   | 0   | 0     | 0     | 0     | 0     | 0     | 0   | 0   | 0   | 0   | 0   |
| <b>Long Term</b>                      |     |     |       |       |       |       |       |     |     |     |     |     |
| Full Simulation Period <sup>a</sup>   | 58  | 144 | 272   | 908   | 1,079 | 1,191 | 390   | 107 | 106 | 22  | 27  | 0   |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |       |       |       |       |       |     |     |     |     |     |
| Wet (32%)                             | 147 | 322 | 37    | 1,455 | 1,615 | 1,155 | 977   | 299 | 188 | 68  | 84  | 0   |
| Above Normal (15%)                    | 67  | 255 | 198   | 1,606 | 1,504 | 2,065 | 297   | 82  | 167 | 0   | 0   | 0   |
| Below Normal (17%)                    | 0   | 0   | 446   | 583   | 1,138 | 1,307 | 214   | 0   | 128 | 0   | 0   | 0   |
| Dry (22%)                             | 0   | 19  | 399   | 325   | 593   | 1,124 | 0     | 0   | 0   | 0   | 0   | 0   |
| Critical (15%)                        | 12  | 2   | 461   | 281   | 151   | 361   | 0     | 0   | 0   | 0   | 0   | 0   |

**Table 5B1-3-2c. Total Sites Diversions, Alternative 1B 011221 minus No Action Alternative 011221, Monthly Diversion (cfs)**

| Statistic                             | Oct | Nov | Dec   | Jan   | Feb   | Mar   | Apr   | May | Jun | Jul | Aug | Sep |
|---------------------------------------|-----|-----|-------|-------|-------|-------|-------|-----|-----|-----|-----|-----|
| <b>Probability of Exceedance</b>      |     |     |       |       |       |       |       |     |     |     |     |     |
| 10%                                   | 0   | 394 | 1,102 | 2,705 | 2,887 | 3,421 | 2,406 | 93  | 190 | 0   | 0   | 0   |
| 20%                                   | 0   | 7   | 0     | 1,796 | 2,435 | 2,382 | 0     | 0   | 0   | 0   | 0   | 0   |
| 30%                                   | 0   | 0   | 0     | 1,129 | 1,665 | 2,248 | 0     | 0   | 0   | 0   | 0   | 0   |
| 40%                                   | 0   | 0   | 0     | 744   | 1,025 | 1,739 | 0     | 0   | 0   | 0   | 0   | 0   |
| 50%                                   | 0   | 0   | 0     | 493   | 568   | 189   | 0     | 0   | 0   | 0   | 0   | 0   |
| 60%                                   | 0   | 0   | 0     | 313   | 290   | 17    | 0     | 0   | 0   | 0   | 0   | 0   |
| 70%                                   | 0   | 0   | 0     | 0     | 3     | 0     | 0     | 0   | 0   | 0   | 0   | 0   |
| 80%                                   | 0   | 0   | 0     | 0     | 0     | 0     | 0     | 0   | 0   | 0   | 0   | 0   |
| 90%                                   | 0   | 0   | 0     | 0     | 0     | 0     | 0     | 0   | 0   | 0   | 0   | 0   |
| <b>Long Term</b>                      |     |     |       |       |       |       |       |     |     |     |     |     |
| Full Simulation Period <sup>a</sup>   | 58  | 144 | 272   | 908   | 1,079 | 1,191 | 390   | 107 | 106 | 22  | 27  | 0   |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |       |       |       |       |       |     |     |     |     |     |
| Wet (32%)                             | 147 | 322 | 37    | 1,455 | 1,615 | 1,155 | 977   | 299 | 188 | 68  | 84  | 0   |
| Above Normal (15%)                    | 67  | 255 | 198   | 1,606 | 1,504 | 2,065 | 297   | 82  | 167 | 0   | 0   | 0   |
| Below Normal (17%)                    | 0   | 0   | 446   | 583   | 1,138 | 1,307 | 214   | 0   | 128 | 0   | 0   | 0   |
| Dry (22%)                             | 0   | 19  | 399   | 325   | 593   | 1,124 | 0     | 0   | 0   | 0   | 0   | 0   |
| Critical (15%)                        | 12  | 2   | 461   | 281   | 151   | 361   | 0     | 0   | 0   | 0   | 0   | 0   |

a Based on the 82-year simulation period.

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

c These results are displayed with calendar year - year type sorting.



**Table 5B1-3-3a. Total Sites Diversions, No Action Alternative 011221, Monthly Diversion (cfs)**

| Statistic                             | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <b>Probability of Exceedance</b>      |     |     |     |     |     |     |     |     |     |     |     |     |
| 10%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 20%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 30%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 40%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 50%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 60%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 70%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 80%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 90%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| <b>Long Term</b>                      |     |     |     |     |     |     |     |     |     |     |     |     |
| Full Simulation Period <sup>a</sup>   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |     |     |     |     |     |     |     |     |     |     |
| Wet (32%)                             | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Above Normal (15%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Below Normal (17%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Dry (22%)                             | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Critical (15%)                        | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |

**Table 5B1-3-3b. Total Sites Diversions, Alternative 2 011221, Monthly Diversion (cfs)**

| Statistic                             | Oct | Nov | Dec   | Jan   | Feb   | Mar   | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------|-----|-----|-------|-------|-------|-------|-----|-----|-----|-----|-----|-----|
| <b>Probability of Exceedance</b>      |     |     |       |       |       |       |     |     |     |     |     |     |
| 10%                                   | 0   | 524 | 1,104 | 2,705 | 2,805 | 2,868 | 64  | 93  | 130 | 0   | 0   | 0   |
| 20%                                   | 0   | 10  | 0     | 1,578 | 2,217 | 2,338 | 0   | 0   | 0   | 0   | 0   | 0   |
| 30%                                   | 0   | 0   | 0     | 1,024 | 1,183 | 2,144 | 0   | 0   | 0   | 0   | 0   | 0   |
| 40%                                   | 0   | 0   | 0     | 593   | 830   | 1,486 | 0   | 0   | 0   | 0   | 0   | 0   |
| 50%                                   | 0   | 0   | 0     | 456   | 537   | 53    | 0   | 0   | 0   | 0   | 0   | 0   |
| 60%                                   | 0   | 0   | 0     | 86    | 266   | 9     | 0   | 0   | 0   | 0   | 0   | 0   |
| 70%                                   | 0   | 0   | 0     | 0     | 0     | 0     | 0   | 0   | 0   | 0   | 0   | 0   |
| 80%                                   | 0   | 0   | 0     | 0     | 0     | 0     | 0   | 0   | 0   | 0   | 0   | 0   |
| 90%                                   | 0   | 0   | 0     | 0     | 0     | 0     | 0   | 0   | 0   | 0   | 0   | 0   |
| <b>Long Term</b>                      |     |     |       |       |       |       |     |     |     |     |     |     |
| Full Simulation Period <sup>a</sup>   | 47  | 152 | 264   | 841   | 955   | 1,078 | 317 | 81  | 96  | 22  | 14  | 0   |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |       |       |       |       |     |     |     |     |     |     |
| Wet (32%)                             | 145 | 335 | 37    | 1,247 | 1,332 | 895   | 746 | 218 | 158 | 68  | 45  | 0   |
| Above Normal (15%)                    | 0   | 204 | 127   | 1,605 | 1,348 | 2,040 | 297 | 83  | 167 | 0   | 0   | 0   |
| Below Normal (17%)                    | 0   | 67  | 446   | 582   | 1,081 | 1,312 | 214 | 0   | 128 | 0   | 0   | 0   |
| Dry (22%)                             | 0   | 20  | 412   | 321   | 587   | 998   | 0   | 0   | 0   | 0   | 0   | 0   |
| Critical (15%)                        | 7   | 2   | 461   | 280   | 151   | 360   | 0   | 0   | 0   | 0   | 0   | 0   |

**Table 5B1-3-3c. Total Sites Diversions, Alternative 2 011221 minus No Action Alternative 011221, Monthly Diversion (cfs)**

| Statistic                             | Oct | Nov | Dec   | Jan   | Feb   | Mar   | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------|-----|-----|-------|-------|-------|-------|-----|-----|-----|-----|-----|-----|
| <b>Probability of Exceedance</b>      |     |     |       |       |       |       |     |     |     |     |     |     |
| 10%                                   | 0   | 524 | 1,104 | 2,705 | 2,805 | 2,868 | 64  | 93  | 130 | 0   | 0   | 0   |
| 20%                                   | 0   | 10  | 0     | 1,578 | 2,217 | 2,338 | 0   | 0   | 0   | 0   | 0   | 0   |
| 30%                                   | 0   | 0   | 0     | 1,024 | 1,183 | 2,144 | 0   | 0   | 0   | 0   | 0   | 0   |
| 40%                                   | 0   | 0   | 0     | 593   | 830   | 1,486 | 0   | 0   | 0   | 0   | 0   | 0   |
| 50%                                   | 0   | 0   | 0     | 456   | 537   | 53    | 0   | 0   | 0   | 0   | 0   | 0   |
| 60%                                   | 0   | 0   | 0     | 86    | 266   | 9     | 0   | 0   | 0   | 0   | 0   | 0   |
| 70%                                   | 0   | 0   | 0     | 0     | 0     | 0     | 0   | 0   | 0   | 0   | 0   | 0   |
| 80%                                   | 0   | 0   | 0     | 0     | 0     | 0     | 0   | 0   | 0   | 0   | 0   | 0   |
| 90%                                   | 0   | 0   | 0     | 0     | 0     | 0     | 0   | 0   | 0   | 0   | 0   | 0   |
| <b>Long Term</b>                      |     |     |       |       |       |       |     |     |     |     |     |     |
| Full Simulation Period <sup>a</sup>   | 47  | 152 | 264   | 841   | 955   | 1,078 | 317 | 81  | 96  | 22  | 14  | 0   |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |       |       |       |       |     |     |     |     |     |     |
| Wet (32%)                             | 145 | 335 | 37    | 1,247 | 1,332 | 895   | 746 | 218 | 158 | 68  | 45  | 0   |
| Above Normal (15%)                    | 0   | 204 | 127   | 1,605 | 1,348 | 2,040 | 297 | 83  | 167 | 0   | 0   | 0   |
| Below Normal (17%)                    | 0   | 67  | 446   | 582   | 1,081 | 1,312 | 214 | 0   | 128 | 0   | 0   | 0   |
| Dry (22%)                             | 0   | 20  | 412   | 321   | 587   | 998   | 0   | 0   | 0   | 0   | 0   | 0   |
| Critical (15%)                        | 7   | 2   | 461   | 280   | 151   | 360   | 0   | 0   | 0   | 0   | 0   | 0   |

a Based on the 82-year simulation period.

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

c These results are displayed with calendar year - year type sorting.

**Table 5B1-3-4a. Total Sites Diversions, No Action Alternative 011221, Monthly Diversion (cfs)**

| Statistic                             | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <b>Probability of Exceedance</b>      |     |     |     |     |     |     |     |     |     |     |     |     |
| 10%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 20%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 30%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 40%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 50%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 60%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 70%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 80%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 90%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| <b>Long Term</b>                      |     |     |     |     |     |     |     |     |     |     |     |     |
| Full Simulation Period <sup>a</sup>   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |     |     |     |     |     |     |     |     |     |     |
| Wet (32%)                             | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Above Normal (15%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Below Normal (17%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Dry (22%)                             | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Critical (15%)                        | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |

**Table 5B1-3-4b. Total Sites Diversions, Alternative 3 020121, Monthly Diversion (cfs)**

| Statistic                             | Oct | Nov | Dec   | Jan   | Feb   | Mar   | Apr   | May | Jun | Jul | Aug | Sep |
|---------------------------------------|-----|-----|-------|-------|-------|-------|-------|-----|-----|-----|-----|-----|
| <b>Probability of Exceedance</b>      |     |     |       |       |       |       |       |     |     |     |     |     |
| 10%                                   | 52  | 539 | 1,179 | 2,705 | 2,926 | 3,479 | 2,990 | 90  | 175 | 0   | 0   | 0   |
| 20%                                   | 0   | 92  | 342   | 1,760 | 2,577 | 2,416 | 0     | 0   | 0   | 0   | 0   | 0   |
| 30%                                   | 0   | 0   | 0     | 1,113 | 2,142 | 2,302 | 0     | 0   | 0   | 0   | 0   | 0   |
| 40%                                   | 0   | 0   | 0     | 737   | 1,023 | 1,971 | 0     | 0   | 0   | 0   | 0   | 0   |
| 50%                                   | 0   | 0   | 0     | 530   | 568   | 1,384 | 0     | 0   | 0   | 0   | 0   | 0   |
| 60%                                   | 0   | 0   | 0     | 325   | 290   | 29    | 0     | 0   | 0   | 0   | 0   | 0   |
| 70%                                   | 0   | 0   | 0     | 0     | 4     | 0     | 0     | 0   | 0   | 0   | 0   | 0   |
| 80%                                   | 0   | 0   | 0     | 0     | 0     | 0     | 0     | 0   | 0   | 0   | 0   | 0   |
| 90%                                   | 0   | 0   | 0     | 0     | 0     | 0     | 0     | 0   | 0   | 0   | 0   | 0   |
| <b>Long Term</b>                      |     |     |       |       |       |       |       |     |     |     |     |     |
| Full Simulation Period <sup>a</sup>   | 68  | 169 | 309   | 914   | 1,135 | 1,322 | 467   | 139 | 119 | 21  | 27  | 10  |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |       |       |       |       |       |     |     |     |     |     |
| Wet (32%)                             | 150 | 322 | 37    | 1,471 | 1,651 | 1,517 | 1,219 | 401 | 229 | 68  | 84  | 31  |
| Above Normal (15%)                    | 107 | 349 | 394   | 1,608 | 1,654 | 2,186 | 297   | 83  | 167 | 0   | 0   | 0   |
| Below Normal (17%)                    | 0   | 67  | 482   | 583   | 1,273 | 1,329 | 214   | 0   | 128 | 0   | 0   | 0   |
| Dry (22%)                             | 9   | 20  | 405   | 327   | 593   | 1,129 | 0     | 0   | 0   | 0   | 0   | 0   |
| Critical (15%)                        | 17  | 2   | 468   | 279   | 151   | 317   | 0     | 0   | 0   | 0   | 0   | 0   |

**Table 5B1-3-4c. Total Sites Diversions, Alternative 3 020121 minus No Action Alternative 011221, Monthly Diversion (cfs)**

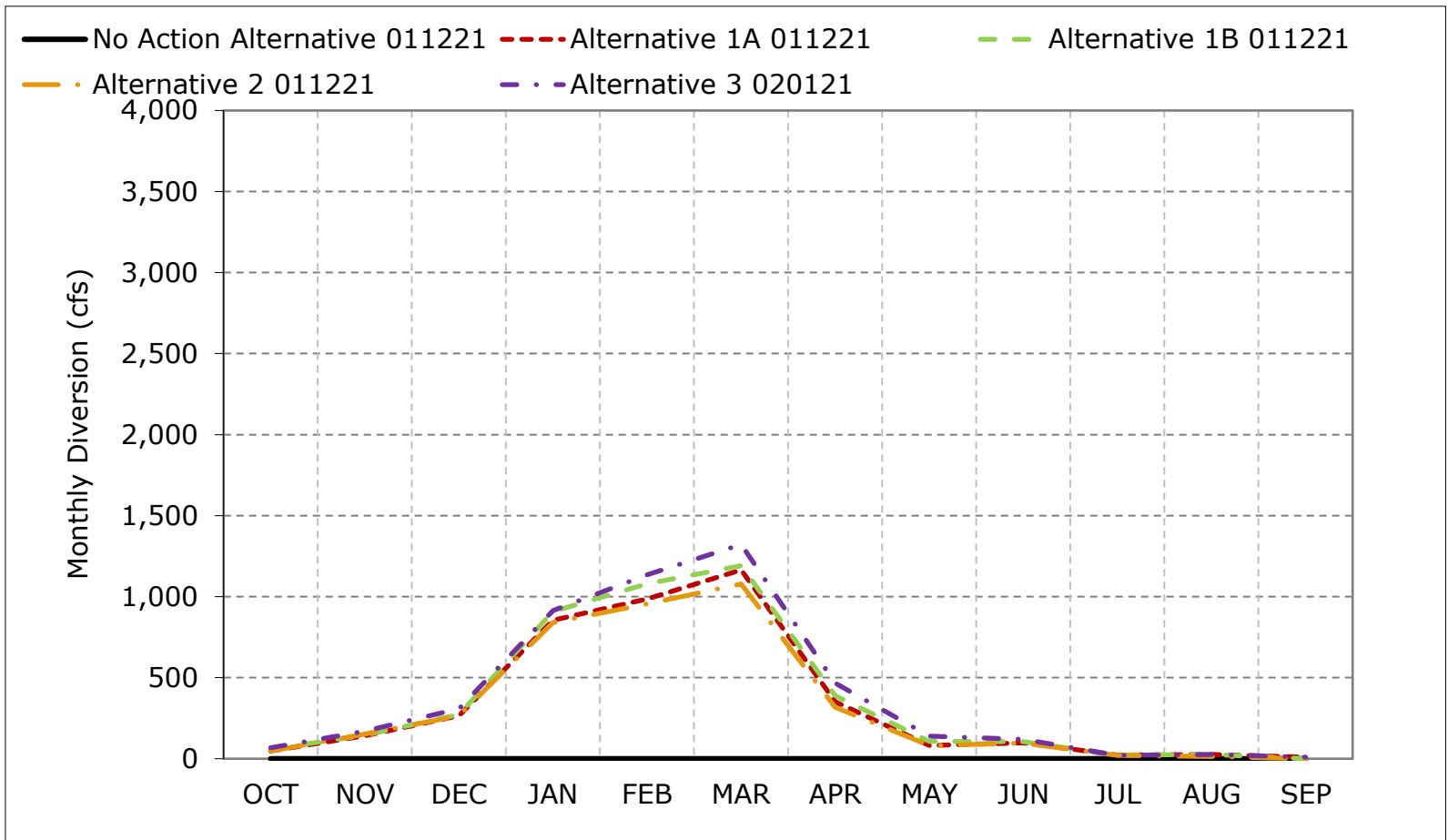
| Statistic                             | Oct | Nov | Dec   | Jan   | Feb   | Mar   | Apr   | May | Jun | Jul | Aug | Sep |
|---------------------------------------|-----|-----|-------|-------|-------|-------|-------|-----|-----|-----|-----|-----|
| <b>Probability of Exceedance</b>      |     |     |       |       |       |       |       |     |     |     |     |     |
| 10%                                   | 52  | 539 | 1,179 | 2,705 | 2,926 | 3,479 | 2,990 | 90  | 175 | 0   | 0   | 0   |
| 20%                                   | 0   | 92  | 342   | 1,760 | 2,577 | 2,416 | 0     | 0   | 0   | 0   | 0   | 0   |
| 30%                                   | 0   | 0   | 0     | 1,113 | 2,142 | 2,302 | 0     | 0   | 0   | 0   | 0   | 0   |
| 40%                                   | 0   | 0   | 0     | 737   | 1,023 | 1,971 | 0     | 0   | 0   | 0   | 0   | 0   |
| 50%                                   | 0   | 0   | 0     | 530   | 568   | 1,384 | 0     | 0   | 0   | 0   | 0   | 0   |
| 60%                                   | 0   | 0   | 0     | 325   | 290   | 29    | 0     | 0   | 0   | 0   | 0   | 0   |
| 70%                                   | 0   | 0   | 0     | 0     | 4     | 0     | 0     | 0   | 0   | 0   | 0   | 0   |
| 80%                                   | 0   | 0   | 0     | 0     | 0     | 0     | 0     | 0   | 0   | 0   | 0   | 0   |
| 90%                                   | 0   | 0   | 0     | 0     | 0     | 0     | 0     | 0   | 0   | 0   | 0   | 0   |
| <b>Long Term</b>                      |     |     |       |       |       |       |       |     |     |     |     |     |
| Full Simulation Period <sup>a</sup>   | 68  | 169 | 309   | 914   | 1,135 | 1,322 | 467   | 139 | 119 | 21  | 27  | 10  |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |       |       |       |       |       |     |     |     |     |     |
| Wet (32%)                             | 150 | 322 | 37    | 1,471 | 1,651 | 1,517 | 1,219 | 401 | 229 | 68  | 84  | 31  |
| Above Normal (15%)                    | 107 | 349 | 394   | 1,608 | 1,654 | 2,186 | 297   | 83  | 167 | 0   | 0   | 0   |
| Below Normal (17%)                    | 0   | 67  | 482   | 583   | 1,273 | 1,329 | 214   | 0   | 128 | 0   | 0   | 0   |
| Dry (22%)                             | 9   | 20  | 405   | 327   | 593   | 1,129 | 0     | 0   | 0   | 0   | 0   | 0   |
| Critical (15%)                        | 17  | 2   | 468   | 279   | 151   | 317   | 0     | 0   | 0   | 0   | 0   | 0   |

a Based on the 82-year simulation period.

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

c These results are displayed with calendar year - year type sorting.

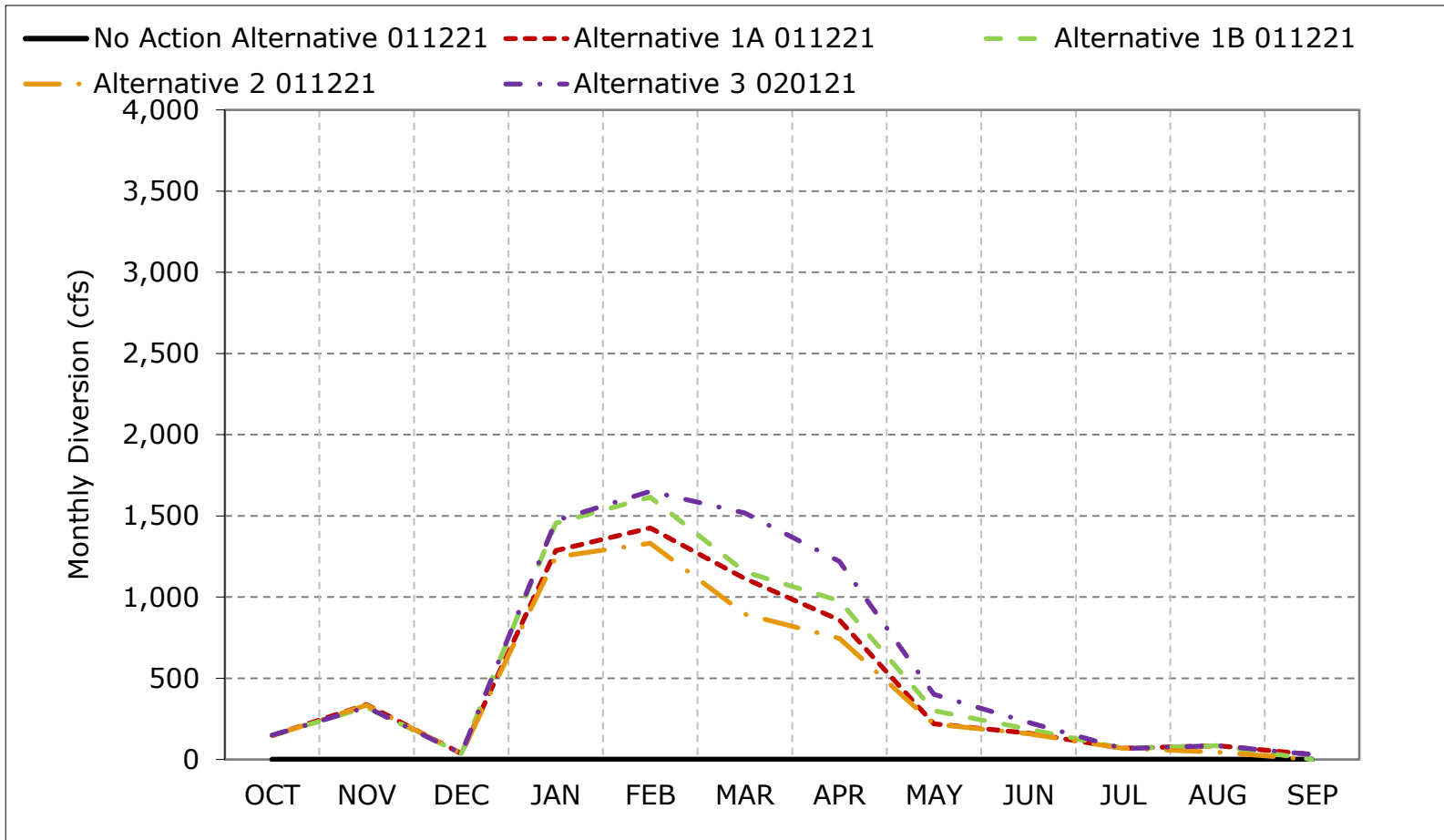
**Figure 5B1-3-1. Total Sites Diversions, Long-Term Average Diversion**



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

\*These results are displayed with calendar year - year type sorting.

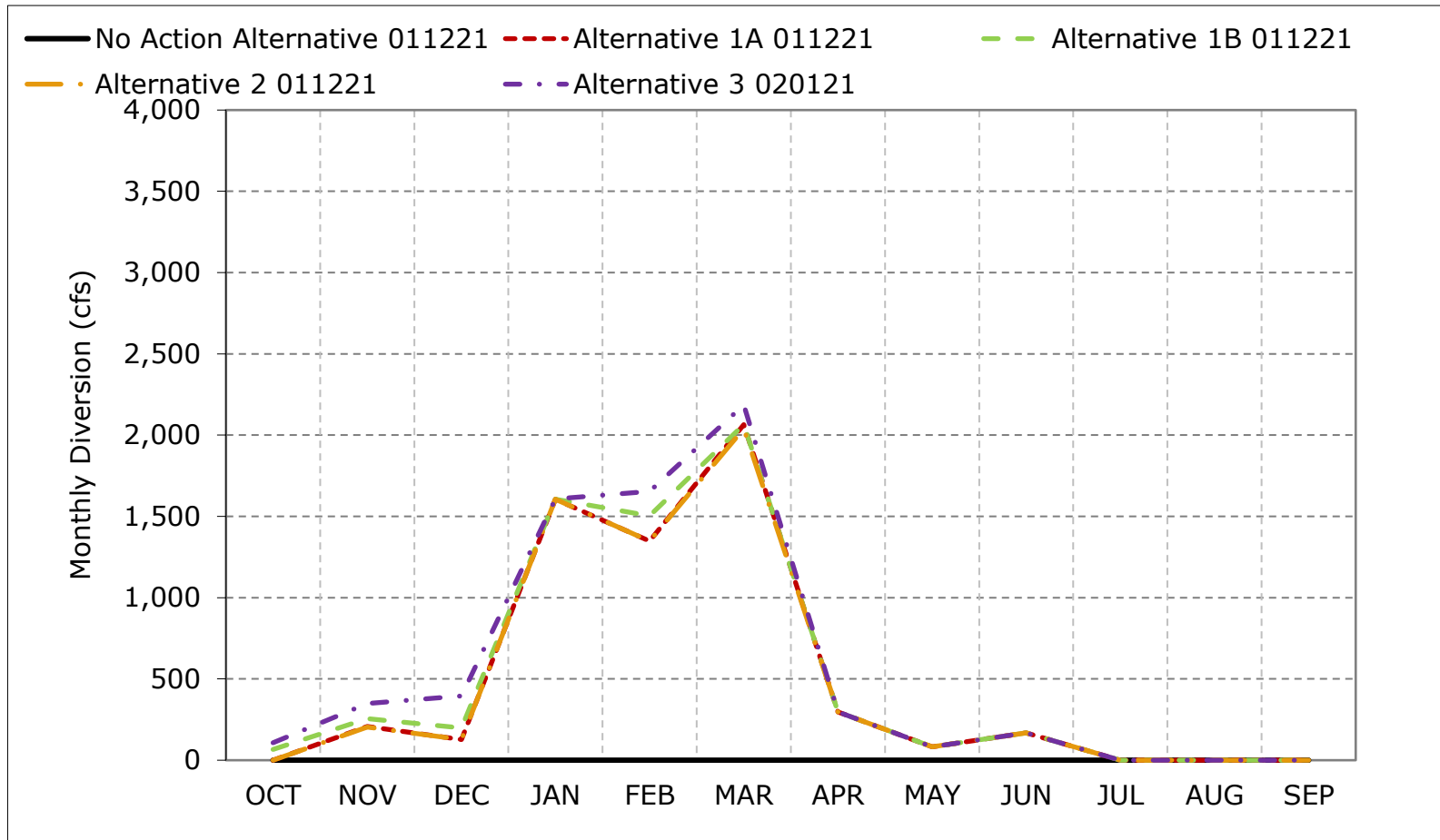
**Figure 5B1-3-2. Total Sites Diversions, Wet Year Average Diversion**



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

\*These results are displayed with calendar year - year type sorting.

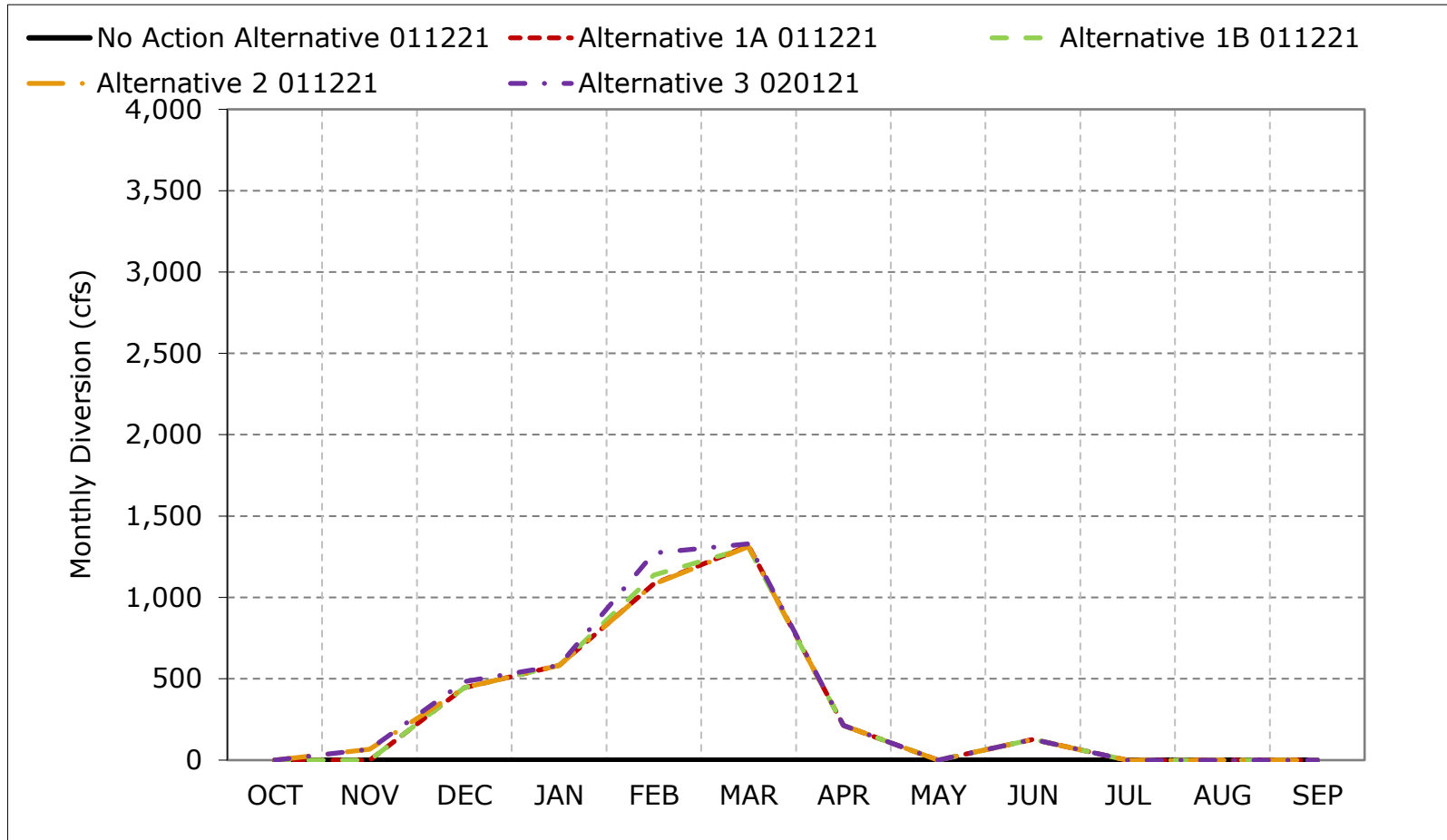
**Figure 5B1-3-3. Total Sites Diversions, Above Normal Year Average Diversion**



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

\*These results are displayed with calendar year - year type sorting.

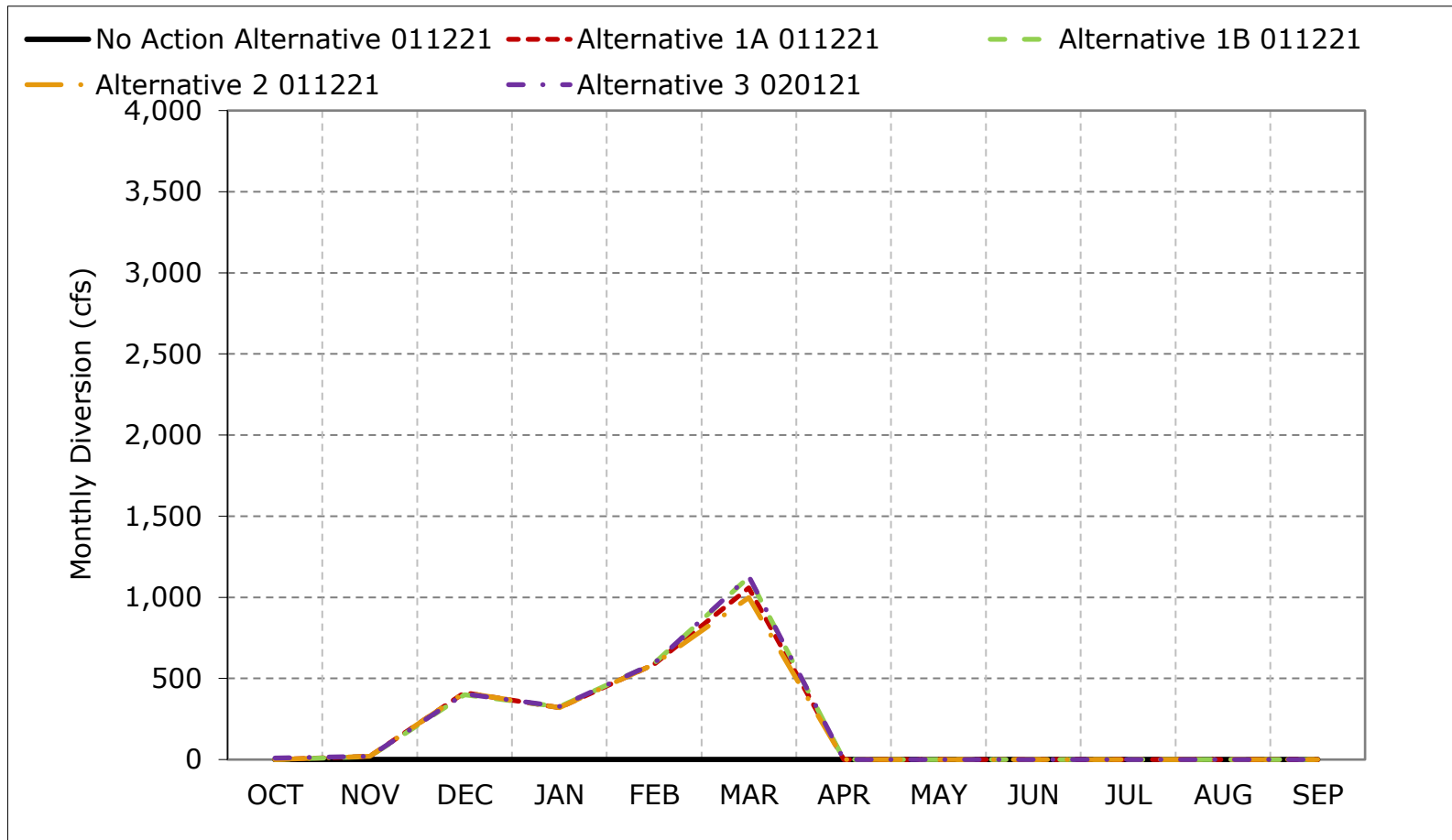
**Figure 5B1-3-4. Total Sites Diversions, Below Normal Year Average Diversion**



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

\*These results are displayed with calendar year - year type sorting.

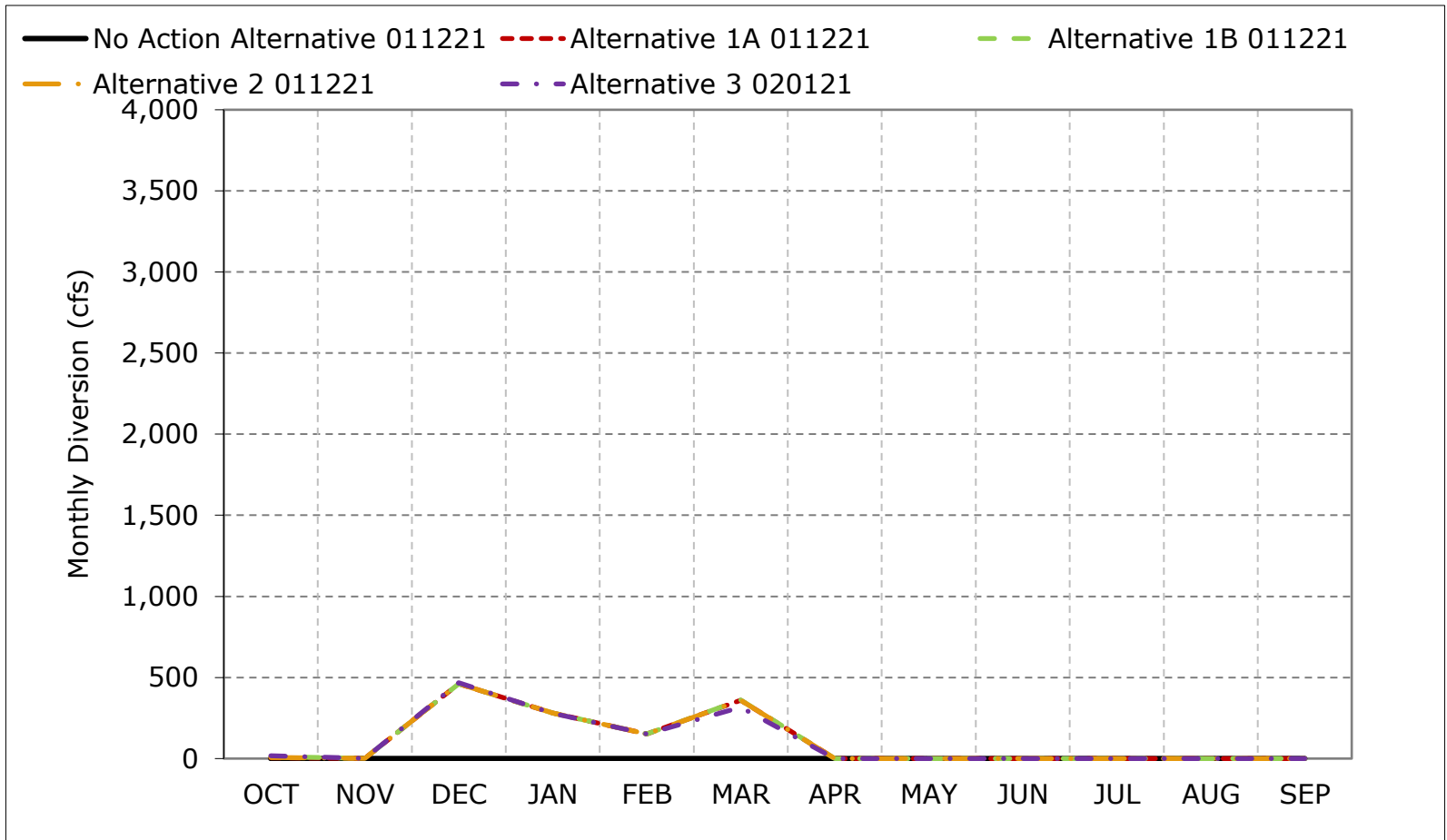
**Figure 5B1-3-5. Total Sites Diversions, Dry Year Average Diversion**



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

\*These results are displayed with calendar year - year type sorting.

**Figure 5B1-3-6. Total Sites Diversions, Critical Year Average Diversion**

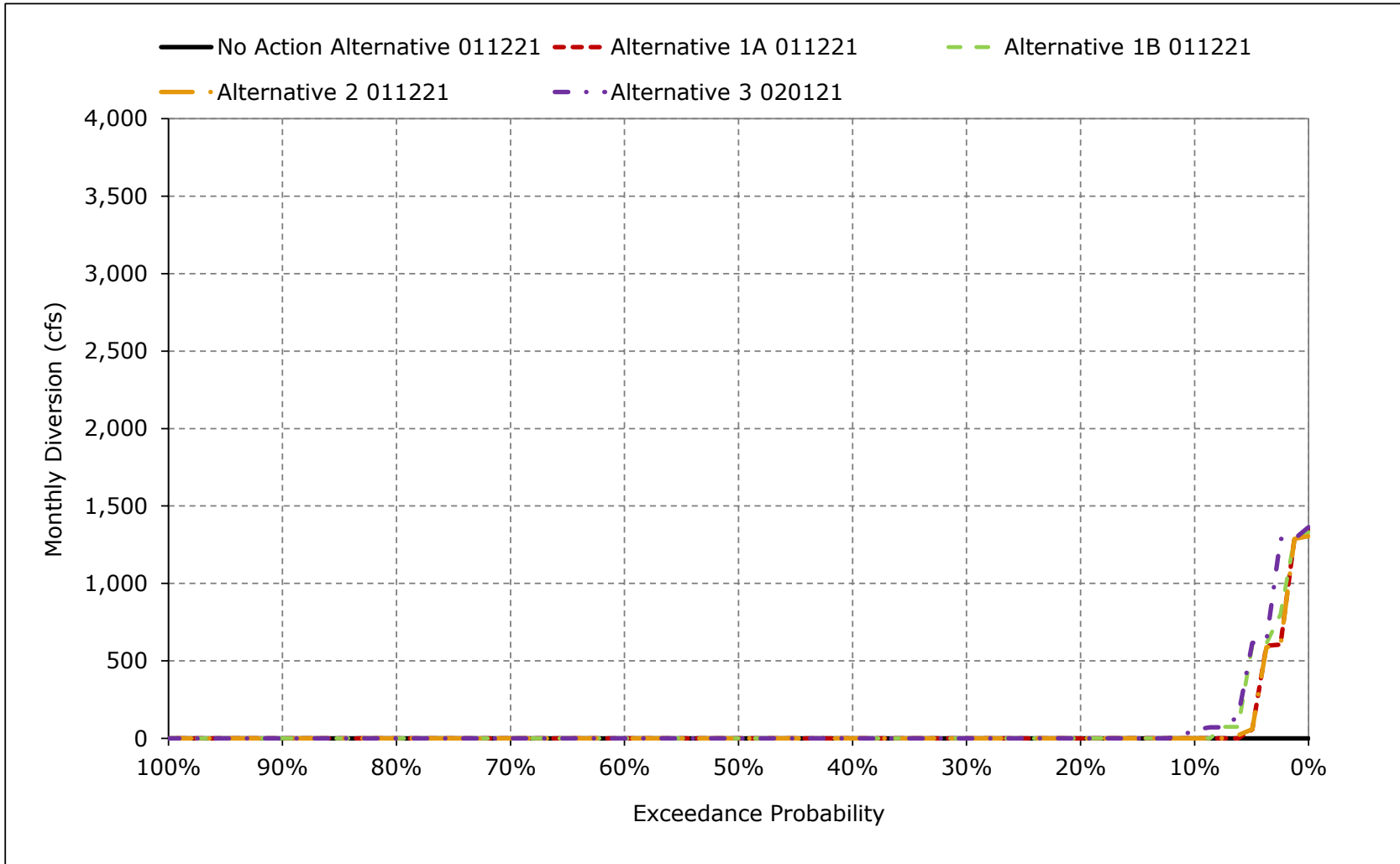


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

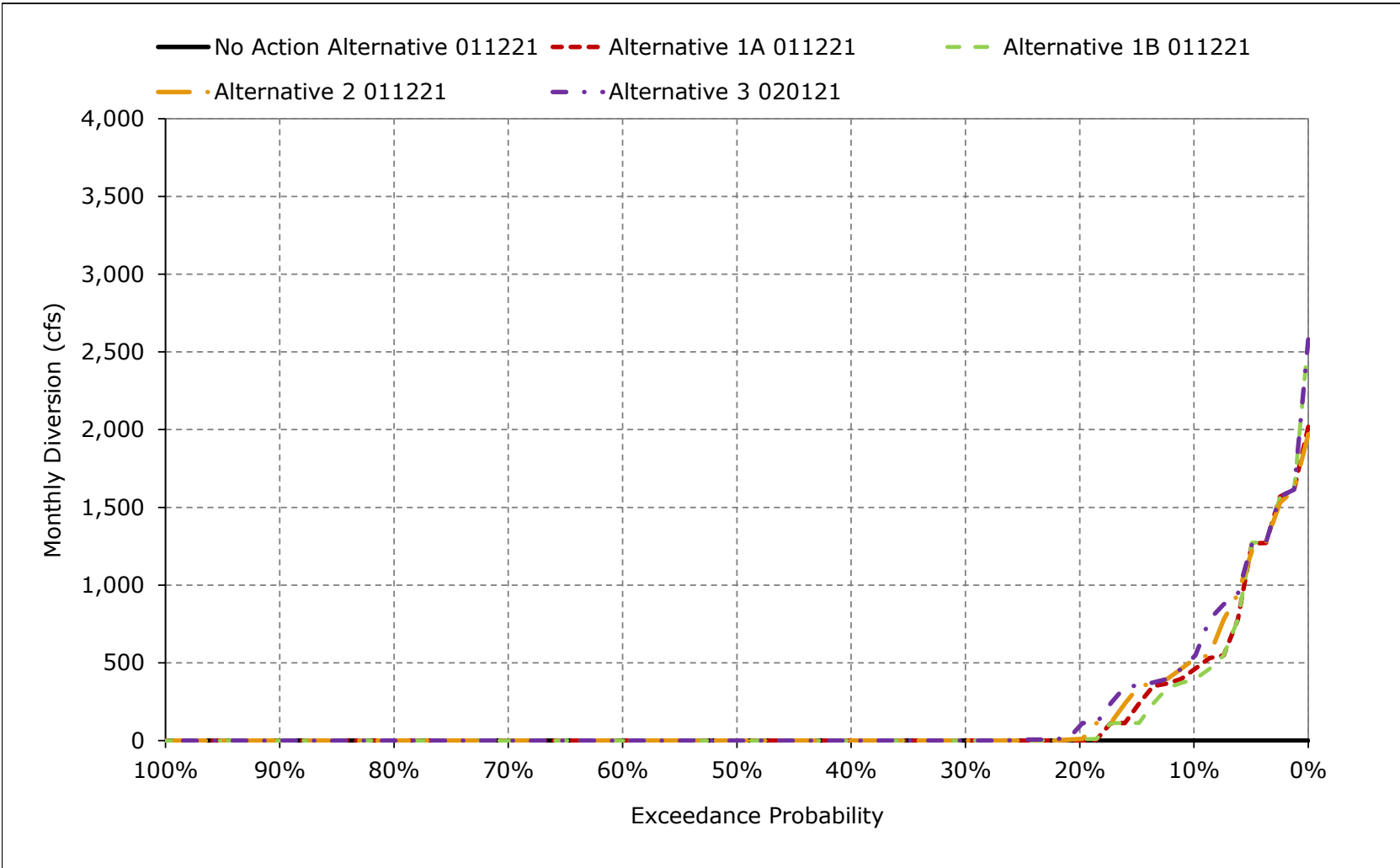
\*These results are displayed with calendar year - year type sorting.



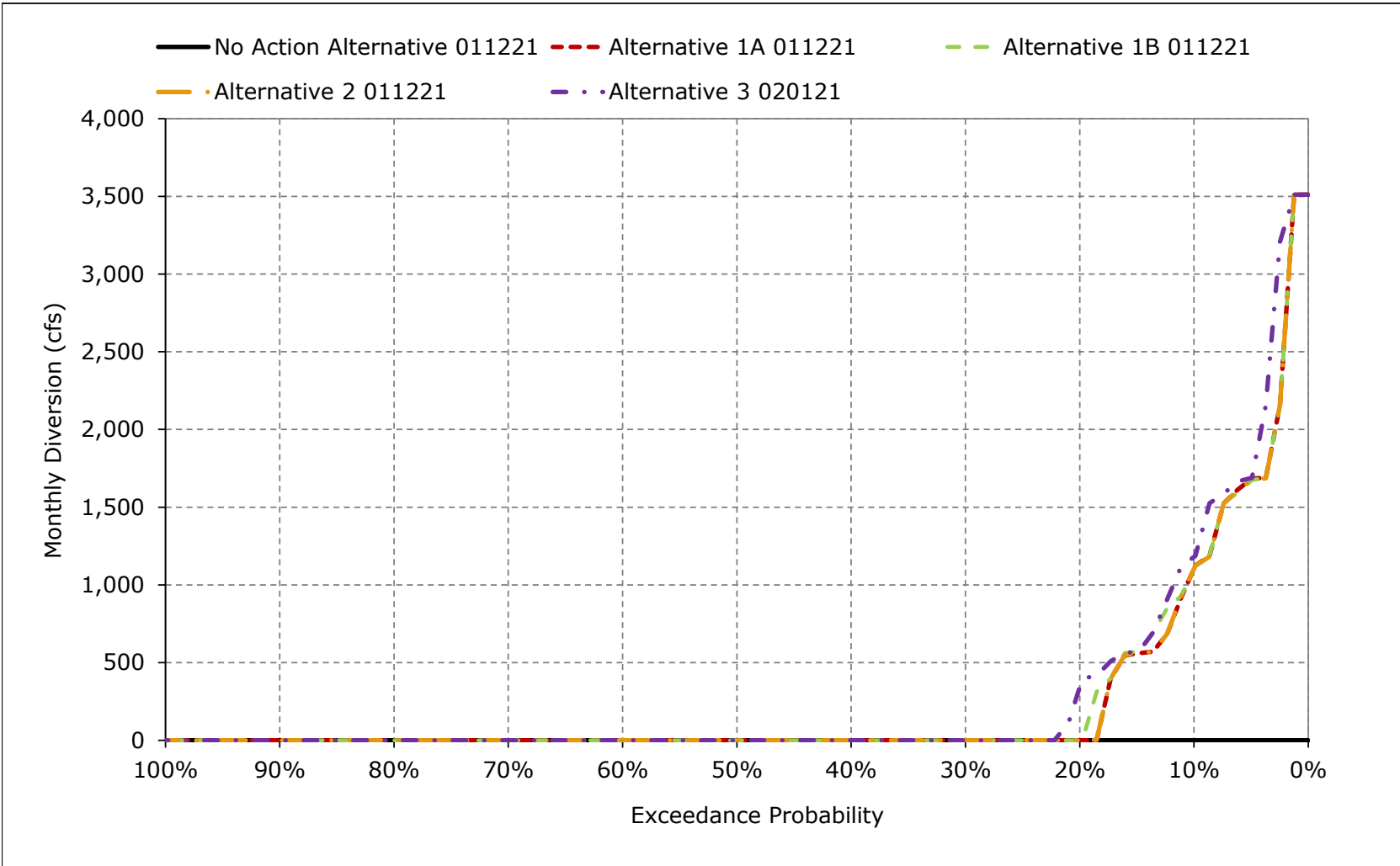
**Figure 5B1-3-7. Total Sites Diversions, October**



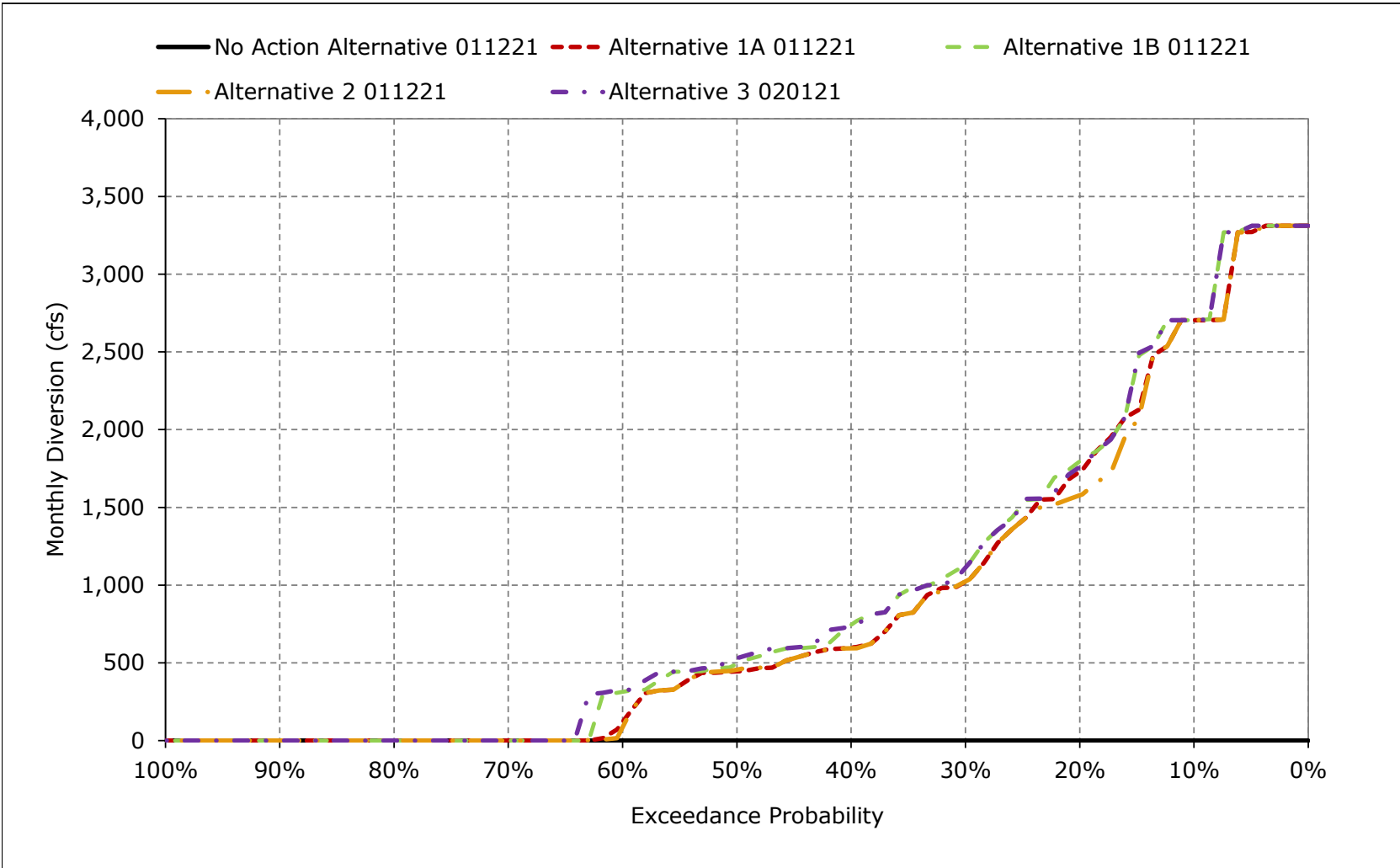
**Figure 5B1-3-8. Total Sites Diversions, November**



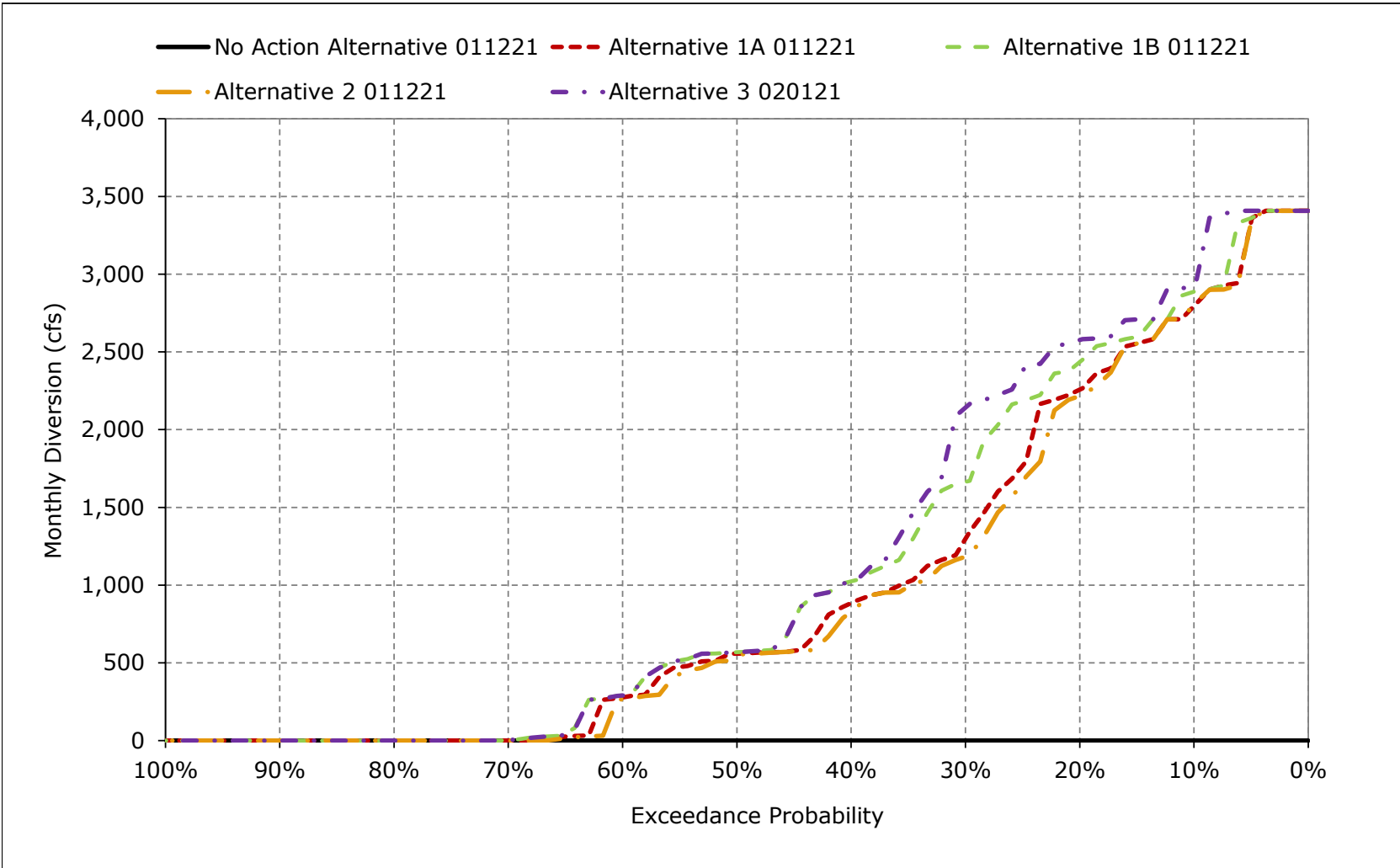
**Figure 5B1-3-9. Total Sites Diversions, December**



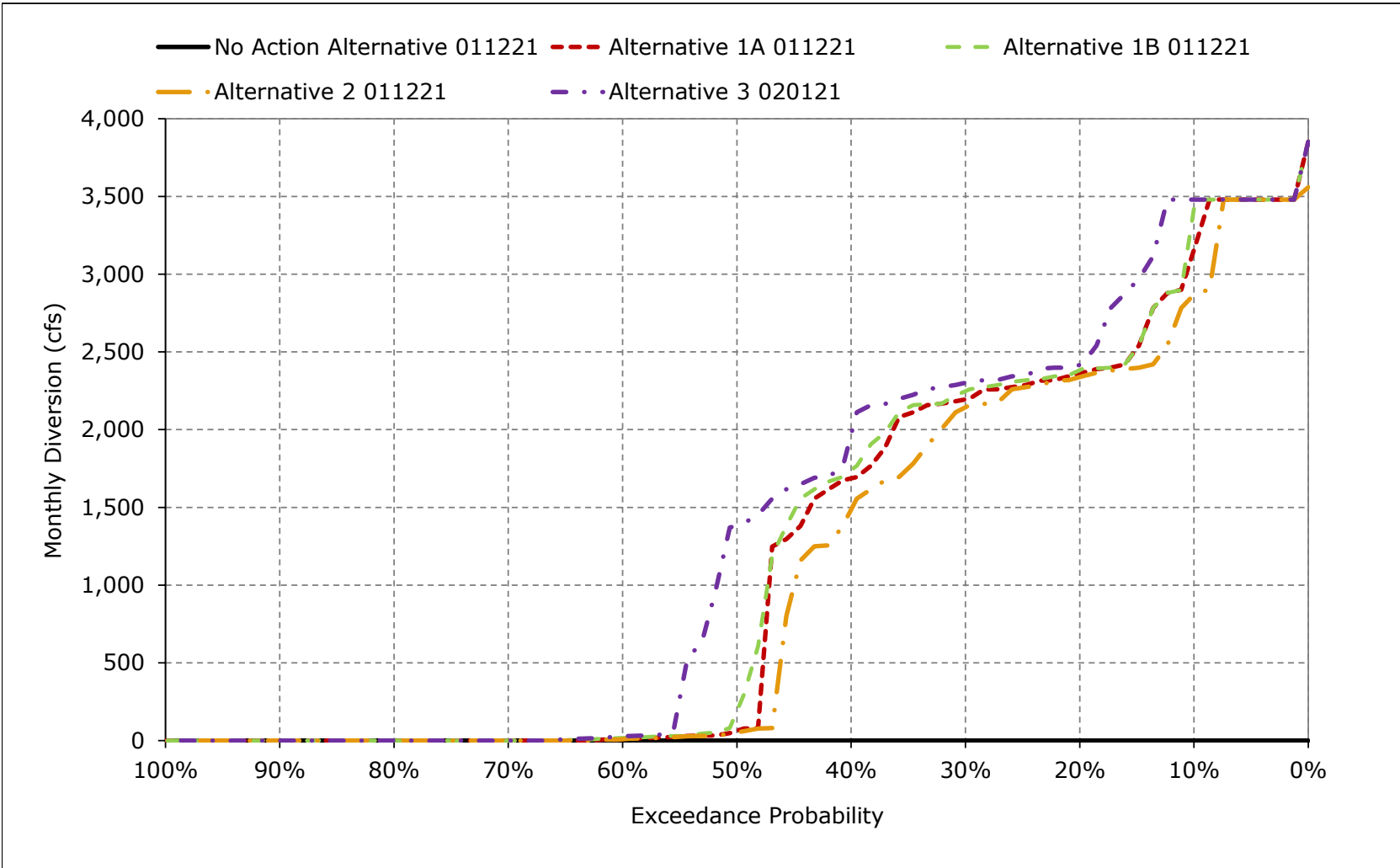
**Figure 5B1-3-10. Total Sites Diversions, January**



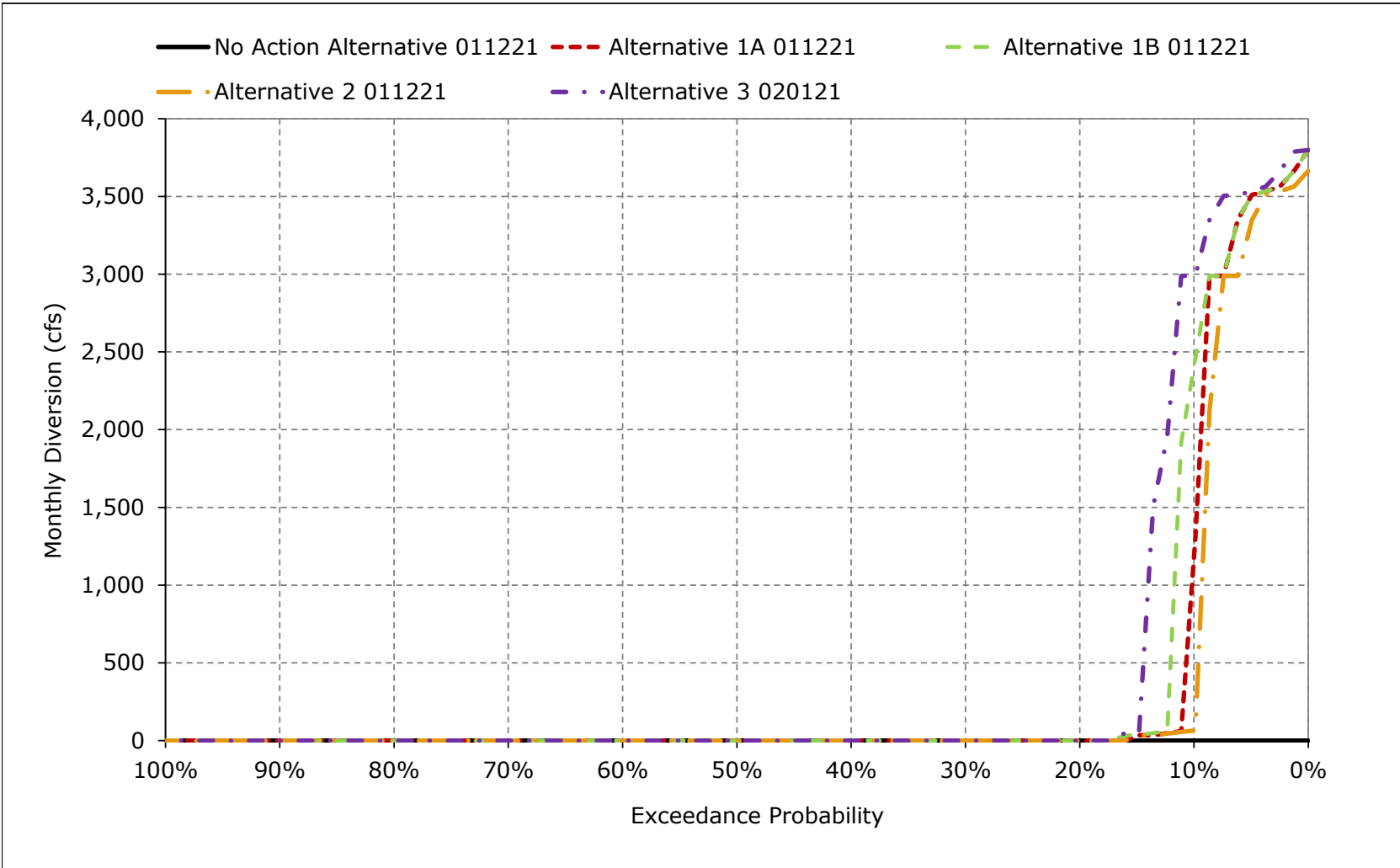
**Figure 5B1-3-11. Total Sites Diversions, February**



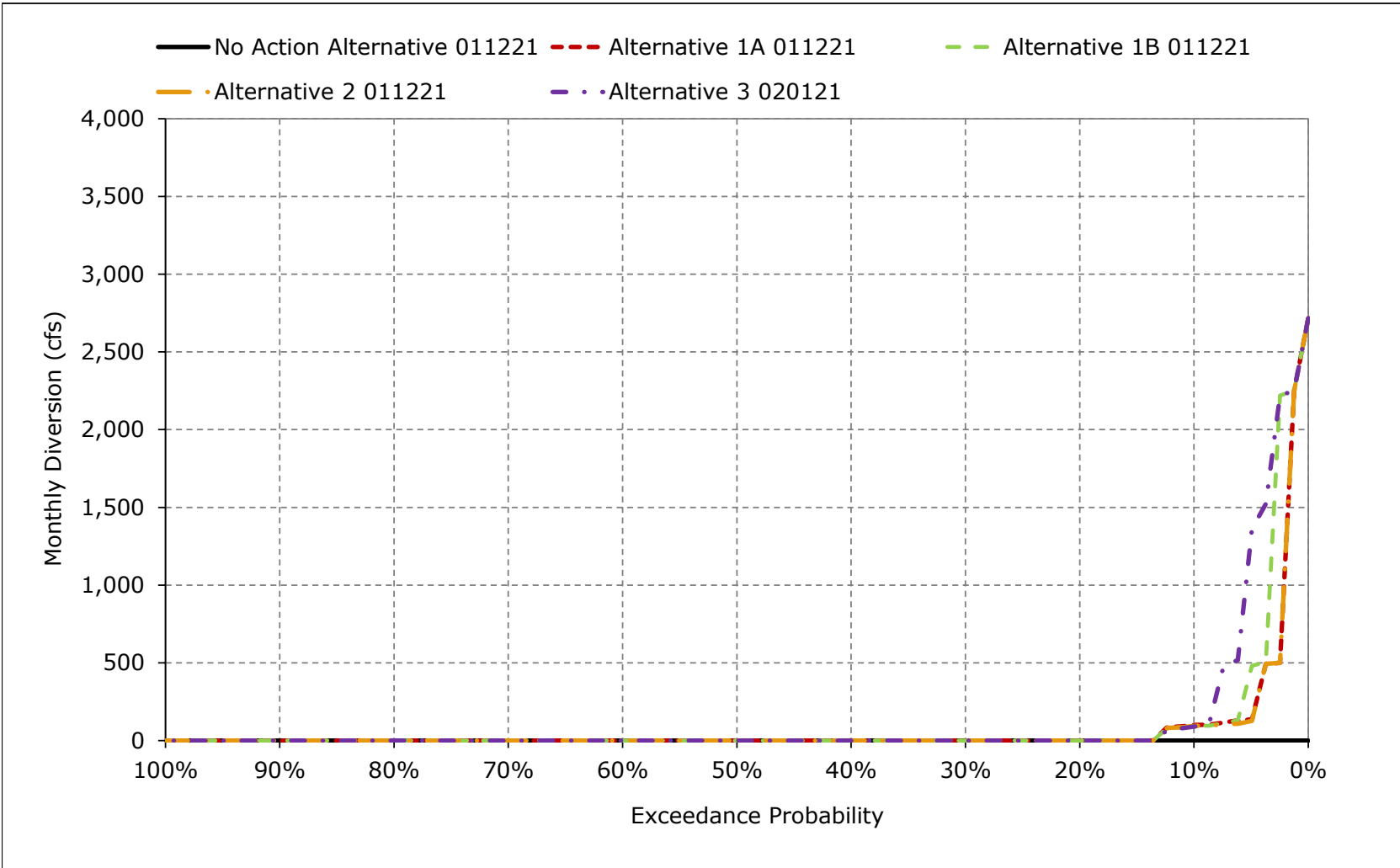
**Figure 5B1-3-12. Total Sites Diversions, March**



**Figure 5B1-3-13. Total Sites Diversions, April**

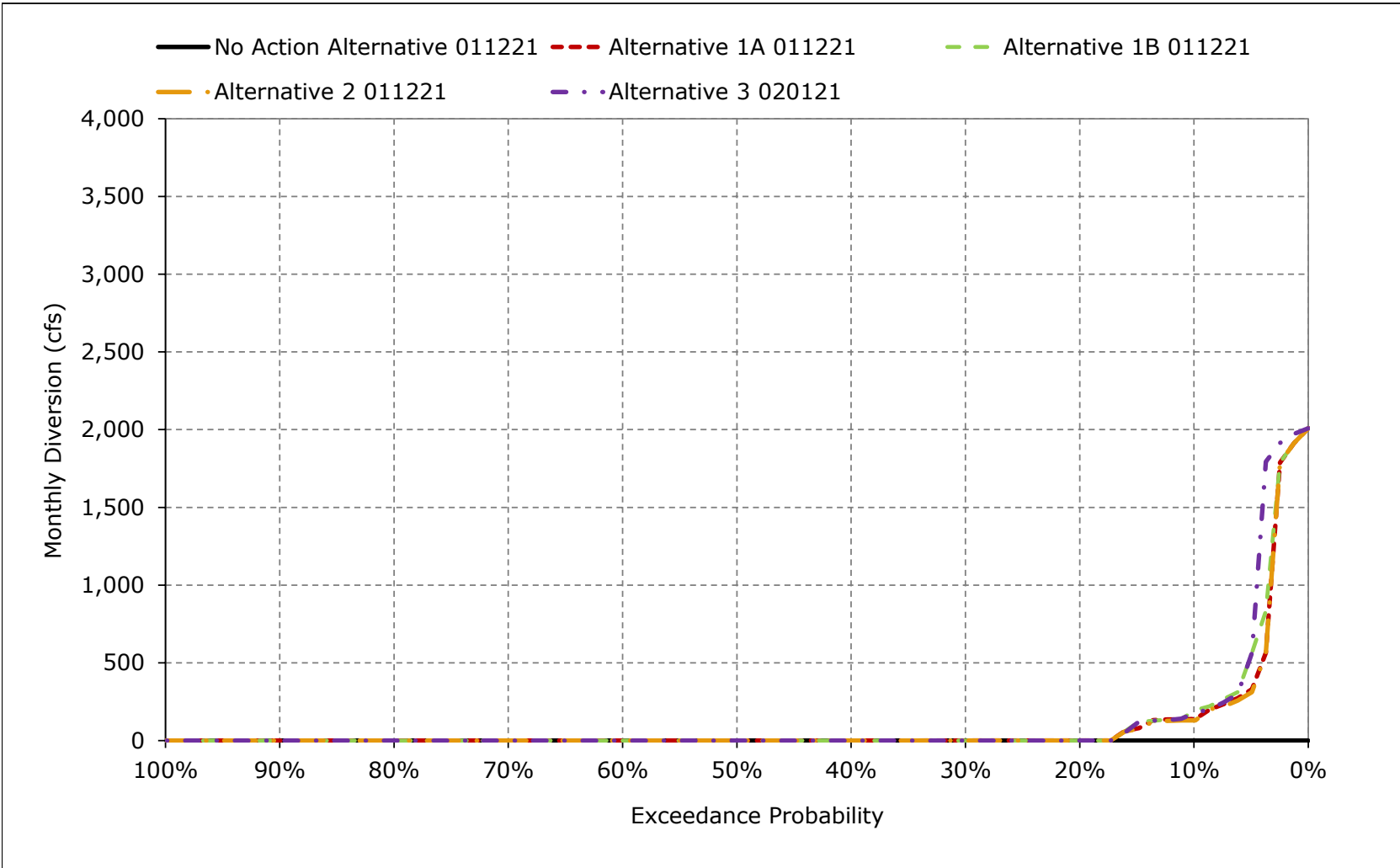


**Figure 5B1-3-14. Total Sites Diversions, May**

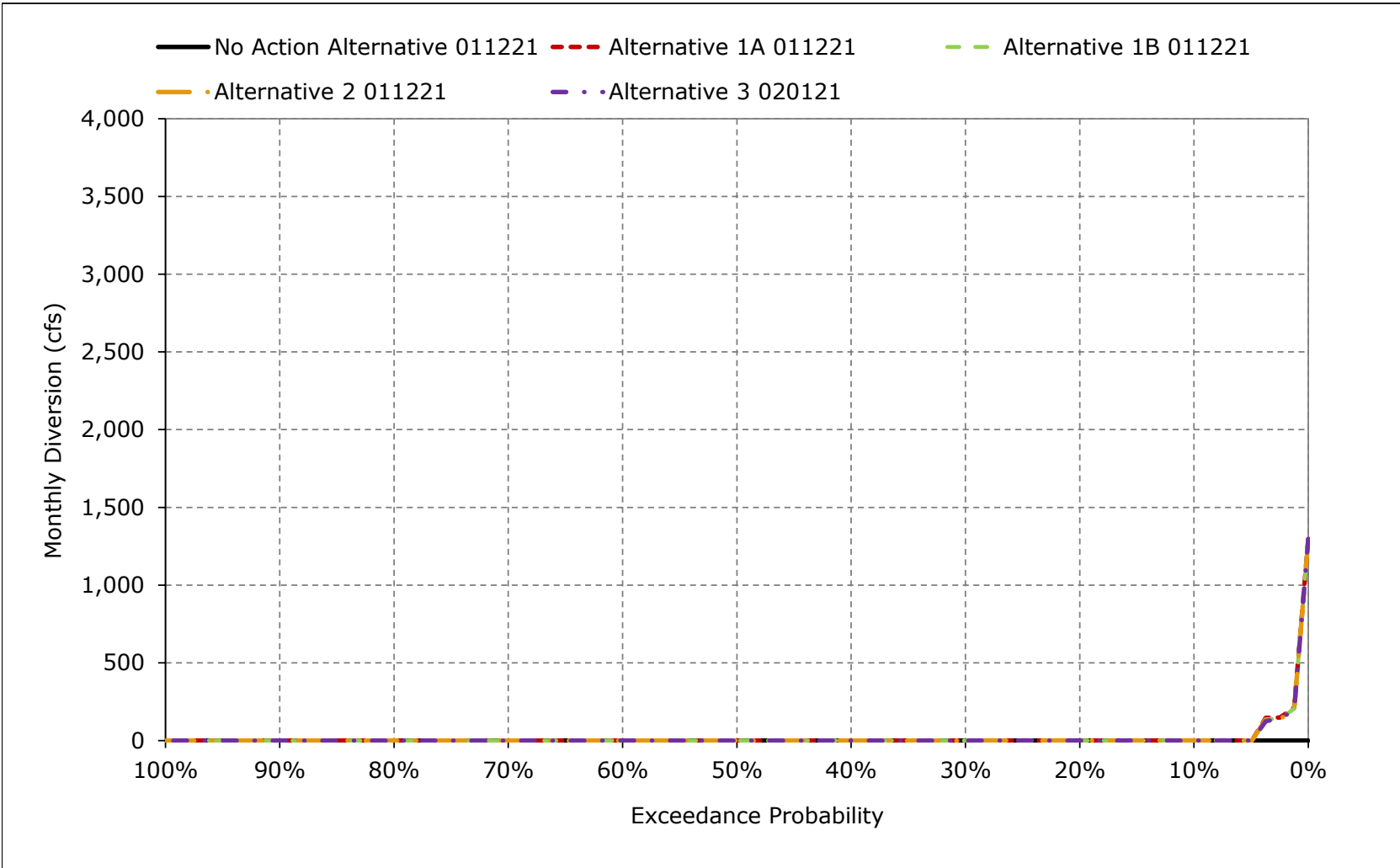




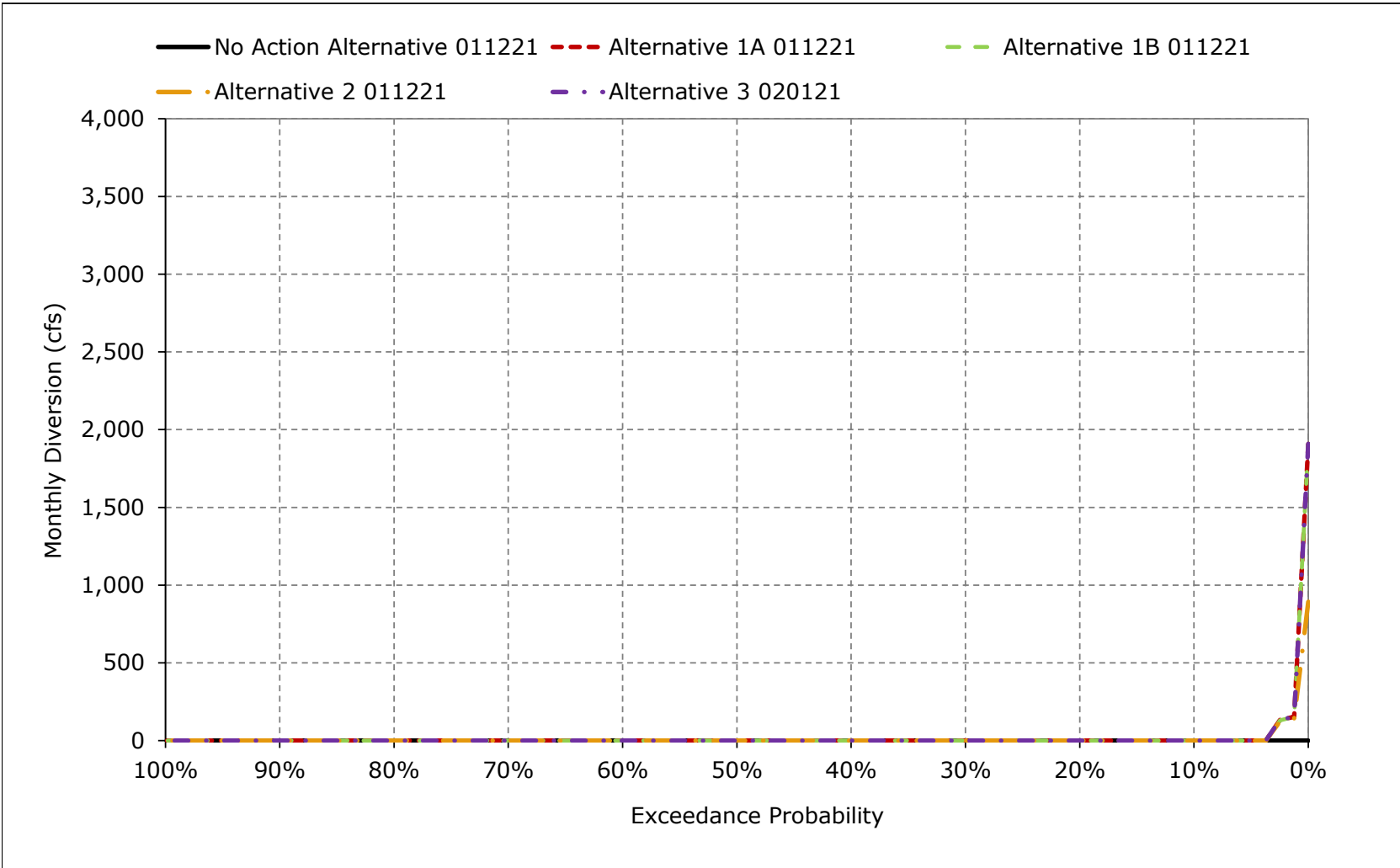
**Figure 5B1-3-15. Total Sites Diversions, June**



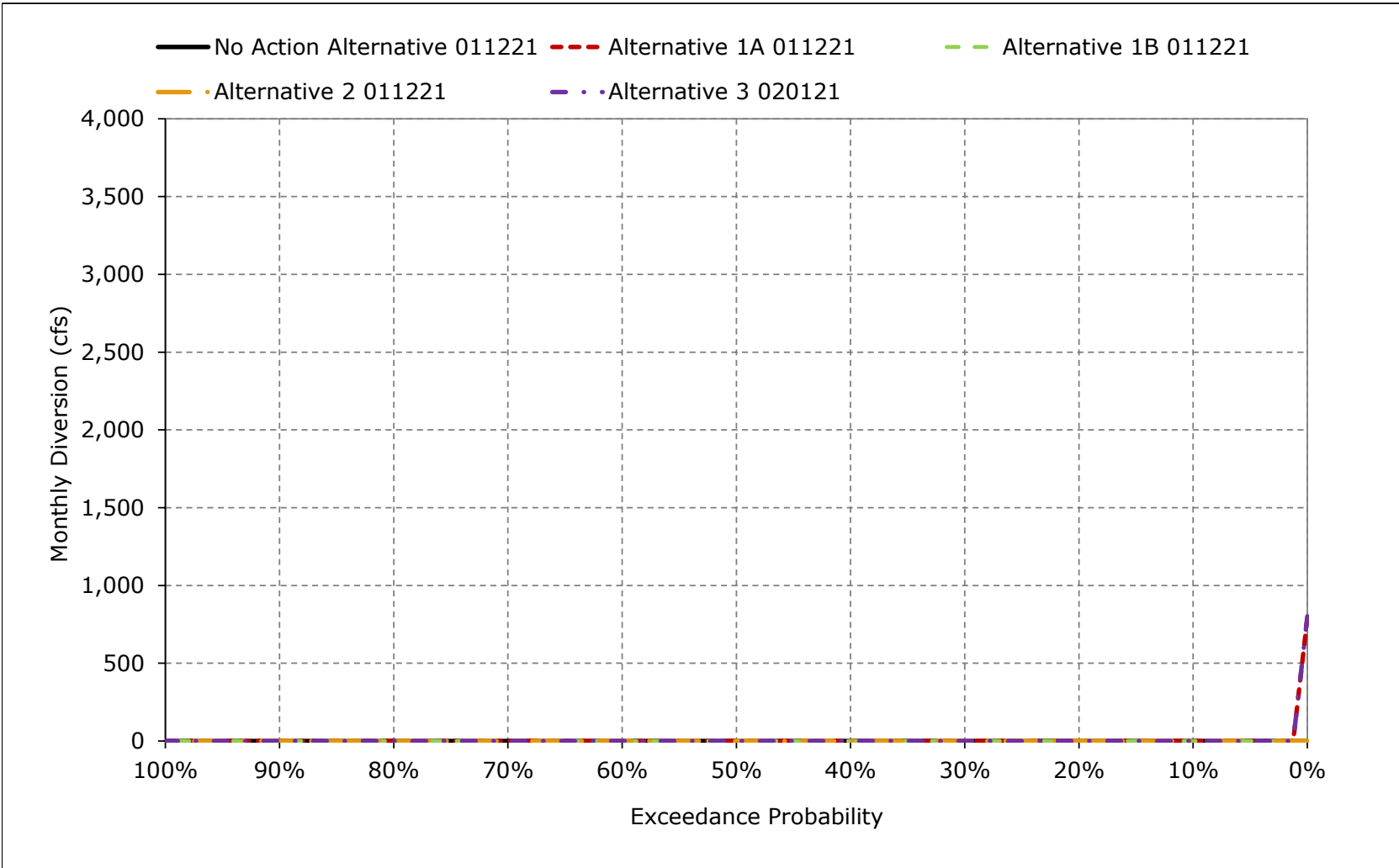
**Figure 5B1-3-16. Total Sites Diversions, July**



**Figure 5B1-3-17. Total Sites Diversions, August**



**Figure 5B1-3-18. Total Sites Diversions, September**



**Table 5B1-4-1a. Sites Release to Dunnigan Pipeline, No Action Alternative 011221, Monthly Flow (cfs)**

| Statistic                             | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <b>Probability of Exceedance</b>      |     |     |     |     |     |     |     |     |     |     |     |     |
| 10%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 20%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 30%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 40%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 50%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 60%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 70%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 80%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 90%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| <b>Long Term</b>                      |     |     |     |     |     |     |     |     |     |     |     |     |
| Full Simulation Period <sup>a</sup>   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |     |     |     |     |     |     |     |     |     |     |
| Wet (32%)                             | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Above Normal (15%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Below Normal (17%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Dry (22%)                             | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Critical (15%)                        | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |

**Table 5B1-4-1b. Sites Release to Dunnigan Pipeline, Alternative 1A 011221, Monthly Flow (cfs)**

| Statistic                             | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|
| <b>Probability of Exceedance</b>      |     |     |     |     |     |     |     |     |       |       |       |       |
| 10%                                   | 660 | 804 | 22  | 0   | 0   | 0   | 36  | 187 | 1,000 | 1,000 | 1,000 | 1,000 |
| 20%                                   | 449 | 59  | 0   | 0   | 0   | 0   | 0   | 0   | 934   | 1,000 | 1,000 | 997   |
| 30%                                   | 449 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 289   | 969   | 1,000 | 627   |
| 40%                                   | 449 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 414   | 471   | 464   |
| 50%                                   | 273 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0     | 449   | 464   |
| 60%                                   | 45  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0     | 449   | 464   |
| 70%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0     | 449   | 388   |
| 80%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0     | 274   | 50    |
| 90%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0     | 0     | 0     |
| <b>Long Term</b>                      |     |     |     |     |     |     |     |     |       |       |       |       |
| Full Simulation Period <sup>a</sup>   | 294 | 130 | 11  | 0   | 0   | 0   | 28  | 88  | 271   | 391   | 548   | 495   |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |     |     |     |     |     |     |       |       |       |       |
| Wet (32%)                             | 286 | 17  | 14  | 0   | 0   | 1   | 0   | 0   | 0     | 0     | 356   | 404   |
| Above Normal (15%)                    | 272 | 0   | 2   | 0   | 0   | 0   | 0   | 0   | 0     | 4     | 359   | 397   |
| Below Normal (17%)                    | 166 | 180 | 5   | 0   | 0   | 0   | 0   | 0   | 113   | 510   | 703   | 360   |
| Dry (22%)                             | 455 | 364 | 23  | 0   | 0   | 0   | 58  | 111 | 794   | 970   | 837   | 799   |
| Critical (15%)                        | 241 | 99  | 3   | 0   | 0   | 0   | 108 | 432 | 529   | 615   | 539   | 489   |

**Table 5B1-4-1c. Sites Release to Dunnigan Pipeline, Alternative 1A 011221 minus No Action Alternative 011221, Monthly Flow (cfs)**

| Statistic                             | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|
| <b>Probability of Exceedance</b>      |     |     |     |     |     |     |     |     |       |       |       |       |
| 10%                                   | 660 | 804 | 22  | 0   | 0   | 0   | 36  | 187 | 1,000 | 1,000 | 1,000 | 1,000 |
| 20%                                   | 449 | 59  | 0   | 0   | 0   | 0   | 0   | 0   | 934   | 1,000 | 1,000 | 997   |
| 30%                                   | 449 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 289   | 969   | 1,000 | 627   |
| 40%                                   | 449 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 414   | 471   | 464   |
| 50%                                   | 273 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0     | 449   | 464   |
| 60%                                   | 45  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0     | 449   | 464   |
| 70%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0     | 449   | 388   |
| 80%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0     | 274   | 50    |
| 90%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0     | 0     | 0     |
| <b>Long Term</b>                      |     |     |     |     |     |     |     |     |       |       |       |       |
| Full Simulation Period <sup>a</sup>   | 294 | 130 | 11  | 0   | 0   | 0   | 28  | 88  | 271   | 391   | 548   | 495   |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |     |     |     |     |     |     |       |       |       |       |
| Wet (32%)                             | 286 | 17  | 14  | 0   | 0   | 1   | 0   | 0   | 0     | 0     | 356   | 404   |
| Above Normal (15%)                    | 272 | 0   | 2   | 0   | 0   | 0   | 0   | 0   | 0     | 4     | 359   | 397   |
| Below Normal (17%)                    | 166 | 180 | 5   | 0   | 0   | 0   | 0   | 0   | 113   | 510   | 703   | 360   |
| Dry (22%)                             | 455 | 364 | 23  | 0   | 0   | 0   | 58  | 111 | 794   | 970   | 837   | 799   |
| Critical (15%)                        | 241 | 99  | 3   | 0   | 0   | 0   | 108 | 432 | 529   | 615   | 539   | 489   |

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).

c These results are displayed with calendar year - year type sorting.

**Table 5B1-4-2a. Sites Release to Dunnigan Pipeline, No Action Alternative 011221, Monthly Flow (cfs)**

| Statistic                             | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <b>Probability of Exceedance</b>      |     |     |     |     |     |     |     |     |     |     |     |     |
| 10%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 20%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 30%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 40%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 50%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 60%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 70%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 80%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 90%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| <b>Long Term</b>                      |     |     |     |     |     |     |     |     |     |     |     |     |
| Full Simulation Period <sup>a</sup>   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |     |     |     |     |     |     |     |     |     |     |
| Wet (32%)                             | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Above Normal (15%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Below Normal (17%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Dry (22%)                             | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Critical (15%)                        | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |

**Table 5B1-4-2b. Sites Release to Dunnigan Pipeline, Alternative 1B 011221, Monthly Flow (cfs)**

| Statistic                             | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|
| <b>Probability of Exceedance</b>      |     |     |     |     |     |     |     |     |       |       |       |       |
| 10%                                   | 672 | 351 | 139 | 0   | 0   | 0   | 36  | 198 | 1,000 | 1,000 | 1,000 | 1,000 |
| 20%                                   | 449 | 295 | 0   | 0   | 0   | 0   | 0   | 17  | 933   | 1,000 | 1,000 | 790   |
| 30%                                   | 449 | 4   | 0   | 0   | 0   | 0   | 0   | 0   | 485   | 912   | 1,000 | 489   |
| 40%                                   | 408 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 194   | 400   | 449   | 464   |
| 50%                                   | 82  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0     | 449   | 464   |
| 60%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0     | 449   | 464   |
| 70%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0     | 449   | 243   |
| 80%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0     | 226   | 22    |
| 90%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0     | 0     | 0     |
| <b>Long Term</b>                      |     |     |     |     |     |     |     |     |       |       |       |       |
| Full Simulation Period <sup>a</sup>   | 265 | 139 | 43  | 5   | 5   | 7   | 60  | 100 | 314   | 385   | 547   | 443   |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |     |     |     |     |     |     |       |       |       |       |
| Wet (32%)                             | 284 | 93  | 102 | 0   | 3   | 6   | 0   | 0   | 0     | 0     | 356   | 391   |
| Above Normal (15%)                    | 202 | 0   | 2   | 0   | 0   | 0   | 0   | 0   | 241   | 1     | 354   | 322   |
| Below Normal (17%)                    | 141 | 181 | 12  | 15  | 5   | 0   | 8   | 0   | 201   | 494   | 697   | 277   |
| Dry (22%)                             | 435 | 294 | 31  | 0   | 15  | 15  | 184 | 178 | 765   | 956   | 840   | 725   |
| Critical (15%)                        | 181 | 96  | 10  | 15  | 0   | 13  | 123 | 417 | 520   | 621   | 537   | 451   |

**Table 5B1-4-2c. Sites Release to Dunnigan Pipeline, Alternative 1B 011221 minus No Action Alternative 011221, Monthly Flow (cfs)**

| Statistic                             | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|
| <b>Probability of Exceedance</b>      |     |     |     |     |     |     |     |     |       |       |       |       |
| 10%                                   | 672 | 351 | 139 | 0   | 0   | 0   | 36  | 198 | 1,000 | 1,000 | 1,000 | 1,000 |
| 20%                                   | 449 | 295 | 0   | 0   | 0   | 0   | 0   | 17  | 933   | 1,000 | 1,000 | 790   |
| 30%                                   | 449 | 4   | 0   | 0   | 0   | 0   | 0   | 0   | 485   | 912   | 1,000 | 489   |
| 40%                                   | 408 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 194   | 400   | 449   | 464   |
| 50%                                   | 82  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0     | 449   | 464   |
| 60%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0     | 449   | 464   |
| 70%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0     | 449   | 243   |
| 80%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0     | 226   | 22    |
| 90%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0     | 0     | 0     |
| <b>Long Term</b>                      |     |     |     |     |     |     |     |     |       |       |       |       |
| Full Simulation Period <sup>a</sup>   | 265 | 139 | 43  | 5   | 5   | 7   | 60  | 100 | 314   | 385   | 547   | 443   |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |     |     |     |     |     |     |       |       |       |       |
| Wet (32%)                             | 284 | 93  | 102 | 0   | 3   | 6   | 0   | 0   | 0     | 0     | 356   | 391   |
| Above Normal (15%)                    | 202 | 0   | 2   | 0   | 0   | 0   | 0   | 0   | 241   | 1     | 354   | 322   |
| Below Normal (17%)                    | 141 | 181 | 12  | 15  | 5   | 0   | 8   | 0   | 201   | 494   | 697   | 277   |
| Dry (22%)                             | 435 | 294 | 31  | 0   | 15  | 15  | 184 | 178 | 765   | 956   | 840   | 725   |
| Critical (15%)                        | 181 | 96  | 10  | 15  | 0   | 13  | 123 | 417 | 520   | 621   | 537   | 451   |

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).

c These results are displayed with calendar year - year type sorting.

**Table 5B1-4-3a. Sites Release to Dunnigan Pipeline, No Action Alternative 011221, Monthly Flow (cfs)**

| Statistic                             | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <b>Probability of Exceedance</b>      |     |     |     |     |     |     |     |     |     |     |     |     |
| 10%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 20%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 30%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 40%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 50%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 60%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 70%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 80%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 90%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| <b>Long Term</b>                      |     |     |     |     |     |     |     |     |     |     |     |     |
| Full Simulation Period <sup>a</sup>   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |     |     |     |     |     |     |     |     |     |     |
| Wet (32%)                             | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Above Normal (15%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Below Normal (17%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Dry (22%)                             | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Critical (15%)                        | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |

**Table 5B1-4-3b. Sites Release to Dunnigan Pipeline, Alternative 2 011221, Monthly Flow (cfs)**

| Statistic                             | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|
| <b>Probability of Exceedance</b>      |     |     |     |     |     |     |     |     |       |       |       |       |
| 10%                                   | 583 | 311 | 32  | 0   | 0   | 0   | 36  | 188 | 1,000 | 1,000 | 1,000 | 1,000 |
| 20%                                   | 449 | 17  | 0   | 0   | 0   | 0   | 0   | 0   | 719   | 1,000 | 1,000 | 793   |
| 30%                                   | 449 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 281   | 935   | 1,000 | 464   |
| 40%                                   | 449 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 415   | 457   | 464   |
| 50%                                   | 200 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0     | 449   | 464   |
| 60%                                   | 50  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0     | 449   | 464   |
| 70%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0     | 449   | 404   |
| 80%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0     | 302   | 123   |
| 90%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0     | 0     | 0     |
| <b>Long Term</b>                      |     |     |     |     |     |     |     |     |       |       |       |       |
| Full Simulation Period <sup>a</sup>   | 270 | 102 | 13  | 0   | 0   | 0   | 29  | 87  | 257   | 388   | 554   | 473   |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |     |     |     |     |     |     |       |       |       |       |
| Wet (32%)                             | 272 | 15  | 17  | 0   | 0   | 1   | 0   | 0   | 0     | 0     | 356   | 437   |
| Above Normal (15%)                    | 274 | 2   | 2   | 0   | 0   | 0   | 0   | 0   | 0     | 4     | 381   | 398   |
| Below Normal (17%)                    | 185 | 218 | 5   | 0   | 0   | 0   | 0   | 0   | 113   | 509   | 728   | 425   |
| Dry (22%)                             | 397 | 206 | 26  | 0   | 0   | 0   | 58  | 111 | 750   | 966   | 858   | 692   |
| Critical (15%)                        | 169 | 100 | 3   | 0   | 0   | 0   | 109 | 425 | 497   | 605   | 495   | 356   |

**Table 5B1-4-3c. Sites Release to Dunnigan Pipeline, Alternative 2 011221 minus No Action Alternative 011221, Monthly Flow (cfs)**

| Statistic                             | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|
| <b>Probability of Exceedance</b>      |     |     |     |     |     |     |     |     |       |       |       |       |
| 10%                                   | 583 | 311 | 32  | 0   | 0   | 0   | 36  | 188 | 1,000 | 1,000 | 1,000 | 1,000 |
| 20%                                   | 449 | 17  | 0   | 0   | 0   | 0   | 0   | 0   | 719   | 1,000 | 1,000 | 793   |
| 30%                                   | 449 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 281   | 935   | 1,000 | 464   |
| 40%                                   | 449 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 415   | 457   | 464   |
| 50%                                   | 200 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0     | 449   | 464   |
| 60%                                   | 50  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0     | 449   | 464   |
| 70%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0     | 449   | 404   |
| 80%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0     | 302   | 123   |
| 90%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0     | 0     | 0     |
| <b>Long Term</b>                      |     |     |     |     |     |     |     |     |       |       |       |       |
| Full Simulation Period <sup>a</sup>   | 270 | 102 | 13  | 0   | 0   | 0   | 29  | 87  | 257   | 388   | 554   | 473   |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |     |     |     |     |     |     |       |       |       |       |
| Wet (32%)                             | 272 | 15  | 17  | 0   | 0   | 1   | 0   | 0   | 0     | 0     | 356   | 437   |
| Above Normal (15%)                    | 274 | 2   | 2   | 0   | 0   | 0   | 0   | 0   | 0     | 4     | 381   | 398   |
| Below Normal (17%)                    | 185 | 218 | 5   | 0   | 0   | 0   | 0   | 0   | 113   | 509   | 728   | 425   |
| Dry (22%)                             | 397 | 206 | 26  | 0   | 0   | 0   | 58  | 111 | 750   | 966   | 858   | 692   |
| Critical (15%)                        | 169 | 100 | 3   | 0   | 0   | 0   | 109 | 425 | 497   | 605   | 495   | 356   |

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).

c These results are displayed with calendar year - year type sorting.

**Table 5B1-4-4a. Sites Release to Dunnigan Pipeline, No Action Alternative 011221, Monthly Flow (cfs)**

| Statistic                             | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <b>Probability of Exceedance</b>      |     |     |     |     |     |     |     |     |     |     |     |     |
| 10%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 20%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 30%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 40%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 50%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 60%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 70%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 80%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 90%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| <b>Long Term</b>                      |     |     |     |     |     |     |     |     |     |     |     |     |
| Full Simulation Period <sup>a</sup>   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |     |     |     |     |     |     |     |     |     |     |
| Wet (32%)                             | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Above Normal (15%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Below Normal (17%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Dry (22%)                             | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Critical (15%)                        | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |

**Table 5B1-4-4b. Sites Release to Dunnigan Pipeline, Alternative 3 020121, Monthly Flow (cfs)**

| Statistic                             | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|
| <b>Probability of Exceedance</b>      |     |     |     |     |     |     |     |     |       |       |       |       |
| 10%                                   | 662 | 300 | 70  | 0   | 0   | 0   | 133 | 486 | 1,000 | 1,000 | 1,000 | 1,000 |
| 20%                                   | 449 | 59  | 0   | 0   | 0   | 0   | 0   | 1   | 834   | 1,000 | 1,000 | 634   |
| 30%                                   | 449 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 480   | 975   | 901   | 464   |
| 40%                                   | 281 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 214   | 487   | 462   | 464   |
| 50%                                   | 2   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 38    | 16    | 449   | 459   |
| 60%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0     | 449   | 321   |
| 70%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0     | 449   | 127   |
| 80%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0     | 4     | 0     |
| 90%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0     | 0     | 0     |
| <b>Long Term</b>                      |     |     |     |     |     |     |     |     |       |       |       |       |
| Full Simulation Period <sup>a</sup>   | 233 | 91  | 39  | 3   | 8   | 21  | 57  | 109 | 307   | 397   | 519   | 385   |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |     |     |     |     |     |     |       |       |       |       |
| Wet (32%)                             | 239 | 81  | 102 | 0   | 4   | 5   | 0   | 0   | 0     | 0     | 356   | 382   |
| Above Normal (15%)                    | 272 | 0   | 2   | 0   | 0   | 0   | 0   | 0   | 313   | 8     | 508   | 416   |
| Below Normal (17%)                    | 159 | 102 | 11  | 0   | 19  | 0   | 8   | 0   | 287   | 606   | 642   | 274   |
| Dry (22%)                             | 333 | 163 | 12  | 0   | 0   | 38  | 156 | 231 | 656   | 936   | 732   | 568   |
| Critical (15%)                        | 118 | 83  | 10  | 19  | 21  | 78  | 148 | 396 | 464   | 593   | 417   | 218   |

**Table 5B1-4-4c. Sites Release to Dunnigan Pipeline, Alternative 3 020121 minus No Action Alternative 011221, Monthly Flow (cfs)**

| Statistic                             | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|
| <b>Probability of Exceedance</b>      |     |     |     |     |     |     |     |     |       |       |       |       |
| 10%                                   | 662 | 300 | 70  | 0   | 0   | 0   | 133 | 486 | 1,000 | 1,000 | 1,000 | 1,000 |
| 20%                                   | 449 | 59  | 0   | 0   | 0   | 0   | 0   | 1   | 834   | 1,000 | 1,000 | 634   |
| 30%                                   | 449 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 480   | 975   | 901   | 464   |
| 40%                                   | 281 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 214   | 487   | 462   | 464   |
| 50%                                   | 2   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 38    | 16    | 449   | 459   |
| 60%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0     | 449   | 321   |
| 70%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0     | 449   | 127   |
| 80%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0     | 4     | 0     |
| 90%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0     | 0     | 0     |
| <b>Long Term</b>                      |     |     |     |     |     |     |     |     |       |       |       |       |
| Full Simulation Period <sup>a</sup>   | 233 | 91  | 39  | 3   | 8   | 21  | 57  | 109 | 307   | 397   | 519   | 385   |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |     |     |     |     |     |     |       |       |       |       |
| Wet (32%)                             | 239 | 81  | 102 | 0   | 4   | 5   | 0   | 0   | 0     | 0     | 356   | 382   |
| Above Normal (15%)                    | 272 | 0   | 2   | 0   | 0   | 0   | 0   | 0   | 313   | 8     | 508   | 416   |
| Below Normal (17%)                    | 159 | 102 | 11  | 0   | 19  | 0   | 8   | 0   | 287   | 606   | 642   | 274   |
| Dry (22%)                             | 333 | 163 | 12  | 0   | 0   | 38  | 156 | 231 | 656   | 936   | 732   | 568   |
| Critical (15%)                        | 118 | 83  | 10  | 19  | 21  | 78  | 148 | 396 | 464   | 593   | 417   | 218   |

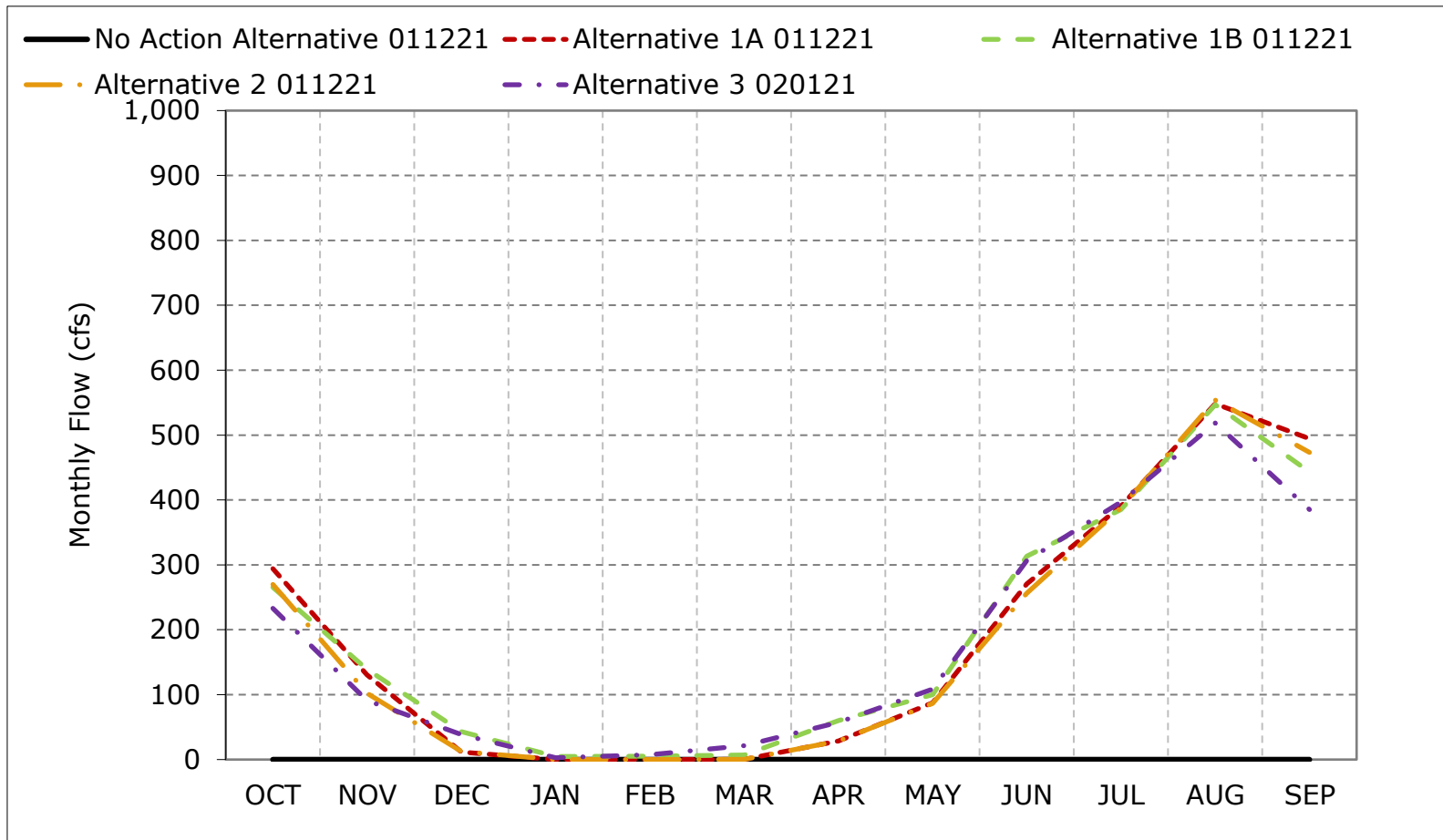
a Based on the 82-year simulation period.

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

c These results are displayed with calendar year - year type sorting.



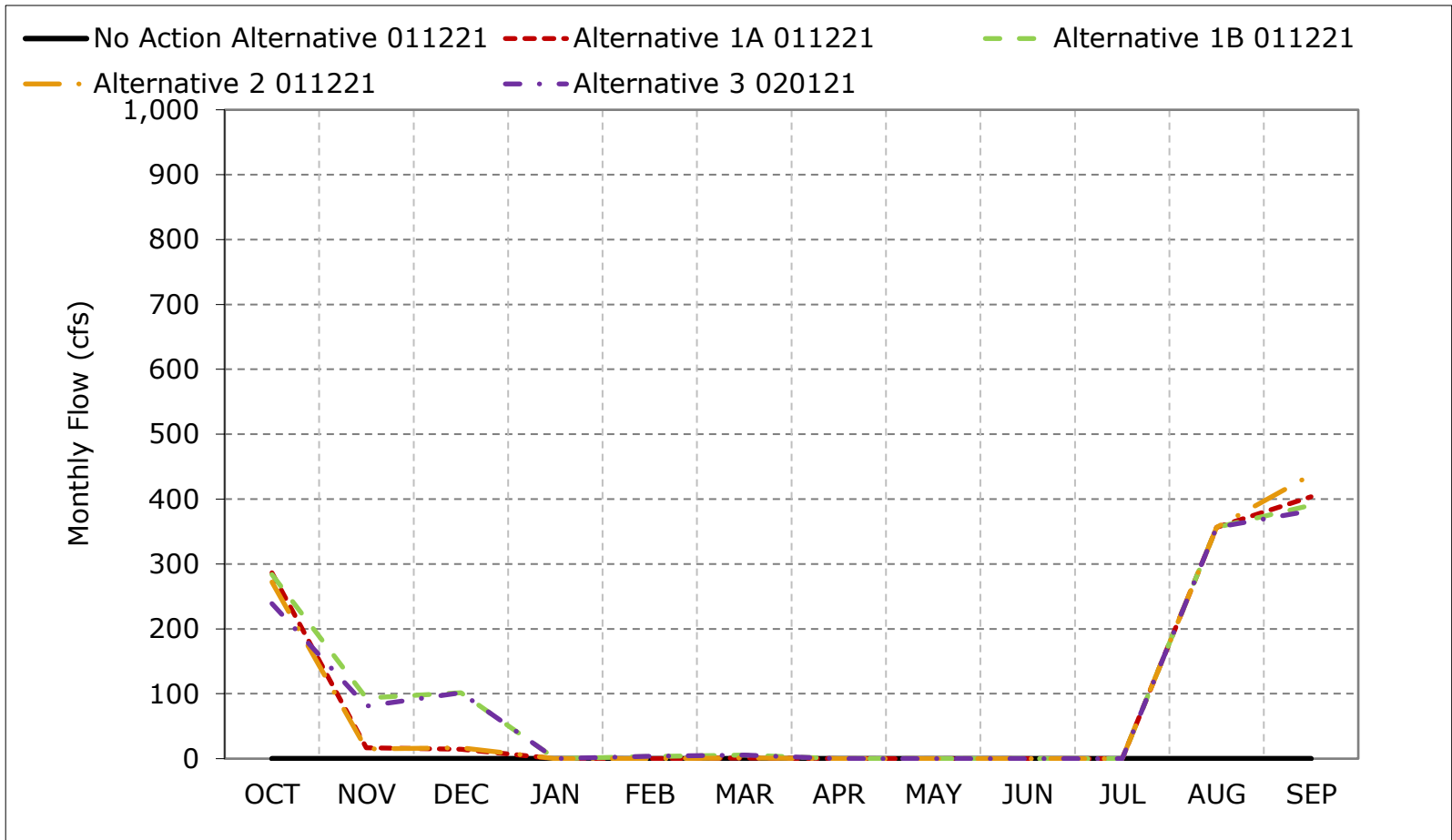
**Figure 5B1-4-1. Sites Release to Dunnigan Pipeline, Long-Term Average Flow**



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

\*These results are displayed with calendar year - year type sorting.

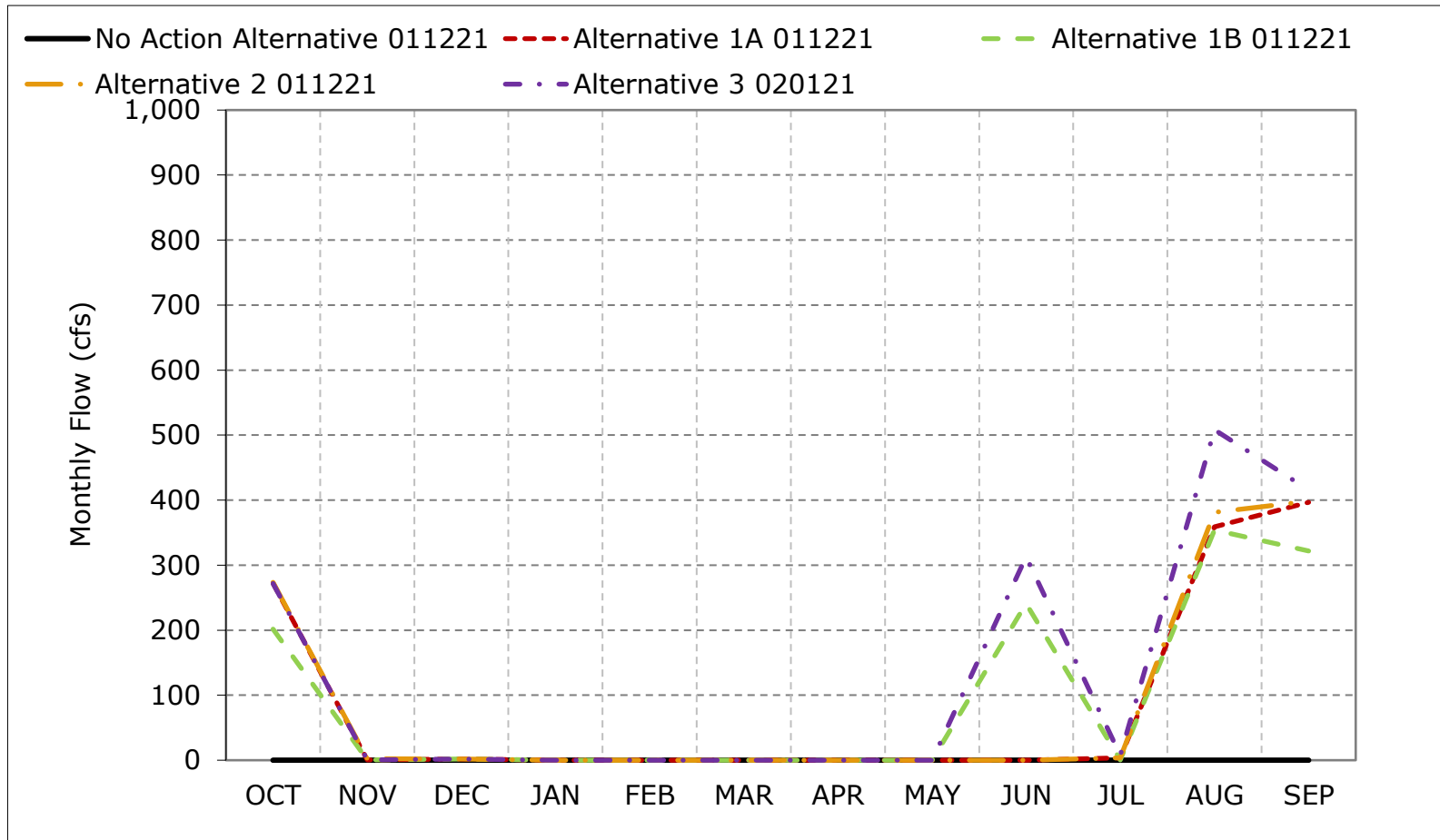
**Figure 5B1-4-2. Sites Release to Dunnigan Pipeline, Wet Year Average Flow**



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

\*These results are displayed with calendar year - year type sorting.

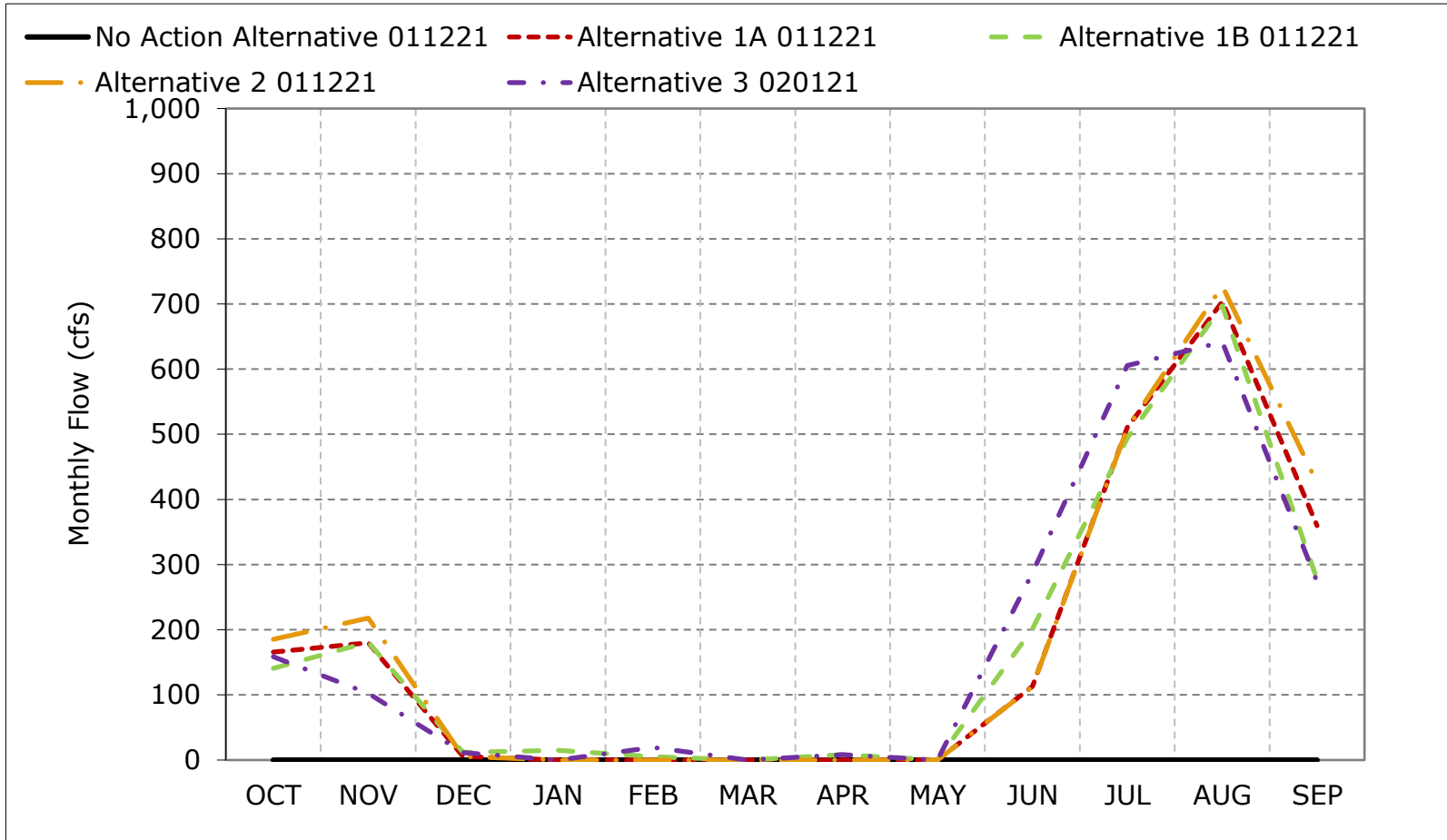
**Figure 5B1-4-3. Sites Release to Dunnigan Pipeline, Above Normal Year Average Flow**



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

\*These results are displayed with calendar year - year type sorting.

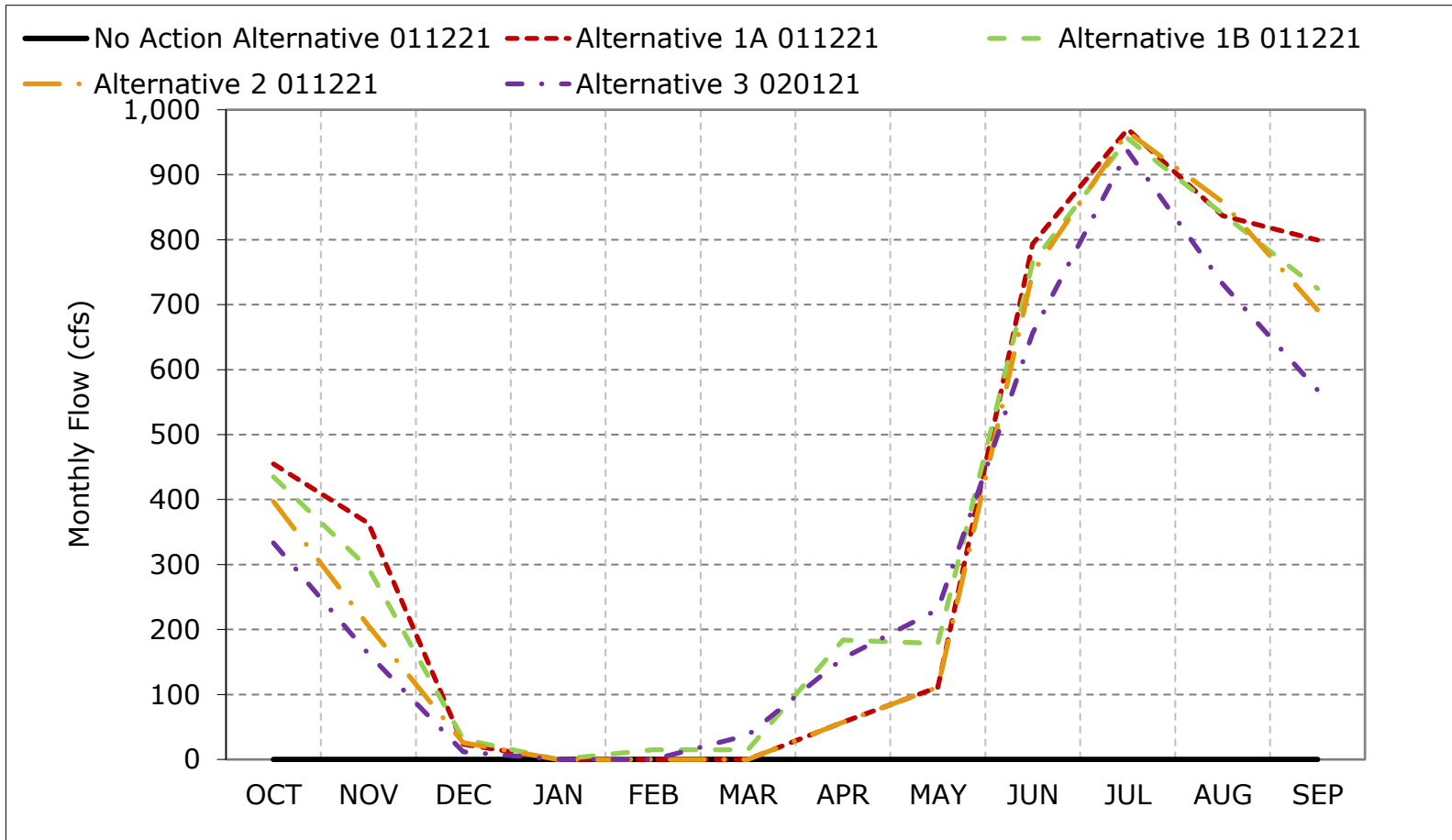
**Figure 5B1-4-4. Sites Release to Dunnigan Pipeline, Below Normal Year Average Flow**



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

\*These results are displayed with calendar year - year type sorting.

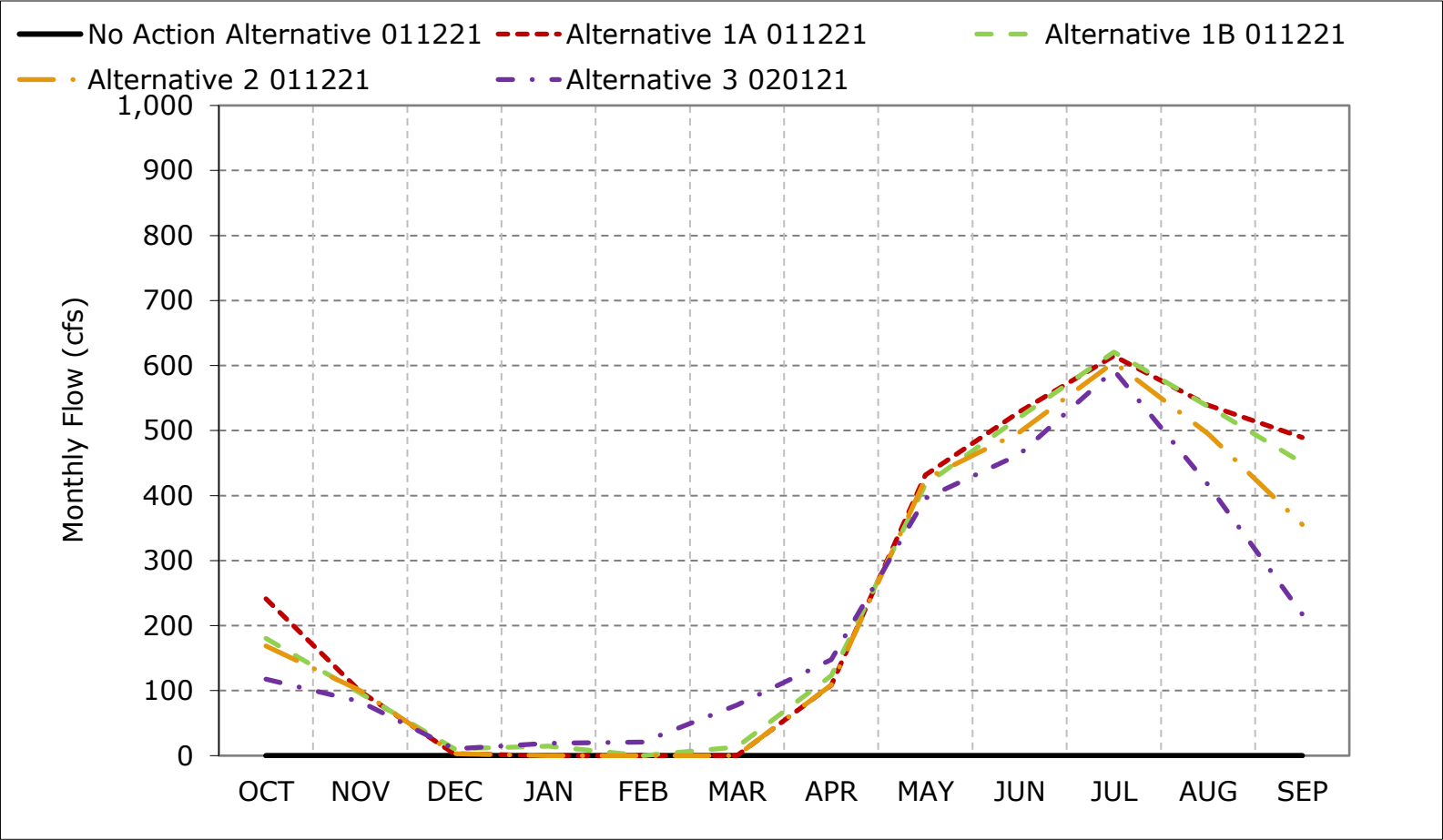
**Figure 5B1-4-5. Sites Release to Dunnigan Pipeline, Dry Year Average Flow**



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

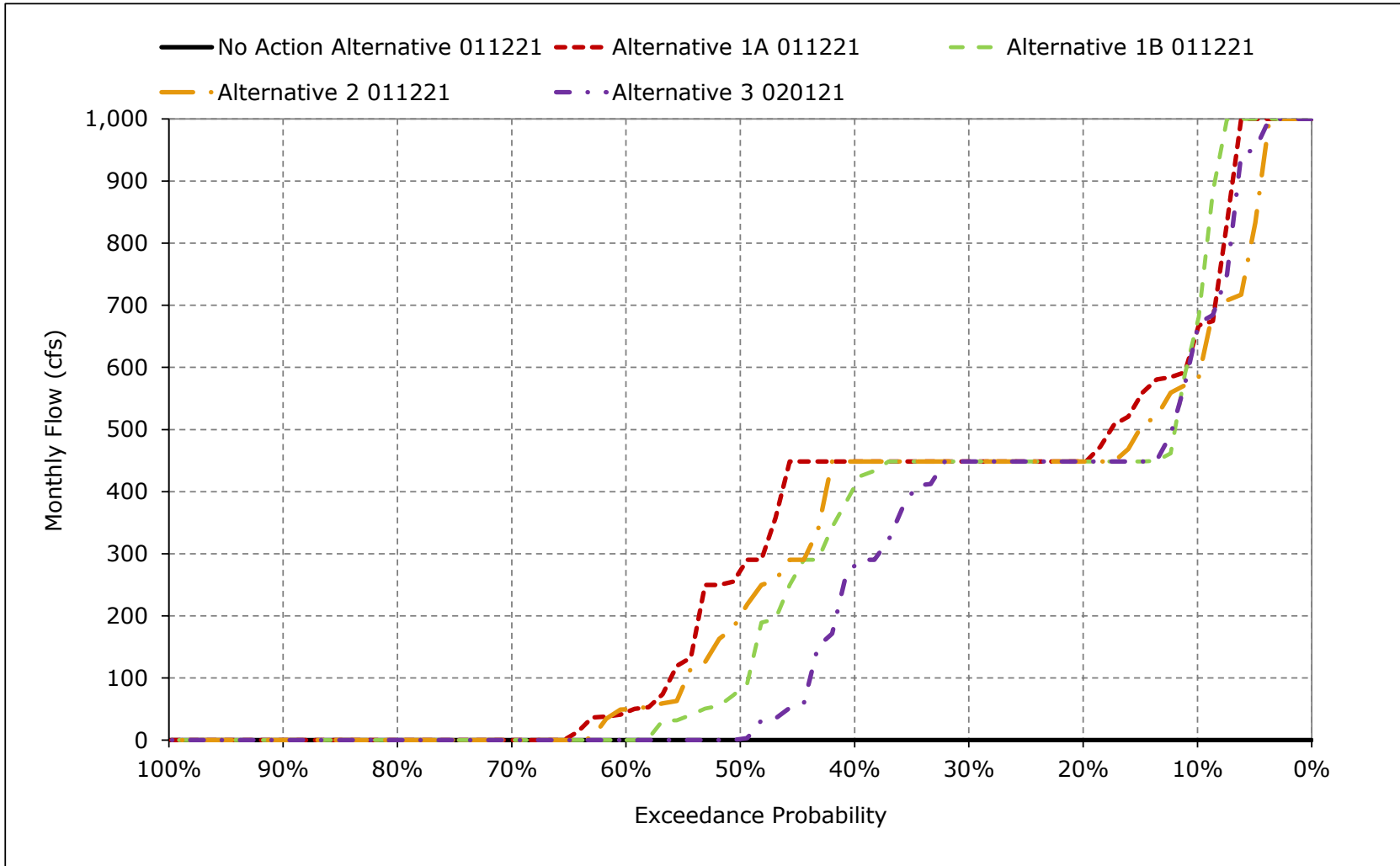
\*These results are displayed with calendar year - year type sorting.

**Figure 5B1-4-6. Sites Release to Dunnigan Pipeline, Critical Year Average Flow**

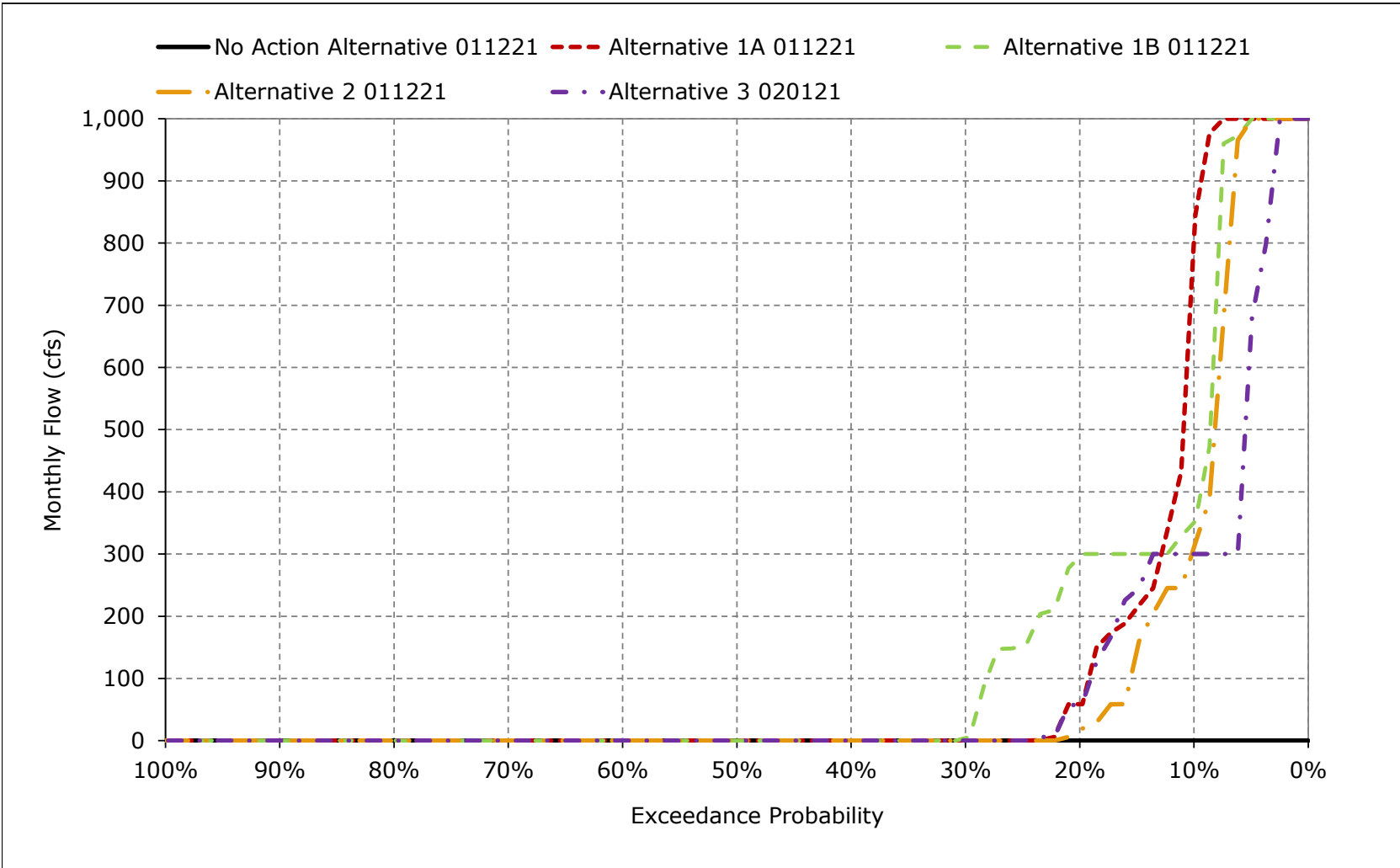


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
 \*These results are displayed with calendar year - year type sorting.

**Figure 5B1-4-7. Sites Release to Dunnigan Pipeline, October**

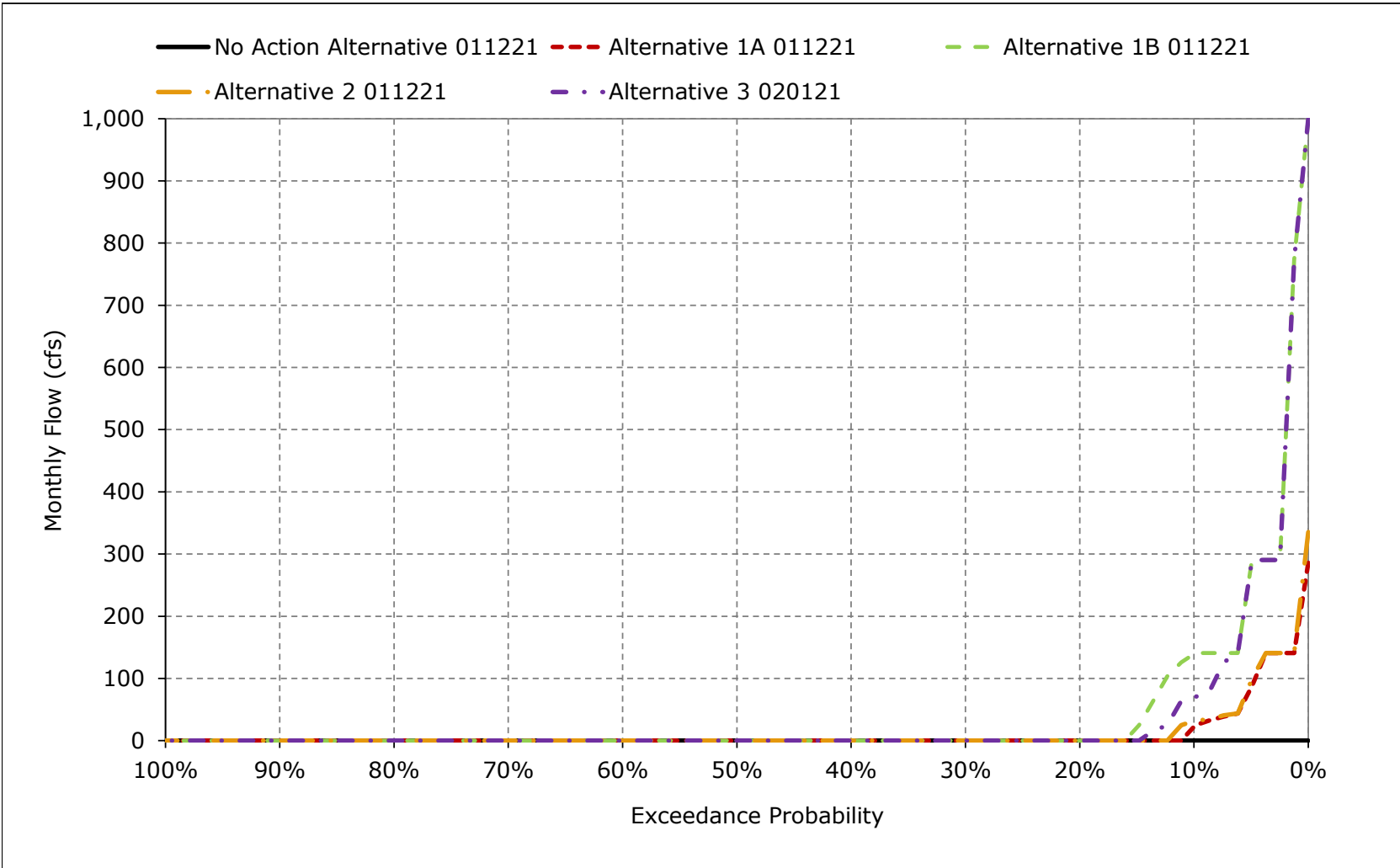


**Figure 5B1-4-8. Sites Release to Dunnigan Pipeline, November**

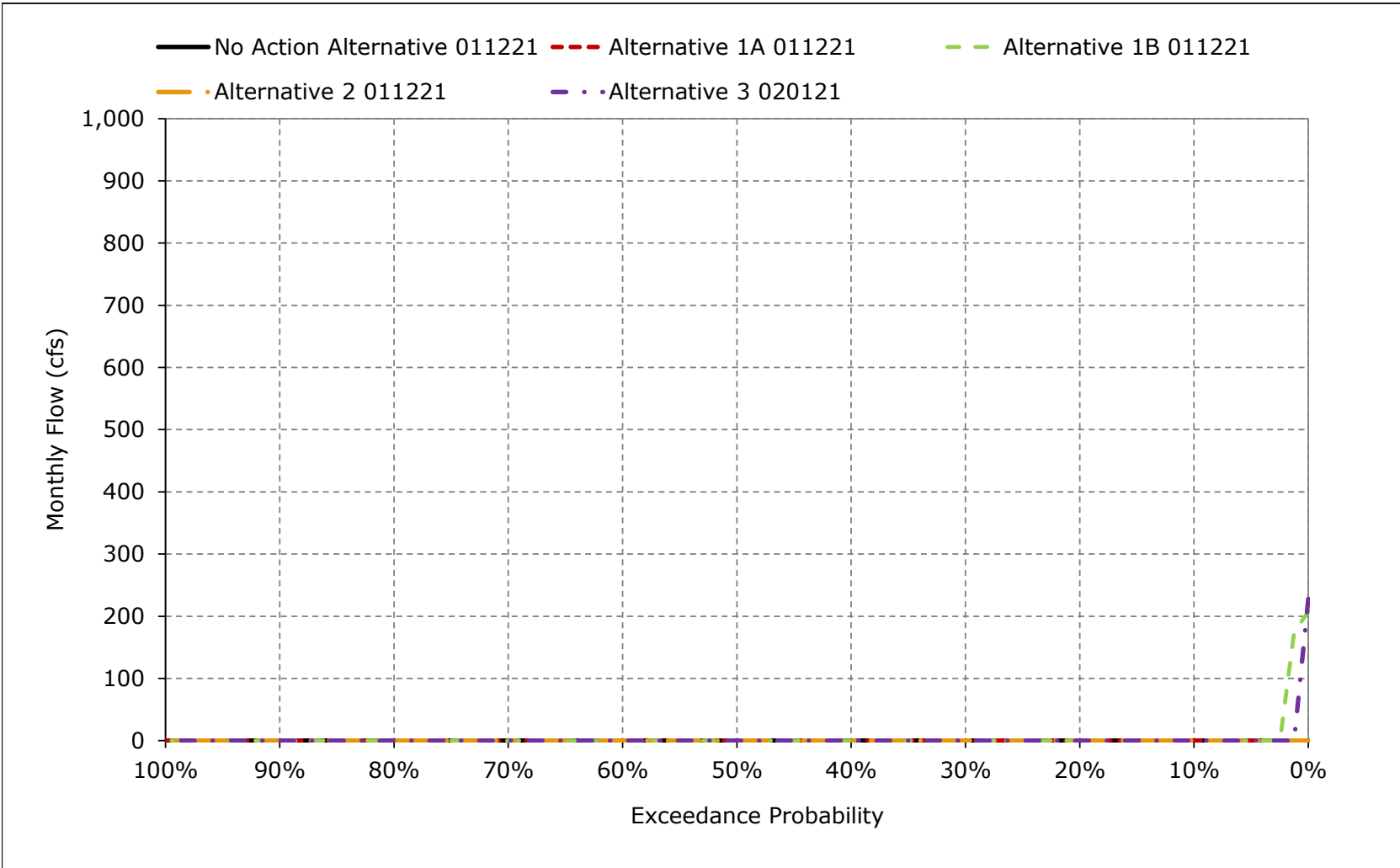




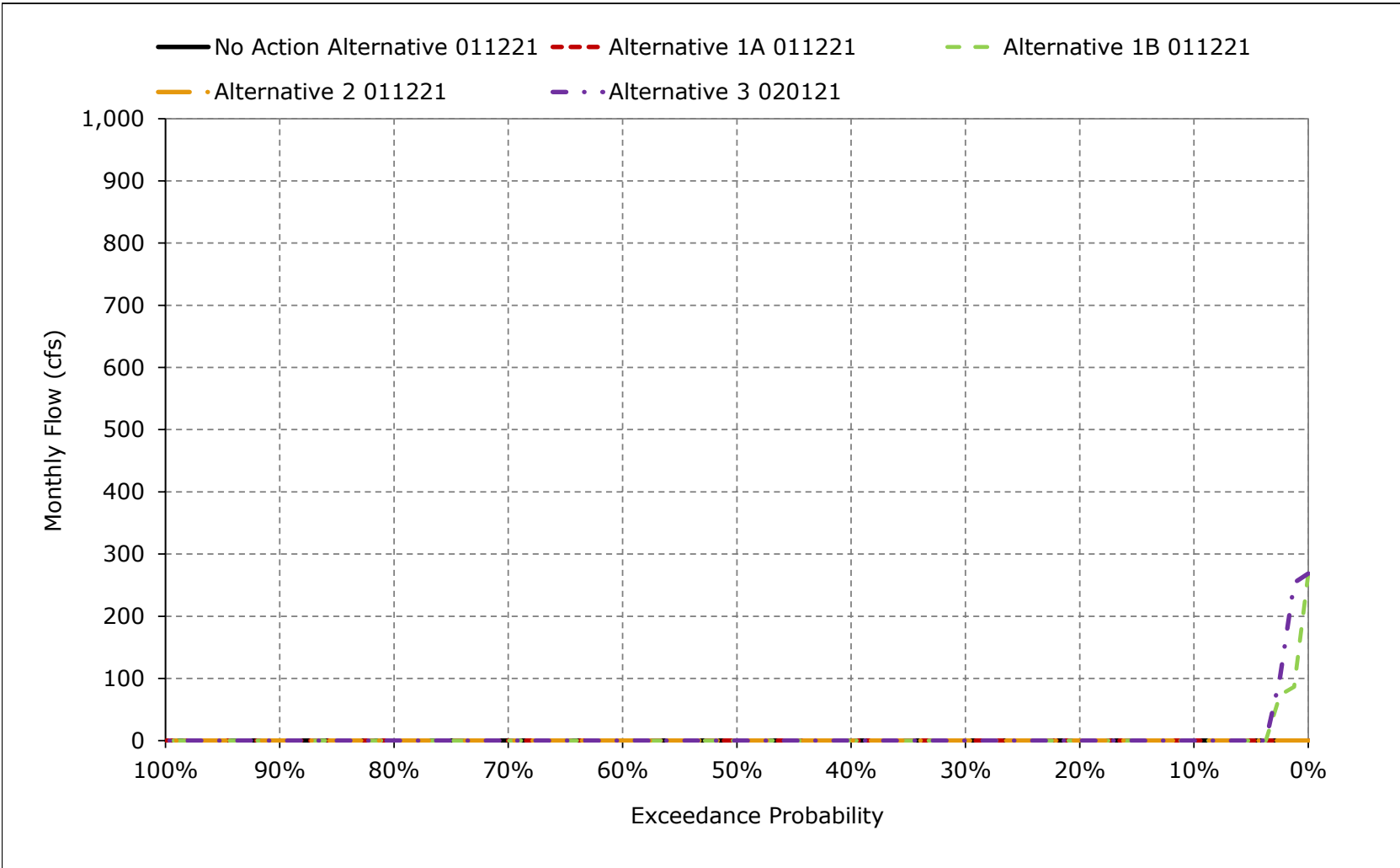
**Figure 5B1-4-9. Sites Release to Dunnigan Pipeline, December**



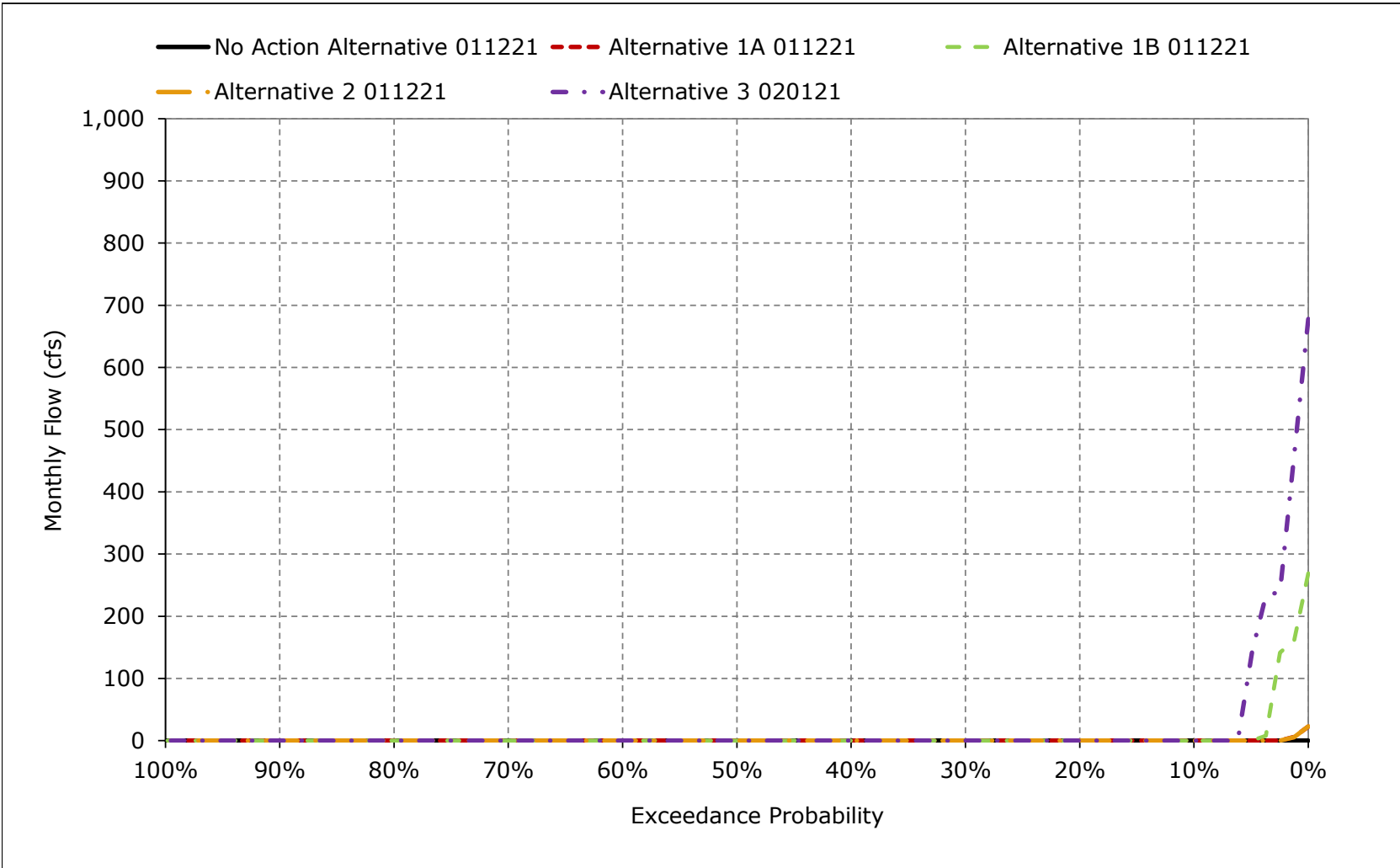
**Figure 5B1-4-10. Sites Release to Dunnigan Pipeline, January**



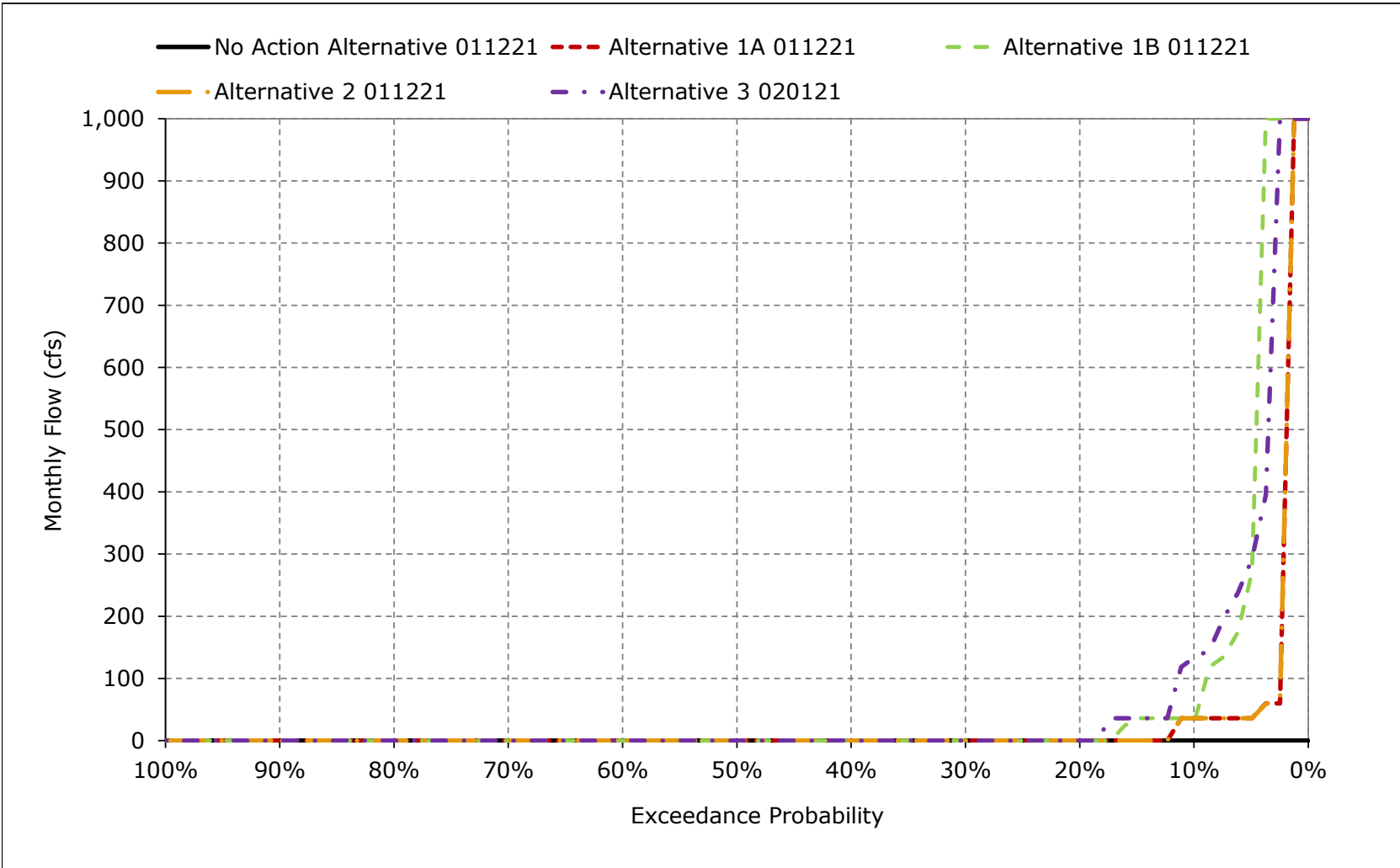
**Figure 5B1-4-11. Sites Release to Dunnigan Pipeline, February**



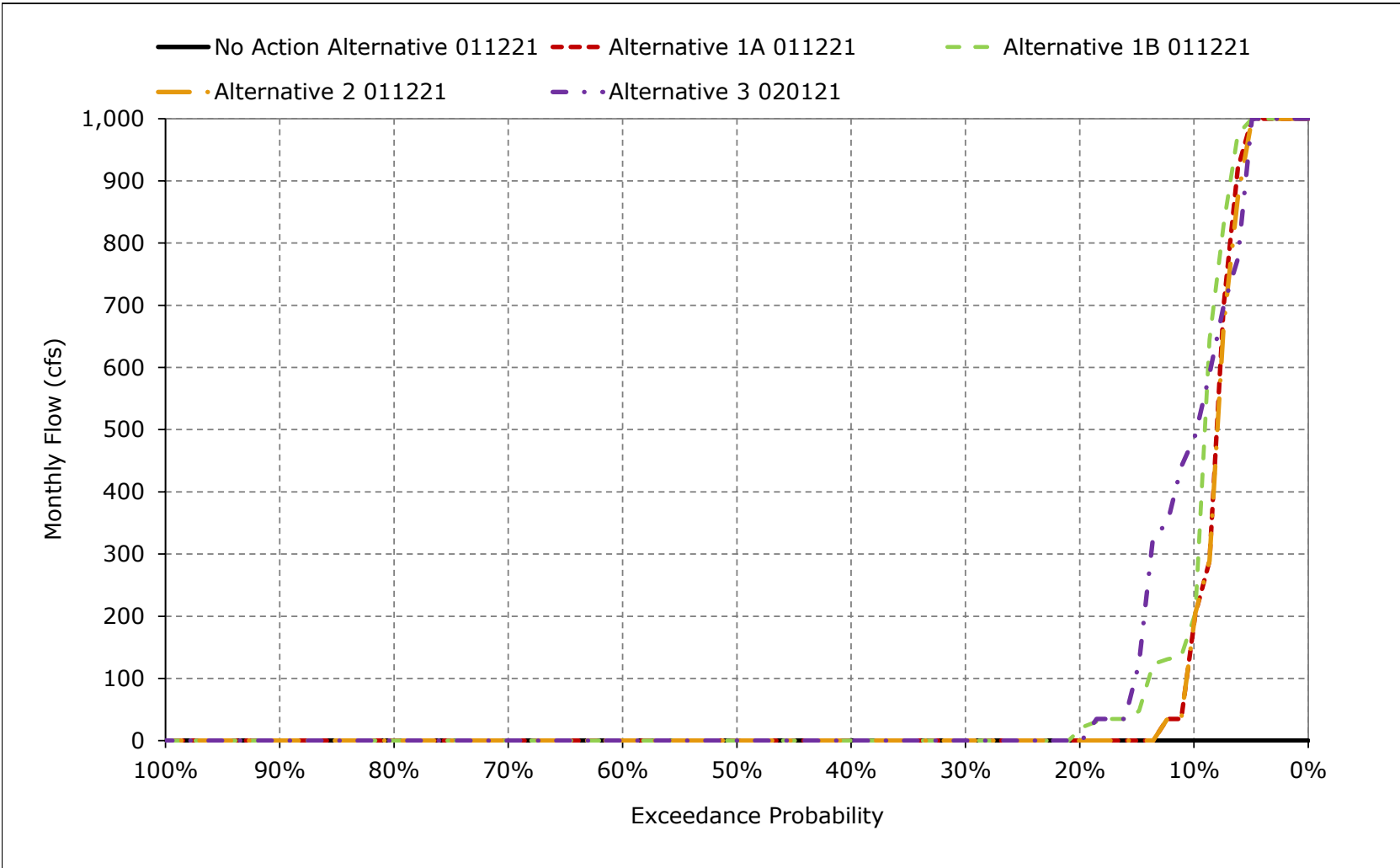
**Figure 5B1-4-12. Sites Release to Dunnigan Pipeline, March**



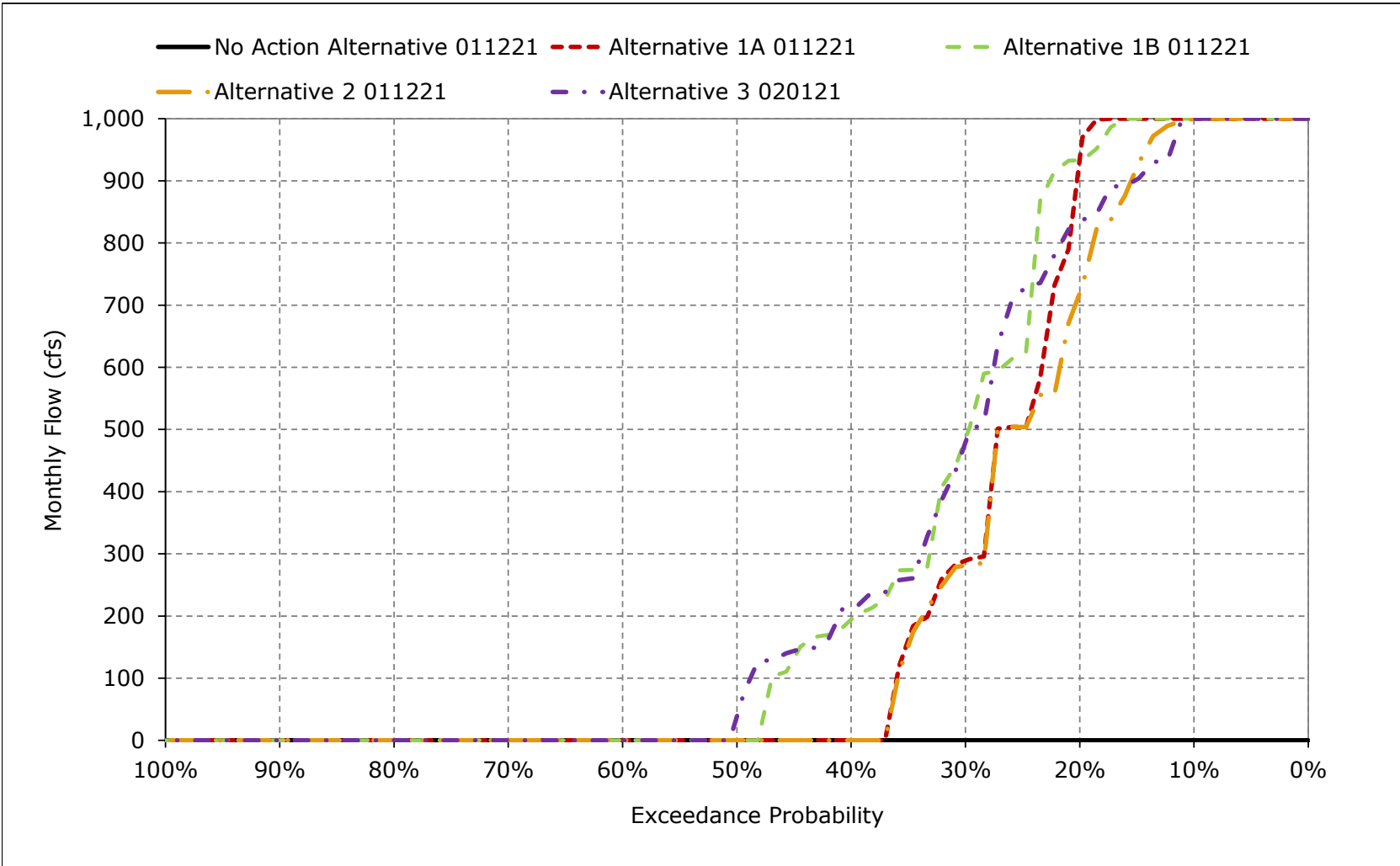
**Figure 5B1-4-13. Sites Release to Dunnigan Pipeline, April**



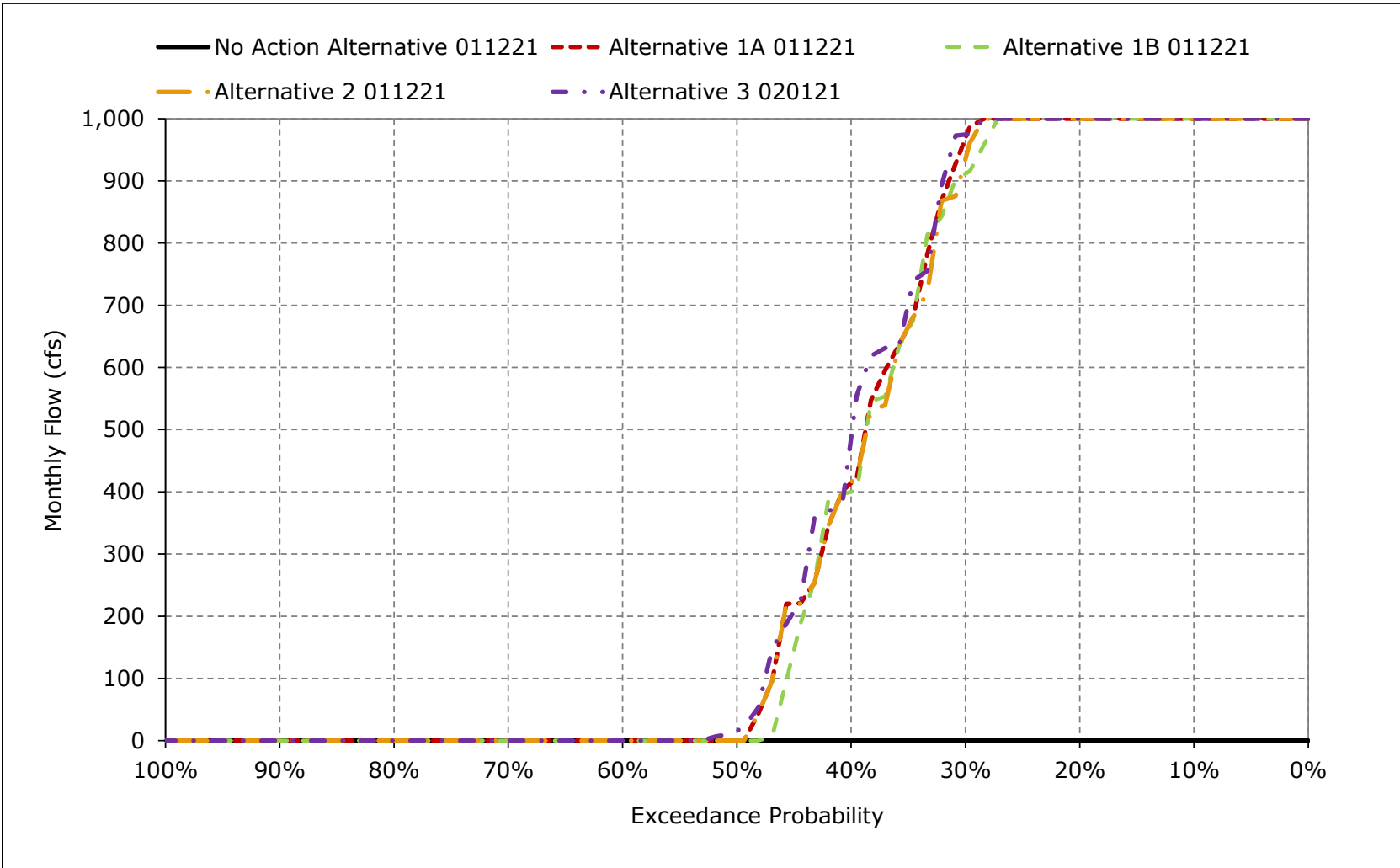
**Figure 5B1-4-14. Sites Release to Dunnigan Pipeline, May**



**Figure 5B1-4-15. Sites Release to Dunnigan Pipeline, June**

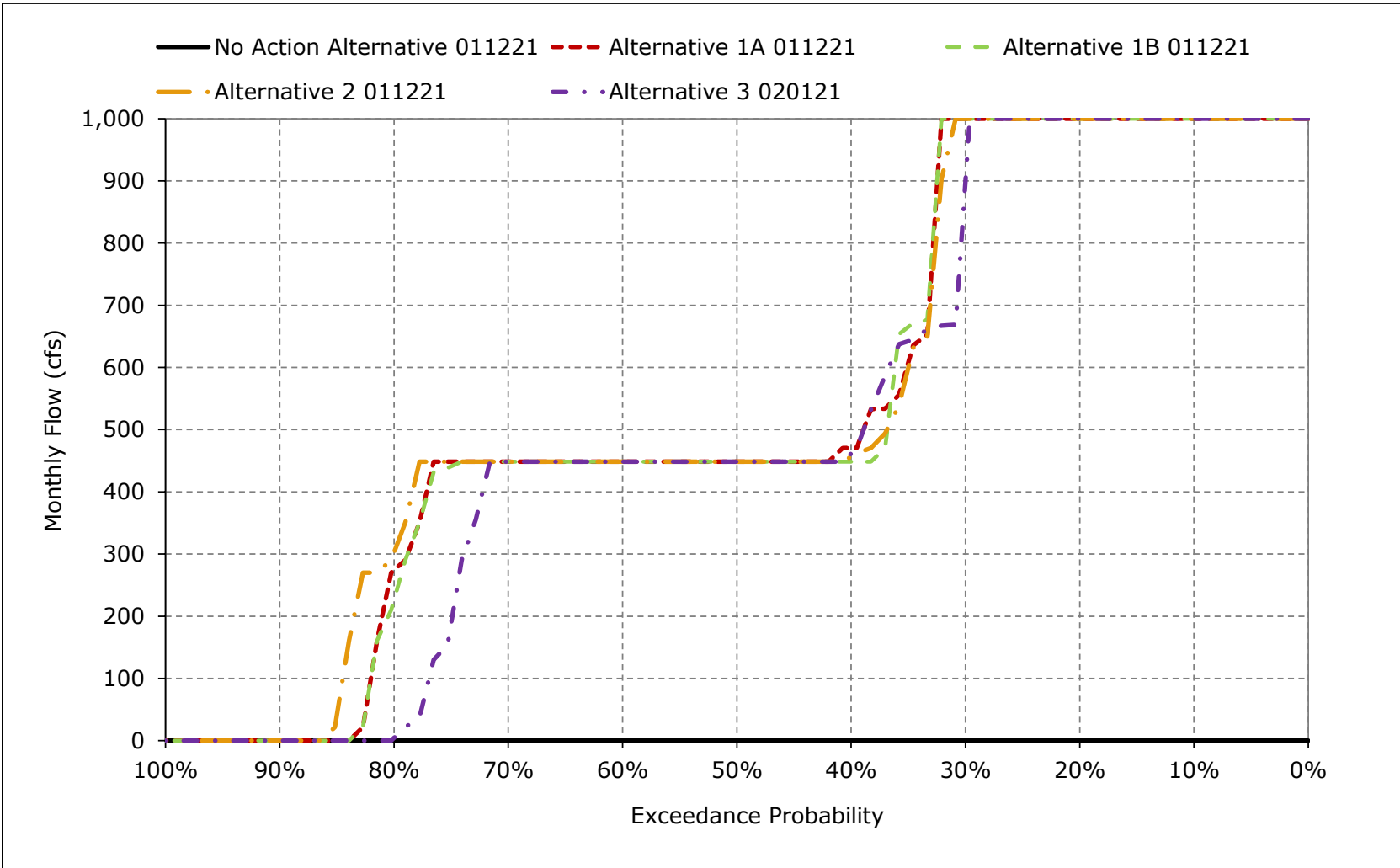


**Figure 5B1-4-16. Sites Release to Dunnigan Pipeline, July**

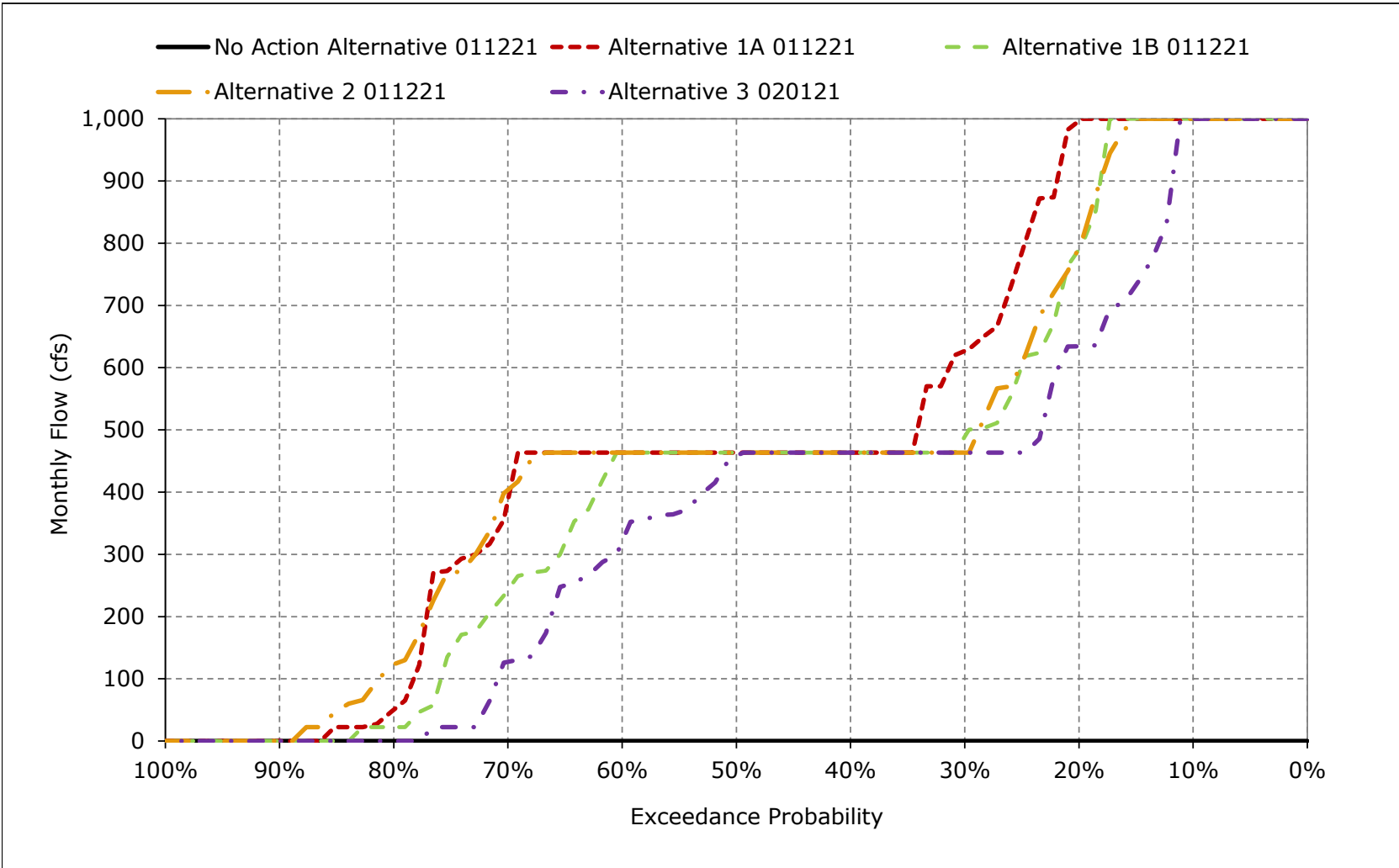




**Figure 5B1-4-17. Sites Release to Dunnigan Pipeline, August**



**Figure 5B1-4-18. Sites Release to Dunnigan Pipeline, September**



**Table 5B1-5-1a. Sites Release to Yolo Bypass, No Action Alternative 011221, Monthly Flow (cfs)**

| Statistic                             | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <b>Probability of Exceedance</b>      |     |     |     |     |     |     |     |     |     |     |     |     |
| 10%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 20%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 30%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 40%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 50%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 60%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 70%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 80%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 90%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| <b>Long Term</b>                      |     |     |     |     |     |     |     |     |     |     |     |     |
| Full Simulation Period <sup>a</sup>   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |     |     |     |     |     |     |     |     |     |     |
| Wet (32%)                             | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Above Normal (15%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Below Normal (17%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Dry (22%)                             | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Critical (15%)                        | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |

**Table 5B1-5-1b. Sites Release to Yolo Bypass, Alternative 1A 011221, Monthly Flow (cfs)**

| Statistic                             | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <b>Probability of Exceedance</b>      |     |     |     |     |     |     |     |     |     |     |     |     |
| 10%                                   | 449 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 449 | 464 |
| 20%                                   | 449 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 449 | 464 |
| 30%                                   | 449 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 449 | 464 |
| 40%                                   | 250 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 449 | 464 |
| 50%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 449 | 375 |
| 60%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 278 | 281 |
| 70%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 2   |
| 80%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 90%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| <b>Long Term</b>                      |     |     |     |     |     |     |     |     |     |     |     |     |
| Full Simulation Period <sup>a</sup>   | 181 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 272 | 277 |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |     |     |     |     |     |     |     |     |     |     |
| Wet (32%)                             | 286 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 356 | 404 |
| Above Normal (15%)                    | 272 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 359 | 397 |
| Below Normal (17%)                    | 97  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 224 | 187 |
| Dry (22%)                             | 130 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 228 | 227 |
| Critical (15%)                        | 37  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 123 | 61  |

**Table 5B1-5-1c. Sites Release to Yolo Bypass, Alternative 1A 011221 minus No Action Alternative 011221, Monthly Flow (cfs)**

| Statistic                             | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <b>Probability of Exceedance</b>      |     |     |     |     |     |     |     |     |     |     |     |     |
| 10%                                   | 449 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 449 | 464 |
| 20%                                   | 449 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 449 | 464 |
| 30%                                   | 449 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 449 | 464 |
| 40%                                   | 250 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 449 | 464 |
| 50%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 449 | 375 |
| 60%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 278 | 281 |
| 70%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 2   |
| 80%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 90%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| <b>Long Term</b>                      |     |     |     |     |     |     |     |     |     |     |     |     |
| Full Simulation Period <sup>a</sup>   | 181 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 272 | 277 |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |     |     |     |     |     |     |     |     |     |     |
| Wet (32%)                             | 286 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 356 | 404 |
| Above Normal (15%)                    | 272 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 359 | 397 |
| Below Normal (17%)                    | 97  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 224 | 187 |
| Dry (22%)                             | 130 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 228 | 227 |
| Critical (15%)                        | 37  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 123 | 61  |

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).

c These results are displayed with calendar year - year type sorting.

**Table 5B1-5-2a. Sites Release to Yolo Bypass, No Action Alternative 011221, Monthly Flow (cfs)**

| Statistic                             | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <b>Probability of Exceedance</b>      |     |     |     |     |     |     |     |     |     |     |     |     |
| 10%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 20%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 30%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 40%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 50%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 60%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 70%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 80%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 90%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| <b>Long Term</b>                      |     |     |     |     |     |     |     |     |     |     |     |     |
| Full Simulation Period <sup>a</sup>   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |     |     |     |     |     |     |     |     |     |     |
| Wet (32%)                             | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Above Normal (15%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Below Normal (17%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Dry (22%)                             | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Critical (15%)                        | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |

**Table 5B1-5-2b. Sites Release to Yolo Bypass, Alternative 1B 011221, Monthly Flow (cfs)**

| Statistic                             | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <b>Probability of Exceedance</b>      |     |     |     |     |     |     |     |     |     |     |     |     |
| 10%                                   | 449 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 449 | 464 |
| 20%                                   | 449 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 449 | 464 |
| 30%                                   | 400 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 449 | 464 |
| 40%                                   | 6   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 449 | 426 |
| 50%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 449 | 287 |
| 60%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 308 | 150 |
| 70%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 80%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 90%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| <b>Long Term</b>                      |     |     |     |     |     |     |     |     |     |     |     |     |
| Full Simulation Period <sup>a</sup>   | 158 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 272 | 252 |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |     |     |     |     |     |     |     |     |     |     |
| Wet (32%)                             | 284 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 356 | 391 |
| Above Normal (15%)                    | 199 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 354 | 322 |
| Below Normal (17%)                    | 96  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 224 | 168 |
| Dry (22%)                             | 68  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 245 | 187 |
| Critical (15%)                        | 54  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 103 | 77  |

**Table 5B1-5-2c. Sites Release to Yolo Bypass, Alternative 1B 011221 minus No Action Alternative 011221, Monthly Flow (cfs)**

| Statistic                             | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <b>Probability of Exceedance</b>      |     |     |     |     |     |     |     |     |     |     |     |     |
| 10%                                   | 449 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 449 | 464 |
| 20%                                   | 449 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 449 | 464 |
| 30%                                   | 400 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 449 | 464 |
| 40%                                   | 6   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 449 | 426 |
| 50%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 449 | 287 |
| 60%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 308 | 150 |
| 70%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 80%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 90%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| <b>Long Term</b>                      |     |     |     |     |     |     |     |     |     |     |     |     |
| Full Simulation Period <sup>a</sup>   | 158 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 272 | 252 |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |     |     |     |     |     |     |     |     |     |     |
| Wet (32%)                             | 284 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 356 | 391 |
| Above Normal (15%)                    | 199 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 354 | 322 |
| Below Normal (17%)                    | 96  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 224 | 168 |
| Dry (22%)                             | 68  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 245 | 187 |
| Critical (15%)                        | 54  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 103 | 77  |

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).

c These results are displayed with calendar year - year type sorting.

**Table 5B1-5-3a. Sites Release to Yolo Bypass, No Action Alternative 011221, Monthly Flow (cfs)**

| Statistic                             | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <b>Probability of Exceedance</b>      |     |     |     |     |     |     |     |     |     |     |     |     |
| 10%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 20%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 30%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 40%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 50%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 60%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 70%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 80%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 90%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| <b>Long Term</b>                      |     |     |     |     |     |     |     |     |     |     |     |     |
| Full Simulation Period <sup>a</sup>   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |     |     |     |     |     |     |     |     |     |     |
| Wet (32%)                             | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Above Normal (15%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Below Normal (17%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Dry (22%)                             | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Critical (15%)                        | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |

**Table 5B1-5-3b. Sites Release to Yolo Bypass, Alternative 2 011221, Monthly Flow (cfs)**

| Statistic                             | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <b>Probability of Exceedance</b>      |     |     |     |     |     |     |     |     |     |     |     |     |
| 10%                                   | 449 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 449 | 464 |
| 20%                                   | 449 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 449 | 464 |
| 30%                                   | 449 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 449 | 464 |
| 40%                                   | 274 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 449 | 464 |
| 50%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 449 | 448 |
| 60%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 449 | 293 |
| 70%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 19  | 97  |
| 80%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 90%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| <b>Long Term</b>                      |     |     |     |     |     |     |     |     |     |     |     |     |
| Full Simulation Period <sup>a</sup>   | 183 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 300 | 290 |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |     |     |     |     |     |     |     |     |     |     |
| Wet (32%)                             | 272 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 356 | 437 |
| Above Normal (15%)                    | 274 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 381 | 398 |
| Below Normal (17%)                    | 110 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 288 | 249 |
| Dry (22%)                             | 146 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 275 | 204 |
| Critical (15%)                        | 37  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 150 | 37  |

**Table 5B1-5-3c. Sites Release to Yolo Bypass, Alternative 2 011221 minus No Action Alternative 011221, Monthly Flow (cfs)**

| Statistic                             | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <b>Probability of Exceedance</b>      |     |     |     |     |     |     |     |     |     |     |     |     |
| 10%                                   | 449 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 449 | 464 |
| 20%                                   | 449 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 449 | 464 |
| 30%                                   | 449 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 449 | 464 |
| 40%                                   | 274 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 449 | 464 |
| 50%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 449 | 448 |
| 60%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 449 | 293 |
| 70%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 19  | 97  |
| 80%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 90%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| <b>Long Term</b>                      |     |     |     |     |     |     |     |     |     |     |     |     |
| Full Simulation Period <sup>a</sup>   | 183 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 300 | 290 |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |     |     |     |     |     |     |     |     |     |     |
| Wet (32%)                             | 272 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 356 | 437 |
| Above Normal (15%)                    | 274 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 381 | 398 |
| Below Normal (17%)                    | 110 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 288 | 249 |
| Dry (22%)                             | 146 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 275 | 204 |
| Critical (15%)                        | 37  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 150 | 37  |

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).

c These results are displayed with calendar year - year type sorting.

**Table 5B1-5-4a. Sites Release to Yolo Bypass, No Action Alternative 011221, Monthly Flow (cfs)**

| Statistic                             | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <b>Probability of Exceedance</b>      |     |     |     |     |     |     |     |     |     |     |     |     |
| 10%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 20%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 30%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 40%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 50%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 60%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 70%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 80%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 90%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| <b>Long Term</b>                      |     |     |     |     |     |     |     |     |     |     |     |     |
| Full Simulation Period <sup>a</sup>   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |     |     |     |     |     |     |     |     |     |     |
| Wet (32%)                             | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Above Normal (15%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Below Normal (17%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Dry (22%)                             | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Critical (15%)                        | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |

**Table 5B1-5-4b. Sites Release to Yolo Bypass, Alternative 3 020121, Monthly Flow (cfs)**

| Statistic                             | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <b>Probability of Exceedance</b>      |     |     |     |     |     |     |     |     |     |     |     |     |
| 10%                                   | 449 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 449 | 464 |
| 20%                                   | 449 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 449 | 464 |
| 30%                                   | 283 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 449 | 464 |
| 40%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 449 | 378 |
| 50%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 449 | 317 |
| 60%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 61  |
| 70%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 80%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 90%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| <b>Long Term</b>                      |     |     |     |     |     |     |     |     |     |     |     |     |
| Full Simulation Period <sup>a</sup>   | 135 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 247 | 239 |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |     |     |     |     |     |     |     |     |     |     |
| Wet (32%)                             | 239 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 356 | 382 |
| Above Normal (15%)                    | 177 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 317 | 362 |
| Below Normal (17%)                    | 96  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 224 | 183 |
| Dry (22%)                             | 50  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 201 | 125 |
| Critical (15%)                        | 37  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 37  | 39  |

**Table 5B1-5-4c. Sites Release to Yolo Bypass, Alternative 3 020121 minus No Action Alternative 011221, Monthly Flow (cfs)**

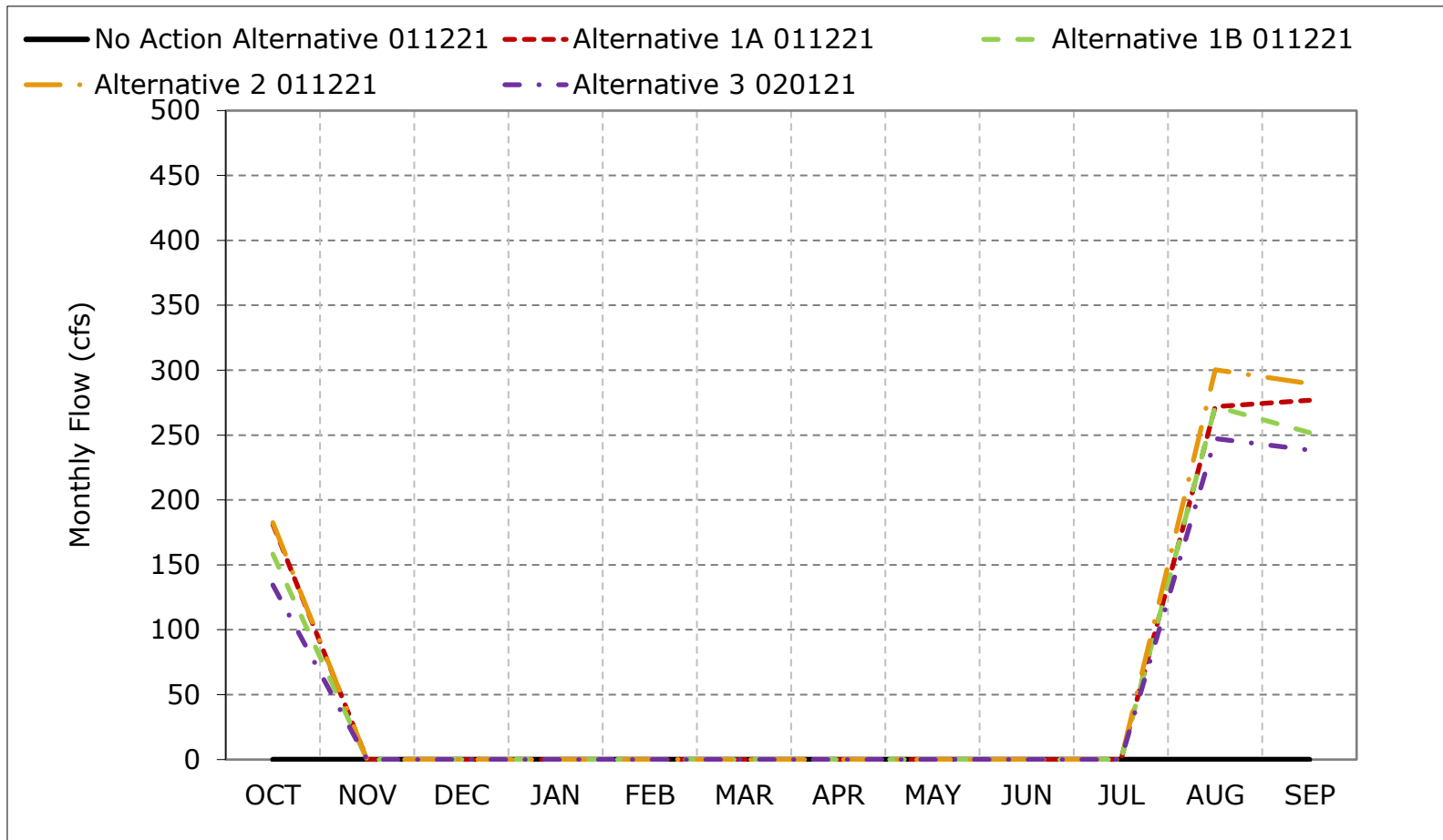
| Statistic                             | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <b>Probability of Exceedance</b>      |     |     |     |     |     |     |     |     |     |     |     |     |
| 10%                                   | 449 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 449 | 464 |
| 20%                                   | 449 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 449 | 464 |
| 30%                                   | 283 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 449 | 464 |
| 40%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 449 | 378 |
| 50%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 449 | 317 |
| 60%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 61  |
| 70%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 80%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 90%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| <b>Long Term</b>                      |     |     |     |     |     |     |     |     |     |     |     |     |
| Full Simulation Period <sup>a</sup>   | 135 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 247 | 239 |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |     |     |     |     |     |     |     |     |     |     |
| Wet (32%)                             | 239 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 356 | 382 |
| Above Normal (15%)                    | 177 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 317 | 362 |
| Below Normal (17%)                    | 96  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 224 | 183 |
| Dry (22%)                             | 50  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 201 | 125 |
| Critical (15%)                        | 37  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 37  | 39  |

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).

c These results are displayed with calendar year - year type sorting.

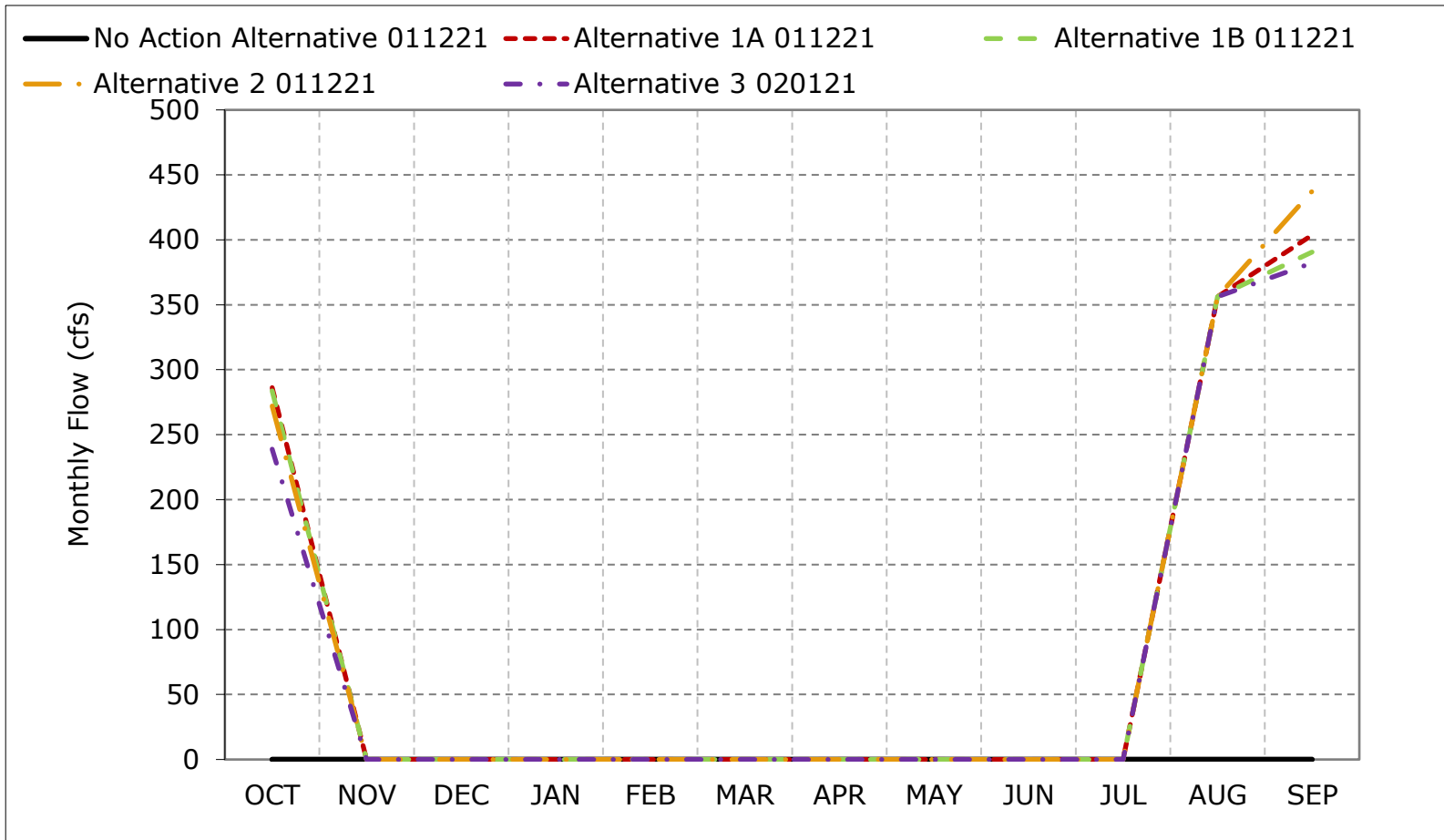
**Figure 5B1-5-1. Sites Release to Yolo Bypass, Long-Term Average Flow**



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

\*These results are displayed with calendar year - year type sorting.

**Figure 5B1-5-2. Sites Release to Yolo Bypass, Wet Year Average Flow**

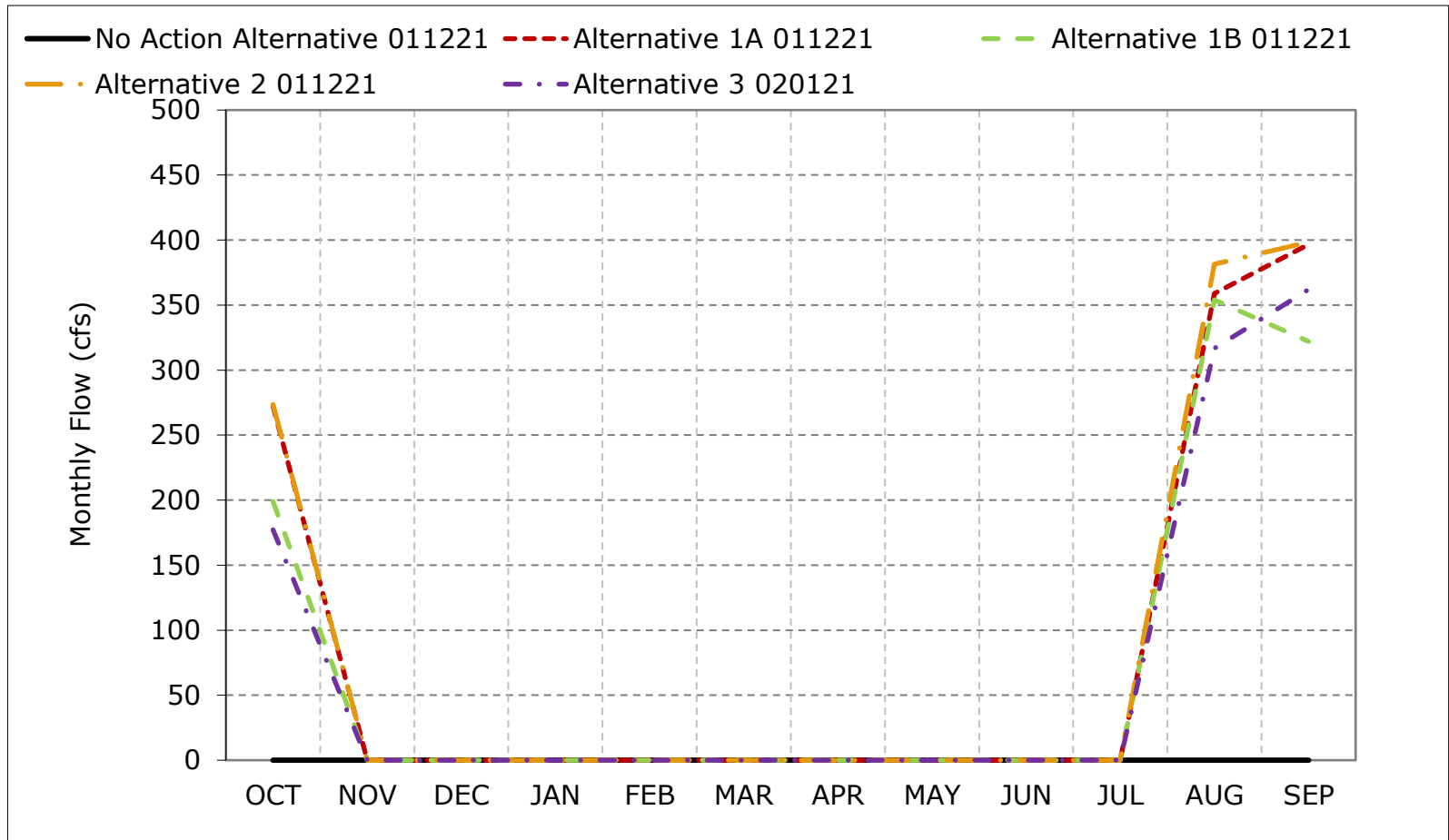


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

\*These results are displayed with calendar year - year type sorting.



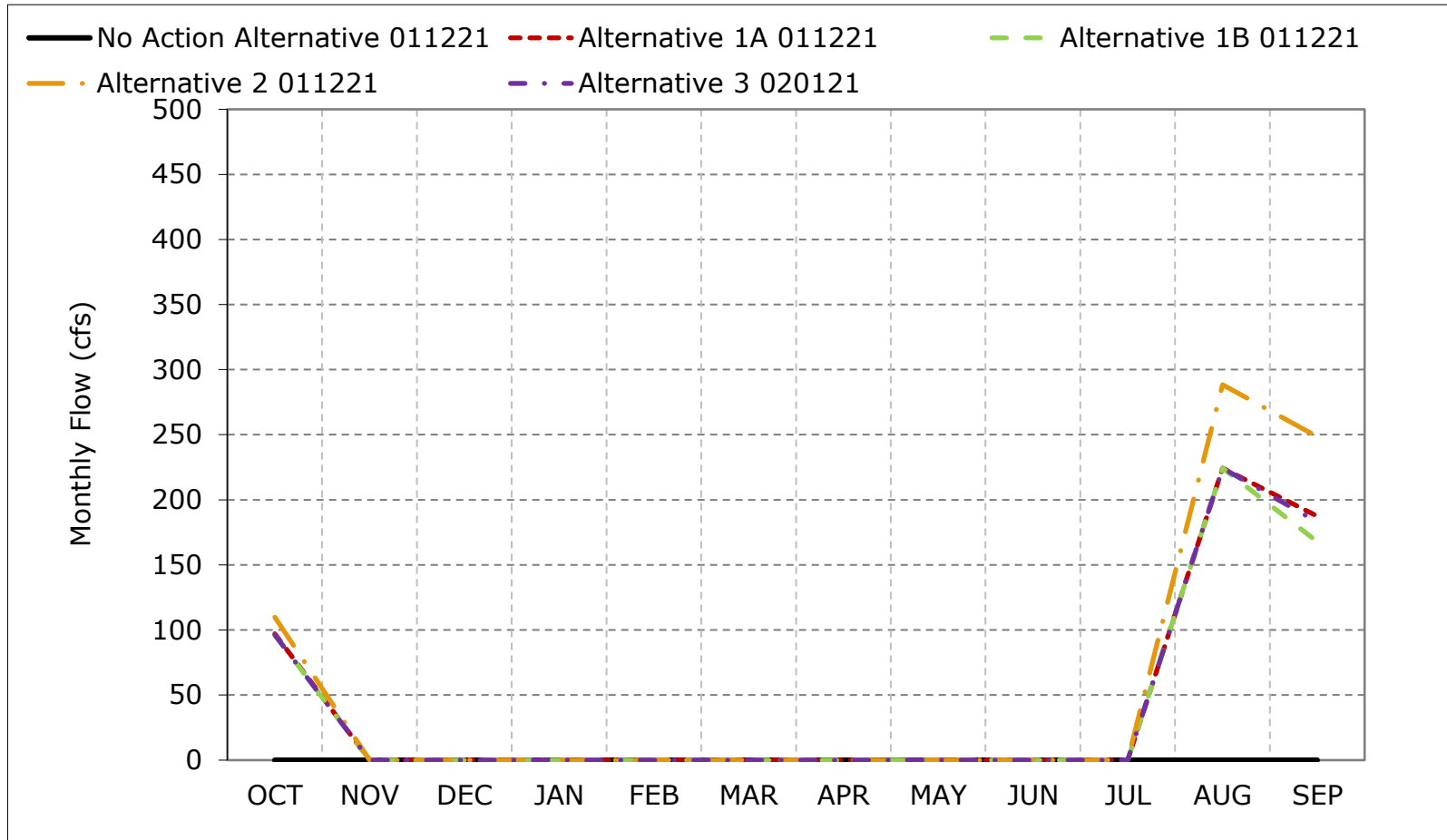
**Figure 5B1-5-3. Sites Release to Yolo Bypass, Above Normal Year Average Flow**



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

\*These results are displayed with calendar year - year type sorting.

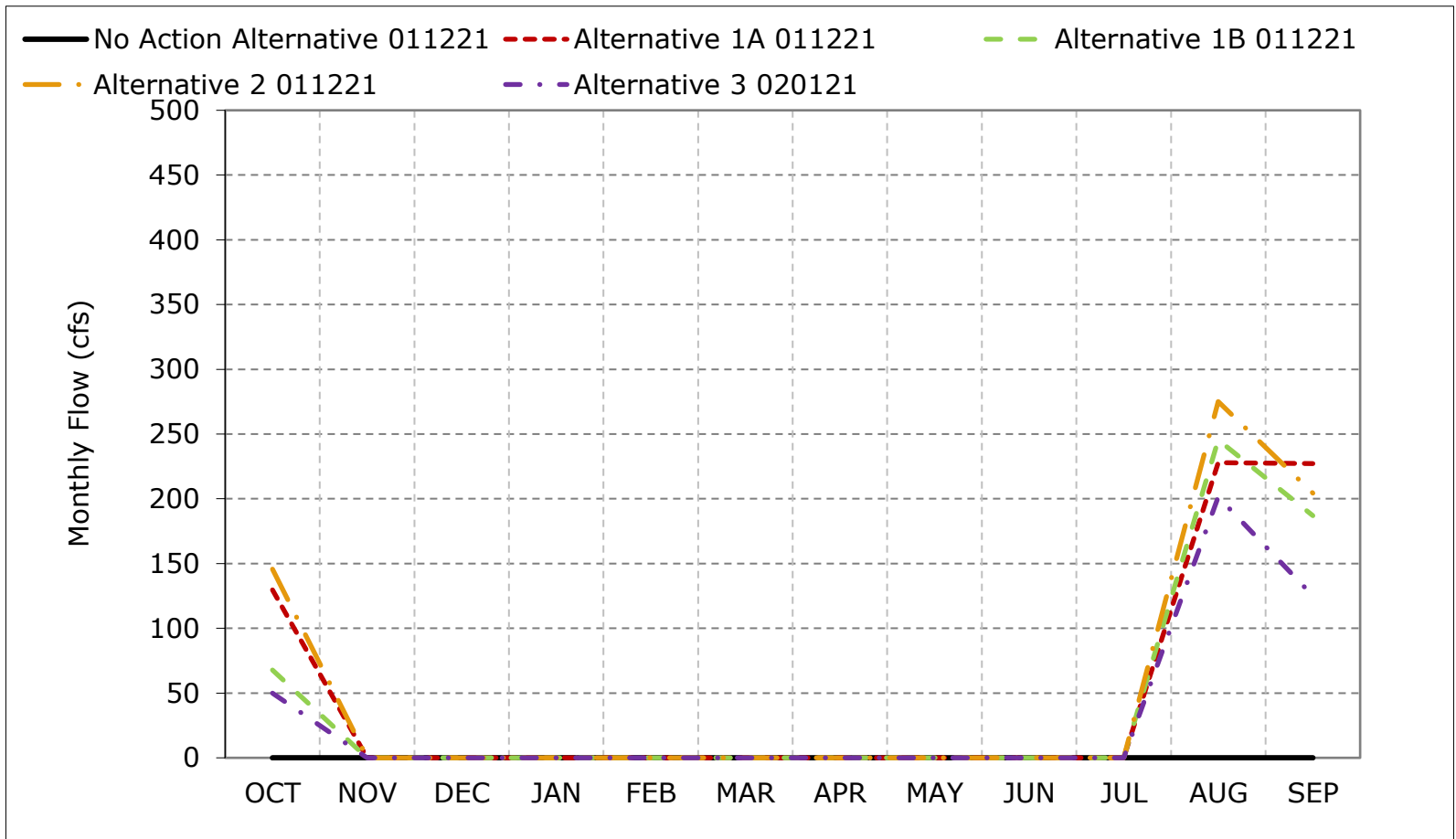
**Figure 5B1-5-4. Sites Release to Yolo Bypass, Below Normal Year Average Flow**



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

\*These results are displayed with calendar year - year type sorting.

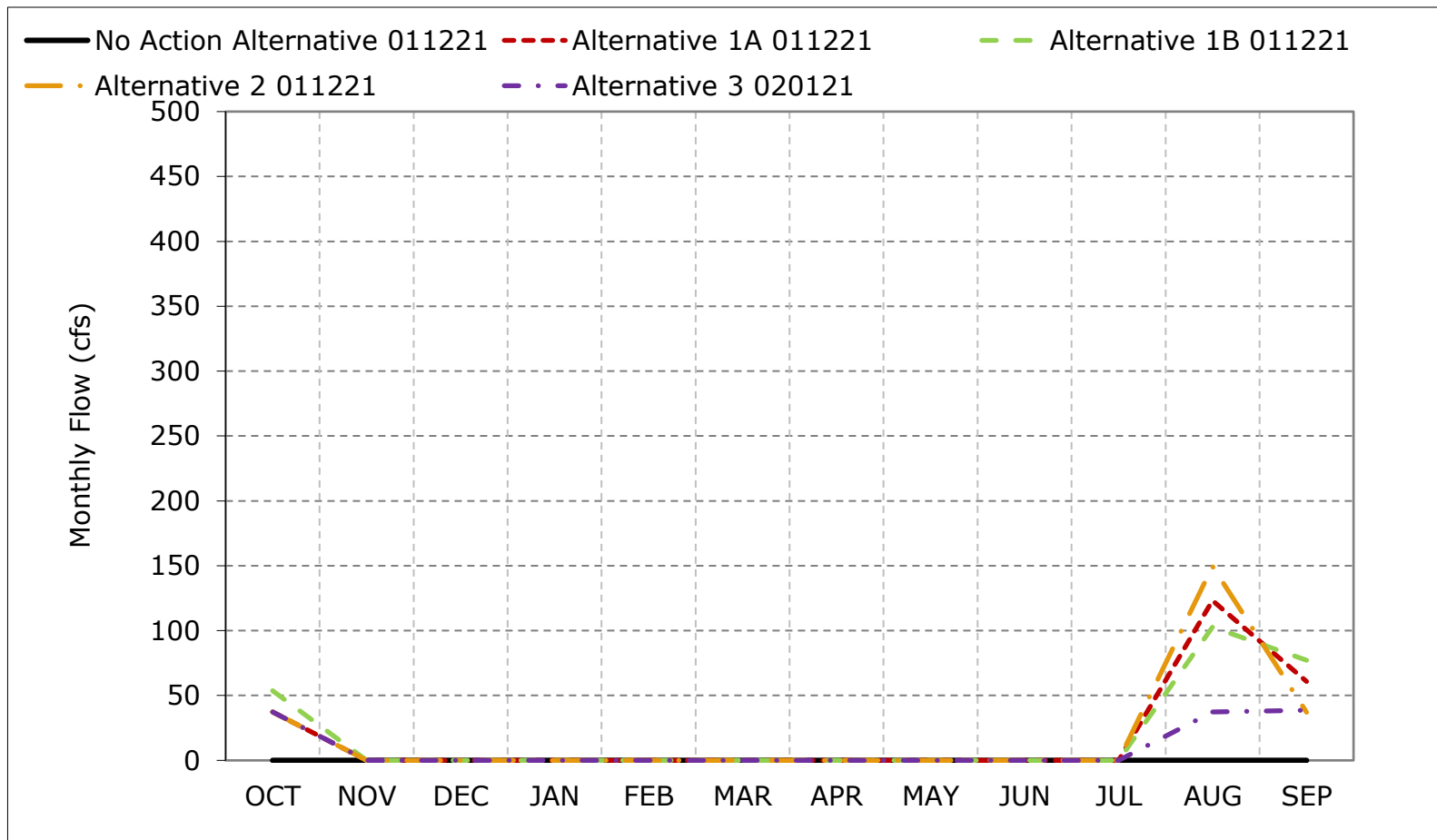
**Figure 5B1-5-5. Sites Release to Yolo Bypass, Dry Year Average Flow**



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

\*These results are displayed with calendar year - year type sorting.

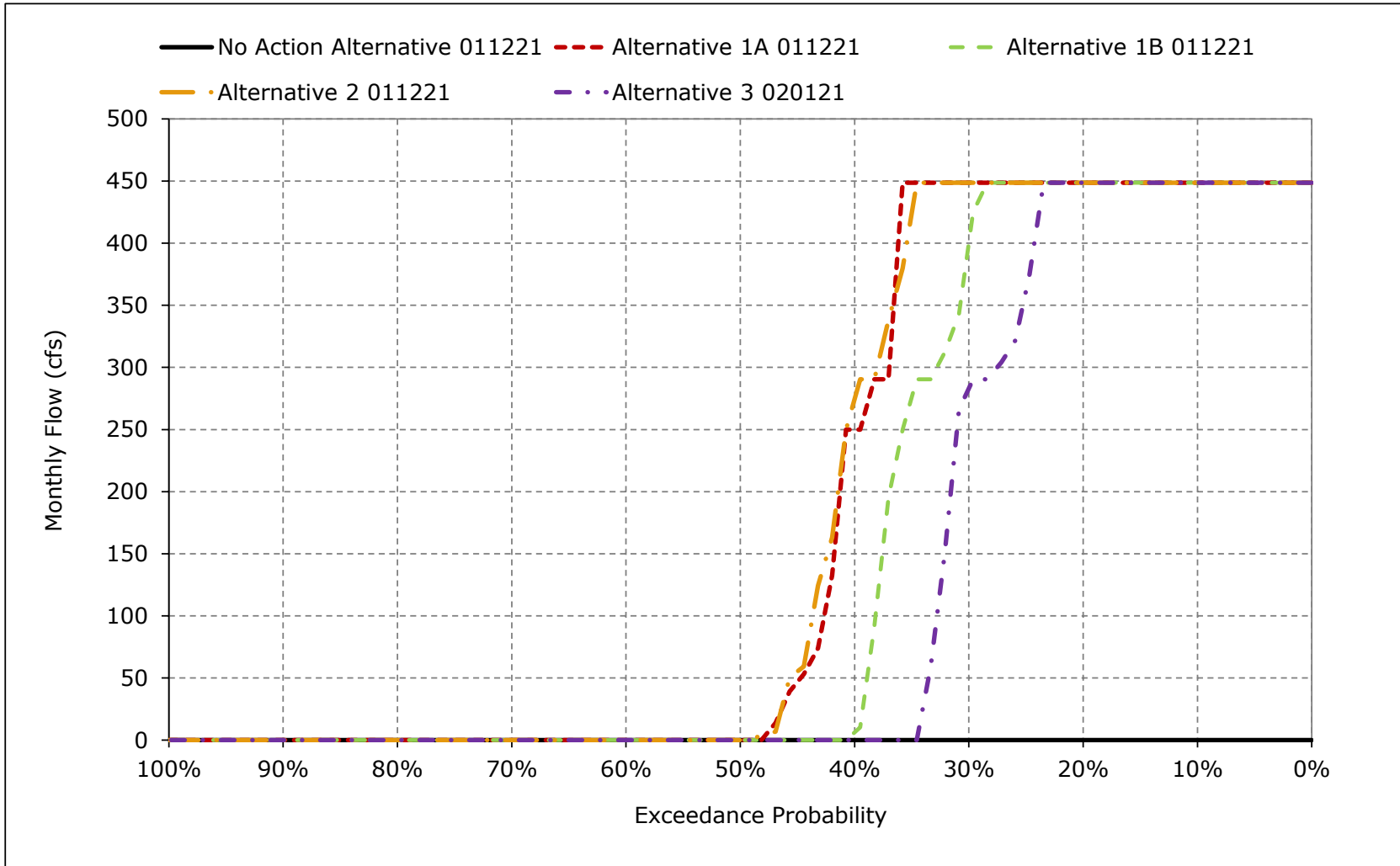
**Figure 5B1-5-6. Sites Release to Yolo Bypass, Critical Year Average Flow**



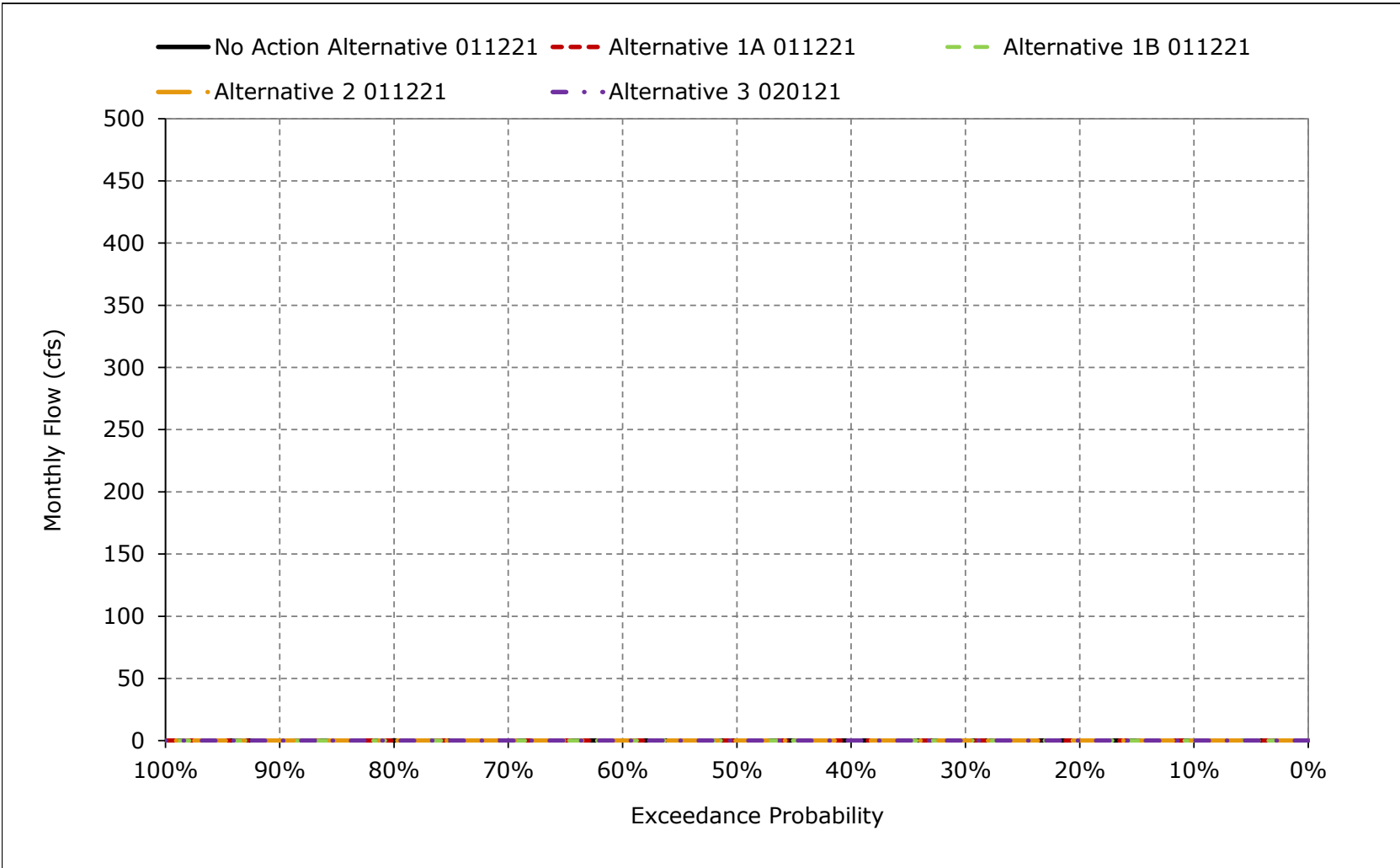
\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

\*These results are displayed with calendar year - year type sorting.

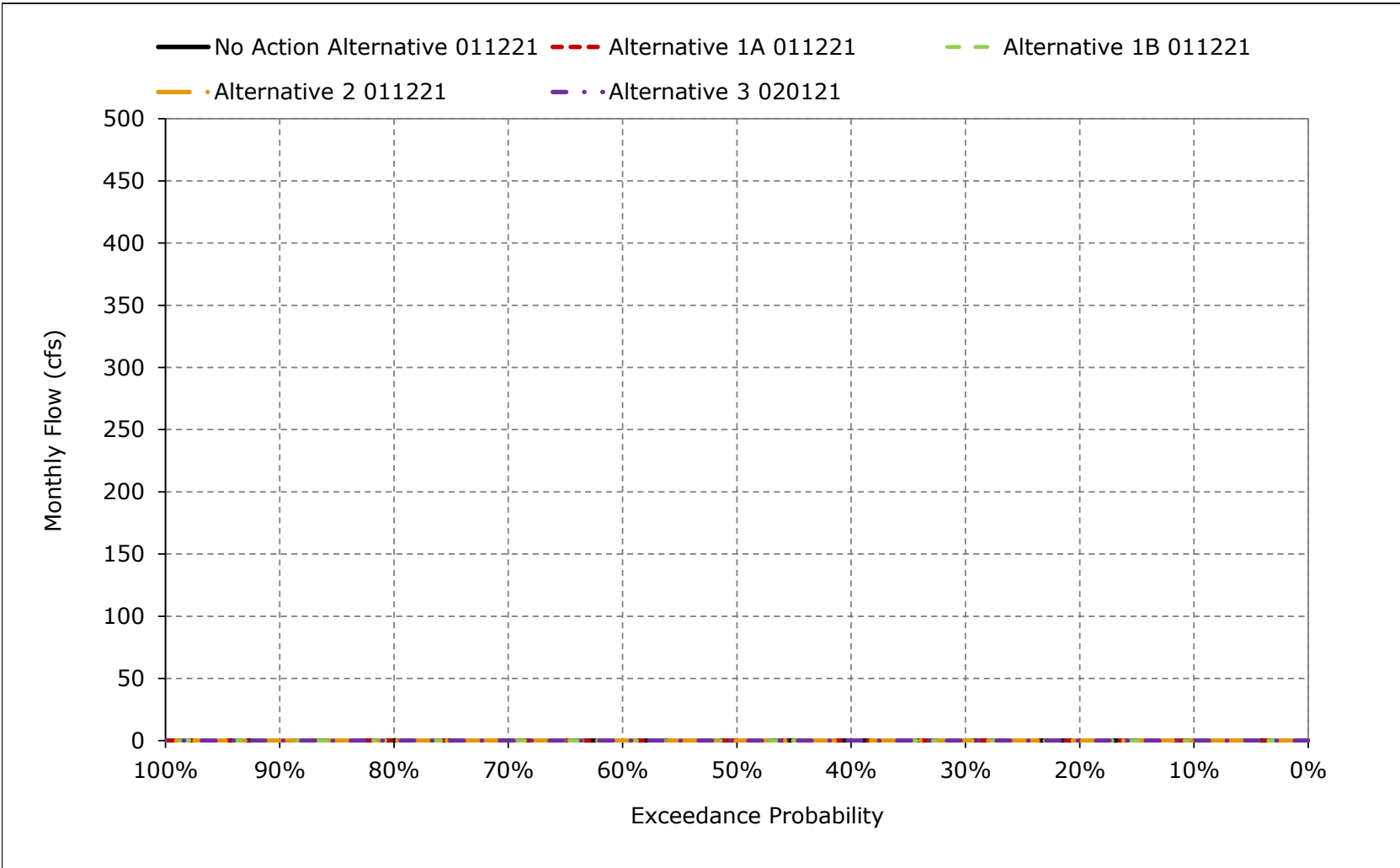
**Figure 5B1-5-7. Sites Release to Yolo Bypass, October**



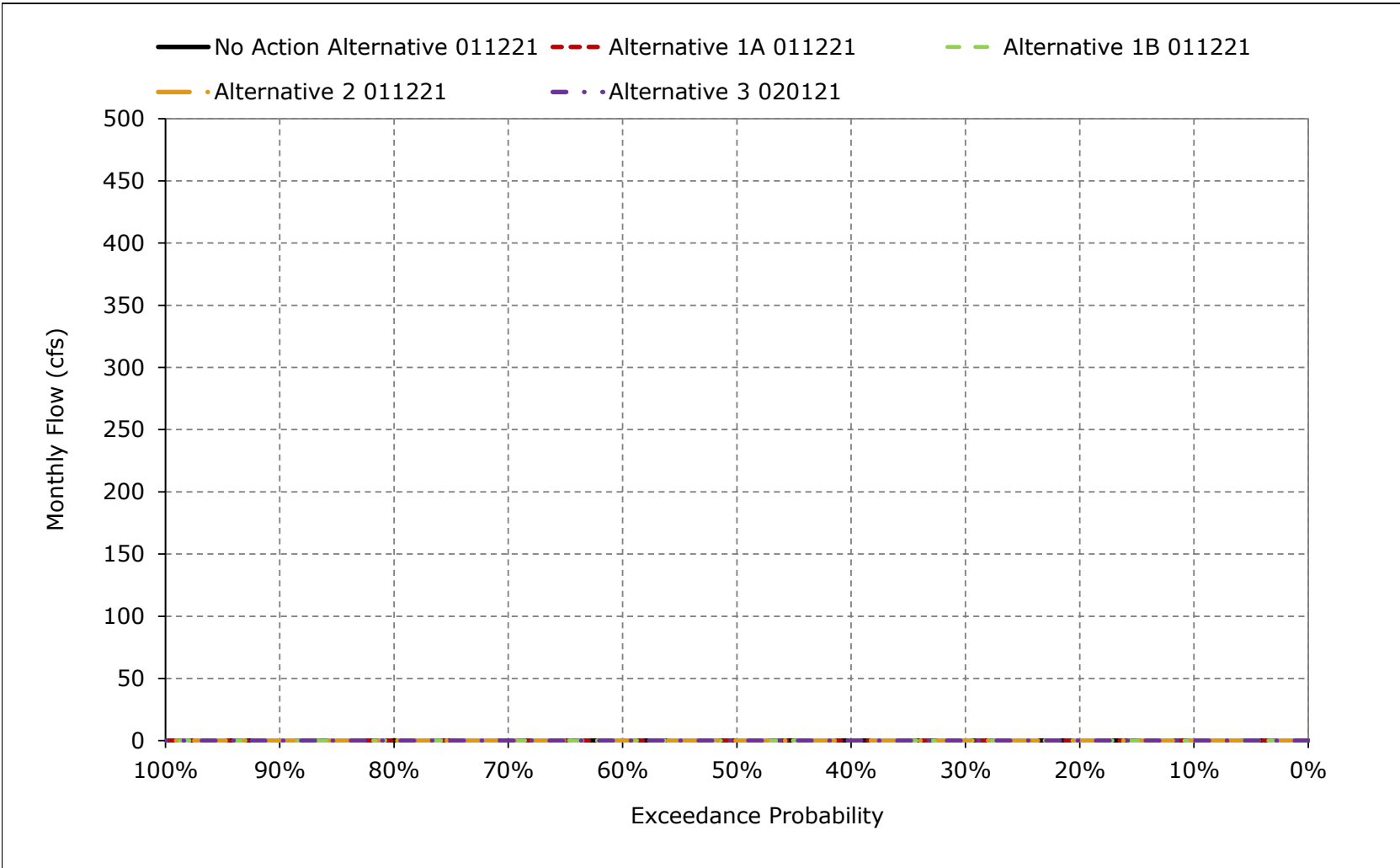
**Figure 5B1-5-8. Sites Release to Yolo Bypass, November**



**Figure 5B1-5-9. Sites Release to Yolo Bypass, December**

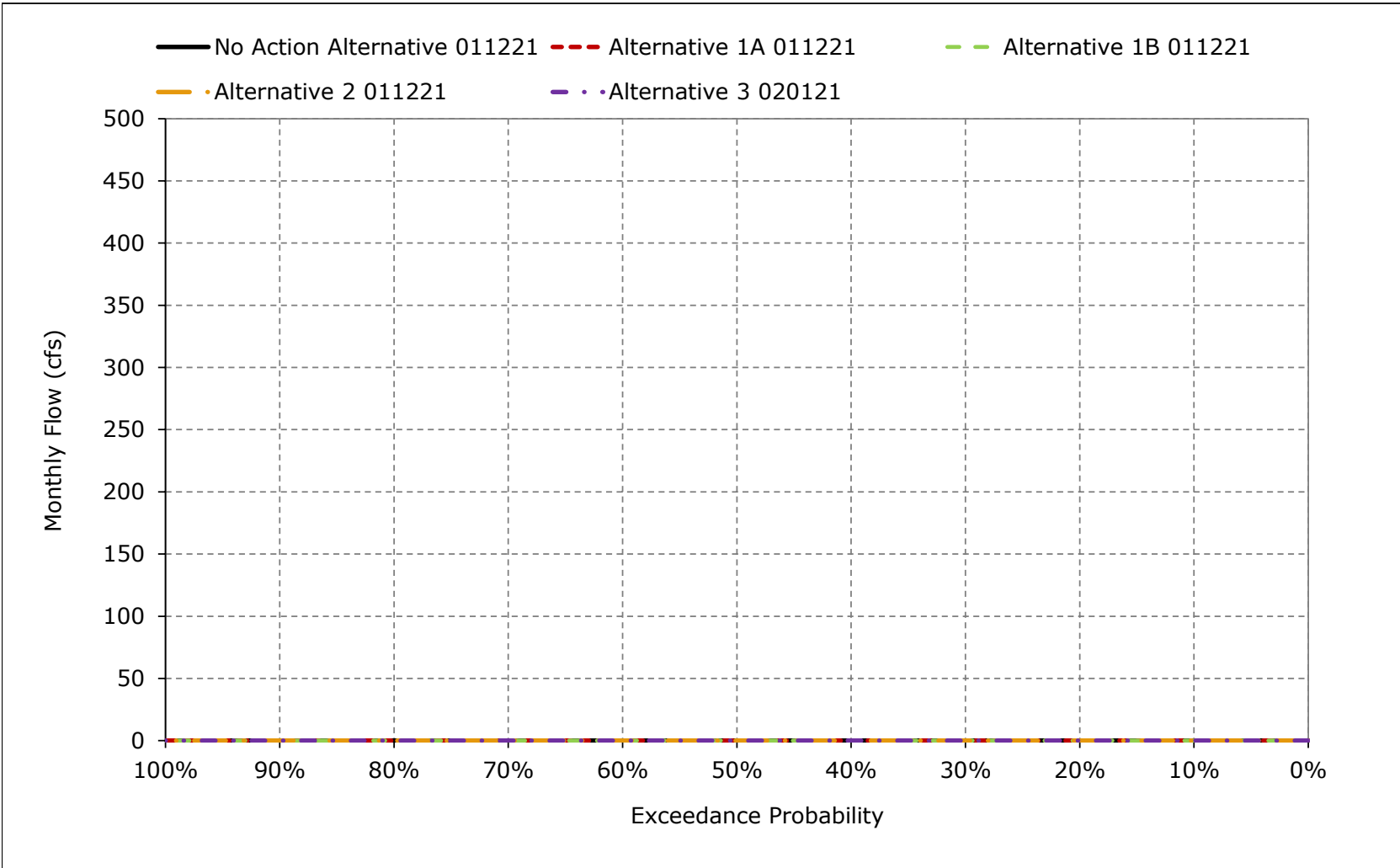


**Figure 5B1-5-10. Sites Release to Yolo Bypass, January**

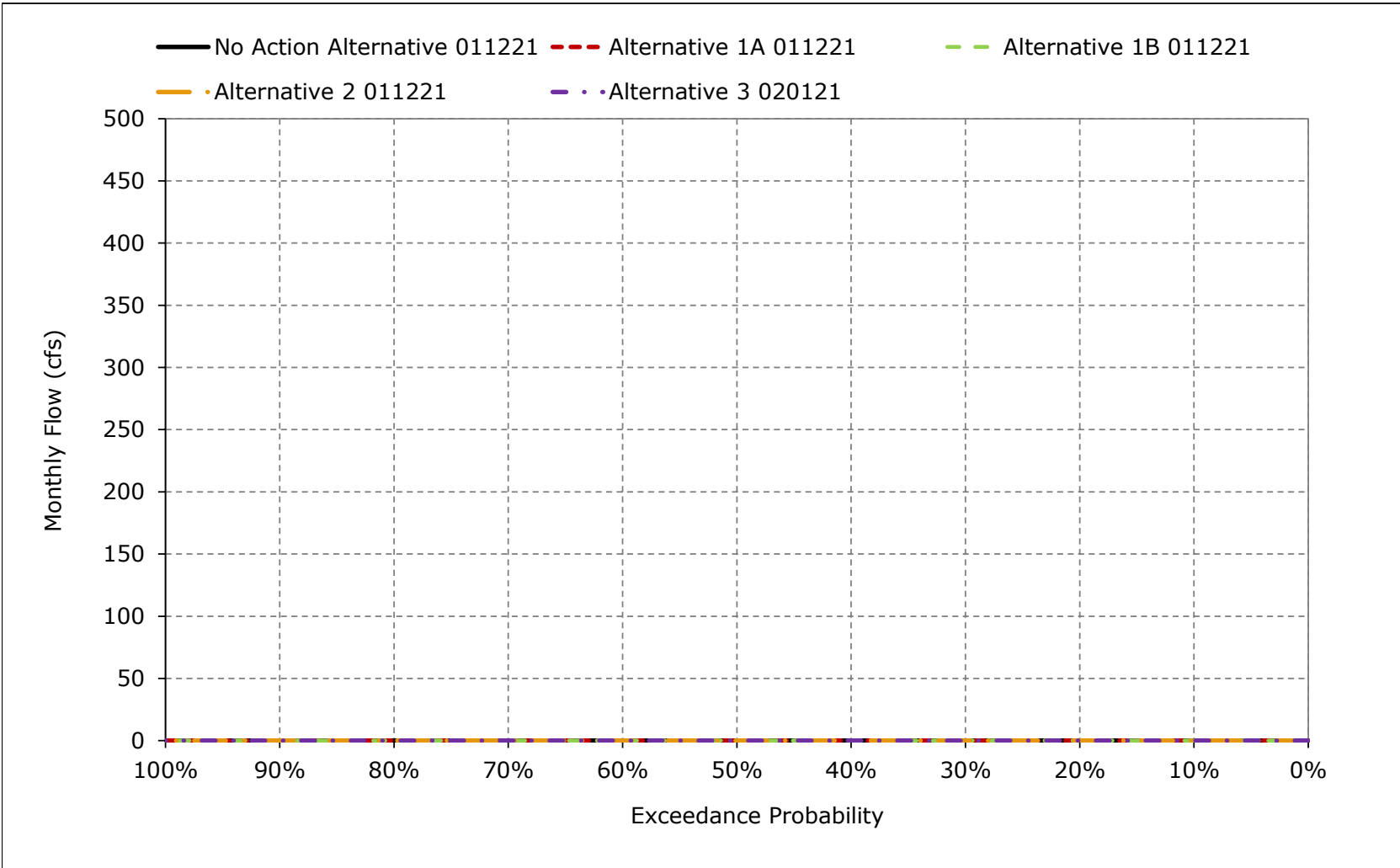




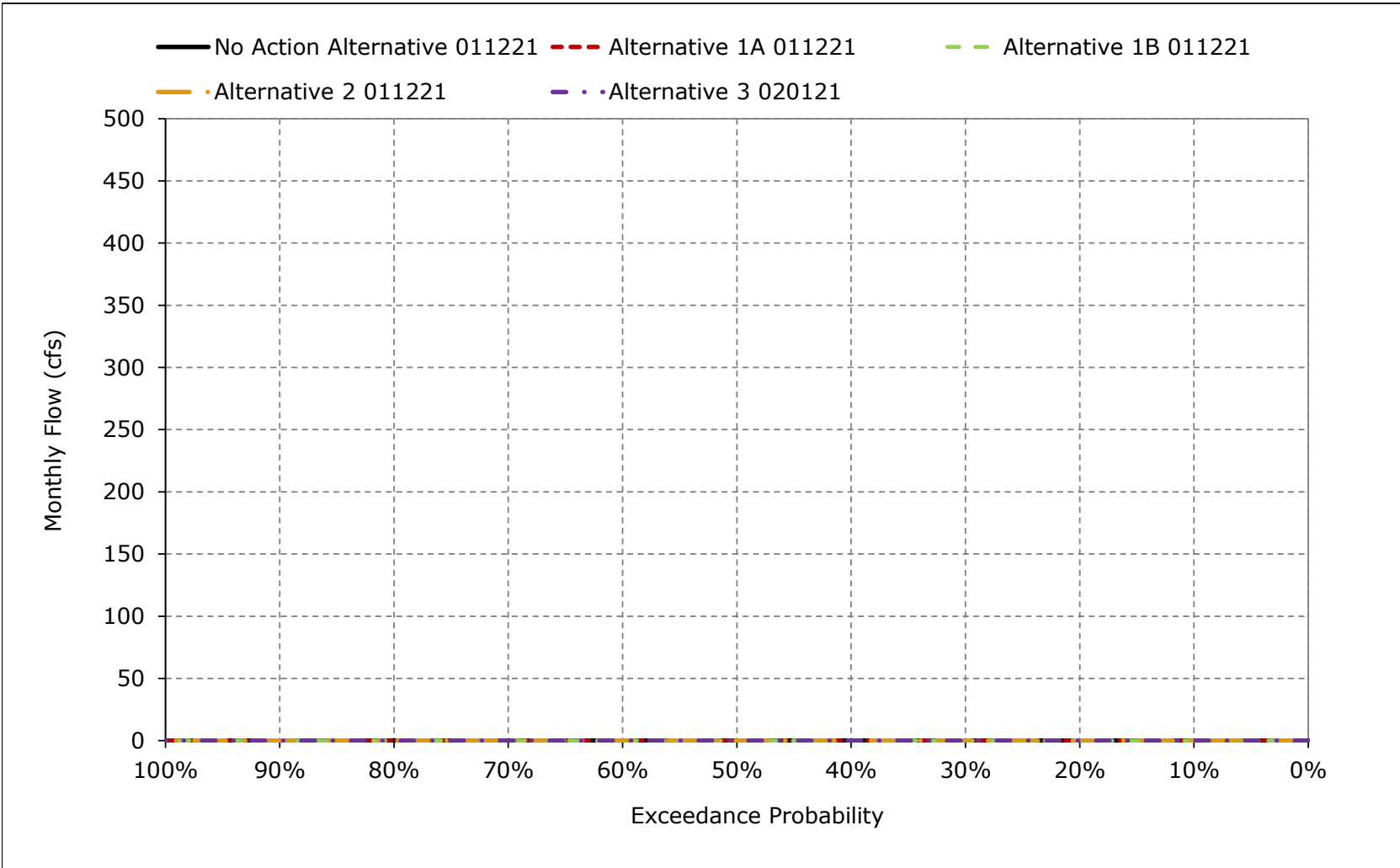
**Figure 5B1-5-11. Sites Release to Yolo Bypass, February**



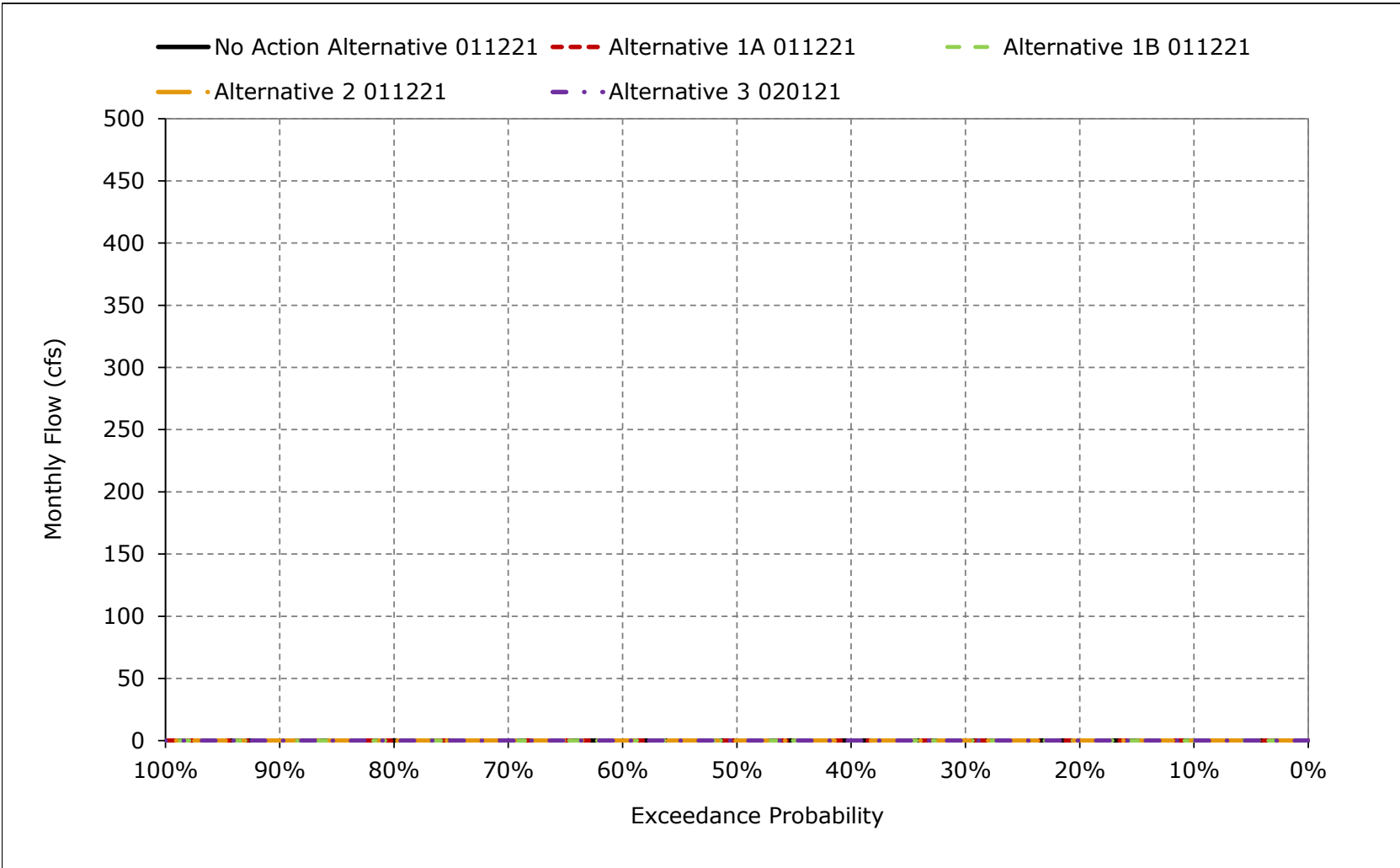
**Figure 5B1-5-12. Sites Release to Yolo Bypass, March**



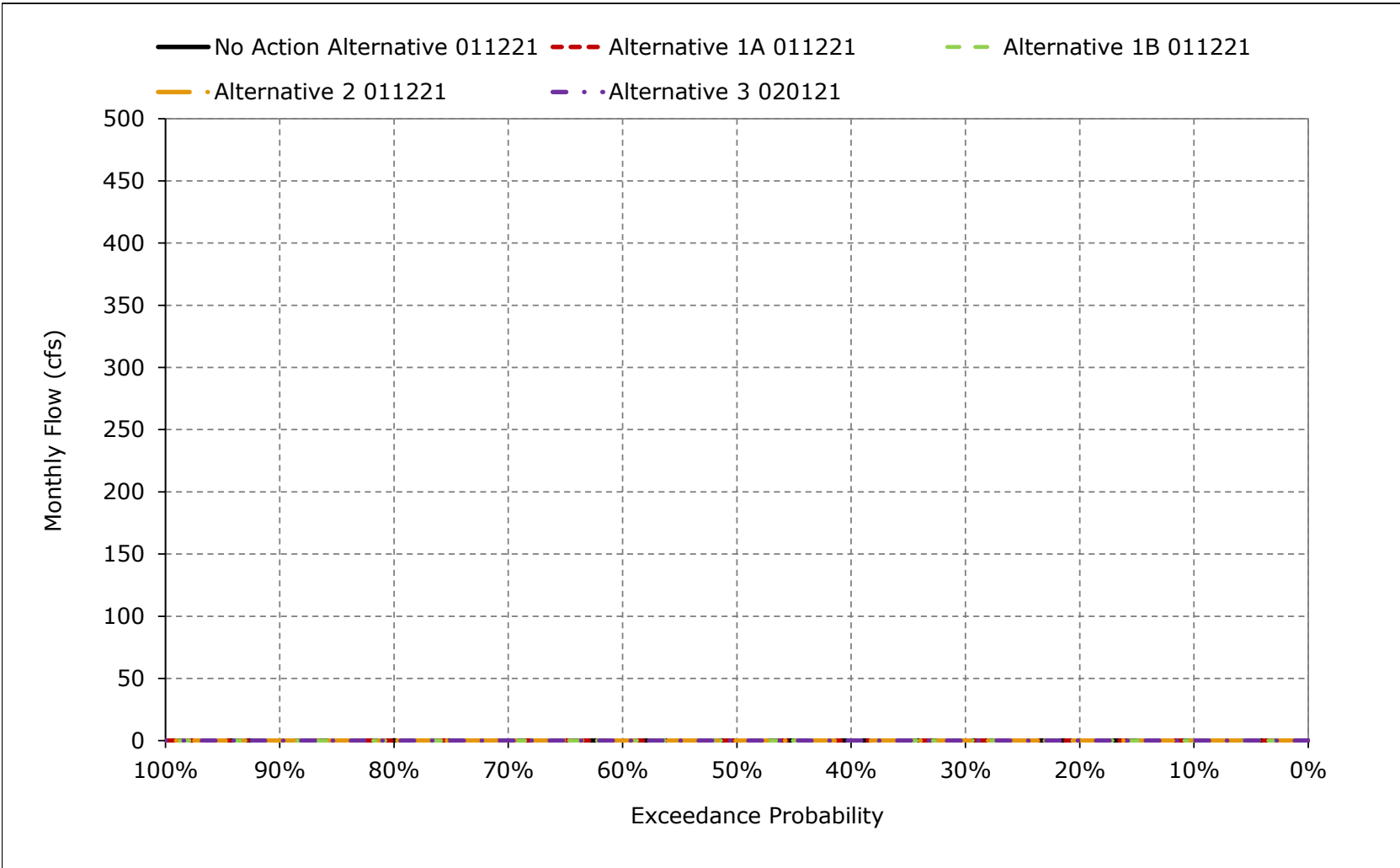
**Figure 5B1-5-13. Sites Release to Yolo Bypass, April**



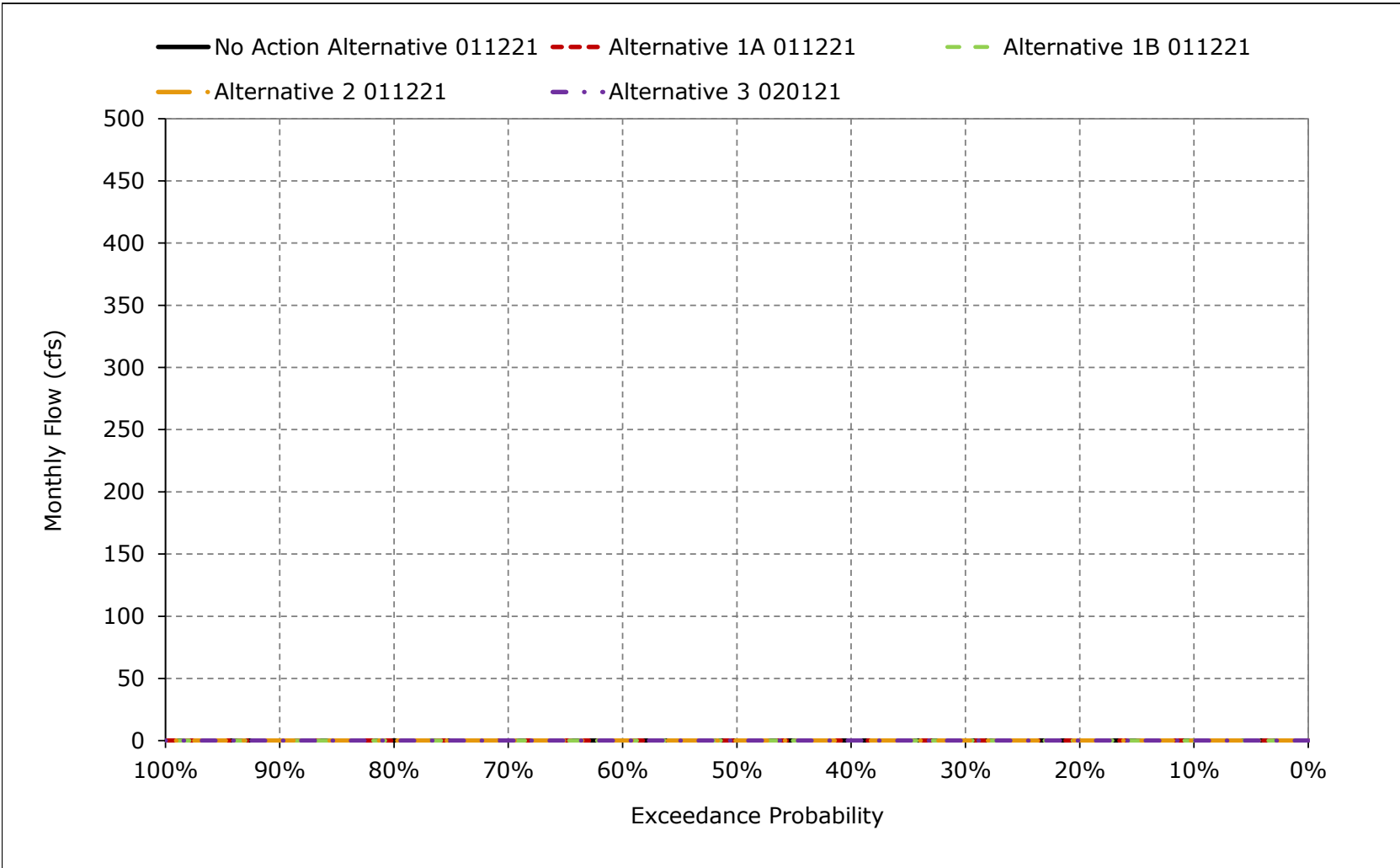
**Figure 5B1-5-14. Sites Release to Yolo Bypass, May**



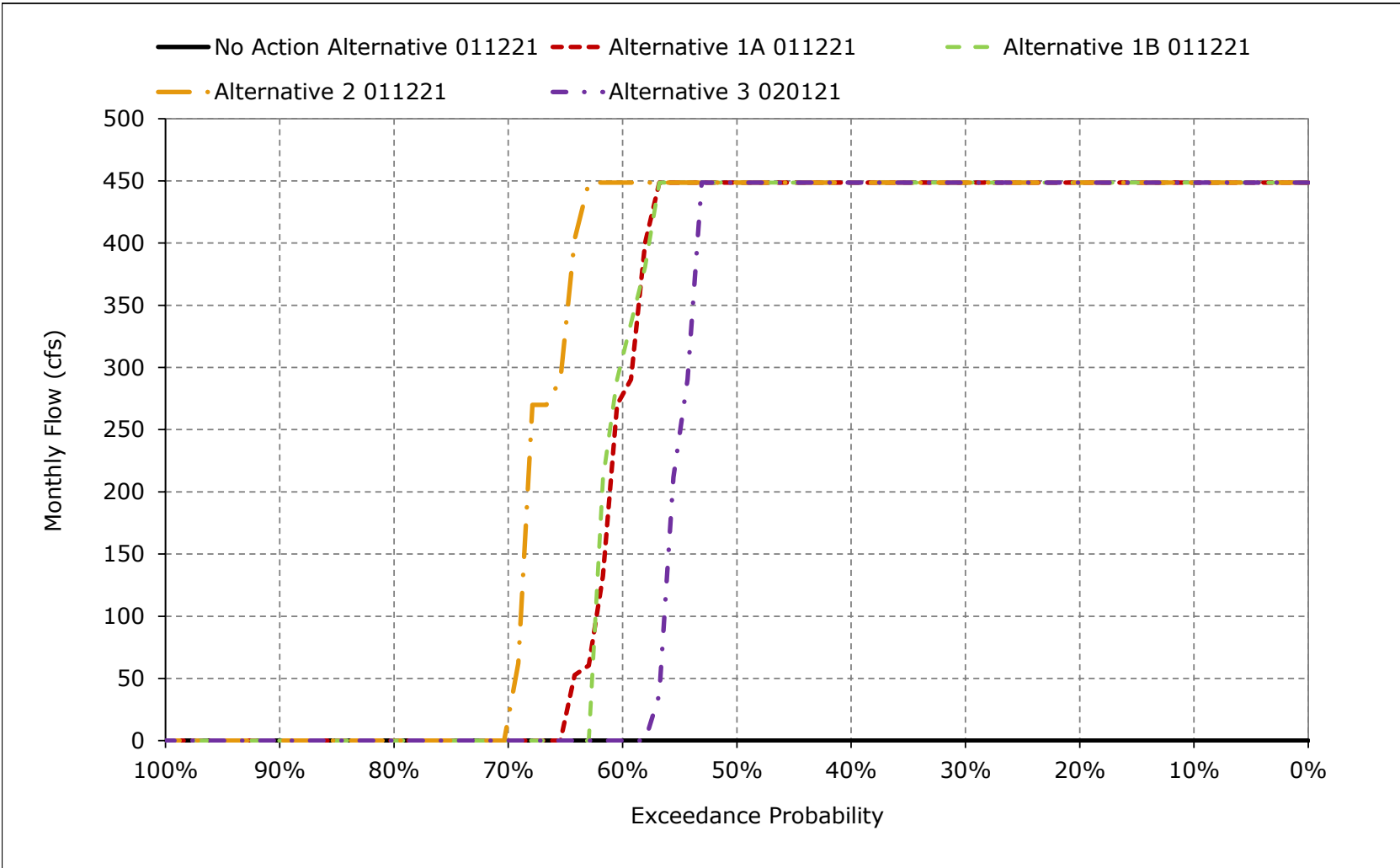
**Figure 5B1-5-15. Sites Release to Yolo Bypass, June**



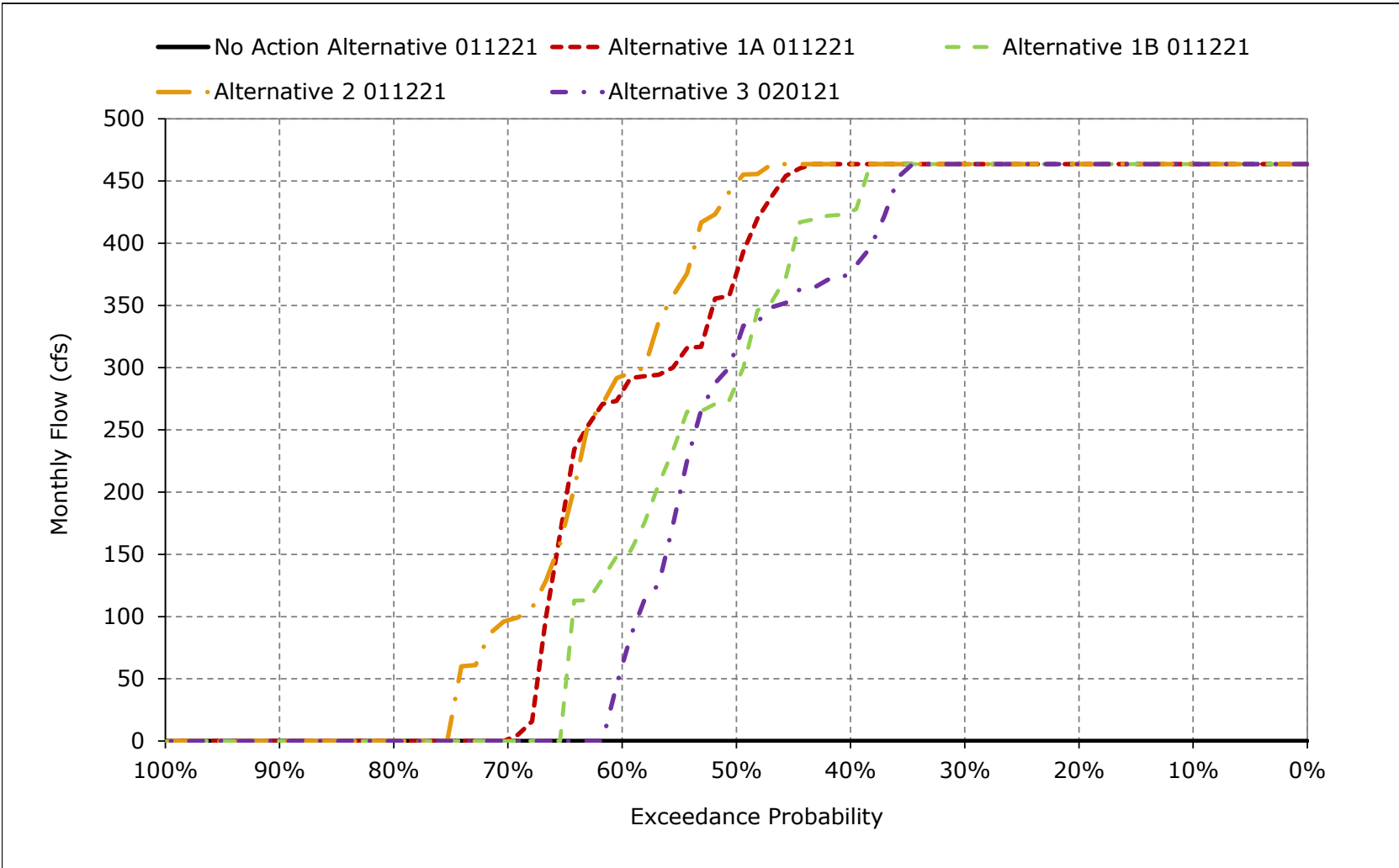
**Figure 5B1-5-16. Sites Release to Yolo Bypass, July**



**Figure 5B1-5-17. Sites Release to Yolo Bypass, August**



**Figure 5B1-5-18. Sites Release to Yolo Bypass, September**





**Table 5B1-6-1a. Total Sites Release, No Action Alternative 011221, Monthly Flow (cfs)**

| Statistic                             | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <b>Probability of Exceedance</b>      |     |     |     |     |     |     |     |     |     |     |     |     |
| 10%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 20%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 30%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 40%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 50%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 60%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 70%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 80%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 90%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| <b>Long Term</b>                      |     |     |     |     |     |     |     |     |     |     |     |     |
| Full Simulation Period <sup>a</sup>   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |     |     |     |     |     |     |     |     |     |     |
| Wet (32%)                             | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Above Normal (15%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Below Normal (17%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Dry (22%)                             | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Critical (15%)                        | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |

**Table 5B1-6-1b. Total Sites Release, Alternative 1A 011221, Monthly Flow (cfs)**

| Statistic                             | Oct   | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------|-------|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|
| <b>Probability of Exceedance</b>      |       |     |     |     |     |     |     |     |       |       |       |       |
| 10%                                   | 1,000 | 957 | 114 | 0   | 0   | 30  | 271 | 586 | 1,445 | 2,213 | 1,885 | 1,410 |
| 20%                                   | 658   | 320 | 27  | 0   | 0   | 8   | 162 | 241 | 1,202 | 1,457 | 1,456 | 1,128 |
| 30%                                   | 481   | 72  | 27  | 0   | 0   | 3   | 79  | 120 | 345   | 1,051 | 1,117 | 890   |
| 40%                                   | 449   | 29  | 0   | 0   | 0   | 0   | 50  | 0   | 176   | 546   | 559   | 504   |
| 50%                                   | 387   | 0   | 0   | 0   | 0   | 0   | 35  | 0   | 96    | 178   | 493   | 481   |
| 60%                                   | 257   | 0   | 0   | 0   | 0   | 0   | 2   | 0   | 42    | 122   | 481   | 464   |
| 70%                                   | 90    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 34    | 41    | 449   | 412   |
| 80%                                   | 8     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 41    | 347   | 128   |
| 90%                                   | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 41    | 41    | 44    |
| <b>Long Term</b>                      |       |     |     |     |     |     |     |     |       |       |       |       |
| Full Simulation Period <sup>a</sup>   | 401   | 191 | 27  | 0   | 0   | 13  | 114 | 224 | 451   | 707   | 791   | 622   |
| <b>Water Year Types<sup>b,c</sup></b> |       |     |     |     |     |     |     |     |       |       |       |       |
| Wet (32%)                             | 287   | 17  | 14  | 1   | 0   | 2   | 9   | 3   | 24    | 39    | 380   | 416   |
| Above Normal (15%)                    | 309   | 65  | 39  | 0   | 0   | 2   | 7   | 0   | 29    | 135   | 402   | 438   |
| Below Normal (17%)                    | 386   | 282 | 36  | 0   | 0   | 7   | 51  | 60  | 255   | 650   | 872   | 533   |
| Dry (22%)                             | 674   | 481 | 39  | 0   | 0   | 13  | 199 | 348 | 1,242 | 1,731 | 1,455 | 1,093 |
| Critical (15%)                        | 350   | 155 | 17  | 0   | 1   | 53  | 397 | 932 | 837   | 1,253 | 980   | 649   |

**Table 5B1-6-1c. Total Sites Release, Alternative 1A 011221 minus No Action Alternative 011221, Monthly Flow (cfs)**

| Statistic                             | Oct   | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------|-------|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|
| <b>Probability of Exceedance</b>      |       |     |     |     |     |     |     |     |       |       |       |       |
| 10%                                   | 1,000 | 957 | 114 | 0   | 0   | 30  | 271 | 586 | 1,445 | 2,213 | 1,885 | 1,410 |
| 20%                                   | 658   | 320 | 27  | 0   | 0   | 8   | 162 | 241 | 1,202 | 1,457 | 1,456 | 1,128 |
| 30%                                   | 481   | 72  | 27  | 0   | 0   | 3   | 79  | 120 | 345   | 1,051 | 1,117 | 890   |
| 40%                                   | 449   | 29  | 0   | 0   | 0   | 0   | 50  | 0   | 176   | 546   | 559   | 504   |
| 50%                                   | 387   | 0   | 0   | 0   | 0   | 0   | 35  | 0   | 96    | 178   | 493   | 481   |
| 60%                                   | 257   | 0   | 0   | 0   | 0   | 0   | 2   | 0   | 42    | 122   | 481   | 464   |
| 70%                                   | 90    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 34    | 41    | 449   | 412   |
| 80%                                   | 8     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 41    | 347   | 128   |
| 90%                                   | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 41    | 41    | 44    |
| <b>Long Term</b>                      |       |     |     |     |     |     |     |     |       |       |       |       |
| Full Simulation Period <sup>a</sup>   | 401   | 191 | 27  | 0   | 0   | 13  | 114 | 224 | 451   | 707   | 791   | 622   |
| <b>Water Year Types<sup>b,c</sup></b> |       |     |     |     |     |     |     |     |       |       |       |       |
| Wet (32%)                             | 287   | 17  | 14  | 1   | 0   | 2   | 9   | 3   | 24    | 39    | 380   | 416   |
| Above Normal (15%)                    | 309   | 65  | 39  | 0   | 0   | 2   | 7   | 0   | 29    | 135   | 402   | 438   |
| Below Normal (17%)                    | 386   | 282 | 36  | 0   | 0   | 7   | 51  | 60  | 255   | 650   | 872   | 533   |
| Dry (22%)                             | 674   | 481 | 39  | 0   | 0   | 13  | 199 | 348 | 1,242 | 1,731 | 1,455 | 1,093 |
| Critical (15%)                        | 350   | 155 | 17  | 0   | 1   | 53  | 397 | 932 | 837   | 1,253 | 980   | 649   |

a Based on the 82-year simulation period.

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

c These results are displayed with calendar year - year type sorting.

**Table 5B1-6-2a. Total Sites Release, No Action Alternative 011221, Monthly Flow (cfs)**

| Statistic                             | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <b>Probability of Exceedance</b>      |     |     |     |     |     |     |     |     |     |     |     |     |
| 10%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 20%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 30%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 40%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 50%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 60%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 70%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 80%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 90%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| <b>Long Term</b>                      |     |     |     |     |     |     |     |     |     |     |     |     |
| Full Simulation Period <sup>a</sup>   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |     |     |     |     |     |     |     |     |     |     |
| Wet (32%)                             | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Above Normal (15%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Below Normal (17%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Dry (22%)                             | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Critical (15%)                        | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |

**Table 5B1-6-2b. Total Sites Release, Alternative 1B 011221, Monthly Flow (cfs)**

| Statistic                             | Oct   | Nov | Dec | Jan | Feb | Mar | Apr | May   | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------|-------|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|-------|
| <b>Probability of Exceedance</b>      |       |     |     |     |     |     |     |       |       |       |       |       |
| 10%                                   | 1,022 | 581 | 195 | 0   | 0   | 62  | 430 | 1,090 | 1,559 | 2,121 | 1,837 | 1,354 |
| 20%                                   | 489   | 324 | 27  | 0   | 0   | 12  | 174 | 521   | 1,347 | 1,714 | 1,544 | 1,028 |
| 30%                                   | 449   | 283 | 27  | 0   | 0   | 3   | 79  | 253   | 976   | 1,061 | 1,129 | 621   |
| 40%                                   | 439   | 29  | 0   | 0   | 0   | 0   | 47  | 92    | 462   | 736   | 577   | 489   |
| 50%                                   | 293   | 29  | 0   | 0   | 0   | 0   | 35  | 0     | 199   | 435   | 490   | 464   |
| 60%                                   | 182   | 0   | 0   | 0   | 0   | 0   | 2   | 0     | 42    | 41    | 481   | 464   |
| 70%                                   | 90    | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 36    | 41    | 449   | 301   |
| 80%                                   | 8     | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 27    | 41    | 341   | 89    |
| 90%                                   | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0     | 41    | 41    | 42    |
| <b>Long Term</b>                      |       |     |     |     |     |     |     |       |       |       |       |       |
| Full Simulation Period <sup>a</sup>   | 373   | 203 | 59  | 7   | 7   | 20  | 154 | 315   | 590   | 744   | 796   | 562   |
| <b>Water Year Types<sup>b,c</sup></b> |       |     |     |     |     |     |     |       |       |       |       |       |
| Wet (32%)                             | 284   | 93  | 102 | 1   | 3   | 7   | 9   | 3     | 24    | 39    | 379   | 403   |
| Above Normal (15%)                    | 257   | 91  | 37  | 0   | 0   | 2   | 7   | 24    | 721   | 416   | 423   | 359   |
| Below Normal (17%)                    | 356   | 286 | 43  | 21  | 9   | 7   | 78  | 328   | 471   | 713   | 891   | 444   |
| Dry (22%)                             | 644   | 420 | 49  | 0   | 18  | 30  | 351 | 533   | 1,230 | 1,663 | 1,461 | 995   |
| Critical (15%)                        | 297   | 132 | 24  | 20  | 1   | 68  | 407 | 936   | 866   | 1,255 | 961   | 597   |

**Table 5B1-6-2c. Total Sites Release, Alternative 1B 011221 minus No Action Alternative 011221, Monthly Flow (cfs)**

| Statistic                             | Oct   | Nov | Dec | Jan | Feb | Mar | Apr | May   | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------|-------|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|-------|
| <b>Probability of Exceedance</b>      |       |     |     |     |     |     |     |       |       |       |       |       |
| 10%                                   | 1,022 | 581 | 195 | 0   | 0   | 62  | 430 | 1,090 | 1,559 | 2,121 | 1,837 | 1,354 |
| 20%                                   | 489   | 324 | 27  | 0   | 0   | 12  | 174 | 521   | 1,347 | 1,714 | 1,544 | 1,028 |
| 30%                                   | 449   | 283 | 27  | 0   | 0   | 3   | 79  | 253   | 976   | 1,061 | 1,129 | 621   |
| 40%                                   | 439   | 29  | 0   | 0   | 0   | 0   | 47  | 92    | 462   | 736   | 577   | 489   |
| 50%                                   | 293   | 29  | 0   | 0   | 0   | 0   | 35  | 0     | 199   | 435   | 490   | 464   |
| 60%                                   | 182   | 0   | 0   | 0   | 0   | 0   | 2   | 0     | 42    | 41    | 481   | 464   |
| 70%                                   | 90    | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 36    | 41    | 449   | 301   |
| 80%                                   | 8     | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 27    | 41    | 341   | 89    |
| 90%                                   | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0     | 41    | 41    | 42    |
| <b>Long Term</b>                      |       |     |     |     |     |     |     |       |       |       |       |       |
| Full Simulation Period <sup>a</sup>   | 373   | 203 | 59  | 7   | 7   | 20  | 154 | 315   | 590   | 744   | 796   | 562   |
| <b>Water Year Types<sup>b,c</sup></b> |       |     |     |     |     |     |     |       |       |       |       |       |
| Wet (32%)                             | 284   | 93  | 102 | 1   | 3   | 7   | 9   | 3     | 24    | 39    | 379   | 403   |
| Above Normal (15%)                    | 257   | 91  | 37  | 0   | 0   | 2   | 7   | 24    | 721   | 416   | 423   | 359   |
| Below Normal (17%)                    | 356   | 286 | 43  | 21  | 9   | 7   | 78  | 328   | 471   | 713   | 891   | 444   |
| Dry (22%)                             | 644   | 420 | 49  | 0   | 18  | 30  | 351 | 533   | 1,230 | 1,663 | 1,461 | 995   |
| Critical (15%)                        | 297   | 132 | 24  | 20  | 1   | 68  | 407 | 936   | 866   | 1,255 | 961   | 597   |

a Based on the 82-year simulation period.

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

c These results are displayed with calendar year - year type sorting.

**Table 5B1-6-3a. Total Sites Release, No Action Alternative 011221, Monthly Flow (cfs)**

| Statistic                             | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <b>Probability of Exceedance</b>      |     |     |     |     |     |     |     |     |     |     |     |     |
| 10%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 20%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 30%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 40%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 50%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 60%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 70%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 80%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 90%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| <b>Long Term</b>                      |     |     |     |     |     |     |     |     |     |     |     |     |
| Full Simulation Period <sup>a</sup>   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |     |     |     |     |     |     |     |     |     |     |
| Wet (32%)                             | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Above Normal (15%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Below Normal (17%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Dry (22%)                             | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Critical (15%)                        | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |

**Table 5B1-6-3b. Total Sites Release, Alternative 2 011221, Monthly Flow (cfs)**

| Statistic                             | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|
| <b>Probability of Exceedance</b>      |     |     |     |     |     |     |     |     |       |       |       |       |
| 10%                                   | 919 | 382 | 161 | 0   | 0   | 23  | 272 | 587 | 1,398 | 2,078 | 1,819 | 1,414 |
| 20%                                   | 512 | 267 | 27  | 0   | 0   | 7   | 162 | 238 | 871   | 1,477 | 1,386 | 1,079 |
| 30%                                   | 459 | 42  | 27  | 0   | 0   | 2   | 79  | 120 | 334   | 1,044 | 1,090 | 527   |
| 40%                                   | 449 | 29  | 0   | 0   | 0   | 0   | 48  | 0   | 169   | 554   | 566   | 495   |
| 50%                                   | 364 | 0   | 0   | 0   | 0   | 0   | 35  | 0   | 100   | 189   | 503   | 478   |
| 60%                                   | 242 | 0   | 0   | 0   | 0   | 0   | 2   | 0   | 42    | 122   | 482   | 464   |
| 70%                                   | 100 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 34    | 41    | 455   | 447   |
| 80%                                   | 37  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 41    | 419   | 257   |
| 90%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 41    | 41    | 65    |
| <b>Long Term</b>                      |     |     |     |     |     |     |     |     |       |       |       |       |
| Full Simulation Period <sup>a</sup>   | 383 | 158 | 29  | 0   | 0   | 11  | 114 | 219 | 418   | 695   | 781   | 603   |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |     |     |     |     |     |     |       |       |       |       |
| Wet (32%)                             | 273 | 15  | 17  | 1   | 0   | 2   | 9   | 3   | 24    | 39    | 380   | 450   |
| Above Normal (15%)                    | 311 | 72  | 39  | 0   | 0   | 2   | 7   | 0   | 30    | 145   | 427   | 438   |
| Below Normal (17%)                    | 411 | 330 | 38  | 0   | 0   | 7   | 51  | 59  | 241   | 639   | 898   | 607   |
| Dry (22%)                             | 621 | 296 | 43  | 0   | 0   | 13  | 199 | 348 | 1,164 | 1,724 | 1,433 | 990   |
| Critical (15%)                        | 303 | 148 | 17  | 0   | 0   | 38  | 397 | 899 | 750   | 1,188 | 889   | 517   |

**Table 5B1-6-3c. Total Sites Release, Alternative 2 011221 minus No Action Alternative 011221, Monthly Flow (cfs)**

| Statistic                             | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|
| <b>Probability of Exceedance</b>      |     |     |     |     |     |     |     |     |       |       |       |       |
| 10%                                   | 919 | 382 | 161 | 0   | 0   | 23  | 272 | 587 | 1,398 | 2,078 | 1,819 | 1,414 |
| 20%                                   | 512 | 267 | 27  | 0   | 0   | 7   | 162 | 238 | 871   | 1,477 | 1,386 | 1,079 |
| 30%                                   | 459 | 42  | 27  | 0   | 0   | 2   | 79  | 120 | 334   | 1,044 | 1,090 | 527   |
| 40%                                   | 449 | 29  | 0   | 0   | 0   | 0   | 48  | 0   | 169   | 554   | 566   | 495   |
| 50%                                   | 364 | 0   | 0   | 0   | 0   | 0   | 35  | 0   | 100   | 189   | 503   | 478   |
| 60%                                   | 242 | 0   | 0   | 0   | 0   | 0   | 2   | 0   | 42    | 122   | 482   | 464   |
| 70%                                   | 100 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 34    | 41    | 455   | 447   |
| 80%                                   | 37  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 41    | 419   | 257   |
| 90%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 41    | 41    | 65    |
| <b>Long Term</b>                      |     |     |     |     |     |     |     |     |       |       |       |       |
| Full Simulation Period <sup>a</sup>   | 383 | 158 | 29  | 0   | 0   | 11  | 114 | 219 | 418   | 695   | 781   | 603   |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |     |     |     |     |     |     |       |       |       |       |
| Wet (32%)                             | 273 | 15  | 17  | 1   | 0   | 2   | 9   | 3   | 24    | 39    | 380   | 450   |
| Above Normal (15%)                    | 311 | 72  | 39  | 0   | 0   | 2   | 7   | 0   | 30    | 145   | 427   | 438   |
| Below Normal (17%)                    | 411 | 330 | 38  | 0   | 0   | 7   | 51  | 59  | 241   | 639   | 898   | 607   |
| Dry (22%)                             | 621 | 296 | 43  | 0   | 0   | 13  | 199 | 348 | 1,164 | 1,724 | 1,433 | 990   |
| Critical (15%)                        | 303 | 148 | 17  | 0   | 0   | 38  | 397 | 899 | 750   | 1,188 | 889   | 517   |

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).

c These results are displayed with calendar year - year type sorting.

**Table 5B1-6-4a. Total Sites Release, No Action Alternative 011221, Monthly Flow (cfs)**

| Statistic                             | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <b>Probability of Exceedance</b>      |     |     |     |     |     |     |     |     |     |     |     |     |
| 10%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 20%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 30%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 40%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 50%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 60%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 70%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 80%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 90%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| <b>Long Term</b>                      |     |     |     |     |     |     |     |     |     |     |     |     |
| Full Simulation Period <sup>a</sup>   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |     |     |     |     |     |     |     |     |     |     |
| Wet (32%)                             | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Above Normal (15%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Below Normal (17%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Dry (22%)                             | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Critical (15%)                        | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |

**Table 5B1-6-4b. Total Sites Release, Alternative 3 020121, Monthly Flow (cfs)**

| Statistic                             | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May   | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|-------|
| <b>Probability of Exceedance</b>      |     |     |     |     |     |     |     |       |       |       |       |       |
| 10%                                   | 992 | 326 | 195 | 0   | 0   | 64  | 411 | 1,410 | 2,166 | 2,462 | 1,998 | 1,293 |
| 20%                                   | 481 | 300 | 27  | 0   | 0   | 7   | 179 | 745   | 1,577 | 1,941 | 1,451 | 881   |
| 30%                                   | 449 | 127 | 27  | 0   | 0   | 1   | 112 | 320   | 1,442 | 1,679 | 1,210 | 496   |
| 40%                                   | 317 | 29  | 0   | 0   | 0   | 0   | 47  | 80    | 933   | 1,500 | 782   | 476   |
| 50%                                   | 286 | 0   | 0   | 0   | 0   | 0   | 32  | 0     | 274   | 1,017 | 489   | 464   |
| 60%                                   | 100 | 0   | 0   | 0   | 0   | 0   | 2   | 0     | 42    | 507   | 481   | 393   |
| 70%                                   | 40  | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 35    | 41    | 449   | 269   |
| 80%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 28    | 41    | 101   | 84    |
| 90%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0     | 38    | 0     | 28    |
| <b>Long Term</b>                      |     |     |     |     |     |     |     |       |       |       |       |       |
| Full Simulation Period <sup>a</sup>   | 339 | 147 | 53  | 4   | 9   | 33  | 146 | 384   | 778   | 1,052 | 831   | 498   |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |     |     |     |     |     |       |       |       |       |       |
| Wet (32%)                             | 239 | 81  | 102 | 0   | 4   | 6   | 9   | 3     | 24    | 39    | 380   | 395   |
| Above Normal (15%)                    | 379 | 100 | 37  | 0   | 0   | 1   | 7   | 24    | 999   | 1,609 | 1,188 | 506   |
| Below Normal (17%)                    | 374 | 215 | 42  | 0   | 23  | 5   | 76  | 401   | 1,161 | 1,357 | 910   | 432   |
| Dry (22%)                             | 533 | 242 | 22  | 0   | 0   | 52  | 317 | 774   | 1,433 | 1,829 | 1,263 | 803   |
| Critical (15%)                        | 182 | 116 | 24  | 24  | 27  | 126 | 408 | 962   | 760   | 1,171 | 710   | 332   |

**Table 5B1-6-4c. Total Sites Release, Alternative 3 020121 minus No Action Alternative 011221, Monthly Flow (cfs)**

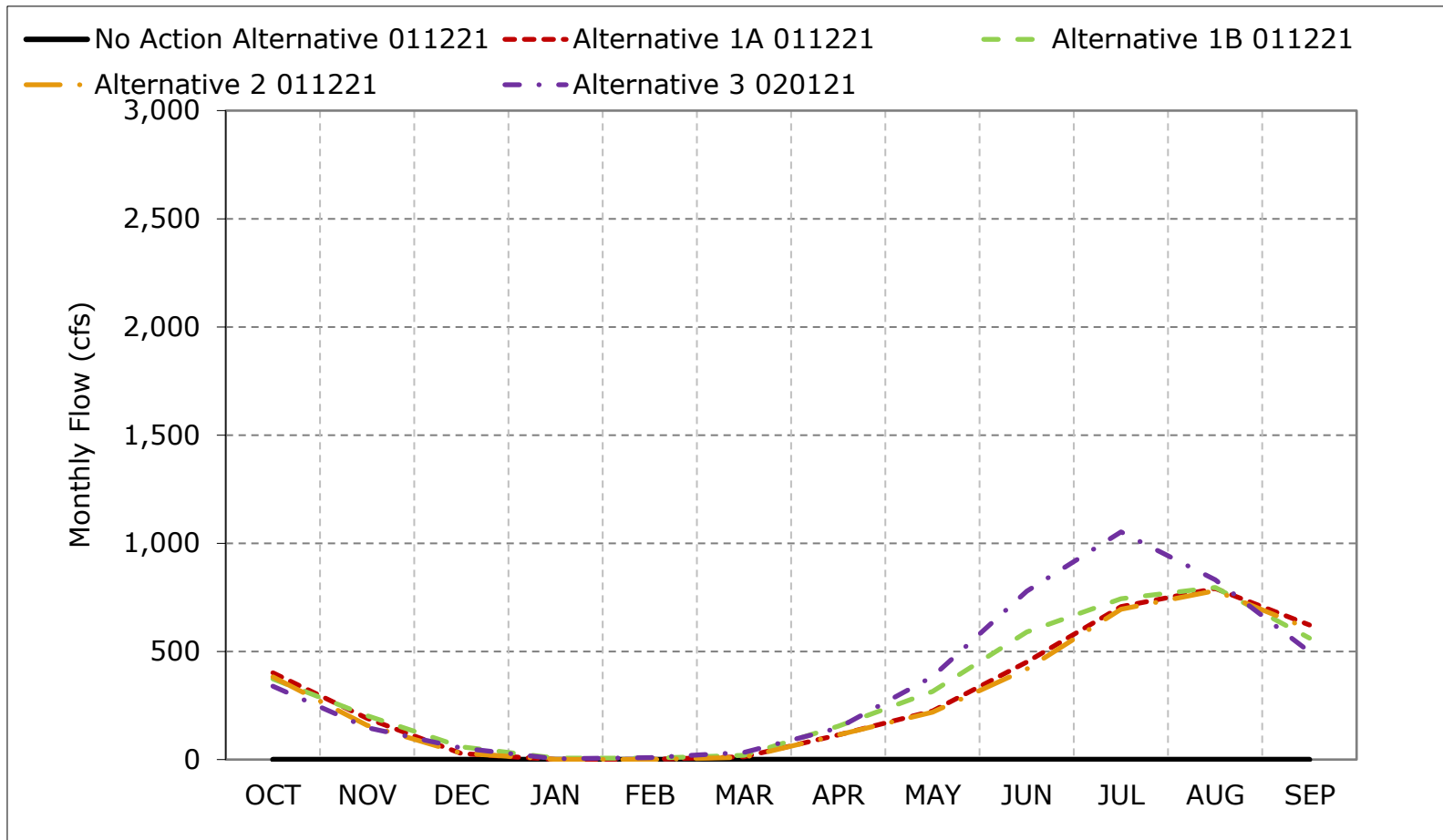
| Statistic                             | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May   | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|-------|
| <b>Probability of Exceedance</b>      |     |     |     |     |     |     |     |       |       |       |       |       |
| 10%                                   | 992 | 326 | 195 | 0   | 0   | 64  | 411 | 1,410 | 2,166 | 2,462 | 1,998 | 1,293 |
| 20%                                   | 481 | 300 | 27  | 0   | 0   | 7   | 179 | 745   | 1,577 | 1,941 | 1,451 | 881   |
| 30%                                   | 449 | 127 | 27  | 0   | 0   | 1   | 112 | 320   | 1,442 | 1,679 | 1,210 | 496   |
| 40%                                   | 317 | 29  | 0   | 0   | 0   | 0   | 47  | 80    | 933   | 1,500 | 782   | 476   |
| 50%                                   | 286 | 0   | 0   | 0   | 0   | 0   | 32  | 0     | 274   | 1,017 | 489   | 464   |
| 60%                                   | 100 | 0   | 0   | 0   | 0   | 0   | 2   | 0     | 42    | 507   | 481   | 393   |
| 70%                                   | 40  | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 35    | 41    | 449   | 269   |
| 80%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 28    | 41    | 101   | 84    |
| 90%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     | 0     | 38    | 0     | 28    |
| <b>Long Term</b>                      |     |     |     |     |     |     |     |       |       |       |       |       |
| Full Simulation Period <sup>a</sup>   | 339 | 147 | 53  | 4   | 9   | 33  | 146 | 384   | 778   | 1,052 | 831   | 498   |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |     |     |     |     |     |       |       |       |       |       |
| Wet (32%)                             | 239 | 81  | 102 | 0   | 4   | 6   | 9   | 3     | 24    | 39    | 380   | 395   |
| Above Normal (15%)                    | 379 | 100 | 37  | 0   | 0   | 1   | 7   | 24    | 999   | 1,609 | 1,188 | 506   |
| Below Normal (17%)                    | 374 | 215 | 42  | 0   | 23  | 5   | 76  | 401   | 1,161 | 1,357 | 910   | 432   |
| Dry (22%)                             | 533 | 242 | 22  | 0   | 0   | 52  | 317 | 774   | 1,433 | 1,829 | 1,263 | 803   |
| Critical (15%)                        | 182 | 116 | 24  | 24  | 27  | 126 | 408 | 962   | 760   | 1,171 | 710   | 332   |

a Based on the 82-year simulation period.

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

c These results are displayed with calendar year - year type sorting.

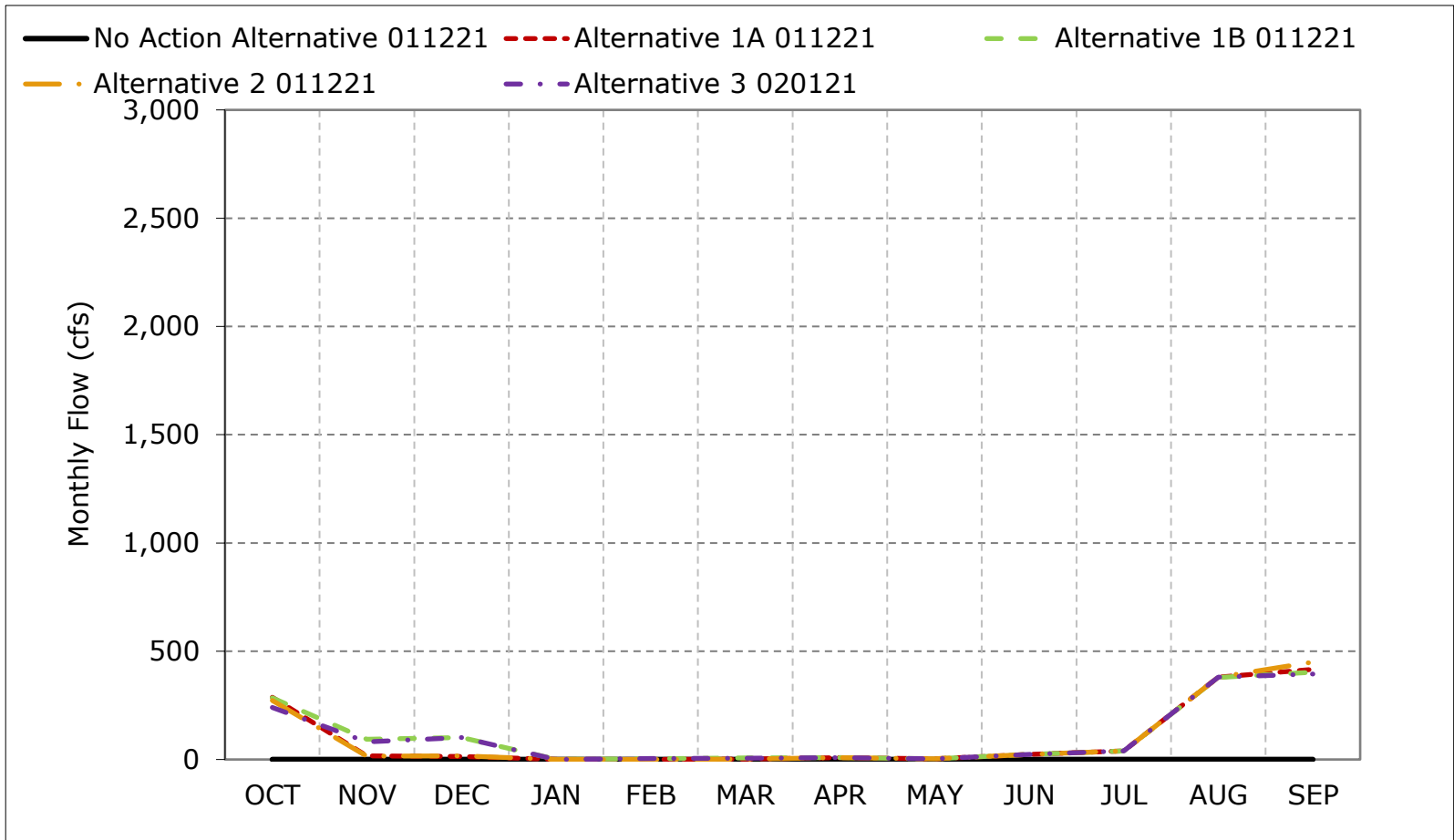
**Figure 5B1-6-1. Total Sites Release, Long-Term Average Flow**



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

\*These results are displayed with calendar year - year type sorting.

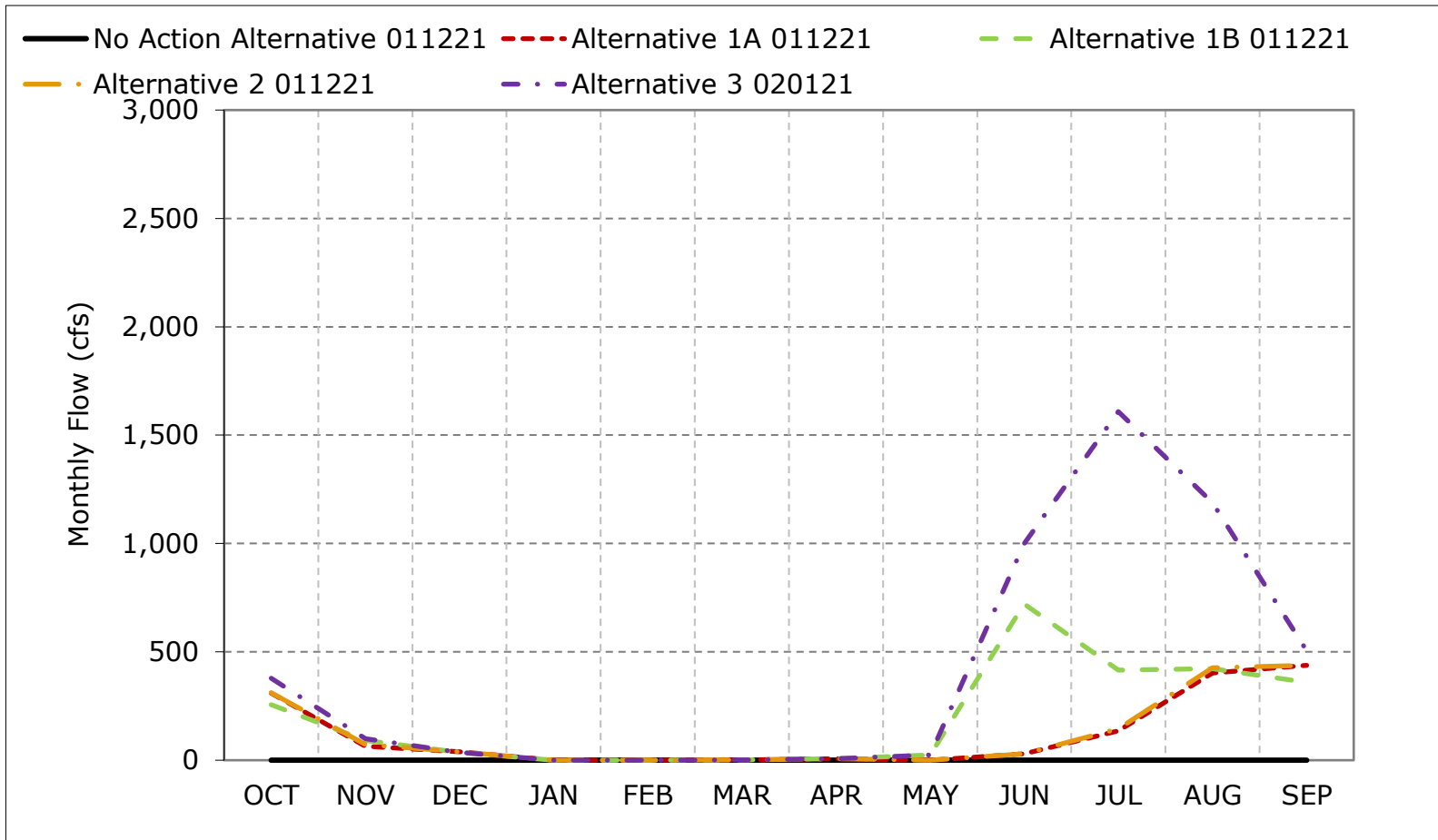
**Figure 5B1-6-2. Total Sites Release, Wet Year Average Flow**



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

\*These results are displayed with calendar year - year type sorting.

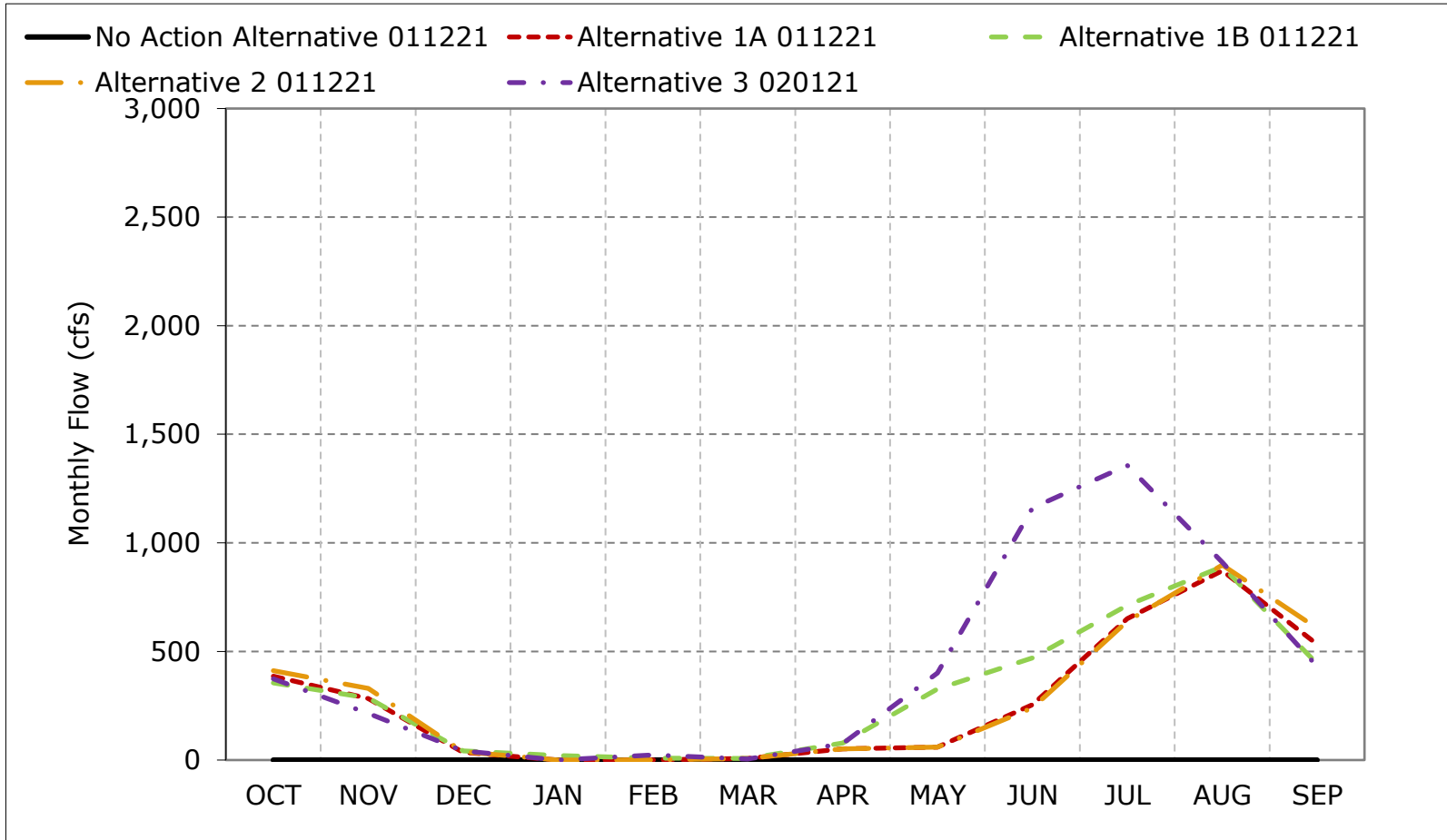
**Figure 5B1-6-3. Total Sites Release, Above Normal Year Average Flow**



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

\*These results are displayed with calendar year - year type sorting.

**Figure 5B1-6-4. Total Sites Release, Below Normal Year Average Flow**

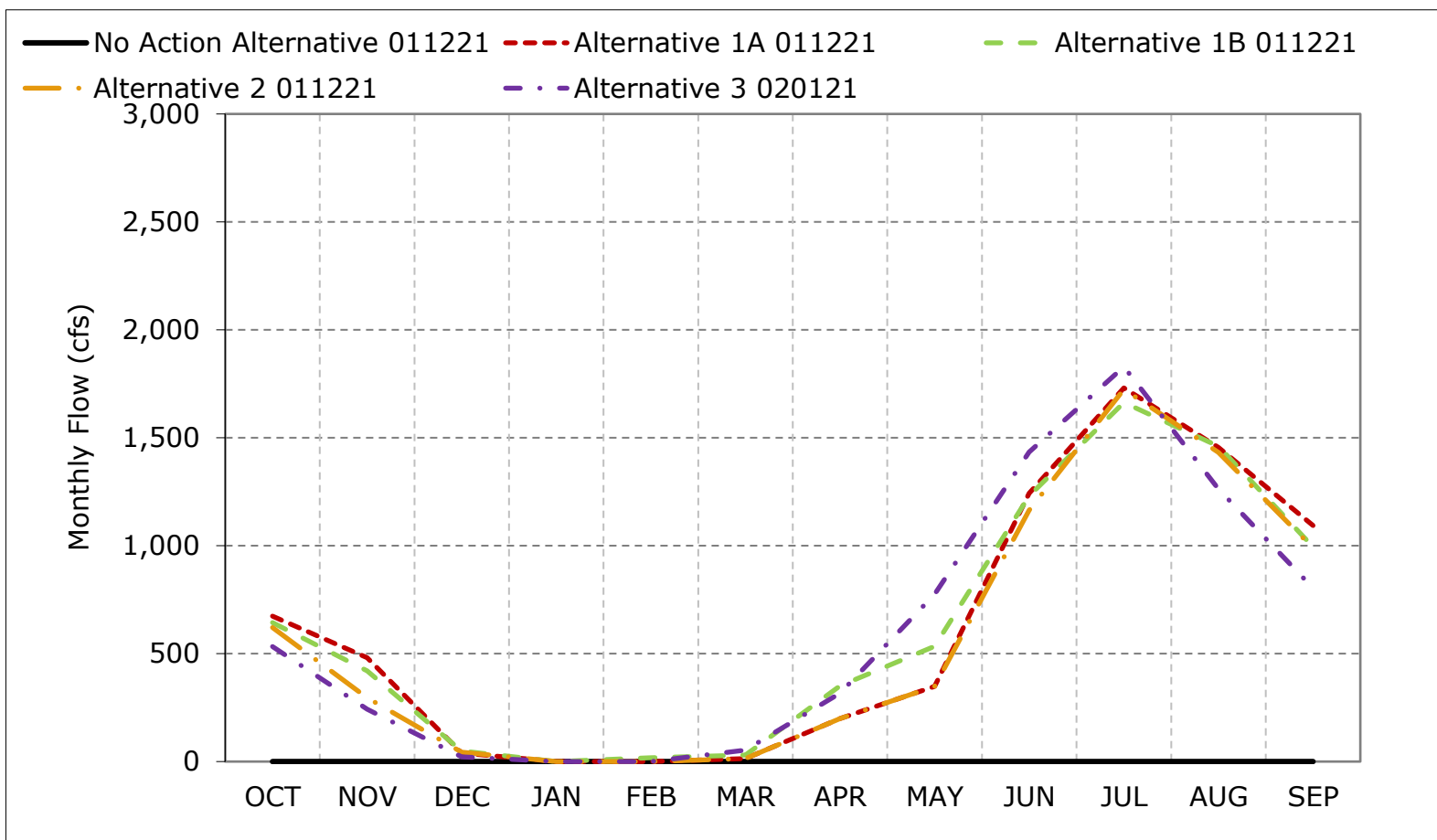


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

\*These results are displayed with calendar year - year type sorting.



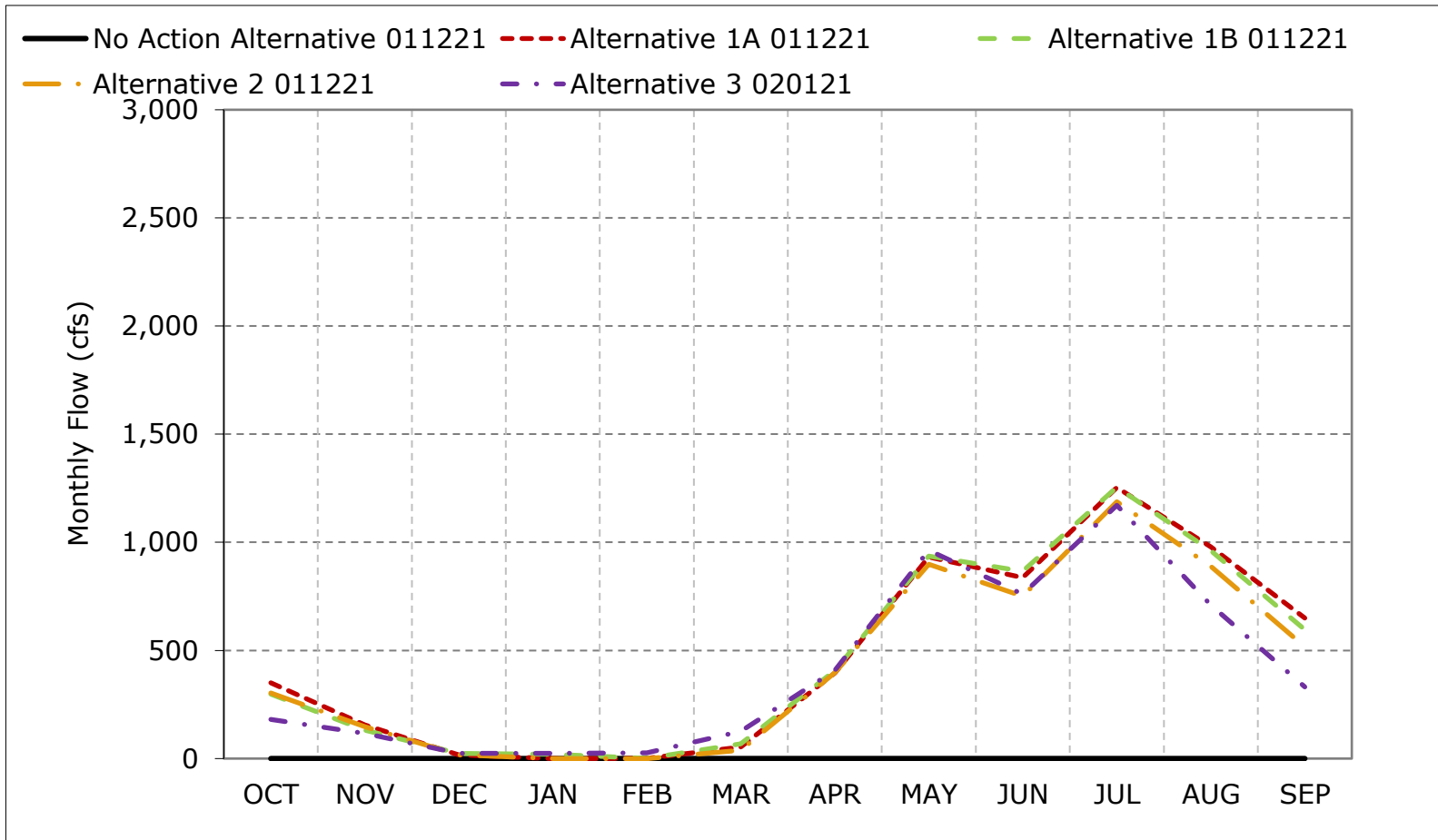
**Figure 5B1-6-5. Total Sites Release, Dry Year Average Flow**



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

\*These results are displayed with calendar year - year type sorting.

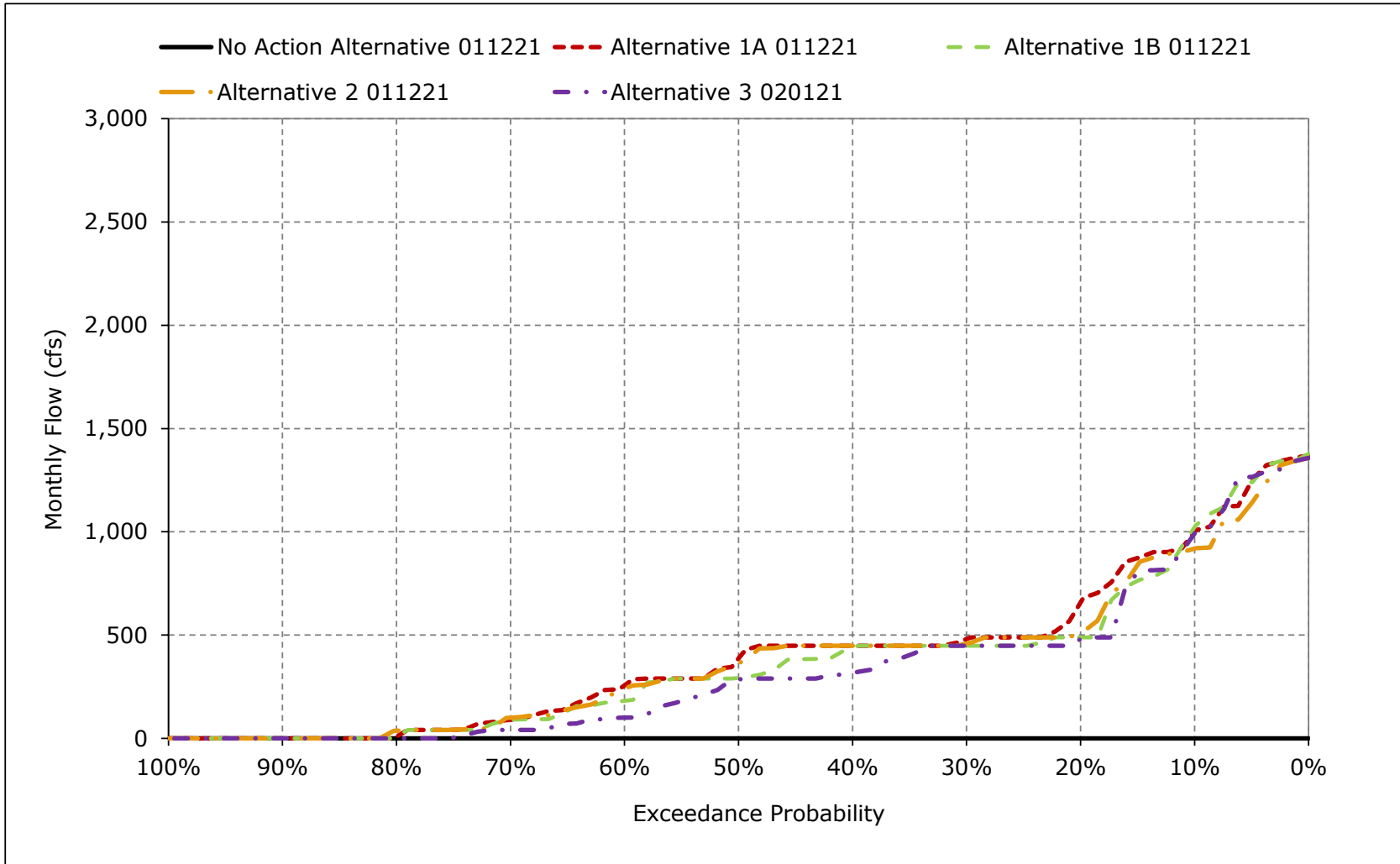
**Figure 5B1-6-6. Total Sites Release, Critical Year Average Flow**



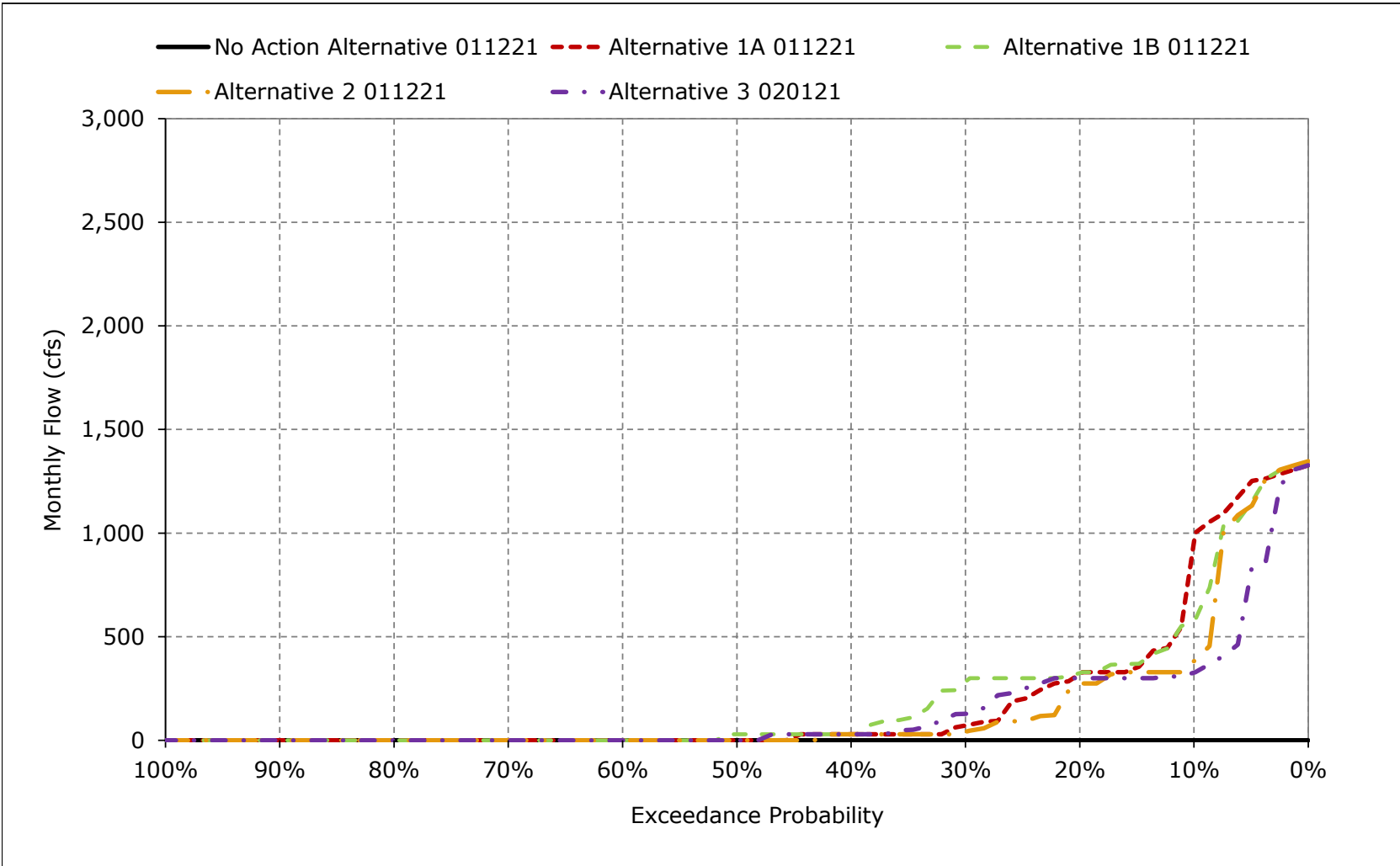
\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

\*These results are displayed with calendar year - year type sorting.

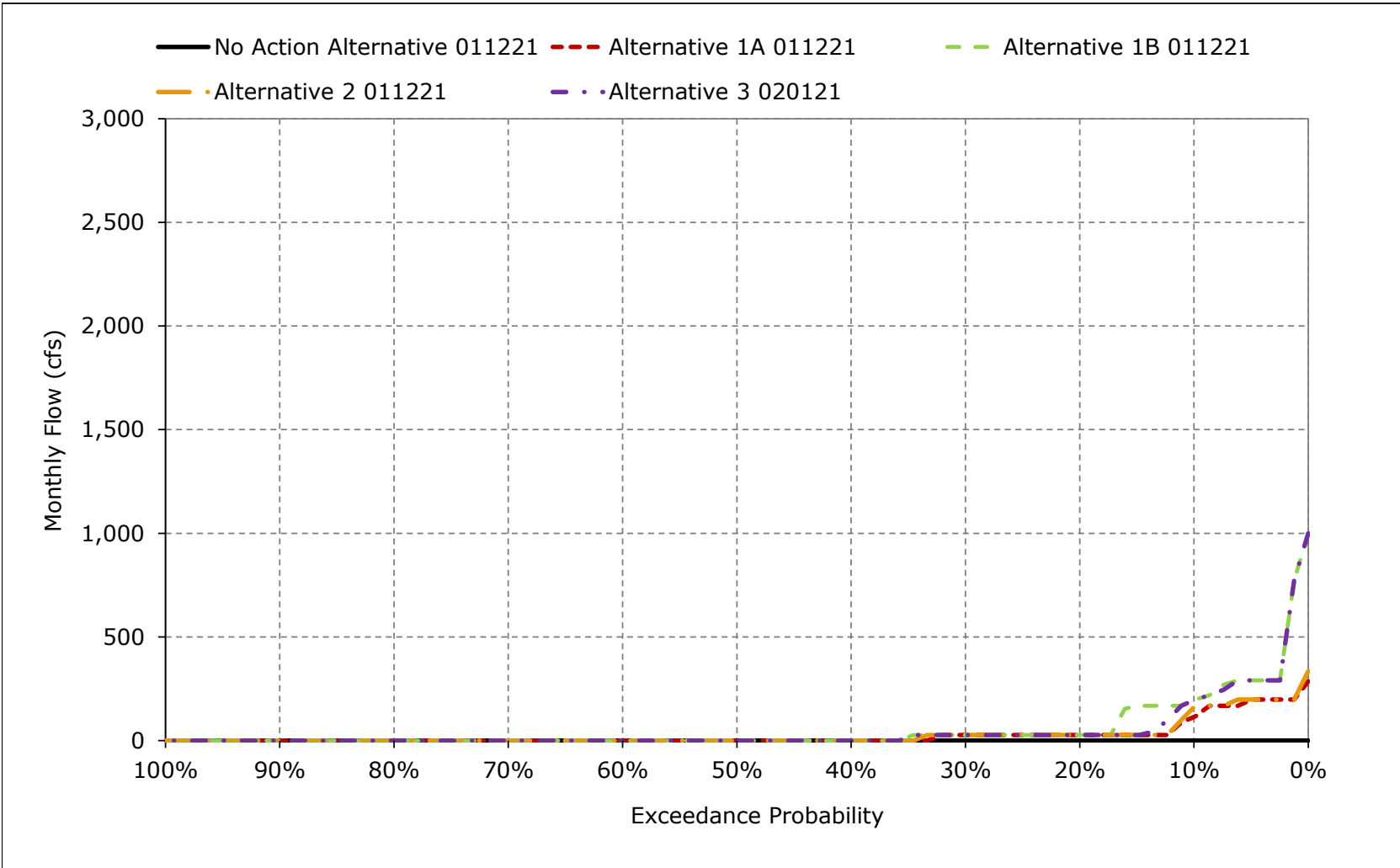
**Figure 5B1-6-7. Total Sites Release, October**



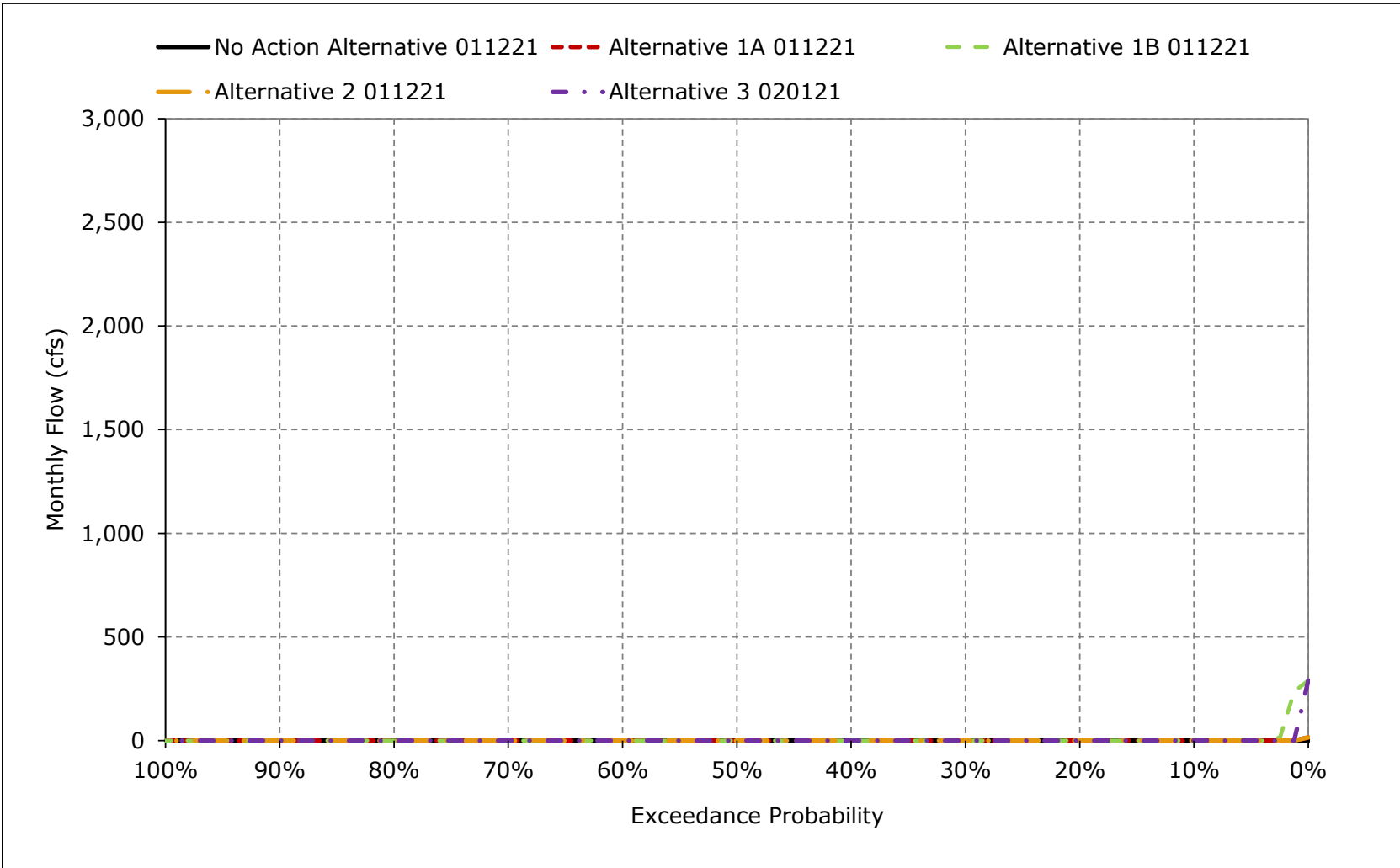
**Figure 5B1-6-8. Total Sites Release, November**



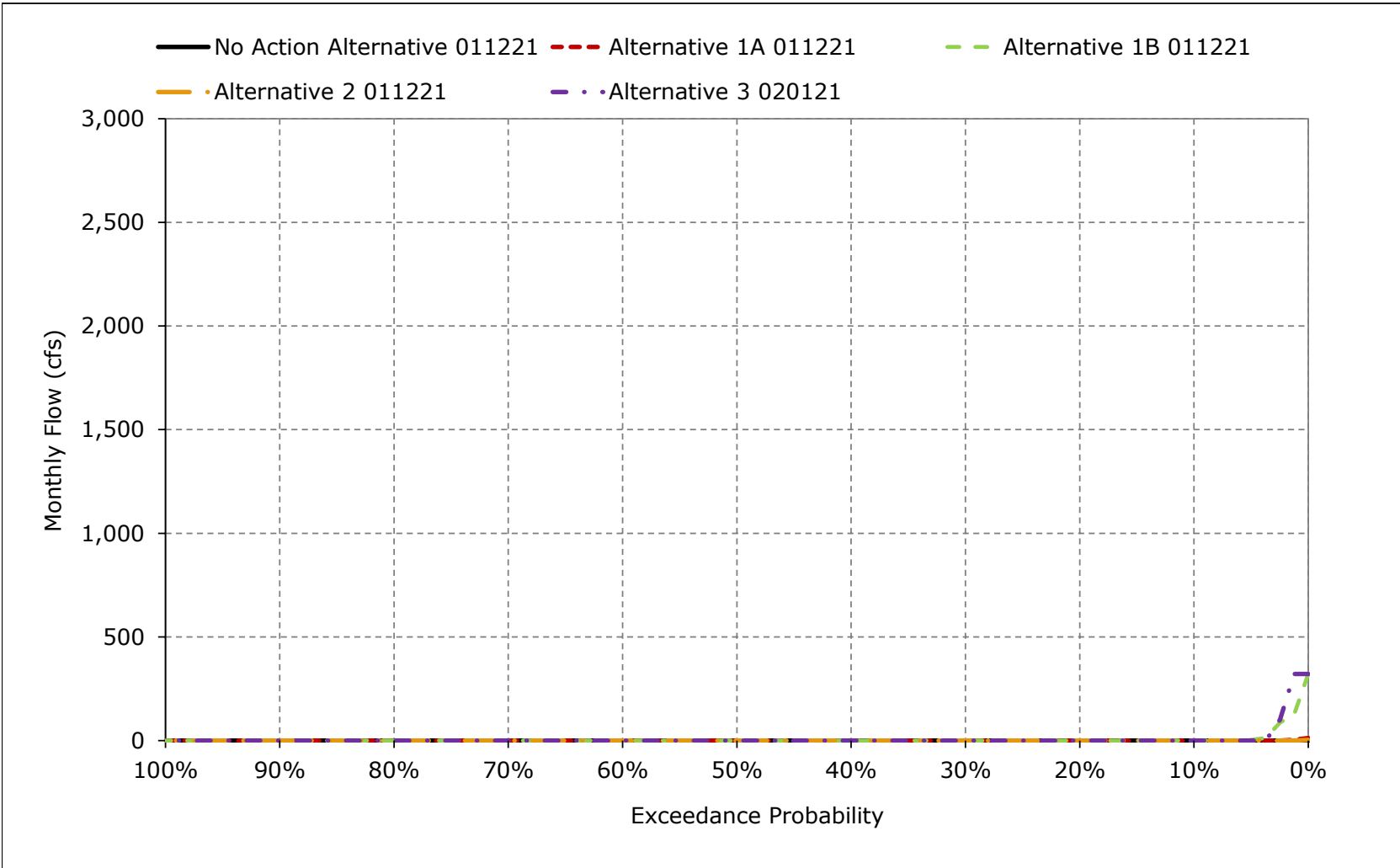
**Figure 5B1-6-9. Total Sites Release, December**



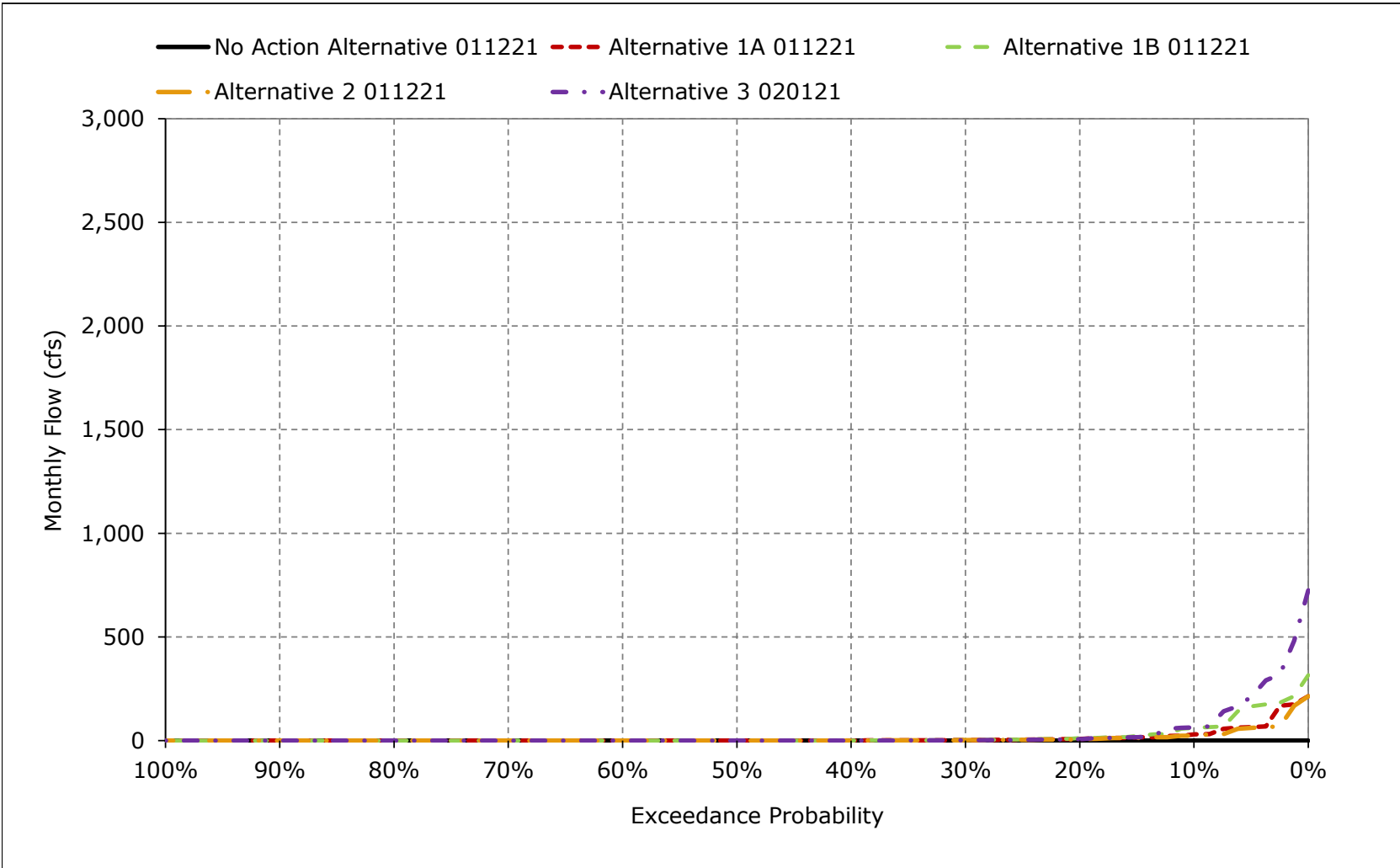
**Figure 5B1-6-10. Total Sites Release, January**



**Figure 5B1-6-11. Total Sites Release, February**

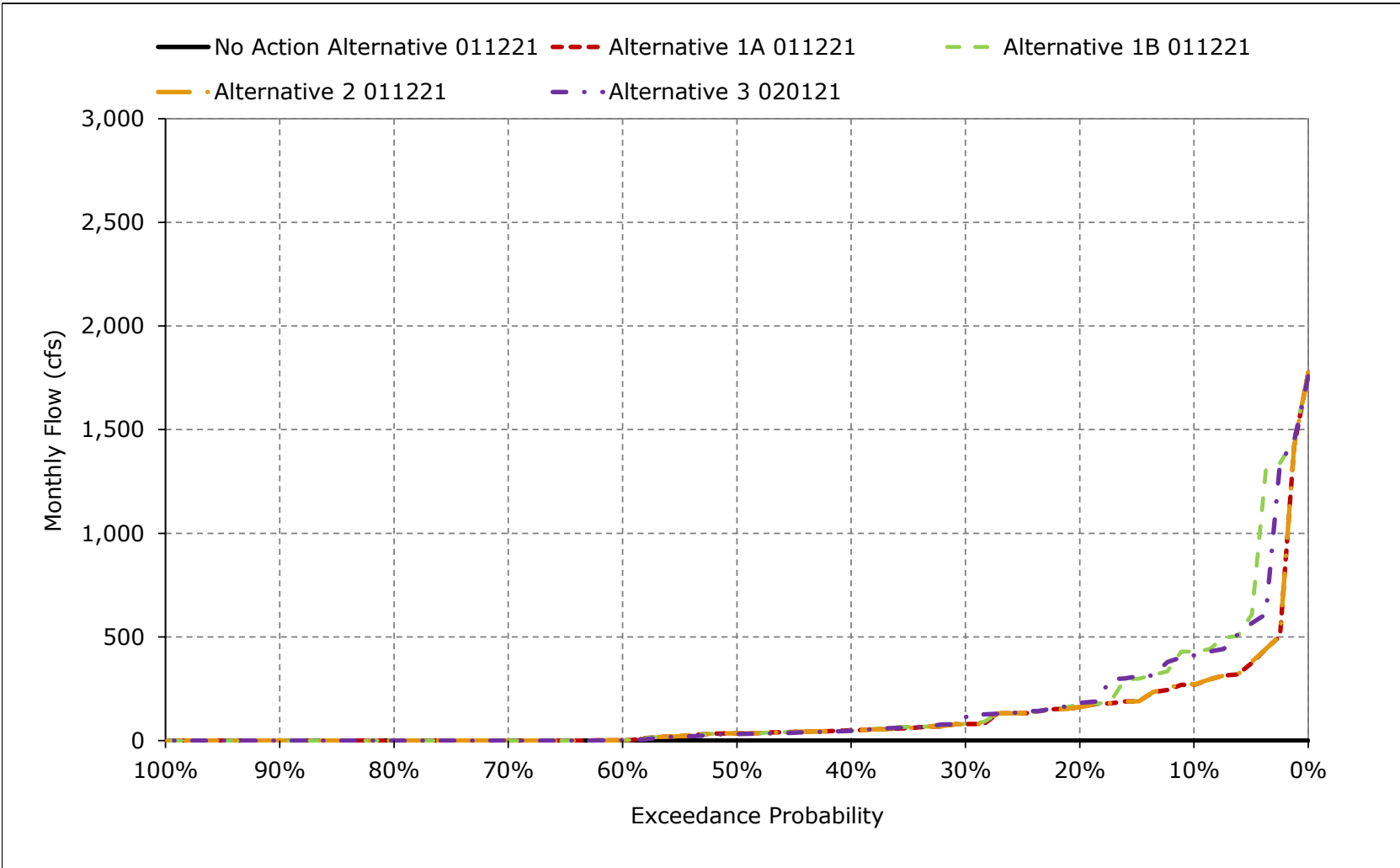


**Figure 5B1-6-12. Total Sites Release, March**

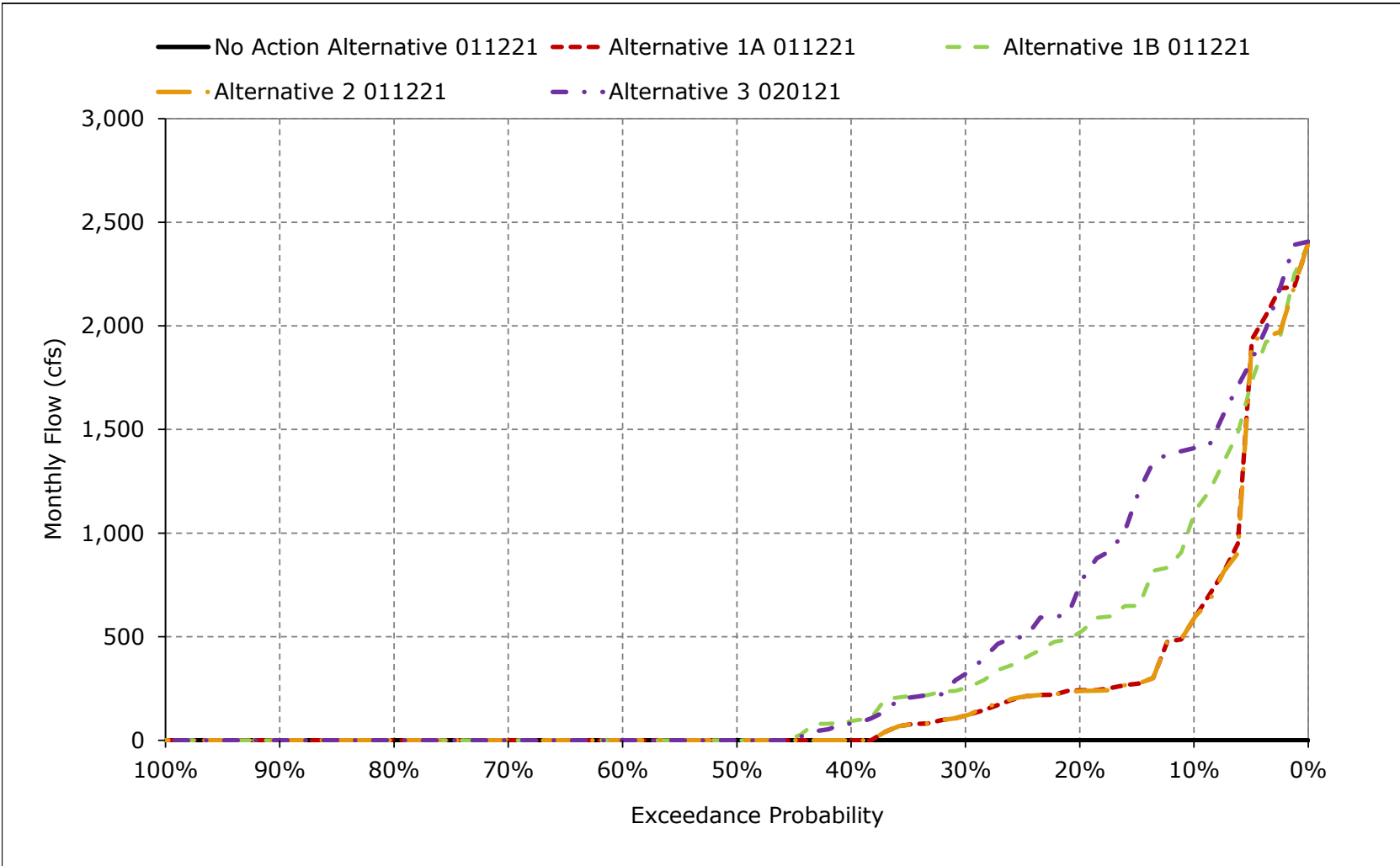




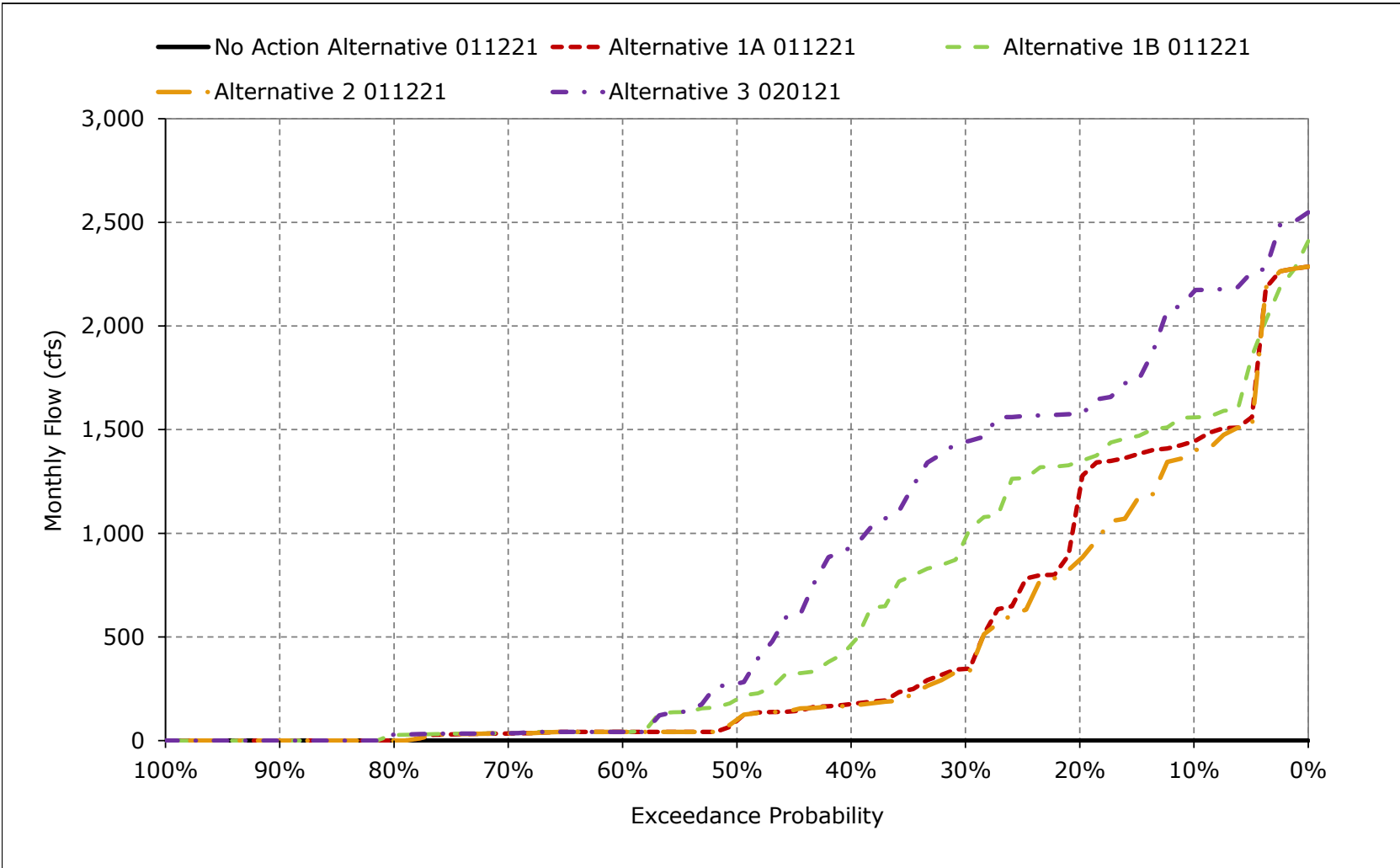
**Figure 5B1-6-13. Total Sites Release, April**



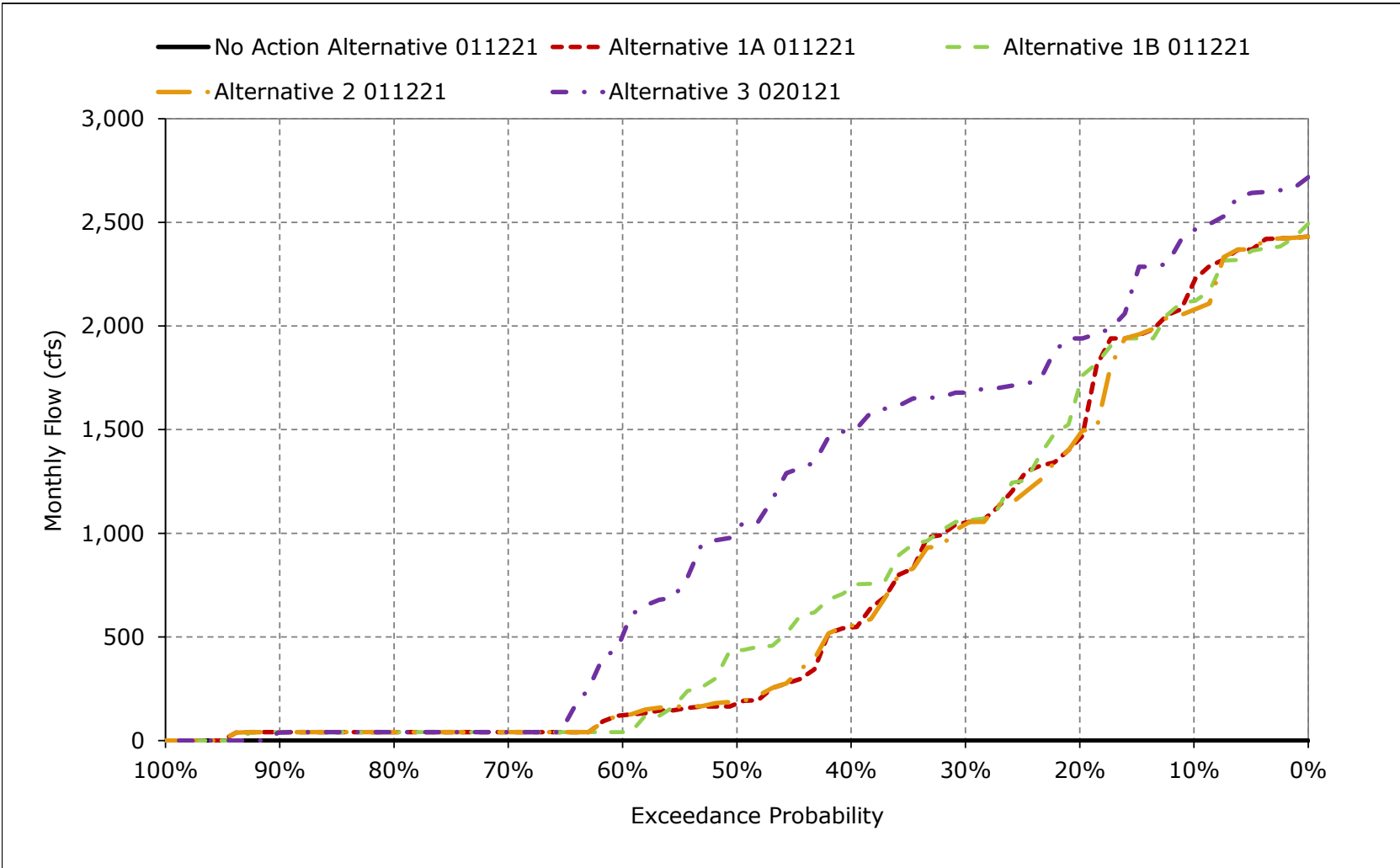
**Figure 5B1-6-14. Total Sites Release, May**



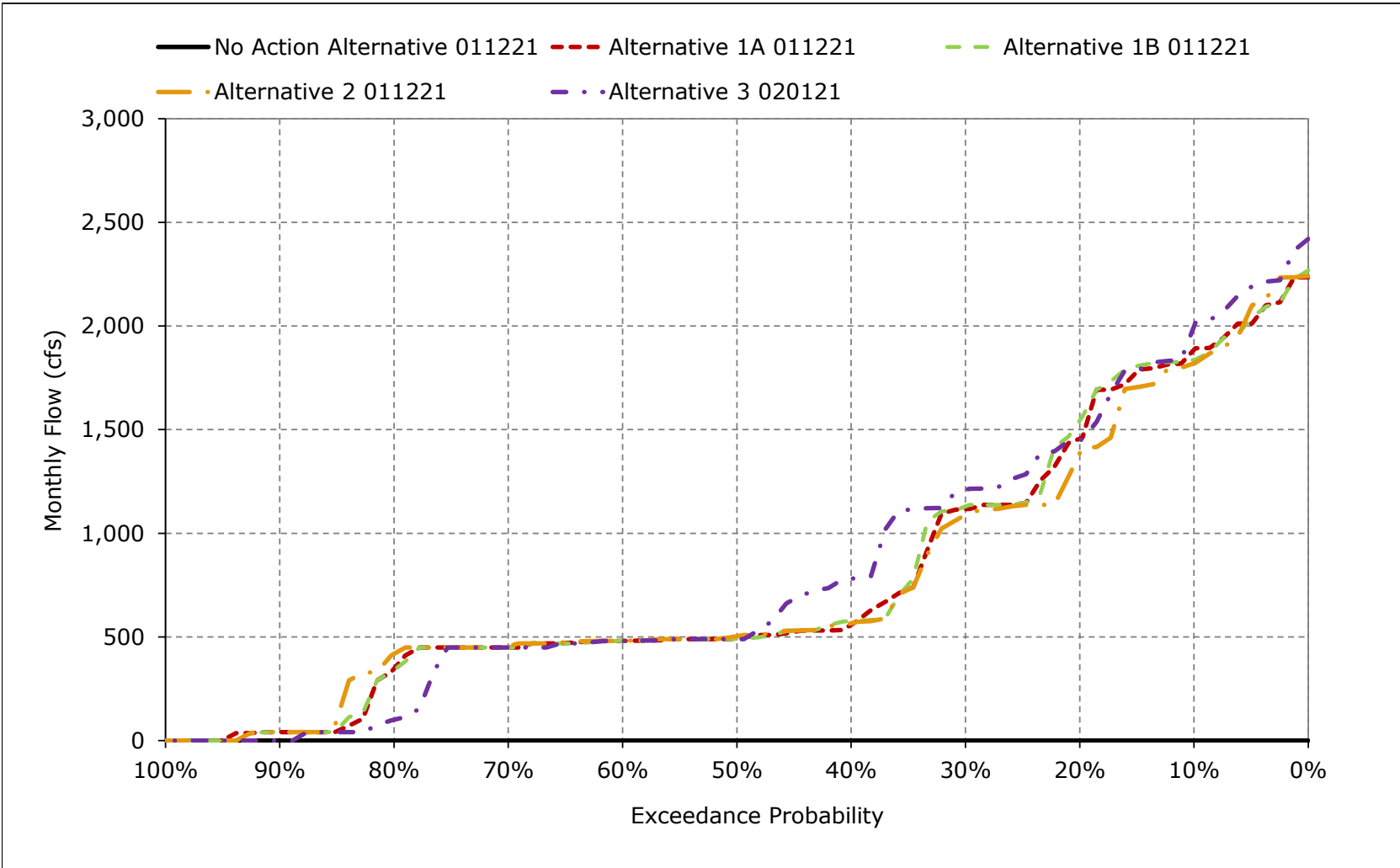
**Figure 5B1-6-15. Total Sites Release, June**



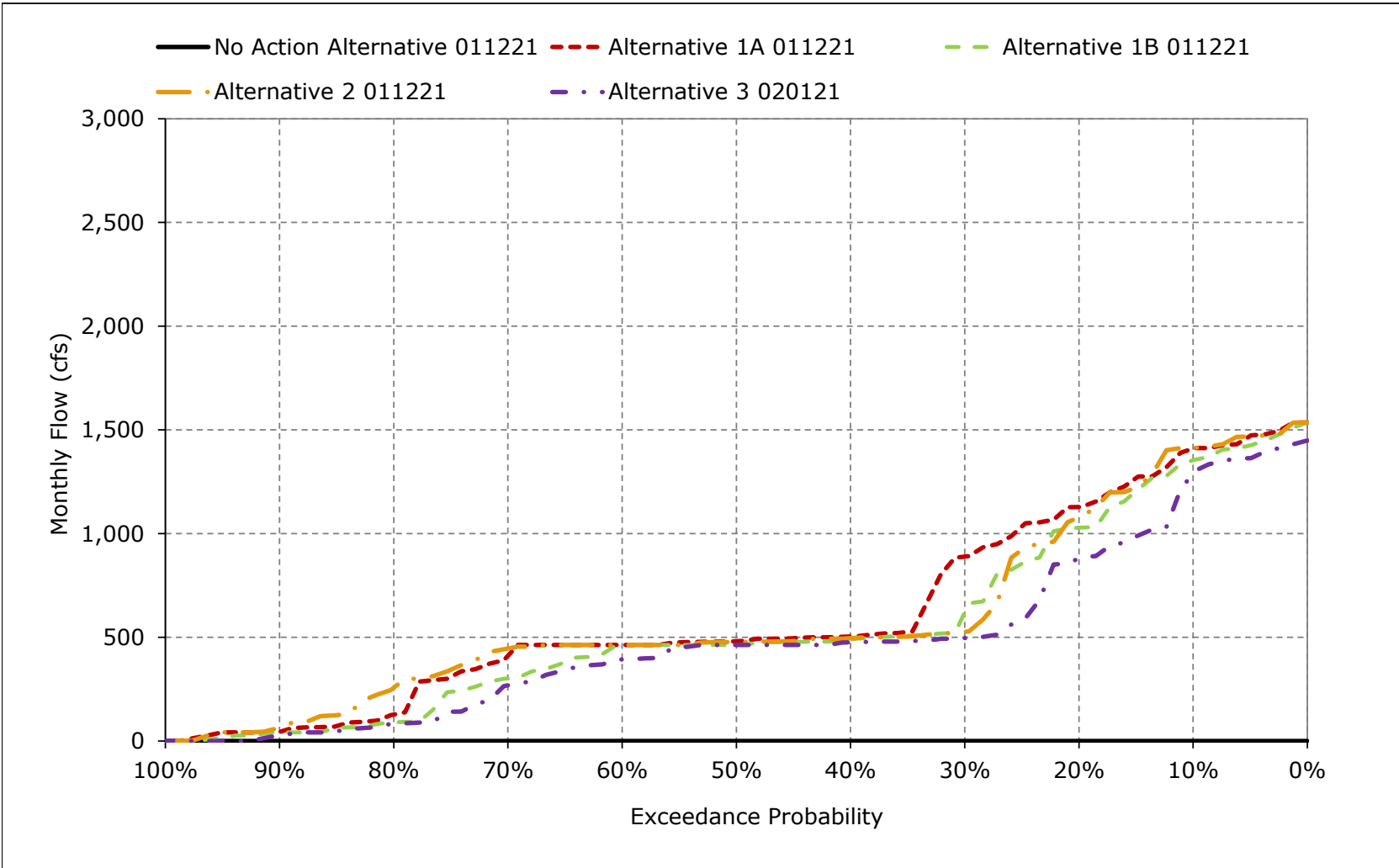
**Figure 5B1-6-16. Total Sites Release, July**



**Figure 5B1-6-17. Total Sites Release, August**



**Figure 5B1-6-18. Total Sites Release, September**



**Table 5B1-7-1a. Sites Reservoir Storage, No Action Alternative 011221, End of Month Storage (TAF)**

| Statistic                             | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <b>Probability of Exceedance</b>      |     |     |     |     |     |     |     |     |     |     |     |     |
| 10%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 20%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 30%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 40%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 50%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 60%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 70%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 80%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 90%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| <b>Long Term</b>                      |     |     |     |     |     |     |     |     |     |     |     |     |
| Full Simulation Period <sup>a</sup>   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |     |     |     |     |     |     |     |     |     |     |
| Wet (32%)                             | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Above Normal (15%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Below Normal (17%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Dry (22%)                             | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Critical (15%)                        | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |

**Table 5B1-7-1b. Sites Reservoir Storage, Alternative 1A 011221, End of Month Storage (TAF)**

| Statistic                             | Oct   | Nov   | Dec   | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>Probability of Exceedance</b>      |       |       |       |       |       |       |       |       |       |       |       |       |
| 10%                                   | 1,386 | 1,456 | 1,457 | 1,500 | 1,500 | 1,500 | 1,500 | 1,495 | 1,500 | 1,487 | 1,450 | 1,416 |
| 20%                                   | 1,371 | 1,369 | 1,372 | 1,447 | 1,500 | 1,500 | 1,496 | 1,488 | 1,479 | 1,465 | 1,431 | 1,396 |
| 30%                                   | 1,286 | 1,263 | 1,287 | 1,357 | 1,393 | 1,496 | 1,487 | 1,475 | 1,457 | 1,427 | 1,374 | 1,335 |
| 40%                                   | 1,069 | 1,059 | 1,095 | 1,113 | 1,197 | 1,392 | 1,420 | 1,382 | 1,302 | 1,200 | 1,158 | 1,118 |
| 50%                                   | 905   | 894   | 898   | 951   | 1,048 | 1,062 | 1,051 | 1,105 | 1,130 | 1,060 | 966   | 924   |
| 60%                                   | 780   | 806   | 809   | 843   | 886   | 933   | 950   | 967   | 894   | 873   | 836   | 803   |
| 70%                                   | 465   | 440   | 448   | 567   | 616   | 785   | 829   | 803   | 755   | 683   | 594   | 500   |
| 80%                                   | 279   | 224   | 317   | 357   | 481   | 616   | 619   | 614   | 542   | 440   | 356   | 304   |
| 90%                                   | 162   | 172   | 176   | 212   | 263   | 373   | 364   | 349   | 324   | 253   | 210   | 171   |
| <b>Long Term</b>                      |       |       |       |       |       |       |       |       |       |       |       |       |
| Full Simulation Period <sup>a</sup>   | 848   | 846   | 862   | 917   | 974   | 1,044 | 1,056 | 1,042 | 1,014 | 964   | 910   | 868   |
| <b>Water Year Types<sup>b,c</sup></b> |       |       |       |       |       |       |       |       |       |       |       |       |
| Wet (32%)                             | 1,306 | 1,326 | 1,329 | 1,175 | 1,257 | 1,325 | 1,373 | 1,381 | 1,382 | 1,374 | 1,347 | 1,318 |
| Above Normal (15%)                    | 1,063 | 1,072 | 1,080 | 920   | 999   | 1,125 | 1,140 | 1,139 | 1,140 | 1,123 | 1,090 | 1,058 |
| Below Normal (17%)                    | 744   | 728   | 755   | 789   | 851   | 931   | 937   | 929   | 914   | 866   | 806   | 770   |
| Dry (22%)                             | 540   | 514   | 539   | 888   | 921   | 985   | 970   | 944   | 863   | 749   | 653   | 584   |
| Critical (15%)                        | 225   | 216   | 244   | 551   | 559   | 577   | 551   | 490   | 436   | 353   | 289   | 248   |

**Table 5B1-7-1c. Sites Reservoir Storage, Alternative 1A 011221 minus No Action Alternative 011221, End of Month Storage (TAF)**

| Statistic                             | Oct   | Nov   | Dec   | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>Probability of Exceedance</b>      |       |       |       |       |       |       |       |       |       |       |       |       |
| 10%                                   | 1,386 | 1,456 | 1,457 | 1,500 | 1,500 | 1,500 | 1,500 | 1,495 | 1,500 | 1,487 | 1,450 | 1,416 |
| 20%                                   | 1,371 | 1,369 | 1,372 | 1,447 | 1,500 | 1,500 | 1,496 | 1,488 | 1,479 | 1,465 | 1,431 | 1,396 |
| 30%                                   | 1,286 | 1,263 | 1,287 | 1,357 | 1,393 | 1,496 | 1,487 | 1,475 | 1,457 | 1,427 | 1,374 | 1,335 |
| 40%                                   | 1,069 | 1,059 | 1,095 | 1,113 | 1,197 | 1,392 | 1,420 | 1,382 | 1,302 | 1,200 | 1,158 | 1,118 |
| 50%                                   | 905   | 894   | 898   | 951   | 1,048 | 1,062 | 1,051 | 1,105 | 1,130 | 1,060 | 966   | 924   |
| 60%                                   | 780   | 806   | 809   | 843   | 886   | 933   | 950   | 967   | 894   | 873   | 836   | 803   |
| 70%                                   | 465   | 440   | 448   | 567   | 616   | 785   | 829   | 803   | 755   | 683   | 594   | 500   |
| 80%                                   | 279   | 224   | 317   | 357   | 481   | 616   | 619   | 614   | 542   | 440   | 356   | 304   |
| 90%                                   | 162   | 172   | 176   | 212   | 263   | 373   | 364   | 349   | 324   | 253   | 210   | 171   |
| <b>Long Term</b>                      |       |       |       |       |       |       |       |       |       |       |       |       |
| Full Simulation Period <sup>a</sup>   | 848   | 846   | 862   | 917   | 974   | 1,044 | 1,056 | 1,042 | 1,014 | 964   | 910   | 868   |
| <b>Water Year Types<sup>b,c</sup></b> |       |       |       |       |       |       |       |       |       |       |       |       |
| Wet (32%)                             | 1,306 | 1,326 | 1,329 | 1,175 | 1,257 | 1,325 | 1,373 | 1,381 | 1,382 | 1,374 | 1,347 | 1,318 |
| Above Normal (15%)                    | 1,063 | 1,072 | 1,080 | 920   | 999   | 1,125 | 1,140 | 1,139 | 1,140 | 1,123 | 1,090 | 1,058 |
| Below Normal (17%)                    | 744   | 728   | 755   | 789   | 851   | 931   | 937   | 929   | 914   | 866   | 806   | 770   |
| Dry (22%)                             | 540   | 514   | 539   | 888   | 921   | 985   | 970   | 944   | 863   | 749   | 653   | 584   |
| Critical (15%)                        | 225   | 216   | 244   | 551   | 559   | 577   | 551   | 490   | 436   | 353   | 289   | 248   |

a Based on the 82-year simulation period.

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

c These results are displayed with calendar year - year type sorting.

**Table 5B1-7-2a. Sites Reservoir Storage, No Action Alternative 011221, End of Month Storage (TAF)**

| Statistic                             | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <b>Probability of Exceedance</b>      |     |     |     |     |     |     |     |     |     |     |     |     |
| 10%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 20%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 30%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 40%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 50%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 60%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 70%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 80%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 90%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| <b>Long Term</b>                      |     |     |     |     |     |     |     |     |     |     |     |     |
| Full Simulation Period <sup>a</sup>   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |     |     |     |     |     |     |     |     |     |     |
| Wet (32%)                             | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Above Normal (15%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Below Normal (17%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Dry (22%)                             | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Critical (15%)                        | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |

**Table 5B1-7-2b. Sites Reservoir Storage, Alternative 1B 011221, End of Month Storage (TAF)**

| Statistic                             | Oct   | Nov   | Dec   | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>Probability of Exceedance</b>      |       |       |       |       |       |       |       |       |       |       |       |       |
| 10%                                   | 1,391 | 1,442 | 1,437 | 1,499 | 1,500 | 1,500 | 1,499 | 1,493 | 1,498 | 1,485 | 1,449 | 1,415 |
| 20%                                   | 1,370 | 1,366 | 1,365 | 1,397 | 1,499 | 1,499 | 1,494 | 1,487 | 1,474 | 1,460 | 1,426 | 1,396 |
| 30%                                   | 1,208 | 1,205 | 1,208 | 1,302 | 1,367 | 1,469 | 1,468 | 1,399 | 1,374 | 1,336 | 1,289 | 1,253 |
| 40%                                   | 999   | 980   | 1,035 | 1,064 | 1,125 | 1,272 | 1,274 | 1,263 | 1,215 | 1,130 | 1,057 | 1,000 |
| 50%                                   | 788   | 780   | 783   | 859   | 939   | 963   | 959   | 1,036 | 1,043 | 991   | 868   | 818   |
| 60%                                   | 706   | 694   | 701   | 748   | 799   | 822   | 856   | 859   | 793   | 766   | 738   | 708   |
| 70%                                   | 354   | 328   | 372   | 437   | 527   | 681   | 755   | 729   | 686   | 553   | 468   | 379   |
| 80%                                   | 213   | 188   | 228   | 305   | 421   | 557   | 566   | 546   | 476   | 365   | 283   | 232   |
| 90%                                   | 144   | 144   | 158   | 194   | 247   | 357   | 346   | 323   | 299   | 231   | 168   | 153   |
| <b>Long Term</b>                      |       |       |       |       |       |       |       |       |       |       |       |       |
| Full Simulation Period <sup>a</sup>   | 792   | 789   | 804   | 861   | 923   | 995   | 1,006 | 988   | 953   | 900   | 846   | 808   |
| <b>Water Year Types<sup>b,c</sup></b> |       |       |       |       |       |       |       |       |       |       |       |       |
| Wet (32%)                             | 1,289 | 1,303 | 1,301 | 1,132 | 1,224 | 1,295 | 1,350 | 1,363 | 1,365 | 1,358 | 1,331 | 1,300 |
| Above Normal (15%)                    | 977   | 988   | 1,000 | 865   | 953   | 1,080 | 1,094 | 1,093 | 1,052 | 1,018 | 984   | 958   |
| Below Normal (17%)                    | 649   | 633   | 660   | 719   | 784   | 863   | 868   | 843   | 816   | 765   | 704   | 673   |
| Dry (22%)                             | 459   | 436   | 460   | 811   | 843   | 910   | 887   | 849   | 769   | 659   | 564   | 501   |
| Critical (15%)                        | 193   | 185   | 213   | 512   | 521   | 538   | 512   | 451   | 395   | 312   | 250   | 212   |

**Table 5B1-7-2c. Sites Reservoir Storage, Alternative 1B 011221 minus No Action Alternative 011221, End of Month Storage (TAF)**

| Statistic                             | Oct   | Nov   | Dec   | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>Probability of Exceedance</b>      |       |       |       |       |       |       |       |       |       |       |       |       |
| 10%                                   | 1,391 | 1,442 | 1,437 | 1,499 | 1,500 | 1,500 | 1,499 | 1,493 | 1,498 | 1,485 | 1,449 | 1,415 |
| 20%                                   | 1,370 | 1,366 | 1,365 | 1,397 | 1,499 | 1,499 | 1,494 | 1,487 | 1,474 | 1,460 | 1,426 | 1,396 |
| 30%                                   | 1,208 | 1,205 | 1,208 | 1,302 | 1,367 | 1,469 | 1,468 | 1,399 | 1,374 | 1,336 | 1,289 | 1,253 |
| 40%                                   | 999   | 980   | 1,035 | 1,064 | 1,125 | 1,272 | 1,274 | 1,263 | 1,215 | 1,130 | 1,057 | 1,000 |
| 50%                                   | 788   | 780   | 783   | 859   | 939   | 963   | 959   | 1,036 | 1,043 | 991   | 868   | 818   |
| 60%                                   | 706   | 694   | 701   | 748   | 799   | 822   | 856   | 859   | 793   | 766   | 738   | 708   |
| 70%                                   | 354   | 328   | 372   | 437   | 527   | 681   | 755   | 729   | 686   | 553   | 468   | 379   |
| 80%                                   | 213   | 188   | 228   | 305   | 421   | 557   | 566   | 546   | 476   | 365   | 283   | 232   |
| 90%                                   | 144   | 144   | 158   | 194   | 247   | 357   | 346   | 323   | 299   | 231   | 168   | 153   |
| <b>Long Term</b>                      |       |       |       |       |       |       |       |       |       |       |       |       |
| Full Simulation Period <sup>a</sup>   | 792   | 789   | 804   | 861   | 923   | 995   | 1,006 | 988   | 953   | 900   | 846   | 808   |
| <b>Water Year Types<sup>b,c</sup></b> |       |       |       |       |       |       |       |       |       |       |       |       |
| Wet (32%)                             | 1,289 | 1,303 | 1,301 | 1,132 | 1,224 | 1,295 | 1,350 | 1,363 | 1,365 | 1,358 | 1,331 | 1,300 |
| Above Normal (15%)                    | 977   | 988   | 1,000 | 865   | 953   | 1,080 | 1,094 | 1,093 | 1,052 | 1,018 | 984   | 958   |
| Below Normal (17%)                    | 649   | 633   | 660   | 719   | 784   | 863   | 868   | 843   | 816   | 765   | 704   | 673   |
| Dry (22%)                             | 459   | 436   | 460   | 811   | 843   | 910   | 887   | 849   | 769   | 659   | 564   | 501   |
| Critical (15%)                        | 193   | 185   | 213   | 512   | 521   | 538   | 512   | 451   | 395   | 312   | 250   | 212   |

a Based on the 82-year simulation period.

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

c These results are displayed with calendar year - year type sorting.



**Table 5B1-7-3a. Sites Reservoir Storage, No Action Alternative 011221, End of Month Storage (TAF)**

| Statistic                             | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <b>Probability of Exceedance</b>      |     |     |     |     |     |     |     |     |     |     |     |     |
| 10%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 20%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 30%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 40%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 50%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 60%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 70%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 80%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 90%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| <b>Long Term</b>                      |     |     |     |     |     |     |     |     |     |     |     |     |
| Full Simulation Period <sup>a</sup>   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |     |     |     |     |     |     |     |     |     |     |
| Wet (32%)                             | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Above Normal (15%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Below Normal (17%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Dry (22%)                             | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Critical (15%)                        | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |

**Table 5B1-7-3b. Sites Reservoir Storage, Alternative 2 011221, End of Month Storage (TAF)**

| Statistic                             | Oct   | Nov   | Dec   | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>Probability of Exceedance</b>      |       |       |       |       |       |       |       |       |       |       |       |       |
| 10%                                   | 1,162 | 1,227 | 1,229 | 1,270 | 1,270 | 1,270 | 1,270 | 1,265 | 1,270 | 1,258 | 1,221 | 1,188 |
| 20%                                   | 1,147 | 1,148 | 1,155 | 1,221 | 1,270 | 1,270 | 1,267 | 1,261 | 1,252 | 1,238 | 1,208 | 1,173 |
| 30%                                   | 1,117 | 1,108 | 1,119 | 1,145 | 1,213 | 1,270 | 1,261 | 1,256 | 1,237 | 1,220 | 1,186 | 1,150 |
| 40%                                   | 939   | 931   | 972   | 1,036 | 1,111 | 1,228 | 1,223 | 1,190 | 1,150 | 1,082 | 1,004 | 956   |
| 50%                                   | 757   | 777   | 774   | 834   | 859   | 974   | 991   | 990   | 966   | 918   | 846   | 776   |
| 60%                                   | 654   | 623   | 618   | 670   | 714   | 791   | 870   | 825   | 813   | 768   | 706   | 663   |
| 70%                                   | 323   | 309   | 373   | 437   | 543   | 674   | 706   | 692   | 651   | 518   | 403   | 338   |
| 80%                                   | 201   | 201   | 240   | 308   | 436   | 552   | 544   | 524   | 480   | 381   | 268   | 227   |
| 90%                                   | 156   | 163   | 173   | 244   | 267   | 353   | 342   | 329   | 306   | 238   | 176   | 165   |
| <b>Long Term</b>                      |       |       |       |       |       |       |       |       |       |       |       |       |
| Full Simulation Period <sup>a</sup>   | 715   | 715   | 732   | 786   | 841   | 906   | 915   | 902   | 876   | 827   | 774   | 733   |
| <b>Water Year Types<sup>b,c</sup></b> |       |       |       |       |       |       |       |       |       |       |       |       |
| Wet (32%)                             | 1,110 | 1,129 | 1,132 | 1,008 | 1,084 | 1,139 | 1,180 | 1,188 | 1,189 | 1,182 | 1,153 | 1,120 |
| Above Normal (15%)                    | 962   | 970   | 978   | 812   | 891   | 1,016 | 1,031 | 1,031 | 1,031 | 1,014 | 980   | 949   |
| Below Normal (17%)                    | 615   | 600   | 627   | 664   | 726   | 805   | 812   | 804   | 791   | 744   | 682   | 642   |
| Dry (22%)                             | 410   | 395   | 419   | 743   | 776   | 836   | 822   | 795   | 720   | 607   | 513   | 450   |
| Critical (15%)                        | 189   | 180   | 209   | 485   | 493   | 512   | 486   | 427   | 378   | 300   | 242   | 209   |

**Table 5B1-7-3c. Sites Reservoir Storage, Alternative 2 011221 minus No Action Alternative 011221, End of Month Storage (TAF)**

| Statistic                             | Oct   | Nov   | Dec   | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>Probability of Exceedance</b>      |       |       |       |       |       |       |       |       |       |       |       |       |
| 10%                                   | 1,162 | 1,227 | 1,229 | 1,270 | 1,270 | 1,270 | 1,270 | 1,265 | 1,270 | 1,258 | 1,221 | 1,188 |
| 20%                                   | 1,147 | 1,148 | 1,155 | 1,221 | 1,270 | 1,270 | 1,267 | 1,261 | 1,252 | 1,238 | 1,208 | 1,173 |
| 30%                                   | 1,117 | 1,108 | 1,119 | 1,145 | 1,213 | 1,270 | 1,261 | 1,256 | 1,237 | 1,220 | 1,186 | 1,150 |
| 40%                                   | 939   | 931   | 972   | 1,036 | 1,111 | 1,228 | 1,223 | 1,190 | 1,150 | 1,082 | 1,004 | 956   |
| 50%                                   | 757   | 777   | 774   | 834   | 859   | 974   | 991   | 990   | 966   | 918   | 846   | 776   |
| 60%                                   | 654   | 623   | 618   | 670   | 714   | 791   | 870   | 825   | 813   | 768   | 706   | 663   |
| 70%                                   | 323   | 309   | 373   | 437   | 543   | 674   | 706   | 692   | 651   | 518   | 403   | 338   |
| 80%                                   | 201   | 201   | 240   | 308   | 436   | 552   | 544   | 524   | 480   | 381   | 268   | 227   |
| 90%                                   | 156   | 163   | 173   | 244   | 267   | 353   | 342   | 329   | 306   | 238   | 176   | 165   |
| <b>Long Term</b>                      |       |       |       |       |       |       |       |       |       |       |       |       |
| Full Simulation Period <sup>a</sup>   | 715   | 715   | 732   | 786   | 841   | 906   | 915   | 902   | 876   | 827   | 774   | 733   |
| <b>Water Year Types<sup>b,c</sup></b> |       |       |       |       |       |       |       |       |       |       |       |       |
| Wet (32%)                             | 1,110 | 1,129 | 1,132 | 1,008 | 1,084 | 1,139 | 1,180 | 1,188 | 1,189 | 1,182 | 1,153 | 1,120 |
| Above Normal (15%)                    | 962   | 970   | 978   | 812   | 891   | 1,016 | 1,031 | 1,031 | 1,031 | 1,014 | 980   | 949   |
| Below Normal (17%)                    | 615   | 600   | 627   | 664   | 726   | 805   | 812   | 804   | 791   | 744   | 682   | 642   |
| Dry (22%)                             | 410   | 395   | 419   | 743   | 776   | 836   | 822   | 795   | 720   | 607   | 513   | 450   |
| Critical (15%)                        | 189   | 180   | 209   | 485   | 493   | 512   | 486   | 427   | 378   | 300   | 242   | 209   |

a Based on the 82-year simulation period.

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

c These results are displayed with calendar year - year type sorting.

**Table 5B1-7-4a. Sites Reservoir Storage, No Action Alternative 011221, End of Month Storage (TAF)**

| Statistic                             | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <b>Probability of Exceedance</b>      |     |     |     |     |     |     |     |     |     |     |     |     |
| 10%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 20%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 30%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 40%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 50%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 60%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 70%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 80%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 90%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| <b>Long Term</b>                      |     |     |     |     |     |     |     |     |     |     |     |     |
| Full Simulation Period <sup>a</sup>   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |     |     |     |     |     |     |     |     |     |     |
| Wet (32%)                             | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Above Normal (15%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Below Normal (17%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Dry (22%)                             | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Critical (15%)                        | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |

**Table 5B1-7-4b. Sites Reservoir Storage, Alternative 3 020121, End of Month Storage (TAF)**

| Statistic                             | Oct   | Nov   | Dec   | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>Probability of Exceedance</b>      |       |       |       |       |       |       |       |       |       |       |       |       |
| 10%                                   | 1,388 | 1,447 | 1,439 | 1,500 | 1,500 | 1,500 | 1,498 | 1,493 | 1,496 | 1,484 | 1,448 | 1,413 |
| 20%                                   | 1,365 | 1,357 | 1,365 | 1,378 | 1,485 | 1,500 | 1,493 | 1,487 | 1,473 | 1,460 | 1,422 | 1,391 |
| 30%                                   | 1,014 | 1,002 | 1,026 | 1,078 | 1,153 | 1,344 | 1,433 | 1,384 | 1,264 | 1,159 | 1,082 | 1,042 |
| 40%                                   | 812   | 791   | 800   | 825   | 976   | 1,098 | 1,107 | 1,078 | 1,044 | 948   | 861   | 826   |
| 50%                                   | 616   | 622   | 649   | 739   | 796   | 933   | 944   | 955   | 862   | 772   | 653   | 621   |
| 60%                                   | 500   | 496   | 494   | 575   | 600   | 705   | 761   | 771   | 708   | 647   | 605   | 551   |
| 70%                                   | 213   | 223   | 287   | 379   | 486   | 603   | 606   | 552   | 464   | 360   | 271   | 220   |
| 80%                                   | 171   | 170   | 181   | 257   | 368   | 458   | 468   | 454   | 399   | 272   | 190   | 177   |
| 90%                                   | 118   | 117   | 141   | 171   | 213   | 288   | 281   | 278   | 239   | 174   | 144   | 127   |
| <b>Long Term</b>                      |       |       |       |       |       |       |       |       |       |       |       |       |
| Full Simulation Period <sup>a</sup>   | 701   | 703   | 720   | 778   | 843   | 922   | 938   | 918   | 873   | 802   | 746   | 713   |
| <b>Water Year Types<sup>b,c</sup></b> |       |       |       |       |       |       |       |       |       |       |       |       |
| Wet (32%)                             | 1,267 | 1,282 | 1,280 | 1,057 | 1,152 | 1,245 | 1,315 | 1,333 | 1,338 | 1,330 | 1,304 | 1,276 |
| Above Normal (15%)                    | 796   | 811   | 836   | 805   | 901   | 1,035 | 1,050 | 1,048 | 991   | 884   | 804   | 769   |
| Below Normal (17%)                    | 503   | 494   | 523   | 648   | 720   | 800   | 806   | 776   | 709   | 618   | 557   | 527   |
| Dry (22%)                             | 328   | 315   | 340   | 679   | 713   | 779   | 758   | 705   | 614   | 495   | 412   | 361   |
| Critical (15%)                        | 169   | 162   | 190   | 446   | 453   | 464   | 438   | 375   | 326   | 249   | 202   | 180   |

**Table 5B1-7-4c. Sites Reservoir Storage, Alternative 3 020121 minus No Action Alternative 011221, End of Month Storage (TAF)**

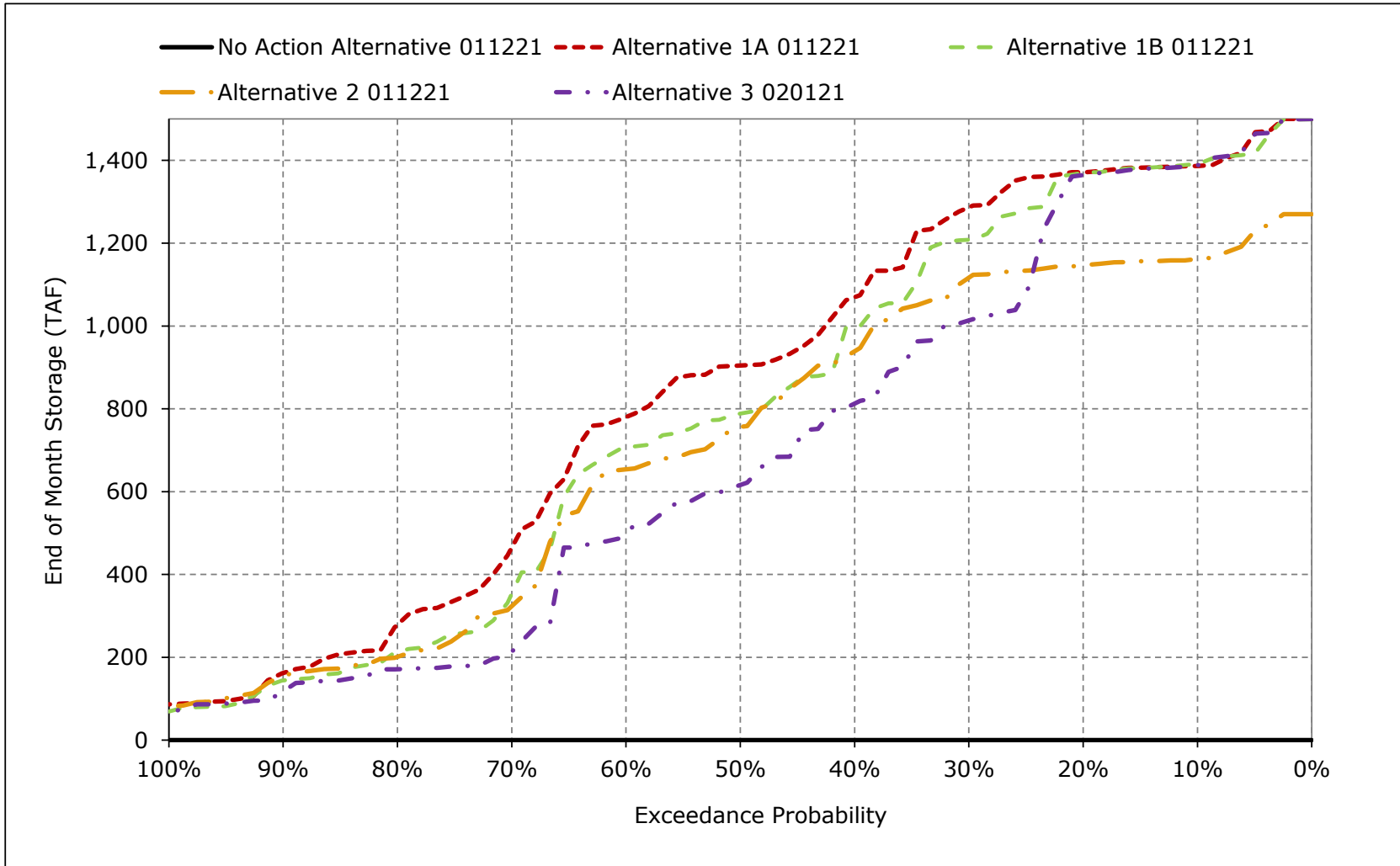
| Statistic                             | Oct   | Nov   | Dec   | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>Probability of Exceedance</b>      |       |       |       |       |       |       |       |       |       |       |       |       |
| 10%                                   | 1,388 | 1,447 | 1,439 | 1,500 | 1,500 | 1,500 | 1,498 | 1,493 | 1,496 | 1,484 | 1,448 | 1,413 |
| 20%                                   | 1,365 | 1,357 | 1,365 | 1,378 | 1,485 | 1,500 | 1,493 | 1,487 | 1,473 | 1,460 | 1,422 | 1,391 |
| 30%                                   | 1,014 | 1,002 | 1,026 | 1,078 | 1,153 | 1,344 | 1,433 | 1,384 | 1,264 | 1,159 | 1,082 | 1,042 |
| 40%                                   | 812   | 791   | 800   | 825   | 976   | 1,098 | 1,107 | 1,078 | 1,044 | 948   | 861   | 826   |
| 50%                                   | 616   | 622   | 649   | 739   | 796   | 933   | 944   | 955   | 862   | 772   | 653   | 621   |
| 60%                                   | 500   | 496   | 494   | 575   | 600   | 705   | 761   | 771   | 708   | 647   | 605   | 551   |
| 70%                                   | 213   | 223   | 287   | 379   | 486   | 603   | 606   | 552   | 464   | 360   | 271   | 220   |
| 80%                                   | 171   | 170   | 181   | 257   | 368   | 458   | 468   | 454   | 399   | 272   | 190   | 177   |
| 90%                                   | 118   | 117   | 141   | 171   | 213   | 288   | 281   | 278   | 239   | 174   | 144   | 127   |
| <b>Long Term</b>                      |       |       |       |       |       |       |       |       |       |       |       |       |
| Full Simulation Period <sup>a</sup>   | 701   | 703   | 720   | 778   | 843   | 922   | 938   | 918   | 873   | 802   | 746   | 713   |
| <b>Water Year Types<sup>b,c</sup></b> |       |       |       |       |       |       |       |       |       |       |       |       |
| Wet (32%)                             | 1,267 | 1,282 | 1,280 | 1,057 | 1,152 | 1,245 | 1,315 | 1,333 | 1,338 | 1,330 | 1,304 | 1,276 |
| Above Normal (15%)                    | 796   | 811   | 836   | 805   | 901   | 1,035 | 1,050 | 1,048 | 991   | 884   | 804   | 769   |
| Below Normal (17%)                    | 503   | 494   | 523   | 648   | 720   | 800   | 806   | 776   | 709   | 618   | 557   | 527   |
| Dry (22%)                             | 328   | 315   | 340   | 679   | 713   | 779   | 758   | 705   | 614   | 495   | 412   | 361   |
| Critical (15%)                        | 169   | 162   | 190   | 446   | 453   | 464   | 438   | 375   | 326   | 249   | 202   | 180   |

a Based on the 82-year simulation period.

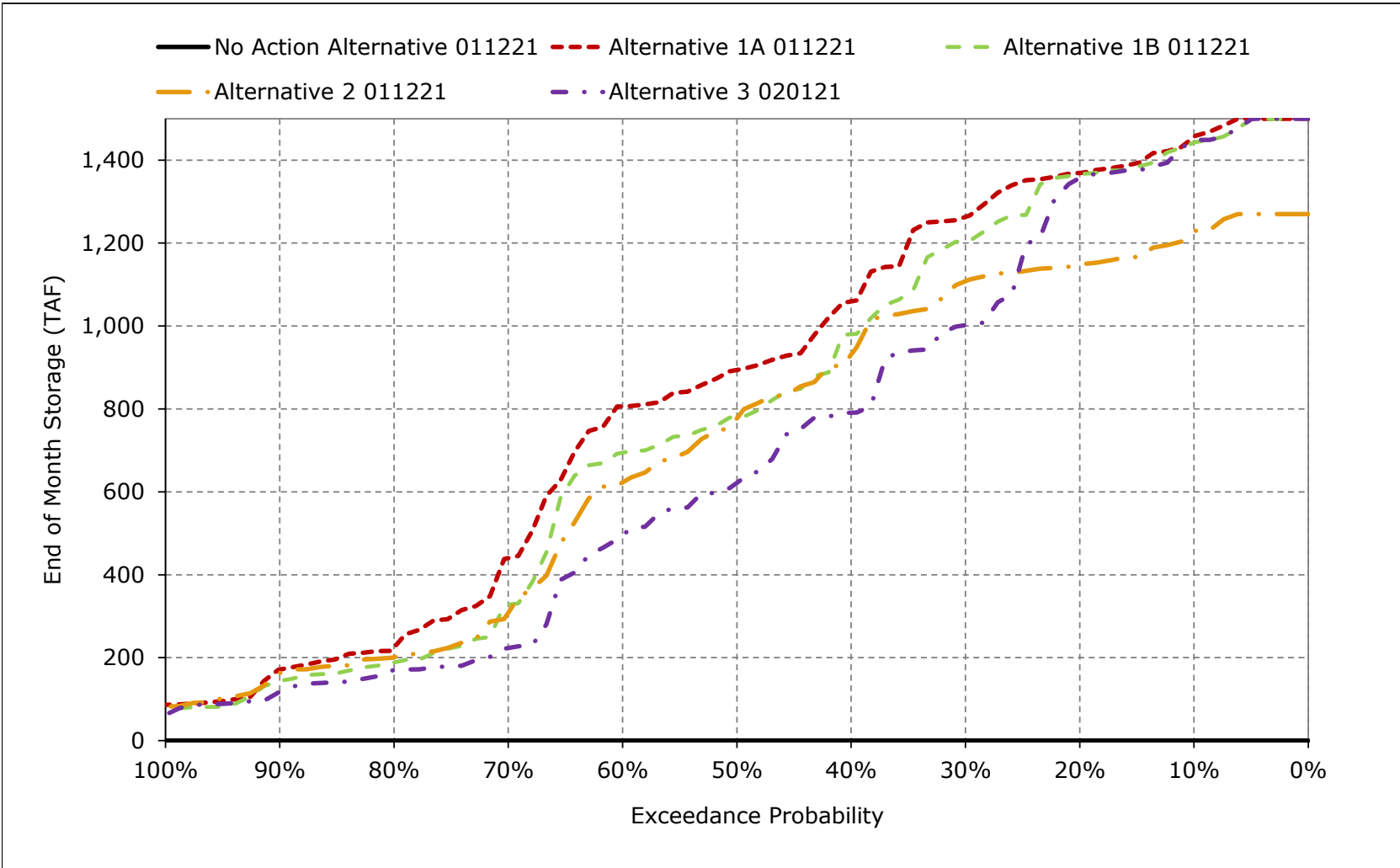
b As defined by the Sacramento Valley 40-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

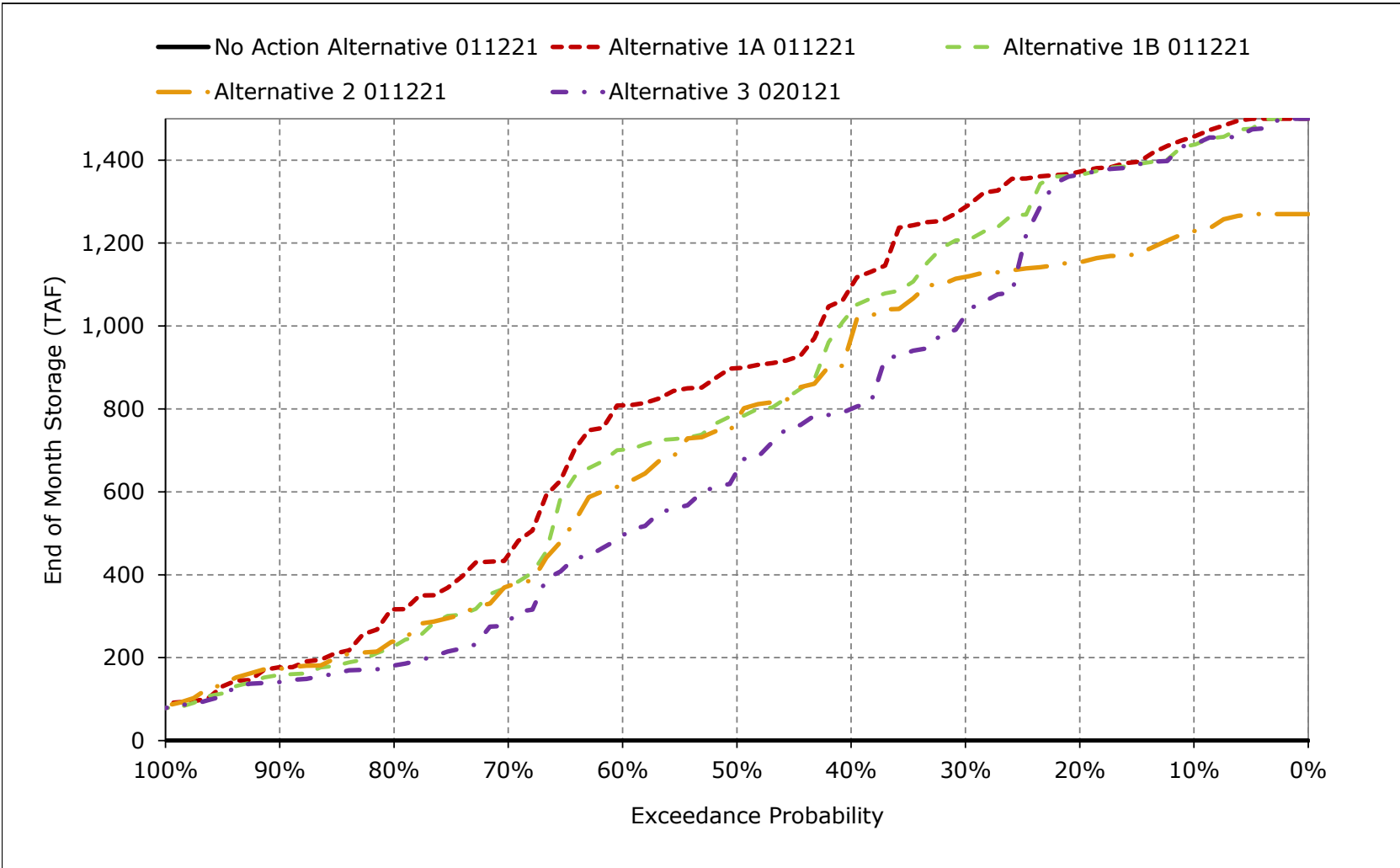
**Figure 5B1-7-1. Sites Reservoir Storage, October**



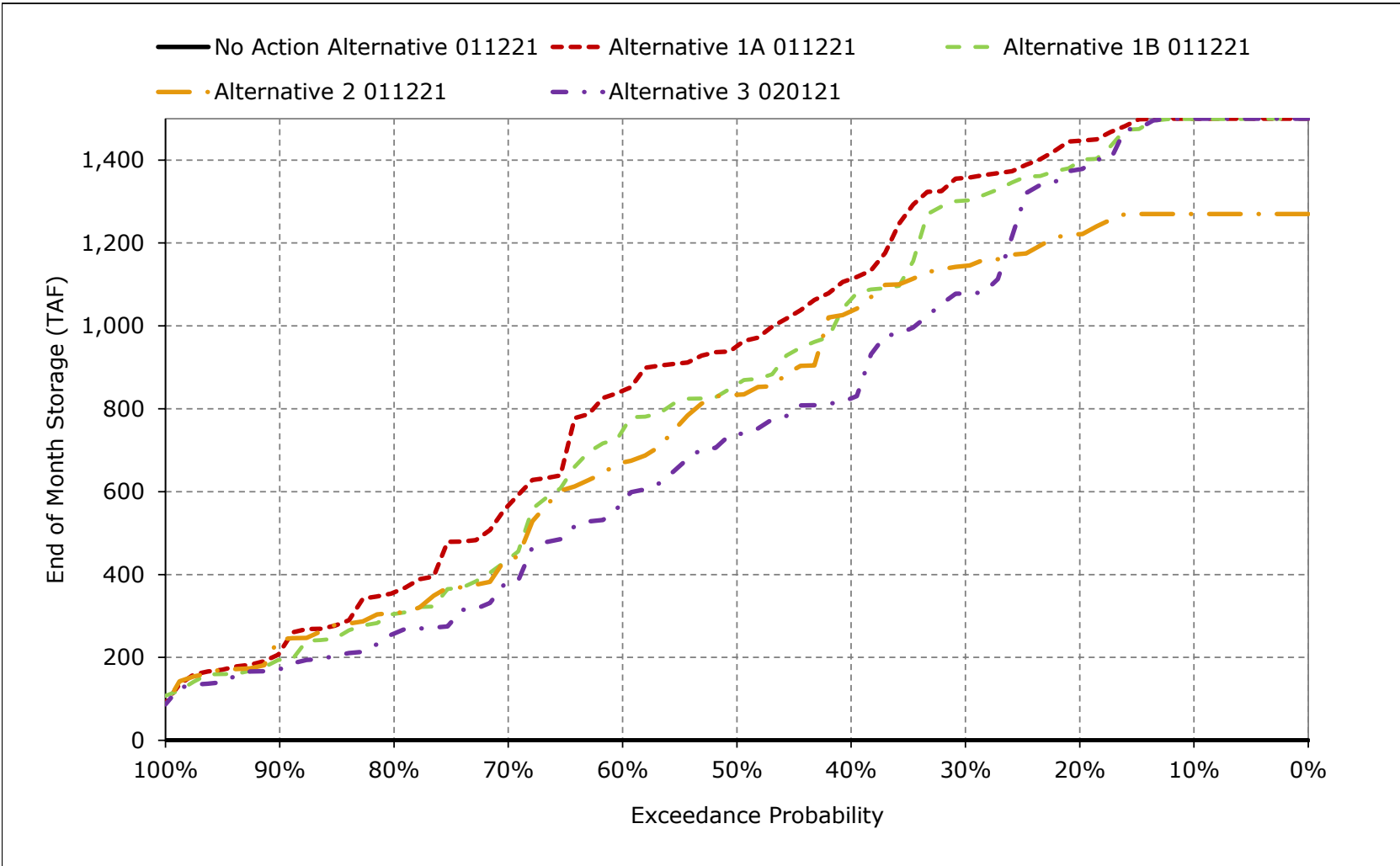
**Figure 5B1-7-2. Sites Reservoir Storage, November**



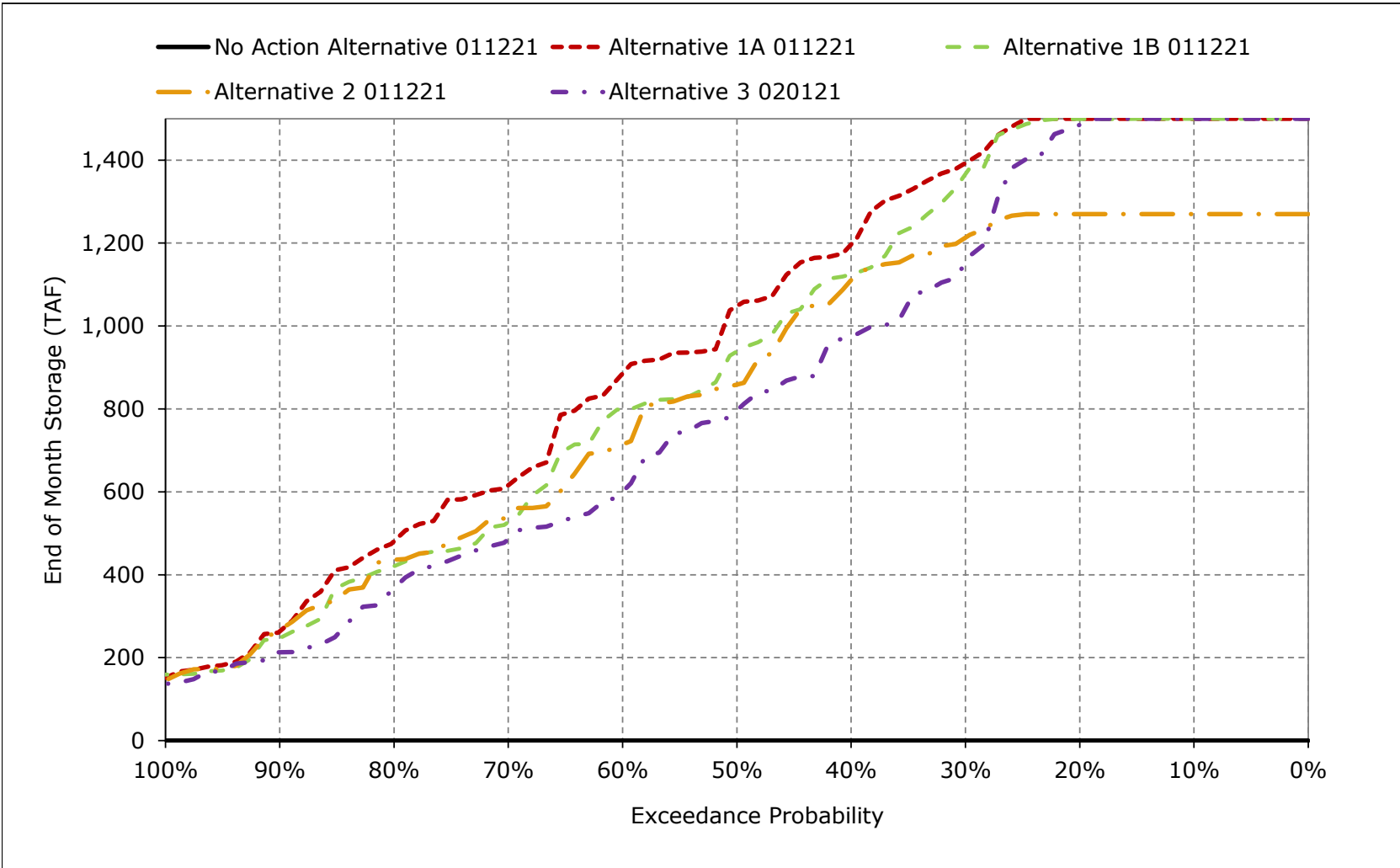
**Figure 5B1-7-3. Sites Reservoir Storage, December**



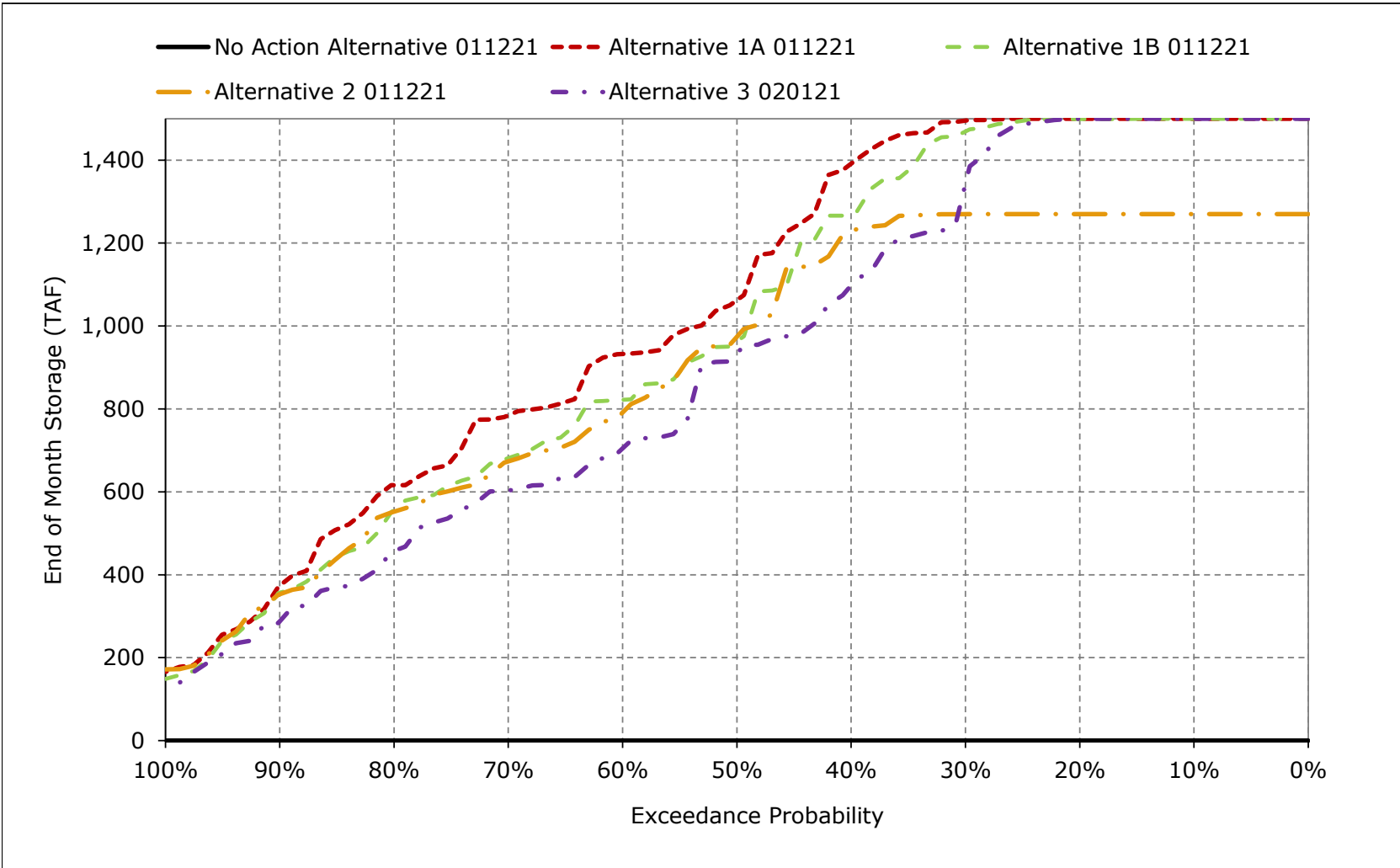
**Figure 5B1-7-4. Sites Reservoir Storage, January**



**Figure 5B1-7-5. Sites Reservoir Storage, February**

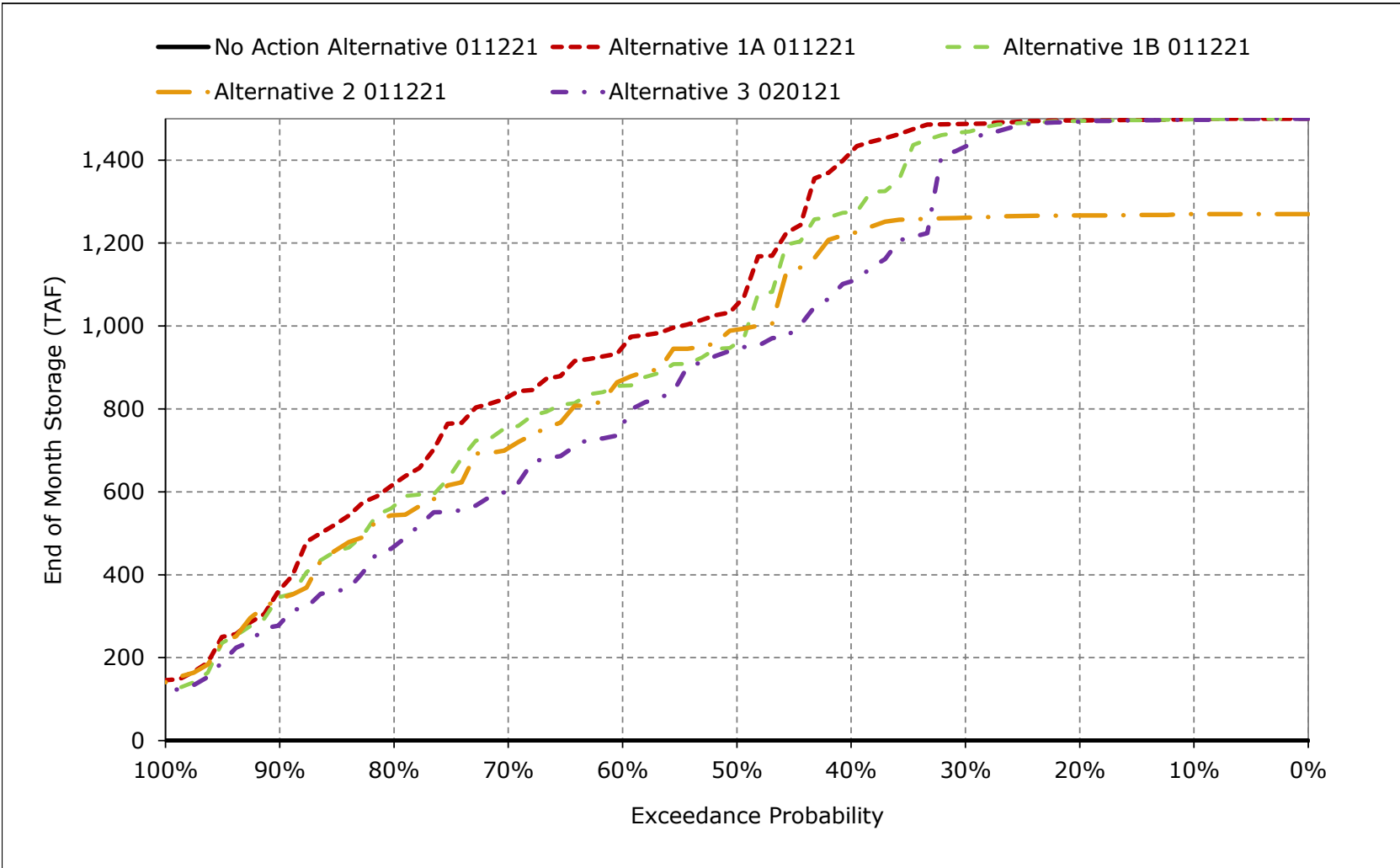


**Figure 5B1-7-6. Sites Reservoir Storage, March**

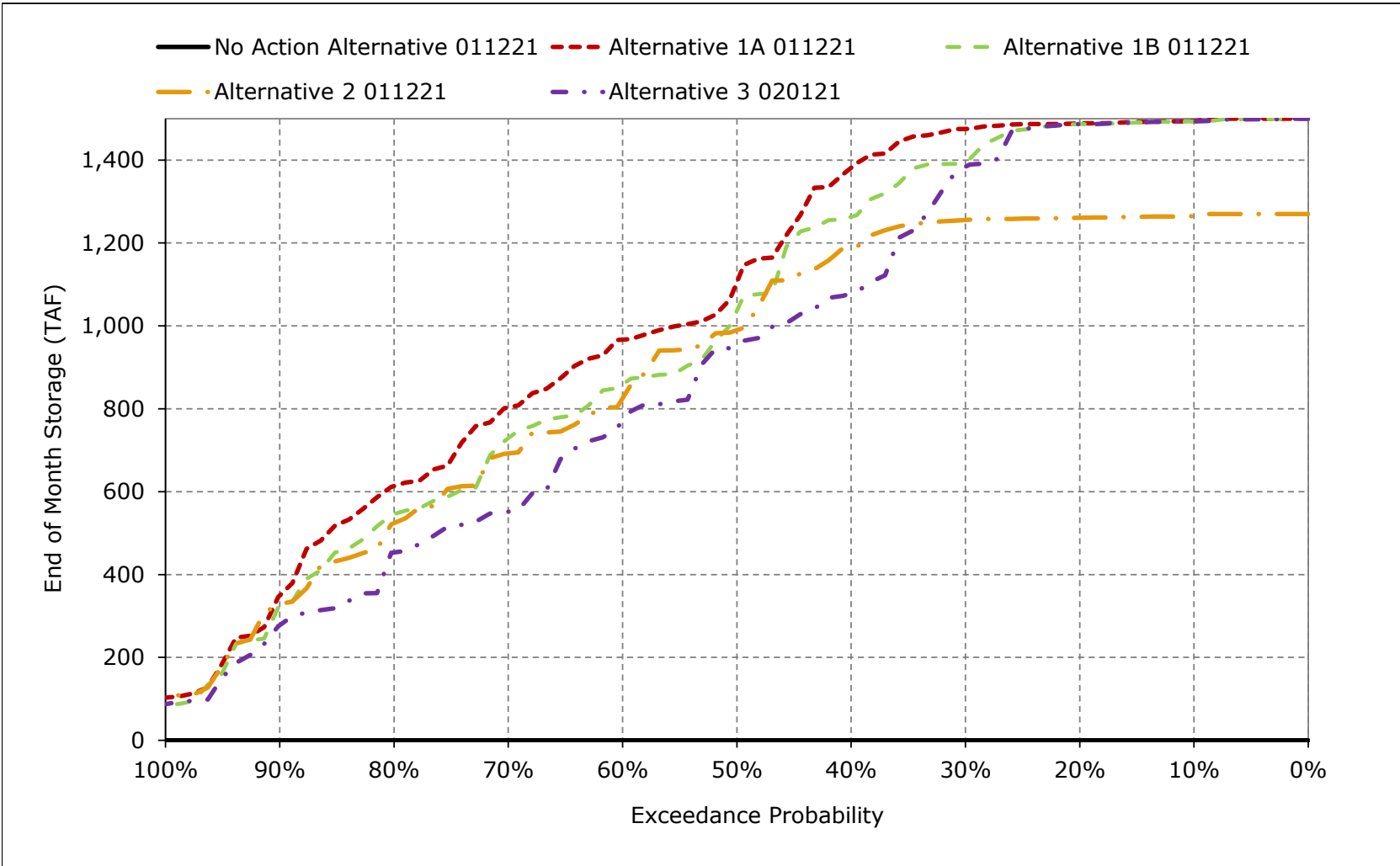




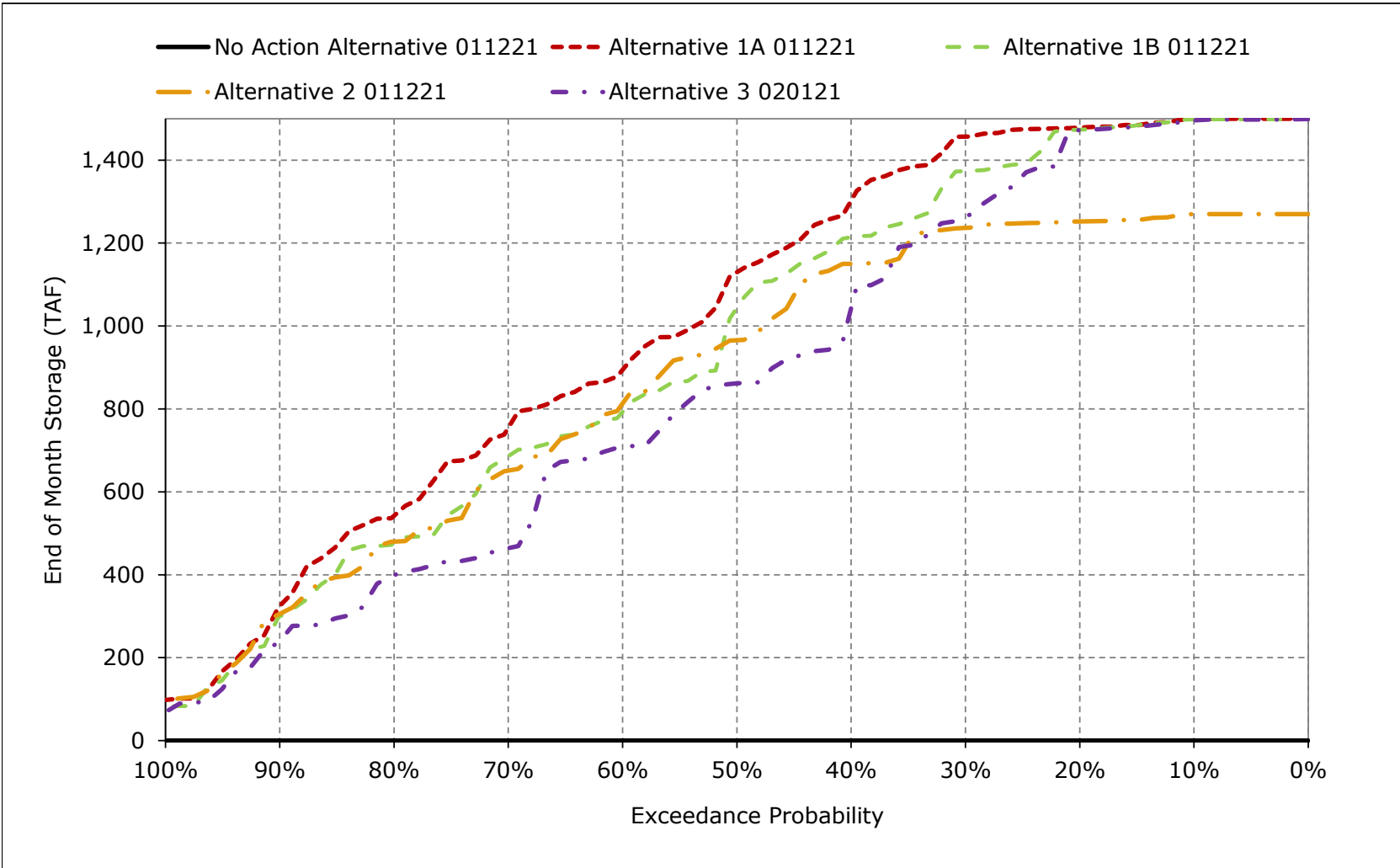
**Figure 5B1-7-7. Sites Reservoir Storage, April**



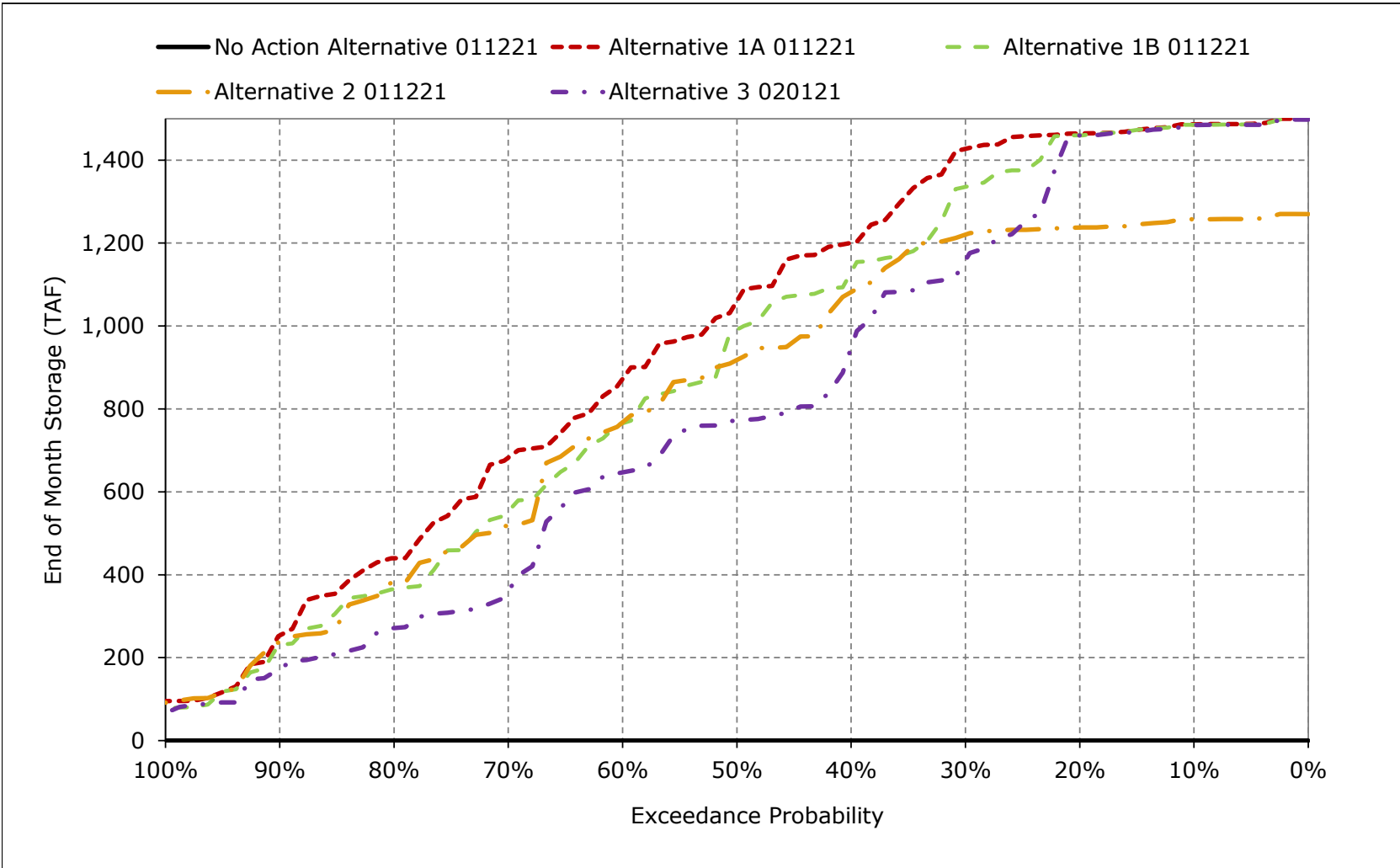
**Figure 5B1-7-8. Sites Reservoir Storage, May**



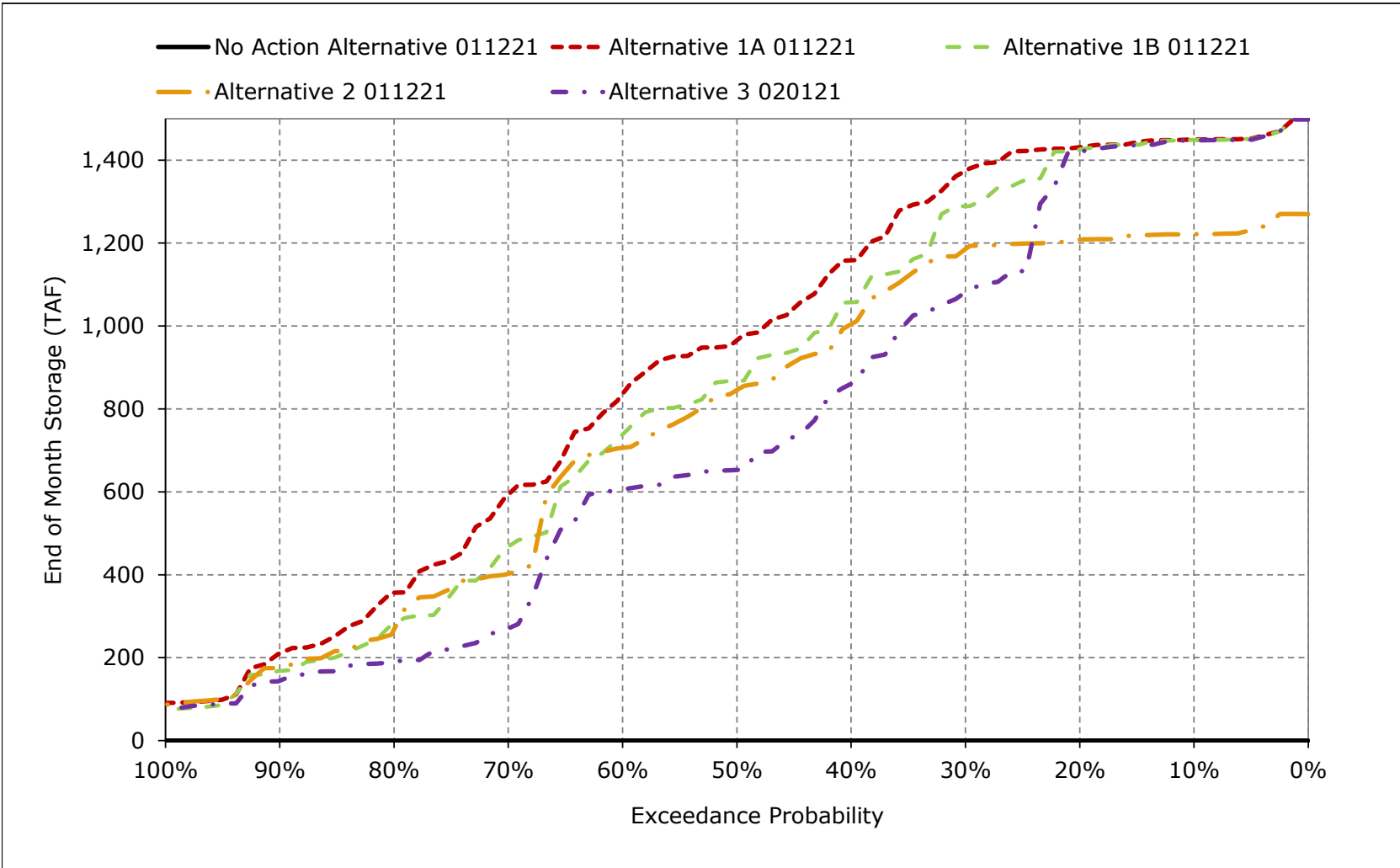
**Figure 5B1-7-9. Sites Reservoir Storage, June**



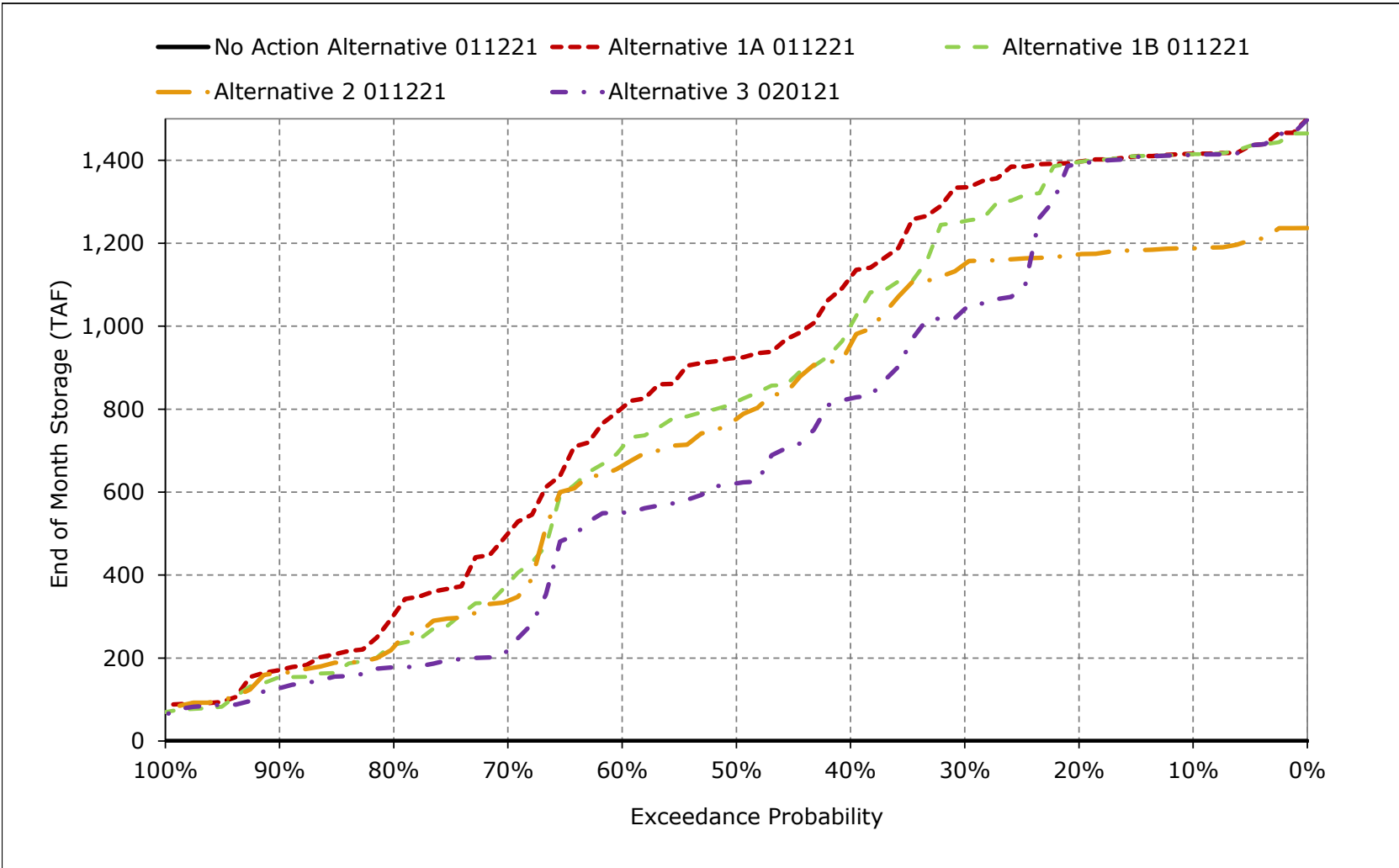
**Figure 5B1-7-10. Sites Reservoir Storage, July**



**Figure 5B1-7-11. Sites Reservoir Storage, August**



**Figure 5B1-7-12. Sites Reservoir Storage, September**



**Table 5B1-8-1a. Sites Reservoir Elevation, No Action Alternative 011221, End of Month Elevation (Feet)**

| Statistic                             | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <b>Probability of Exceedance</b>      |     |     |     |     |     |     |     |     |     |     |     |     |
| 10%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 20%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 30%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 40%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 50%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 60%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 70%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 80%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 90%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| <b>Long Term</b>                      |     |     |     |     |     |     |     |     |     |     |     |     |
| Full Simulation Period <sup>a</sup>   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |     |     |     |     |     |     |     |     |     |     |
| Wet (32%)                             | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Above Normal (15%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Below Normal (17%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Dry (22%)                             | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Critical (15%)                        | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |

**Table 5B1-8-1b. Sites Reservoir Elevation, Alternative 1A 011221, End of Month Elevation (Feet)**

| Statistic                             | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <b>Probability of Exceedance</b>      |     |     |     |     |     |     |     |     |     |     |     |     |
| 10%                                   | 489 | 494 | 494 | 497 | 497 | 497 | 497 | 497 | 497 | 496 | 493 | 491 |
| 20%                                   | 487 | 487 | 487 | 493 | 497 | 497 | 497 | 496 | 496 | 495 | 492 | 489 |
| 30%                                   | 481 | 479 | 481 | 486 | 489 | 497 | 496 | 495 | 494 | 492 | 488 | 485 |
| 40%                                   | 462 | 462 | 465 | 466 | 473 | 489 | 491 | 488 | 482 | 474 | 470 | 467 |
| 50%                                   | 447 | 446 | 447 | 452 | 461 | 462 | 461 | 465 | 468 | 462 | 453 | 449 |
| 60%                                   | 435 | 438 | 438 | 442 | 446 | 450 | 452 | 453 | 447 | 444 | 441 | 438 |
| 70%                                   | 400 | 397 | 398 | 412 | 418 | 436 | 440 | 438 | 433 | 425 | 416 | 404 |
| 80%                                   | 373 | 364 | 379 | 385 | 402 | 418 | 419 | 418 | 409 | 397 | 385 | 377 |
| 90%                                   | 351 | 353 | 354 | 362 | 370 | 387 | 386 | 384 | 381 | 369 | 362 | 353 |
| <b>Long Term</b>                      |     |     |     |     |     |     |     |     |     |     |     |     |
| Full Simulation Period <sup>a</sup>   | 434 | 433 | 435 | 442 | 448 | 455 | 456 | 455 | 452 | 446 | 440 | 436 |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |     |     |     |     |     |     |     |     |     |     |
| Wet (32%)                             | 482 | 483 | 483 | 467 | 476 | 482 | 487 | 488 | 488 | 487 | 485 | 482 |
| Above Normal (15%)                    | 461 | 461 | 462 | 445 | 453 | 466 | 467 | 467 | 467 | 466 | 463 | 460 |
| Below Normal (17%)                    | 426 | 424 | 428 | 429 | 437 | 446 | 447 | 446 | 445 | 439 | 433 | 429 |
| Dry (22%)                             | 402 | 399 | 402 | 439 | 443 | 450 | 448 | 446 | 438 | 426 | 415 | 407 |
| Critical (15%)                        | 357 | 356 | 362 | 401 | 402 | 406 | 403 | 394 | 387 | 377 | 367 | 361 |

**Table 5B1-8-1c. Sites Reservoir Elevation, Alternative 1A 011221 minus No Action Alternative 011221, End of Month Elevation (Feet)**

| Statistic                             | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <b>Probability of Exceedance</b>      |     |     |     |     |     |     |     |     |     |     |     |     |
| 10%                                   | 489 | 494 | 494 | 497 | 497 | 497 | 497 | 497 | 497 | 496 | 493 | 491 |
| 20%                                   | 487 | 487 | 487 | 493 | 497 | 497 | 497 | 496 | 496 | 495 | 492 | 489 |
| 30%                                   | 481 | 479 | 481 | 486 | 489 | 497 | 496 | 495 | 494 | 492 | 488 | 485 |
| 40%                                   | 462 | 462 | 465 | 466 | 473 | 489 | 491 | 488 | 482 | 474 | 470 | 467 |
| 50%                                   | 447 | 446 | 447 | 452 | 461 | 462 | 461 | 465 | 468 | 462 | 453 | 449 |
| 60%                                   | 435 | 438 | 438 | 442 | 446 | 450 | 452 | 453 | 447 | 444 | 441 | 438 |
| 70%                                   | 400 | 397 | 398 | 412 | 418 | 436 | 440 | 438 | 433 | 425 | 416 | 404 |
| 80%                                   | 373 | 364 | 379 | 385 | 402 | 418 | 419 | 418 | 409 | 397 | 385 | 377 |
| 90%                                   | 351 | 353 | 354 | 362 | 370 | 387 | 386 | 384 | 381 | 369 | 362 | 353 |
| <b>Long Term</b>                      |     |     |     |     |     |     |     |     |     |     |     |     |
| Full Simulation Period <sup>a</sup>   | 434 | 433 | 435 | 442 | 448 | 455 | 456 | 455 | 452 | 446 | 440 | 436 |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |     |     |     |     |     |     |     |     |     |     |
| Wet (32%)                             | 482 | 483 | 483 | 467 | 476 | 482 | 487 | 488 | 488 | 487 | 485 | 482 |
| Above Normal (15%)                    | 461 | 461 | 462 | 445 | 453 | 466 | 467 | 467 | 467 | 466 | 463 | 460 |
| Below Normal (17%)                    | 426 | 424 | 428 | 429 | 437 | 446 | 447 | 446 | 445 | 439 | 433 | 429 |
| Dry (22%)                             | 402 | 399 | 402 | 439 | 443 | 450 | 448 | 446 | 438 | 426 | 415 | 407 |
| Critical (15%)                        | 357 | 356 | 362 | 401 | 402 | 406 | 403 | 394 | 387 | 377 | 367 | 361 |

a Based on the 82-year simulation period.

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

c These results are displayed with calendar year - year type sorting.

**Table 5B1-8-2a. Sites Reservoir Elevation, No Action Alternative 011221, End of Month Elevation (Feet)**

| Statistic                             | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <b>Probability of Exceedance</b>      |     |     |     |     |     |     |     |     |     |     |     |     |
| 10%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 20%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 30%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 40%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 50%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 60%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 70%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 80%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 90%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| <b>Long Term</b>                      |     |     |     |     |     |     |     |     |     |     |     |     |
| Full Simulation Period <sup>a</sup>   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |     |     |     |     |     |     |     |     |     |     |
| Wet (32%)                             | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Above Normal (15%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Below Normal (17%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Dry (22%)                             | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Critical (15%)                        | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |

**Table 5B1-8-2b. Sites Reservoir Elevation, Alternative 1B 011221, End of Month Elevation (Feet)**

| Statistic                             | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <b>Probability of Exceedance</b>      |     |     |     |     |     |     |     |     |     |     |     |     |
| 10%                                   | 489 | 493 | 492 | 497 | 497 | 497 | 497 | 497 | 497 | 496 | 493 | 491 |
| 20%                                   | 487 | 487 | 487 | 489 | 497 | 497 | 497 | 496 | 495 | 494 | 492 | 489 |
| 30%                                   | 474 | 474 | 474 | 482 | 487 | 495 | 495 | 490 | 488 | 485 | 481 | 478 |
| 40%                                   | 456 | 454 | 459 | 462 | 467 | 480 | 480 | 479 | 475 | 468 | 461 | 456 |
| 50%                                   | 436 | 435 | 436 | 443 | 451 | 453 | 452 | 460 | 460 | 455 | 444 | 439 |
| 60%                                   | 428 | 427 | 427 | 432 | 437 | 440 | 443 | 443 | 437 | 434 | 431 | 428 |
| 70%                                   | 385 | 381 | 387 | 396 | 408 | 425 | 433 | 430 | 426 | 411 | 401 | 388 |
| 80%                                   | 362 | 357 | 364 | 377 | 394 | 411 | 412 | 410 | 402 | 386 | 374 | 365 |
| 90%                                   | 347 | 347 | 350 | 358 | 368 | 385 | 384 | 380 | 376 | 365 | 353 | 349 |
| <b>Long Term</b>                      |     |     |     |     |     |     |     |     |     |     |     |     |
| Full Simulation Period <sup>a</sup>   | 427 | 426 | 429 | 436 | 443 | 450 | 451 | 449 | 446 | 440 | 433 | 429 |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |     |     |     |     |     |     |     |     |     |     |
| Wet (32%)                             | 480 | 481 | 481 | 463 | 472 | 479 | 485 | 486 | 486 | 485 | 483 | 481 |
| Above Normal (15%)                    | 453 | 454 | 455 | 439 | 449 | 461 | 463 | 463 | 460 | 456 | 453 | 451 |
| Below Normal (17%)                    | 415 | 413 | 418 | 421 | 430 | 439 | 440 | 438 | 435 | 429 | 421 | 418 |
| Dry (22%)                             | 392 | 389 | 392 | 431 | 436 | 443 | 440 | 437 | 429 | 416 | 405 | 397 |
| Critical (15%)                        | 351 | 350 | 357 | 397 | 398 | 402 | 398 | 388 | 382 | 371 | 361 | 355 |

**Table 5B1-8-2c. Sites Reservoir Elevation, Alternative 1B 011221 minus No Action Alternative 011221, End of Month Elevation (Feet)**

| Statistic                             | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <b>Probability of Exceedance</b>      |     |     |     |     |     |     |     |     |     |     |     |     |
| 10%                                   | 489 | 493 | 492 | 497 | 497 | 497 | 497 | 497 | 497 | 496 | 493 | 491 |
| 20%                                   | 487 | 487 | 487 | 489 | 497 | 497 | 497 | 496 | 495 | 494 | 492 | 489 |
| 30%                                   | 474 | 474 | 474 | 482 | 487 | 495 | 495 | 490 | 488 | 485 | 481 | 478 |
| 40%                                   | 456 | 454 | 459 | 462 | 467 | 480 | 480 | 479 | 475 | 468 | 461 | 456 |
| 50%                                   | 436 | 435 | 436 | 443 | 451 | 453 | 452 | 460 | 460 | 455 | 444 | 439 |
| 60%                                   | 428 | 427 | 427 | 432 | 437 | 440 | 443 | 443 | 437 | 434 | 431 | 428 |
| 70%                                   | 385 | 381 | 387 | 396 | 408 | 425 | 433 | 430 | 426 | 411 | 401 | 388 |
| 80%                                   | 362 | 357 | 364 | 377 | 394 | 411 | 412 | 410 | 402 | 386 | 374 | 365 |
| 90%                                   | 347 | 347 | 350 | 358 | 368 | 385 | 384 | 380 | 376 | 365 | 353 | 349 |
| <b>Long Term</b>                      |     |     |     |     |     |     |     |     |     |     |     |     |
| Full Simulation Period <sup>a</sup>   | 427 | 426 | 429 | 436 | 443 | 450 | 451 | 449 | 446 | 440 | 433 | 429 |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |     |     |     |     |     |     |     |     |     |     |
| Wet (32%)                             | 480 | 481 | 481 | 463 | 472 | 479 | 485 | 486 | 486 | 485 | 483 | 481 |
| Above Normal (15%)                    | 453 | 454 | 455 | 439 | 449 | 461 | 463 | 463 | 460 | 456 | 453 | 451 |
| Below Normal (17%)                    | 415 | 413 | 418 | 421 | 430 | 439 | 440 | 438 | 435 | 429 | 421 | 418 |
| Dry (22%)                             | 392 | 389 | 392 | 431 | 436 | 443 | 440 | 437 | 429 | 416 | 405 | 397 |
| Critical (15%)                        | 351 | 350 | 357 | 397 | 398 | 402 | 398 | 388 | 382 | 371 | 361 | 355 |

a Based on the 82-year simulation period.

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

c These results are displayed with calendar year - year type sorting.



**Table 5B1-8-3a. Sites Reservoir Elevation, No Action Alternative 011221, End of Month Elevation (Feet)**

| Statistic                             | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <b>Probability of Exceedance</b>      |     |     |     |     |     |     |     |     |     |     |     |     |
| 10%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 20%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 30%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 40%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 50%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 60%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 70%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 80%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 90%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| <b>Long Term</b>                      |     |     |     |     |     |     |     |     |     |     |     |     |
| Full Simulation Period <sup>a</sup>   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |     |     |     |     |     |     |     |     |     |     |
| Wet (32%)                             | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Above Normal (15%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Below Normal (17%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Dry (22%)                             | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Critical (15%)                        | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |

**Table 5B1-8-3b. Sites Reservoir Elevation, Alternative 2 011221, End of Month Elevation (Feet)**

| Statistic                             | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <b>Probability of Exceedance</b>      |     |     |     |     |     |     |     |     |     |     |     |     |
| 10%                                   | 470 | 476 | 476 | 479 | 479 | 479 | 479 | 479 | 479 | 478 | 475 | 472 |
| 20%                                   | 469 | 469 | 470 | 475 | 479 | 479 | 479 | 479 | 478 | 477 | 474 | 471 |
| 30%                                   | 466 | 466 | 467 | 469 | 475 | 479 | 479 | 478 | 477 | 475 | 472 | 469 |
| 40%                                   | 451 | 450 | 454 | 460 | 466 | 476 | 475 | 473 | 469 | 464 | 457 | 452 |
| 50%                                   | 433 | 435 | 435 | 441 | 443 | 454 | 455 | 455 | 453 | 449 | 442 | 435 |
| 60%                                   | 422 | 419 | 418 | 424 | 429 | 437 | 444 | 440 | 439 | 434 | 428 | 423 |
| 70%                                   | 380 | 378 | 387 | 396 | 410 | 424 | 428 | 426 | 422 | 407 | 392 | 382 |
| 80%                                   | 360 | 360 | 366 | 378 | 396 | 411 | 410 | 407 | 402 | 389 | 371 | 364 |
| 90%                                   | 350 | 351 | 354 | 367 | 371 | 385 | 383 | 381 | 377 | 366 | 354 | 352 |
| <b>Long Term</b>                      |     |     |     |     |     |     |     |     |     |     |     |     |
| Full Simulation Period <sup>a</sup>   | 421 | 421 | 423 | 430 | 436 | 443 | 444 | 442 | 440 | 434 | 428 | 423 |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |     |     |     |     |     |     |     |     |     |     |
| Wet (32%)                             | 465 | 467 | 467 | 454 | 462 | 467 | 472 | 472 | 472 | 472 | 469 | 466 |
| Above Normal (15%)                    | 452 | 453 | 453 | 435 | 444 | 456 | 458 | 458 | 458 | 457 | 453 | 451 |
| Below Normal (17%)                    | 413 | 411 | 415 | 417 | 425 | 434 | 435 | 434 | 433 | 428 | 421 | 416 |
| Dry (22%)                             | 387 | 385 | 389 | 425 | 430 | 437 | 435 | 433 | 425 | 412 | 400 | 392 |
| Critical (15%)                        | 352 | 351 | 358 | 394 | 396 | 400 | 396 | 387 | 381 | 370 | 361 | 355 |

**Table 5B1-8-3c. Sites Reservoir Elevation, Alternative 2 011221 minus No Action Alternative 011221, End of Month Elevation (Feet)**

| Statistic                             | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <b>Probability of Exceedance</b>      |     |     |     |     |     |     |     |     |     |     |     |     |
| 10%                                   | 470 | 476 | 476 | 479 | 479 | 479 | 479 | 479 | 479 | 478 | 475 | 472 |
| 20%                                   | 469 | 469 | 470 | 475 | 479 | 479 | 479 | 479 | 478 | 477 | 474 | 471 |
| 30%                                   | 466 | 466 | 467 | 469 | 475 | 479 | 479 | 478 | 477 | 475 | 472 | 469 |
| 40%                                   | 451 | 450 | 454 | 460 | 466 | 476 | 475 | 473 | 469 | 464 | 457 | 452 |
| 50%                                   | 433 | 435 | 435 | 441 | 443 | 454 | 455 | 455 | 453 | 449 | 442 | 435 |
| 60%                                   | 422 | 419 | 418 | 424 | 429 | 437 | 444 | 440 | 439 | 434 | 428 | 423 |
| 70%                                   | 380 | 378 | 387 | 396 | 410 | 424 | 428 | 426 | 422 | 407 | 392 | 382 |
| 80%                                   | 360 | 360 | 366 | 378 | 396 | 411 | 410 | 407 | 402 | 389 | 371 | 364 |
| 90%                                   | 350 | 351 | 354 | 367 | 371 | 385 | 383 | 381 | 377 | 366 | 354 | 352 |
| <b>Long Term</b>                      |     |     |     |     |     |     |     |     |     |     |     |     |
| Full Simulation Period <sup>a</sup>   | 421 | 421 | 423 | 430 | 436 | 443 | 444 | 442 | 440 | 434 | 428 | 423 |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |     |     |     |     |     |     |     |     |     |     |
| Wet (32%)                             | 465 | 467 | 467 | 454 | 462 | 467 | 472 | 472 | 472 | 472 | 469 | 466 |
| Above Normal (15%)                    | 452 | 453 | 453 | 435 | 444 | 456 | 458 | 458 | 458 | 457 | 453 | 451 |
| Below Normal (17%)                    | 413 | 411 | 415 | 417 | 425 | 434 | 435 | 434 | 433 | 428 | 421 | 416 |
| Dry (22%)                             | 387 | 385 | 389 | 425 | 430 | 437 | 435 | 433 | 425 | 412 | 400 | 392 |
| Critical (15%)                        | 352 | 351 | 358 | 394 | 396 | 400 | 396 | 387 | 381 | 370 | 361 | 355 |

a Based on the 82-year simulation period.

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

c These results are displayed with calendar year - year type sorting.

**Table 5B1-8-4a. Sites Reservoir Elevation, No Action Alternative 011221, End of Month Elevation (Feet)**

| Statistic                             | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <b>Probability of Exceedance</b>      |     |     |     |     |     |     |     |     |     |     |     |     |
| 10%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 20%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 30%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 40%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 50%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 60%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 70%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 80%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 90%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| <b>Long Term</b>                      |     |     |     |     |     |     |     |     |     |     |     |     |
| Full Simulation Period <sup>a</sup>   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |     |     |     |     |     |     |     |     |     |     |
| Wet (32%)                             | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Above Normal (15%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Below Normal (17%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Dry (22%)                             | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Critical (15%)                        | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |

**Table 5B1-8-4b. Sites Reservoir Elevation, Alternative 3 020121, End of Month Elevation (Feet)**

| Statistic                             | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <b>Probability of Exceedance</b>      |     |     |     |     |     |     |     |     |     |     |     |     |
| 10%                                   | 489 | 493 | 493 | 497 | 497 | 497 | 497 | 497 | 497 | 496 | 493 | 491 |
| 20%                                   | 487 | 486 | 487 | 488 | 496 | 497 | 497 | 496 | 495 | 494 | 491 | 489 |
| 30%                                   | 458 | 456 | 459 | 463 | 470 | 485 | 492 | 488 | 479 | 470 | 464 | 460 |
| 40%                                   | 439 | 437 | 438 | 440 | 454 | 465 | 466 | 463 | 460 | 451 | 443 | 440 |
| 50%                                   | 418 | 419 | 422 | 431 | 437 | 450 | 451 | 452 | 443 | 435 | 422 | 419 |
| 60%                                   | 405 | 404 | 404 | 413 | 416 | 428 | 433 | 434 | 428 | 422 | 417 | 410 |
| 70%                                   | 362 | 364 | 374 | 388 | 403 | 417 | 417 | 411 | 400 | 386 | 372 | 363 |
| 80%                                   | 353 | 353 | 356 | 369 | 387 | 399 | 401 | 399 | 391 | 372 | 358 | 355 |
| 90%                                   | 341 | 341 | 347 | 353 | 362 | 374 | 373 | 373 | 366 | 354 | 347 | 343 |
| <b>Long Term</b>                      |     |     |     |     |     |     |     |     |     |     |     |     |
| Full Simulation Period <sup>a</sup>   | 417 | 417 | 419 | 427 | 434 | 443 | 445 | 442 | 437 | 429 | 422 | 418 |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |     |     |     |     |     |     |     |     |     |     |
| Wet (32%)                             | 478 | 479 | 479 | 456 | 466 | 475 | 482 | 483 | 484 | 483 | 481 | 479 |
| Above Normal (15%)                    | 436 | 437 | 439 | 433 | 444 | 457 | 459 | 459 | 454 | 444 | 436 | 433 |
| Below Normal (17%)                    | 399 | 398 | 402 | 413 | 422 | 432 | 433 | 430 | 424 | 413 | 406 | 402 |
| Dry (22%)                             | 376 | 374 | 378 | 417 | 422 | 430 | 427 | 422 | 412 | 397 | 387 | 380 |
| Critical (15%)                        | 346 | 346 | 353 | 388 | 390 | 393 | 389 | 379 | 372 | 360 | 352 | 348 |

**Table 5B1-8-4c. Sites Reservoir Elevation, Alternative 3 020121 minus No Action Alternative 011221, End of Month Elevation (Feet)**

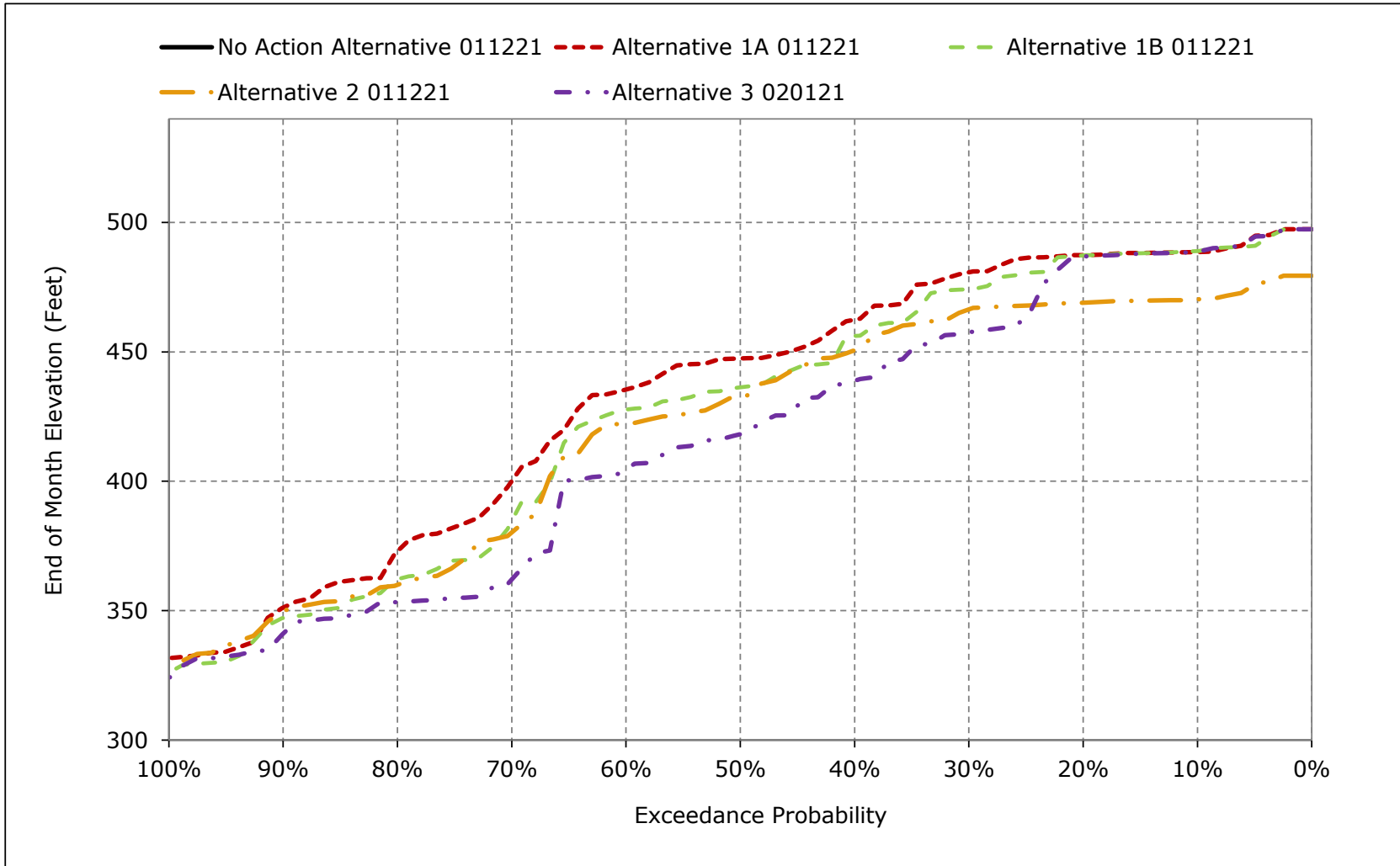
| Statistic                             | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <b>Probability of Exceedance</b>      |     |     |     |     |     |     |     |     |     |     |     |     |
| 10%                                   | 489 | 493 | 493 | 497 | 497 | 497 | 497 | 497 | 497 | 496 | 493 | 491 |
| 20%                                   | 487 | 486 | 487 | 488 | 496 | 497 | 497 | 496 | 495 | 494 | 491 | 489 |
| 30%                                   | 458 | 456 | 459 | 463 | 470 | 485 | 492 | 488 | 479 | 470 | 464 | 460 |
| 40%                                   | 439 | 437 | 438 | 440 | 454 | 465 | 466 | 463 | 460 | 451 | 443 | 440 |
| 50%                                   | 418 | 419 | 422 | 431 | 437 | 450 | 451 | 452 | 443 | 435 | 422 | 419 |
| 60%                                   | 405 | 404 | 404 | 413 | 416 | 428 | 433 | 434 | 428 | 422 | 417 | 410 |
| 70%                                   | 362 | 364 | 374 | 388 | 403 | 417 | 417 | 411 | 400 | 386 | 372 | 363 |
| 80%                                   | 353 | 353 | 356 | 369 | 387 | 399 | 401 | 399 | 391 | 372 | 358 | 355 |
| 90%                                   | 341 | 341 | 347 | 353 | 362 | 374 | 373 | 373 | 366 | 354 | 347 | 343 |
| <b>Long Term</b>                      |     |     |     |     |     |     |     |     |     |     |     |     |
| Full Simulation Period <sup>a</sup>   | 417 | 417 | 419 | 427 | 434 | 443 | 445 | 442 | 437 | 429 | 422 | 418 |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |     |     |     |     |     |     |     |     |     |     |
| Wet (32%)                             | 478 | 479 | 479 | 456 | 466 | 475 | 482 | 483 | 484 | 483 | 481 | 479 |
| Above Normal (15%)                    | 436 | 437 | 439 | 433 | 444 | 457 | 459 | 459 | 454 | 444 | 436 | 433 |
| Below Normal (17%)                    | 399 | 398 | 402 | 413 | 422 | 432 | 433 | 430 | 424 | 413 | 406 | 402 |
| Dry (22%)                             | 376 | 374 | 378 | 417 | 422 | 430 | 427 | 422 | 412 | 397 | 387 | 380 |
| Critical (15%)                        | 346 | 346 | 353 | 388 | 390 | 393 | 389 | 379 | 372 | 360 | 352 | 348 |

a Based on the 82-year simulation period.

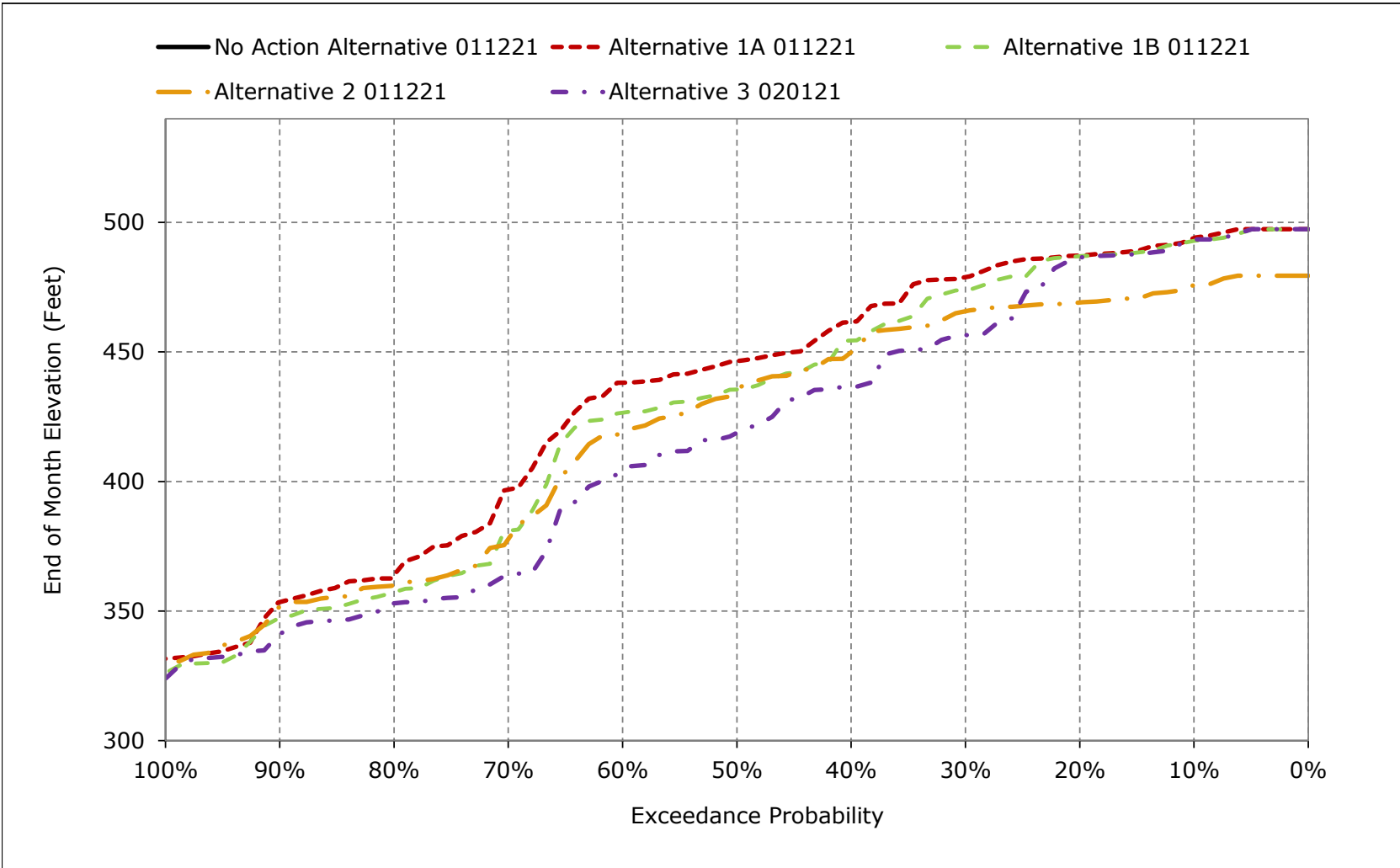
b As defined by the Sacramento Valley 40-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

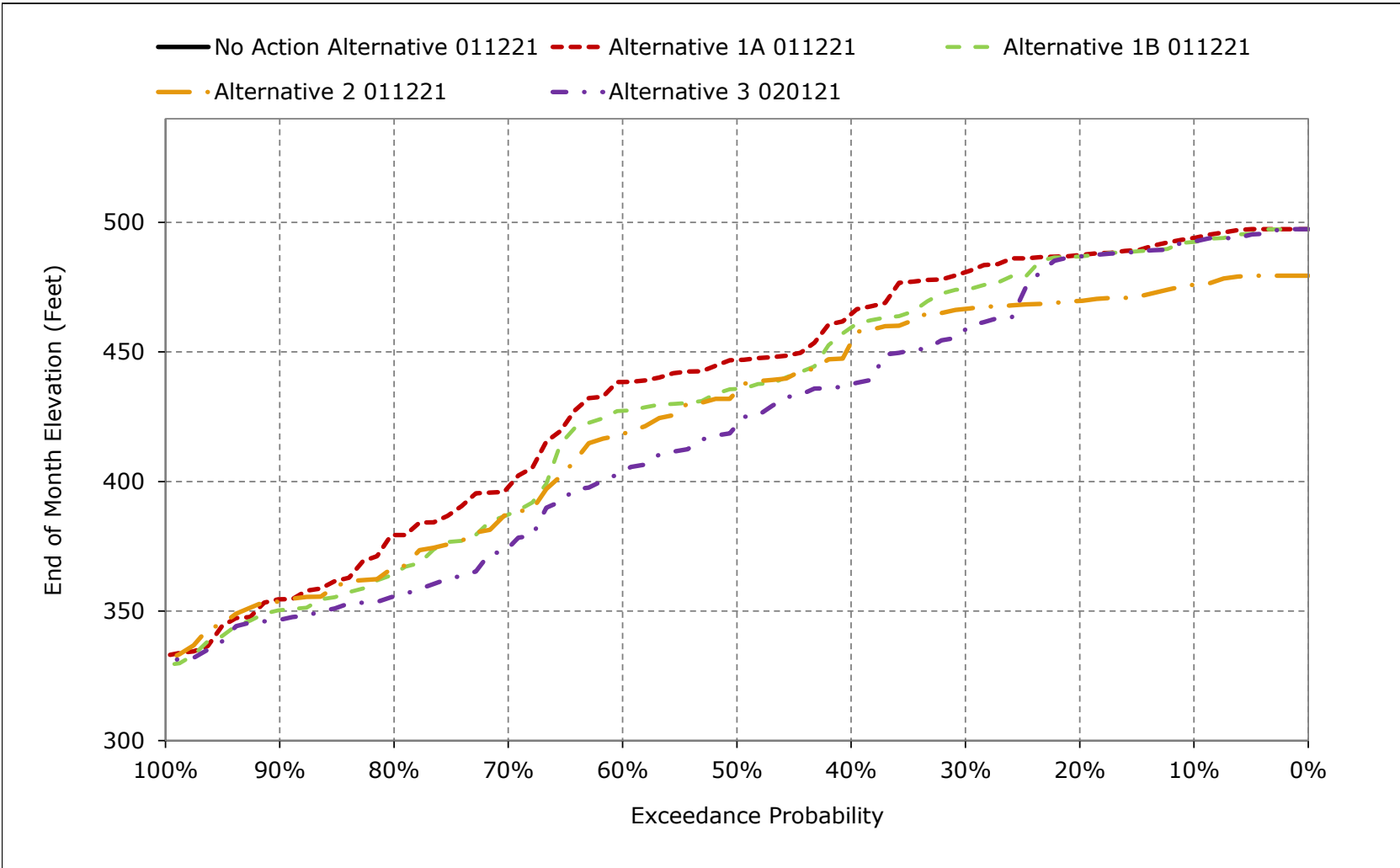
**Figure 5B1-8-1. Sites Reservoir Elevation, October**



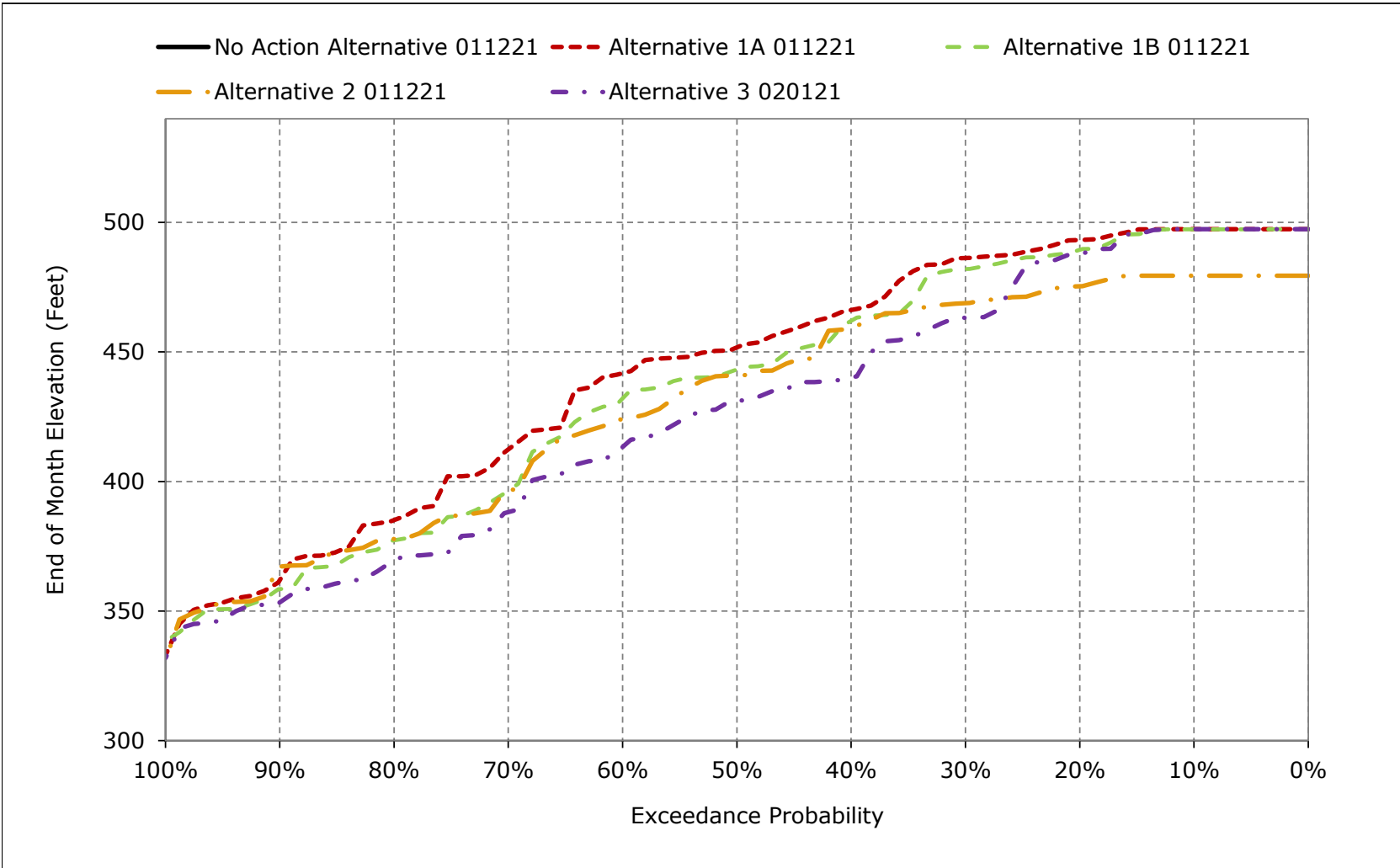
**Figure 5B1-8-2. Sites Reservoir Elevation, November**



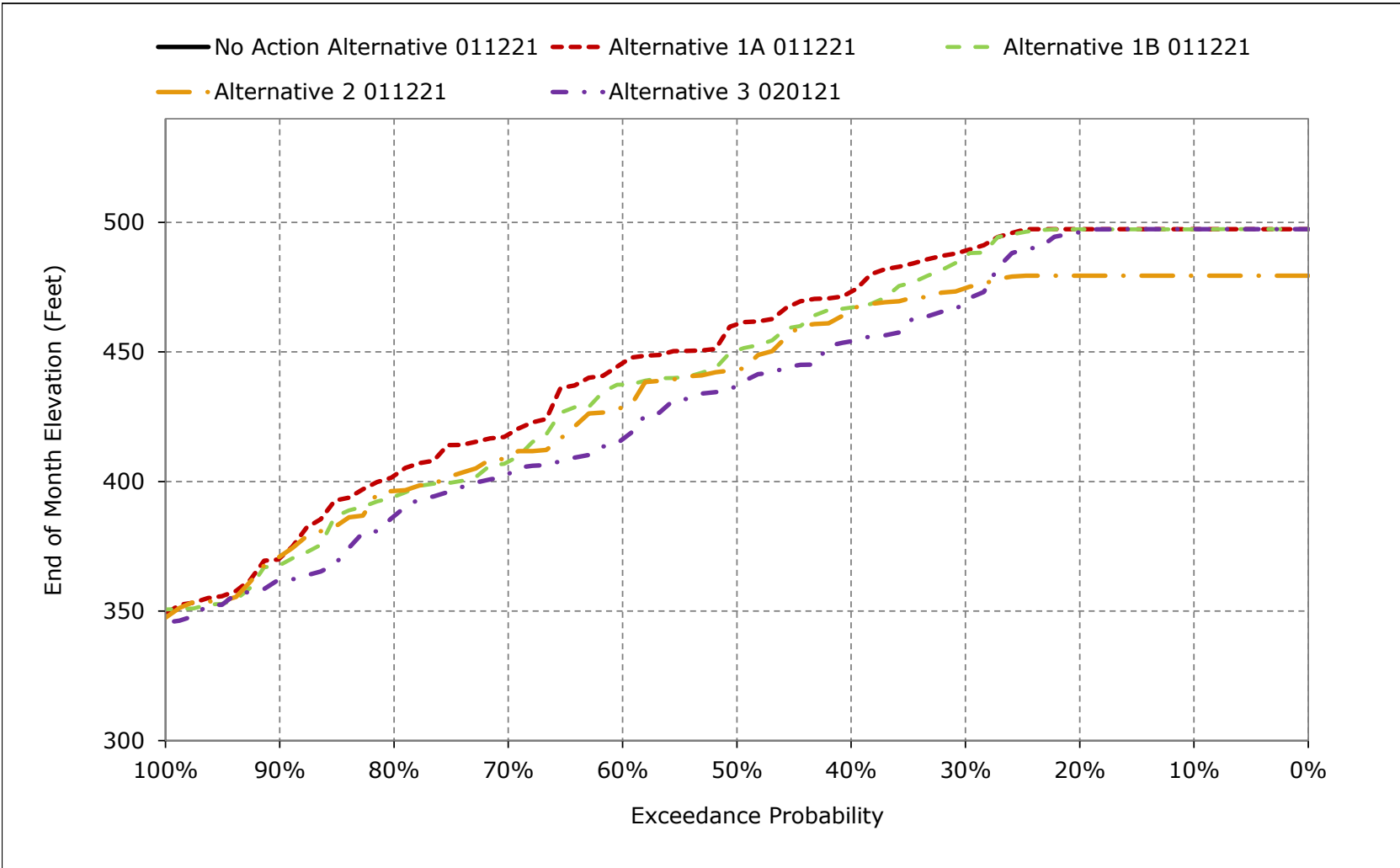
**Figure 5B1-8-3. Sites Reservoir Elevation, December**



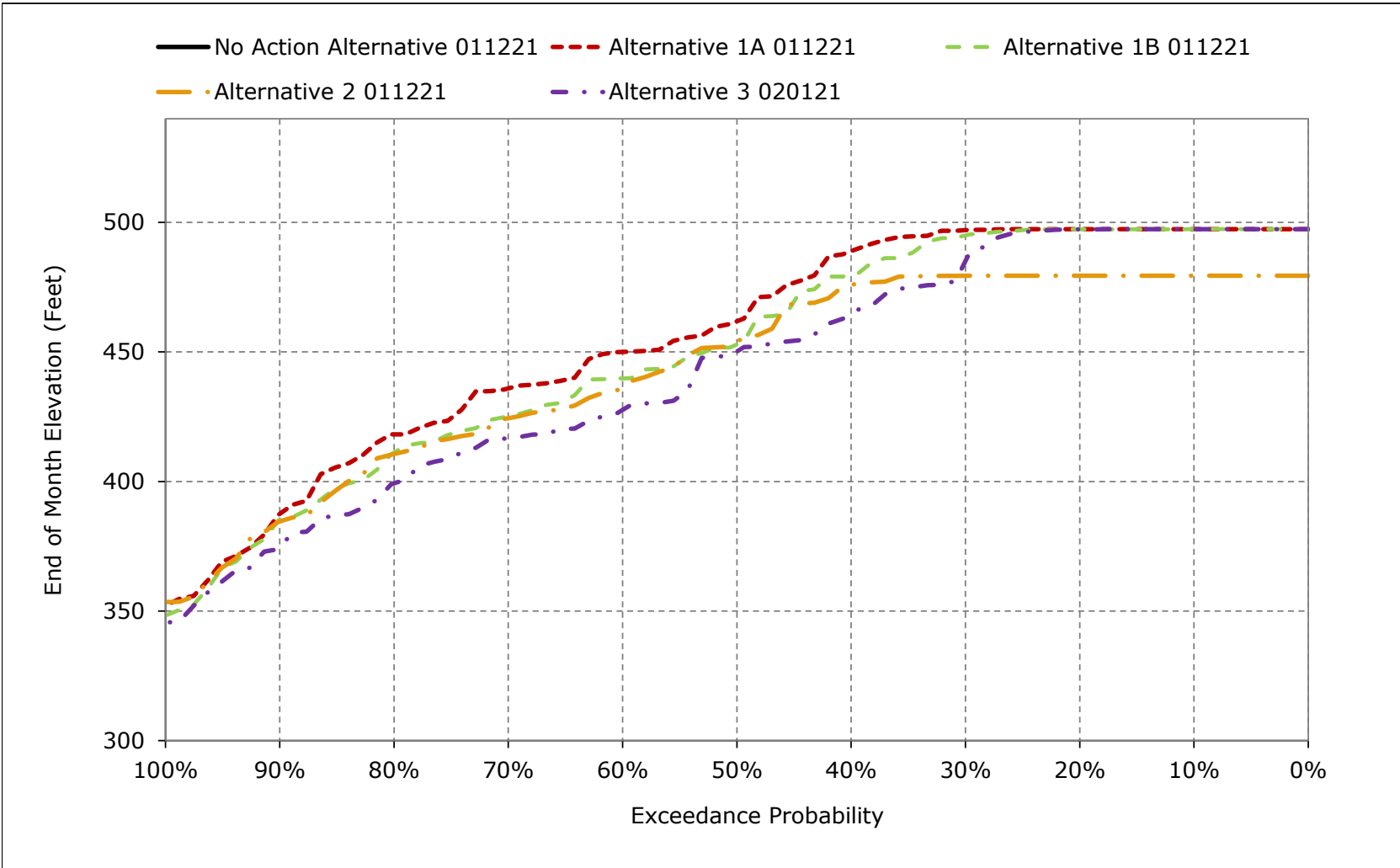
**Figure 5B1-8-4. Sites Reservoir Elevation, January**



**Figure 5B1-8-5. Sites Reservoir Elevation, February**

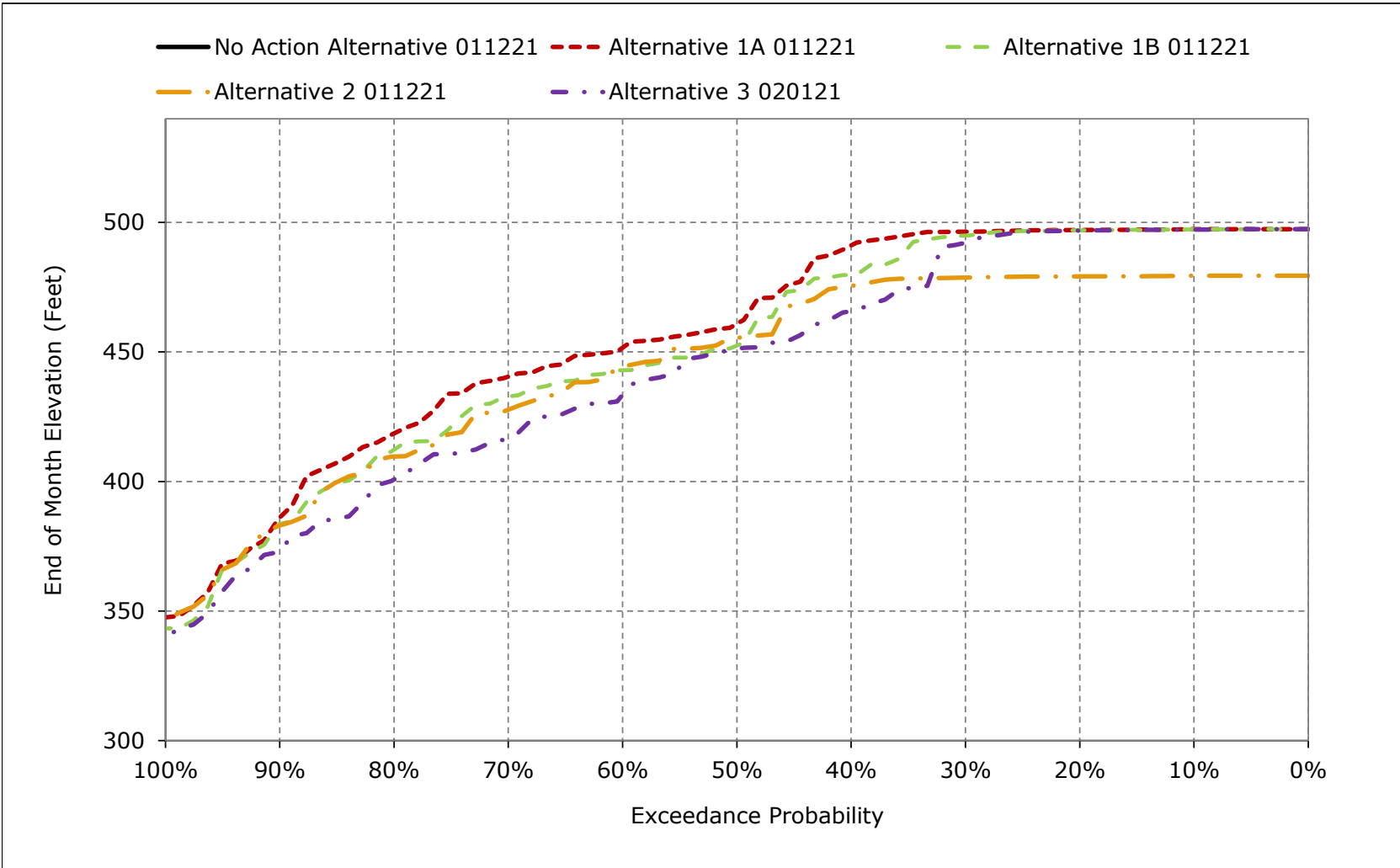


**Figure 5B1-8-6. Sites Reservoir Elevation, March**

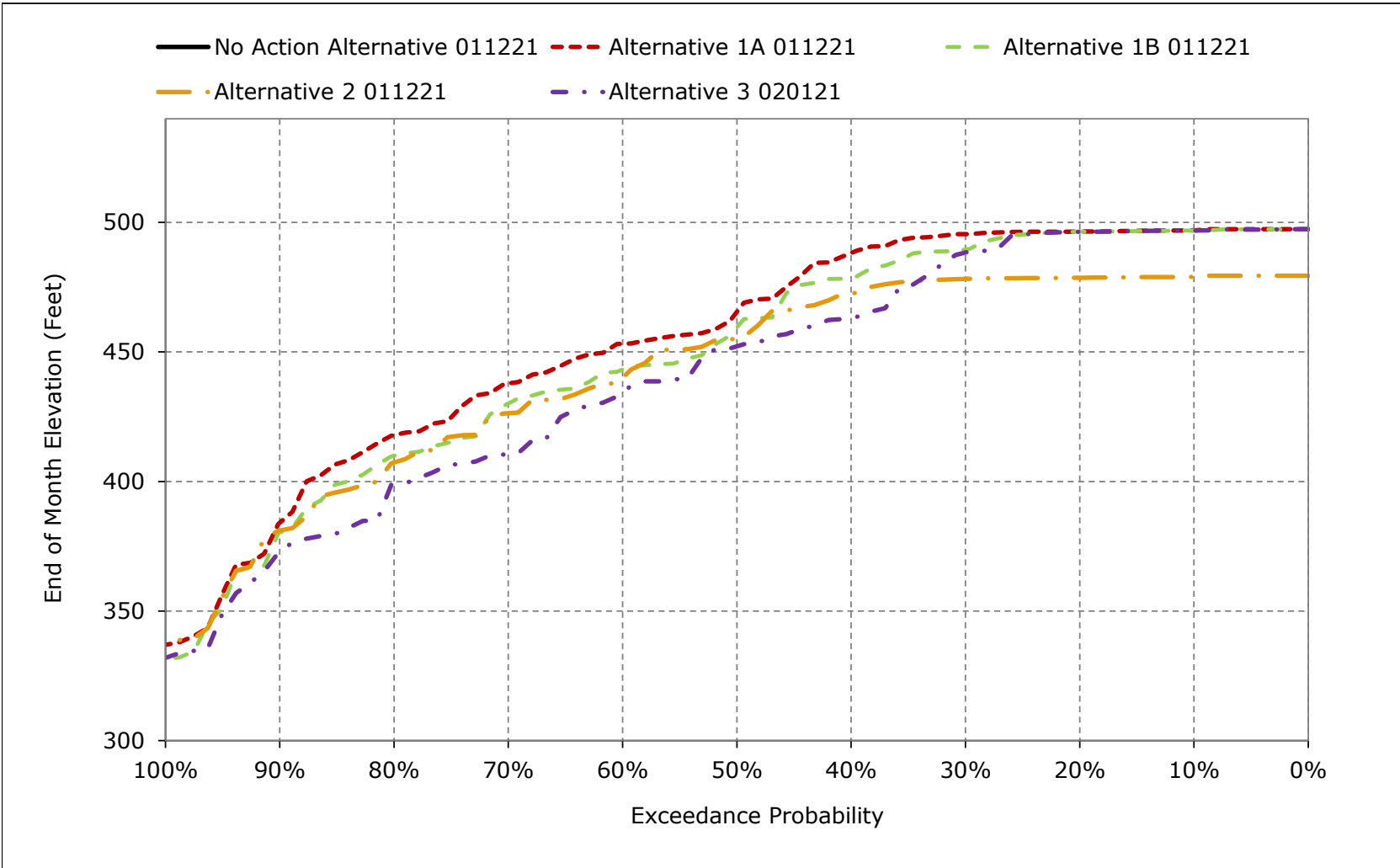




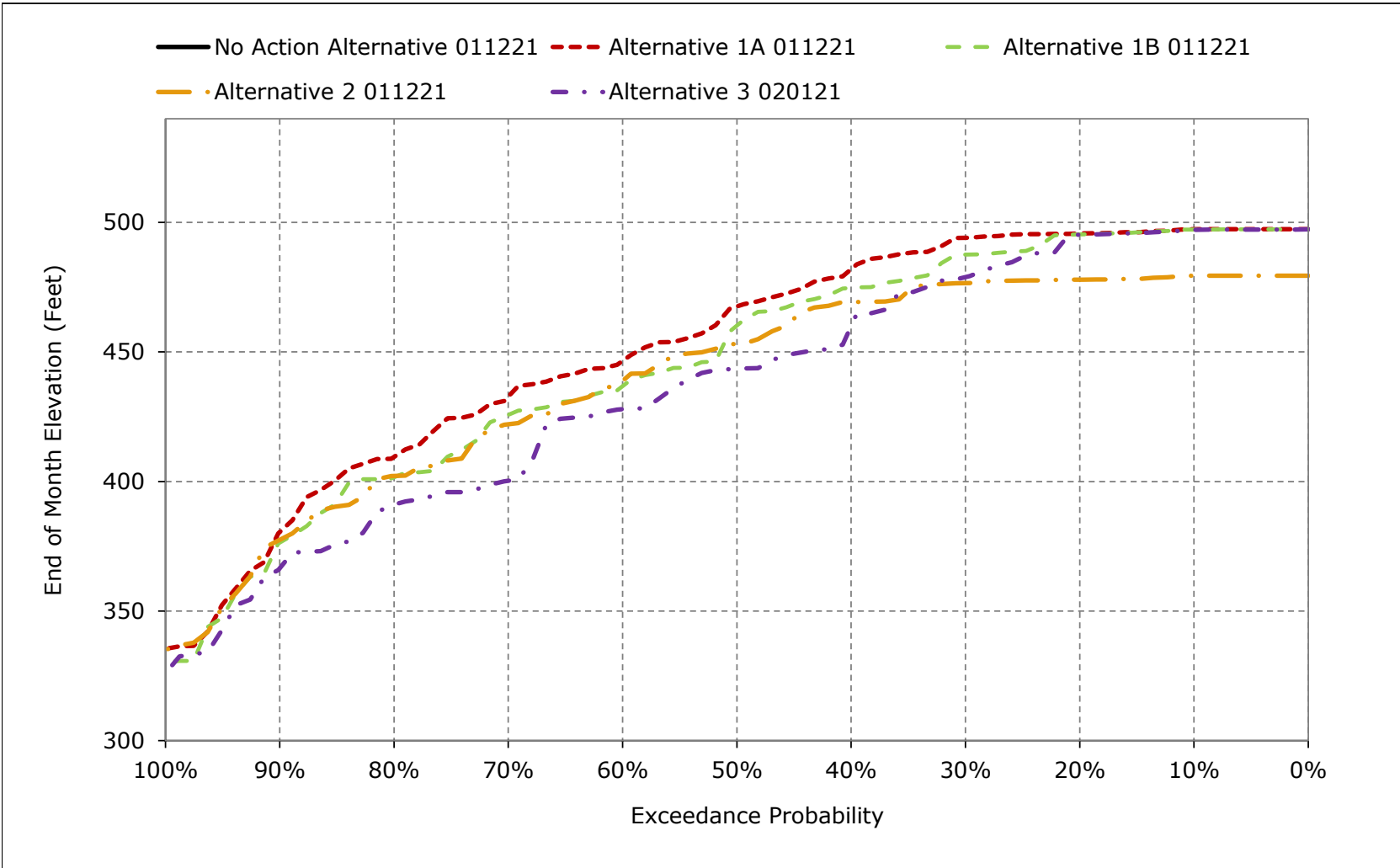
**Figure 5B1-8-7. Sites Reservoir Elevation, April**



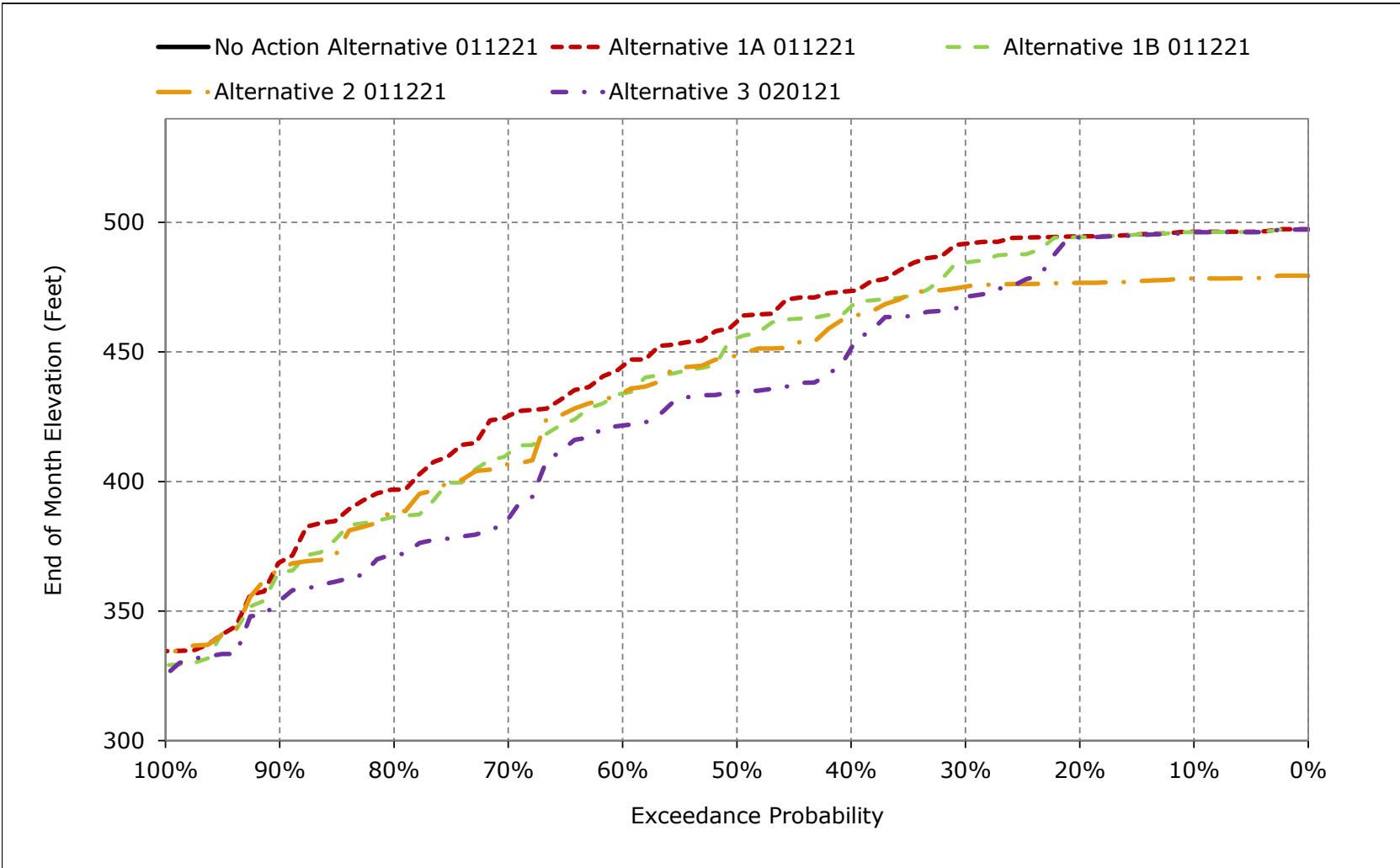
**Figure 5B1-8-8. Sites Reservoir Elevation, May**



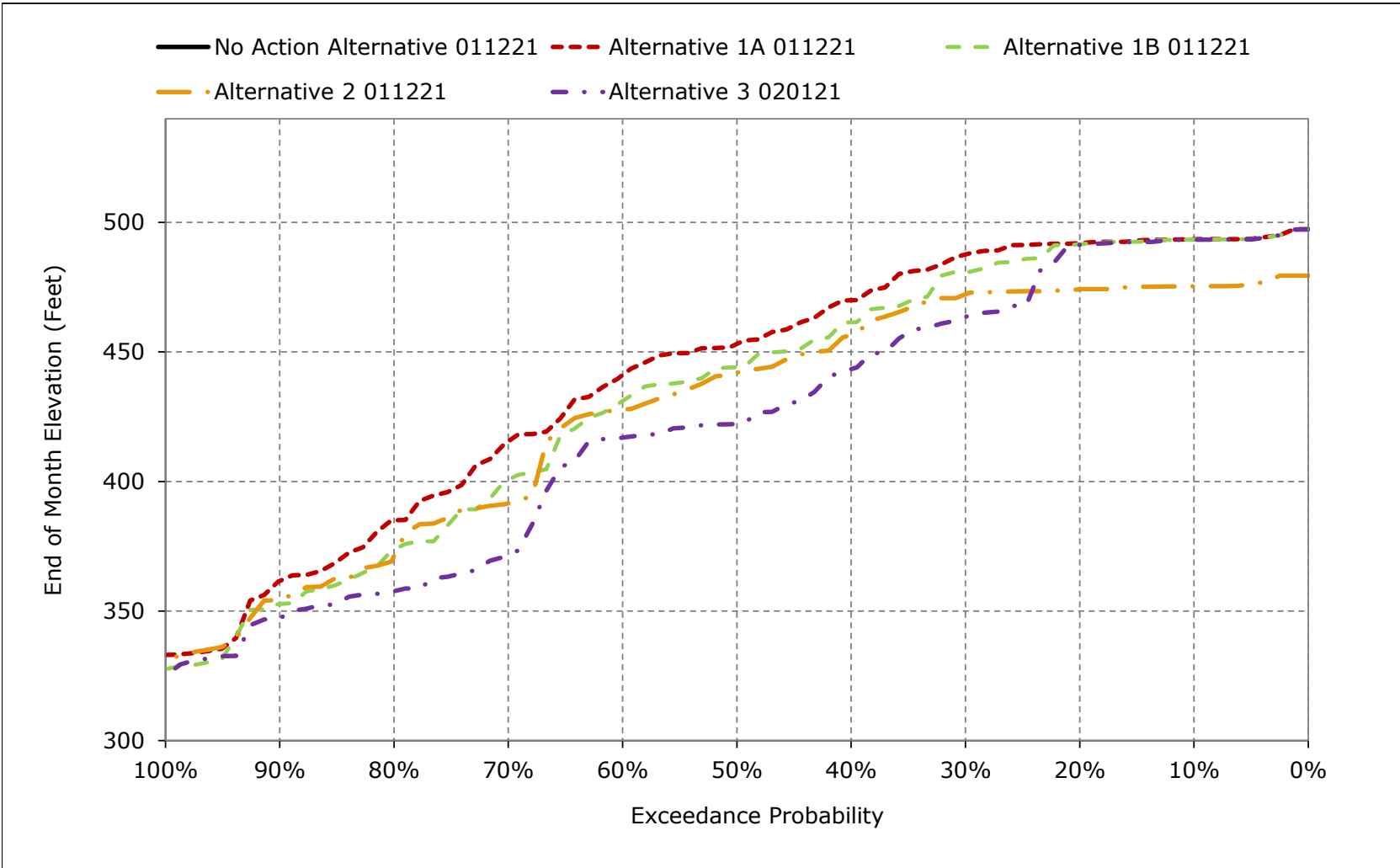
**Figure 5B1-8-9. Sites Reservoir Elevation, June**



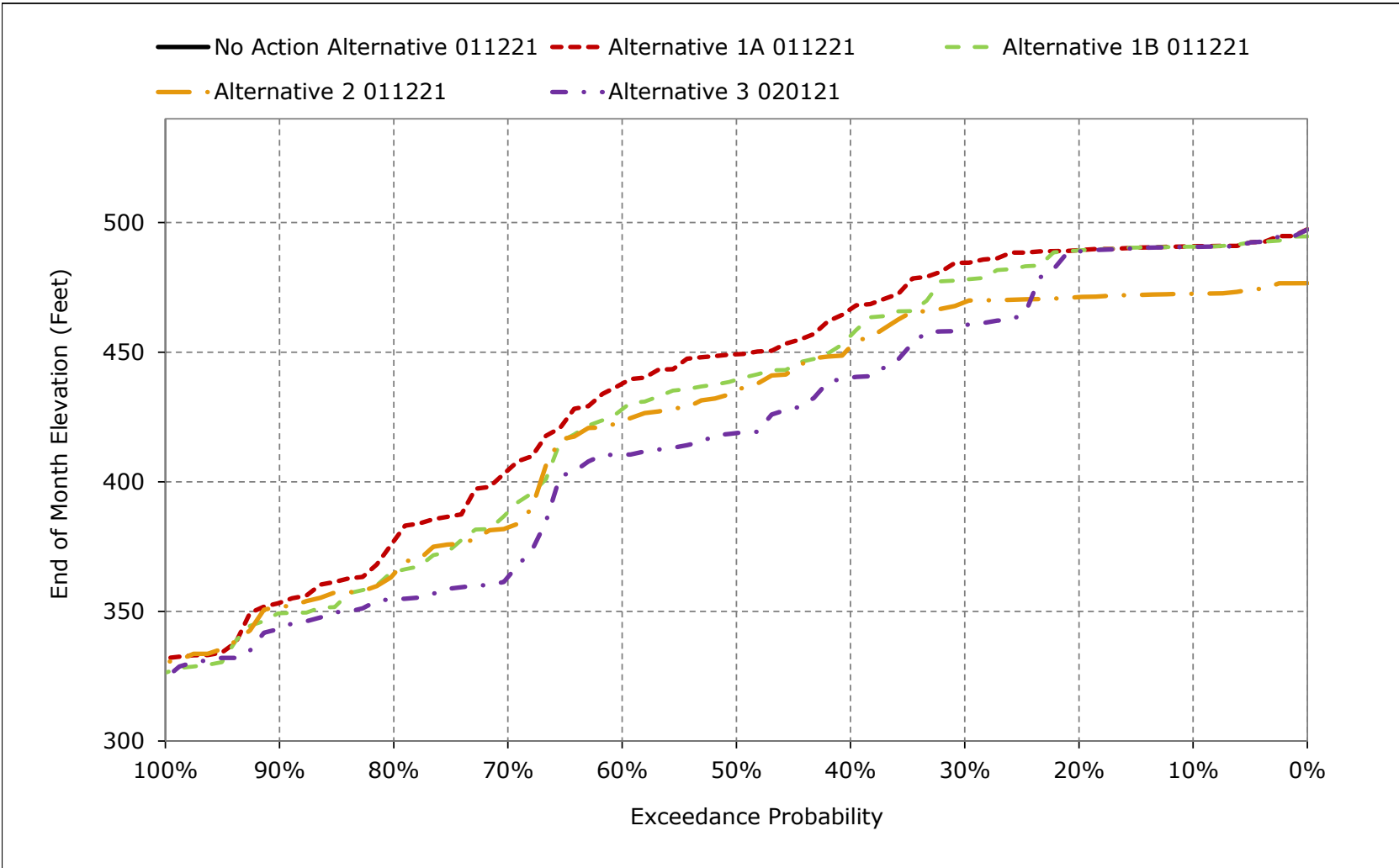
**Figure 5B1-8-10. Sites Reservoir Elevation, July**



**Figure 5B1-8-11. Sites Reservoir Elevation, August**



**Figure 5B1-8-12. Sites Reservoir Elevation, September**



**Table 5B1-9-1a. Sites Reservoir Surface Area, No Action Alternative 011221, End of Month Surface-Area (Acres)**

| Statistic                             | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <b>Probability of Exceedance</b>      |     |     |     |     |     |     |     |     |     |     |     |     |
| 10%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 20%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 30%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 40%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 50%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 60%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 70%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 80%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 90%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| <b>Long Term</b>                      |     |     |     |     |     |     |     |     |     |     |     |     |
| Full Simulation Period <sup>a</sup>   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |     |     |     |     |     |     |     |     |     |     |
| Wet (32%)                             | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Above Normal (15%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Below Normal (17%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Dry (22%)                             | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Critical (15%)                        | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |

**Table 5B1-9-1b. Sites Reservoir Surface Area, Alternative 1A 011221, End of Month Surface-Area (Acres)**

| Statistic                             | Oct    | Nov    | Dec    | Jan    | Feb    | Mar    | Apr    | May    | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <b>Probability of Exceedance</b>      |        |        |        |        |        |        |        |        |        |        |        |        |
| 10%                                   | 12,721 | 12,971 | 12,975 | 13,130 | 13,130 | 13,130 | 13,129 | 13,111 | 13,129 | 13,082 | 12,949 | 12,827 |
| 20%                                   | 12,667 | 12,659 | 12,669 | 12,937 | 13,130 | 13,130 | 13,115 | 13,088 | 13,053 | 13,002 | 12,882 | 12,756 |
| 30%                                   | 12,360 | 12,269 | 12,362 | 12,615 | 12,745 | 13,114 | 13,085 | 13,041 | 12,975 | 12,868 | 12,677 | 12,535 |
| 40%                                   | 11,441 | 11,399 | 11,552 | 11,629 | 11,985 | 12,739 | 12,841 | 12,704 | 12,415 | 12,000 | 11,820 | 11,650 |
| 50%                                   | 10,656 | 10,605 | 10,625 | 10,882 | 11,351 | 11,411 | 11,362 | 11,593 | 11,698 | 11,399 | 10,953 | 10,748 |
| 60%                                   | 10,002 | 10,158 | 10,171 | 10,357 | 10,564 | 10,792 | 10,875 | 10,959 | 10,606 | 10,500 | 10,321 | 10,140 |
| 70%                                   | 7,725  | 7,517  | 7,583  | 8,581  | 8,990  | 10,031 | 10,288 | 10,139 | 9,853  | 9,425  | 8,804  | 8,021  |
| 80%                                   | 6,073  | 5,505  | 6,470  | 6,817  | 7,860  | 8,992  | 9,014  | 8,973  | 8,375  | 7,513  | 6,813  | 6,328  |
| 90%                                   | 4,632  | 4,787  | 4,864  | 5,379  | 5,912  | 6,956  | 6,874  | 6,753  | 6,544  | 5,809  | 5,359  | 4,780  |
| <b>Long Term</b>                      |        |        |        |        |        |        |        |        |        |        |        |        |
| Full Simulation Period <sup>a</sup>   | 9,608  | 9,565  | 9,718  | 10,093 | 10,463 | 10,888 | 10,941 | 10,830 | 10,668 | 10,338 | 9,998  | 9,735  |
| <b>Water Year Types<sup>b,c</sup></b> |        |        |        |        |        |        |        |        |        |        |        |        |
| Wet (32%)                             | 12,362 | 12,446 | 12,458 | 11,526 | 11,988 | 12,361 | 12,609 | 12,647 | 12,652 | 12,624 | 12,521 | 12,407 |
| Above Normal (15%)                    | 11,316 | 11,347 | 11,383 | 10,371 | 10,855 | 11,540 | 11,614 | 11,614 | 11,636 | 11,560 | 11,412 | 11,269 |
| Below Normal (17%)                    | 9,284  | 9,157  | 9,421  | 9,400  | 9,883  | 10,413 | 10,486 | 10,430 | 10,347 | 10,029 | 9,649  | 9,415  |
| Dry (22%)                             | 7,843  | 7,651  | 7,825  | 9,972  | 10,211 | 10,580 | 10,496 | 10,364 | 9,951  | 9,236  | 8,617  | 8,125  |
| Critical (15%)                        | 4,958  | 4,892  | 5,305  | 7,703  | 7,820  | 8,065  | 7,851  | 7,272  | 6,854  | 6,174  | 5,594  | 5,197  |

**Table 5B1-9-1c. Sites Reservoir Surface Area, Alternative 1A 011221 minus No Action Alternative 011221, End of Month Surface-Area (Acres)**

| Statistic                             | Oct    | Nov    | Dec    | Jan    | Feb    | Mar    | Apr    | May    | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <b>Probability of Exceedance</b>      |        |        |        |        |        |        |        |        |        |        |        |        |
| 10%                                   | 12,721 | 12,971 | 12,975 | 13,130 | 13,130 | 13,130 | 13,129 | 13,111 | 13,129 | 13,082 | 12,949 | 12,827 |
| 20%                                   | 12,667 | 12,659 | 12,669 | 12,937 | 13,130 | 13,130 | 13,115 | 13,088 | 13,053 | 13,002 | 12,882 | 12,756 |
| 30%                                   | 12,360 | 12,269 | 12,362 | 12,615 | 12,745 | 13,114 | 13,085 | 13,041 | 12,975 | 12,868 | 12,677 | 12,535 |
| 40%                                   | 11,441 | 11,399 | 11,552 | 11,629 | 11,985 | 12,739 | 12,841 | 12,704 | 12,415 | 12,000 | 11,820 | 11,650 |
| 50%                                   | 10,656 | 10,605 | 10,625 | 10,882 | 11,351 | 11,411 | 11,362 | 11,593 | 11,698 | 11,399 | 10,953 | 10,748 |
| 60%                                   | 10,002 | 10,158 | 10,171 | 10,357 | 10,564 | 10,792 | 10,875 | 10,959 | 10,606 | 10,500 | 10,321 | 10,140 |
| 70%                                   | 7,725  | 7,517  | 7,583  | 8,581  | 8,990  | 10,031 | 10,288 | 10,139 | 9,853  | 9,425  | 8,804  | 8,021  |
| 80%                                   | 6,073  | 5,505  | 6,470  | 6,817  | 7,860  | 8,992  | 9,014  | 8,973  | 8,375  | 7,513  | 6,813  | 6,328  |
| 90%                                   | 4,632  | 4,787  | 4,864  | 5,379  | 5,912  | 6,956  | 6,874  | 6,753  | 6,544  | 5,809  | 5,359  | 4,780  |
| <b>Long Term</b>                      |        |        |        |        |        |        |        |        |        |        |        |        |
| Full Simulation Period <sup>a</sup>   | 9,608  | 9,565  | 9,718  | 10,093 | 10,463 | 10,888 | 10,941 | 10,830 | 10,668 | 10,338 | 9,998  | 9,735  |
| <b>Water Year Types<sup>b,c</sup></b> |        |        |        |        |        |        |        |        |        |        |        |        |
| Wet (32%)                             | 12,362 | 12,446 | 12,458 | 11,526 | 11,988 | 12,361 | 12,609 | 12,647 | 12,652 | 12,624 | 12,521 | 12,407 |
| Above Normal (15%)                    | 11,316 | 11,347 | 11,383 | 10,371 | 10,855 | 11,540 | 11,614 | 11,614 | 11,636 | 11,560 | 11,412 | 11,269 |
| Below Normal (17%)                    | 9,284  | 9,157  | 9,421  | 9,400  | 9,883  | 10,413 | 10,486 | 10,430 | 10,347 | 10,029 | 9,649  | 9,415  |
| Dry (22%)                             | 7,843  | 7,651  | 7,825  | 9,972  | 10,211 | 10,580 | 10,496 | 10,364 | 9,951  | 9,236  | 8,617  | 8,125  |
| Critical (15%)                        | 4,958  | 4,892  | 5,305  | 7,703  | 7,820  | 8,065  | 7,851  | 7,272  | 6,854  | 6,174  | 5,594  | 5,197  |

a Based on the 82-year simulation period.

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

c These results are displayed with calendar year - year type sorting.

**Table 5B1-9-2a. Sites Reservoir Surface Area, No Action Alternative 011221, End of Month Surface-Area (Acres)**

| Statistic                             | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <b>Probability of Exceedance</b>      |     |     |     |     |     |     |     |     |     |     |     |     |
| 10%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 20%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 30%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 40%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 50%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 60%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 70%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 80%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 90%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| <b>Long Term</b>                      |     |     |     |     |     |     |     |     |     |     |     |     |
| Full Simulation Period <sup>a</sup>   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |     |     |     |     |     |     |     |     |     |     |
| Wet (32%)                             | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Above Normal (15%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Below Normal (17%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Dry (22%)                             | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Critical (15%)                        | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |

**Table 5B1-9-2b. Sites Reservoir Surface Area, Alternative 1B 011221, End of Month Surface-Area (Acres)**

| Statistic                             | Oct    | Nov    | Dec    | Jan    | Feb    | Mar    | Apr    | May    | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <b>Probability of Exceedance</b>      |        |        |        |        |        |        |        |        |        |        |        |        |
| 10%                                   | 12,739 | 12,922 | 12,904 | 13,127 | 13,129 | 13,129 | 13,125 | 13,106 | 13,124 | 13,077 | 12,945 | 12,822 |
| 20%                                   | 12,661 | 12,647 | 12,643 | 12,760 | 13,128 | 13,126 | 13,110 | 13,082 | 13,035 | 12,986 | 12,863 | 12,754 |
| 30%                                   | 12,033 | 12,019 | 12,033 | 12,418 | 12,649 | 13,020 | 13,015 | 12,767 | 12,675 | 12,538 | 12,370 | 12,225 |
| 40%                                   | 11,114 | 11,024 | 11,287 | 11,419 | 11,678 | 12,306 | 12,315 | 12,268 | 12,061 | 11,700 | 11,390 | 11,123 |
| 50%                                   | 10,052 | 10,004 | 10,017 | 10,433 | 10,822 | 10,939 | 10,919 | 11,289 | 11,323 | 11,077 | 10,476 | 10,224 |
| 60%                                   | 9,562  | 9,495  | 9,537  | 9,811  | 10,113 | 10,251 | 10,419 | 10,434 | 10,080 | 9,916  | 9,755  | 9,575  |
| 70%                                   | 6,790  | 6,572  | 6,944  | 7,492  | 8,247  | 9,417  | 9,852  | 9,701  | 9,448  | 8,467  | 7,753  | 7,005  |
| 80%                                   | 5,392  | 5,060  | 5,539  | 6,345  | 7,352  | 8,494  | 8,573  | 8,404  | 7,817  | 6,889  | 6,115  | 5,586  |
| 90%                                   | 4,338  | 4,344  | 4,568  | 5,148  | 5,743  | 6,818  | 6,727  | 6,529  | 6,290  | 5,571  | 4,735  | 4,492  |
| <b>Long Term</b>                      |        |        |        |        |        |        |        |        |        |        |        |        |
| Full Simulation Period <sup>a</sup>   | 9,216  | 9,171  | 9,337  | 9,751  | 10,153 | 10,611 | 10,664 | 10,525 | 10,322 | 9,956  | 9,585  | 9,331  |
| <b>Water Year Types<sup>b,c</sup></b> |        |        |        |        |        |        |        |        |        |        |        |        |
| Wet (32%)                             | 12,276 | 12,340 | 12,332 | 11,283 | 11,795 | 12,209 | 12,505 | 12,562 | 12,573 | 12,544 | 12,441 | 12,321 |
| Above Normal (15%)                    | 10,907 | 10,939 | 10,993 | 10,029 | 10,567 | 11,308 | 11,393 | 11,390 | 11,250 | 11,081 | 10,917 | 10,783 |
| Below Normal (17%)                    | 8,640  | 8,490  | 8,787  | 8,914  | 9,435  | 9,992  | 10,059 | 9,931  | 9,791  | 9,421  | 8,990  | 8,778  |
| Dry (22%)                             | 7,222  | 7,055  | 7,242  | 9,529  | 9,784  | 10,193 | 10,061 | 9,870  | 9,412  | 8,658  | 7,965  | 7,512  |
| Critical (15%)                        | 4,557  | 4,506  | 4,977  | 7,460  | 7,572  | 7,799  | 7,556  | 6,924  | 6,500  | 5,791  | 5,186  | 4,773  |

**Table 5B1-9-2c. Sites Reservoir Surface Area, Alternative 1B 011221 minus No Action Alternative 011221, End of Month Surface-Area (Acres)**

| Statistic                             | Oct    | Nov    | Dec    | Jan    | Feb    | Mar    | Apr    | May    | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <b>Probability of Exceedance</b>      |        |        |        |        |        |        |        |        |        |        |        |        |
| 10%                                   | 12,739 | 12,922 | 12,904 | 13,127 | 13,129 | 13,129 | 13,125 | 13,106 | 13,124 | 13,077 | 12,945 | 12,822 |
| 20%                                   | 12,661 | 12,647 | 12,643 | 12,760 | 13,128 | 13,126 | 13,110 | 13,082 | 13,035 | 12,986 | 12,863 | 12,754 |
| 30%                                   | 12,033 | 12,019 | 12,033 | 12,418 | 12,649 | 13,020 | 13,015 | 12,767 | 12,675 | 12,538 | 12,370 | 12,225 |
| 40%                                   | 11,114 | 11,024 | 11,287 | 11,419 | 11,678 | 12,306 | 12,315 | 12,268 | 12,061 | 11,700 | 11,390 | 11,123 |
| 50%                                   | 10,052 | 10,004 | 10,017 | 10,433 | 10,822 | 10,939 | 10,919 | 11,289 | 11,323 | 11,077 | 10,476 | 10,224 |
| 60%                                   | 9,562  | 9,495  | 9,537  | 9,811  | 10,113 | 10,251 | 10,419 | 10,434 | 10,080 | 9,916  | 9,755  | 9,575  |
| 70%                                   | 6,790  | 6,572  | 6,944  | 7,492  | 8,247  | 9,417  | 9,852  | 9,701  | 9,448  | 8,467  | 7,753  | 7,005  |
| 80%                                   | 5,392  | 5,060  | 5,539  | 6,345  | 7,352  | 8,494  | 8,573  | 8,404  | 7,817  | 6,889  | 6,115  | 5,586  |
| 90%                                   | 4,338  | 4,344  | 4,568  | 5,148  | 5,743  | 6,818  | 6,727  | 6,529  | 6,290  | 5,571  | 4,735  | 4,492  |
| <b>Long Term</b>                      |        |        |        |        |        |        |        |        |        |        |        |        |
| Full Simulation Period <sup>a</sup>   | 9,216  | 9,171  | 9,337  | 9,751  | 10,153 | 10,611 | 10,664 | 10,525 | 10,322 | 9,956  | 9,585  | 9,331  |
| <b>Water Year Types<sup>b,c</sup></b> |        |        |        |        |        |        |        |        |        |        |        |        |
| Wet (32%)                             | 12,276 | 12,340 | 12,332 | 11,283 | 11,795 | 12,209 | 12,505 | 12,562 | 12,573 | 12,544 | 12,441 | 12,321 |
| Above Normal (15%)                    | 10,907 | 10,939 | 10,993 | 10,029 | 10,567 | 11,308 | 11,393 | 11,390 | 11,250 | 11,081 | 10,917 | 10,783 |
| Below Normal (17%)                    | 8,640  | 8,490  | 8,787  | 8,914  | 9,435  | 9,992  | 10,059 | 9,931  | 9,791  | 9,421  | 8,990  | 8,778  |
| Dry (22%)                             | 7,222  | 7,055  | 7,242  | 9,529  | 9,784  | 10,193 | 10,061 | 9,870  | 9,412  | 8,658  | 7,965  | 7,512  |
| Critical (15%)                        | 4,557  | 4,506  | 4,977  | 7,460  | 7,572  | 7,799  | 7,556  | 6,924  | 6,500  | 5,791  | 5,186  | 4,773  |

a Based on the 82-year simulation period.

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

c These results are displayed with calendar year - year type sorting.



**Table 5B1-9-3a. Sites Reservoir Surface Area, No Action Alternative 011221, End of Month Surface-Area (Acres)**

| Statistic                             | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <b>Probability of Exceedance</b>      |     |     |     |     |     |     |     |     |     |     |     |     |
| 10%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 20%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 30%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 40%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 50%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 60%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 70%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 80%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 90%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| <b>Long Term</b>                      |     |     |     |     |     |     |     |     |     |     |     |     |
| Full Simulation Period <sup>a</sup>   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |     |     |     |     |     |     |     |     |     |     |
| Wet (32%)                             | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Above Normal (15%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Below Normal (17%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Dry (22%)                             | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Critical (15%)                        | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |

**Table 5B1-9-3b. Sites Reservoir Surface Area, Alternative 2 011221, End of Month Surface-Area (Acres)**

| Statistic                             | Oct    | Nov    | Dec    | Jan    | Feb    | Mar    | Apr    | May    | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <b>Probability of Exceedance</b>      |        |        |        |        |        |        |        |        |        |        |        |        |
| 10%                                   | 11,836 | 12,113 | 12,122 | 12,297 | 12,297 | 12,297 | 12,297 | 12,275 | 12,296 | 12,243 | 12,089 | 11,947 |
| 20%                                   | 11,772 | 11,776 | 11,805 | 12,090 | 12,297 | 12,297 | 12,282 | 12,257 | 12,220 | 12,159 | 12,033 | 11,885 |
| 30%                                   | 11,643 | 11,606 | 11,651 | 11,764 | 12,055 | 12,296 | 12,259 | 12,236 | 12,155 | 12,085 | 11,937 | 11,784 |
| 40%                                   | 10,823 | 10,785 | 10,983 | 11,294 | 11,620 | 12,118 | 12,097 | 11,954 | 11,785 | 11,495 | 11,141 | 10,905 |
| 50%                                   | 9,863  | 9,984  | 9,967  | 10,311 | 10,433 | 10,994 | 11,078 | 11,071 | 10,954 | 10,722 | 10,368 | 9,979  |
| 60%                                   | 9,256  | 9,047  | 9,007  | 9,352  | 9,611  | 10,069 | 10,487 | 10,256 | 10,193 | 9,930  | 9,565  | 9,312  |
| 70%                                   | 6,525  | 6,374  | 6,951  | 7,487  | 8,383  | 9,373  | 9,563  | 9,483  | 9,240  | 8,174  | 7,202  | 6,656  |
| 80%                                   | 5,255  | 5,256  | 5,666  | 6,378  | 7,484  | 8,456  | 8,384  | 8,224  | 7,851  | 7,020  | 5,966  | 5,531  |
| 90%                                   | 4,536  | 4,648  | 4,807  | 5,707  | 5,947  | 6,784  | 6,695  | 6,580  | 6,356  | 5,648  | 4,854  | 4,678  |
| <b>Long Term</b>                      |        |        |        |        |        |        |        |        |        |        |        |        |
| Full Simulation Period <sup>a</sup>   | 8,918  | 8,902  | 9,067  | 9,464  | 9,845  | 10,287 | 10,329 | 10,211 | 10,048 | 9,693  | 9,318  | 9,047  |
| <b>Water Year Types<sup>b,c</sup></b> |        |        |        |        |        |        |        |        |        |        |        |        |
| Wet (32%)                             | 11,576 | 11,669 | 11,683 | 10,842 | 11,304 | 11,654 | 11,891 | 11,927 | 11,930 | 11,897 | 11,769 | 11,622 |
| Above Normal (15%)                    | 10,873 | 10,908 | 10,943 | 9,845  | 10,350 | 11,089 | 11,167 | 11,169 | 11,188 | 11,104 | 10,941 | 10,785 |
| Below Normal (17%)                    | 8,519  | 8,425  | 8,692  | 8,714  | 9,219  | 9,778  | 9,849  | 9,792  | 9,719  | 9,395  | 8,963  | 8,681  |
| Dry (22%)                             | 6,938  | 6,822  | 7,019  | 9,236  | 9,492  | 9,898  | 9,804  | 9,658  | 9,214  | 8,413  | 7,726  | 7,250  |
| Critical (15%)                        | 4,644  | 4,576  | 5,033  | 7,317  | 7,440  | 7,696  | 7,453  | 6,856  | 6,465  | 5,775  | 5,188  | 4,848  |

**Table 5B1-9-3c. Sites Reservoir Surface Area, Alternative 2 011221 minus No Action Alternative 011221, End of Month Surface-Area (Acres)**

| Statistic                             | Oct    | Nov    | Dec    | Jan    | Feb    | Mar    | Apr    | May    | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <b>Probability of Exceedance</b>      |        |        |        |        |        |        |        |        |        |        |        |        |
| 10%                                   | 11,836 | 12,113 | 12,122 | 12,297 | 12,297 | 12,297 | 12,297 | 12,275 | 12,296 | 12,243 | 12,089 | 11,947 |
| 20%                                   | 11,772 | 11,776 | 11,805 | 12,090 | 12,297 | 12,297 | 12,282 | 12,257 | 12,220 | 12,159 | 12,033 | 11,885 |
| 30%                                   | 11,643 | 11,606 | 11,651 | 11,764 | 12,055 | 12,296 | 12,259 | 12,236 | 12,155 | 12,085 | 11,937 | 11,784 |
| 40%                                   | 10,823 | 10,785 | 10,983 | 11,294 | 11,620 | 12,118 | 12,097 | 11,954 | 11,785 | 11,495 | 11,141 | 10,905 |
| 50%                                   | 9,863  | 9,984  | 9,967  | 10,311 | 10,433 | 10,994 | 11,078 | 11,071 | 10,954 | 10,722 | 10,368 | 9,979  |
| 60%                                   | 9,256  | 9,047  | 9,007  | 9,352  | 9,611  | 10,069 | 10,487 | 10,256 | 10,193 | 9,930  | 9,565  | 9,312  |
| 70%                                   | 6,525  | 6,374  | 6,951  | 7,487  | 8,383  | 9,373  | 9,563  | 9,483  | 9,240  | 8,174  | 7,202  | 6,656  |
| 80%                                   | 5,255  | 5,256  | 5,666  | 6,378  | 7,484  | 8,456  | 8,384  | 8,224  | 7,851  | 7,020  | 5,966  | 5,531  |
| 90%                                   | 4,536  | 4,648  | 4,807  | 5,707  | 5,947  | 6,784  | 6,695  | 6,580  | 6,356  | 5,648  | 4,854  | 4,678  |
| <b>Long Term</b>                      |        |        |        |        |        |        |        |        |        |        |        |        |
| Full Simulation Period <sup>a</sup>   | 8,918  | 8,902  | 9,067  | 9,464  | 9,845  | 10,287 | 10,329 | 10,211 | 10,048 | 9,693  | 9,318  | 9,047  |
| <b>Water Year Types<sup>b,c</sup></b> |        |        |        |        |        |        |        |        |        |        |        |        |
| Wet (32%)                             | 11,576 | 11,669 | 11,683 | 10,842 | 11,304 | 11,654 | 11,891 | 11,927 | 11,930 | 11,897 | 11,769 | 11,622 |
| Above Normal (15%)                    | 10,873 | 10,908 | 10,943 | 9,845  | 10,350 | 11,089 | 11,167 | 11,169 | 11,188 | 11,104 | 10,941 | 10,785 |
| Below Normal (17%)                    | 8,519  | 8,425  | 8,692  | 8,714  | 9,219  | 9,778  | 9,849  | 9,792  | 9,719  | 9,395  | 8,963  | 8,681  |
| Dry (22%)                             | 6,938  | 6,822  | 7,019  | 9,236  | 9,492  | 9,898  | 9,804  | 9,658  | 9,214  | 8,413  | 7,726  | 7,250  |
| Critical (15%)                        | 4,644  | 4,576  | 5,033  | 7,317  | 7,440  | 7,696  | 7,453  | 6,856  | 6,465  | 5,775  | 5,188  | 4,848  |

a Based on the 82-year simulation period.

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

c These results are displayed with calendar year - year type sorting.

**Table 5B1-9-4a. Sites Reservoir Surface Area, No Action Alternative 011221, End of Month Surface-Area (Acres)**

| Statistic                             | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <b>Probability of Exceedance</b>      |     |     |     |     |     |     |     |     |     |     |     |     |
| 10%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 20%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 30%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 40%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 50%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 60%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 70%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 80%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 90%                                   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| <b>Long Term</b>                      |     |     |     |     |     |     |     |     |     |     |     |     |
| Full Simulation Period <sup>a</sup>   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| <b>Water Year Types<sup>b,c</sup></b> |     |     |     |     |     |     |     |     |     |     |     |     |
| Wet (32%)                             | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Above Normal (15%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Below Normal (17%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Dry (22%)                             | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Critical (15%)                        | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |

**Table 5B1-9-4b. Sites Reservoir Surface Area, Alternative 3 020121, End of Month Surface-Area (Acres)**

| Statistic                             | Oct    | Nov    | Dec    | Jan    | Feb    | Mar    | Apr    | May    | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <b>Probability of Exceedance</b>      |        |        |        |        |        |        |        |        |        |        |        |        |
| 10%                                   | 12,728 | 12,938 | 12,909 | 13,130 | 13,130 | 13,130 | 13,121 | 13,106 | 13,115 | 13,073 | 12,942 | 12,816 |
| 20%                                   | 12,643 | 12,615 | 12,644 | 12,690 | 13,076 | 13,128 | 13,106 | 13,082 | 13,031 | 12,986 | 12,848 | 12,736 |
| 30%                                   | 11,187 | 11,132 | 11,249 | 11,478 | 11,799 | 12,560 | 12,888 | 12,713 | 12,271 | 11,825 | 11,495 | 11,319 |
| 40%                                   | 10,194 | 10,067 | 10,122 | 10,265 | 11,006 | 11,564 | 11,604 | 11,479 | 11,314 | 10,866 | 10,442 | 10,269 |
| 50%                                   | 8,994  | 9,037  | 9,211  | 9,758  | 10,096 | 10,796 | 10,850 | 10,903 | 10,446 | 9,955  | 9,248  | 9,036  |
| 60%                                   | 8,022  | 7,984  | 7,971  | 8,649  | 8,859  | 9,558  | 9,890  | 9,946  | 9,575  | 9,213  | 8,903  | 8,444  |
| 70%                                   | 5,388  | 5,496  | 6,159  | 7,002  | 7,904  | 8,887  | 8,905  | 8,453  | 7,721  | 6,847  | 5,990  | 5,463  |
| 80%                                   | 4,782  | 4,757  | 4,946  | 5,850  | 6,907  | 7,663  | 7,753  | 7,630  | 7,174  | 6,000  | 5,088  | 4,879  |
| 90%                                   | 3,914  | 3,905  | 4,297  | 4,778  | 5,388  | 6,167  | 6,099  | 6,067  | 5,664  | 4,828  | 4,342  | 4,069  |
| <b>Long Term</b>                      |        |        |        |        |        |        |        |        |        |        |        |        |
| Full Simulation Period <sup>a</sup>   | 8,598  | 8,587  | 8,778  | 9,237  | 9,687  | 10,199 | 10,270 | 10,104 | 9,828  | 9,333  | 8,942  | 8,696  |
| <b>Water Year Types<sup>b,c</sup></b> |        |        |        |        |        |        |        |        |        |        |        |        |
| Wet (32%)                             | 12,174 | 12,240 | 12,232 | 10,905 | 11,467 | 11,994 | 12,356 | 12,438 | 12,458 | 12,428 | 12,321 | 12,209 |
| Above Normal (15%)                    | 9,942  | 10,000 | 10,101 | 9,693  | 10,291 | 11,102 | 11,197 | 11,194 | 10,964 | 10,411 | 9,981  | 9,775  |
| Below Normal (17%)                    | 7,654  | 7,581  | 7,882  | 8,409  | 9,000  | 9,598  | 9,664  | 9,510  | 9,158  | 8,547  | 8,081  | 7,836  |
| Dry (22%)                             | 6,192  | 6,089  | 6,320  | 8,700  | 9,000  | 9,447  | 9,307  | 9,011  | 8,442  | 7,558  | 6,924  | 6,481  |
| Critical (15%)                        | 4,219  | 4,176  | 4,705  | 6,941  | 7,058  | 7,235  | 6,973  | 6,287  | 5,853  | 5,133  | 4,615  | 4,332  |

**Table 5B1-9-4c. Sites Reservoir Surface Area, Alternative 3 020121 minus No Action Alternative 011221, End of Month Surface-Area (Acres)**

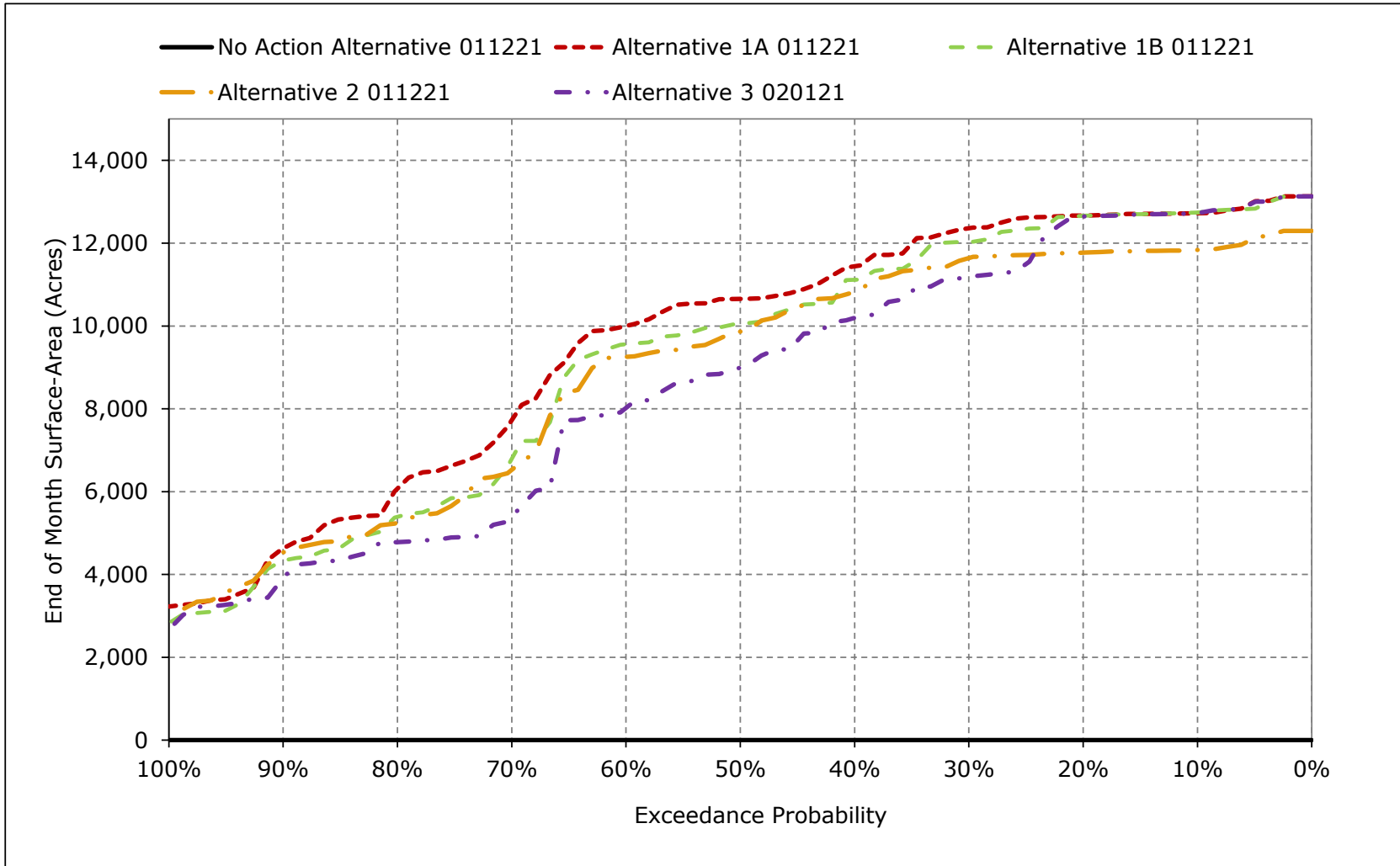
| Statistic                             | Oct    | Nov    | Dec    | Jan    | Feb    | Mar    | Apr    | May    | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <b>Probability of Exceedance</b>      |        |        |        |        |        |        |        |        |        |        |        |        |
| 10%                                   | 12,728 | 12,938 | 12,909 | 13,130 | 13,130 | 13,130 | 13,121 | 13,106 | 13,115 | 13,073 | 12,942 | 12,816 |
| 20%                                   | 12,643 | 12,615 | 12,644 | 12,690 | 13,076 | 13,128 | 13,106 | 13,082 | 13,031 | 12,986 | 12,848 | 12,736 |
| 30%                                   | 11,187 | 11,132 | 11,249 | 11,478 | 11,799 | 12,560 | 12,888 | 12,713 | 12,271 | 11,825 | 11,495 | 11,319 |
| 40%                                   | 10,194 | 10,067 | 10,122 | 10,265 | 11,006 | 11,564 | 11,604 | 11,479 | 11,314 | 10,866 | 10,442 | 10,269 |
| 50%                                   | 8,994  | 9,037  | 9,211  | 9,758  | 10,096 | 10,796 | 10,850 | 10,903 | 10,446 | 9,955  | 9,248  | 9,036  |
| 60%                                   | 8,022  | 7,984  | 7,971  | 8,649  | 8,859  | 9,558  | 9,890  | 9,946  | 9,575  | 9,213  | 8,903  | 8,444  |
| 70%                                   | 5,388  | 5,496  | 6,159  | 7,002  | 7,904  | 8,887  | 8,905  | 8,453  | 7,721  | 6,847  | 5,990  | 5,463  |
| 80%                                   | 4,782  | 4,757  | 4,946  | 5,850  | 6,907  | 7,663  | 7,753  | 7,630  | 7,174  | 6,000  | 5,088  | 4,879  |
| 90%                                   | 3,914  | 3,905  | 4,297  | 4,778  | 5,388  | 6,167  | 6,099  | 6,067  | 5,664  | 4,828  | 4,342  | 4,069  |
| <b>Long Term</b>                      |        |        |        |        |        |        |        |        |        |        |        |        |
| Full Simulation Period <sup>a</sup>   | 8,598  | 8,587  | 8,778  | 9,237  | 9,687  | 10,199 | 10,270 | 10,104 | 9,828  | 9,333  | 8,942  | 8,696  |
| <b>Water Year Types<sup>b,c</sup></b> |        |        |        |        |        |        |        |        |        |        |        |        |
| Wet (32%)                             | 12,174 | 12,240 | 12,232 | 10,905 | 11,467 | 11,994 | 12,356 | 12,438 | 12,458 | 12,428 | 12,321 | 12,209 |
| Above Normal (15%)                    | 9,942  | 10,000 | 10,101 | 9,693  | 10,291 | 11,102 | 11,197 | 11,194 | 10,964 | 10,411 | 9,981  | 9,775  |
| Below Normal (17%)                    | 7,654  | 7,581  | 7,882  | 8,409  | 9,000  | 9,598  | 9,664  | 9,510  | 9,158  | 8,547  | 8,081  | 7,836  |
| Dry (22%)                             | 6,192  | 6,089  | 6,320  | 8,700  | 9,000  | 9,447  | 9,307  | 9,011  | 8,442  | 7,558  | 6,924  | 6,481  |
| Critical (15%)                        | 4,219  | 4,176  | 4,705  | 6,941  | 7,058  | 7,235  | 6,973  | 6,287  | 5,853  | 5,133  | 4,615  | 4,332  |

a Based on the 82-year simulation period.

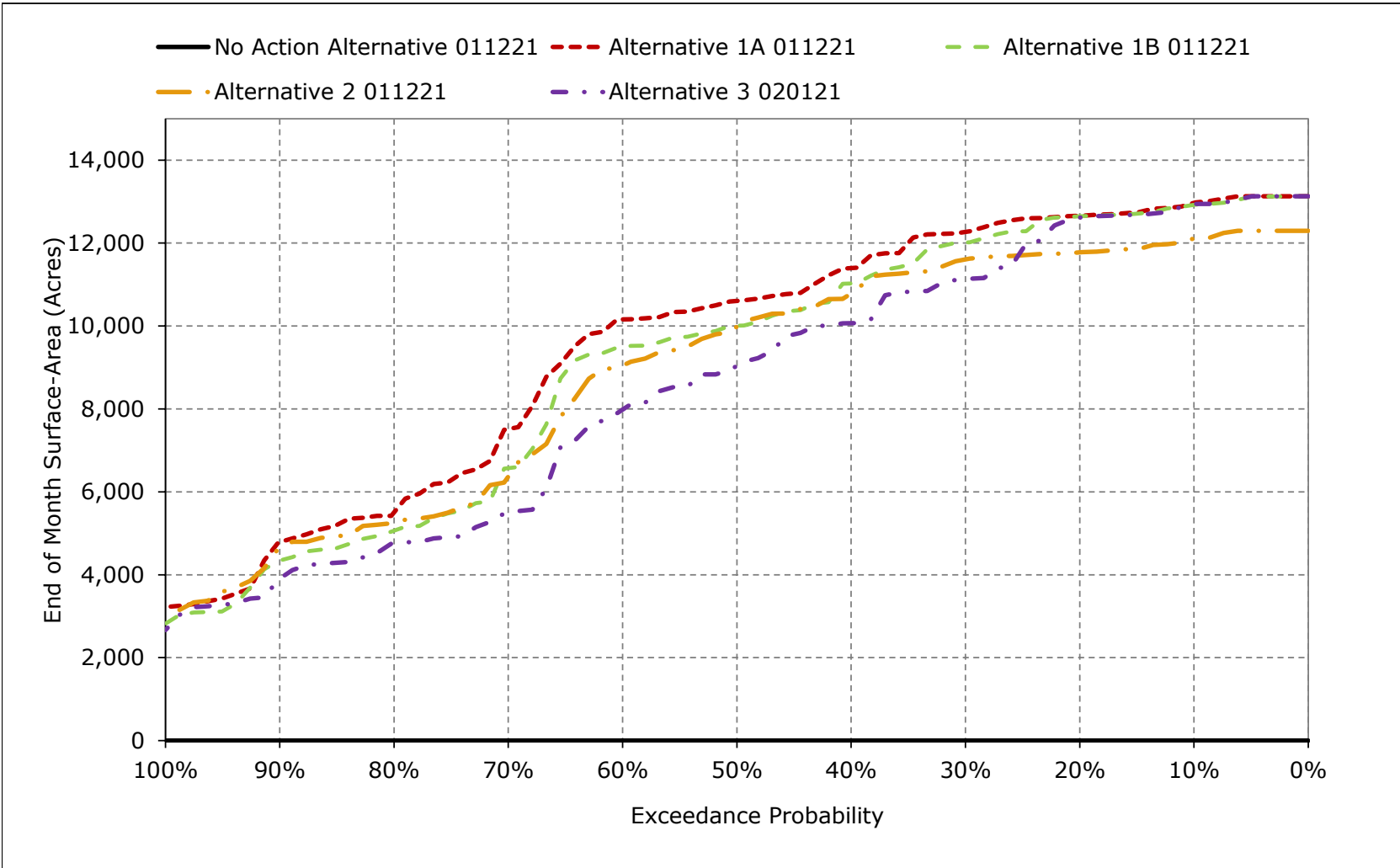
b As defined by the Sacramento Valley 40-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

c These results are displayed with calendar year - year type sorting.

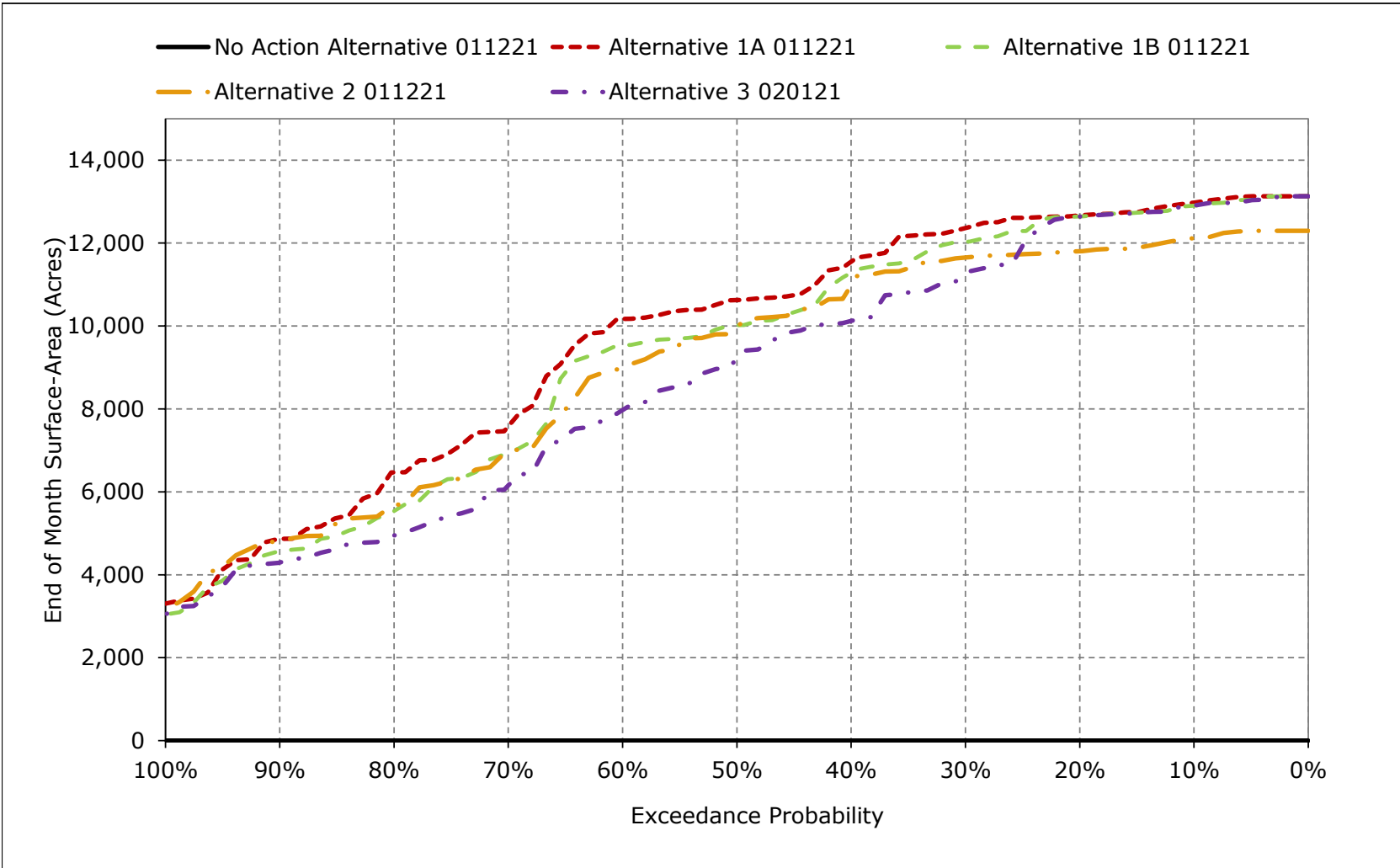
**Figure 5B1-9-1. Sites Reservoir Surface Area, October**



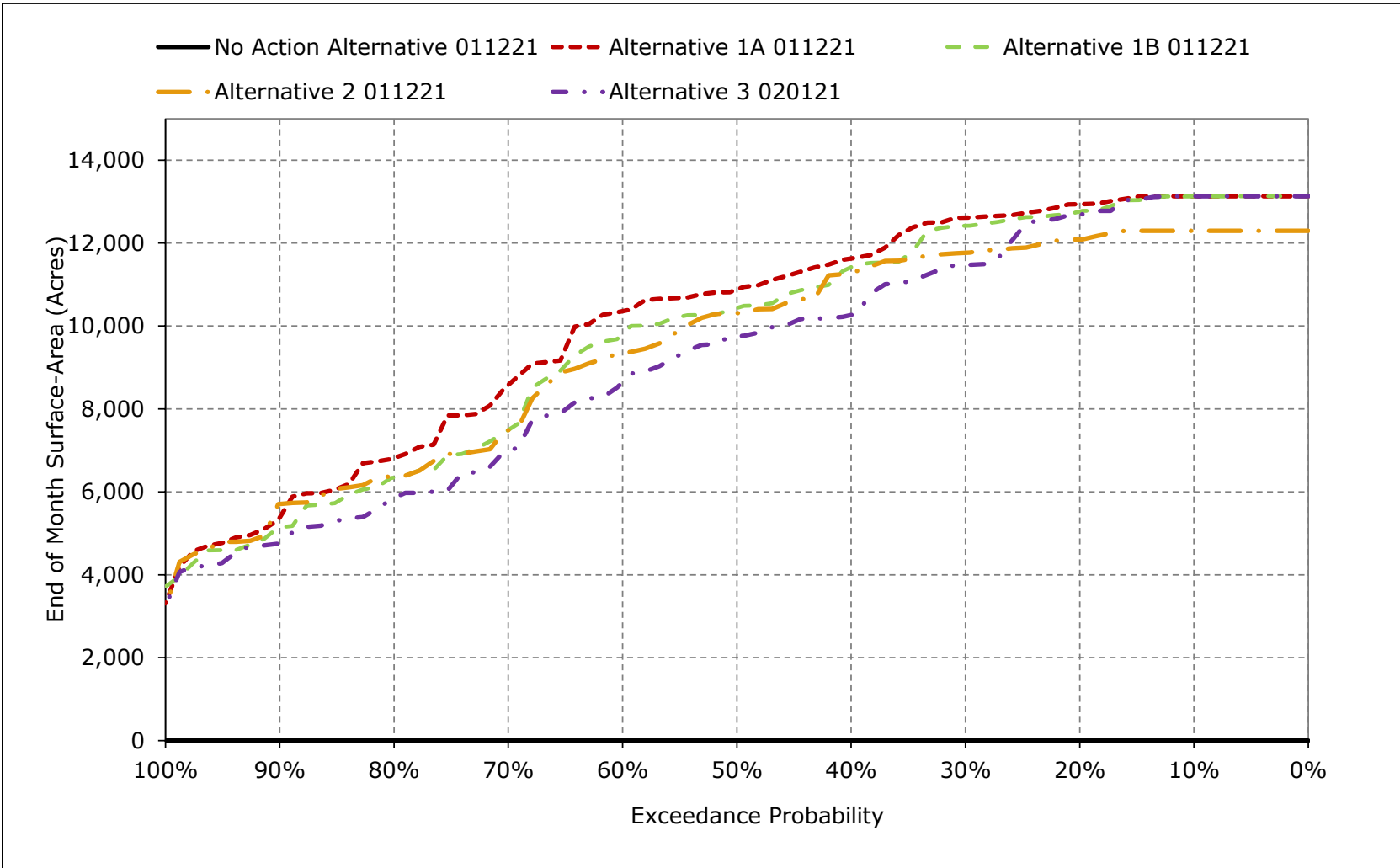
**Figure 5B1-9-2. Sites Reservoir Surface Area, November**



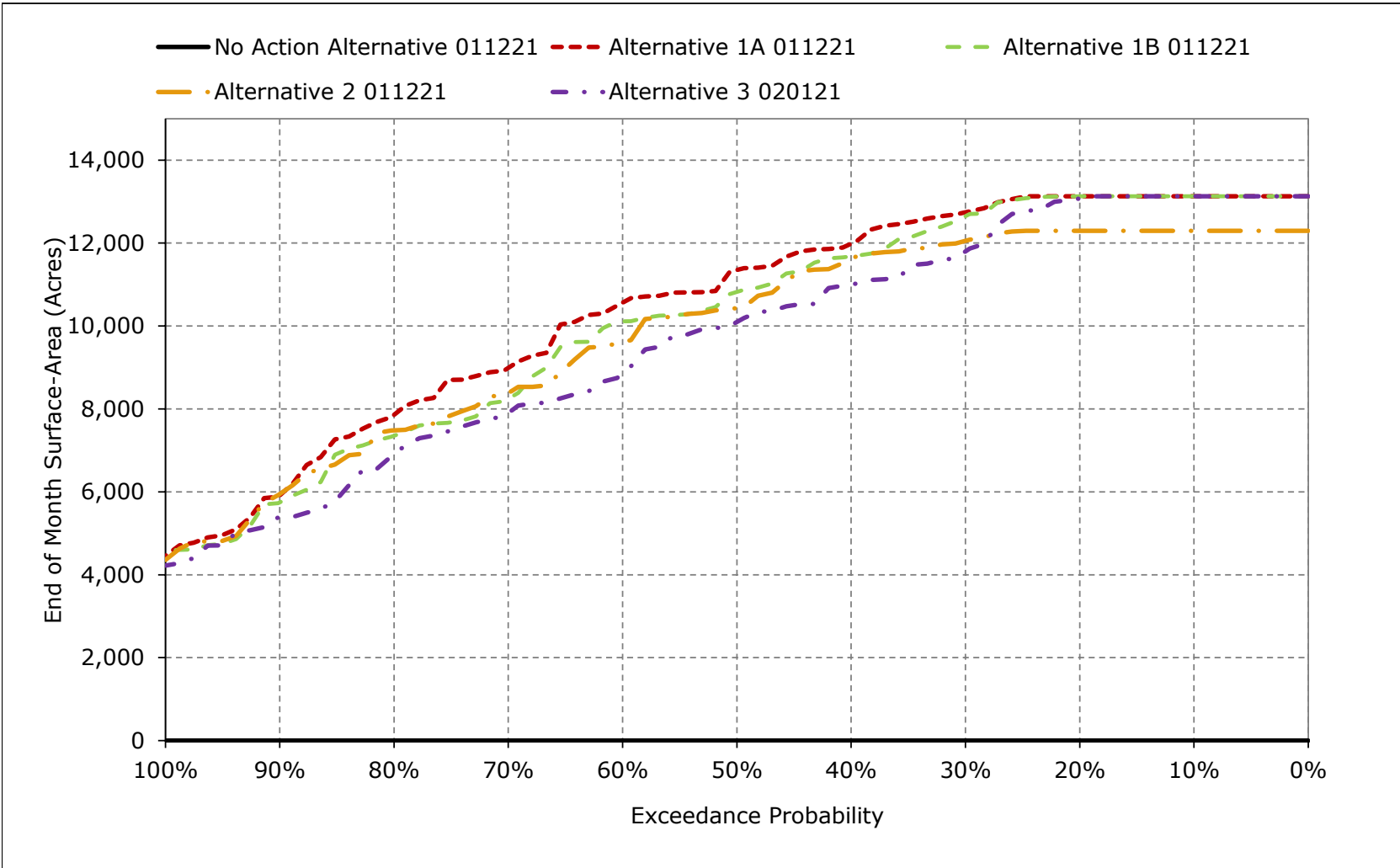
**Figure 5B1-9-3. Sites Reservoir Surface Area, December**



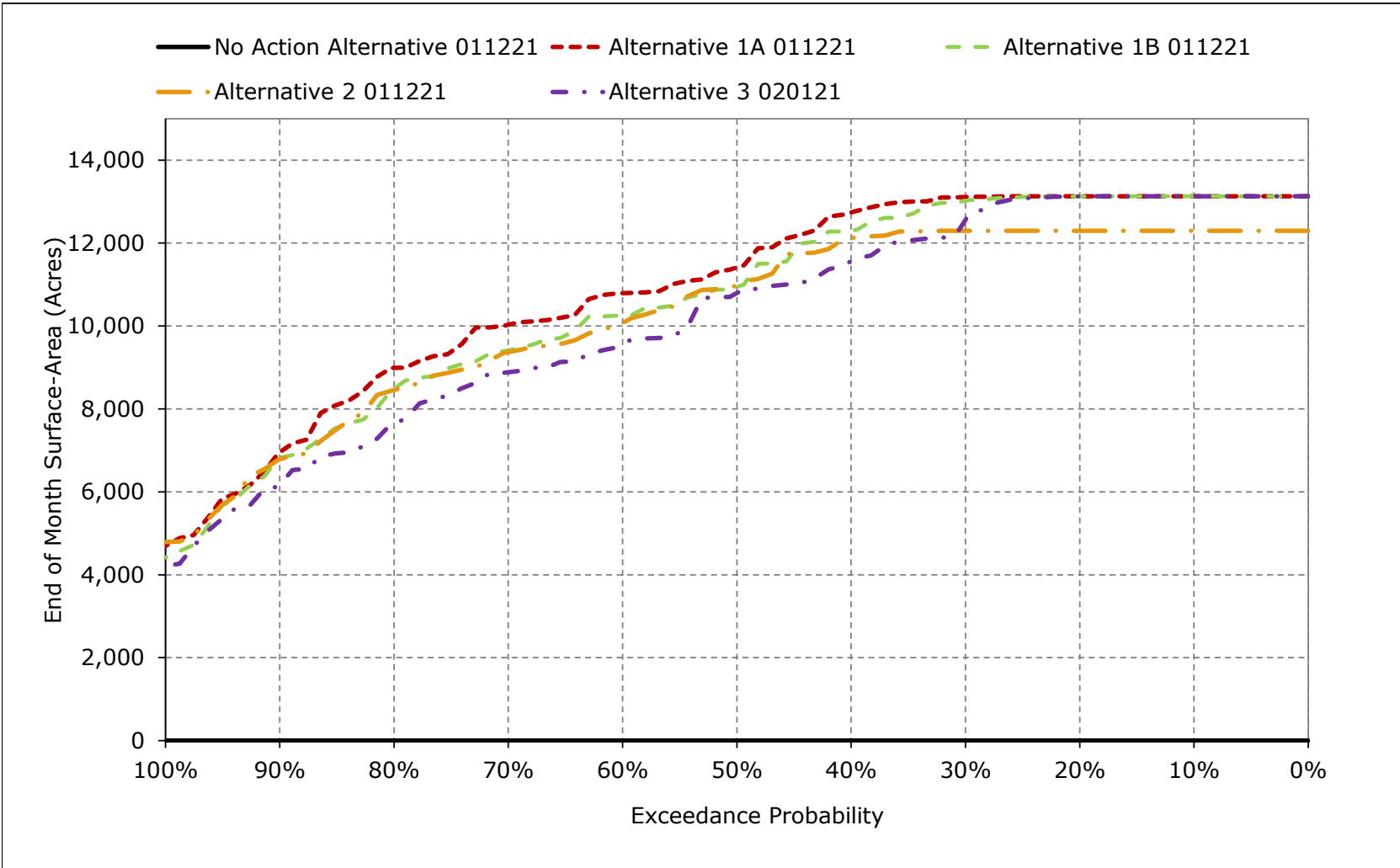
**Figure 5B1-9-4. Sites Reservoir Surface Area, January**



**Figure 5B1-9-5. Sites Reservoir Surface Area, February**

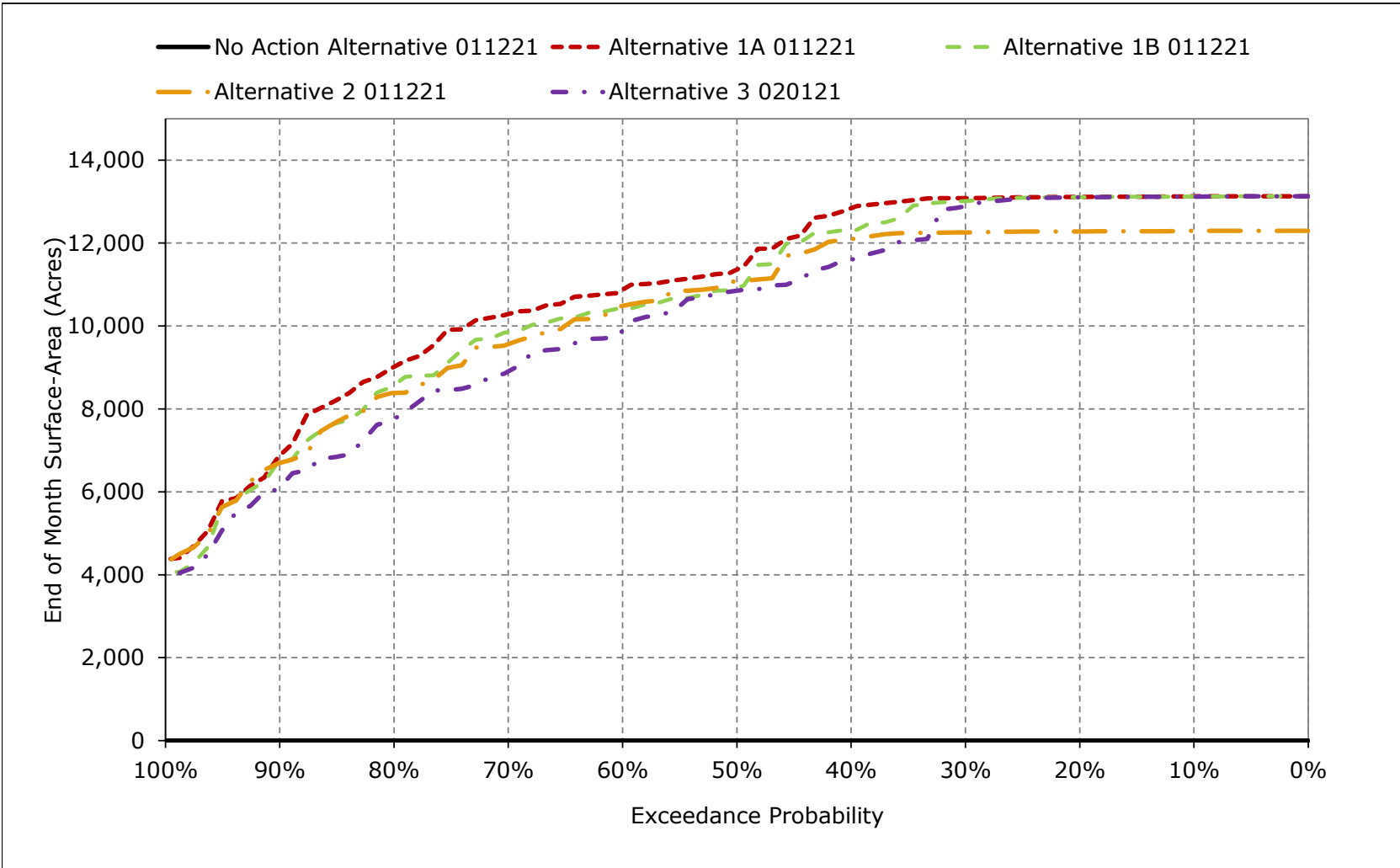


**Figure 5B1-9-6. Sites Reservoir Surface Area, March**

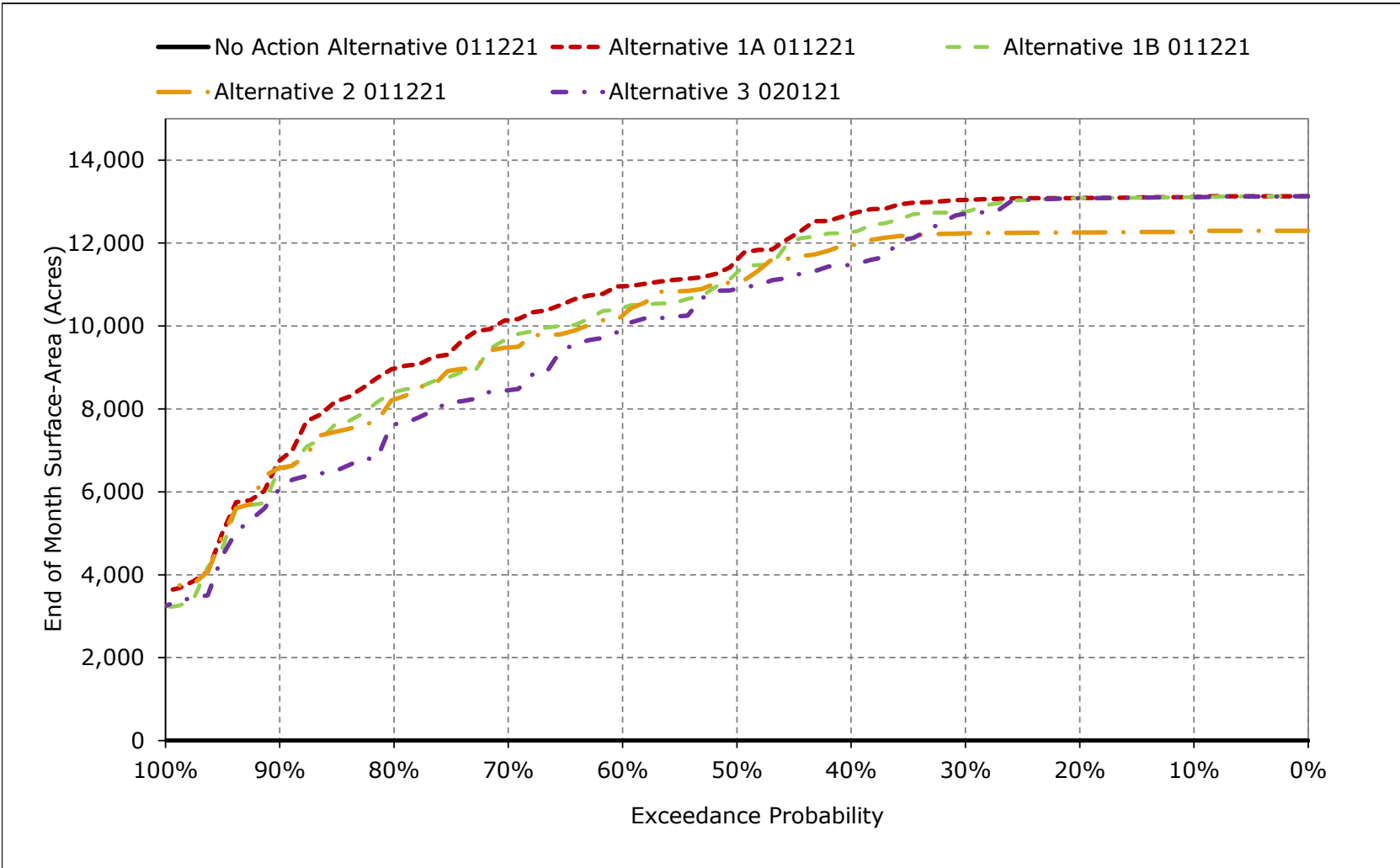




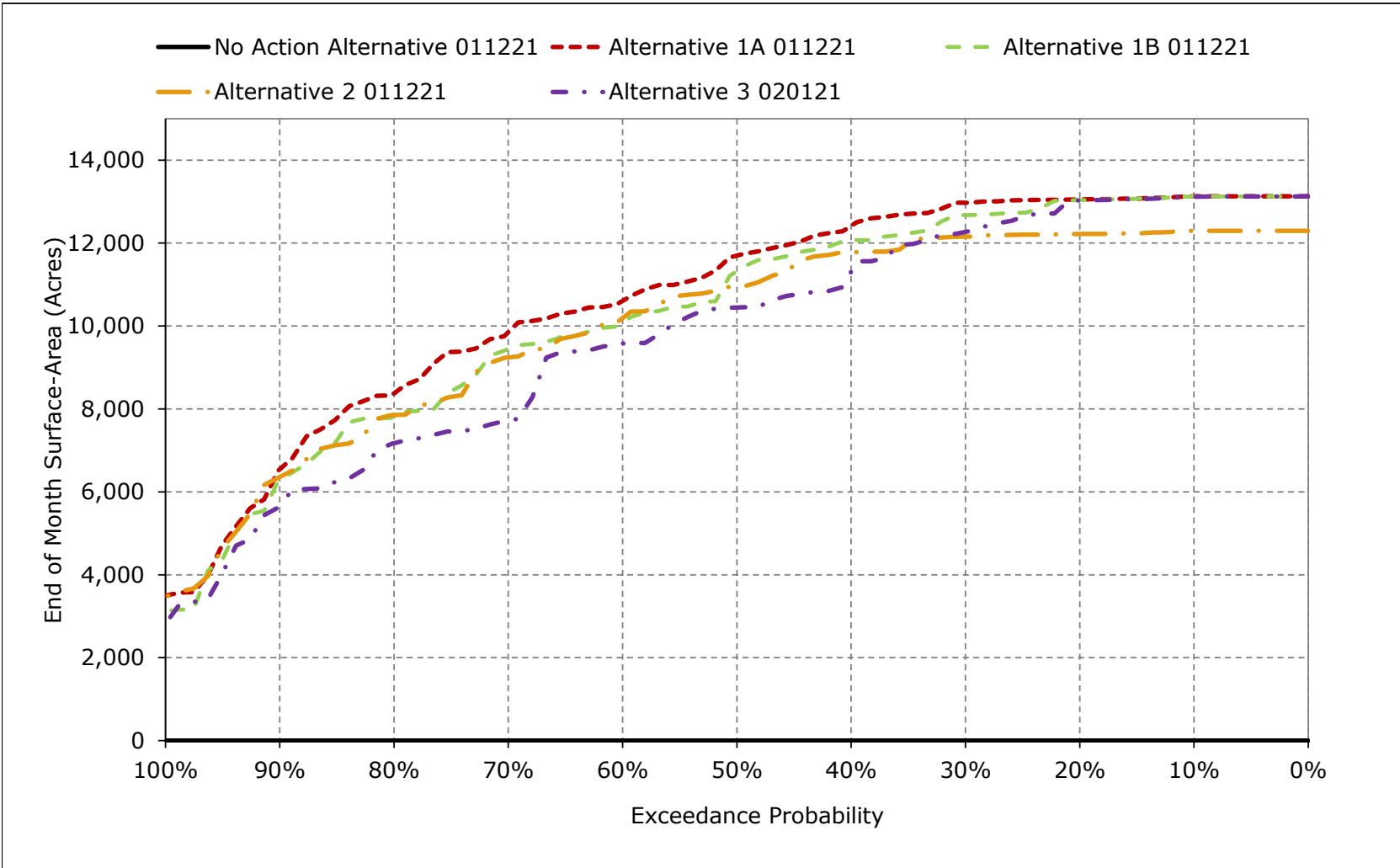
**Figure 5B1-9-7. Sites Reservoir Surface Area, April**



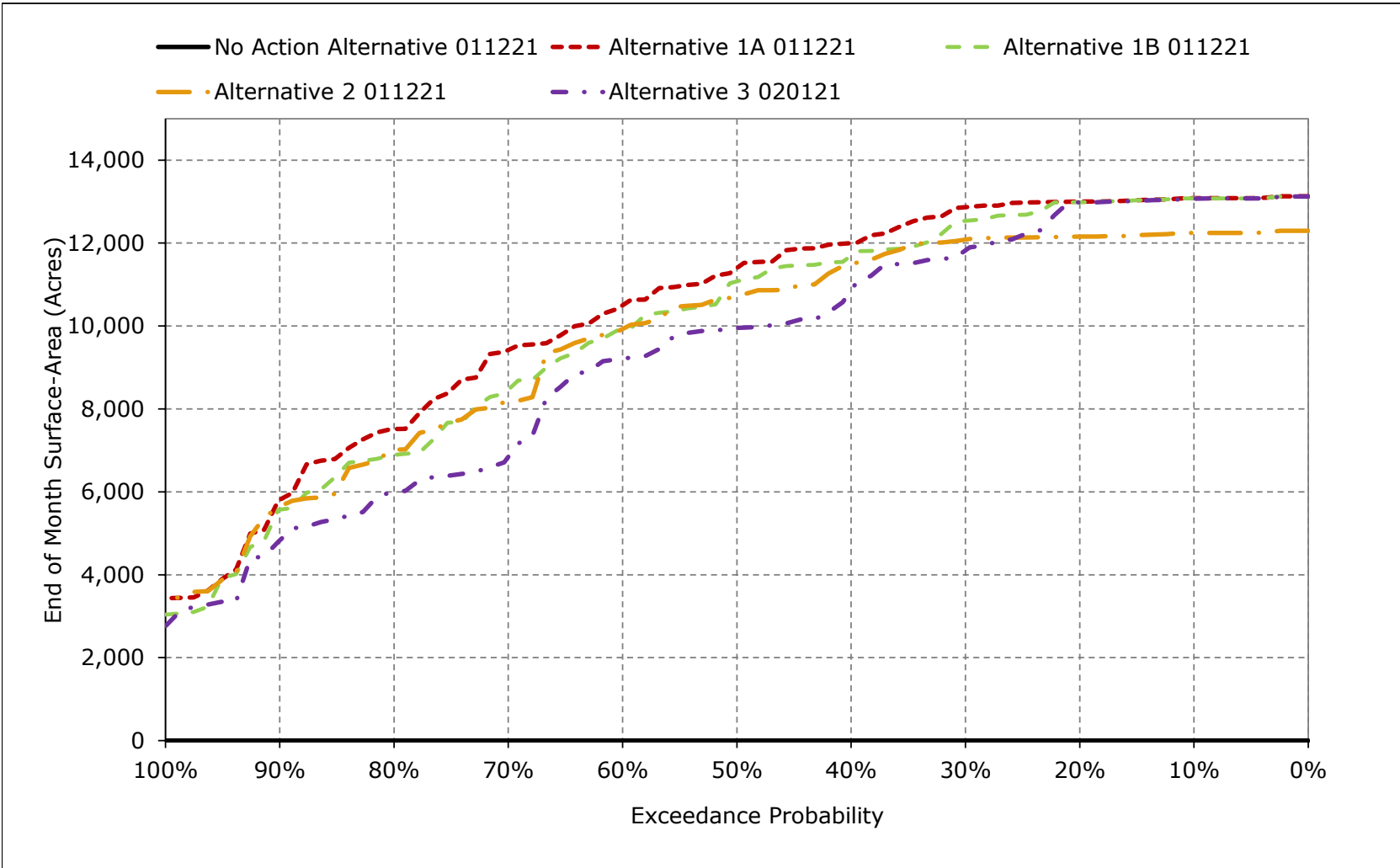
**Figure 5B1-9-8. Sites Reservoir Surface Area, May**



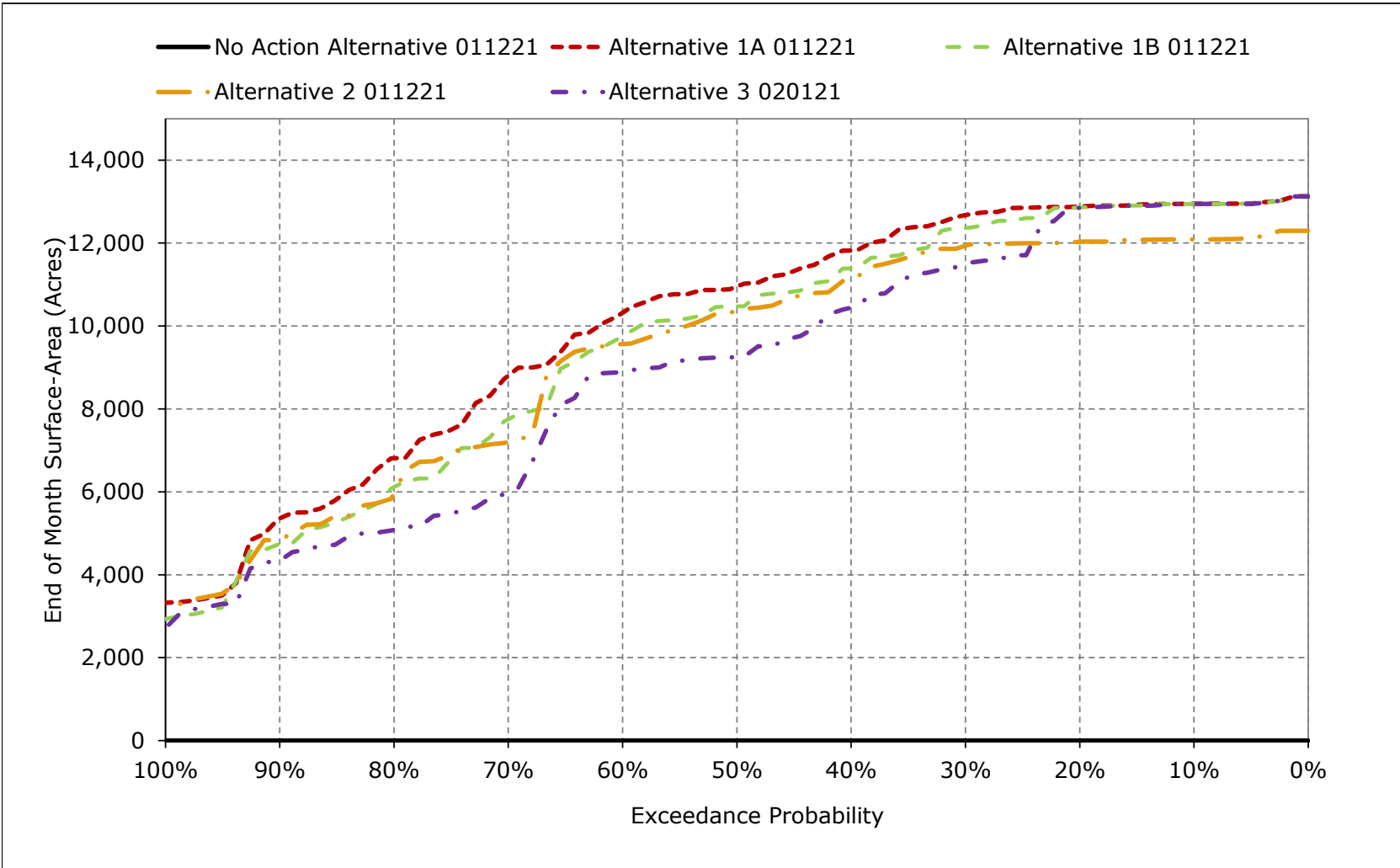
**Figure 5B1-9-9. Sites Reservoir Surface Area, June**



**Figure 5B1-9-10. Sites Reservoir Surface Area, July**



**Figure 5B1-9-11. Sites Reservoir Surface Area, August**



**Figure 5B1-9-12. Sites Reservoir Surface Area, September**

