# *APPENDIX D-5*

***MODEL OUTPUT RESULTS***

***FOR THE***

***NO PROJECT ALTERNATIVE (FUTURE LEVEL OF DEMAND) COMPARED TO THE EXISTING CONDITION***

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## *APPENDIX D-5. — NO PROJECT ALTERNATIVE (FUTURE LEVEL OF DEMAND) COMPARED TO THE EXISTING CONDITION*

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**Lake Mary Maximum Storage (AF),the Date on which Maximum Storage is Obtained, and the Date on which Minimum Storage Prior to September 15 is Obtained for Each of the 20-Years Included in the Evaluation Period under the No Project Alternative (Future Level of Demand) and the Existing Condition**

| Year | Runoff Year Type | Existing Condition | | | No Project (FLOD) Alt | | |
|---|---|---|---|---|---|---|---|
| | | Max Storage (AF) | Max Storage Date | Min Storage (2,935 AF) Prior to Sep 15 Date | Max Storage (AF) | Max Storage Date | Min Storage (2,935 AF) Prior to Sep 15 Date |
| 1988 | D | 3,260 | May 31 | Sep 14 | 3,260 | Jun 27 | Sep 14 |
| 1989 | N | 3,260 | May 31 | Sep 14 | 3,260 | Jun 22 | Aug 28 |
| 1990 | D | 3,260 | Jun 30 | — | 3,137 | Jul 4 | — |
| 1991 | N | 3,260 | Jul 2 | — | 3,221 | Jul 4 | — |
| 1992 | N | 3,260 | May 31 | — | 3,246 | Jul 5 | — |
| 1993 | W | 3,260 | Jun 11 | — | 3,212 [a] | Jun 30 | Sep 14 |
| 1994 | D | 3,260 | May 12 | — | 3,260 | Jun 18 | — |
| 1995 | W | 3,260 | May 13 | — | 3,208 [b] | Jun 30 | — |
| 1996 | N | 3,260 | Apr 1 | — | 3,260 | Apr 1 | — |
| 1997 | N | 3,260 | May 10 | — | 3,260 | Apr 19 | — |
| 1998 | N | 3,260 | Jun 3 | — | 3,260 | Apr 29 | — |
| 1999 | N | 3,260 | April 15 | — | 3,260 | Apr 19 | — |
| 2000 | N | 3,260 | May 9 | — | 3,260 | May 6 | — |
| 2001 | N | 3,260 | May 12 | — | 3,260 | May 15 | Aug 30 |
| 2002 | N | 3,260 | May 21 | — | 3,258 | Jun 30 | — |
| 2003 | N | 3,260 | May 30 | — | 3,258 | Jun 30 | — |
| 2004 | N | 3,260 | May 13 | — | 3,260 | Jun 27 | — |
| 2005 | W | 3,260 | May 27 | — | 3,213 [c] | Jun 30 | — |
| 2006 | W | 3,260 | May 5 | — | 3,260 | May 6 | — |
| 2007 | D | 3,260 | May 20 | — | 3,260 | May 3 | Aug 8 |

[a] Model output shows that maximum Lake Mary storage is 3,253 AF on Sep 8 in 1993.
[b] Model output shows that maximum Lake Mary storage is 3,260 AF on Sep 8 in 1995.
[c] Model output shows that maximum Lake Mary storage is 3,254 on Sep 8 in 2005.

**Monthly Averages of Daily District Diversions (AF) to the Lake Mary WTP by Runoff Year and Runoff Year Type for the 20-Year Evaluation Period under the No Project Alternative (Future Level of Demand)**

| Runoff Year | Runoff Year Type | Lake Mary WTP Diversions (AF) under the No Proj FLOD Alt | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Annual |
| 1988 | D | 13.2 | 74.4 | 133.2 | 303.0 | 130.0 | 140.7 | 117.0 | 98.1 | 107.7 | 105.0 | 24.2 | 84.6 | 1,331.0 |
| 1989 | N | 59.4 | 114.6 | 185.6 | 281.4 | 198.0 | 131.9 | 120.9 | 97.3 | 106.4 | 115.3 | 104.0 | 101.9 | 1,617.0 |
| 1990 | D | 0.0 | 0.0 | 0.0 | 149.5 | 108.5 | 201.1 | 106.2 | 124.4 | 51.2 | 0.2 | 6.4 | 29.3 | 776.8 |
| 1991 | N | 0.0 | 0.0 | 0.0 | 268.8 | 259.6 | 255.1 | 117.0 | 94.9 | 103.2 | 48.5 | 35.6 | 0.0 | 1,182.7 |
| 1992 | N | 0.0 | 0.0 | 0.0 | 117.0 | 143.9 | 206.6 | 169.2 | 64.8 | 28.9 | 106.2 | 46.9 | 43.5 | 926.9 |
| 1993 | W | 38.2 | 213.8 | 217.6 | 309.8 | 309.8 | 299.8 | 309.8 | 272.9 | 192.8 | 216.4 | 186.9 | 192.0 | 2,760.0 |
| 1994 | D | 15.4 | 78.5 | 182.5 | 187.5 | 86.6 | 168.3 | 222.1 | 214.4 | 144.0 | 258.8 | 153.0 | 222.9 | 1,934.1 |
| 1995 | W | 193.8 | 294.3 | 299.5 | 309.8 | 306.8 | 243.0 | 213.1 | 156.9 | 178.1 | 199.2 | 182.3 | 183.2 | 2,759.9 |
| 1996 | N | 195.5 | 295.1 | 299.8 | 309.8 | 306.5 | 244.2 | 214.6 | 157.9 | 179.3 | 200.6 | 173.9 | 182.7 | 2,760.0 |
| 1997 | N | 195.5 | 295.1 | 299.8 | 309.8 | 306.5 | 244.2 | 214.6 | 157.9 | 179.3 | 200.6 | 173.9 | 182.7 | 2,760.0 |
| 1998 | N | 195.5 | 295.1 | 299.8 | 309.8 | 306.5 | 244.2 | 214.6 | 157.9 | 179.3 | 200.6 | 173.9 | 182.7 | 2,760.0 |
| 1999 | N | 195.5 | 295.1 | 299.8 | 309.8 | 306.5 | 244.2 | 214.6 | 157.9 | 179.3 | 200.6 | 180.6 | 176.0 | 2,760.0 |
| 2000 | N | 195.5 | 295.1 | 299.8 | 309.8 | 306.5 | 244.2 | 214.6 | 157.9 | 179.3 | 200.6 | 173.9 | 182.7 | 2,760.0 |
| 2001 | N | 139.7 | 234.4 | 260.4 | 243.5 | 166.1 | 84.8 | 137.1 | 111.1 | 130.0 | 133.5 | 119.0 | 86.1 | 1,845.5 |
| 2002 | N | 0.0 | 217.3 | 299.8 | 309.8 | 248.8 | 159.7 | 116.5 | 113.2 | 131.2 | 127.1 | 101.8 | 86.0 | 1,911.2 |
| 2003 | N | 0.0 | 0.0 | 279.9 | 309.8 | 301.7 | 298.0 | 245.5 | 120.6 | 134.7 | 148.4 | 137.4 | 138.2 | 2,114.1 |
| 2004 | N | 204.4 | 309.8 | 299.8 | 307.9 | 238.2 | 124.4 | 216.0 | 178.2 | 121.9 | 233.5 | 132.5 | 105.0 | 2,471.7 |
| 2005 | W | 0.0 | 259.9 | 299.8 | 309.8 | 309.8 | 298.7 | 284.9 | 220.2 | 189.3 | 212.3 | 183.5 | 191.8 | 2,760.0 |
| 2006 | W | 195.5 | 295.1 | 299.8 | 309.8 | 306.5 | 244.2 | 214.6 | 157.9 | 179.3 | 200.6 | 173.9 | 182.7 | 2,760.0 |
| 2007 | D | 194.7 | 301.1 | 201.5 | 196.2 | 48.3 | 69.8 | 116.5 | 94.0 | 104.1 | 98.7 | 49.4 | 25.2 | 1,499.7 |
| Average | | 101.6 | 193.4 | 222.9 | 273.2 | 234.8 | 207.4 | 189.0 | 145.4 | 140.0 | 160.3 | 125.6 | 129.0 | 2,122.5 |

**Monthly Averages of Daily District Diversions (AF) to the Lake Mary WTP by Runoff Year and Runoff Year Type for the 20-Year Evaluation Period under the Existing Condition**

| Runoff Year | Runoff Year Type | Lake Mary WTP Diversions (AF) under the Existing Cond | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Annual |
| **1988** | **D** | 11.1 | 34.3 | 221.9 | 274.7 | 188.3 | 108.7 | 139.6 | 64.2 | 98.8 | 102.6 | 72.4 | 79.4 | 1,395.8 |
| **1989** | **N** | 92.9 | 153.1 | 291.4 | 227.8 | 208.5 | 136.5 | 134.5 | 75.3 | 108.8 | 147.2 | 142.3 | 34.6 | 1,752.9 |
| **1990** | **D** | 0.0 | 0.0 | 1.2 | 233.4 | 165.5 | 228.6 | 122.0 | 28.8 | 56.5 | 41.4 | 3.0 | 24.3 | 904.7 |
| **1991** | **N** | 0.0 | 0.0 | 7.1 | 261.5 | 235.8 | 118.7 | 51.7 | 29.1 | 48.1 | 61.0 | 113.2 | 99.9 | 1,026.0 |
| **1992** | **N** | 0.2 | 85.7 | 159.5 | 75.8 | 77.0 | 32.3 | 10.3 | 32.6 | 19.0 | 16.8 | 45.9 | 61.2 | 616.3 |
| **1993** | **W** | 27.0 | 128.7 | 215.5 | 270.1 | 291.9 | 158.1 | 155.7 | 137.4 | 142.2 | 140.8 | 137.3 | 154.6 | 1,959.3 |
| **1994** | **D** | 83.0 | 79.8 | 177.1 | 152.3 | 100.5 | 44.7 | 106.5 | 105.1 | 76.2 | 89.6 | 80.7 | 87.2 | 1,182.6 |
| **1995** | **W** | 91.4 | 115.6 | 162.7 | 230.0 | 208.5 | 189.2 | 197.6 | 132.7 | 137.4 | 146.8 | 150.3 | 164.5 | 1,926.8 |
| **1996** | **N** | 159.4 | 177.3 | 208.5 | 230.1 | 204.9 | 158.7 | 144.5 | 133.9 | 137.8 | 157.7 | 148.2 | 163.1 | 2,024.1 |
| **1997** | **N** | 133.9 | 236.9 | 228.9 | 224.5 | 227.7 | 186.6 | 167.6 | 141.8 | 148.0 | 162.4 | 147.6 | 157.5 | 2,163.5 |
| **1998** | **N** | 152.1 | 148.2 | 187.2 | 229.6 | 236.7 | 193.5 | 164.4 | 125.8 | 156.3 | 147.6 | 150.2 | 157.7 | 2,049.2 |
| **1999** | **N** | 144.0 | 174.5 | 213.6 | 229.9 | 210.8 | 187.2 | 143.2 | 118.4 | 129.7 | 112.3 | 140.4 | 147.4 | 1,951.6 |
| **2000** | **N** | 145.4 | 184.5 | 199.1 | 205.1 | 207.5 | 196.4 | 161.5 | 126.7 | 138.7 | 114.6 | 95.2 | 118.0 | 1,892.7 |
| **2001** | **N** | 111.5 | 185.5 | 213.1 | 187.2 | 102.7 | 57.7 | 83.7 | 43.4 | 89.9 | 82.1 | 54.0 | 9.9 | 1,220.7 |
| **2002** | **N** | 35.9 | 196.0 | 222.7 | 249.3 | 170.4 | 78.3 | 39.3 | 72.0 | 114.4 | 95.8 | 53.6 | 26.6 | 1,354.3 |
| **2003** | **N** | 49.6 | 137.3 | 148.0 | 172.6 | 141.2 | 128.1 | 107.7 | 108.3 | 89.8 | 102.9 | 71.0 | 103.9 | 1,360.4 |
| **2004** | **N** | 143.0 | 210.1 | 238.1 | 229.7 | 156.6 | 108.3 | 87.9 | 110.4 | 43.3 | 52.6 | 32.4 | 5.0 | 1,417.4 |
| **2005** | **W** | 5.1 | 61.0 | 256.0 | 258.6 | 272.3 | 264.0 | 191.7 | 129.3 | 139.7 | 173.4 | 122.9 | 103.0 | 1,977.0 |
| **2006** | **W** | 147.2 | 147.8 | 260.2 | 270.9 | 284.5 | 220.5 | 136.8 | 122.5 | 164.8 | 181.2 | 159.7 | 122.1 | 2,218.2 |
| **2007** | **D** | 140.5 | 191.3 | 136.2 | 43.6 | 9.6 | 4.4 | 58.9 | 42.9 | 18.1 | 69.3 | 37.4 | 42.0 | 794.1 |
| **Average** | | 83.7 | 132.4 | 187.4 | 212.8 | 185.1 | 140.0 | 120.3 | 94.0 | 102.9 | 109.9 | 97.9 | 93.1 | 1,559.4 |

**Differences in Monthly Averages of Daily District Diversions (AF) to the Lake Mary WTP by Runoff Year and Runoff Year Type for the 20-Year Evaluation Period under the No Project Alternative (Future Level of Demand) Relative to the Existing Condition. Positive Values Indicate that the No Project Alternative (Future Level of Demand) District Diversion Values are Higher than the Existing Condition Values**

| Runoff Year | Runoff Year Type | Difference in Lake Mary WTP Diversions (AF) (No Proj FLOD Alt - Existing Cond) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Annual |
| 1988 | D | 2.1 | 40.1 | -88.8 | 28.3 | -58.3 | 32.0 | -22.5 | 33.9 | 8.9 | 2.4 | -48.2 | 5.2 | -64.9 |
| 1989 | N | -33.4 | -38.5 | -105.8 | 53.7 | -10.5 | -4.5 | -13.6 | 22.0 | -2.3 | -31.8 | -38.3 | 67.3 | -135.9 |
| 1990 | D | 0.0 | 0.0 | -1.2 | -83.9 | -57.1 | -27.5 | -15.8 | 95.6 | -5.3 | -41.2 | 3.4 | 5.1 | -127.8 |
| 1991 | N | 0.0 | 0.0 | -7.1 | 7.3 | 23.8 | 136.4 | 65.3 | 65.9 | 55.1 | -12.4 | -77.6 | -99.9 | 156.7 |
| 1992 | N | -0.2 | -85.7 | -159.5 | 41.2 | 66.9 | 174.3 | 158.8 | 32.2 | 9.9 | 89.4 | 0.9 | -17.7 | 310.6 |
| 1993 | W | 11.2 | 85.1 | 2.1 | 39.8 | 17.9 | 141.7 | 154.1 | 135.5 | 50.7 | 75.6 | 49.6 | 37.4 | 800.7 |
| 1994 | D | -67.6 | -1.4 | 5.4 | 35.2 | -13.9 | 123.6 | 115.7 | 109.4 | 67.8 | 169.2 | 72.3 | 135.7 | 751.5 |
| 1995 | W | 102.5 | 178.6 | 136.8 | 79.8 | 98.4 | 53.8 | 15.4 | 24.2 | 40.7 | 52.4 | 31.9 | 18.7 | 833.1 |
| 1996 | N | 36.1 | 117.8 | 91.3 | 79.8 | 101.6 | 85.5 | 70.2 | 24.0 | 41.5 | 42.9 | 25.7 | 19.7 | 735.9 |
| 1997 | N | 61.6 | 58.1 | 70.9 | 85.3 | 78.8 | 57.6 | 47.0 | 16.1 | 31.3 | 38.1 | 26.3 | 25.2 | 596.5 |
| 1998 | N | 43.4 | 146.9 | 112.7 | 80.3 | 69.8 | 50.7 | 50.2 | 32.1 | 23.0 | 53.0 | 23.8 | 25.0 | 710.8 |
| 1999 | N | 51.5 | 120.5 | 86.2 | 80.0 | 95.6 | 57.0 | 71.4 | 39.5 | 49.6 | 88.3 | 40.2 | 28.7 | 808.4 |
| 2000 | N | 50.1 | 110.6 | 100.7 | 104.7 | 99.0 | 47.8 | 53.2 | 31.1 | 40.6 | 85.9 | 78.7 | 64.7 | 867.3 |
| 2001 | N | 28.2 | 48.9 | 47.3 | 56.3 | 63.3 | 27.1 | 53.4 | 67.7 | 40.1 | 51.4 | 65.0 | 76.2 | 624.8 |
| 2002 | N | -35.9 | 21.3 | 77.1 | 60.5 | 78.4 | 81.3 | 77.3 | 41.2 | 16.8 | 31.3 | 48.3 | 59.4 | 556.9 |
| 2003 | N | -49.6 | -137.3 | 131.9 | 137.3 | 160.5 | 169.8 | 137.8 | 12.3 | 44.9 | 45.5 | 66.4 | 34.2 | 753.7 |
| 2004 | N | 61.4 | 99.8 | 61.7 | 78.2 | 81.6 | 16.2 | 128.1 | 67.8 | 78.5 | 180.9 | 100.1 | 100.0 | 1,054.3 |
| 2005 | W | -5.1 | 198.9 | 43.9 | 51.3 | 37.5 | 34.7 | 93.3 | 90.8 | 49.5 | 38.9 | 60.6 | 88.8 | 783.0 |
| 2006 | W | 48.3 | 147.2 | 39.6 | 38.9 | 21.9 | 23.7 | 77.8 | 35.4 | 14.5 | 19.4 | 14.2 | 60.7 | 541.8 |
| 2007 | D | 54.2 | 109.9 | 65.4 | 152.6 | 38.7 | 65.4 | 57.6 | 51.1 | 86.1 | 29.5 | 12.0 | -16.8 | 705.6 |
| Average | | 17.9 | 61.0 | 35.5 | 60.3 | 49.7 | 67.3 | 68.7 | 51.4 | 37.1 | 50.4 | 27.8 | 35.9 | 563.2 |

**Monthly Averages of Daily Flows (cfs) at the OMR Gage by Runoff Year and Runoff Year Type for the 20-Year Evaluation Period under the No Project Alternative (Future Level of Demand)**

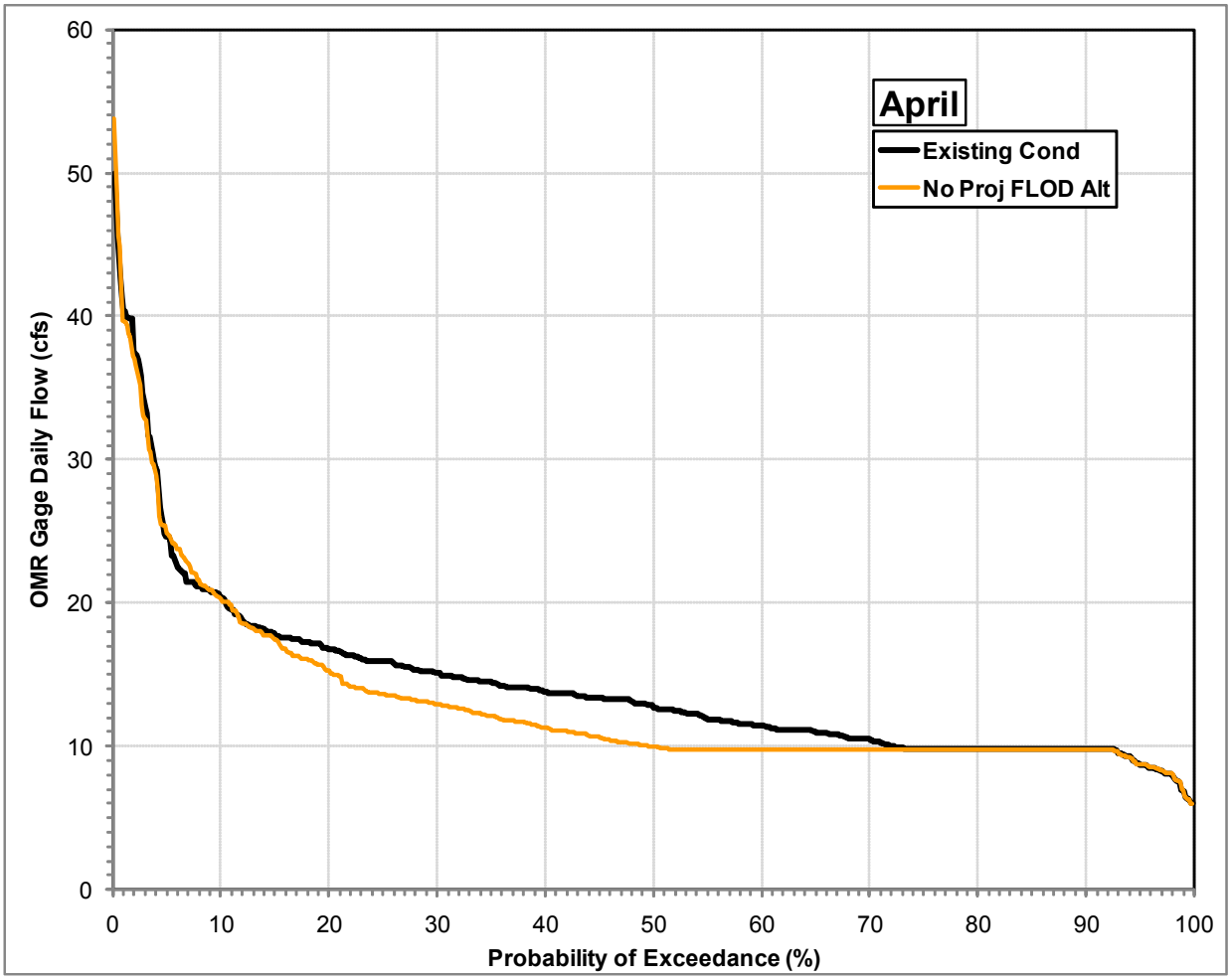
| Runoff Year | Runoff Year Type | Average OMR Gage Daily Flow (cfs) under the No Proj FLOD Alt | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Annual |
| 1988 | D | 10.5 | 25.9 | 23.8 | 11.4 | 6.6 | 5.4 | 4.9 | 7.0 | 6.0 | 6.4 | 5.9 | 8.9 | 10.2 |
| 1989 | N | 16.6 | 26.4 | 25.8 | 10.3 | 7.1 | 6.5 | 6.3 | 7.4 | 6.0 | 6.3 | 6.2 | 7.0 | 11.0 |
| 1990 | D | 11.0 | 18.3 | 21.9 | 9.4 | 7.0 | 5.7 | 5.0 | 5.9 | 5.2 | 5.2 | 5.9 | 7.6 | 9.0 |
| 1991 | N | 8.5 | 17.6 | 48.9 | 18.8 | 7.7 | 5.5 | 5.6 | 6.7 | 5.8 | 5.7 | 5.8 | 6.4 | 11.9 |
| 1992 | N | 12.3 | 25.6 | 15.4 | 9.2 | 6.2 | 5.1 | 4.9 | 5.5 | 5.0 | 6.5 | 5.8 | 7.4 | 9.1 |
| 1993 | W | 11.0 | 49.9 | 85.4 | 56.4 | 17.4 | 7.8 | 7.2 | 7.0 | 7.2 | 6.5 | 7.0 | 7.8 | 22.6 |
| 1994 | D | 12.7 | 27.9 | 31.7 | 9.6 | 6.5 | 6.1 | 6.2 | 6.7 | 6.0 | 7.3 | 6.0 | 10.1 | 11.4 |
| 1995 | W | 12.6 | 38.2 | 121.3 | 149.0 | 54.4 | 20.8 | 11.9 | 9.0 | 12.7 | 12.3 | 15.2 | 12.5 | 39.3 |
| 1996 | N | 24.4 | 84.8 | 98.5 | 43.2 | 16.4 | 9.4 | 8.9 | 14.5 | 13.6 | 29.4 | 11.4 | 13.2 | 30.7 |
| 1997 | N | 23.5 | 73.9 | 71.5 | 26.3 | 12.7 | 10.6 | 6.6 | 7.6 | 9.1 | 9.3 | 11.0 | 11.2 | 22.8 |
| 1998 | N | 11.4 | 21.0 | 97.8 | 128.0 | 42.4 | 22.9 | 10.4 | 11.7 | 9.2 | 8.1 | 9.0 | 8.8 | 31.9 |
| 1999 | N | 11.5 | 48.2 | 79.5 | 29.3 | 11.9 | 8.3 | 7.5 | 7.6 | 6.0 | 7.8 | 8.7 | 8.9 | 19.6 |
| 2000 | N | 13.0 | 59.0 | 58.3 | 16.2 | 9.4 | 6.2 | 7.2 | 7.1 | 6.8 | 6.6 | 6.2 | 8.8 | 17.1 |
| 2001 | N | 11.1 | 60.2 | 29.8 | 11.5 | 7.1 | 5.5 | 5.9 | 6.8 | 8.4 | 6.5 | 6.1 | 7.6 | 13.9 |
| 2002 | N | 14.2 | 29.7 | 44.1 | 14.0 | 7.3 | 5.7 | 5.7 | 9.6 | 7.0 | 6.5 | 6.0 | 7.1 | 13.1 |
| 2003 | N | 10.2 | 40.1 | 69.8 | 18.2 | 8.0 | 5.9 | 5.5 | 6.2 | 7.4 | 6.4 | 6.3 | 9.6 | 16.1 |
| 2004 | N | 11.4 | 33.4 | 33.1 | 11.5 | 7.1 | 6.0 | 6.8 | 6.6 | 5.9 | 6.8 | 6.1 | 7.8 | 11.9 |
| 2005 | W | 10.5 | 68.4 | 108.4 | 75.8 | 20.0 | 8.5 | 7.7 | 7.1 | 12.2 | 9.9 | 7.1 | 8.8 | 28.8 |
| 2006 | W | 14.4 | 93.5 | 153.4 | 75.3 | 18.5 | 11.5 | 10.4 | 8.8 | 7.9 | 6.8 | 6.8 | 8.5 | 34.8 |
| 2007 | D | 10.1 | 28.2 | 22.0 | 8.4 | 5.1 | 5.1 | 5.7 | 6.2 | 6.5 | 7.8 | 6.0 | 7.3 | 9.9 |
| Average | | 13.0 | 43.5 | 62.0 | 36.6 | 13.9 | 8.4 | 7.0 | 7.7 | 7.7 | 8.4 | 7.4 | 8.8 | 18.8 |

**Monthly Averages of Daily Flows (cfs) at the OMR Gage by Runoff Year and Runoff Year Type for the 20-Year Evaluation Period under the Existing Condition**

| Runoff Year | Runoff Year Type | Average OMR Gage Daily Flow (cfs) under the Existing Cond | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Annual |
| **1988** | **D** | 10.9 | 24.4 | 27.6 | 11.6 | 6.9 | 5.5 | 5.1 | 7.2 | 5.9 | 6.5 | 5.9 | 9.0 | 10.5 |
| **1989** | **N** | 12.9 | 26.9 | 28.4 | 10.7 | 7.1 | 7.0 | 6.4 | 7.7 | 6.0 | 6.3 | 6.1 | 6.9 | 11.0 |
| **1990** | **D** | 10.1 | 18.3 | 23.4 | 9.7 | 7.2 | 6.0 | 5.3 | 6.3 | 5.3 | 5.2 | 5.9 | 7.7 | 9.2 |
| **1991** | **N** | 8.4 | 16.2 | 53.3 | 19.8 | 8.8 | 6.9 | 6.1 | 7.6 | 6.0 | 5.7 | 5.7 | 6.4 | 12.5 |
| **1992** | **N** | 9.6 | 26.7 | 17.4 | 10.9 | 6.6 | 5.6 | 5.3 | 6.3 | 5.4 | 8.0 | 6.2 | 7.7 | 9.7 |
| **1993** | **W** | 10.4 | 53.0 | 91.3 | 57.5 | 17.6 | 9.8 | 7.5 | 7.4 | 7.8 | 6.7 | 7.5 | 7.8 | 23.8 |
| **1994** | **D** | 12.0 | 33.9 | 35.8 | 10.4 | 7.0 | 6.2 | 6.4 | 7.6 | 7.1 | 10.1 | 7.3 | 12.4 | 13.0 |
| **1995** | **W** | 15.9 | 44.6 | 129.6 | 151.0 | 55.9 | 22.2 | 11.8 | 9.4 | 13.4 | 13.1 | 15.7 | 12.8 | 41.4 |
| **1996** | **N** | 25.0 | 88.4 | 101.4 | 44.9 | 17.6 | 10.0 | 8.8 | 14.9 | 14.3 | 30.1 | 11.9 | 13.5 | 31.8 |
| **1997** | **N** | 25.9 | 76.8 | 73.8 | 28.1 | 13.6 | 11.2 | 7.0 | 7.8 | 9.6 | 10.0 | 11.5 | 11.7 | 24.0 |
| **1998** | **N** | 13.3 | 25.7 | 102.0 | 130.1 | 43.4 | 23.3 | 11.0 | 12.2 | 9.5 | 8.8 | 9.4 | 9.2 | 33.3 |
| **1999** | **N** | 12.6 | 52.6 | 83.5 | 31.4 | 13.5 | 9.3 | 7.6 | 8.3 | 6.4 | 8.4 | 9.4 | 9.3 | 21.0 |
| **2000** | **N** | 16.2 | 63.5 | 61.8 | 18.3 | 10.6 | 7.1 | 7.3 | 7.6 | 7.2 | 7.1 | 7.3 | 9.3 | 18.6 |
| **2001** | **N** | 13.5 | 64.0 | 30.9 | 12.3 | 7.1 | 5.6 | 6.0 | 7.5 | 9.0 | 6.8 | 6.7 | 8.1 | 14.9 |
| **2002** | **N** | 16.3 | 32.8 | 50.0 | 14.7 | 7.3 | 5.9 | 5.8 | 10.1 | 7.2 | 6.6 | 6.1 | 7.3 | 14.2 |
| **2003** | **N** | 11.3 | 41.4 | 77.0 | 20.6 | 8.9 | 6.7 | 5.5 | 6.3 | 7.9 | 6.5 | 7.0 | 9.9 | 17.4 |
| **2004** | **N** | 14.8 | 38.7 | 38.3 | 12.7 | 7.2 | 6.0 | 8.0 | 7.3 | 6.6 | 8.9 | 7.3 | 8.6 | 13.7 |
| **2005** | **W** | 13.4 | 74.7 | 114.4 | 76.8 | 20.3 | 8.9 | 7.6 | 7.7 | 13.0 | 10.5 | 8.0 | 9.9 | 30.6 |
| **2006** | **W** | 17.9 | 98.9 | 156.2 | 76.6 | 18.8 | 11.5 | 10.8 | 9.4 | 8.2 | 6.8 | 6.9 | 9.2 | 36.0 |
| **2007** | **D** | 12.9 | 30.7 | 23.2 | 9.1 | 5.7 | 5.7 | 6.0 | 6.3 | 7.2 | 8.2 | 6.5 | 7.5 | 10.8 |
| **Average** | | 14.2 | 46.6 | 66.0 | 37.9 | 14.5 | 9.0 | 7.3 | 8.2 | 8.1 | 9.0 | 7.9 | 9.2 | 19.9 |

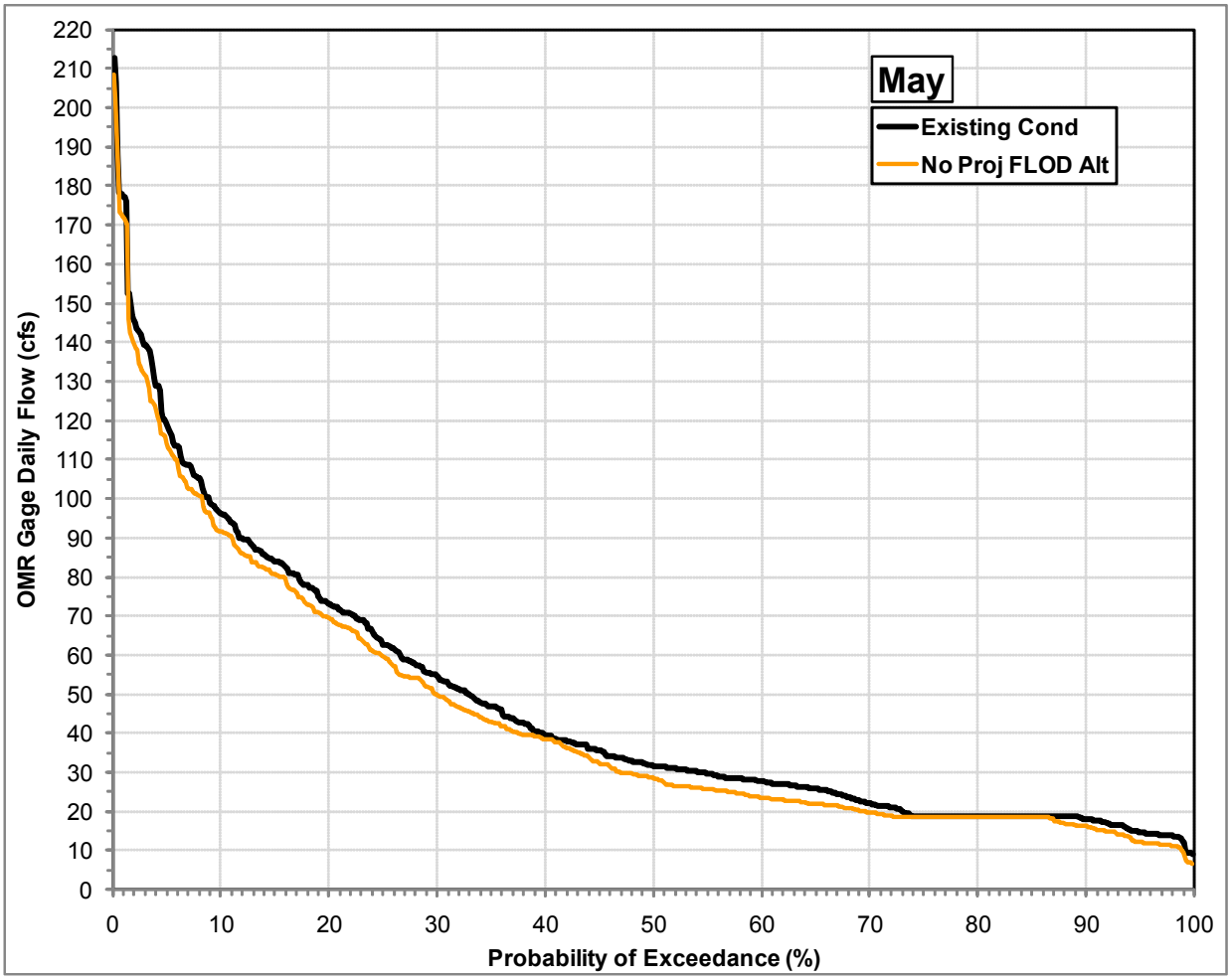
**Differences in Monthly Averages of Daily Flows (cfs) at the OMR Gage by Runoff Year and Runoff Year Type for the 20-Year Evaluation Period under the No Project Alternative (Future Level of Demand) Relative to the Existing Condition. Positive Values Indicate that the No Project Alternative (Future Level of Demand) Flow Values are Higher than the Existing Condition Values**

| Runoff Year | Runoff Year Type | Average OMR Gage Daily Flow (cfs) Differences (No Proj FLOD Alt - Existing Cond) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Annual |
| 1988 | D | -0.4 | 1.4 | -3.8 | -0.3 | -0.3 | -0.1 | -0.2 | -0.2 | 0.1 | 0.0 | 0.0 | -0.1 | -0.3 |
| 1989 | N | 3.7 | -0.4 | -2.6 | -0.4 | 0.0 | -0.5 | -0.1 | -0.3 | -0.1 | 0.1 | 0.1 | 0.1 | 0.0 |
| 1990 | D | 0.9 | 0.0 | -1.5 | -0.3 | -0.1 | -0.3 | -0.2 | -0.4 | -0.1 | 0.0 | -0.1 | -0.1 | -0.2 |
| 1991 | N | 0.0 | 1.4 | -4.4 | -1.0 | -1.0 | -1.4 | -0.5 | -0.9 | -0.2 | 0.0 | 0.1 | 0.0 | -0.7 |
| 1992 | N | 2.7 | -1.1 | -2.0 | -1.7 | -0.3 | -0.5 | -0.4 | -0.8 | -0.4 | -1.5 | -0.4 | -0.3 | -0.6 |
| 1993 | W | 0.6 | -3.1 | -5.9 | -1.2 | -0.2 | -2.0 | -0.3 | -0.4 | -0.5 | -0.2 | -0.5 | 0.0 | -1.1 |
| 1994 | D | 0.7 | -6.0 | -4.1 | -0.9 | -0.5 | -0.1 | -0.3 | -0.9 | -1.1 | -2.8 | -1.3 | -2.3 | -1.6 |
| 1995 | W | -3.3 | -6.4 | -8.3 | -2.0 | -1.5 | -1.4 | 0.1 | -0.4 | -0.7 | -0.8 | -0.5 | -0.3 | -2.1 |
| 1996 | N | -0.6 | -3.6 | -2.9 | -1.7 | -1.2 | -0.5 | 0.1 | -0.4 | -0.7 | -0.7 | -0.5 | -0.3 | -1.1 |
| 1997 | N | -2.4 | -3.0 | -2.3 | -1.8 | -0.9 | -0.6 | -0.4 | -0.2 | -0.5 | -0.6 | -0.5 | -0.4 | -1.1 |
| 1998 | N | -1.9 | -4.7 | -4.2 | -2.1 | -1.0 | -0.4 | -0.6 | -0.5 | -0.3 | -0.7 | -0.4 | -0.3 | -1.4 |
| 1999 | N | -1.1 | -4.4 | -3.9 | -2.0 | -1.5 | -1.0 | -0.1 | -0.7 | -0.3 | -0.7 | -0.7 | -0.4 | -1.4 |
| 2000 | N | -3.2 | -4.5 | -3.4 | -2.1 | -1.1 | -0.9 | -0.1 | -0.5 | -0.4 | -0.6 | -1.1 | -0.5 | -1.5 |
| 2001 | N | -2.4 | -3.8 | -1.1 | -0.8 | 0.0 | -0.1 | -0.1 | -0.7 | -0.6 | -0.3 | -0.6 | -0.5 | -0.9 |
| 2002 | N | -2.1 | -3.1 | -5.9 | -0.7 | 0.0 | -0.2 | -0.2 | -0.5 | -0.2 | -0.1 | -0.1 | -0.2 | -1.1 |
| 2003 | N | -1.1 | -1.3 | -7.3 | -2.4 | -0.9 | -0.8 | 0.0 | -0.1 | -0.6 | -0.1 | -0.7 | -0.3 | -1.3 |
| 2004 | N | -3.4 | -5.3 | -5.2 | -1.2 | -0.1 | 0.0 | -1.2 | -0.7 | -0.7 | -2.2 | -1.2 | -0.8 | -1.8 |
| 2005 | W | -2.9 | -6.3 | -6.0 | -1.0 | -0.3 | -0.3 | 0.1 | -0.6 | -0.8 | -0.6 | -0.9 | -1.1 | -1.7 |
| 2006 | W | -3.5 | -5.4 | -2.8 | -1.3 | -0.3 | 0.0 | -0.4 | -0.6 | -0.2 | -0.1 | -0.1 | -0.7 | -1.3 |
| 2007 | D | -2.8 | -2.4 | -1.2 | -0.7 | -0.6 | -0.6 | -0.3 | -0.1 | -0.7 | -0.4 | -0.5 | -0.2 | -0.9 |
| Average | | -1.1 | -3.1 | -3.9 | -1.3 | -0.6 | -0.6 | -0.3 | -0.5 | -0.4 | -0.6 | -0.5 | -0.4 | -1.1 |



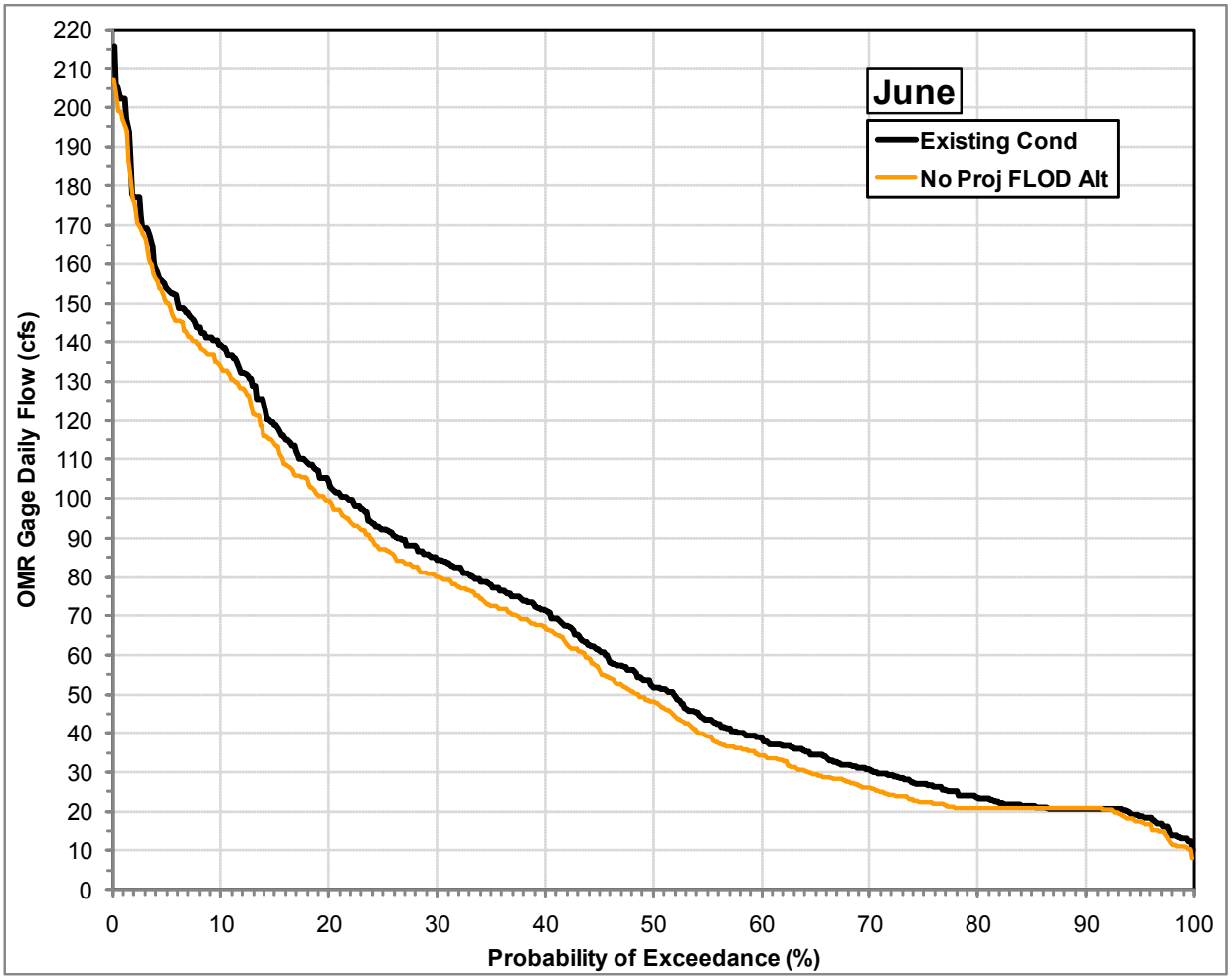

| Probability of Exceedance (%) | April OMR Gage Daily Flow (cfs) | |
|---|---|---|
| | No Proj FLOD Alt | Existing Cond |
| 5 | 24.9 | 24.6 |
| 10 | 20.3 | 20.3 |
| 20 | 15.3 | 16.8 |
| 25 | 13.7 | 16.0 |
| 50 | 10.0 | 12.7 |
| 75 | 9.8 | 9.8 |
| 80 | 9.8 | 9.8 |
| 90 | 9.8 | 9.8 |
| 95 | 8.7 | 8.7 |

**Cumulative Exceedance Probability Distribution of Daily Flows (cfs) at the OMR Gage under the No Project Alternative (Future Level of Demand) and the Existing Condition during April for the 20-Year Evaluation Period**



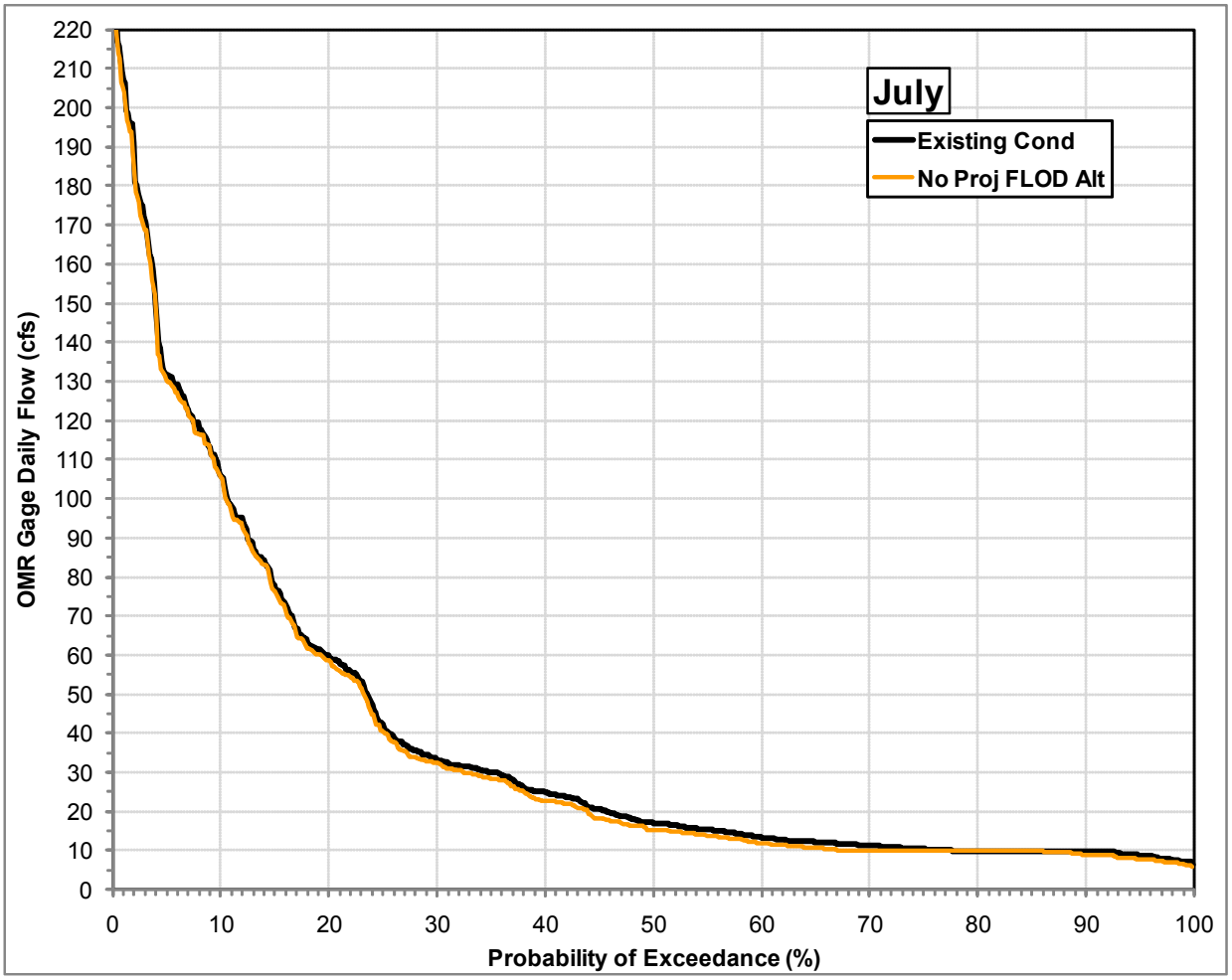

| Probability of Exceedance (%) | May OMR Gage Daily Flow (cfs) | |
|---|---|---|
| | No Proj FLOD Alt | Existing Cond |
| 5 | 114.1 | 117.8 |
| 10 | 91.6 | 95.9 |
| 20 | 69.5 | 72.9 |
| 25 | 59.8 | 62.7 |
| 50 | 28.5 | 31.7 |
| 75 | 18.7 | 18.7 |
| 80 | 18.7 | 18.7 |
| 90 | 16.2 | 18.1 |
| 95 | 12.2 | 14.7 |

**Cumulative Exceedance Probability Distribution of Daily Flows (cfs) at the OMR Gage under the No Project Alternative (Future Level of Demand) and the Existing Condition during May for the 20-Year Evaluation Period**



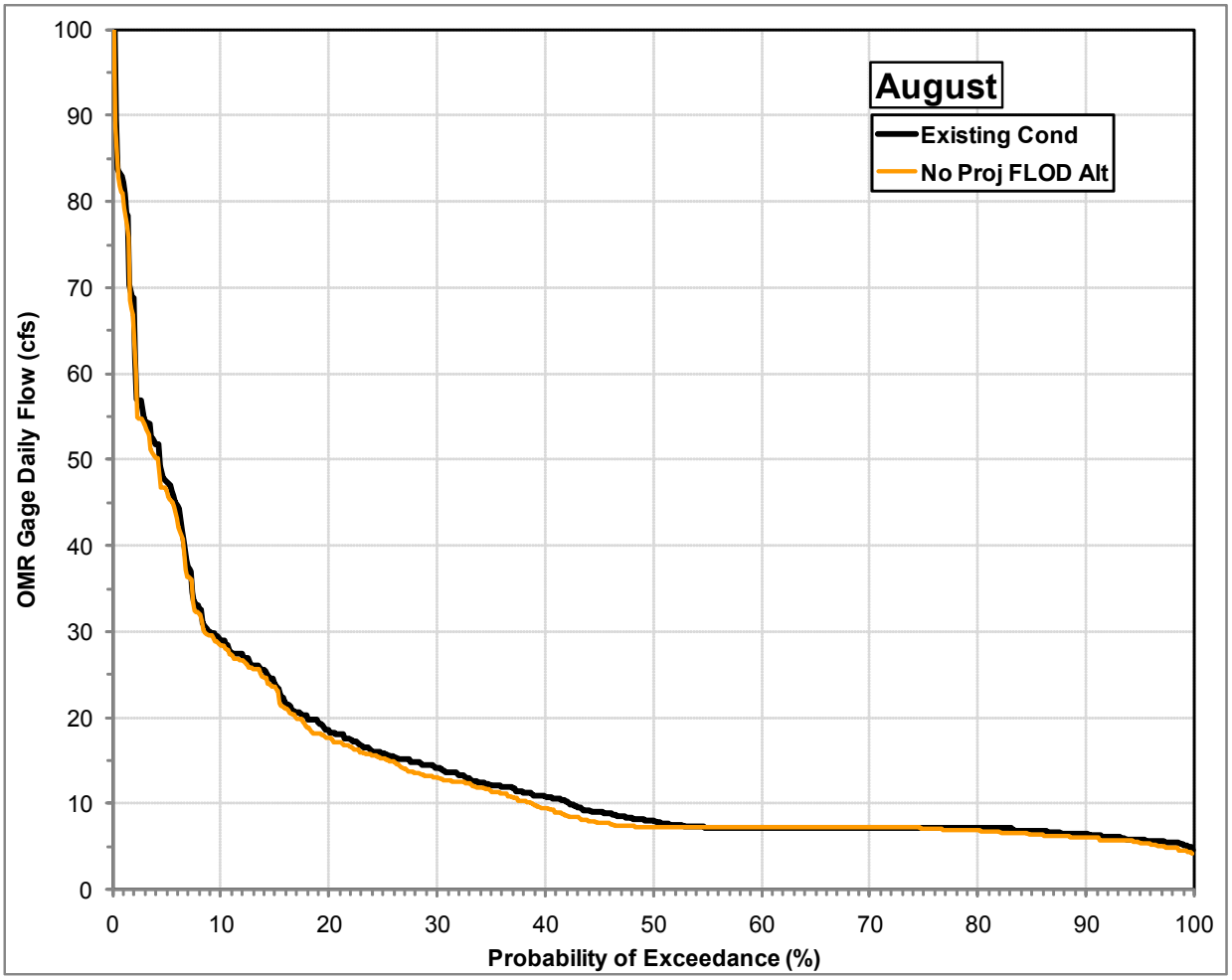

| Probability of Exceedance (%) | June OMR Gage Daily Flow (cfs) | |
|---|---|---|
| | No Proj FLOD Alt | Existing Cond |
| 5 | 149.9 | 153.2 |
| 10 | 133.4 | 138.6 |
| 20 | 99.3 | 103.0 |
| 25 | 87.1 | 92.0 |
| 50 | 48.0 | 51.9 |
| 75 | 22.4 | 27.0 |
| 80 | 20.8 | 23.4 |
| 90 | 20.8 | 20.8 |
| 95 | 17.5 | 18.9 |

**Cumulative Exceedance Probability Distribution of Daily Flows (cfs) at the OMR Gage under the No Project Alternative (Future Level of Demand) and the Existing Condition during June for the 20-Year Evaluation Period**



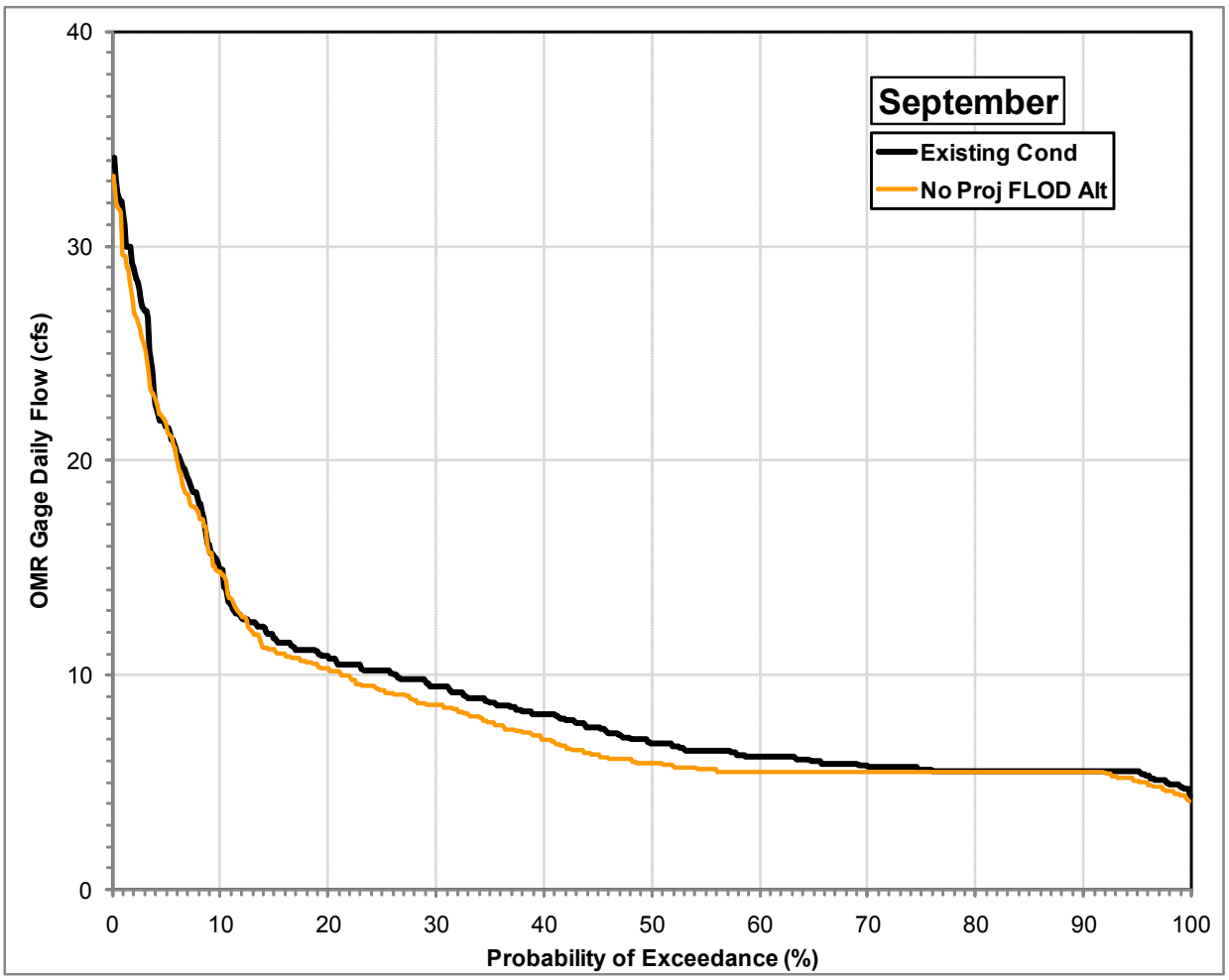

| Probability of Exceedance (%) | July OMR Gage Daily Flow (cfs) | |
|---|---|---|
| | No Proj FLOD Alt | Existing Cond |
| 5 | 130.1 | 131.5 |
| 10 | 105.4 | 105.4 |
| 20 | 58.6 | 59.4 |
| 25 | 40.5 | 41.3 |
| 50 | 15.4 | 17.1 |
| 75 | 9.9 | 10.4 |
| 80 | 9.9 | 9.9 |
| 90 | 9.0 | 9.9 |
| 95 | 7.9 | 8.7 |

**Cumulative Exceedance Probability Distribution of Daily Flows (cfs) at the OMR Gage under the No Project Alternative (Future Level of Demand) and the Existing Condition during July for the 20-Year Evaluation Period**



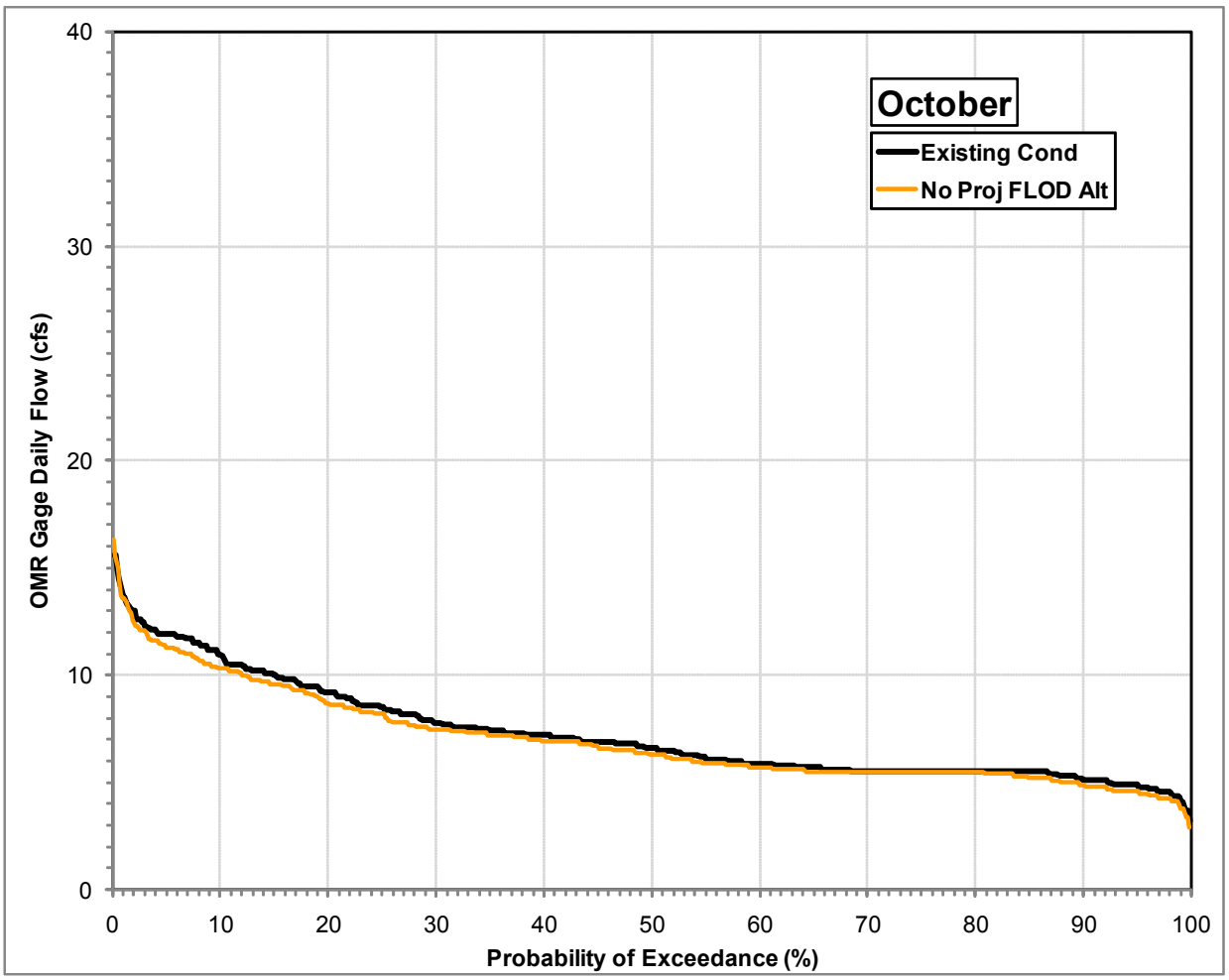

| Probability of Exceedance (%) | August OMR Gage Daily Flow (cfs) | |
|---|---|---|
| | No Proj FLOD Alt | Existing Cond |
| 5 | 46.4 | 47.1 |
| 10 | 28.4 | 29.0 |
| 20 | 17.7 | 18.2 |
| 25 | 15.2 | 15.8 |
| 50 | 7.2 | 8.0 |
| 75 | 7.1 | 7.2 |
| 80 | 6.9 | 7.2 |
| 90 | 6.1 | 6.5 |
| 95 | 5.4 | 5.8 |

**Cumulative Exceedance Probability Distribution of Daily Flows (cfs) at the OMR Gage under the No Project Alternative (Future Level of Demand) and the Existing Condition during August for the 20-Year Evaluation Period**



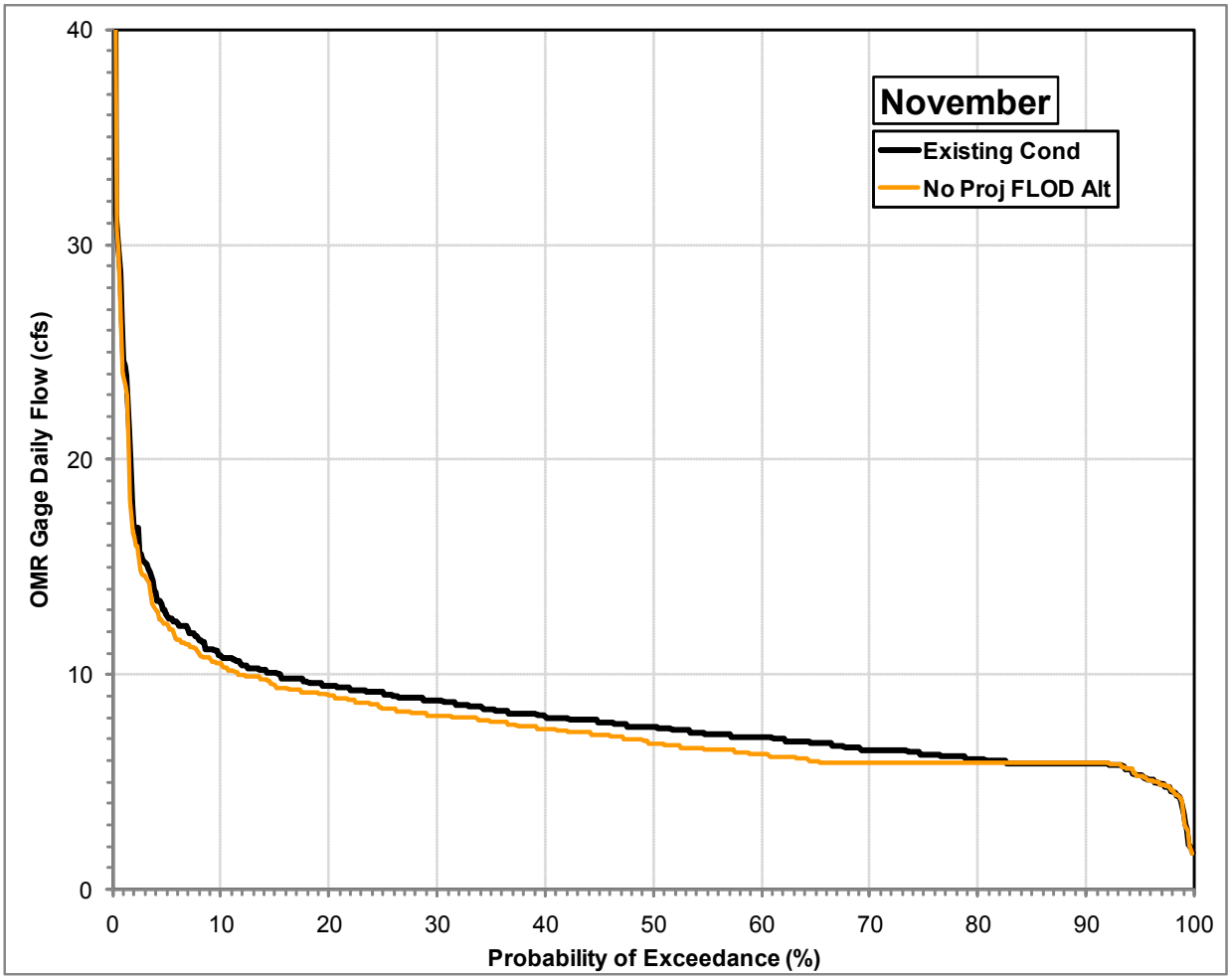

| Probability of Exceedance (%) | September OMR Gage Daily Flow (cfs) | |
|---|---|---|
| | No Proj FLOD Alt | Existing Cond |
| 5 | 21.7 | 21.5 |
| 10 | 14.8 | 14.9 |
| 20 | 10.3 | 10.8 |
| 25 | 9.3 | 10.2 |
| 50 | 5.9 | 6.8 |
| 75 | 5.5 | 5.6 |
| 80 | 5.5 | 5.5 |
| 90 | 5.5 | 5.5 |
| 95 | 5.1 | 5.5 |

**Cumulative Exceedance Probability Distribution of Daily Flows (cfs) at the OMR Gage under the No Project Alternative (Future Level of Demand) and the Existing Condition during September for the 20-Year Evaluation Period**



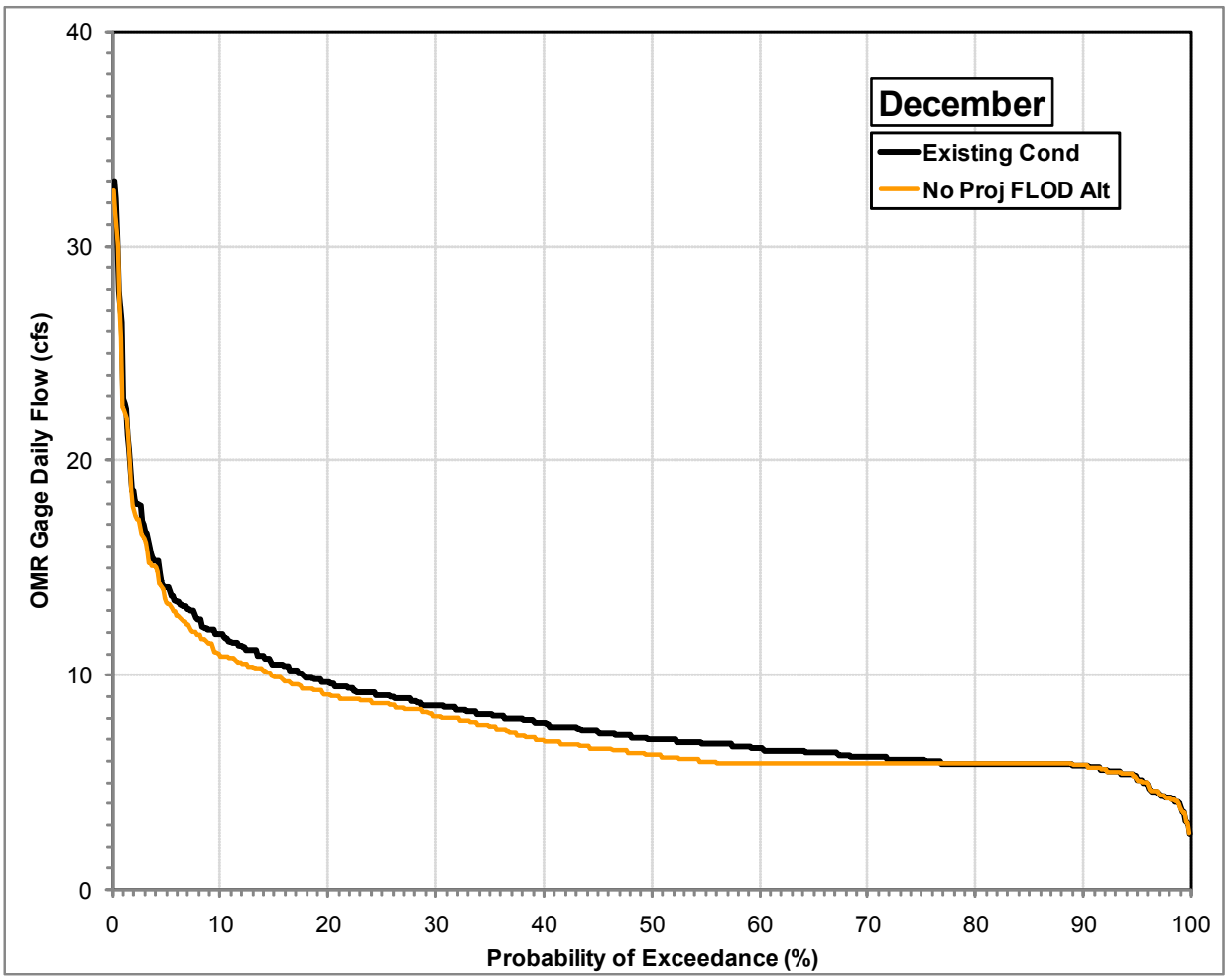

| Probability of Exceedance (%) | October OMR Gage Daily Flow (cfs) | |
|---|---|---|
| | No Proj FLOD Alt | Existing Cond |
| 5 | 11.3 | 11.9 |
| 10 | 10.3 | 10.9 |
| 20 | 8.7 | 9.2 |
| 25 | 8.2 | 8.5 |
| 50 | 6.3 | 6.6 |
| 75 | 5.5 | 5.5 |
| 80 | 5.5 | 5.5 |
| 90 | 4.9 | 5.1 |
| 95 | 4.6 | 4.9 |

**Cumulative Exceedance Probability Distribution of Daily Flows (cfs) at the OMR Gage under the No Project Alternative (Future Level of Demand) and the Existing Condition during October for the 20-Year Evaluation Period**



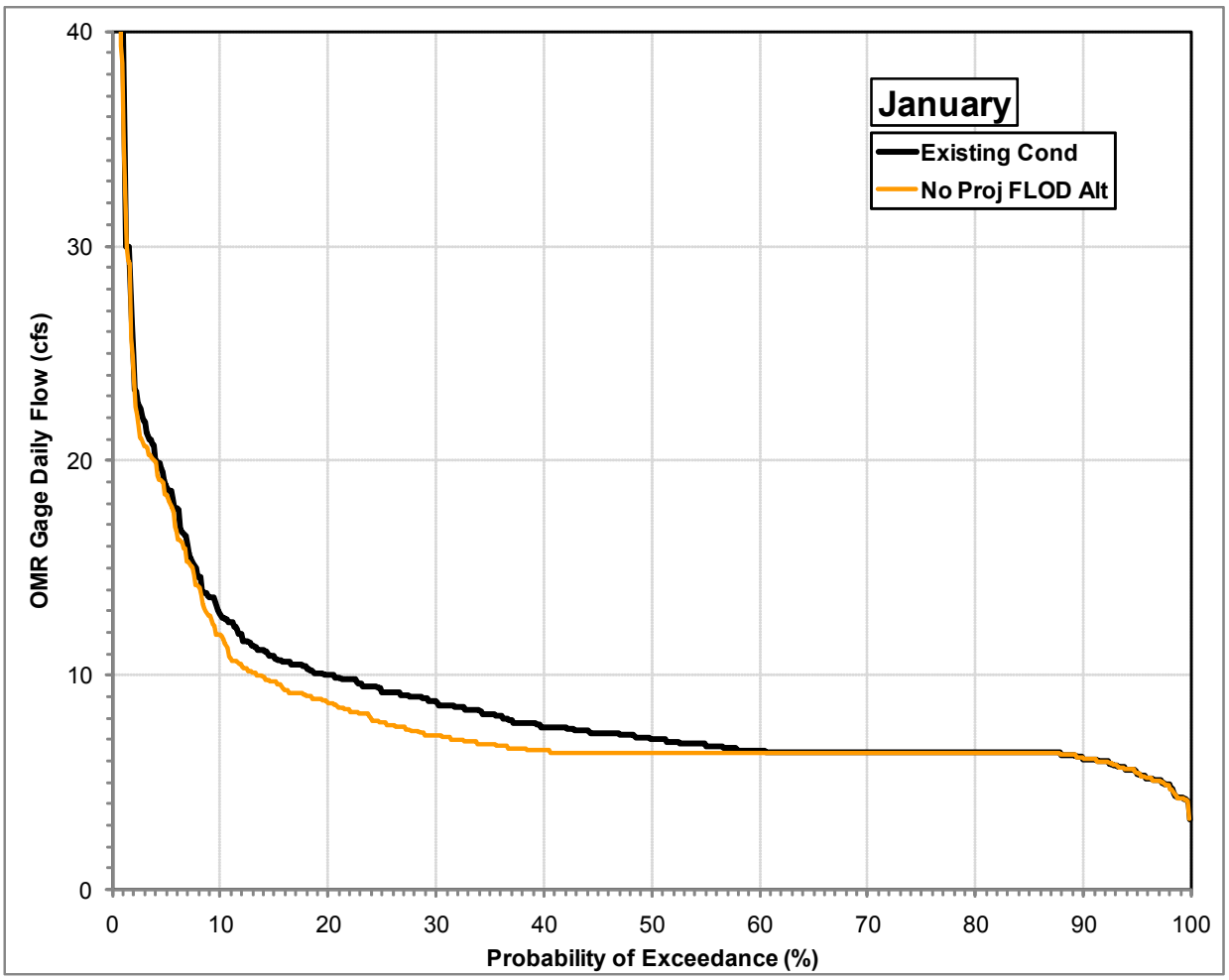

| Probability of Exceedance (%) | November OMR Gage Daily Flow (cfs) | |
|---|---|---|
| | No Proj FLOD Alt | Existing Cond |
| 5 | 12.4 | 12.6 |
| 10 | 10.5 | 10.8 |
| 20 | 9.0 | 9.5 |
| 25 | 8.4 | 9.1 |
| 50 | 6.8 | 7.6 |
| 75 | 5.9 | 6.3 |
| 80 | 5.9 | 6.1 |
| 90 | 5.9 | 5.9 |
| 95 | 5.3 | 5.3 |

**Cumulative Exceedance Probability Distribution of Daily Flows (cfs) at the OMR Gage under the No Project Alternative (Future Level of Demand) and the Existing Condition during November for the 20-Year Evaluation Period**



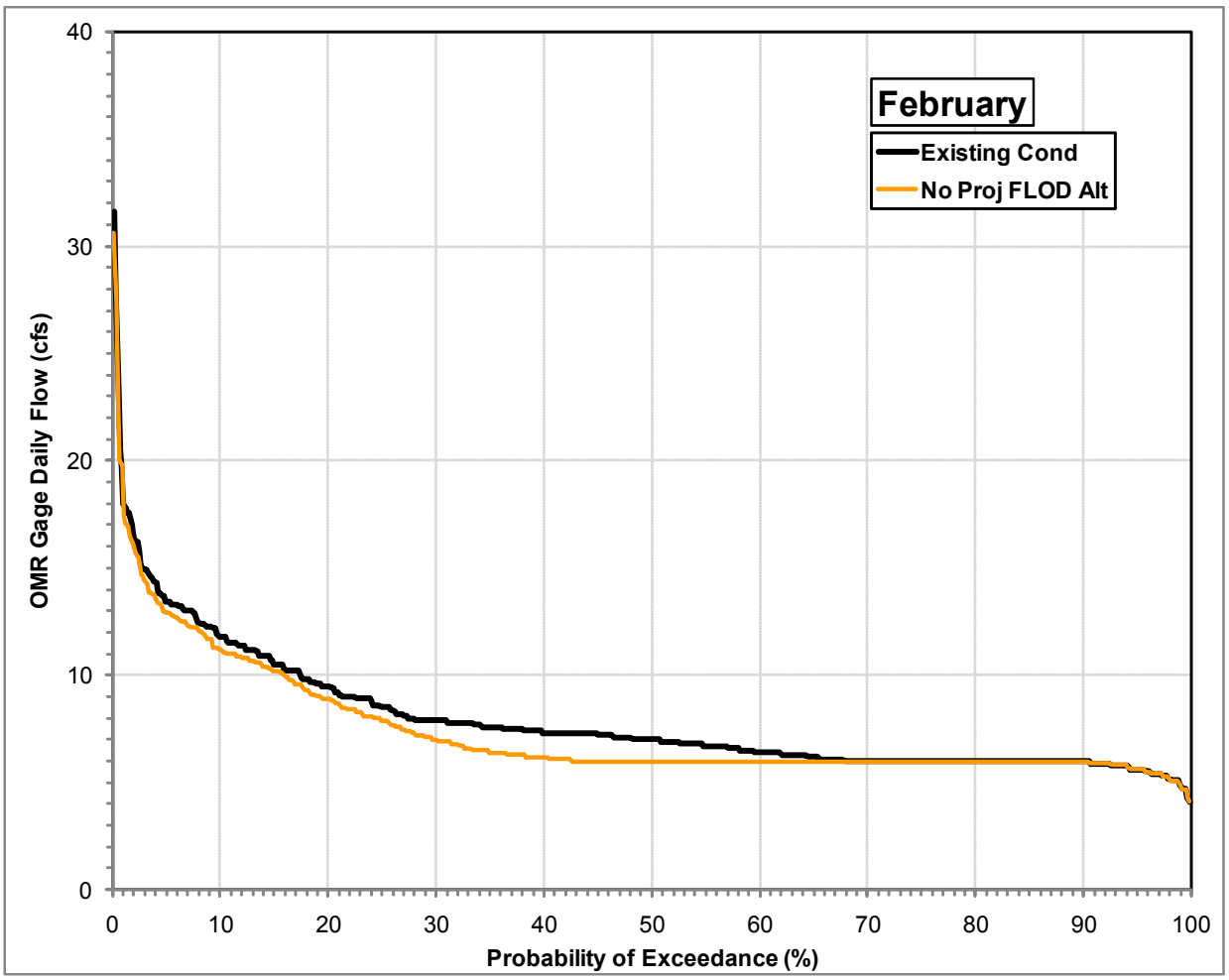

| Probability of Exceedance (%) | December OMR Gage Daily Flow (cfs) | |
|---|---|---|
| | No Proj FLOD Alt | Existing Cond |
| 5 | 13.4 | 14.1 |
| 10 | 10.9 | 11.9 |
| 20 | 9.1 | 9.7 |
| 25 | 8.7 | 9.1 |
| 50 | 6.3 | 7.0 |
| 75 | 5.9 | 6.1 |
| 80 | 5.9 | 5.9 |
| 90 | 5.8 | 5.8 |
| 95 | 5.1 | 5.1 |

**Cumulative Exceedance Probability Distribution of Daily Flows (cfs) at the OMR Gage under the No Project Alternative (Future Level of Demand) and the Existing Condition during December for the 20-Year Evaluation Period**



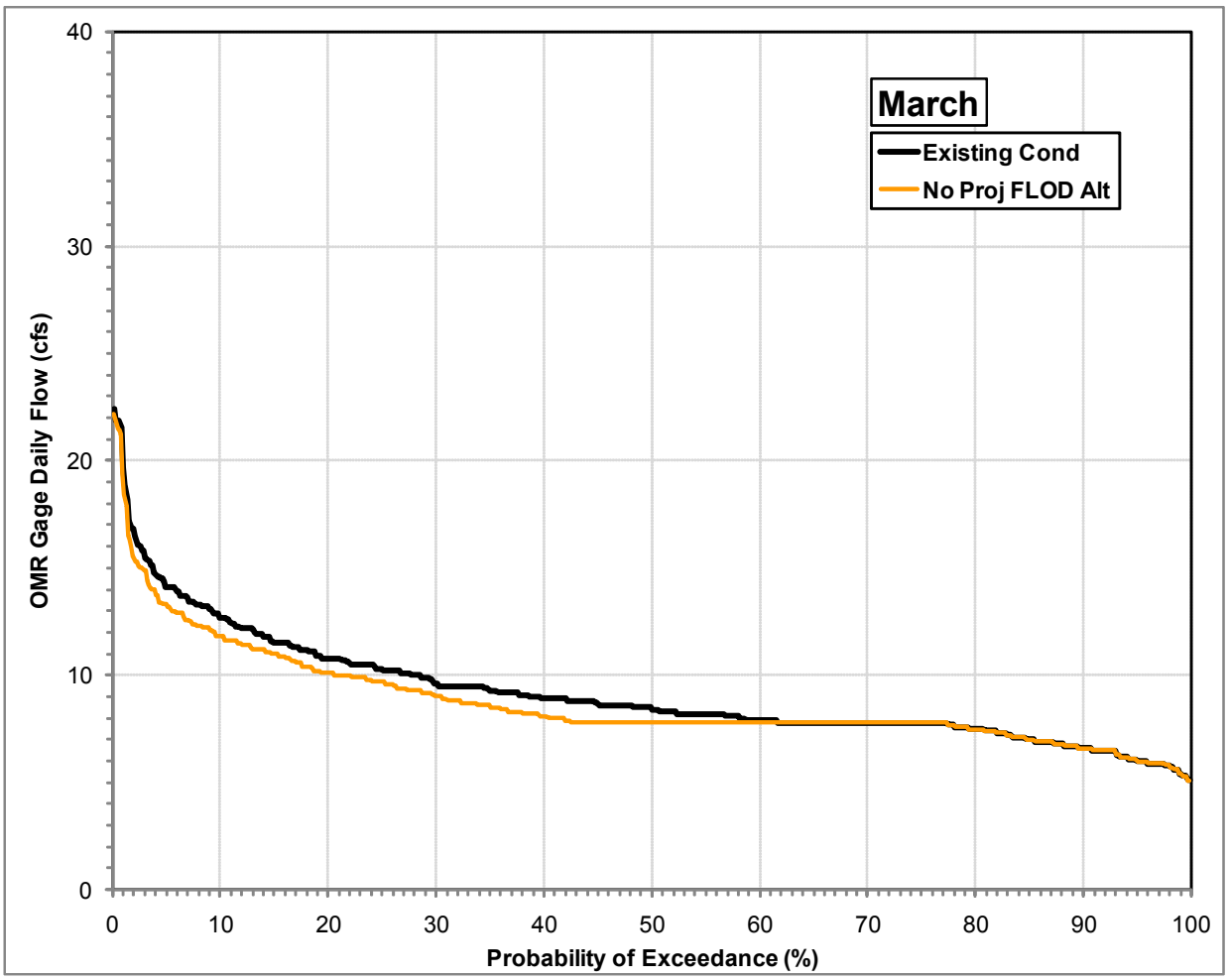

| Probability of Exceedance (%) | January OMR Gage Daily Flow (cfs) | |
|---|---|---|
| | No Proj FLOD Alt | Existing Cond |
| 5 | 18.4 | 18.6 |
| 10 | 11.9 | 12.7 |
| 20 | 8.7 | 10.0 |
| 25 | 7.8 | 9.2 |
| 50 | 6.4 | 7.0 |
| 75 | 6.4 | 6.4 |
| 80 | 6.4 | 6.4 |
| 90 | 6.1 | 6.1 |
| 95 | 5.4 | 5.4 |

**Cumulative Exceedance Probability Distribution of Daily Flows (cfs) at the OMR Gage under the No Project Alternative (Future Level of Demand) and the Existing Condition during January for the 20-Year Evaluation Period**



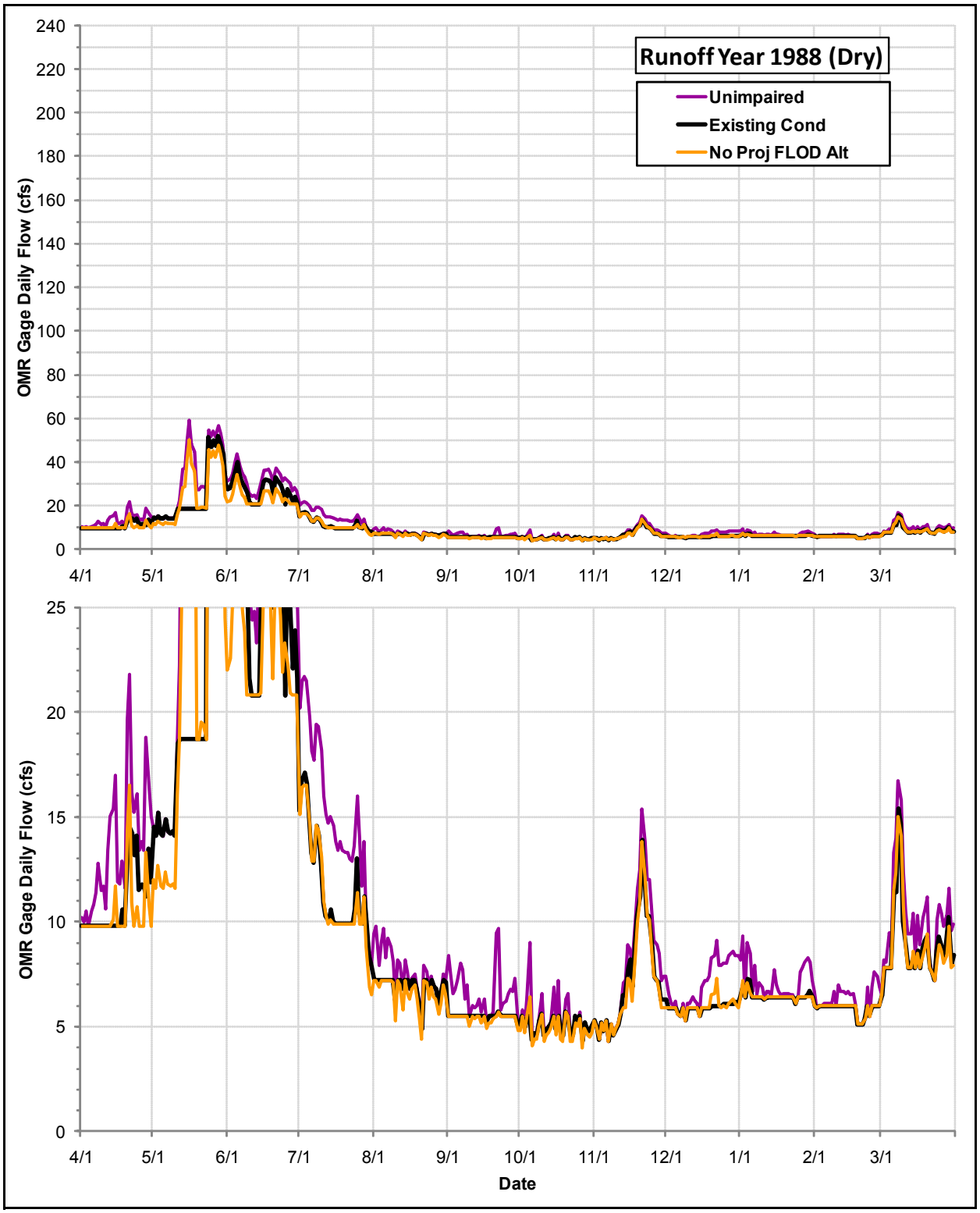

| Probability of Exceedance (%) | February OMR Gage Daily Flow (cfs) | |
|---|---|---|
| | No Proj FLOD Alt | Existing Cond |
| 5 | 12.9 | 13.4 |
| 10 | 11.2 | 11.8 |
| 20 | 8.9 | 9.5 |
| 25 | 7.9 | 8.5 |
| 50 | 6.0 | 7.0 |
| 75 | 6.0 | 6.0 |
| 80 | 6.0 | 6.0 |
| 90 | 6.0 | 6.0 |
| 95 | 5.6 | 5.6 |

**Cumulative Exceedance Probability Distribution of Daily Flows (cfs) at the OMR Gage under the No Project Alternative (Future Level of Demand) and the Existing Condition during February for the 20-Year Evaluation Period**

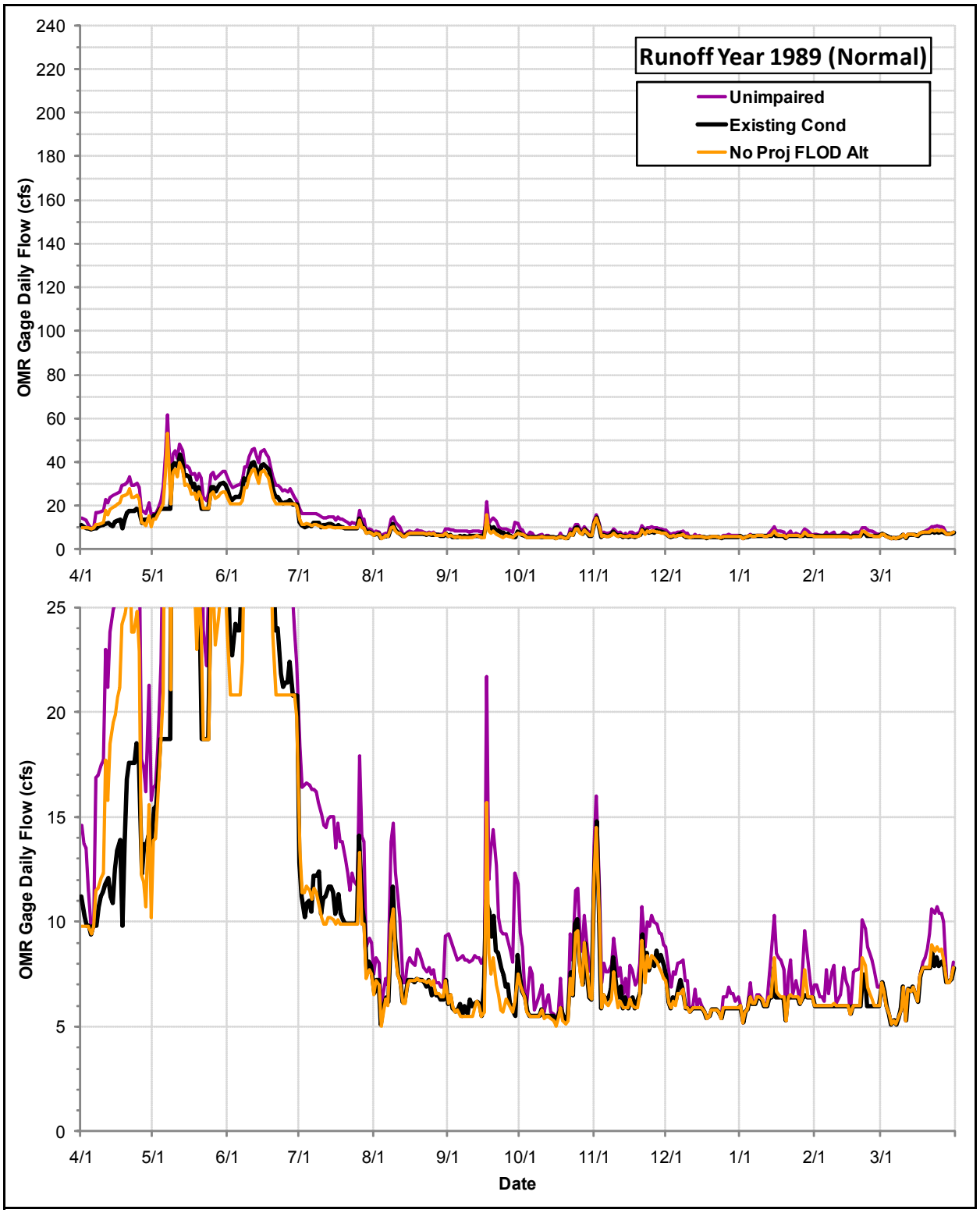



| Probability of Exceedance (%) | March OMR Gage Daily Flow (cfs) | |
|---|---|---|
| | No Proj FLOD Alt | Existing Cond |
| 5 | 13.3 | 14.1 |
| 10 | 11.8 | 12.7 |
| 20 | 10.1 | 10.8 |
| 25 | 9.7 | 10.2 |
| 50 | 7.8 | 8.4 |
| 75 | 7.8 | 7.8 |
| 80 | 7.5 | 7.5 |
| 90 | 6.6 | 6.6 |
| 95 | 6.0 | 6.0 |

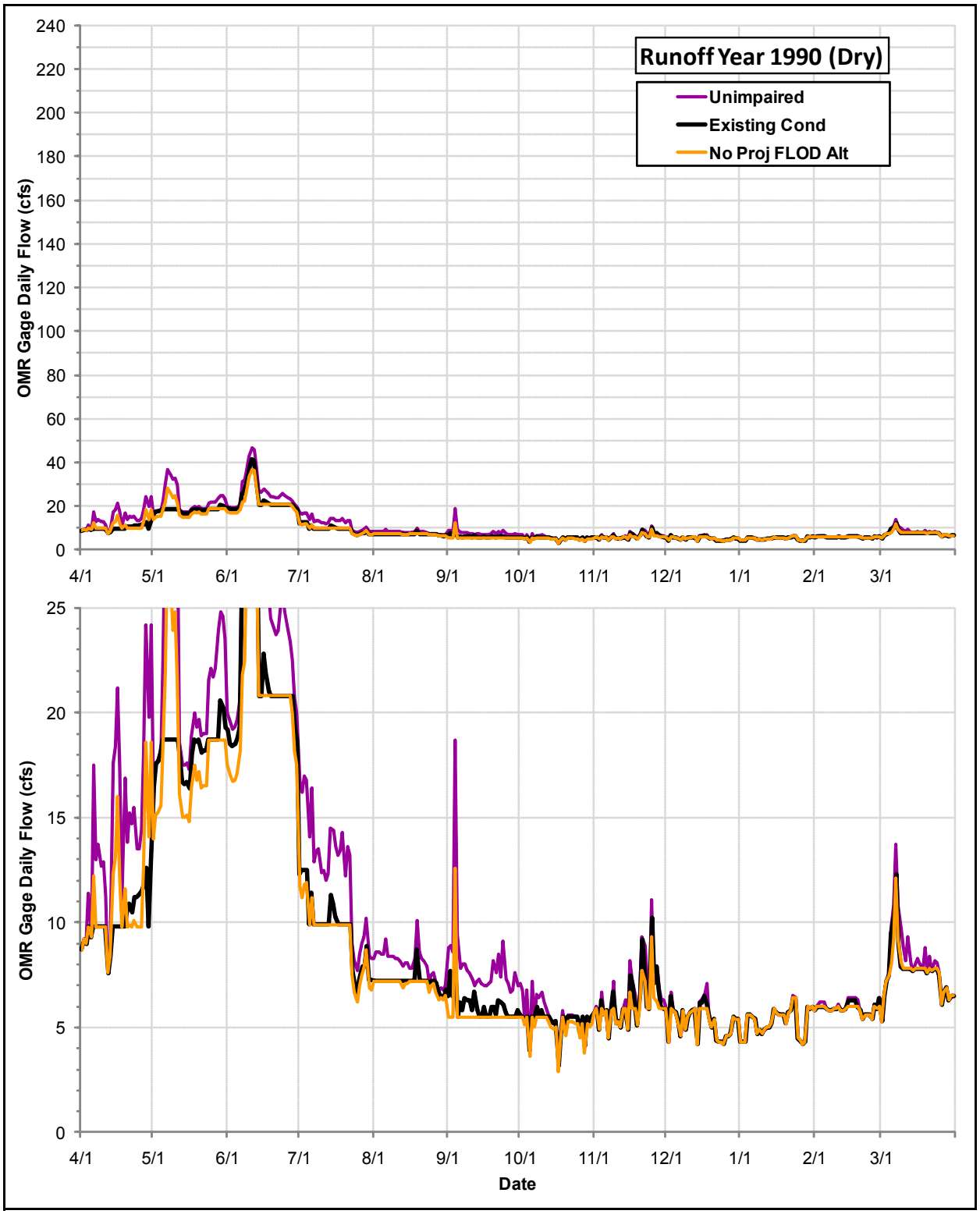
**Cumulative Exceedance Probability Distribution of Daily Flows (cfs) at the OMR Gage under the No Project Alternative (Future Level of Demand) and the Existing Condition during March for the 20-Year Evaluation Period**



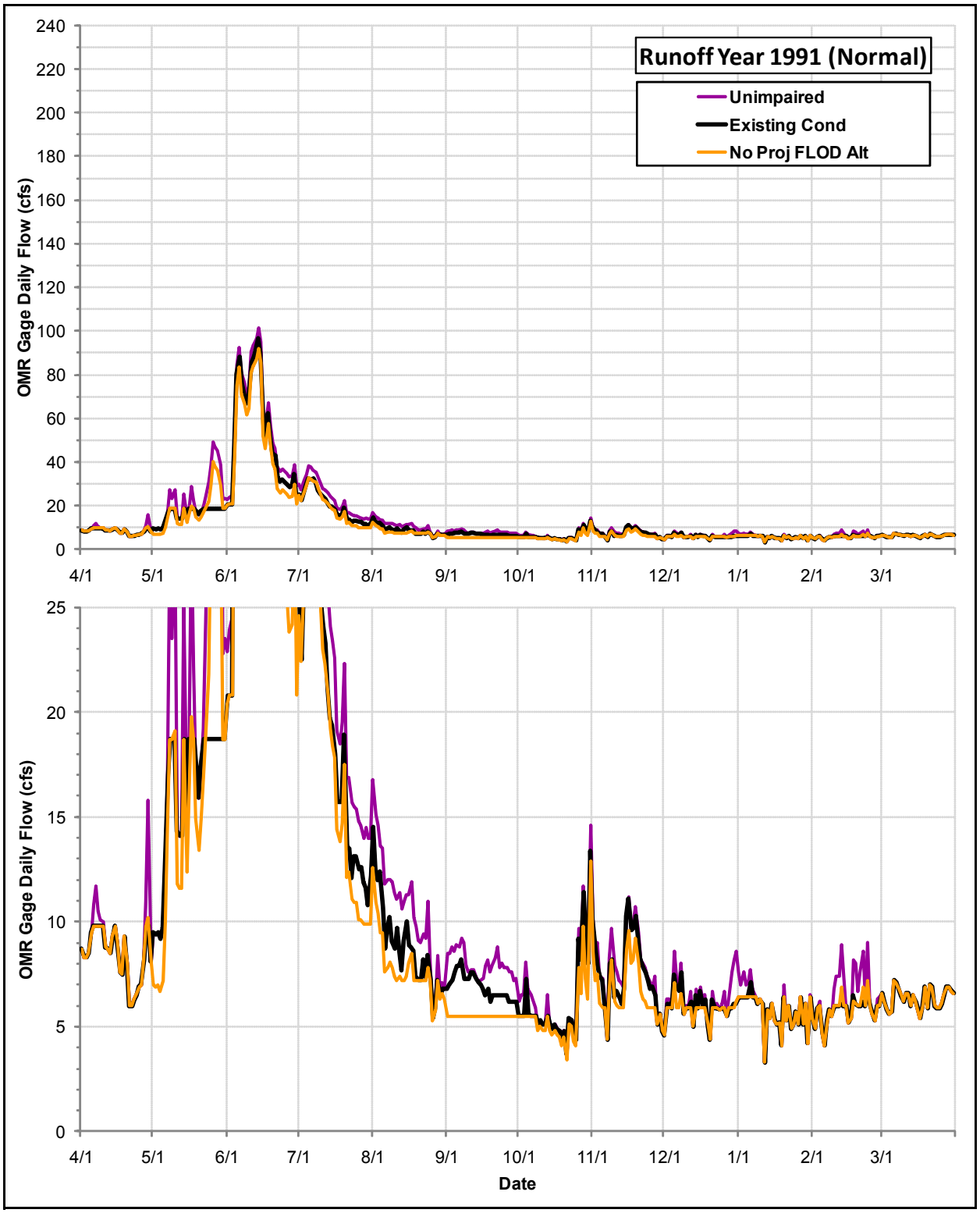

**Daily Flows (cfs) at the OMR Gage under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 1988**



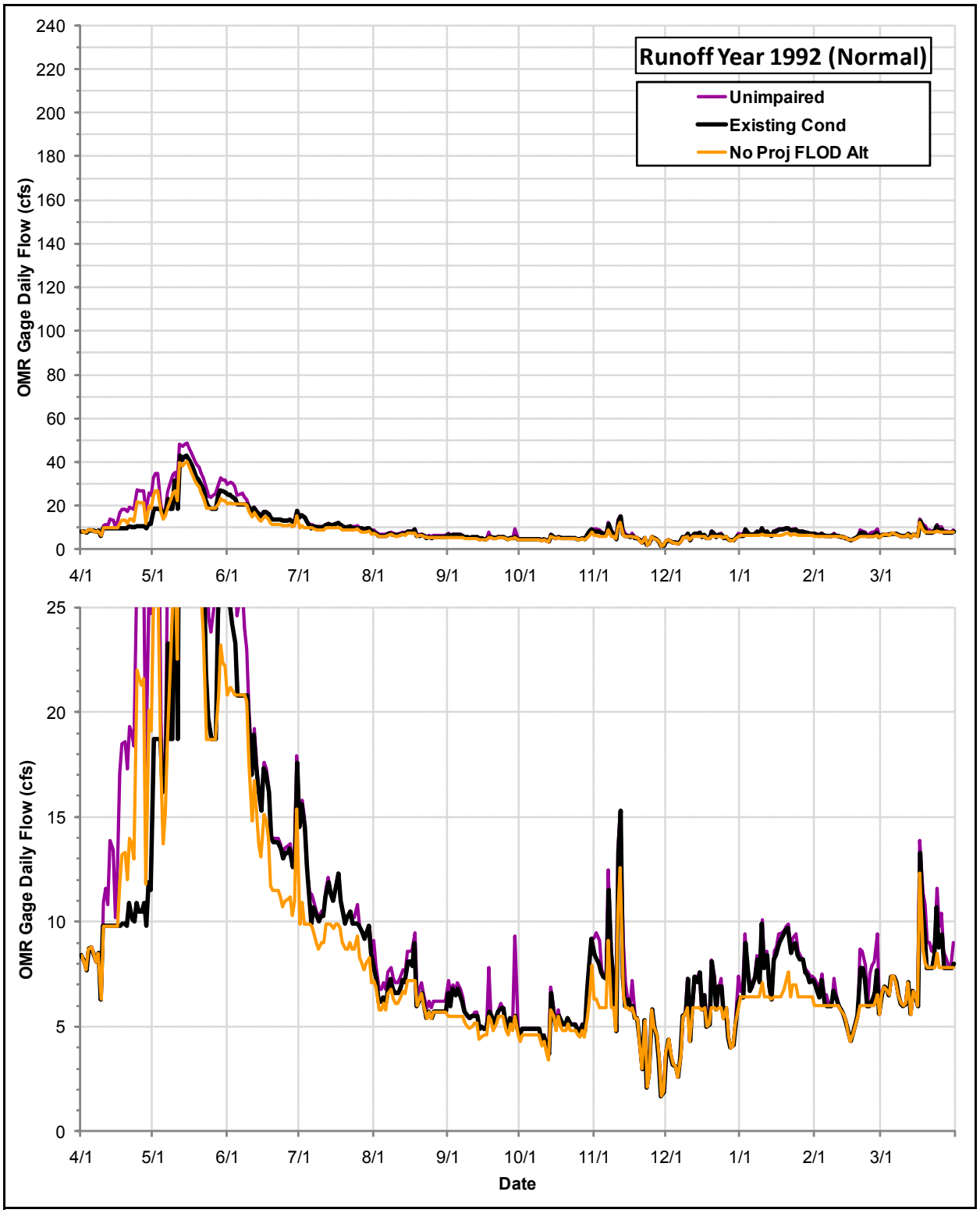

**Daily Flows (cfs) at the OMR Gage under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 1989**



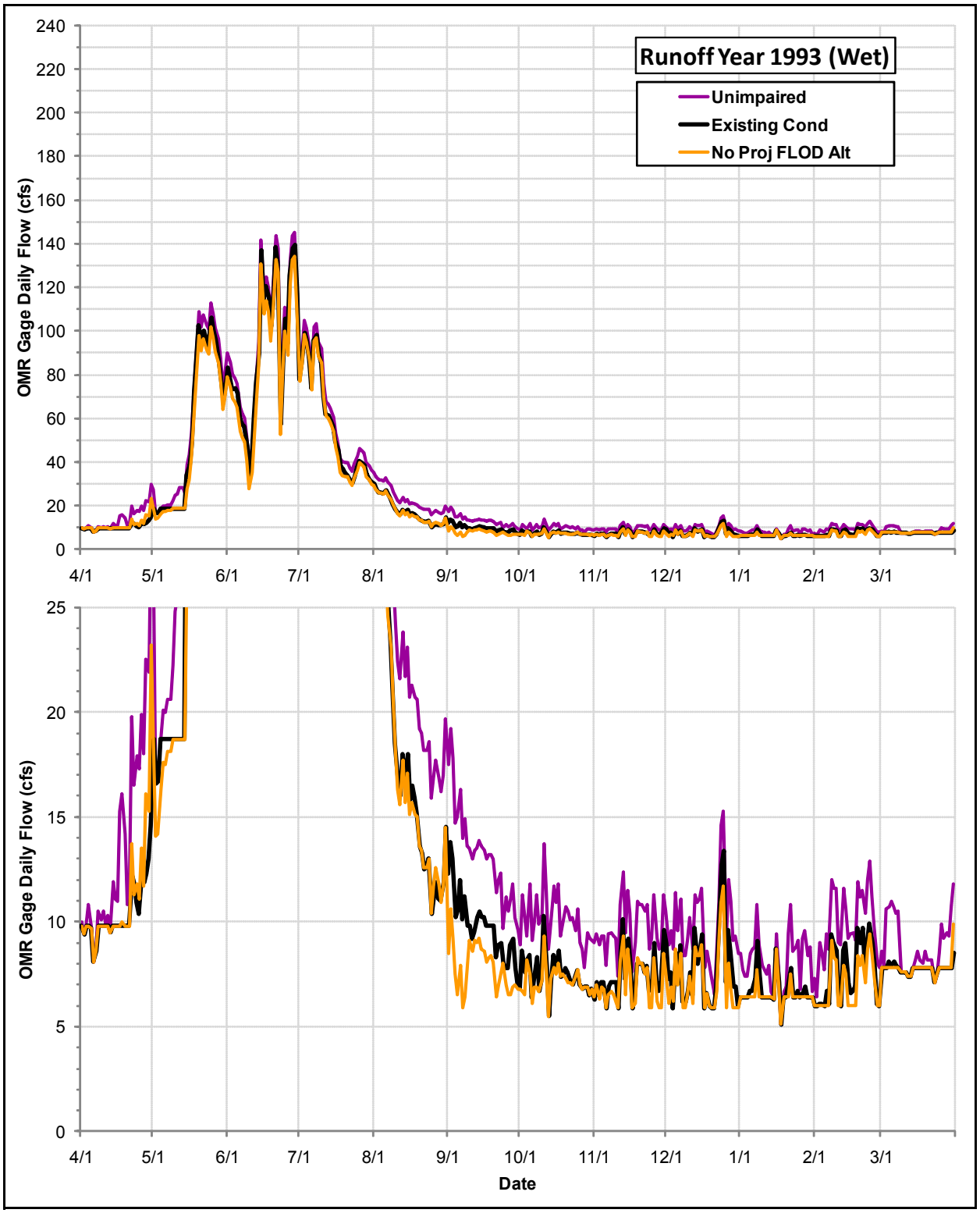

**Daily Flows (cfs) at the OMR Gage under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 1990**



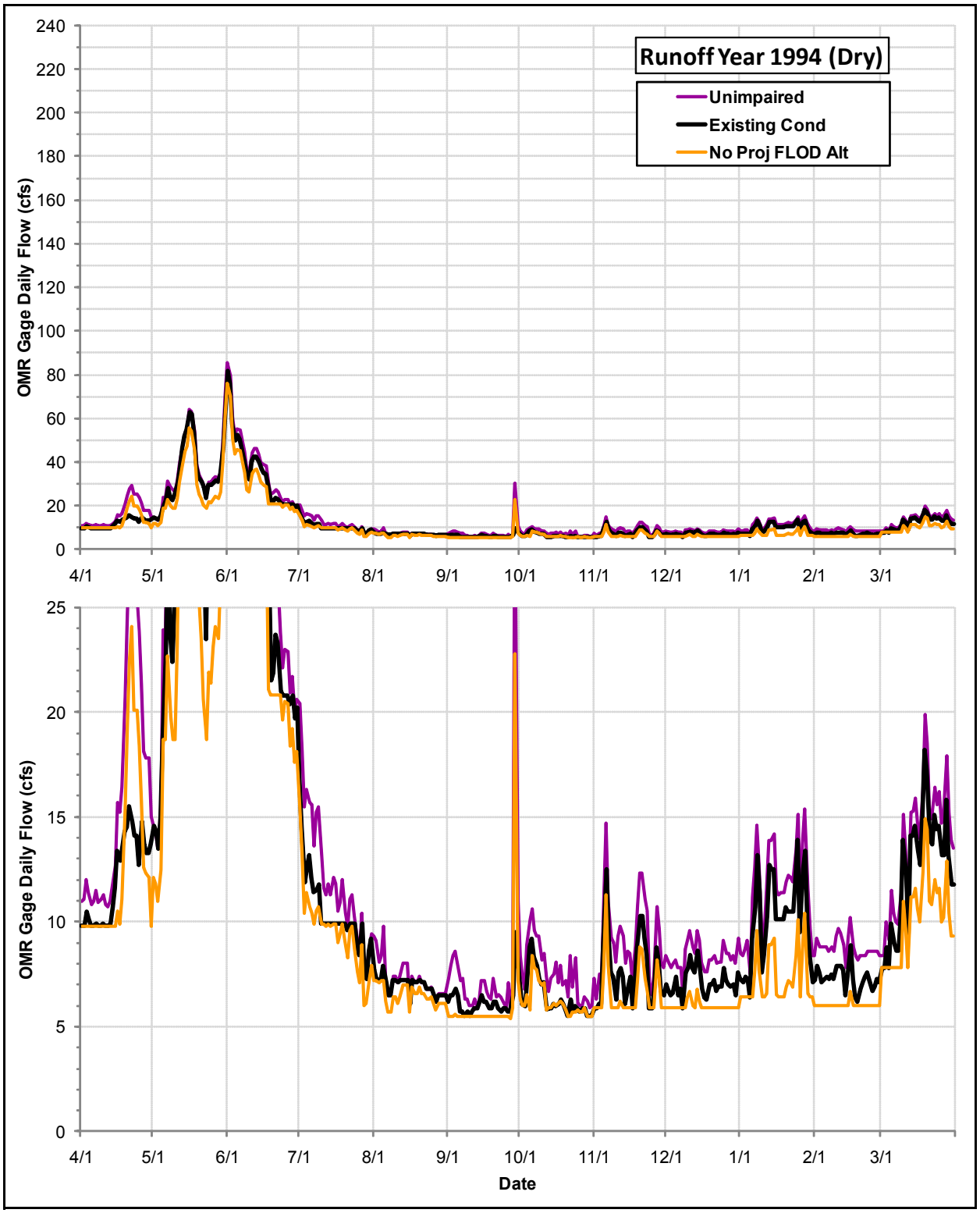

**Daily Flows (cfs) at the OMR Gage under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 1991**



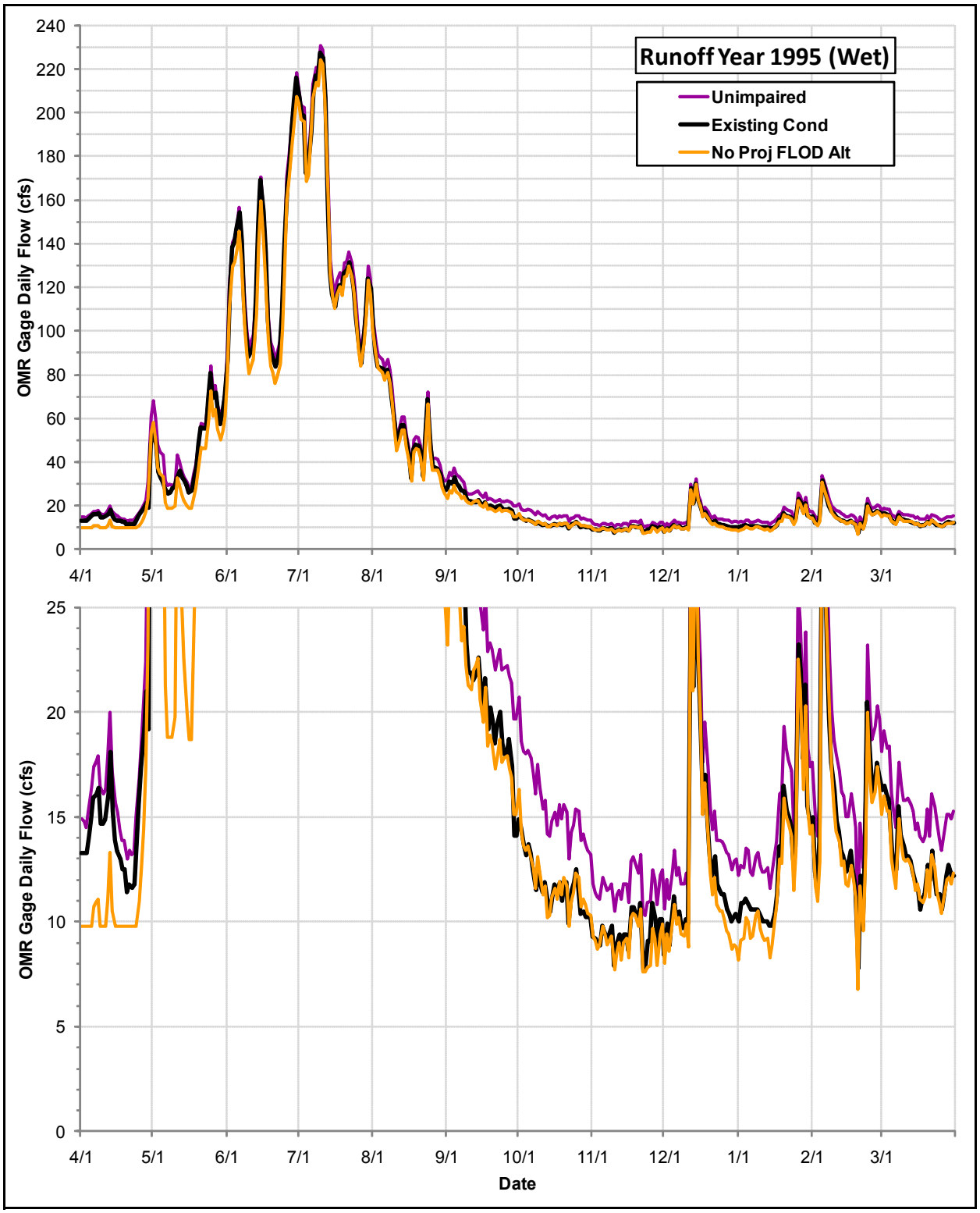

**Daily Flows (cfs) at the OMR Gage under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index Unimpaired Conditions during Runoff Year 1992**



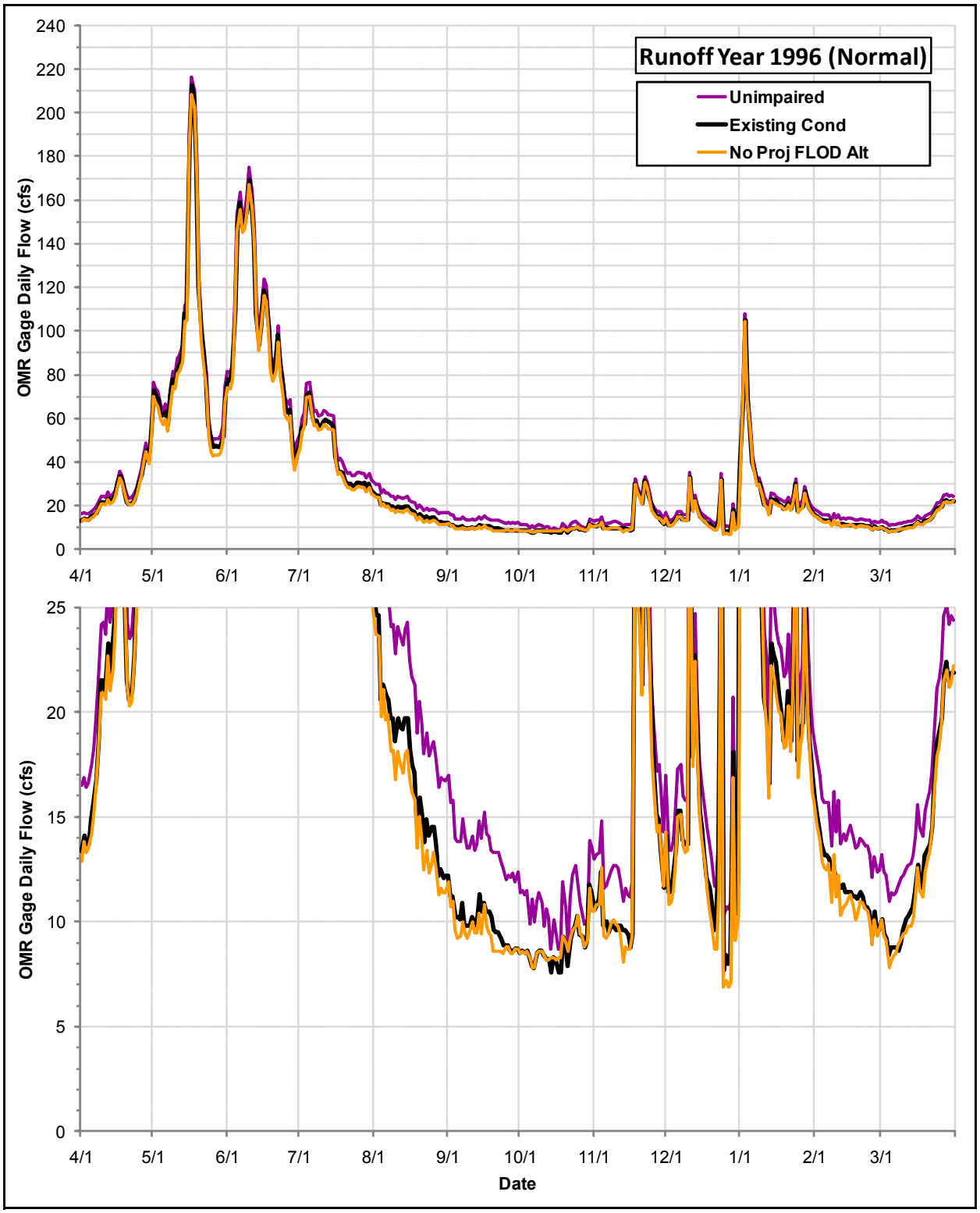

**Daily Flows (cfs) at the OMR Gage under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 1993**



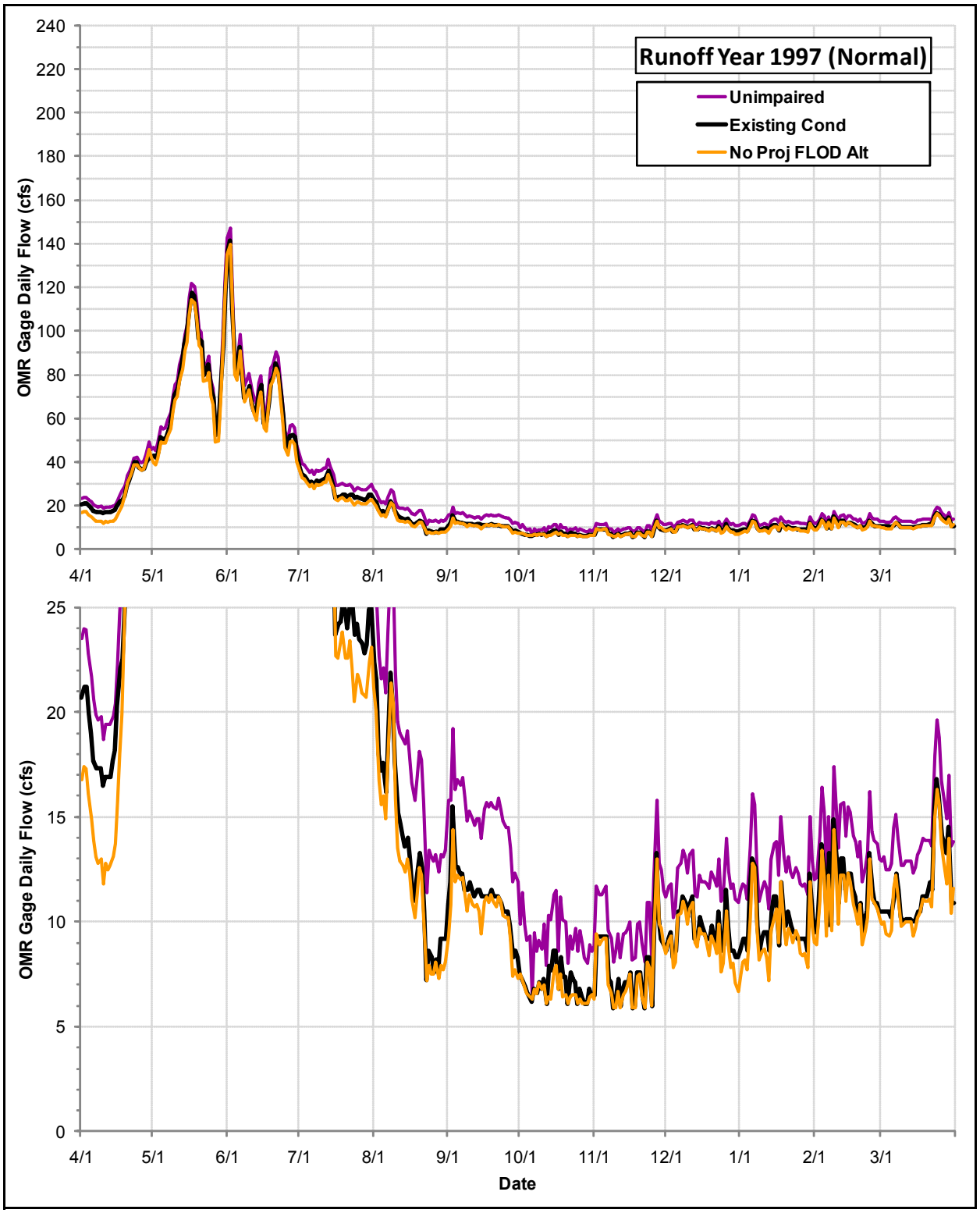

**Daily Flows (cfs) at the OMR Gage under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 1994**



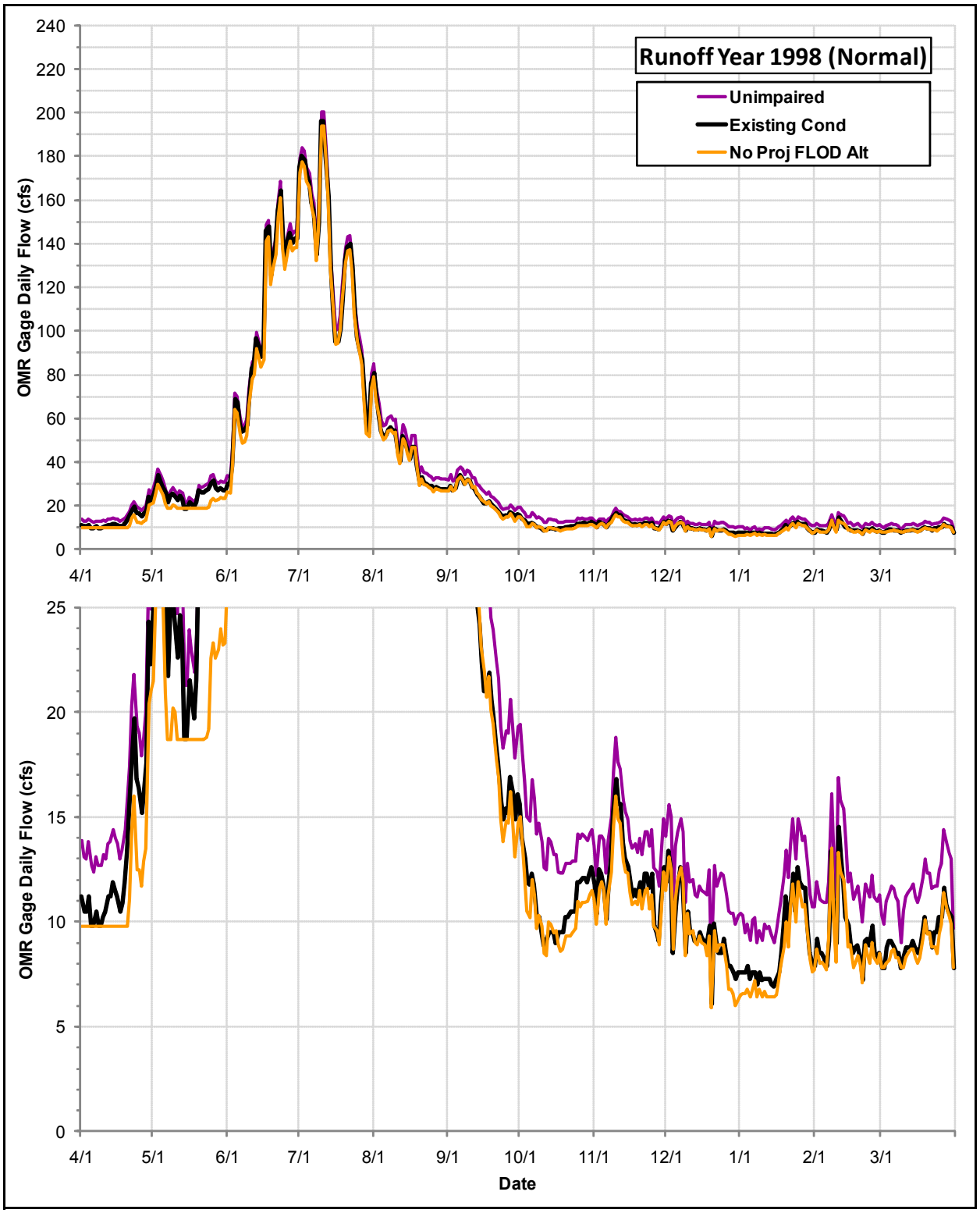

**Daily Flows (cfs) at the OMR Gage under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 1995**



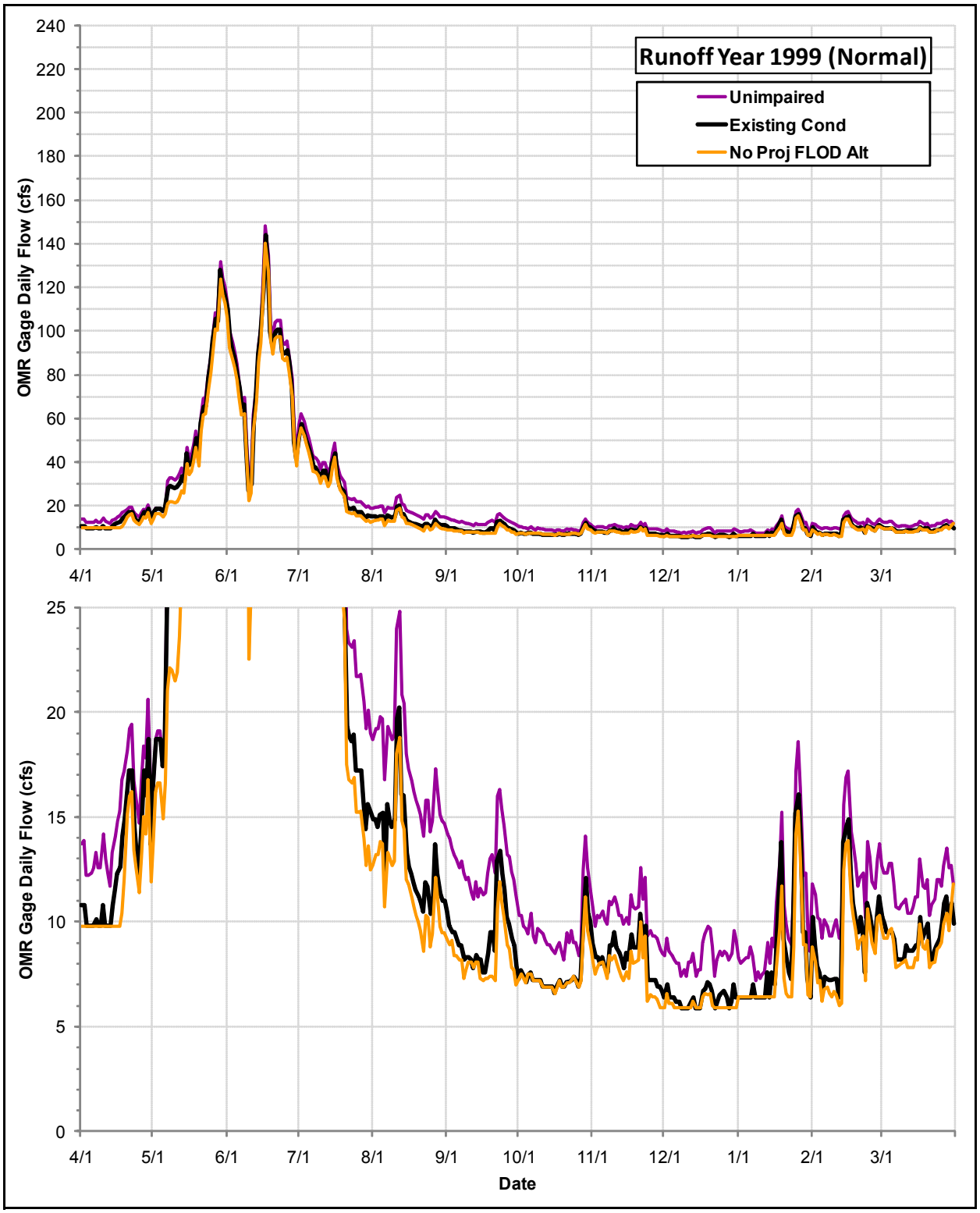

**Daily Flows (cfs) at the OMR Gage under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 1996**



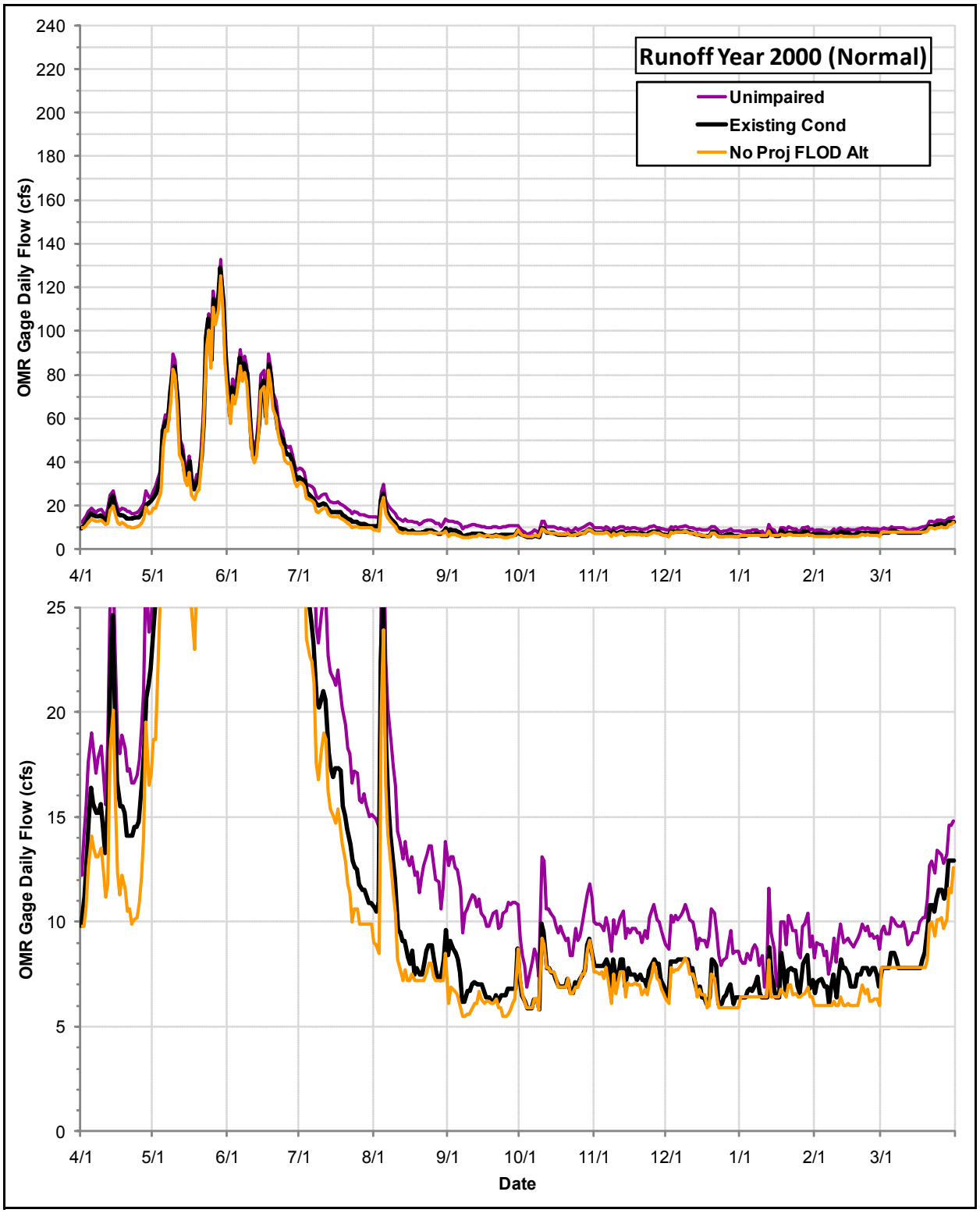

**Daily Flows (cfs) at the OMR Gage under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 1997**



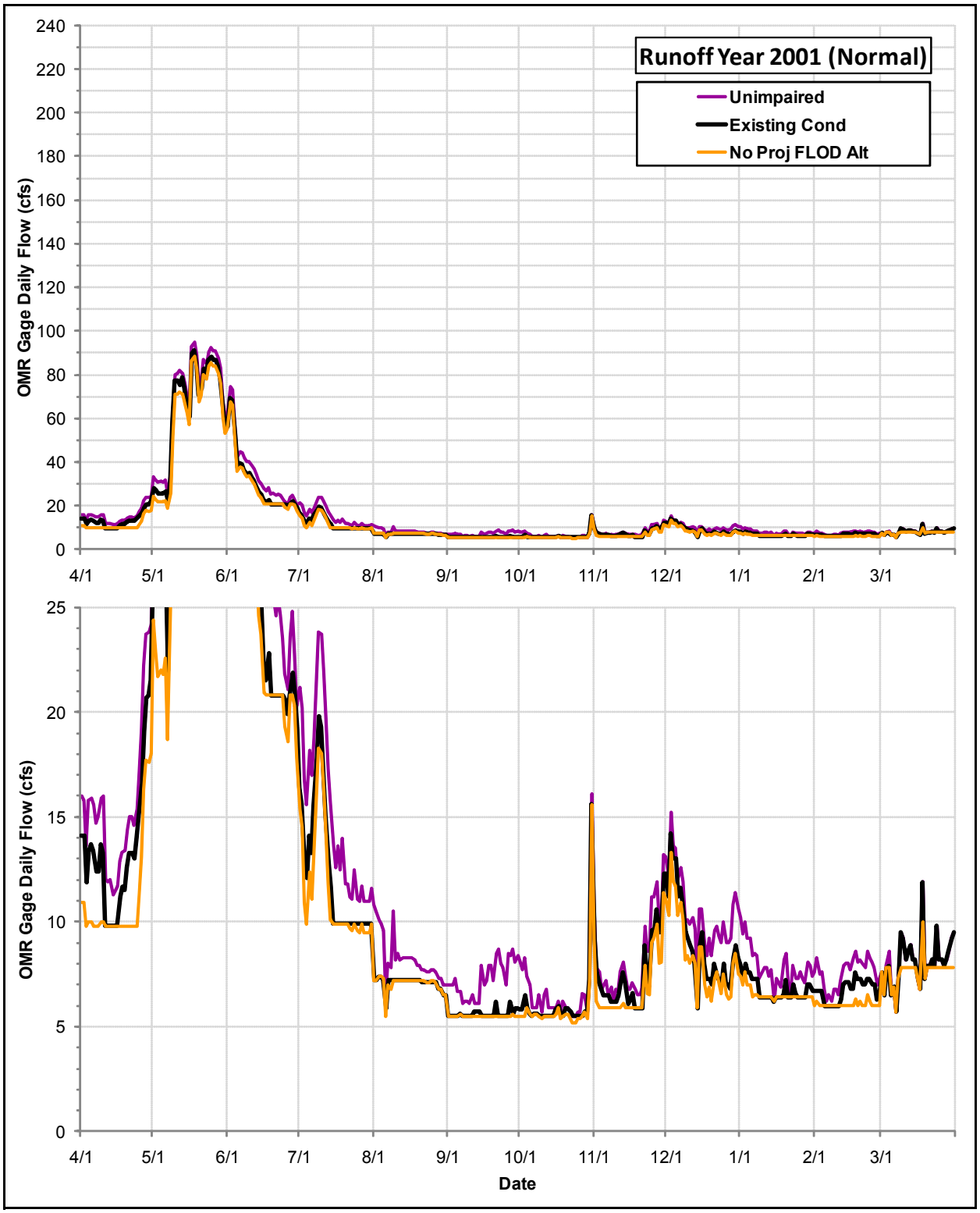

**Daily Flows (cfs) at the OMR Gage under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 1998**



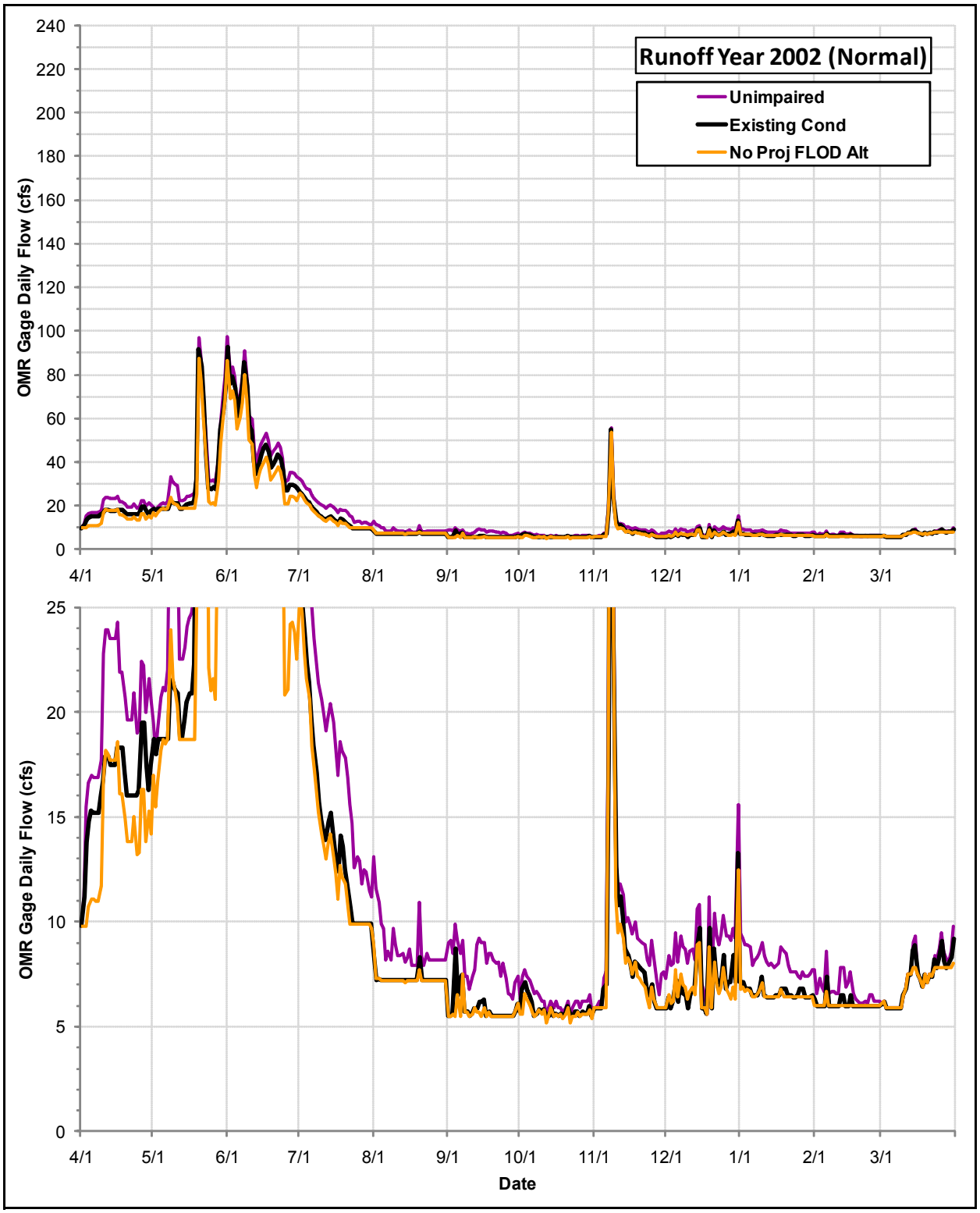

**Daily Flows (cfs) at the OMR Gage under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 1999**



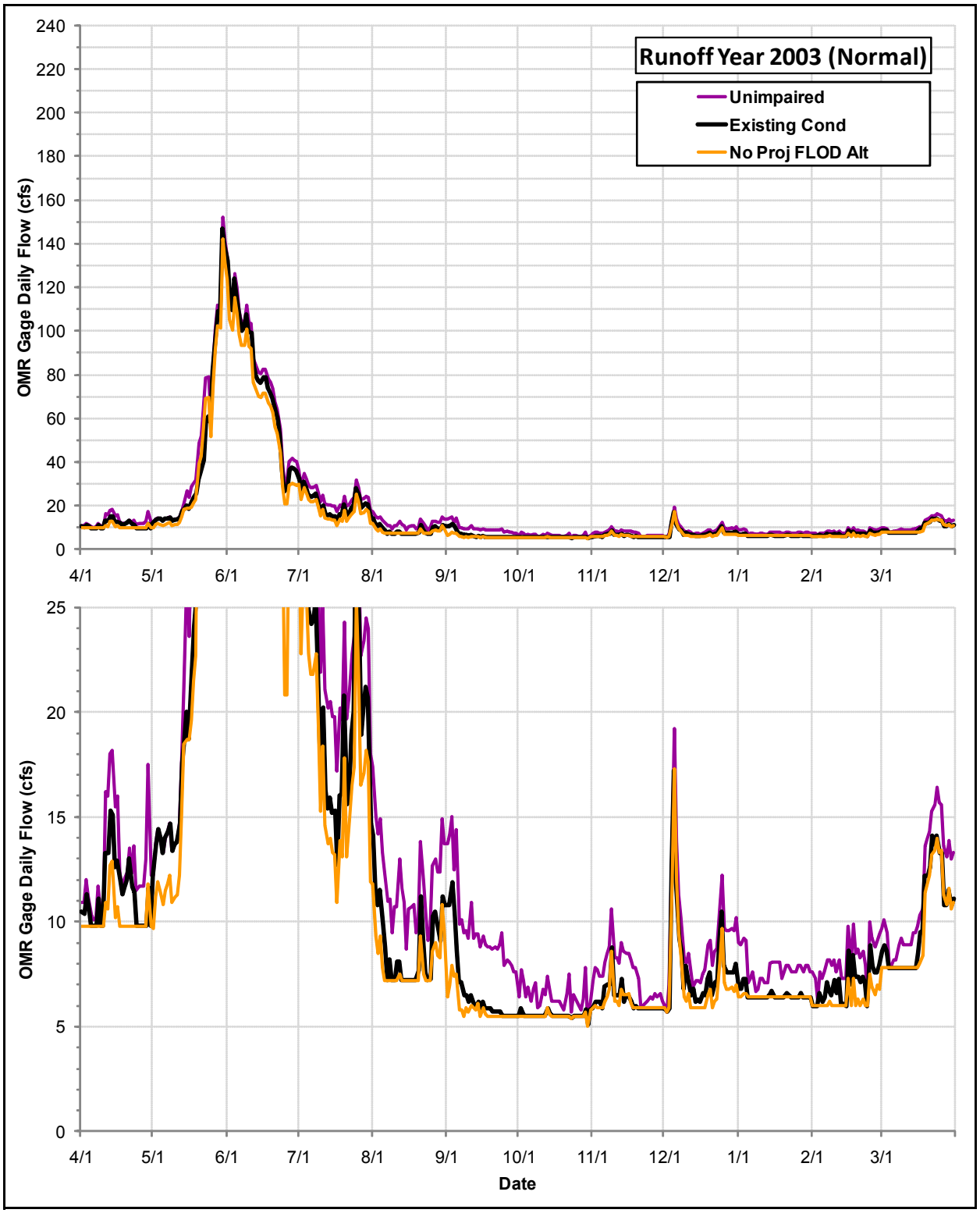

**Daily Flows (cfs) at the OMR Gage under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 2000**



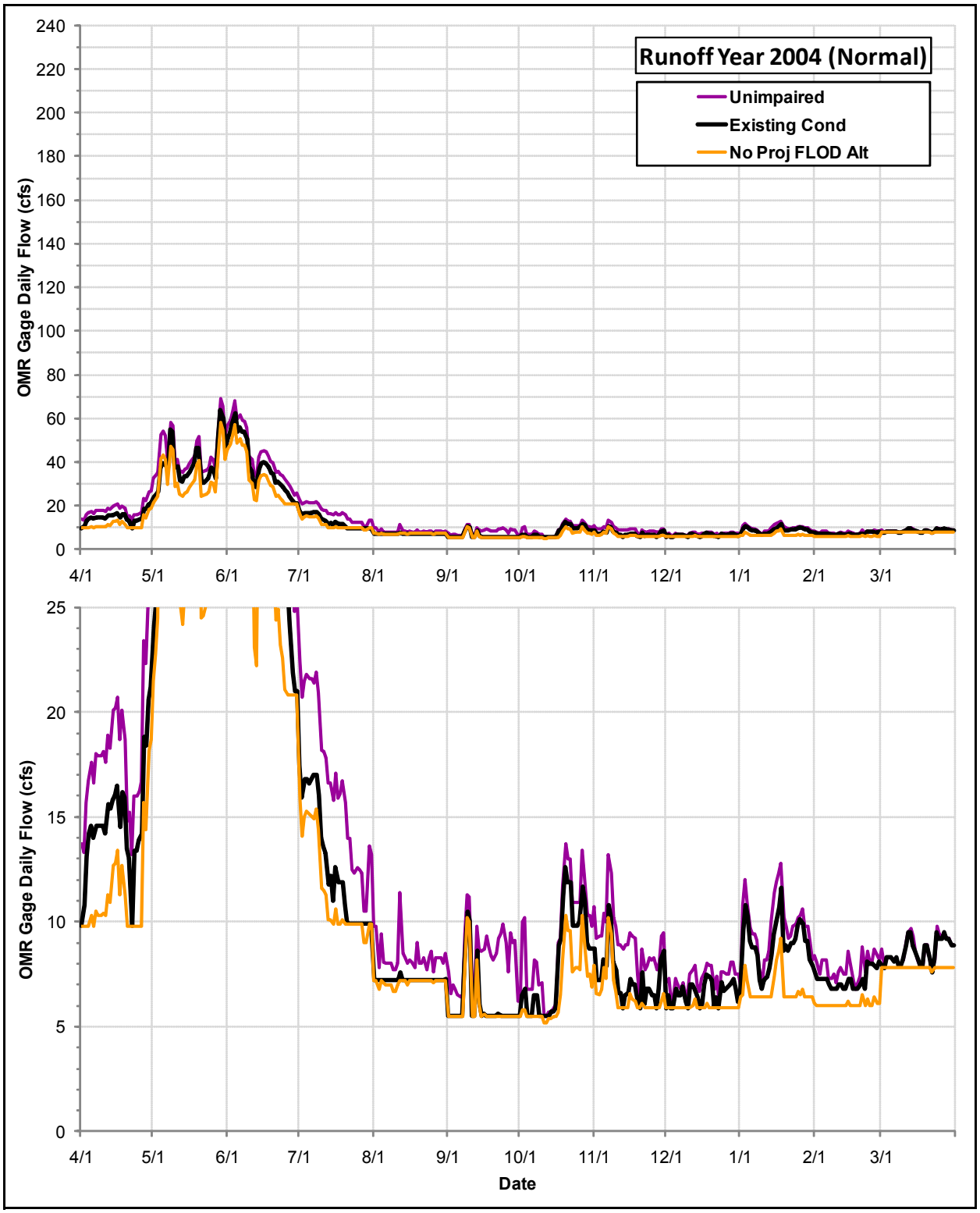

**Daily Flows (cfs) at the OMR Gage under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 2001**



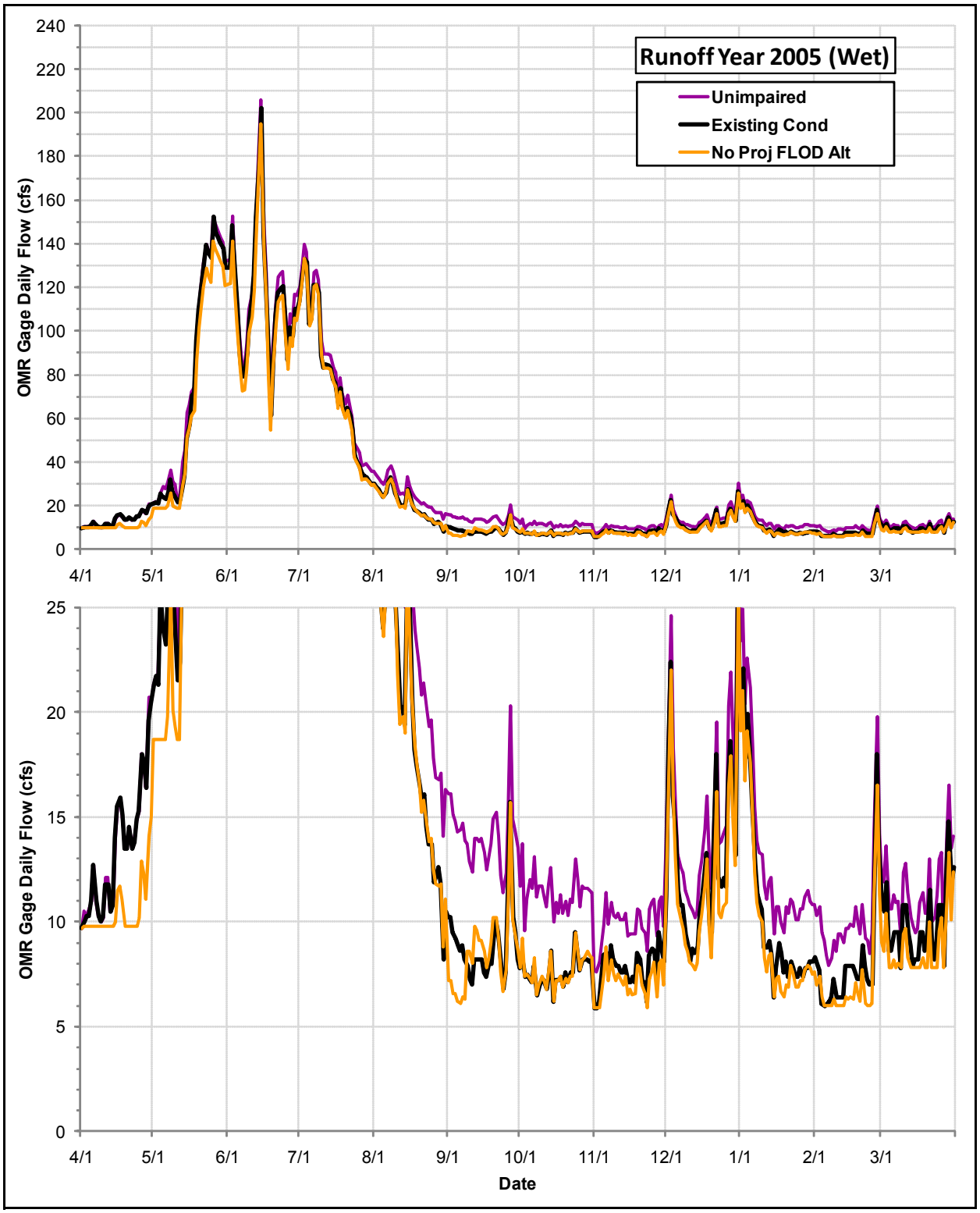

**Daily Flows (cfs) at the OMR Gage under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 2002**



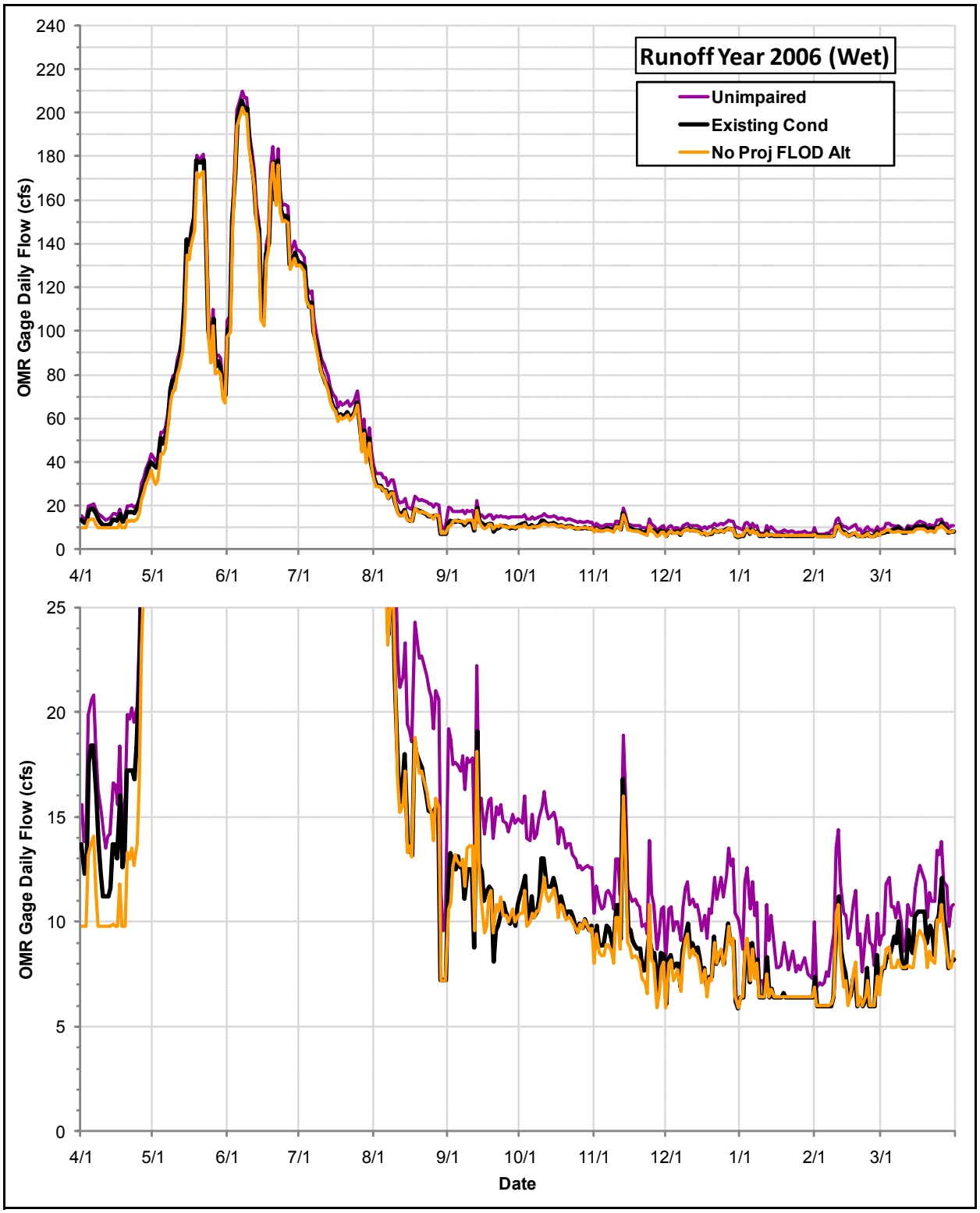

**Daily Flows (cfs) at the OMR Gage under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 2003**



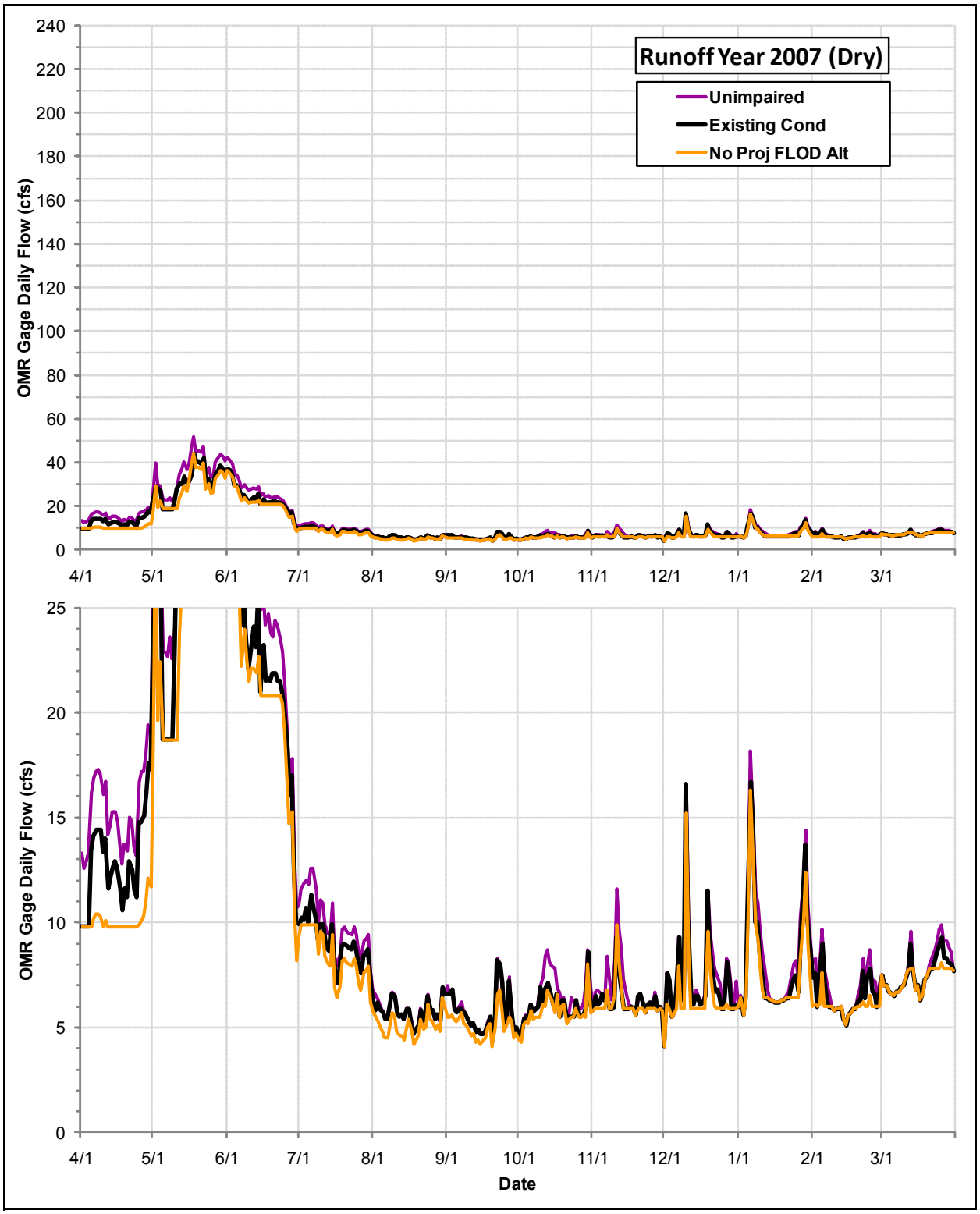

**Daily Flows (cfs) at the OMR Gage under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 2004**




**Daily Flows (cfs) at the OMR Gage under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 2005**




**Daily Flows (cfs) at the OMR Gage under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 2006**




**Daily Flows (cfs) at the OMR Gage under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 2007**

**Total Number of Days with a Recurrence Interval of Daily Flows ≥ $Q_{20}$ at the OMR Gage by Runoff Year and Runoff Year Type under the No Project Alternative (Future Level of Demand) and the Existing Condition Over the 20-Year Evaluation Period**

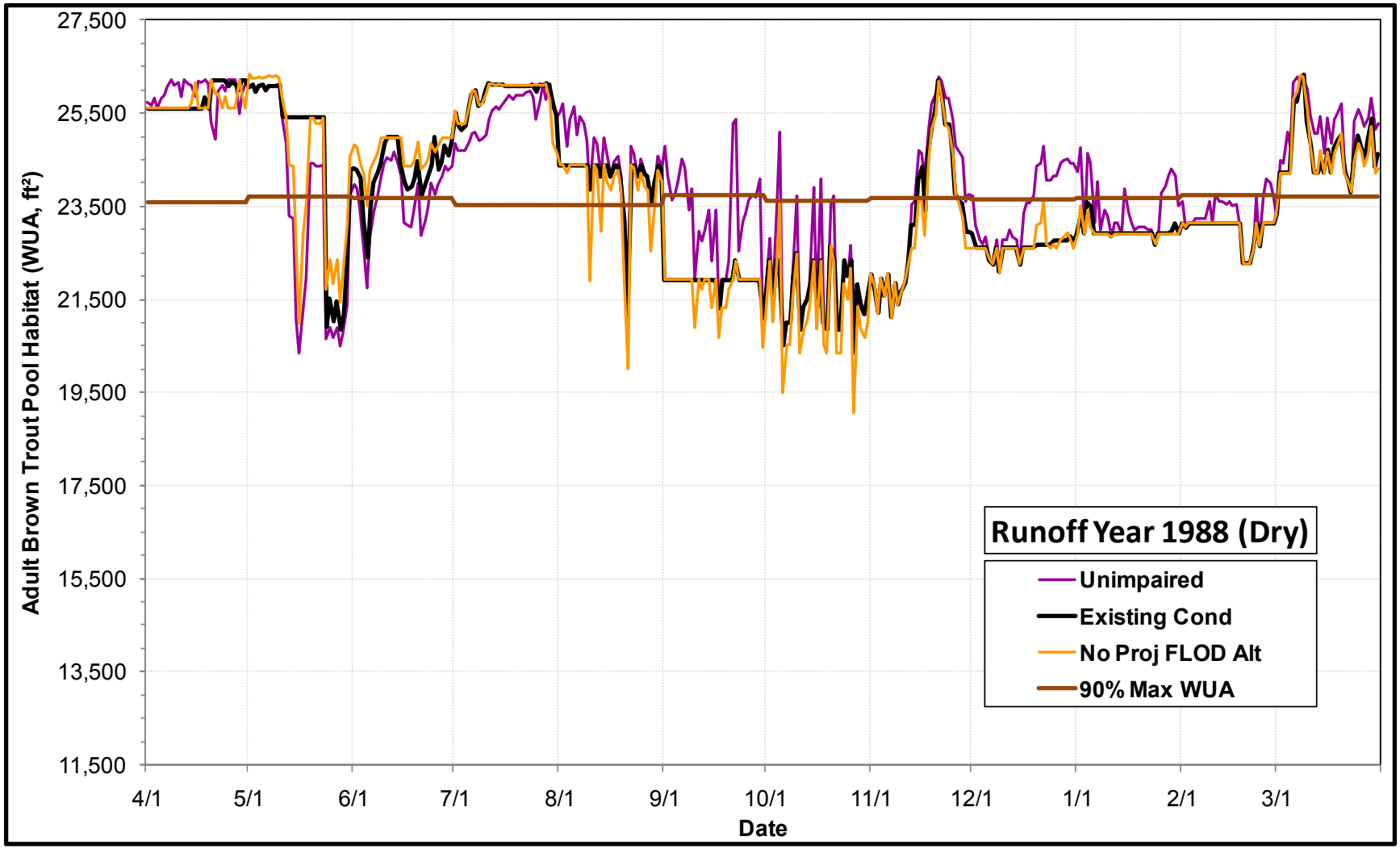
| Runoff Year | Runoff Year Type | Number of Days with OMR Gage Daily Flows ≥ $Q_{20}$ ($Q_{20}$ = 141 cfs) | | |
|---|---|---|---|---|
| | | No Proj FLOD Alt | Existing Cond | (No Proj FLOD Alt - Existing Cond) |
| 1988 | D | 0 | 0 | 0 |
| 1989 | N | 0 | 0 | 0 |
| 1990 | D | 0 | 0 | 0 |
| 1991 | N | 0 | 0 | 0 |
| 1992 | N | 0 | 0 | 0 |
| 1993 | W | 0 | 0 | 0 |
| 1994 | D | 0 | 0 | 0 |
| 1995 | W | 21 | 24 | -3 |
| 1996 | N | 11 | 12 | -1 |
| 1997 | N | 0 | 1 | -1 |
| 1998 | N | 17 | 21 | -4 |
| 1999 | N | 0 | 1 | -1 |
| 2000 | N | 0 | 0 | 0 |
| 2001 | N | 0 | 0 | 0 |
| 2002 | N | 0 | 0 | 0 |
| 2003 | N | 1 | 1 | 0 |
| 2004 | N | 0 | 0 | 0 |
| 2005 | W | 5 | 8 | -3 |
| 2006 | W | 25 | 28 | -3 |
| 2007 | D | 0 | 0 | 0 |
| Total | | 80 | 96 | -16 |

**Total Number of Channel Maintenance and Flushing Flow Events (Daily Flows ≥ $Q_{1.75}$) at the OMR Gage by Runoff Year and Runoff Year Type under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions Over the 20-Year Evaluation Period**

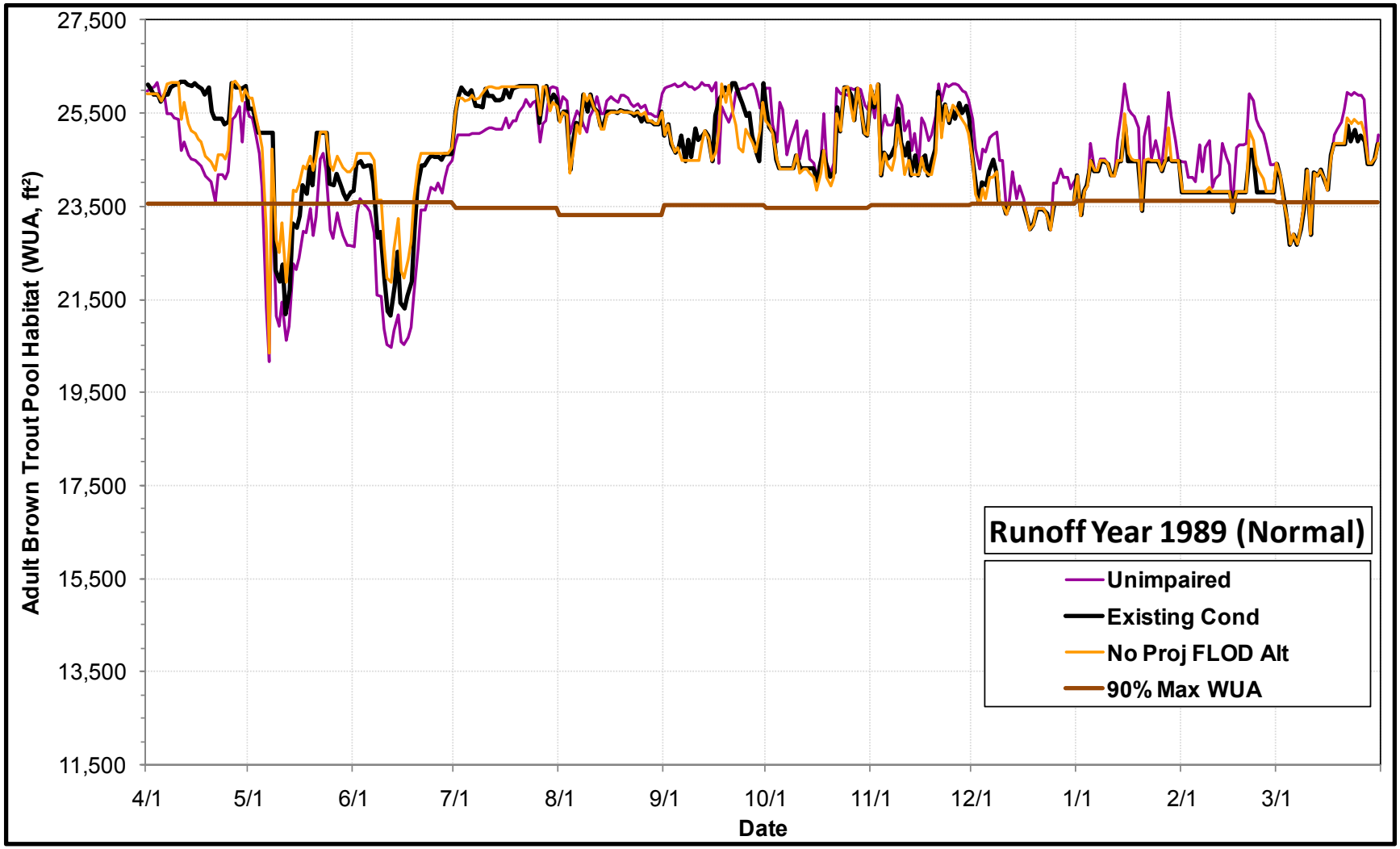
| Runoff Year | Runoff Year Type | Number of Events (Consecutive days) with OMR Gage Daily Flows ≥ $Q_{1.75}$ ($Q_{1.75}$ = 109.7 cfs) | | |
|---|---|---|---|---|
| | | No Proj FLOD Alt | Existing Cond | Unimpaired |
| 1988 | D | 0 | 0 | 0 |
| 1989 | N | 0 | 0 | 0 |
| 1990 | D | 0 | 0 | 0 |
| 1991 | N | 0 | 0 | 0 |
| 1992 | N | 0 | 0 | 0 |
| 1993 | W | 4 | 3 | 5 |
| 1994 | D | 0 | 0 | 0 |
| 1995 | W | 4 | 4 | 4 |
| 1996 | N | 3 | 3 | 3 |
| 1997 | N | 2 | 2 | 2 |
| 1998 | N | 2 | 2 | 2 |
| 1999 | N | 2 | 2 | 2 |
| 2000 | N | 2 | 2 | 1 |
| 2001 | N | 0 | 0 | 0 |
| 2002 | N | 0 | 0 | 0 |
| 2003 | N | 2 | 1 | 2 |
| 2004 | N | 0 | 0 | 0 |
| 2005 | W | 5 | 6 | 5 |
| 2006 | W | 3 | 3 | 3 |
| 2007 | D | 0 | 0 | 0 |
| Total | | 29 | 28 | 29 |

**Total Number of Days with a Recurrence Interval of Daily Flows ≥ Q1.75 at the OMR Gage by Runoff Year and Runoff Year Type under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions Over the 20-Year Evaluation Period**

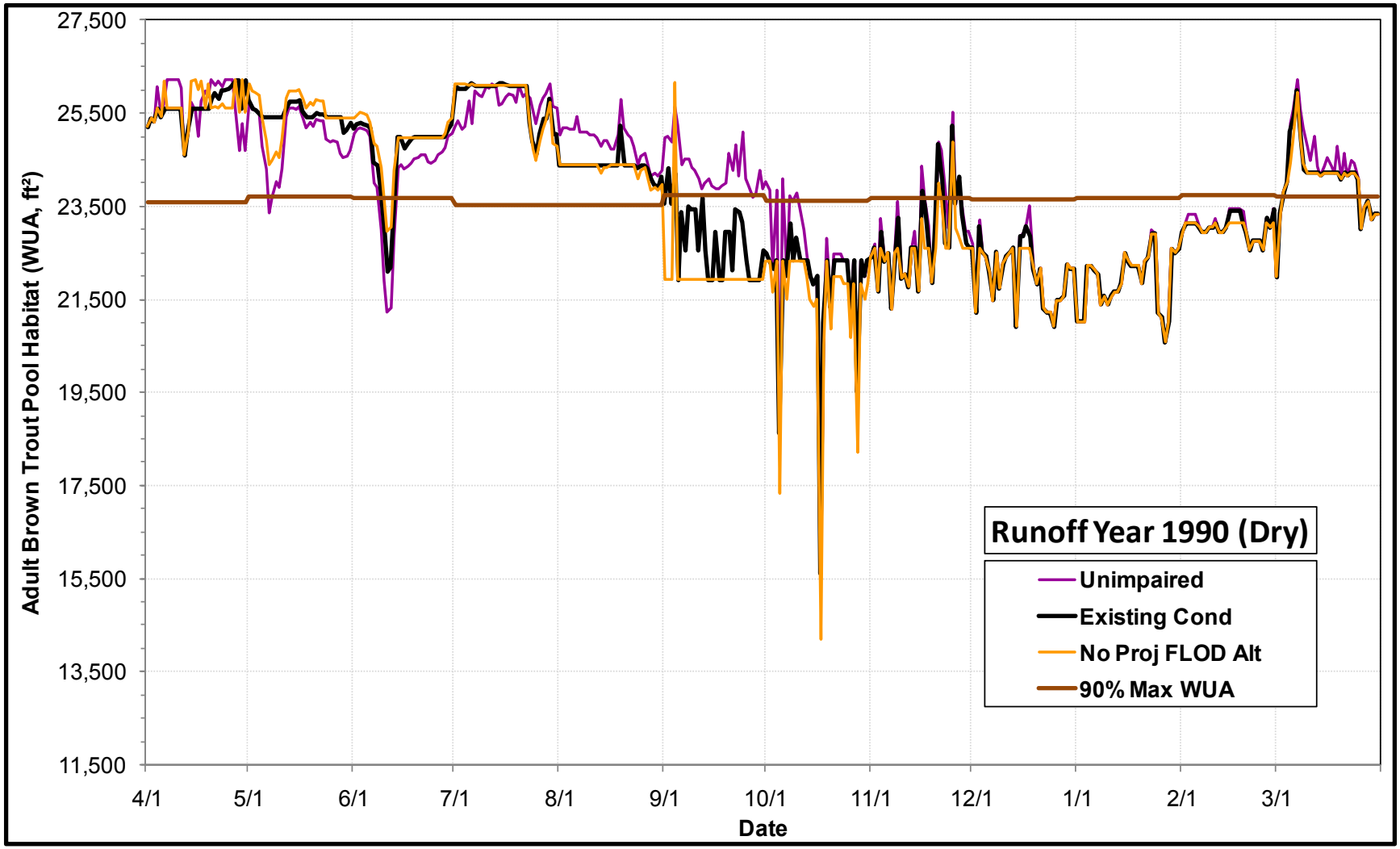
| Runoff Year | Runoff Year Type | Number of Days with OMR Gage Daily Flows ≥ $Q_{1.75}$ ($Q_{1.75}$ = 109.7 cfs) | | |
|---|---|---|---|---|
| | | No Proj FLOD Alt | Existing Cond | Unimpaired |
| 1988 | D | 0 | 0 | 0 |
| 1989 | N | 0 | 0 | 0 |
| 1990 | D | 0 | 0 | 0 |
| 1991 | N | 0 | 0 | 0 |
| 1992 | N | 8 | 11 | 13 |
| 1993 | W | 0 | 0 | 0 |
| 1994 | D | 42 | 44 | 47 |
| 1995 | W | 15 | 15 | 19 |
| 1996 | N | 5 | 7 | 8 |
| 1997 | N | 33 | 34 | 35 |
| 1998 | N | 6 | 7 | 7 |
| 1999 | N | 4 | 4 | 5 |
| 2000 | N | 0 | 0 | 0 |
| 2001 | N | 0 | 0 | 0 |
| 2002 | N | 4 | 7 | 10 |
| 2003 | N | 0 | 0 | 0 |
| 2004 | N | 31 | 34 | 40 |
| 2005 | W | 41 | 42 | 45 |
| 2006 | W | 0 | 0 | 0 |
| 2007 | D | 0 | 0 | 0 |
| Total | | 189 | 205 | 229 |



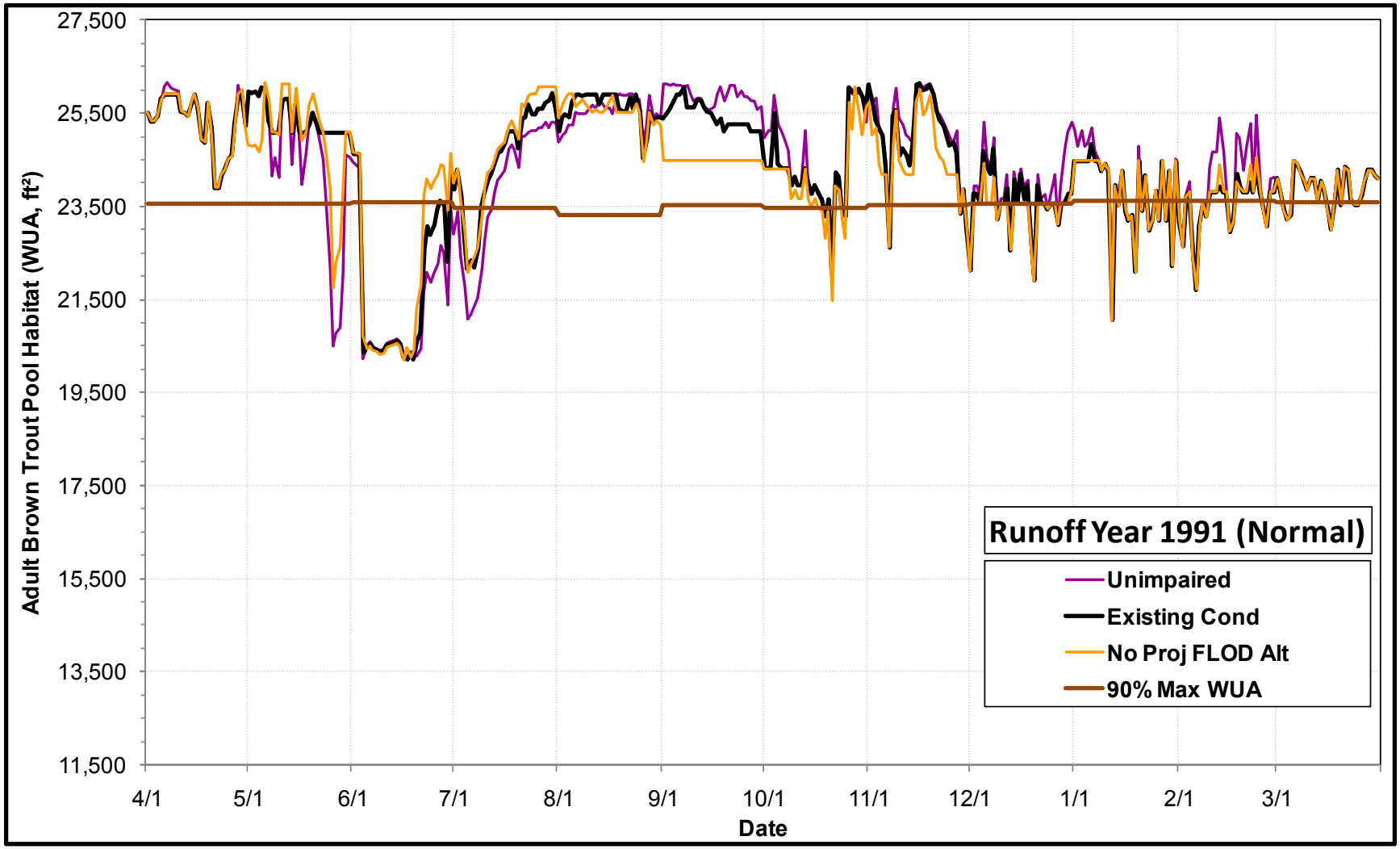

**Daily Time Series Comparing Adult Brown Trout Pool Habitat Availability (WUA, $ft^2$) to 90% of Maximum (Theoretical) Habitat Availability under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 1988**



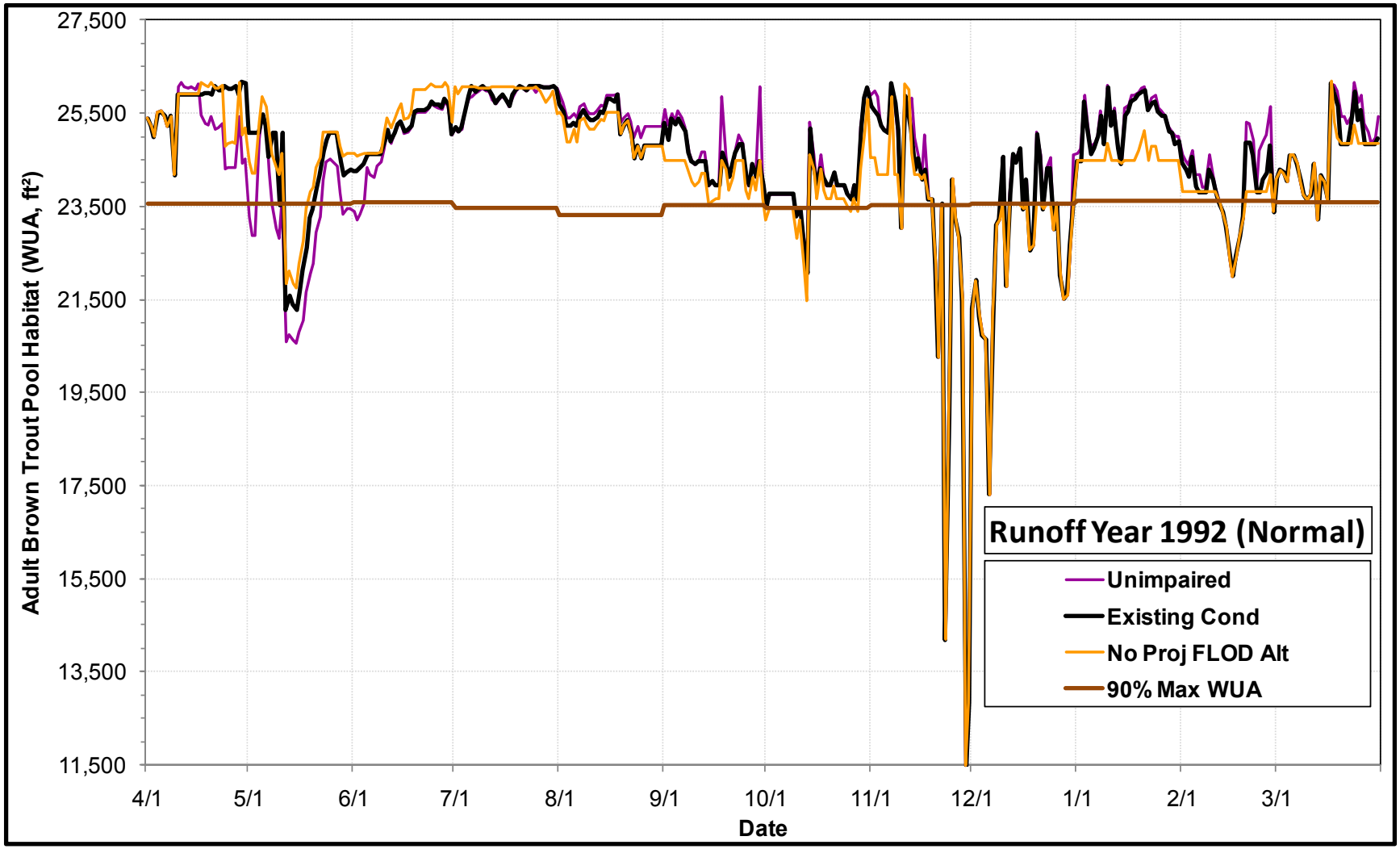

**Daily Time Series Comparing Adult Brown Trout Pool Habitat Availability (WUA, $ft^2$) to 90% of Maximum (Theoretical) Habitat Availability under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 1989**



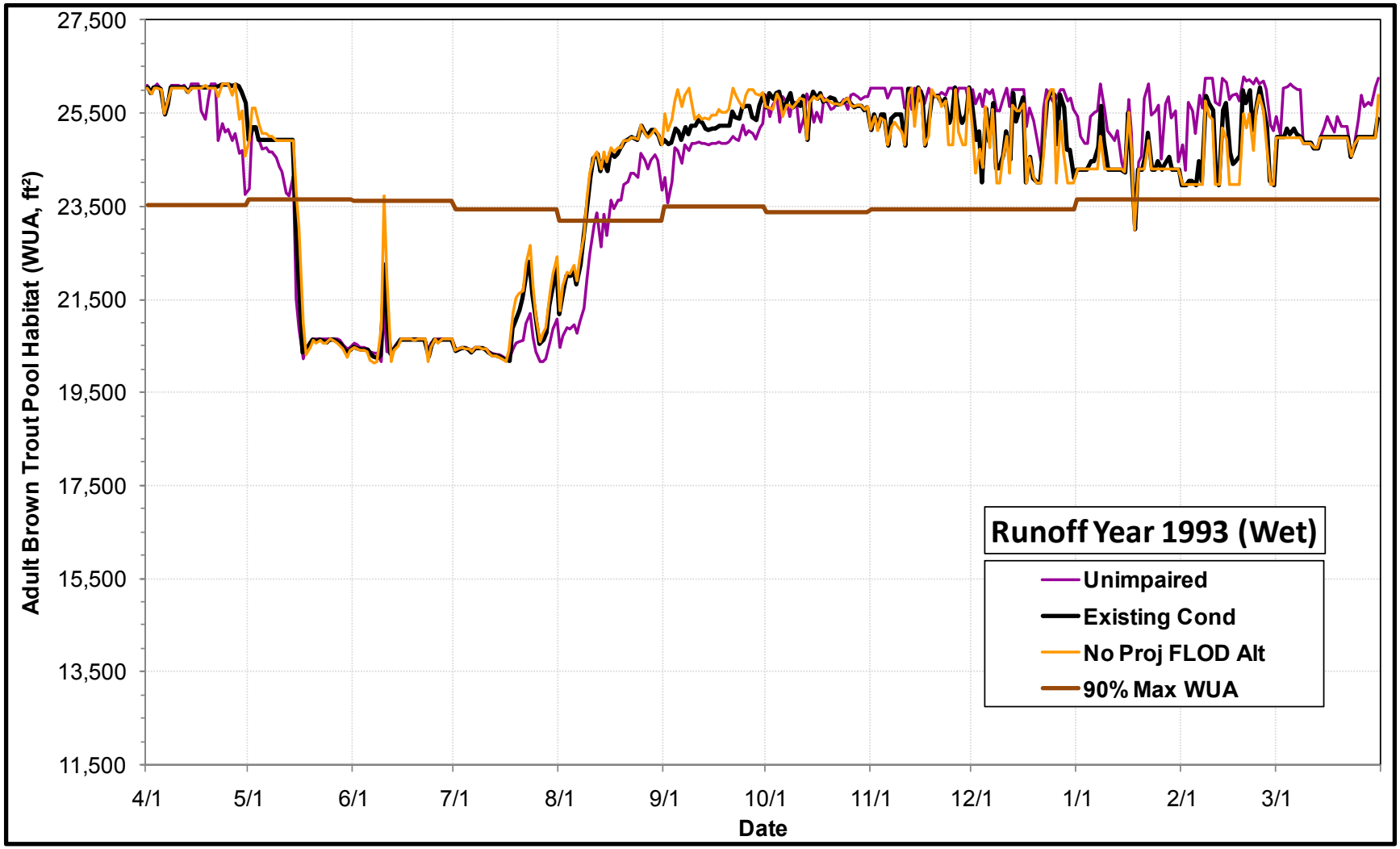

**Daily Time Series Comparing Adult Brown Trout Pool Habitat Availability (WUA, $ft^2$) to 90% of Maximum (Theoretical) Habitat Availability under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 1990**



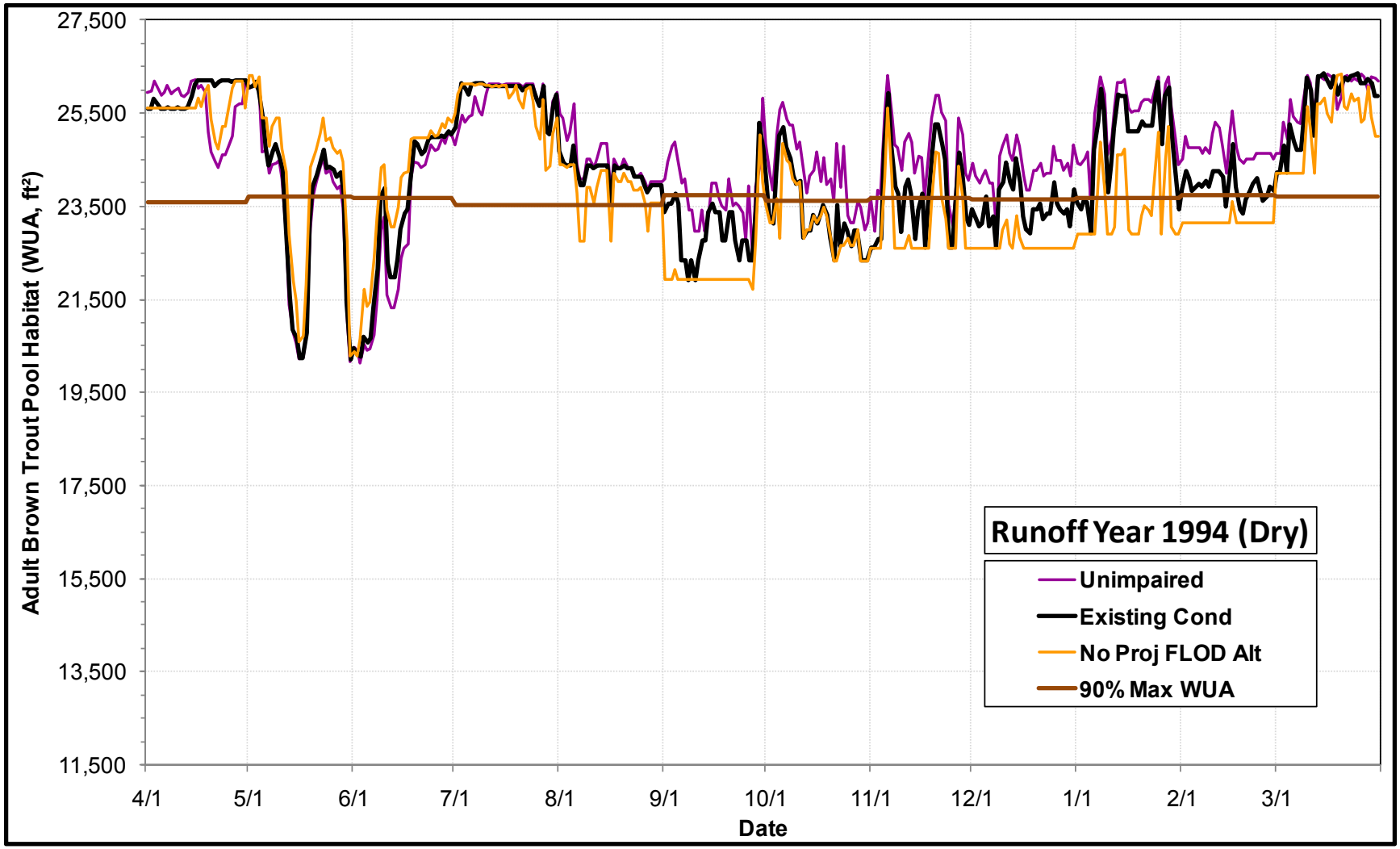

**Daily Time Series Comparing Adult Brown Trout Pool Habitat Availability (WUA, $ft^2$) to 90% of Maximum (Theoretical) Habitat Availability under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 1991**



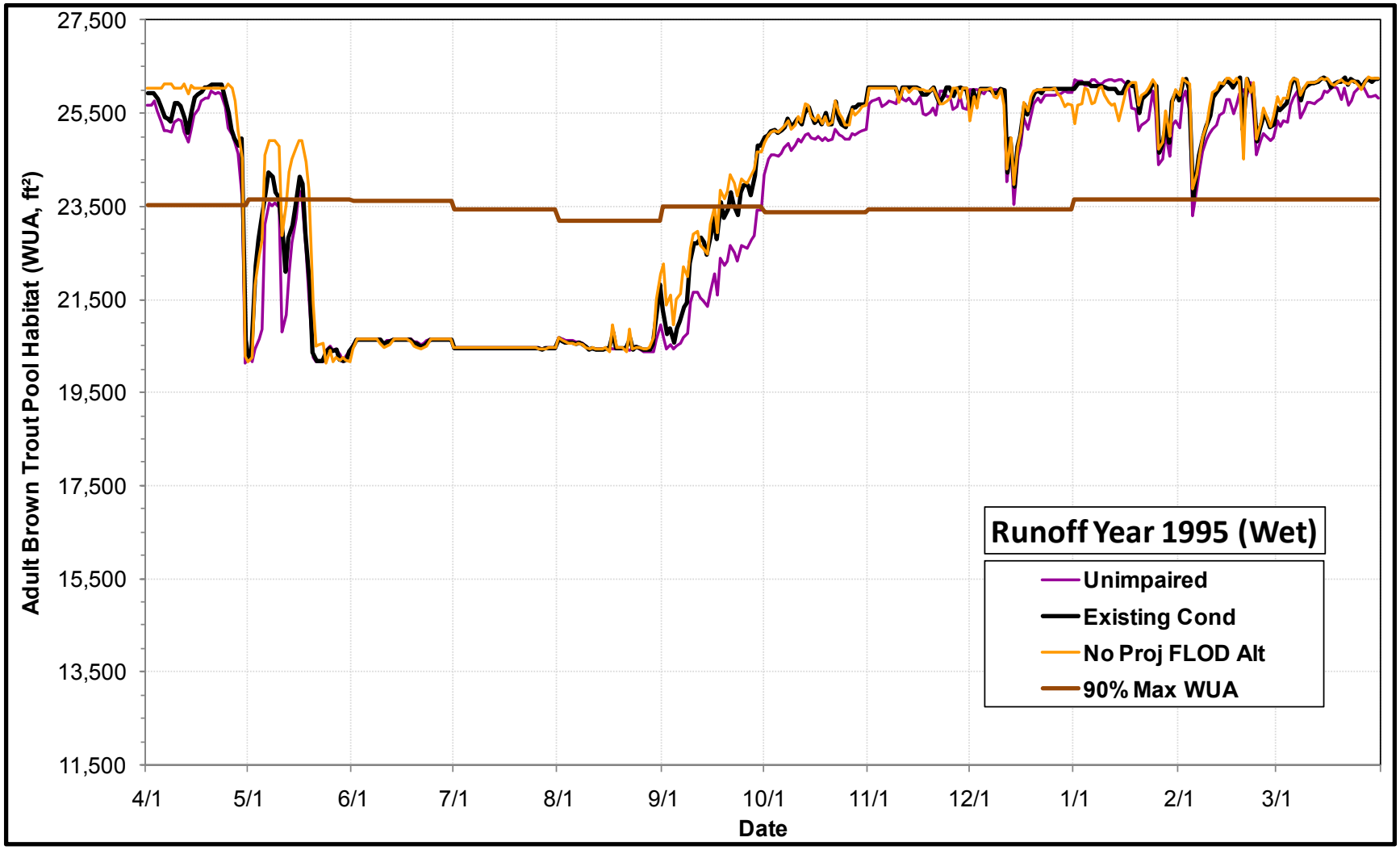

**Daily Time Series Comparing Adult Brown Trout Pool Habitat Availability (WUA, $ft^2$) to 90% of Maximum (Theoretical) Habitat Availability under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 1992**



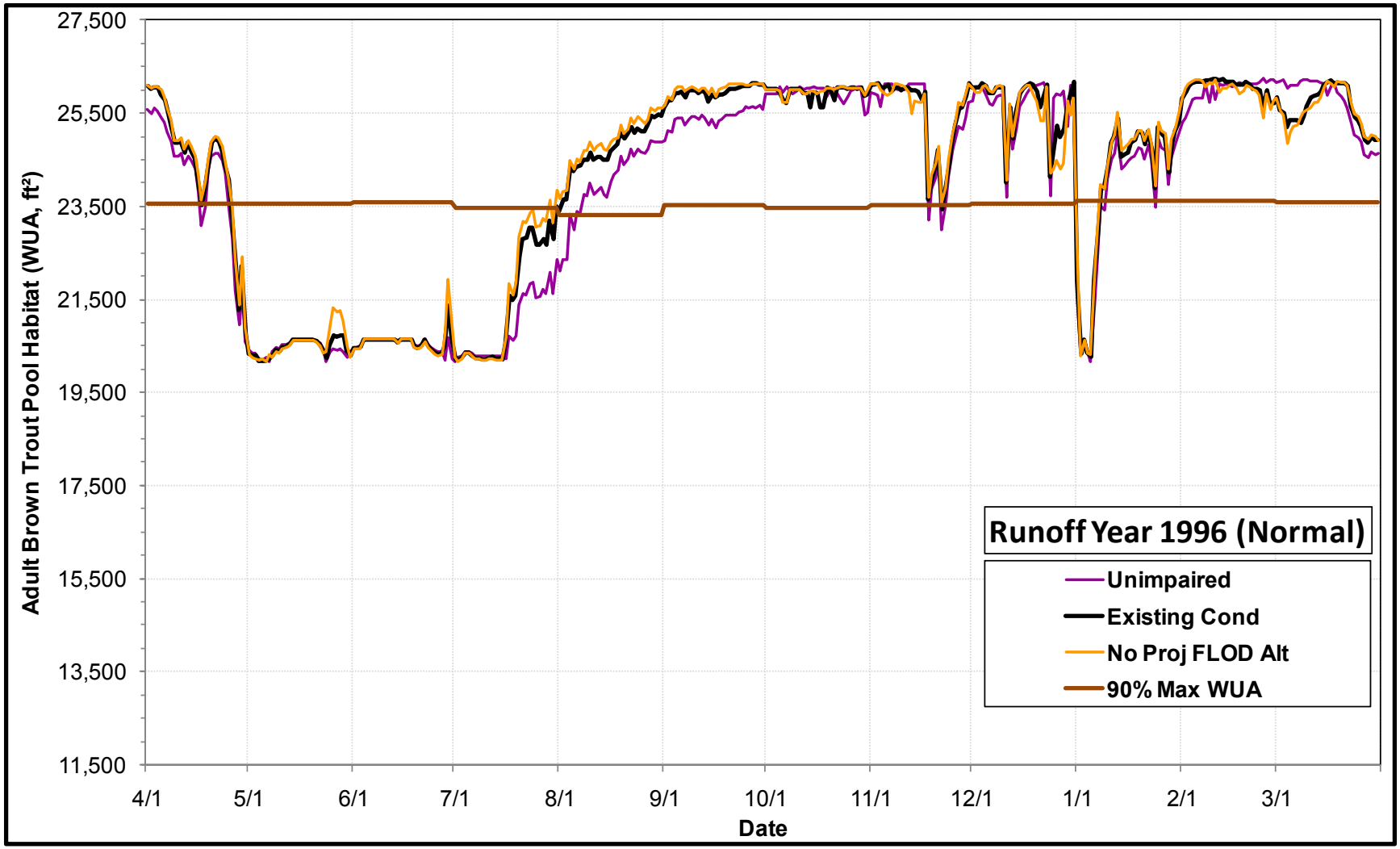

**Daily Time Series Comparing Adult Brown Trout Pool Habitat Availability (WUA, $ft^2$) to 90% of Maximum (Theoretical) Habitat Availability under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 1993**



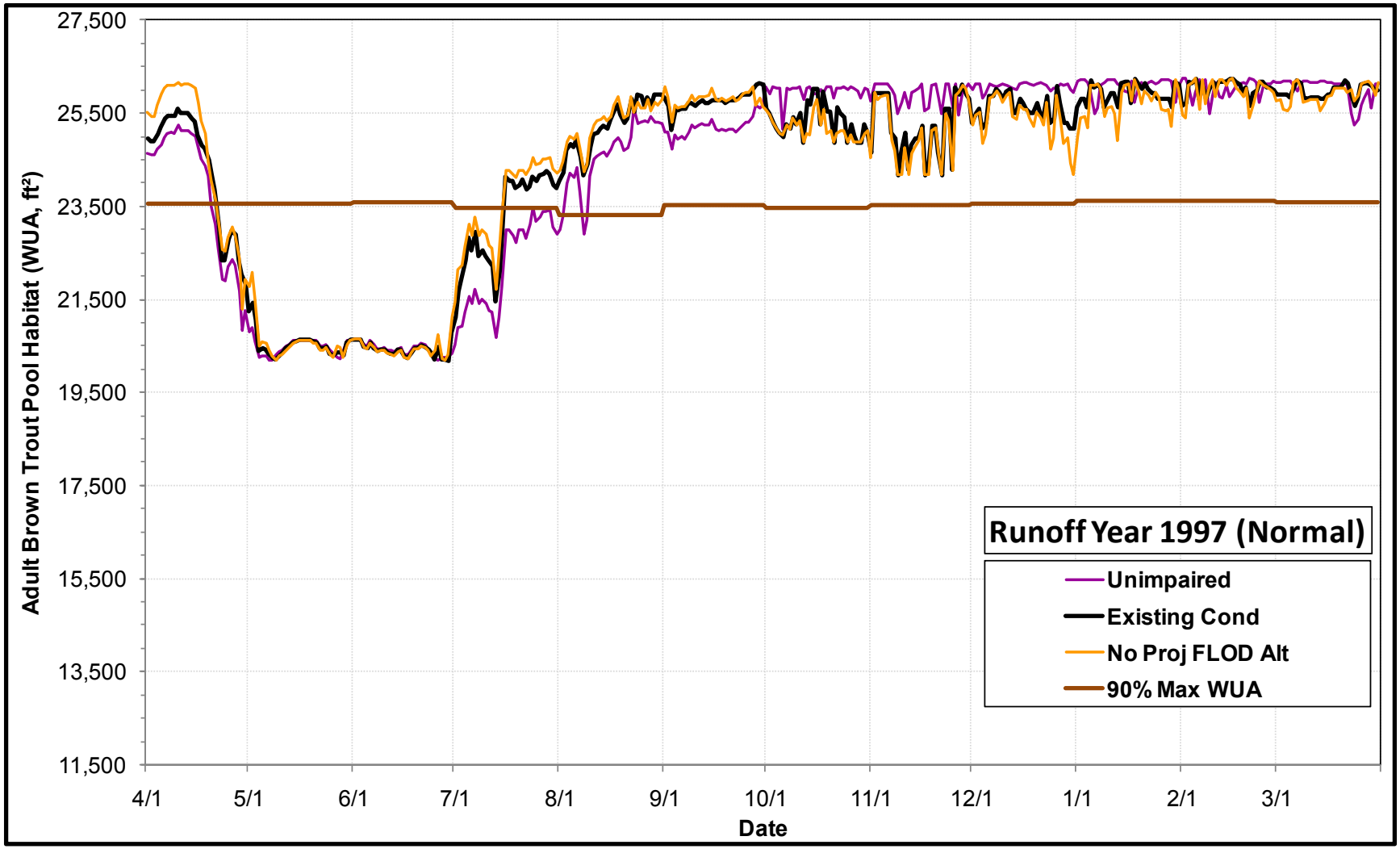

**Daily Time Series Comparing Adult Brown Trout Pool Habitat Availability (WUA, $ft^2$) to 90% of Maximum (Theoretical) Habitat Availability under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 1994**



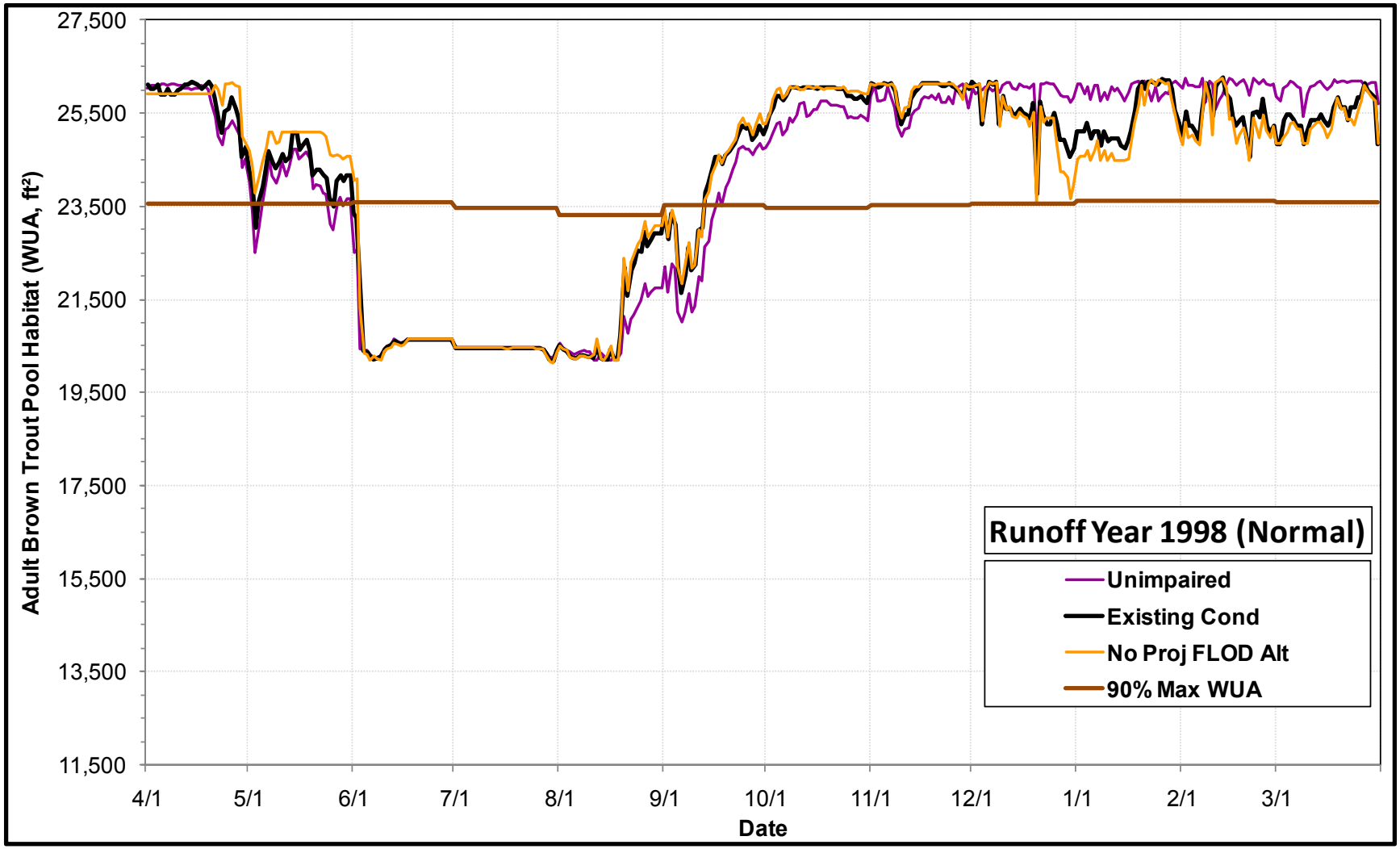

**Daily Time Series Comparing Adult Brown Trout Pool Habitat Availability (WUA, $ft^2$) to 90% of Maximum (Theoretical) Habitat Availability under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 1995**



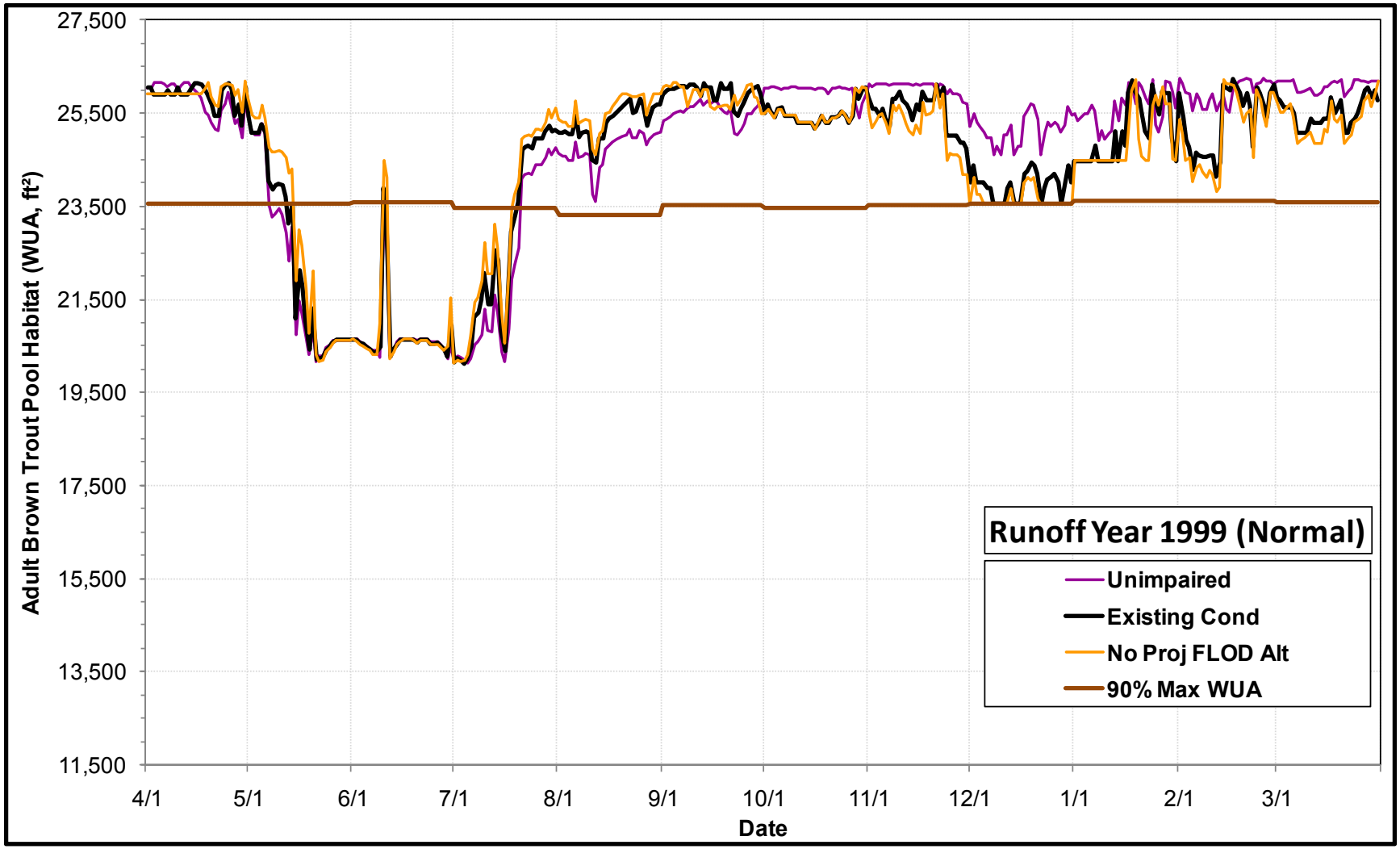

**Daily Time Series Comparing Adult Brown Trout Pool Habitat Availability (WUA, $ft^2$) to 90% of Maximum (Theoretical) Habitat Availability under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 1996**



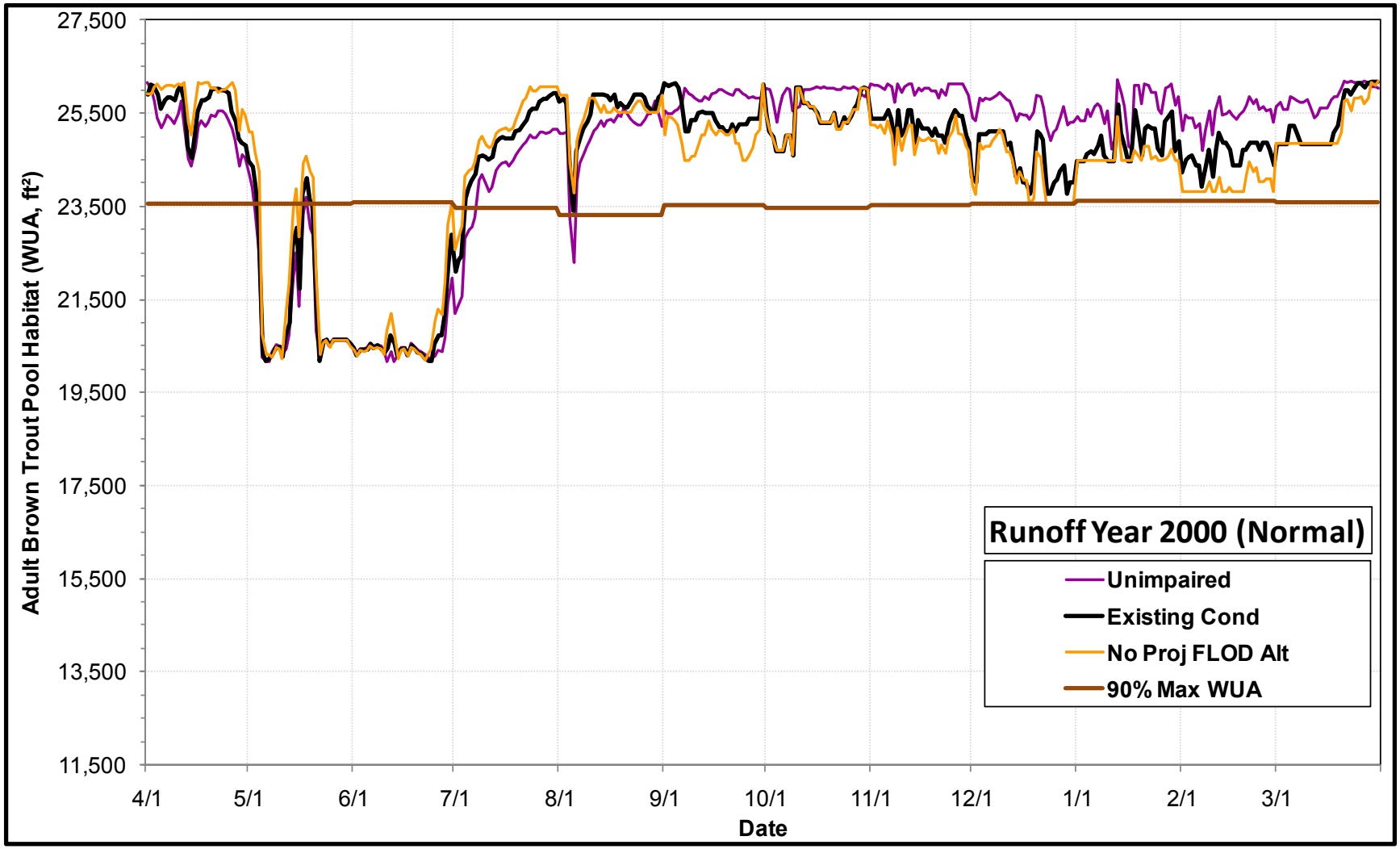

**Daily Time Series Comparing Adult Brown Trout Pool Habitat Availability (WUA, $ft^2$) to 90% of Maximum (Theoretical) Habitat Availability under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 1997**



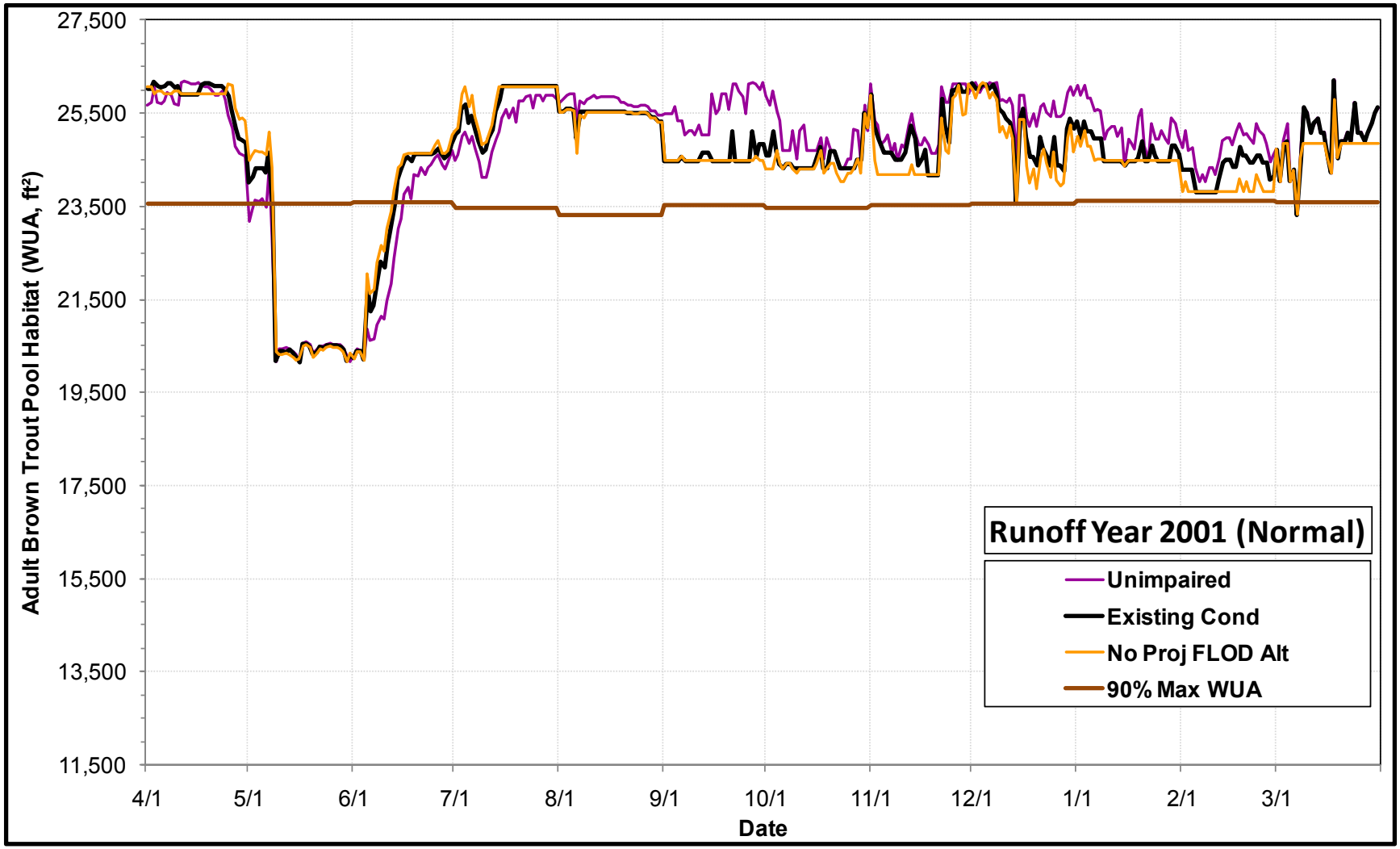

**Daily Time Series Comparing Adult Brown Trout Pool Habitat Availability (WUA, $ft^2$) to 90% of Maximum (Theoretical) Habitat Availability under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 1998**




**Daily Time Series Comparing Adult Brown Trout Pool Habitat Availability (WUA, $ft^2$) to 90% of Maximum (Theoretical) Habitat Availability under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 1999**




**Daily Time Series Comparing Adult Brown Trout Pool Habitat Availability (WUA, $ft^2$) to 90% of Maximum (Theoretical) Habitat Availability under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 2000**

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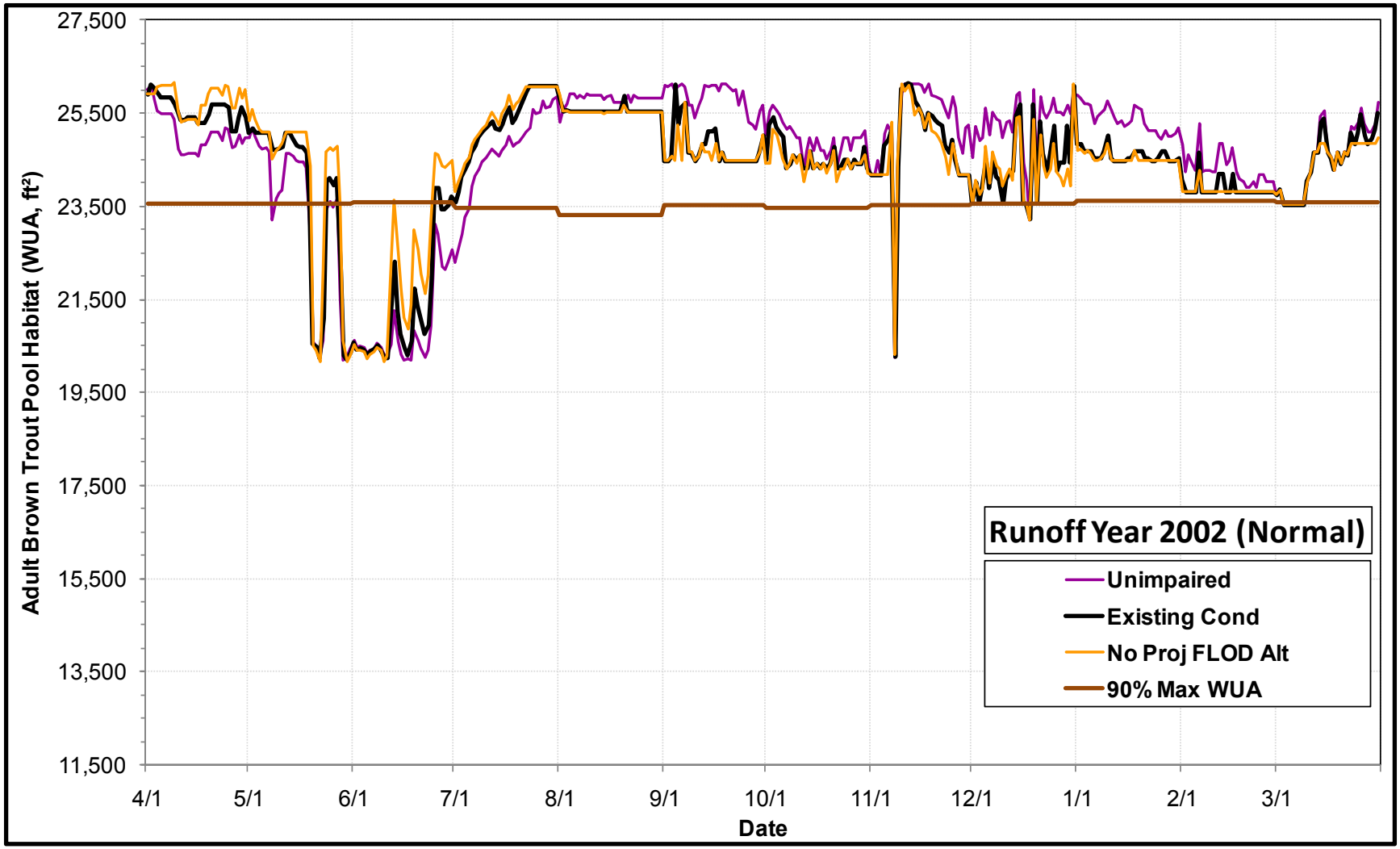
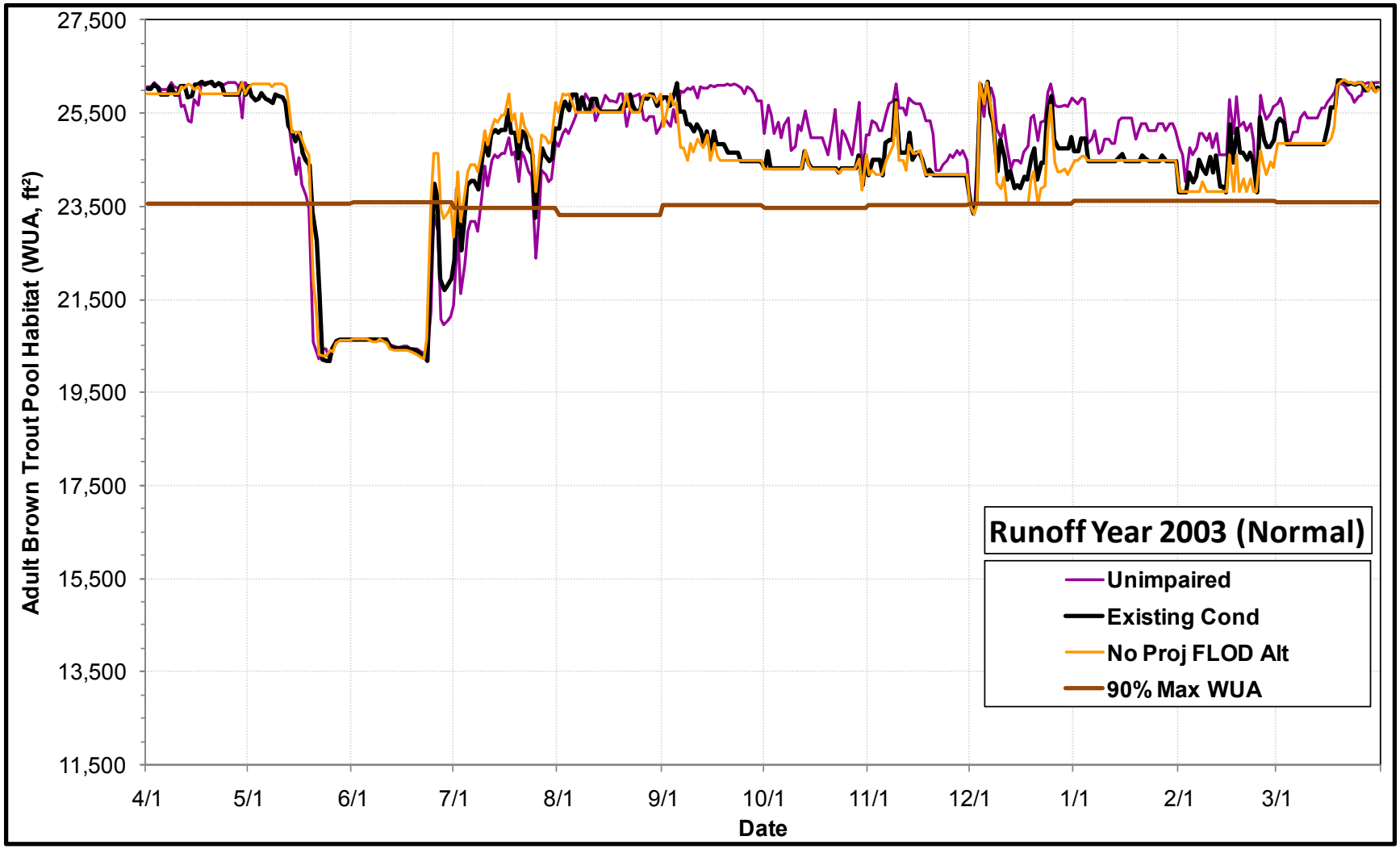
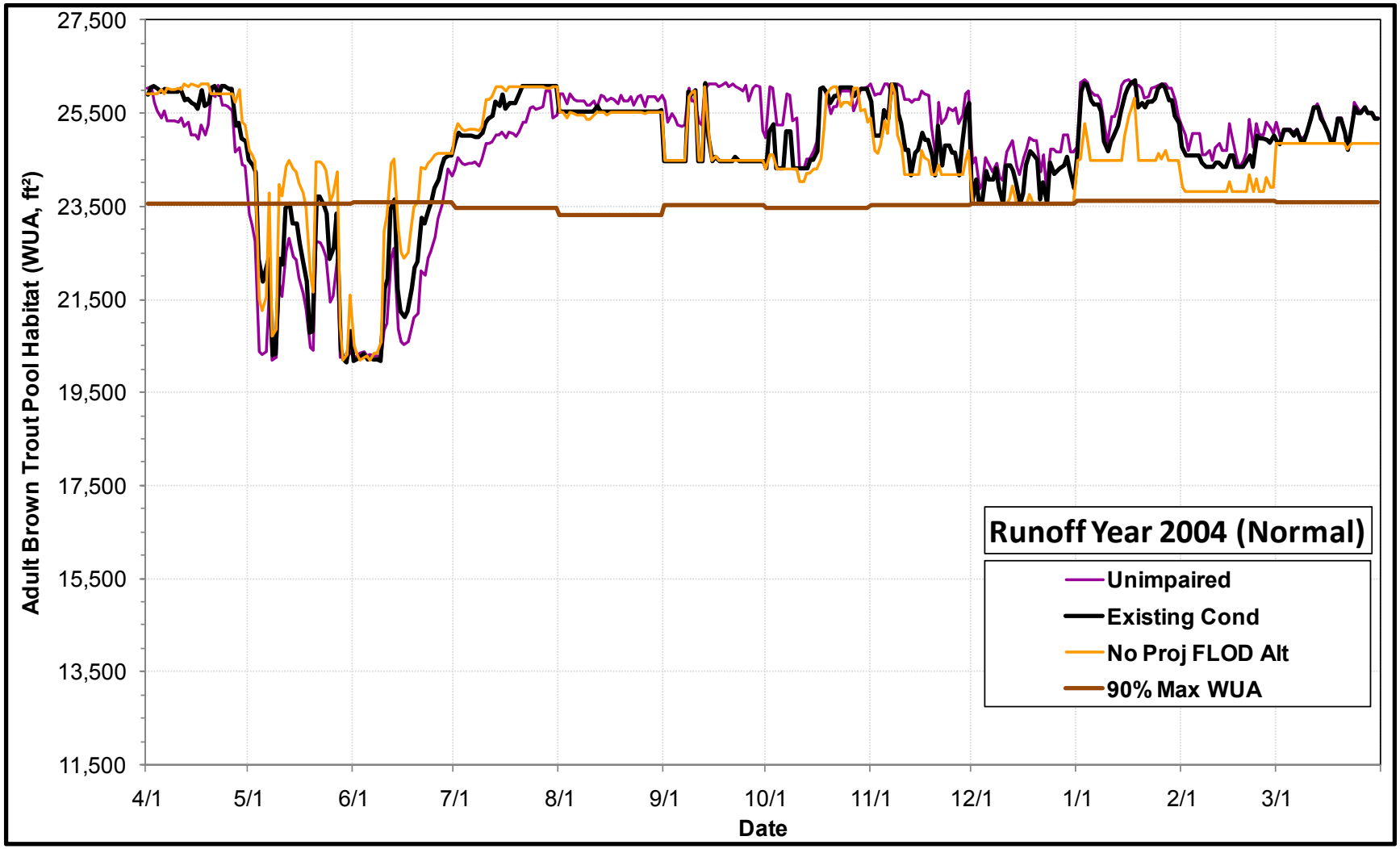


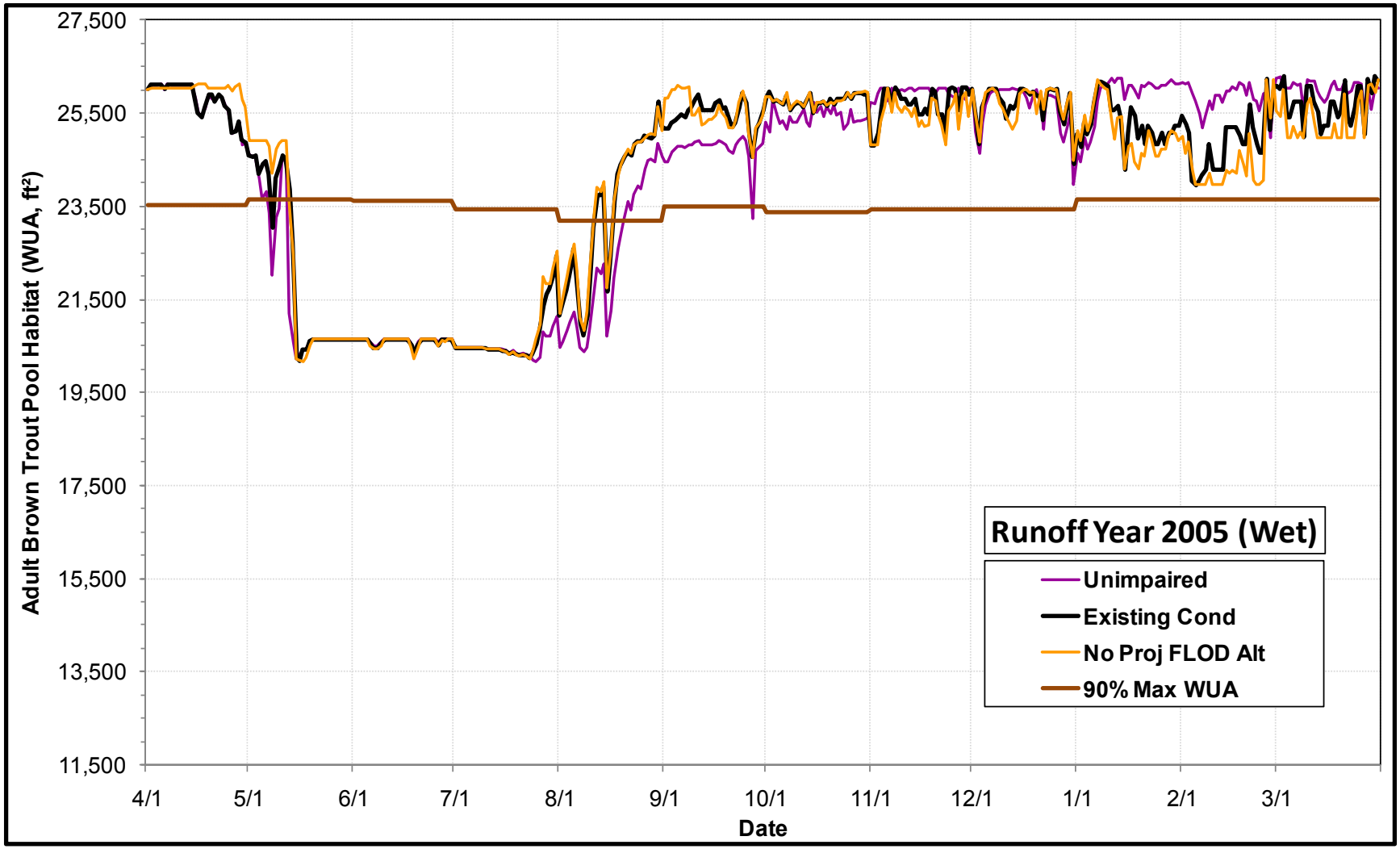

**Daily Time Series Comparing Adult Brown Trout Pool Habitat Availability (WUA, $ft^2$) to 90% of Maximum (Theoretical) Habitat Availability under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 2002**




**Daily Time Series Comparing Adult Brown Trout Pool Habitat Availability (WUA, $ft^2$) to 90% of Maximum (Theoretical) Habitat Availability under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 2003**




**Daily Time Series Comparing Adult Brown Trout Pool Habitat Availability (WUA, $ft^2$) to 90% of Maximum (Theoretical) Habitat Availability under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 2004**

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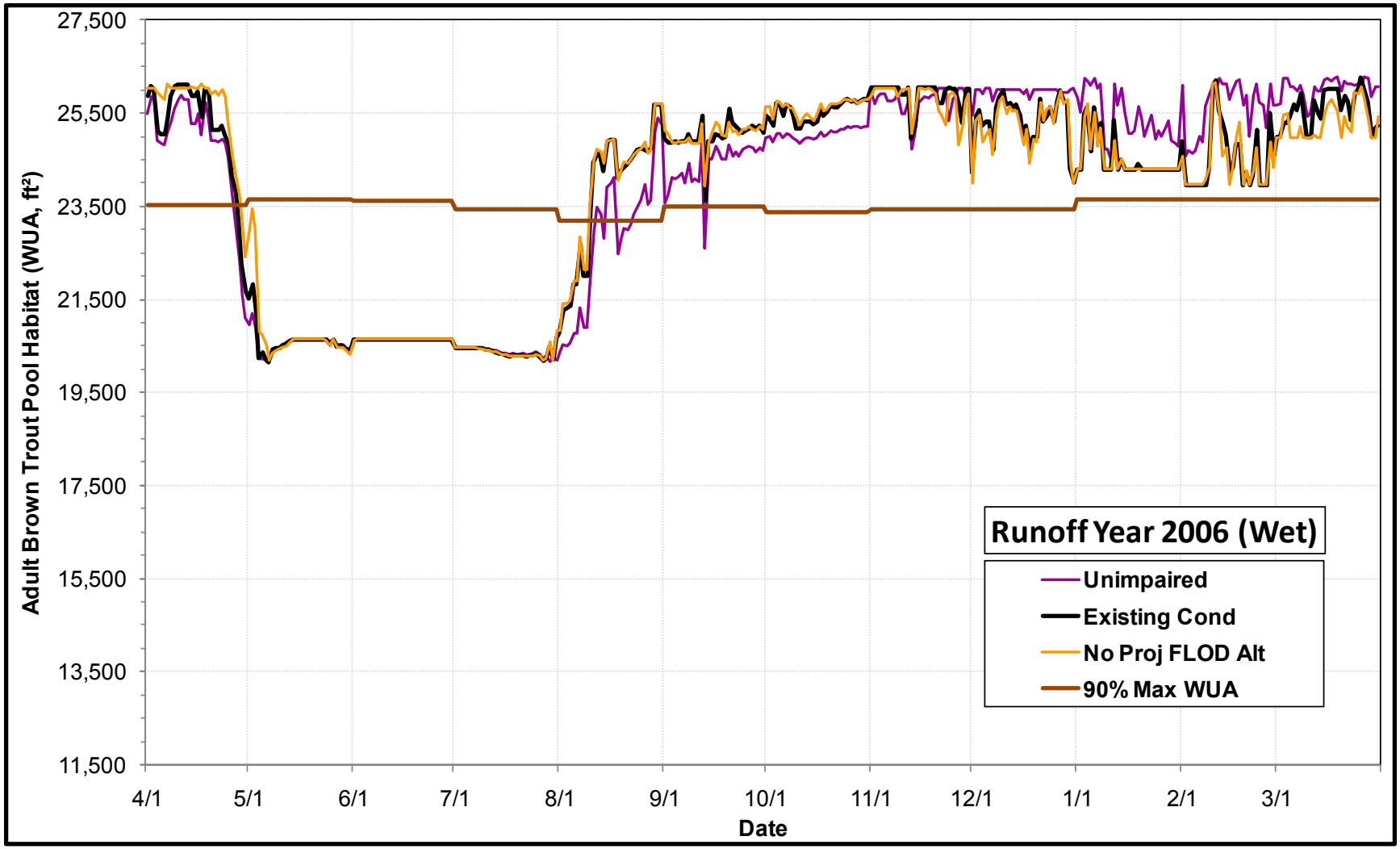
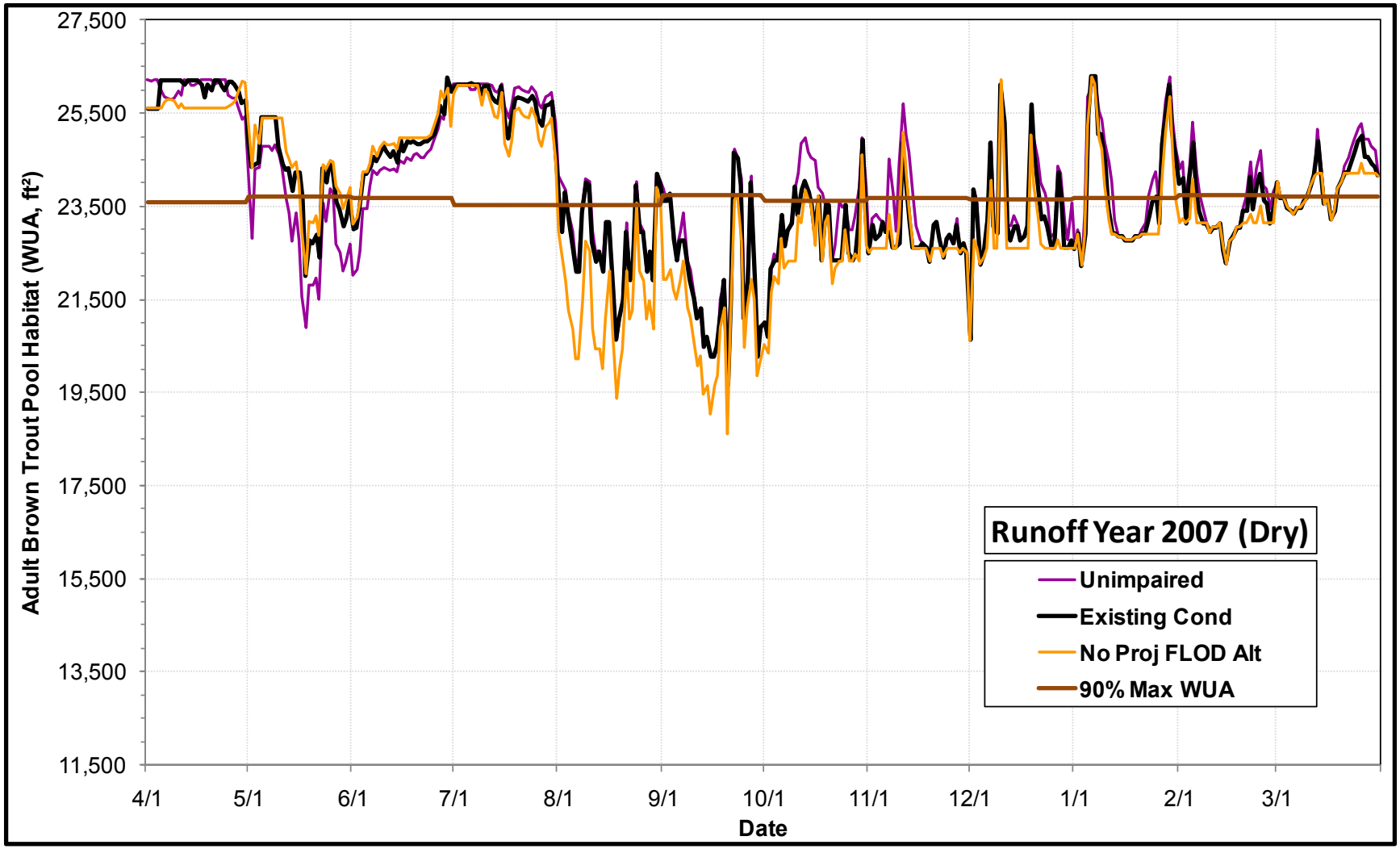



**Daily Time Series Comparing Adult Brown Trout Pool Habitat Availability (WUA, $ft^2$) to 90% of Maximum (Theoretical) Habitat Availability under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 2006**




**Daily Time Series Comparing Adult Brown Trout Pool Habitat Availability (WUA, $ft^2$) to 90% of Maximum (Theoretical) Habitat Availability under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 2007**

**Monthly Averages of Daily Flows (cfs) at the OLD395 Gage by Runoff Year and Runoff Year Type for the 20-Year Evaluation Period under the No Project Alternative (Future Level of Demand)**

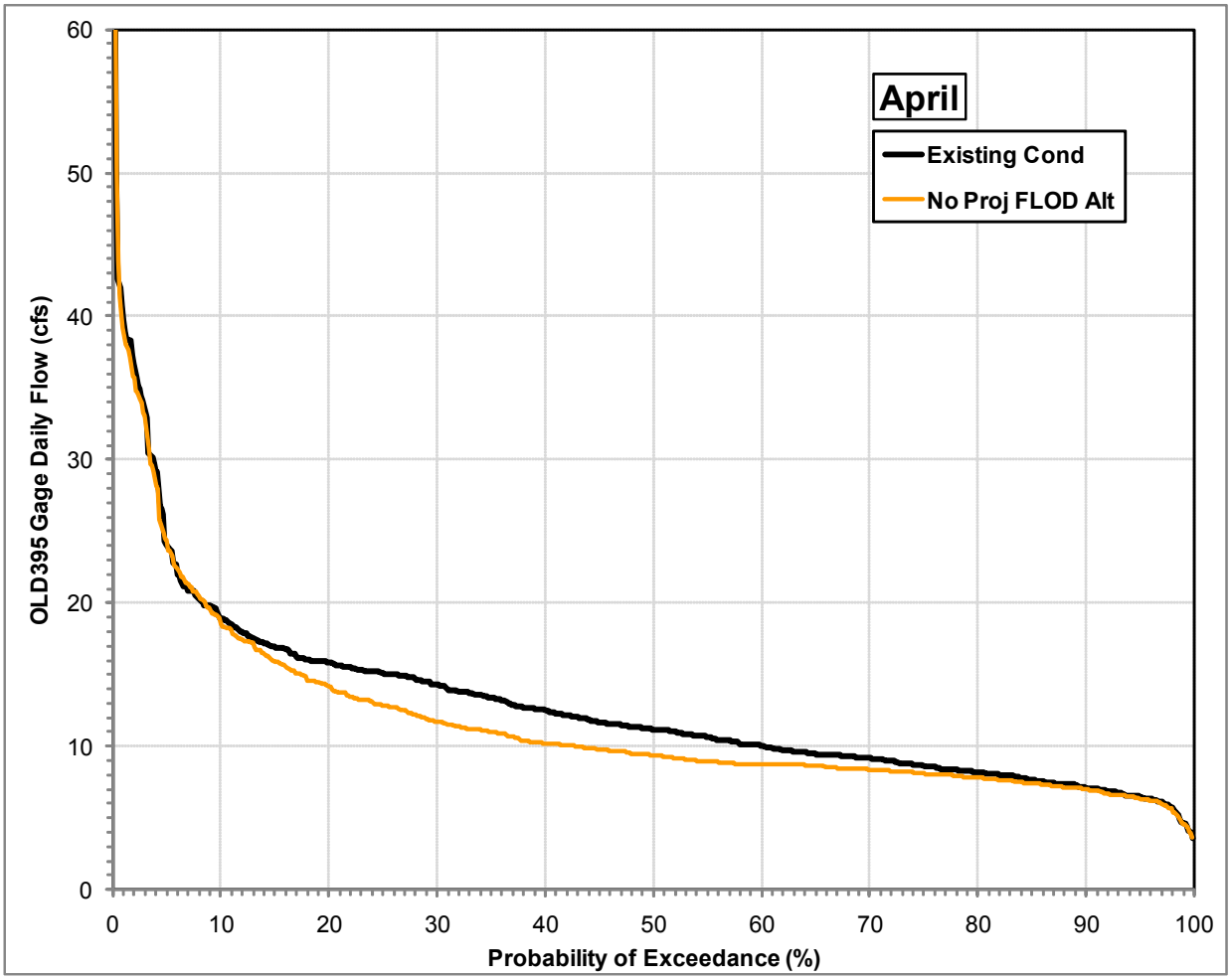
| Runoff Year | Runoff Year Type | Average OLD395 Gage Daily Flow (cfs) under the No Proj FLOD Alt | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Annual |
| **1988** | **D** | 8.4 | 19.3 | 17.9 | 10.7 | 5.9 | 4.0 | 3.3 | 4.6 | 3.8 | 4.4 | 3.9 | 6.3 | 7.7 |
| **1989** | **N** | 13.7 | 22.0 | 20.5 | 8.2 | 5.1 | 4.2 | 4.8 | 6.0 | 3.9 | 4.6 | 4.3 | 4.7 | 8.5 |
| **1990** | **D** | 9.2 | 16.5 | 17.6 | 9.2 | 5.9 | 4.2 | 3.6 | 4.1 | 2.8 | 2.5 | 3.7 | 5.3 | 7.1 |
| **1991** | **N** | 6.2 | 14.7 | 46.7 | 18.8 | 5.9 | 4.3 | 4.6 | 5.9 | 4.6 | 4.1 | 4.1 | 4.2 | 10.3 |
| **1992** | **N** | 10.1 | 23.8 | 16.4 | 8.3 | 5.2 | 4.2 | 3.4 | 3.7 | 2.2 | 1.9 | 3.2 | 5.2 | 7.3 |
| **1993** | **W** | 10.4 | 50.2 | 86.8 | 64.7 | 24.4 | 12.2 | 8.0 | 6.8 | 5.7 | 5.7 | 5.6 | 5.5 | 23.9 |
| **1994** | **D** | 9.9 | 21.6 | 27.2 | 8.6 | 4.4 | 4.8 | 5.4 | 4.2 | 4.8 | 4.3 | 4.6 | 7.2 | 8.9 |
| **1995** | **W** | 12.0 | 39.7 | 129.9 | 182.1 | 81.8 | 36.9 | 21.0 | 12.9 | 12.4 | 10.3 | 14.0 | 12.1 | 47.3 |
| **1996** | **N** | 24.0 | 85.7 | 108.0 | 54.3 | 26.3 | 14.9 | 11.5 | 15.1 | 12.2 | 40.1 | 12.0 | 13.1 | 34.9 |
| **1997** | **N** | 21.8 | 77.3 | 81.8 | 37.5 | 20.6 | 15.8 | 10.2 | 9.5 | 7.9 | 9.4 | 9.0 | 9.9 | 26.0 |
| **1998** | **N** | 10.1 | 21.2 | 107.0 | 144.6 | 55.9 | 30.6 | 16.1 | 14.8 | 10.0 | 8.9 | 9.0 | 8.2 | 36.5 |
| **1999** | **N** | 10.9 | 46.8 | 80.0 | 34.1 | 15.1 | 10.5 | 8.1 | 7.5 | 4.4 | 6.4 | 7.2 | 6.9 | 19.8 |
| **2000** | **N** | 11.3 | 54.4 | 61.6 | 19.6 | 11.8 | 7.5 | 8.3 | 6.1 | 6.0 | 5.3 | 5.0 | 6.7 | 17.0 |
| **2001** | **N** | 9.3 | 58.0 | 32.1 | 13.5 | 7.6 | 5.5 | 5.1 | 5.5 | 6.2 | 4.9 | 4.6 | 5.8 | 13.2 |
| **2002** | **N** | 13.0 | 27.5 | 44.1 | 16.8 | 8.2 | 6.4 | 5.3 | 9.6 | 5.0 | 5.4 | 5.1 | 6.7 | 12.8 |
| **2003** | **N** | 9.3 | 37.2 | 75.4 | 23.2 | 10.9 | 7.1 | 6.4 | 5.7 | 5.9 | 6.1 | 5.8 | 8.2 | 16.7 |
| **2004** | **N** | 10.6 | 31.3 | 36.7 | 12.2 | 8.7 | 5.2 | 7.1 | 6.0 | 4.8 | 5.8 | 5.9 | 6.8 | 11.8 |
| **2005** | **W** | 10.3 | 69.7 | 118.4 | 89.4 | 31.3 | 14.9 | 11.0 | 9.1 | 11.7 | 7.6 | 6.5 | 7.9 | 32.5 |
| **2006** | **W** | 14.4 | 99.2 | 170.4 | 98.3 | 32.9 | 17.5 | 10.5 | 9.6 | 8.8 | 7.6 | 7.2 | 7.6 | 40.5 |
| **2007** | **D** | 8.8 | 26.0 | 23.8 | 9.4 | 4.6 | 4.3 | 4.6 | 4.5 | 4.1 | 5.8 | 5.3 | 5.0 | 8.8 |
| **Average** | | 11.7 | 42.1 | 65.1 | 43.2 | 18.6 | 10.7 | 7.9 | 7.6 | 6.4 | 7.6 | 6.3 | 7.2 | 19.6 |

**Monthly Averages of Daily Flows (cfs) at the OLD395 Gage by Runoff Year and Runoff Year Type for the 20-Year Evaluation Period under the Existing Condition**

| Runoff Year | Runoff Year Type | Average OLD395 Gage Daily Flow (cfs) under the Existing Cond | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Annual |
| **1988** | **D** | 8.8 | 17.8 | 21.7 | 11.0 | 6.2 | 4.1 | 3.5 | 4.8 | 3.8 | 4.4 | 3.9 | 6.4 | 8.0 |
| **1989** | **N** | 10.0 | 22.4 | 23.1 | 8.5 | 5.1 | 4.6 | 4.9 | 6.3 | 4.0 | 4.5 | 4.1 | 4.6 | 8.5 |
| **1990** | **D** | 8.3 | 16.5 | 19.1 | 9.5 | 6.0 | 4.5 | 3.9 | 4.4 | 2.9 | 2.5 | 3.7 | 5.3 | 7.2 |
| **1991** | **N** | 6.2 | 13.3 | 51.1 | 19.8 | 6.9 | 5.7 | 5.0 | 6.8 | 4.7 | 4.2 | 4.0 | 4.2 | 11.0 |
| **1992** | **N** | 7.4 | 24.9 | 18.4 | 10.0 | 5.5 | 4.7 | 3.8 | 4.6 | 2.6 | 3.4 | 3.6 | 5.5 | 7.9 |
| **1993** | **W** | 9.7 | 53.2 | 92.6 | 65.8 | 24.6 | 14.2 | 8.3 | 7.2 | 6.2 | 5.9 | 6.1 | 5.5 | 25.1 |
| **1994** | **D** | 9.2 | 27.6 | 31.3 | 9.5 | 4.9 | 4.9 | 5.6 | 5.2 | 5.9 | 7.1 | 5.9 | 9.5 | 10.6 |
| **1995** | **W** | 15.3 | 46.1 | 138.2 | 184.1 | 83.3 | 38.3 | 21.0 | 13.3 | 13.0 | 11.1 | 14.6 | 12.4 | 49.4 |
| **1996** | **N** | 24.6 | 89.3 | 110.9 | 56.0 | 27.5 | 15.4 | 11.4 | 15.5 | 12.9 | 40.8 | 12.5 | 13.4 | 36.0 |
| **1997** | **N** | 24.1 | 80.2 | 84.1 | 39.3 | 21.6 | 16.4 | 10.5 | 9.7 | 8.4 | 10.1 | 9.4 | 10.3 | 27.1 |
| **1998** | **N** | 12.0 | 25.8 | 111.2 | 146.6 | 56.8 | 31.0 | 16.7 | 15.3 | 10.3 | 9.6 | 9.3 | 8.5 | 37.9 |
| **1999** | **N** | 12.0 | 51.2 | 84.0 | 36.1 | 16.6 | 11.4 | 8.3 | 8.1 | 4.8 | 7.1 | 7.9 | 7.3 | 21.2 |
| **2000** | **N** | 14.5 | 59.0 | 65.1 | 21.7 | 12.9 | 8.5 | 8.3 | 6.7 | 6.4 | 5.9 | 6.1 | 7.2 | 18.6 |
| **2001** | **N** | 11.7 | 61.8 | 33.2 | 14.3 | 7.6 | 5.6 | 5.3 | 6.1 | 6.9 | 5.2 | 5.3 | 6.3 | 14.2 |
| **2002** | **N** | 15.1 | 30.6 | 49.9 | 17.5 | 8.2 | 6.6 | 5.5 | 10.1 | 5.2 | 5.5 | 5.2 | 6.9 | 13.9 |
| **2003** | **N** | 10.4 | 38.6 | 82.6 | 25.6 | 11.8 | 8.0 | 6.4 | 5.8 | 6.5 | 6.2 | 6.5 | 8.5 | 18.0 |
| **2004** | **N** | 14.0 | 36.7 | 41.8 | 13.4 | 8.8 | 5.3 | 8.3 | 6.7 | 5.5 | 8.0 | 7.1 | 7.6 | 13.6 |
| **2005** | **W** | 13.1 | 76.0 | 124.4 | 90.4 | 31.5 | 15.2 | 10.9 | 9.7 | 12.5 | 8.2 | 7.4 | 9.0 | 34.2 |
| **2006** | **W** | 17.8 | 104.6 | 173.2 | 99.6 | 33.2 | 17.5 | 10.9 | 10.2 | 9.1 | 7.6 | 7.3 | 8.3 | 41.7 |
| **2007** | **D** | 11.6 | 28.4 | 25.0 | 10.0 | 5.3 | 4.9 | 4.9 | 4.6 | 4.8 | 6.2 | 5.8 | 5.2 | 9.7 |
| **Average** | | 12.8 | 45.2 | 69.0 | 44.4 | 19.2 | 11.3 | 8.2 | 8.1 | 6.8 | 8.2 | 6.8 | 7.6 | 20.7 |

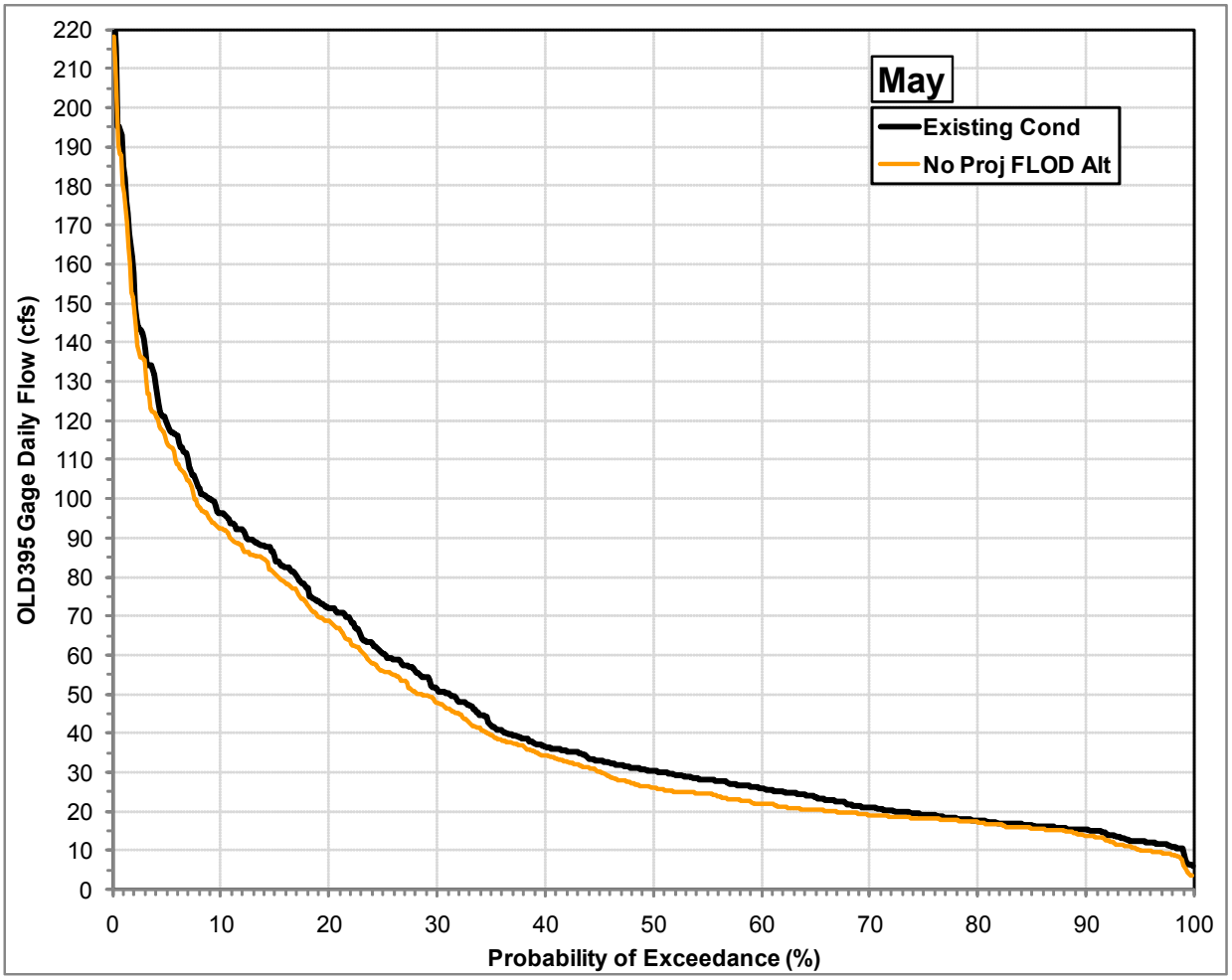
**Differences in Monthly Averages of Daily Flows (cfs) at the OLD395 Gage by Runoff Year and Runoff Year Type for the 20-Year Evaluation Period under the No Project Alternative (Future Level of Demand) Relative to the Existing Condition. Positive Values Indicate that the No Project Alternative (Future Level of Demand) Flows are Higher than the Existing Condition Flows**

| Runoff Year | Runoff Year Type | Average OLD395 Gage Daily Flow (cfs) Differences (No Proj FLOD Alt - Existing Cond) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Annual |
| 1988 | D | -0.4 | 1.4 | -3.8 | -0.3 | -0.3 | -0.1 | -0.2 | -0.2 | 0.0 | 0.0 | 0.0 | -0.1 | -0.3 |
| 1989 | N | 3.7 | -0.4 | -2.6 | -0.4 | 0.0 | -0.5 | -0.1 | -0.3 | -0.1 | 0.1 | 0.1 | 0.1 | 0.0 |
| 1990 | D | 0.9 | 0.0 | -1.5 | -0.3 | -0.1 | -0.3 | -0.2 | -0.3 | -0.1 | 0.0 | -0.1 | -0.1 | -0.2 |
| 1991 | N | 0.0 | 1.4 | -4.4 | -1.0 | -1.0 | -1.4 | -0.5 | -0.9 | -0.2 | 0.0 | 0.1 | 0.0 | -0.7 |
| 1992 | N | 2.7 | -1.1 | -2.0 | -1.7 | -0.3 | -0.5 | -0.4 | -0.8 | -0.4 | -1.5 | -0.4 | -0.3 | -0.6 |
| 1993 | W | 0.6 | -3.1 | -5.9 | -1.2 | -0.2 | -2.0 | -0.3 | -0.4 | -0.5 | -0.2 | -0.5 | 0.0 | -1.1 |
| 1994 | D | 0.7 | -6.0 | -4.1 | -0.9 | -0.5 | -0.1 | -0.2 | -0.9 | -1.1 | -2.8 | -1.3 | -2.3 | -1.6 |
| 1995 | W | -3.3 | -6.4 | -8.3 | -2.0 | -1.5 | -1.4 | 0.1 | -0.4 | -0.7 | -0.8 | -0.5 | -0.3 | -2.1 |
| 1996 | N | -0.6 | -3.6 | -2.9 | -1.7 | -1.2 | -0.5 | 0.0 | -0.4 | -0.7 | -0.7 | -0.5 | -0.3 | -1.1 |
| 1997 | N | -2.4 | -3.0 | -2.3 | -1.8 | -0.9 | -0.6 | -0.4 | -0.2 | -0.5 | -0.6 | -0.5 | -0.4 | -1.1 |
| 1998 | N | -1.9 | -4.7 | -4.2 | -2.1 | -1.0 | -0.4 | -0.6 | -0.5 | -0.3 | -0.7 | -0.4 | -0.3 | -1.4 |
| 1999 | N | -1.1 | -4.4 | -3.9 | -2.0 | -1.5 | -1.0 | -0.1 | -0.7 | -0.3 | -0.7 | -0.7 | -0.4 | -1.4 |
| 2000 | N | -3.2 | -4.5 | -3.4 | -2.1 | -1.1 | -0.9 | -0.1 | -0.5 | -0.4 | -0.6 | -1.2 | -0.5 | -1.5 |
| 2001 | N | -2.4 | -3.8 | -1.1 | -0.8 | 0.0 | -0.1 | -0.1 | -0.7 | -0.6 | -0.3 | -0.7 | -0.5 | -0.9 |
| 2002 | N | -2.1 | -3.1 | -5.9 | -0.7 | 0.0 | -0.2 | -0.2 | -0.5 | -0.2 | -0.1 | -0.1 | -0.2 | -1.1 |
| 2003 | N | -1.1 | -1.3 | -7.3 | -2.4 | -0.9 | -0.8 | 0.0 | -0.1 | -0.6 | -0.1 | -0.7 | -0.3 | -1.3 |
| 2004 | N | -3.4 | -5.3 | -5.2 | -1.2 | -0.1 | 0.0 | -1.2 | -0.7 | -0.7 | -2.2 | -1.2 | -0.8 | -1.8 |
| 2005 | W | -2.9 | -6.3 | -6.0 | -1.0 | -0.3 | -0.3 | 0.0 | -0.6 | -0.8 | -0.6 | -0.9 | -1.1 | -1.7 |
| 2006 | W | -3.5 | -5.4 | -2.8 | -1.3 | -0.3 | 0.0 | -0.4 | -0.6 | -0.2 | -0.1 | -0.1 | -0.7 | -1.3 |
| 2007 | D | -2.8 | -2.4 | -1.2 | -0.7 | -0.7 | -0.6 | -0.3 | -0.1 | -0.7 | -0.4 | -0.5 | -0.2 | -0.9 |
| Average | | -1.1 | -3.1 | -3.9 | -1.3 | -0.6 | -0.6 | -0.3 | -0.5 | -0.5 | -0.6 | -0.5 | -0.4 | -1.1 |



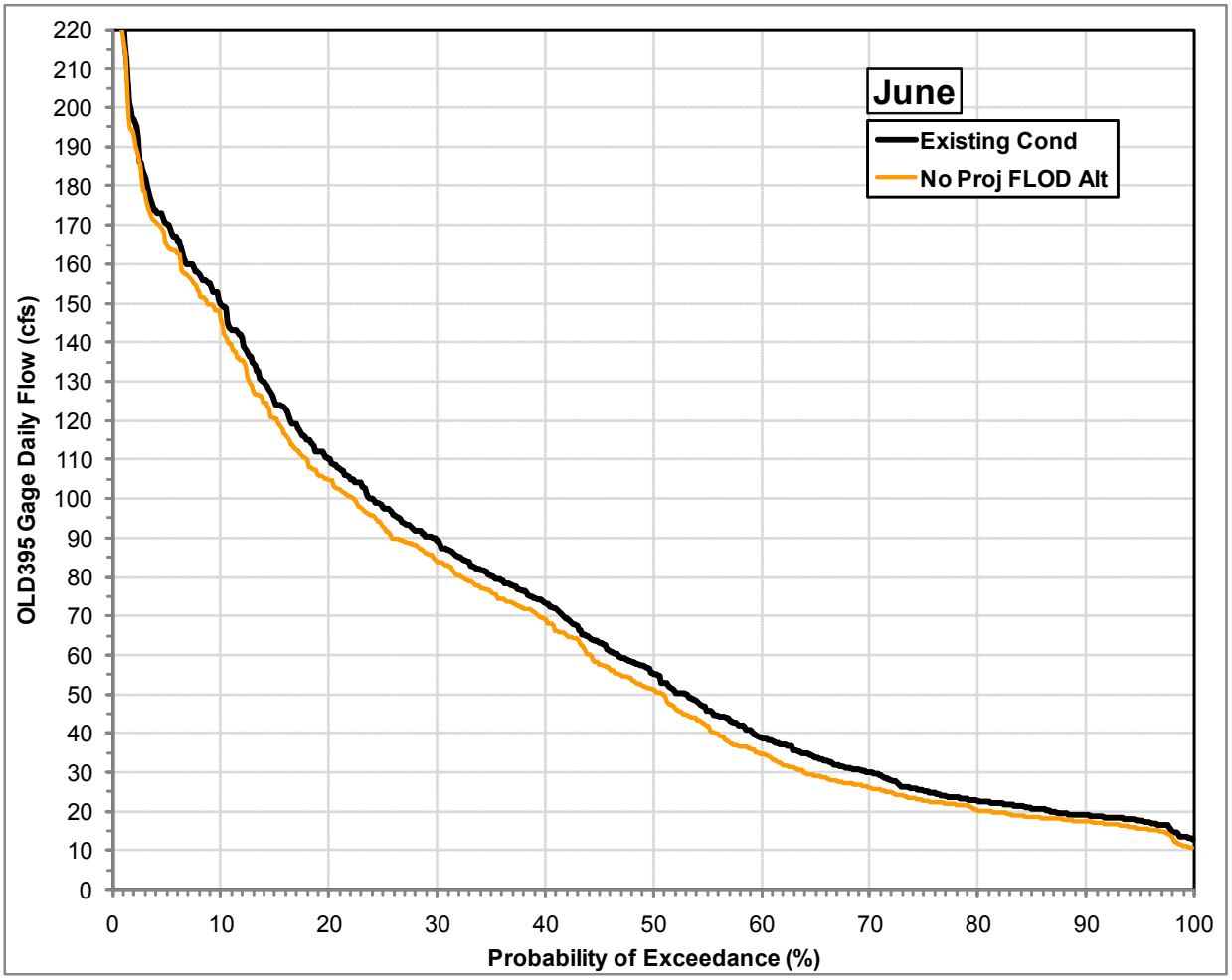

| Probability of Exceedance (%) | April OLD395 Gage Daily Flow (cfs) | |
|---|---|---|
| | No Proj FLOD Alt | Existing Cond |
| 5 | 24.4 | 23.8 |
| 10 | 18.6 | 18.9 |
| 20 | 14.2 | 15.8 |
| 25 | 12.8 | 15.0 |
| 50 | 9.4 | 11.2 |
| 75 | 8.1 | 8.6 |
| 80 | 7.8 | 8.2 |
| 90 | 7.0 | 7.1 |
| 95 | 6.3 | 6.5 |

**Cumulative Exceedance Probability Distribution of Daily Flows (cfs) at the OLD395 Gage under the No Project Alternative (Future Level of Demand) and the Existing Condition during April for the 20-Year Evaluation Period**



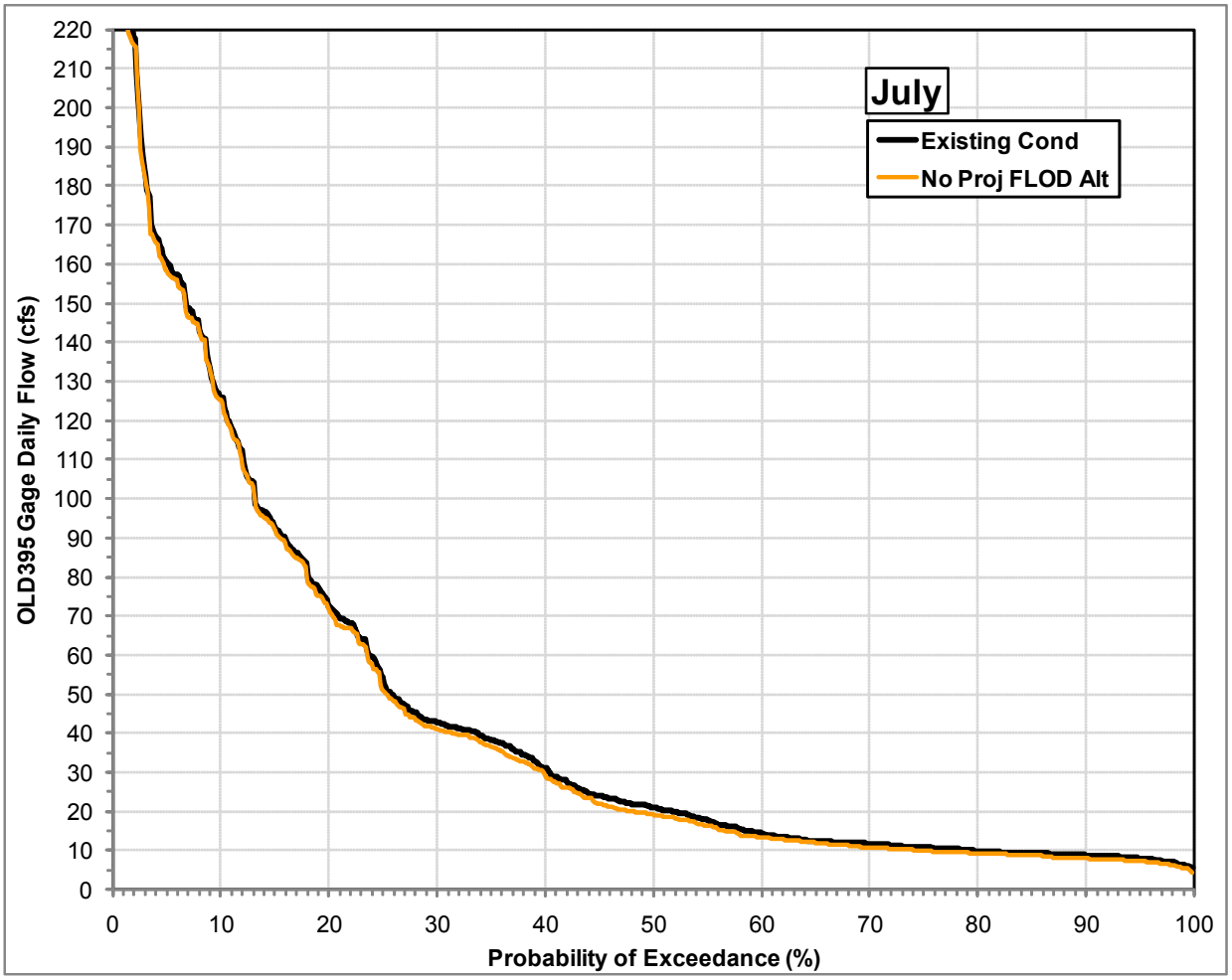

| Probability of Exceedance (%) | May OLD395 Gage Daily Flow (cfs) | |
|---|---|---|
| | No Proj FLOD Alt | Existing Cond |
| 5 | 114.6 | 118.0 |
| 10 | 92.4 | 96.2 |
| 20 | 68.7 | 71.8 |
| 25 | 55.8 | 60.4 |
| 50 | 26.1 | 30.3 |
| 75 | 18.2 | 19.2 |
| 80 | 17.1 | 17.7 |
| 90 | 13.9 | 15.3 |
| 95 | 10.1 | 12.4 |

**Cumulative Exceedance Probability Distribution of Daily Flows (cfs) at the OLD395 Gage under the No Project Alternative (Future Level of Demand) and the Existing Condition during May for the 20-Year Evaluation Period**



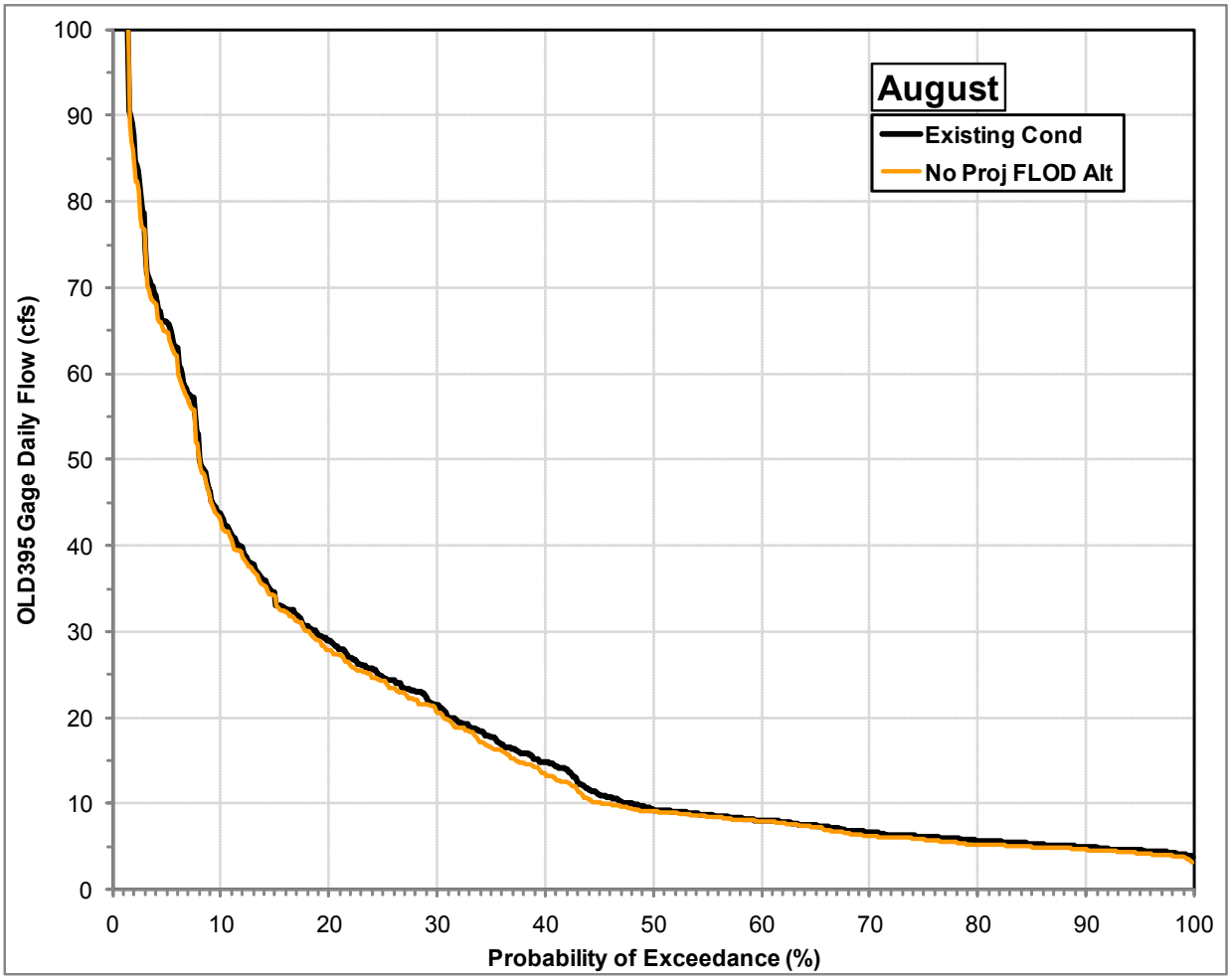

| Probability of Exceedance (%) | June OLD395 Gage Daily Flow (cfs) | |
|---|---|---|
| | No Proj FLOD Alt | Existing Cond |
| 5 | 165.1 | 170.0 |
| 10 | 145.3 | 149.0 |
| 20 | 104.9 | 110.0 |
| 25 | 93.0 | 97.5 |
| 50 | 51.2 | 55.2 |
| 75 | 22.8 | 25.1 |
| 80 | 20.2 | 22.7 |
| 90 | 17.4 | 19.0 |
| 95 | 15.7 | 17.7 |

**Cumulative Exceedance Probability Distribution of Daily Flows (cfs) at the OLD395 Gage under the No Project Alternative (Future Level of Demand) and the Existing Condition during June for the 20-Year Evaluation Period**



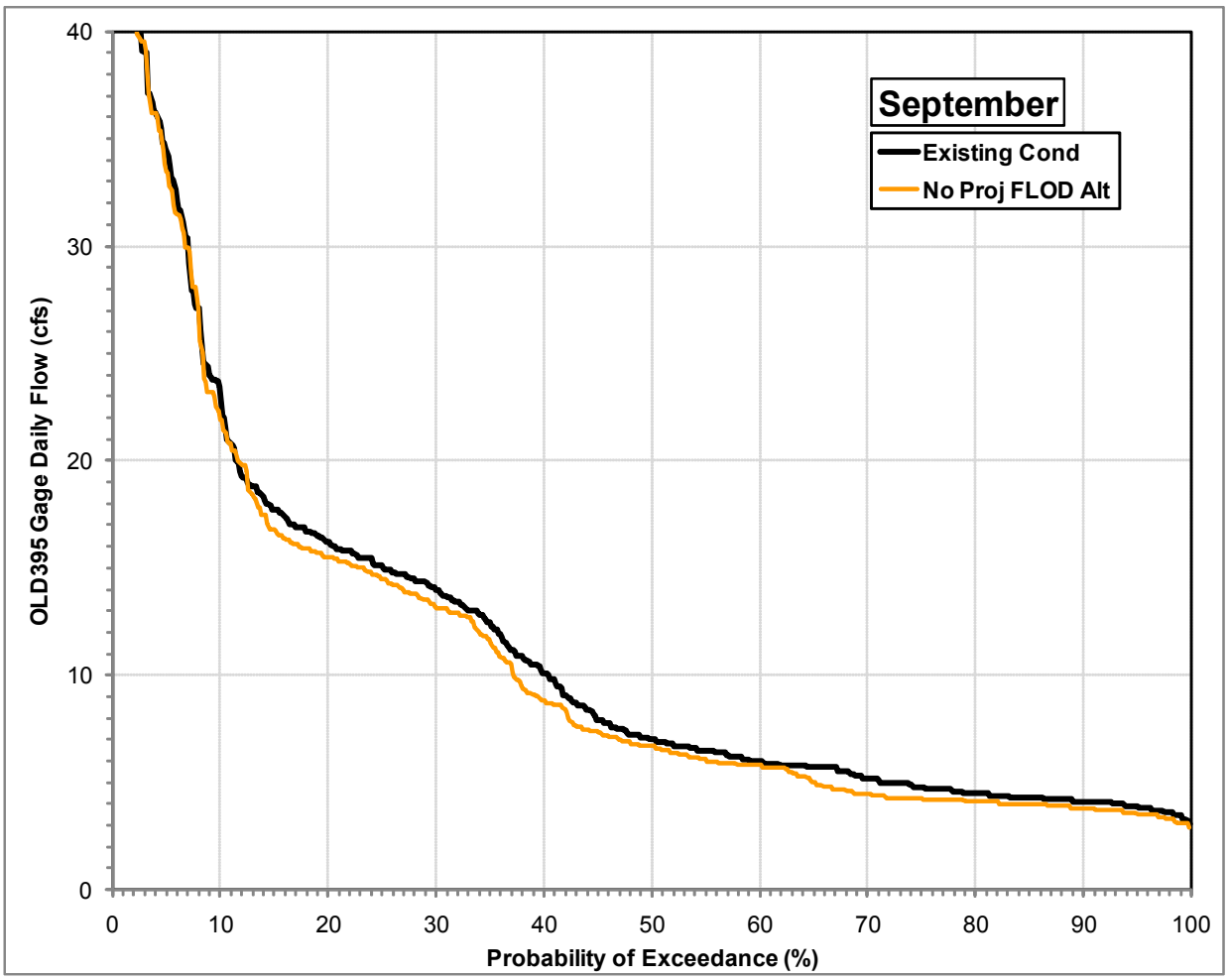

| Probability of Exceedance (%) | July OLD395 Gage Daily Flow (cfs) | |
|---|---|---|
| | No Proj FLOD Alt | Existing Cond |
| 5 | 158.3 | 160.0 |
| 10 | 125.3 | 125.9 |
| 20 | 71.2 | 72.3 |
| 25 | 50.9 | 52.6 |
| 50 | 19.2 | 21.0 |
| 75 | 10.0 | 10.9 |
| 80 | 9.3 | 9.9 |
| 90 | 8.0 | 8.8 |
| 95 | 7.3 | 8.1 |

**Cumulative Exceedance Probability Distribution of Daily Flows (cfs) at the OLD395 Gage under the No Project Alternative (Future Level of Demand) and the Existing Condition during July for the 20-Year Evaluation Period**



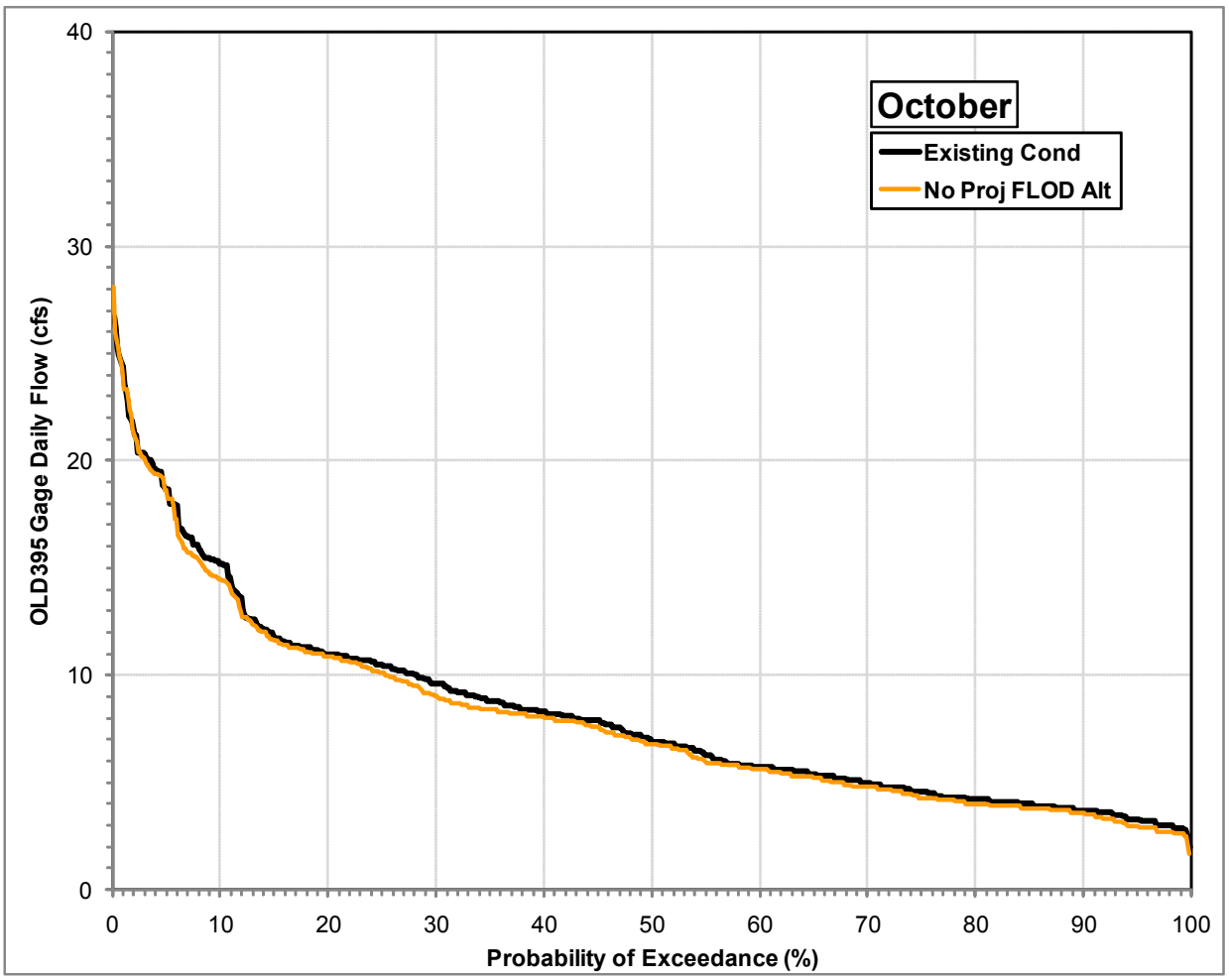

| Probability of Exceedance (%) | August OLD395 Gage Daily Flow (cfs) | |
|---|---|---|
| | No Proj FLOD Alt | Existing Cond |
| 5 | 64.8 | 65.7 |
| 10 | 42.8 | 43.1 |
| 20 | 27.9 | 28.9 |
| 25 | 24.3 | 24.6 |
| 50 | 9.1 | 9.3 |
| 75 | 5.9 | 6.1 |
| 80 | 5.3 | 5.7 |
| 90 | 4.7 | 5.0 |
| 95 | 4.2 | 4.6 |

**Cumulative Exceedance Probability Distribution of Daily Flows (cfs) at the OLD395 Gage under the No Project Alternative (Future Level of Demand) and the Existing Condition during August for the 20-Year Evaluation Period**



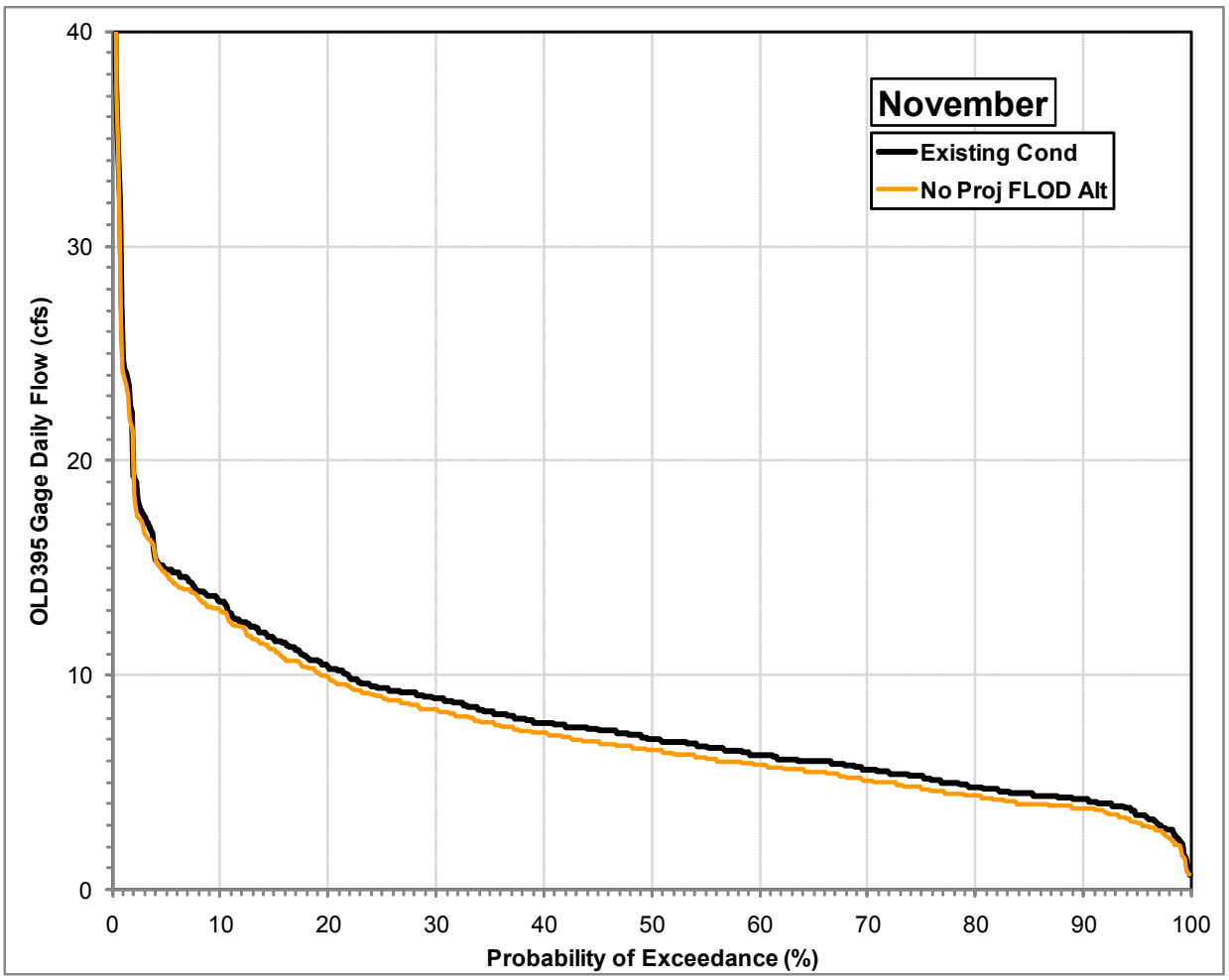

| Probability of Exceedance (%) | September OLD395 Gage Daily Flow (cfs) | |
|---|---|---|
| | No Proj FLOD Alt | Existing Cond |
| 5 | 33.5 | 34.2 |
| 10 | 21.9 | 22.1 |
| 20 | 15.5 | 16.2 |
| 25 | 14.5 | 15.0 |
| 50 | 6.7 | 7.0 |
| 75 | 4.3 | 4.8 |
| 80 | 4.1 | 4.5 |
| 90 | 3.8 | 4.1 |
| 95 | 3.5 | 3.9 |

**Cumulative Exceedance Probability Distribution of Daily Flows (cfs) at the OLD395 Gage under the No Project Alternative (Future Level of Demand) and the Existing Condition during September for the 20-Year Evaluation Period**



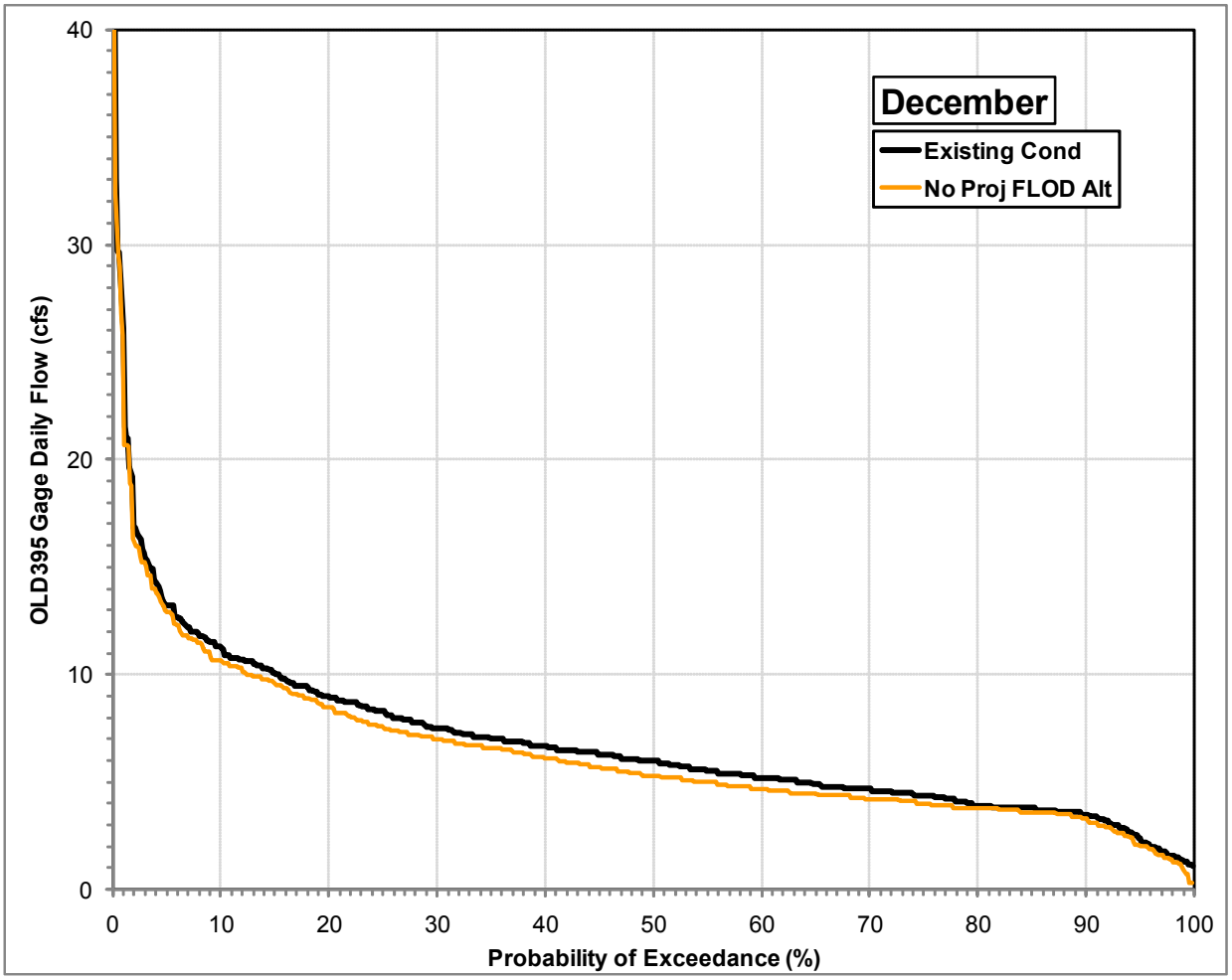

| Probability of Exceedance (%) | October OLD395 Gage Daily Flow (cfs) | |
|---|---|---|
| | No Proj FLOD Alt | Existing Cond |
| 5 | 18.6 | 18.7 |
| 10 | 14.5 | 15.2 |
| 20 | 10.9 | 11.0 |
| 25 | 10.1 | 10.4 |
| 50 | 6.8 | 6.9 |
| 75 | 4.3 | 4.6 |
| 80 | 4.0 | 4.2 |
| 90 | 3.6 | 3.7 |
| 95 | 3.0 | 3.3 |

**Cumulative Exceedance Probability Distribution of Daily Flows (cfs) at the OLD395 Gage under the No Project Alternative (Future Level of Demand) and the Existing Condition during October for the 20-Year Evaluation Period**



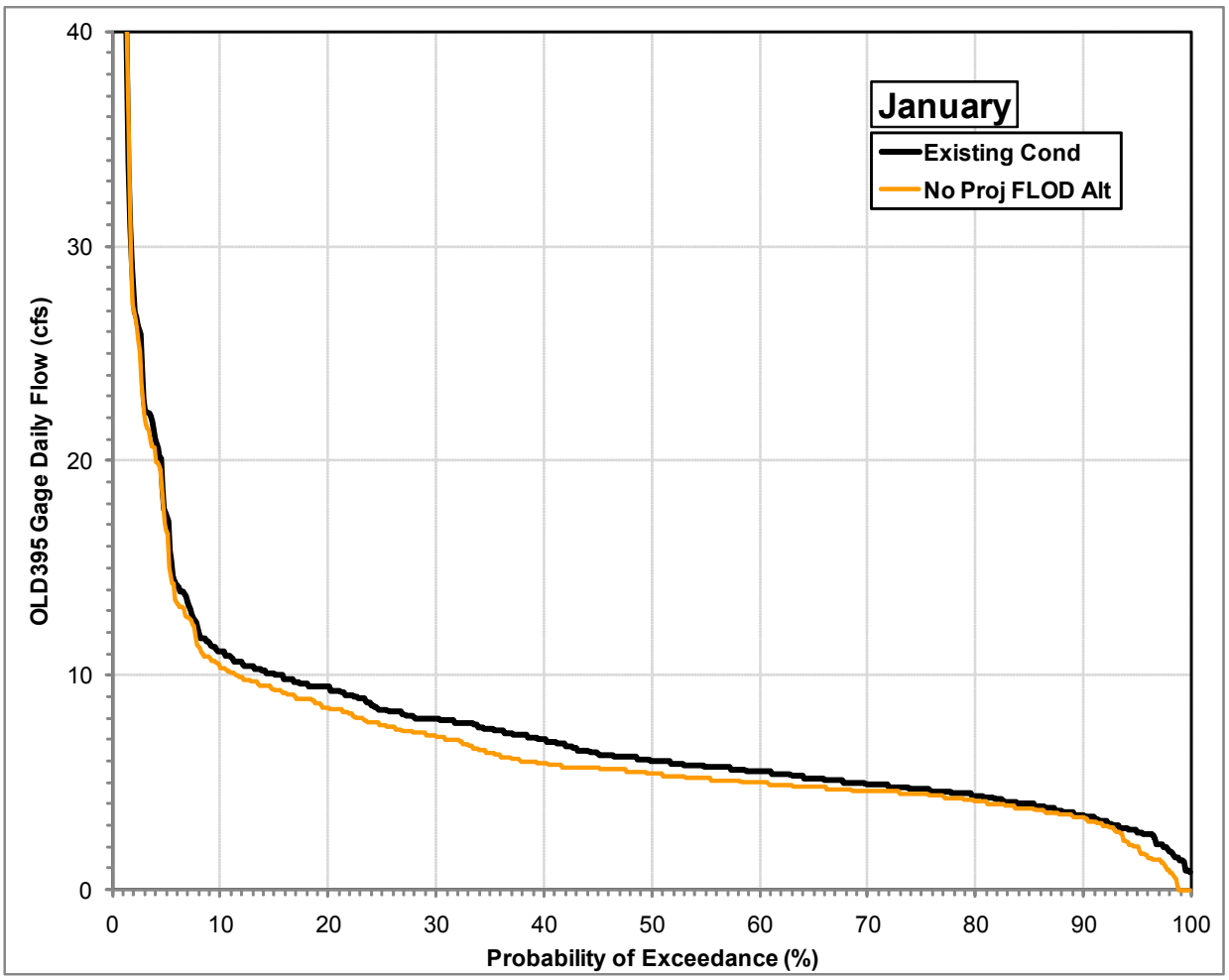

| Probability of Exceedance (%) | November OLD395 Gage Daily Flow (cfs) | |
|---|---|---|
| | No Proj FLOD Alt | Existing Cond |
| 5 | 14.7 | 14.9 |
| 10 | 13.0 | 13.4 |
| 20 | 9.9 | 10.3 |
| 25 | 9.0 | 9.4 |
| 50 | 6.5 | 7.0 |
| 75 | 4.7 | 5.3 |
| 80 | 4.4 | 4.8 |
| 90 | 3.8 | 4.2 |
| 95 | 3.1 | 3.5 |

**Cumulative Exceedance Probability Distribution of Daily Flows (cfs) at the OLD395 Gage under the No Project Alternative (Future Level of Demand) and the Existing Condition during November for the 20-Year Evaluation Period**



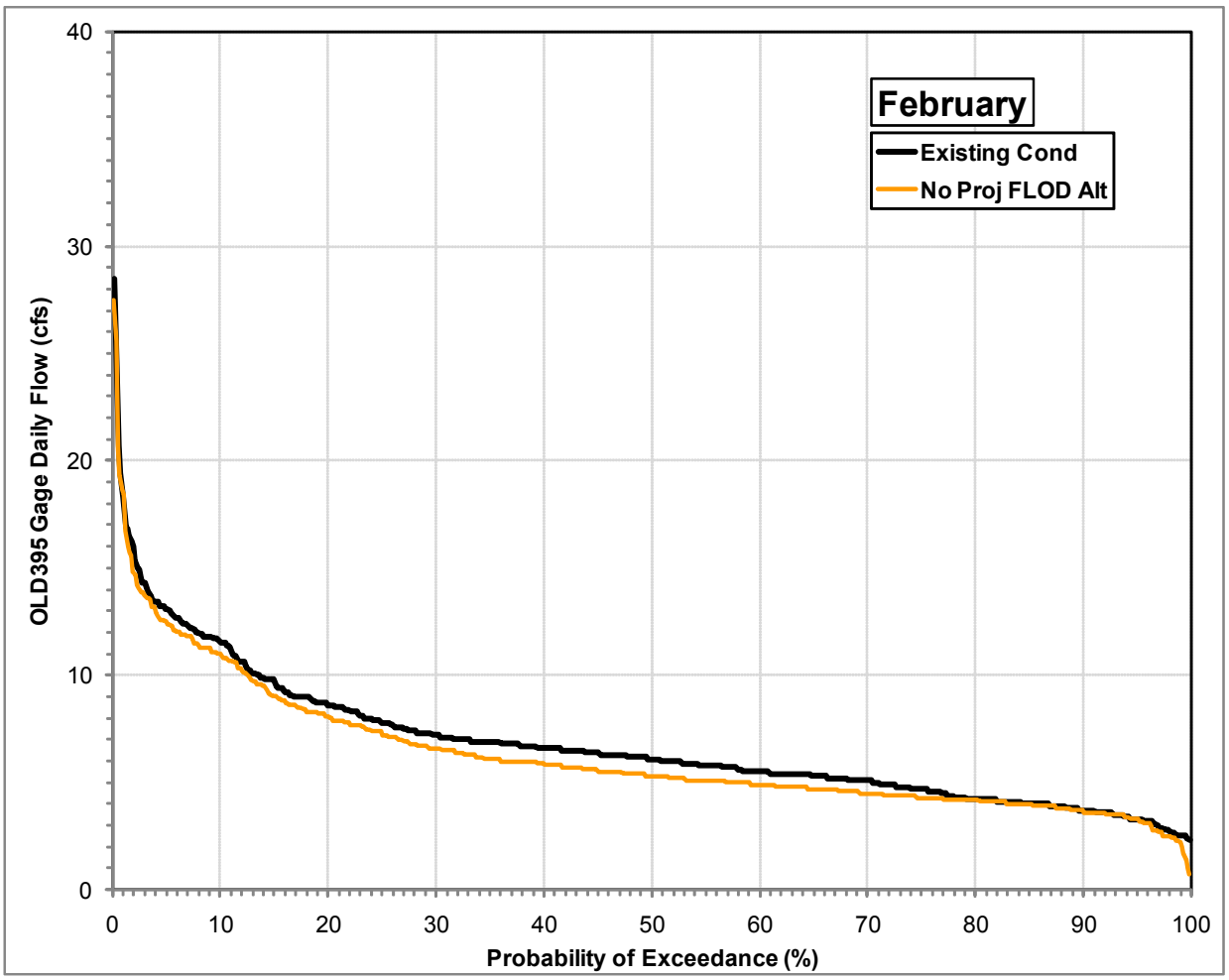

| Probability of Exceedance (%) | December OLD395 Gage Daily Flow (cfs) | |
|---|---|---|
| | No Proj FLOD Alt | Existing Cond |
| 5 | 12.9 | 13.2 |
| 10 | 10.7 | 11.2 |
| 20 | 8.5 | 8.9 |
| 25 | 7.6 | 8.3 |
| 50 | 5.3 | 6.0 |
| 75 | 4.0 | 4.4 |
| 80 | 3.8 | 3.9 |
| 90 | 3.3 | 3.5 |
| 95 | 2.0 | 2.4 |

**Cumulative Exceedance Probability Distribution of Daily Flows (cfs) at the OLD395 Gage under the No Project Alternative (Future Level of Demand) and the Existing Condition during December for the 20-Year Evaluation Period**



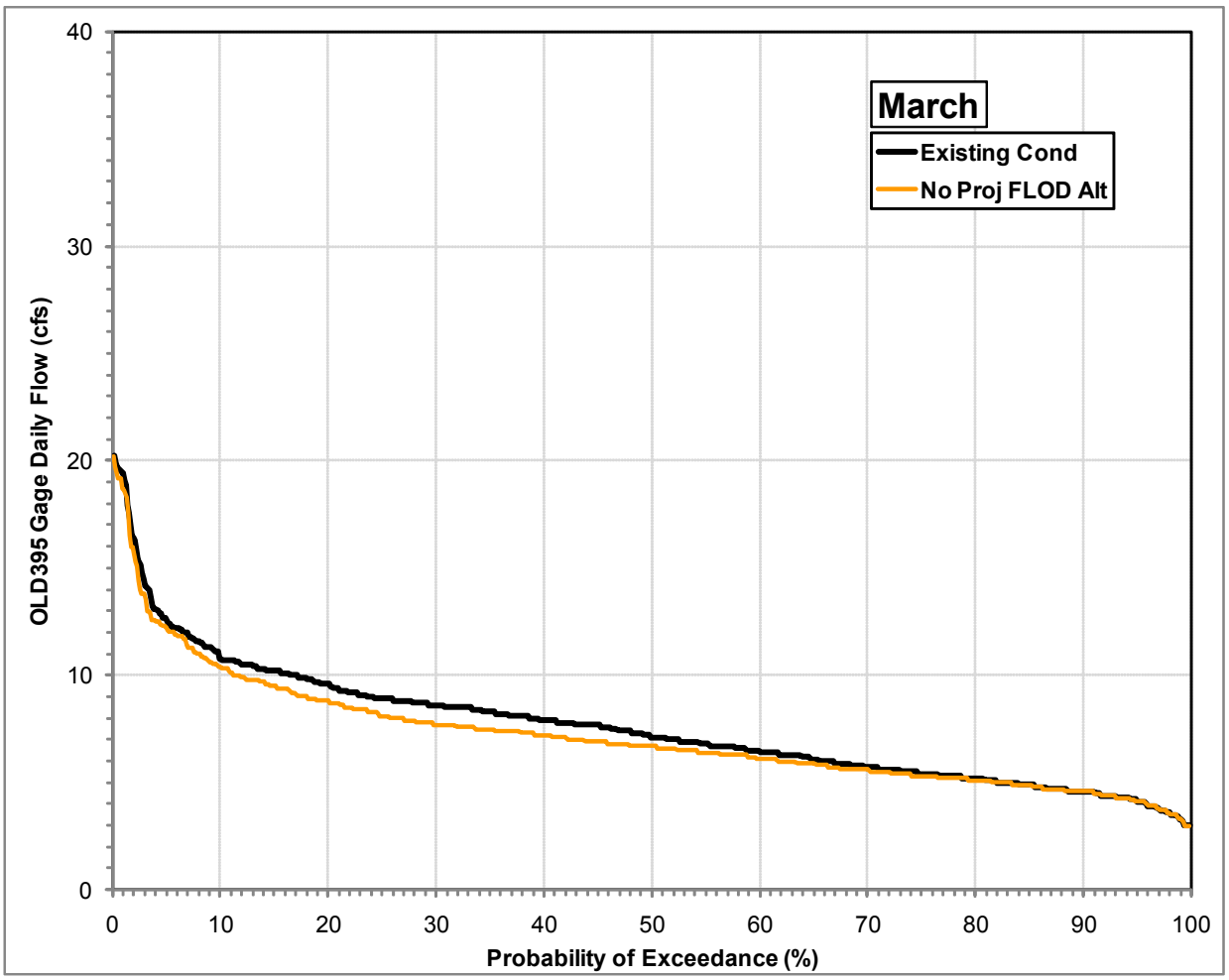

| Probability of Exceedance (%) | January OLD395 Gage Daily Flow (cfs) | |
|---|---|---|
| | No Proj FLOD Alt | Existing Cond |
| 5 | 16.7 | 17.2 |
| 10 | 10.3 | 11.1 |
| 20 | 8.5 | 9.5 |
| 25 | 7.7 | 8.4 |
| 50 | 5.4 | 6.0 |
| 75 | 4.5 | 4.7 |
| 80 | 4.1 | 4.4 |
| 90 | 3.4 | 3.5 |
| 95 | 2.0 | 2.7 |

**Cumulative Exceedance Probability Distribution of Daily Flows (cfs) at the OLD395 Gage under the No Project Alternative (Future Level of Demand) and the Existing Condition during January for the 20-Year Evaluation Period**



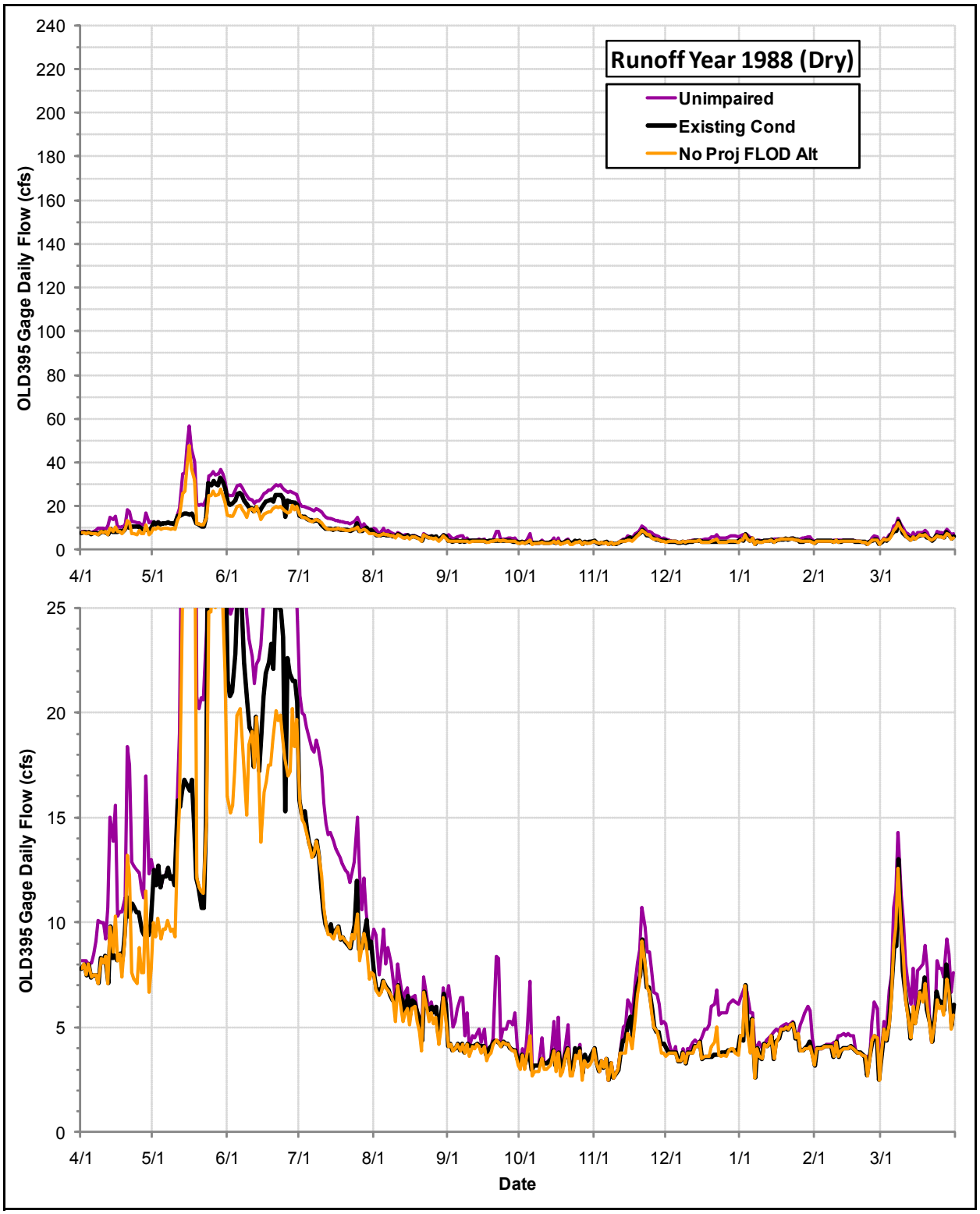

| Probability of Exceedance (%) | February OLD395 Gage Daily Flow (cfs) | |
|---|---|---|
| | No Proj FLOD Alt | Existing Cond |
| 5 | 12.5 | 13.1 |
| 10 | 11.0 | 11.5 |
| 20 | 8.1 | 8.6 |
| 25 | 7.3 | 7.8 |
| 50 | 5.3 | 6.1 |
| 75 | 4.3 | 4.7 |
| 80 | 4.2 | 4.2 |
| 90 | 3.7 | 3.7 |
| 95 | 3.3 | 3.3 |

**Cumulative Exceedance Probability Distribution of Daily Flows (cfs) at the OLD395 Gage under the No Project Alternative (Future Level of Demand) and the Existing Condition during February for the 20-Year Evaluation Period**

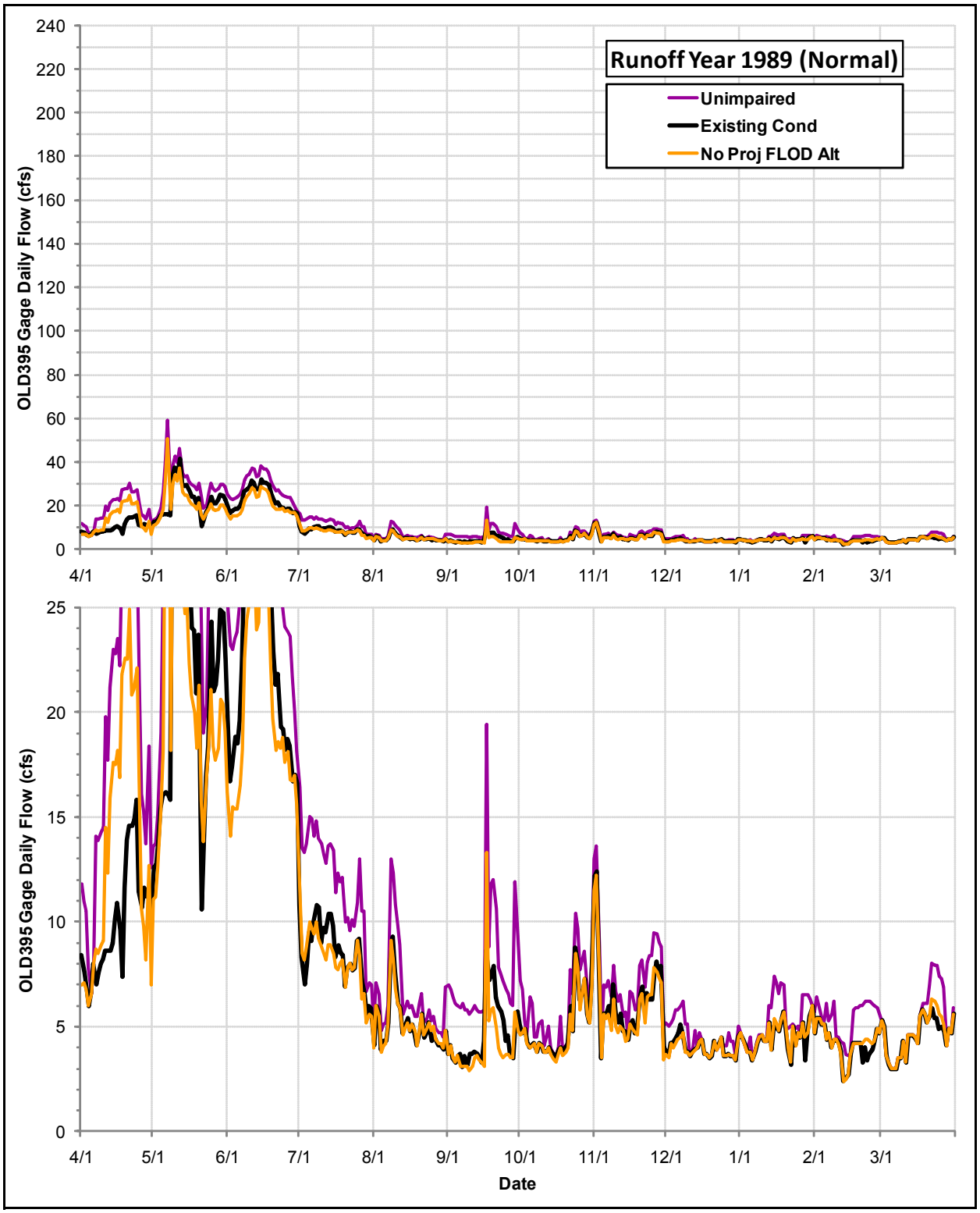



| Probability of Exceedance (%) | March OLD395 Gage Daily Flow (cfs) | |
|---|---|---|
| | No Proj FLOD Alt | Existing Cond |
| 5 | 12.2 | 12.4 |
| 10 | 10.4 | 10.7 |
| 20 | 8.8 | 9.6 |
| 25 | 8.1 | 8.9 |
| 50 | 6.7 | 7.1 |
| 75 | 5.3 | 5.4 |
| 80 | 5.1 | 5.2 |
| 90 | 4.6 | 4.6 |
| 95 | 4.1 | 4.1 |

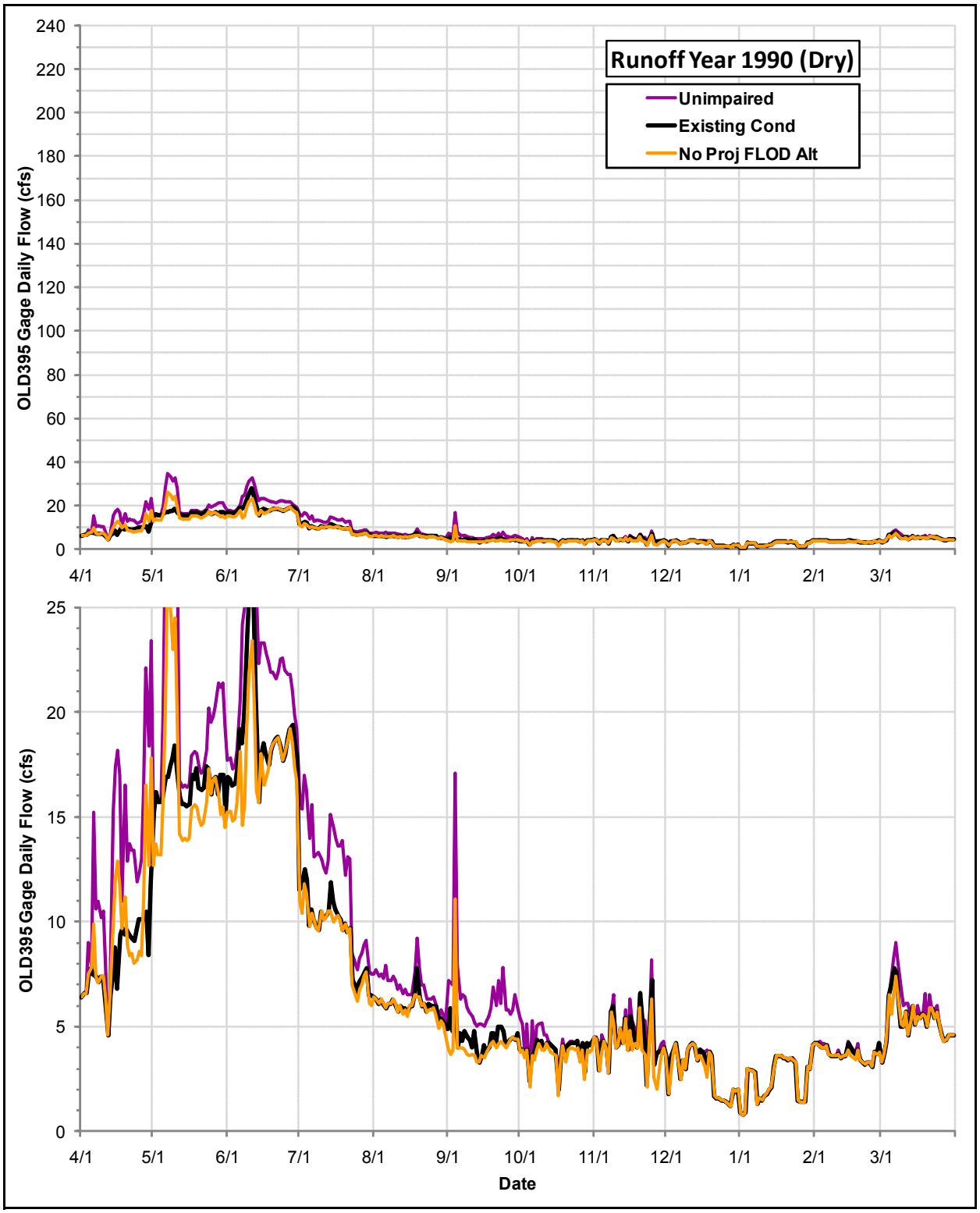
**Cumulative Exceedance Probability Distribution of Daily Flows (cfs) at the OLD395 Gage under the No Project Alternative (Future Level of Demand) and the Existing Condition during March for the 20-Year Evaluation Period**



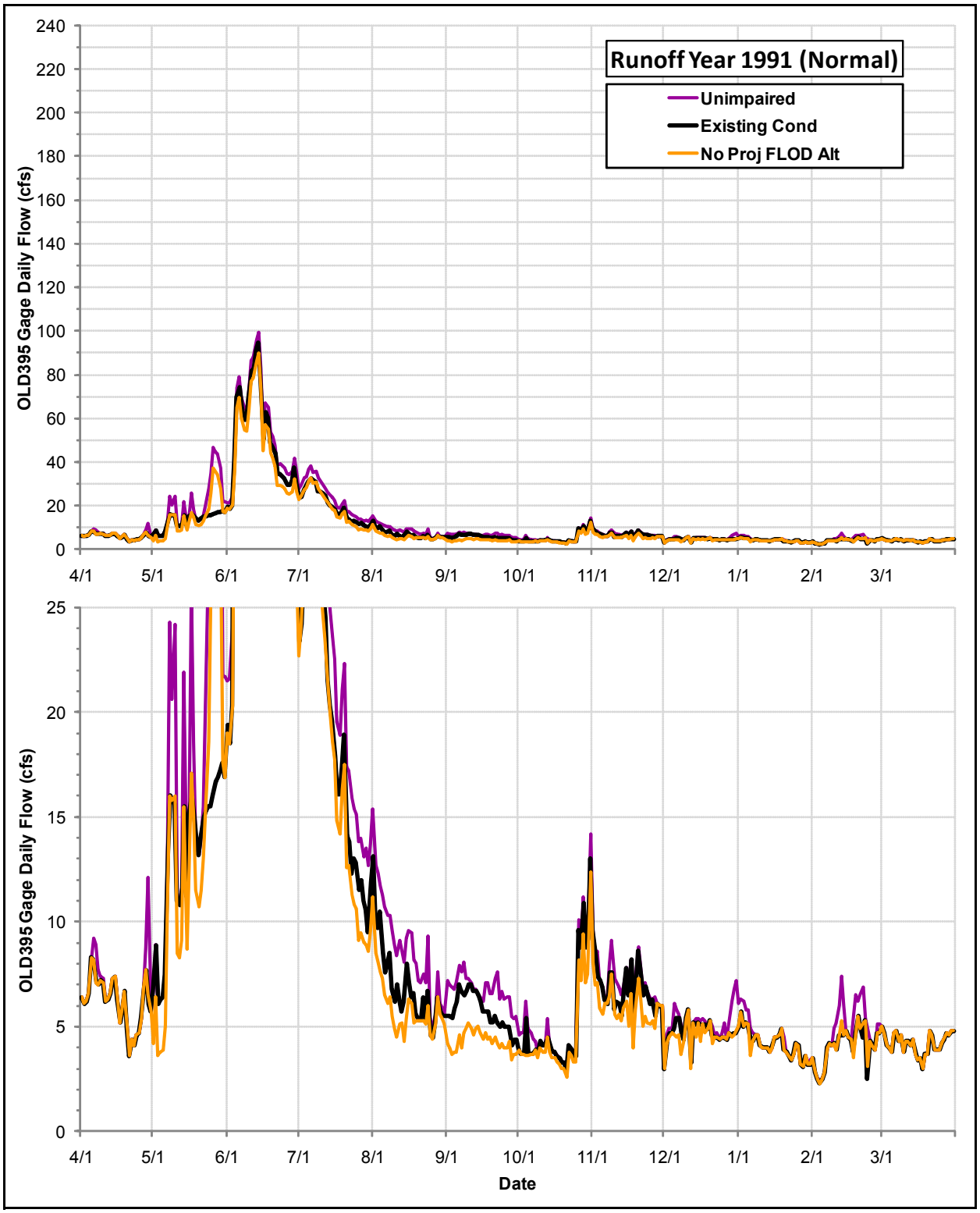

**Daily Flows (cfs) at the OLD395 Gage under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 1988**



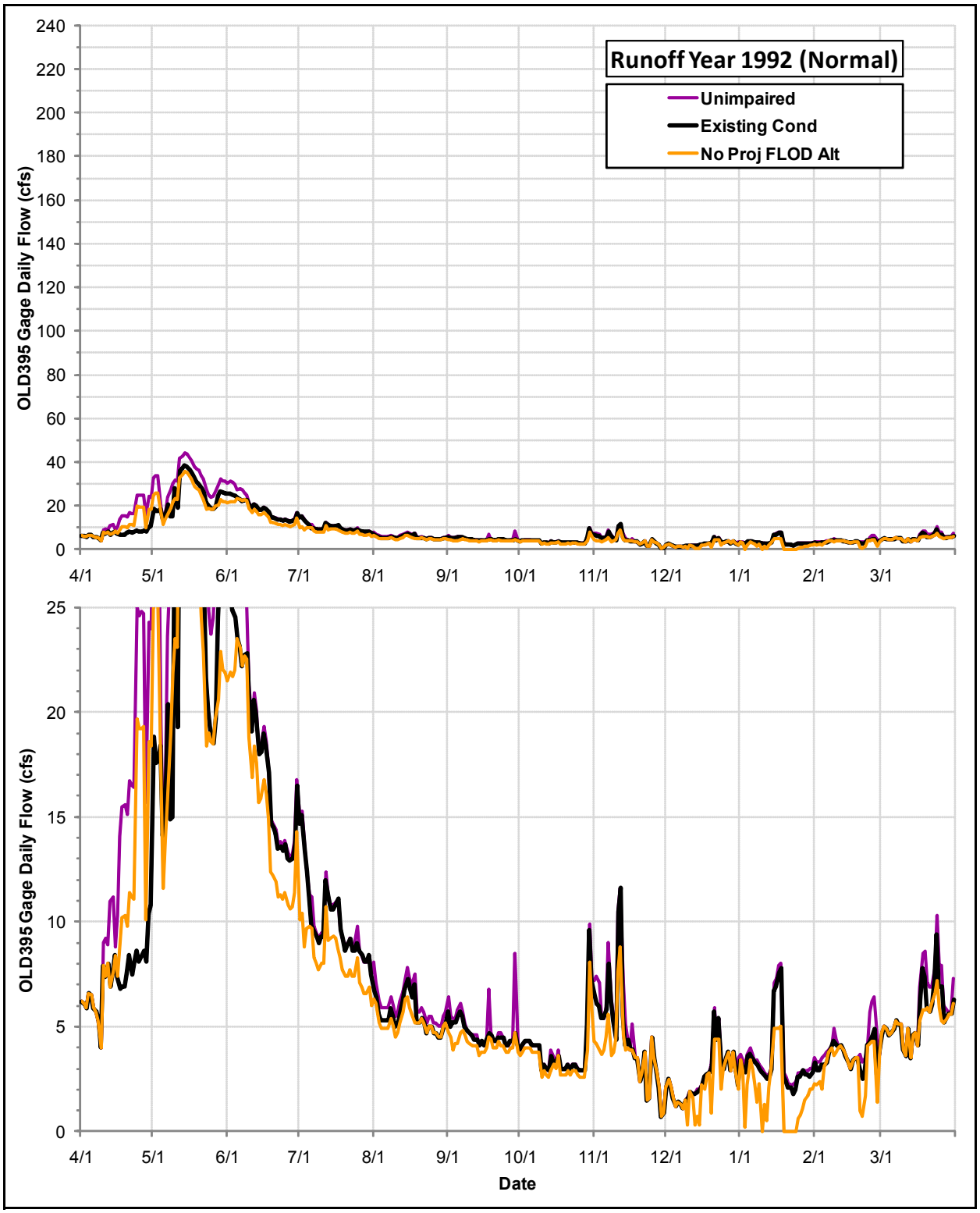

**Daily Flows (cfs) at the OLD395 Gage under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 1989**



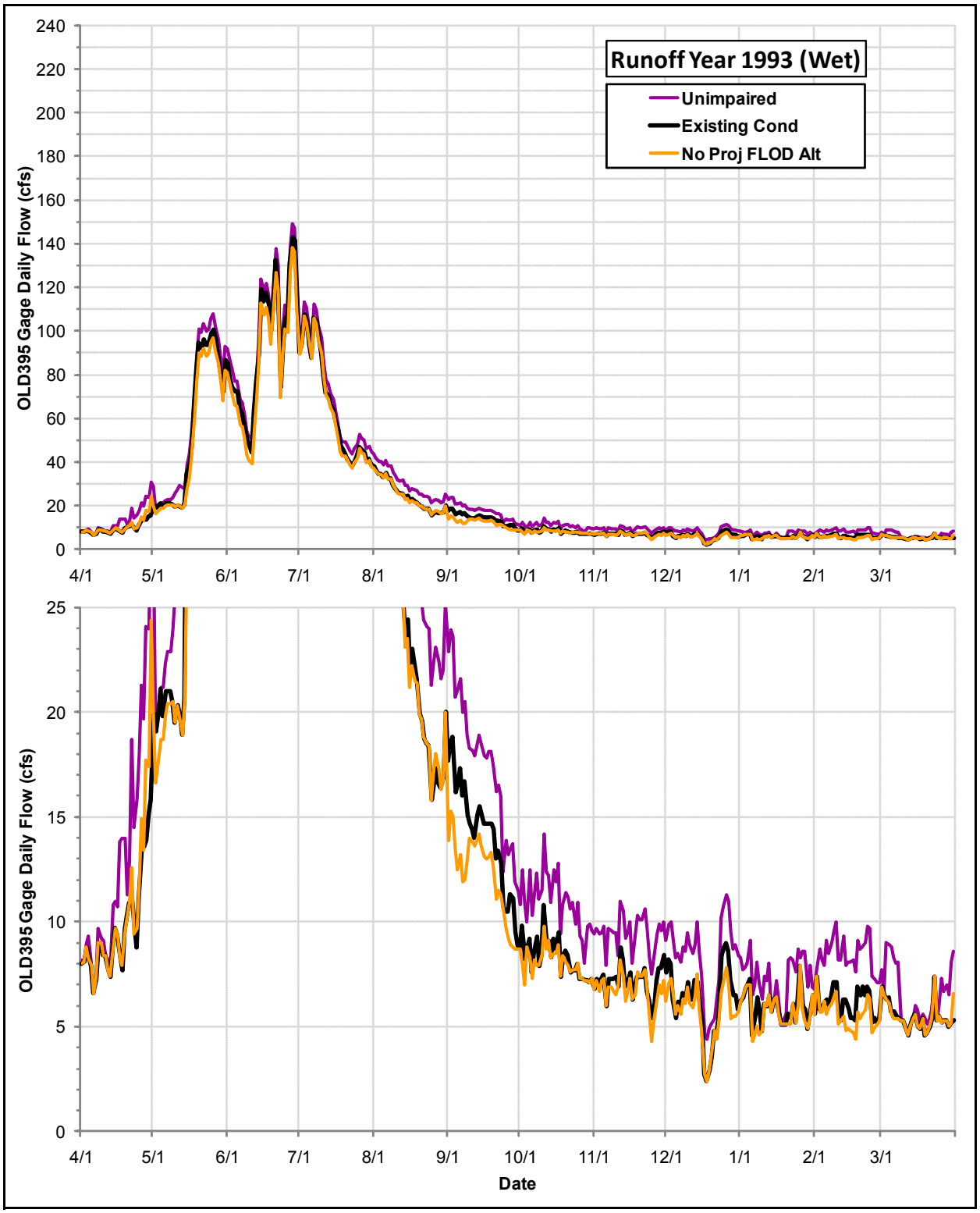

**Daily Flows (cfs) at the OLD395 Gage under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 1990**



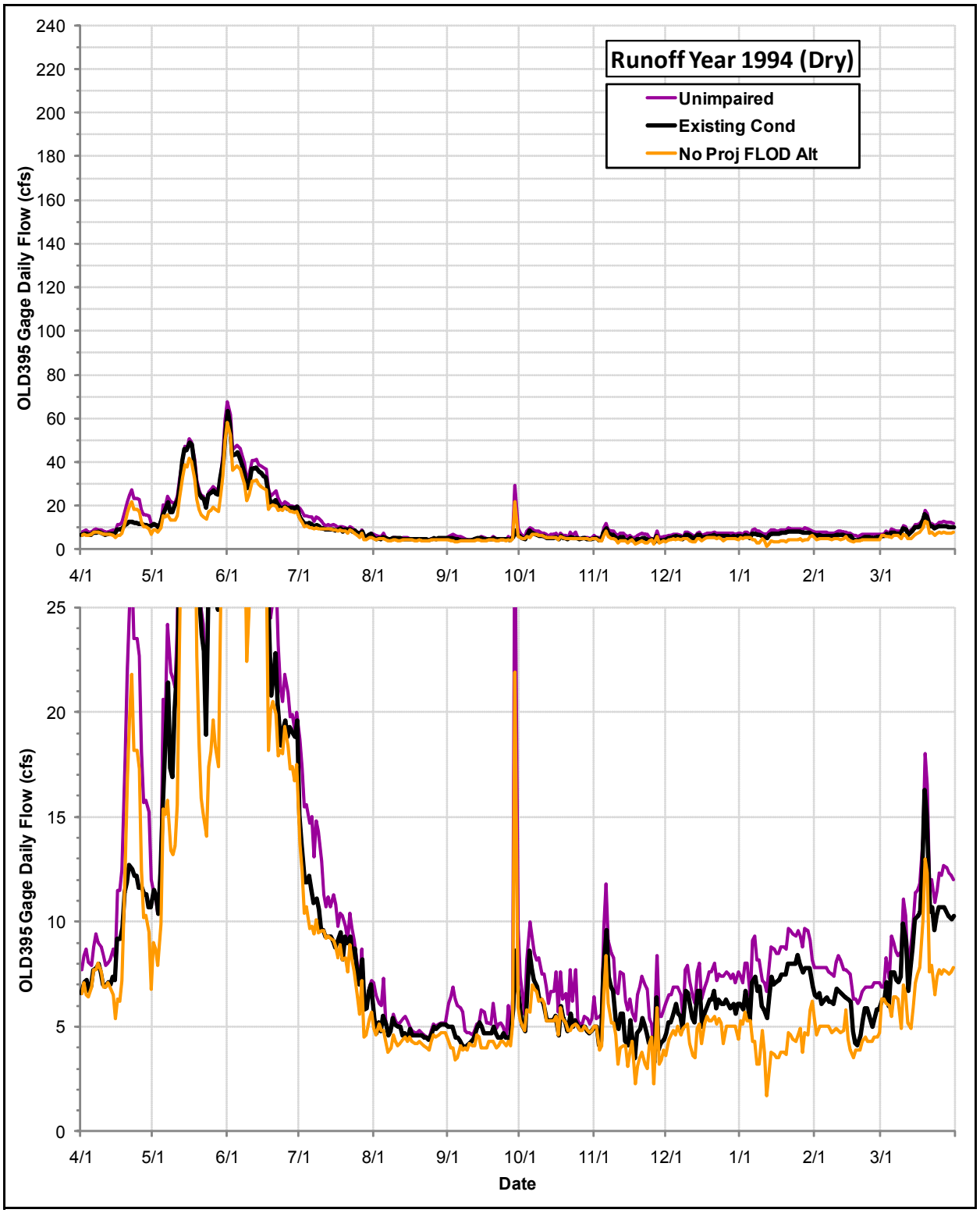

**Daily Flows (cfs) at the OLD395 Gage under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 1991**



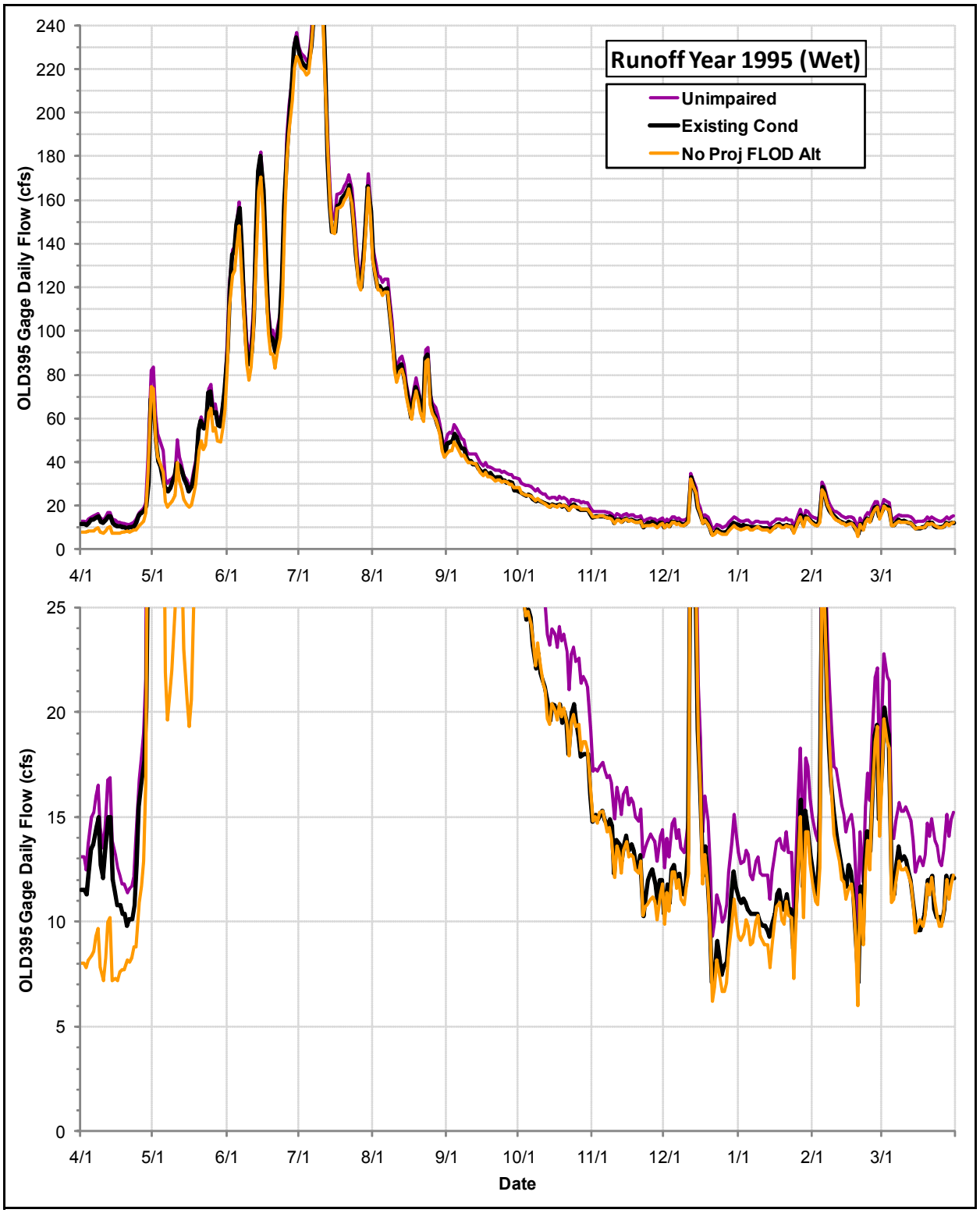

**Daily Flows (cfs) at the OLD395 Gage under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index Unimpaired Conditions during Runoff Year 1992**



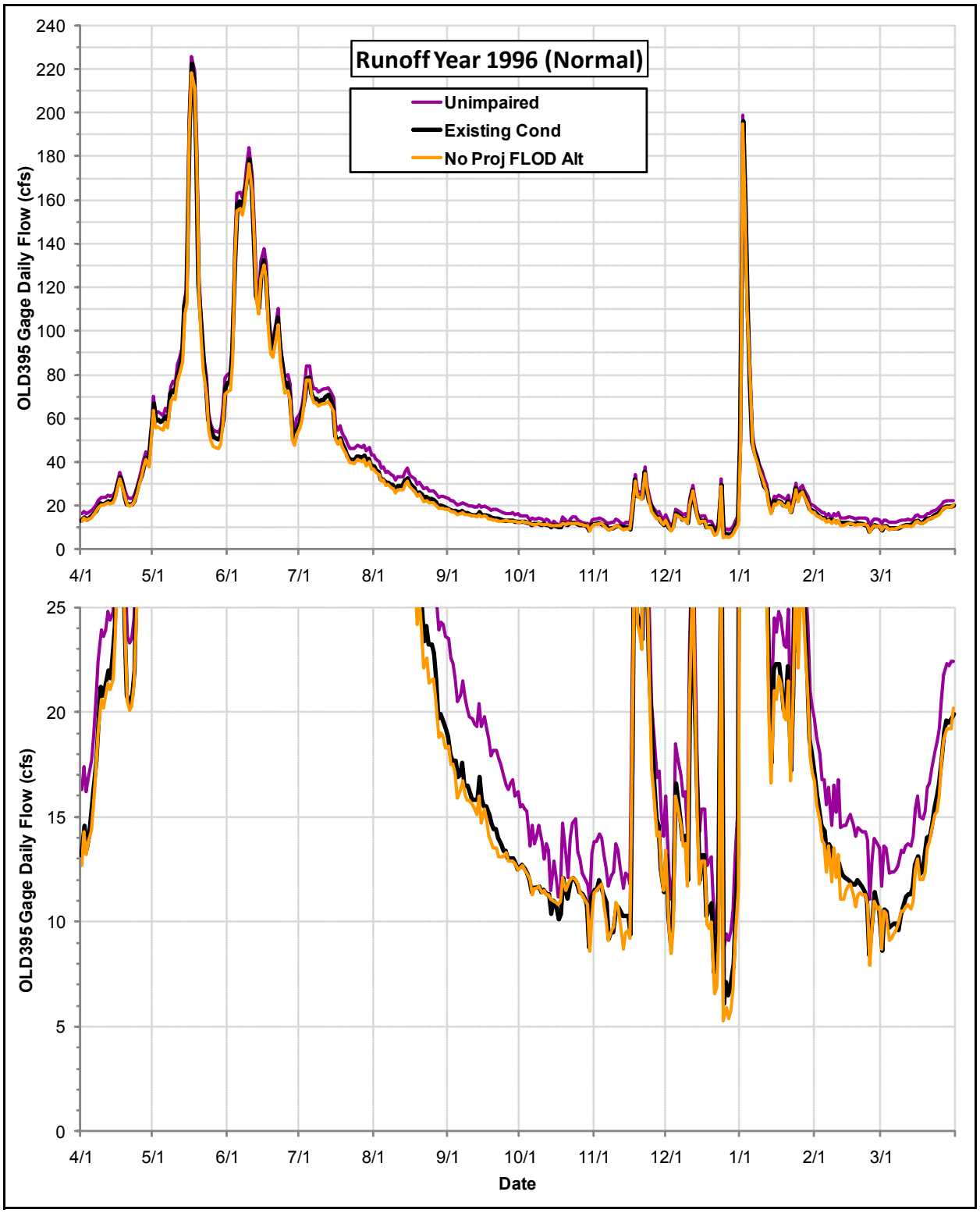

**Daily Flows (cfs) at the OLD395 Gage under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 1993**



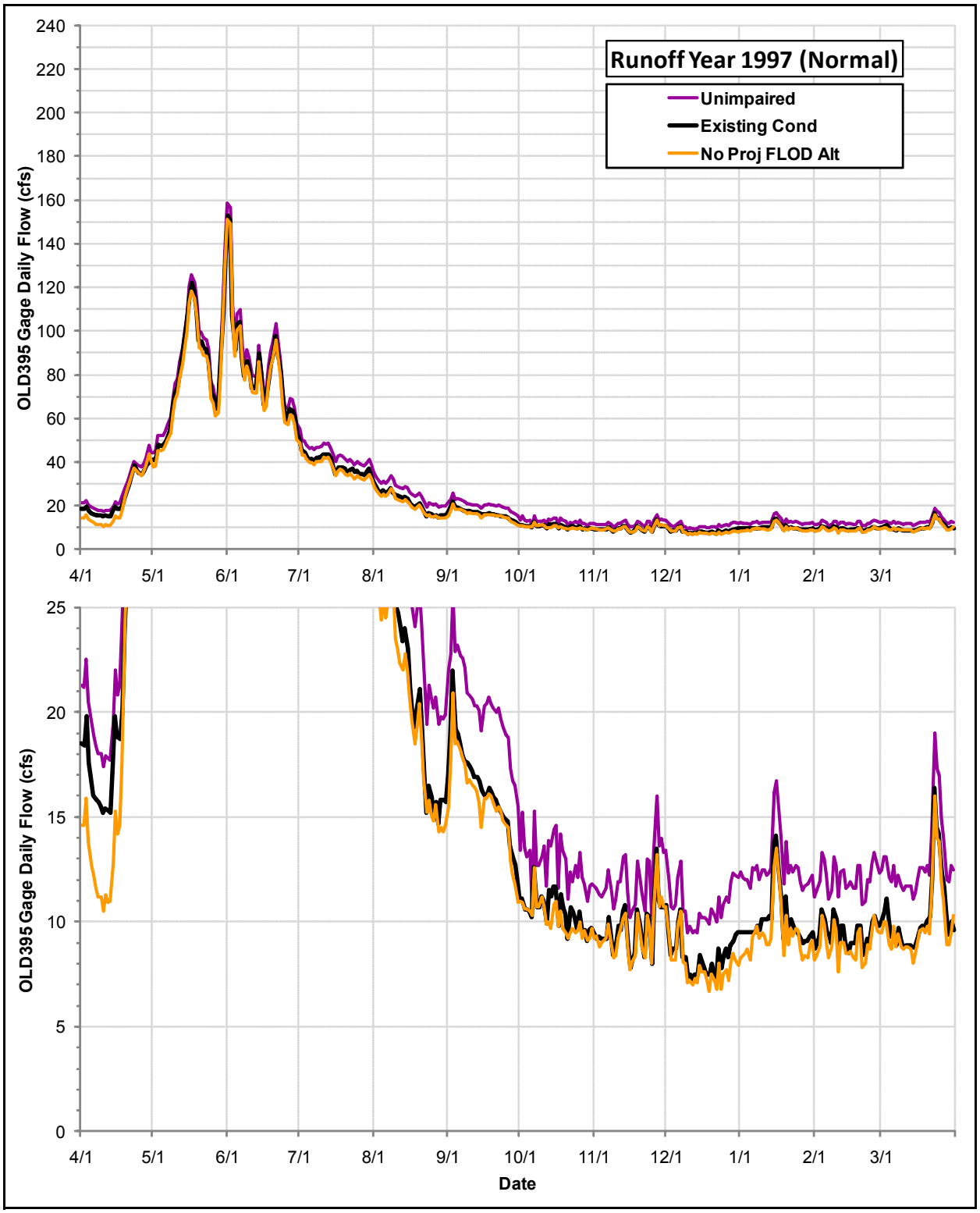

**Daily Flows (cfs) at the OLD395 Gage under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 1994**



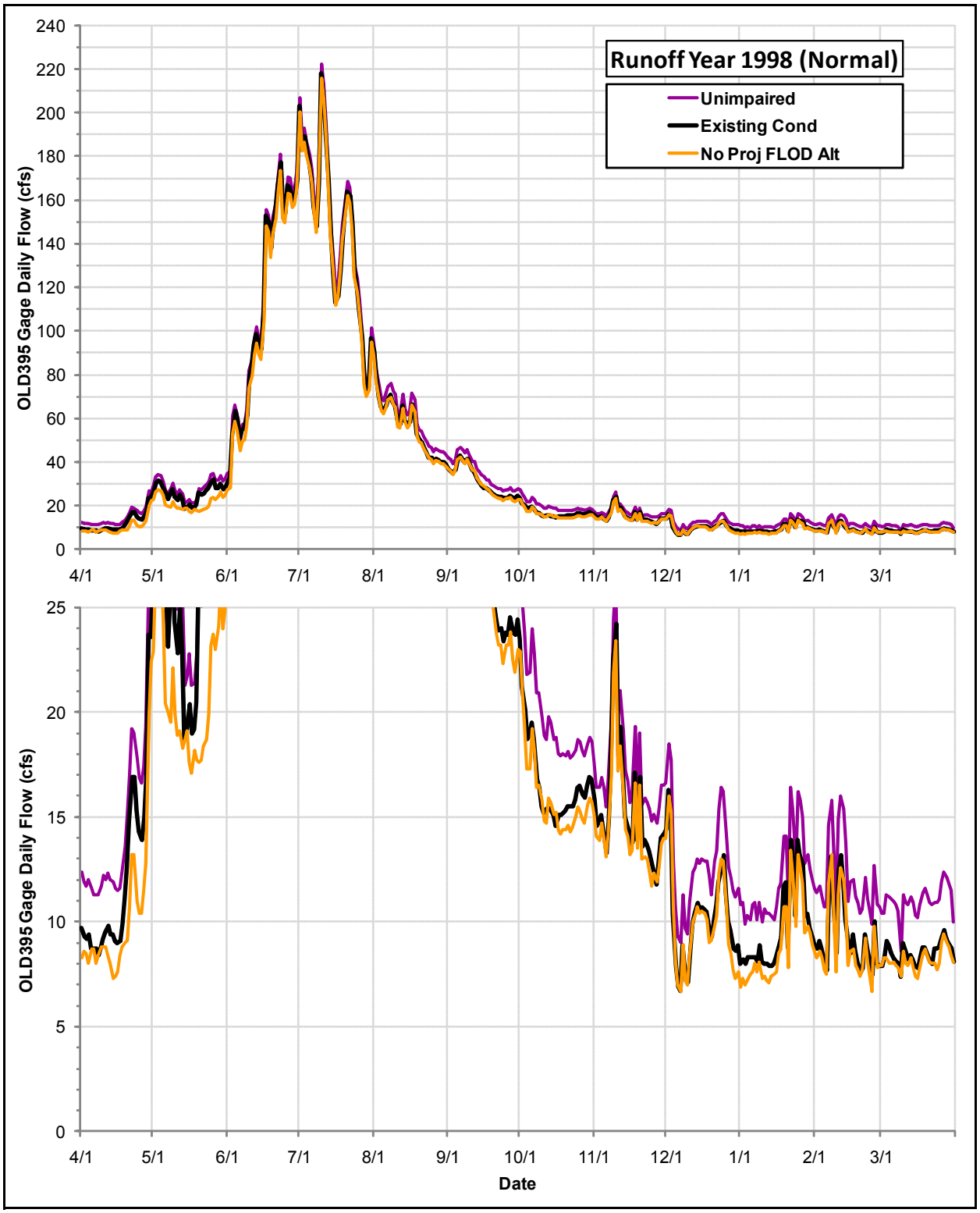

**Daily Flows (cfs) at the OLD395 Gage under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 1995**



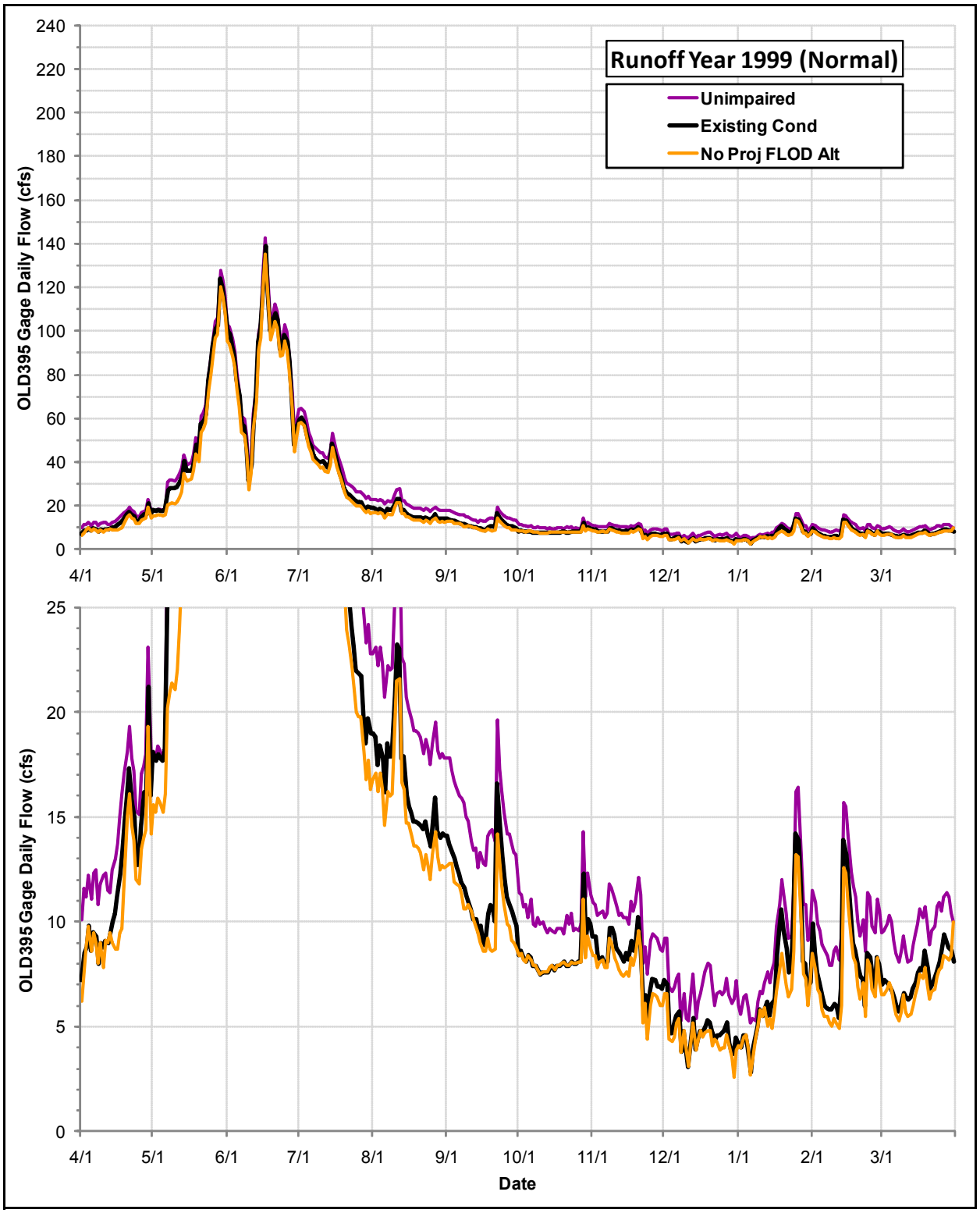

**Daily Flows (cfs) at the OLD395 Gage under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 1996**



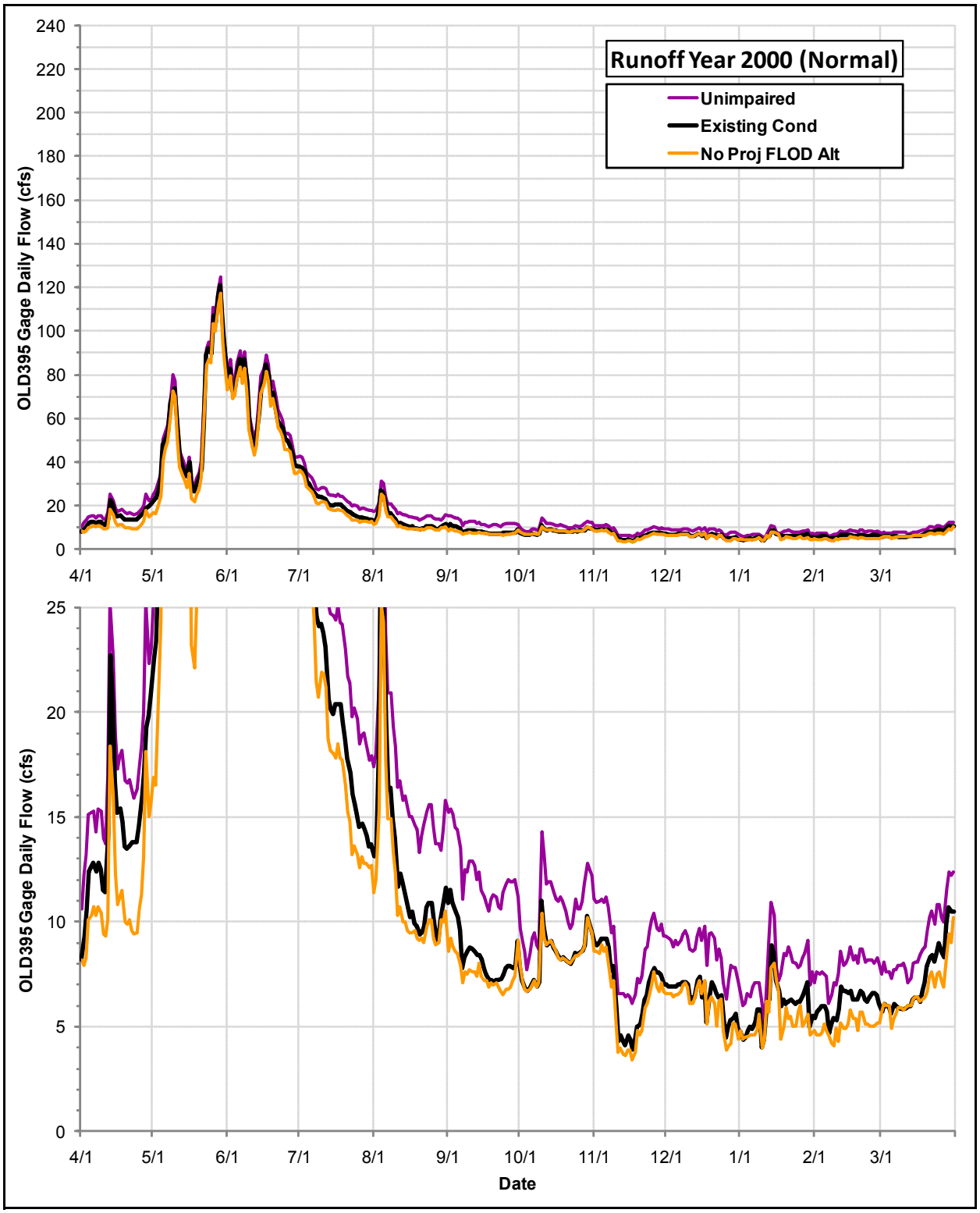

**Daily Flows (cfs) at the OLD395 Gage under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 1997**



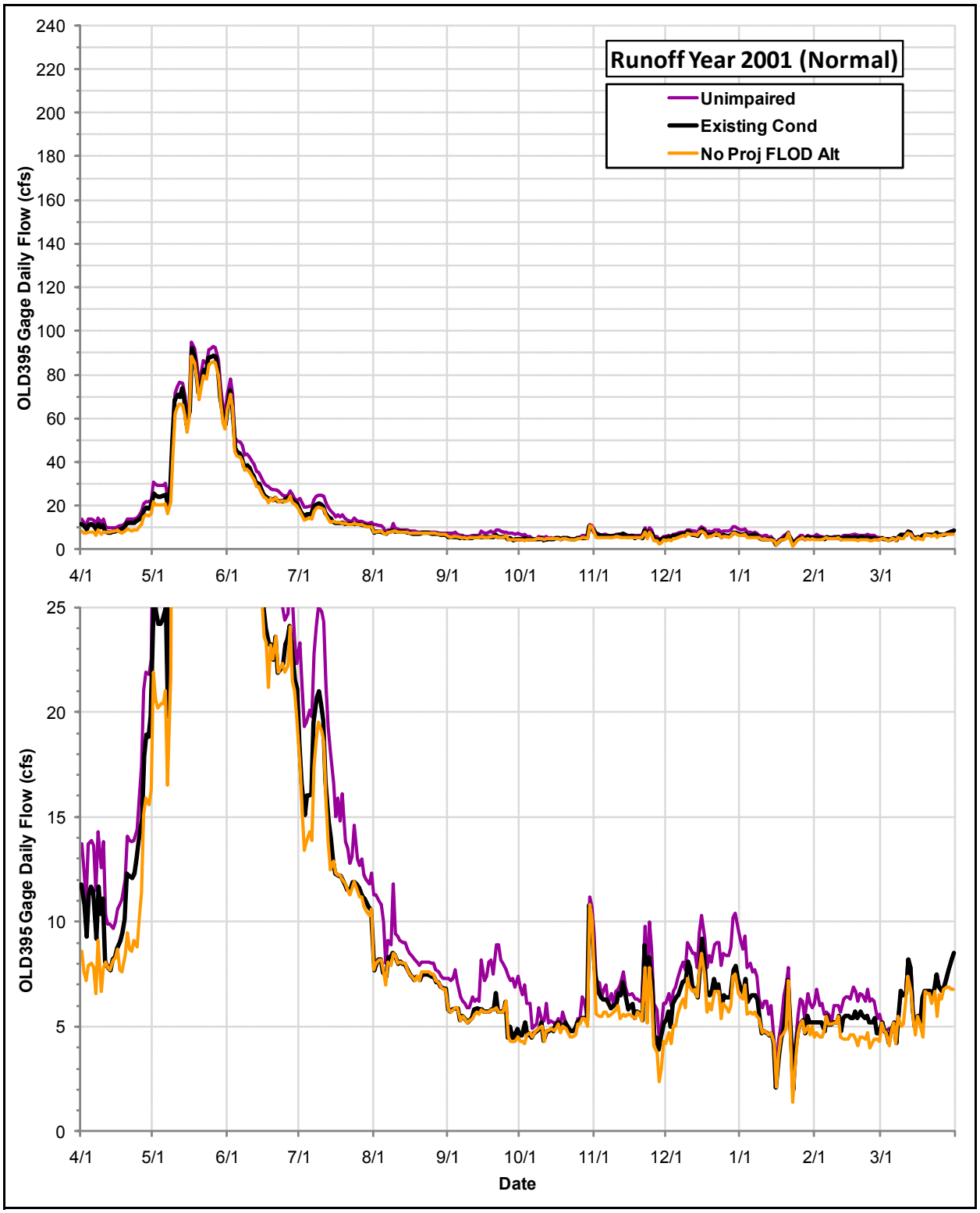

**Daily Flows (cfs) at the OLD395 Gage under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 1998**



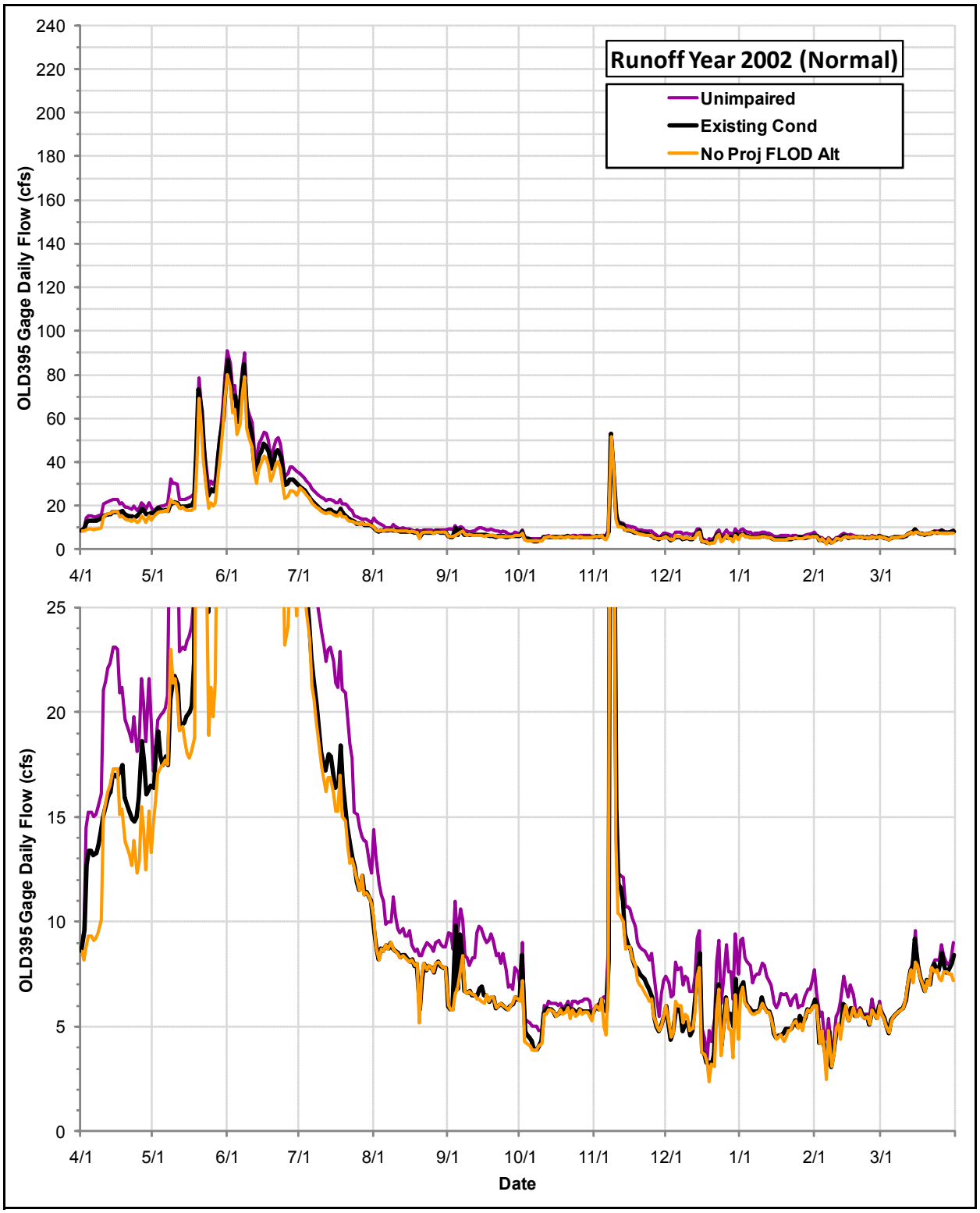

**Daily Flows (cfs) at the OLD395 Gage under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 1999**



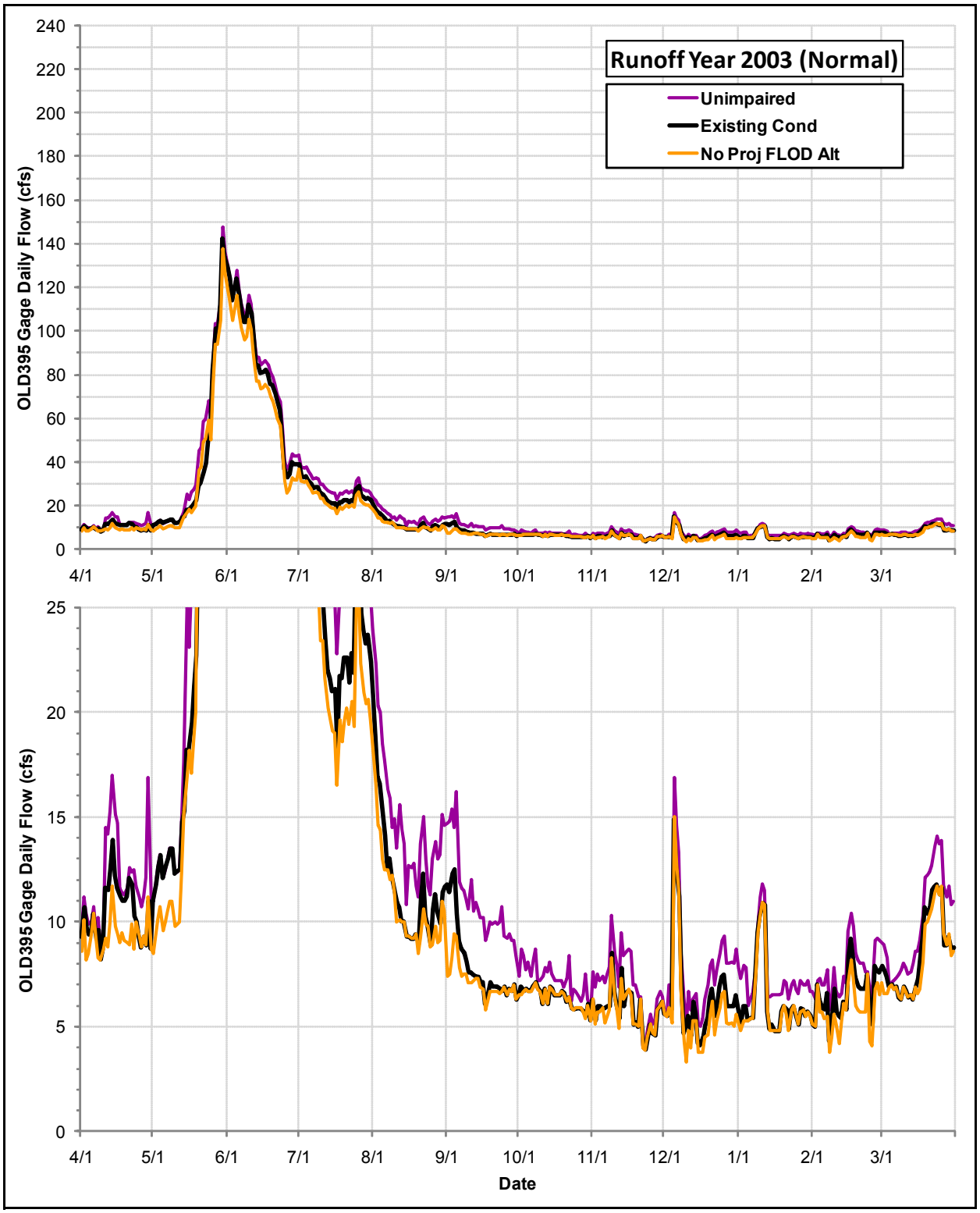

**Daily Flows (cfs) at the OLD395 Gage under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 2000**



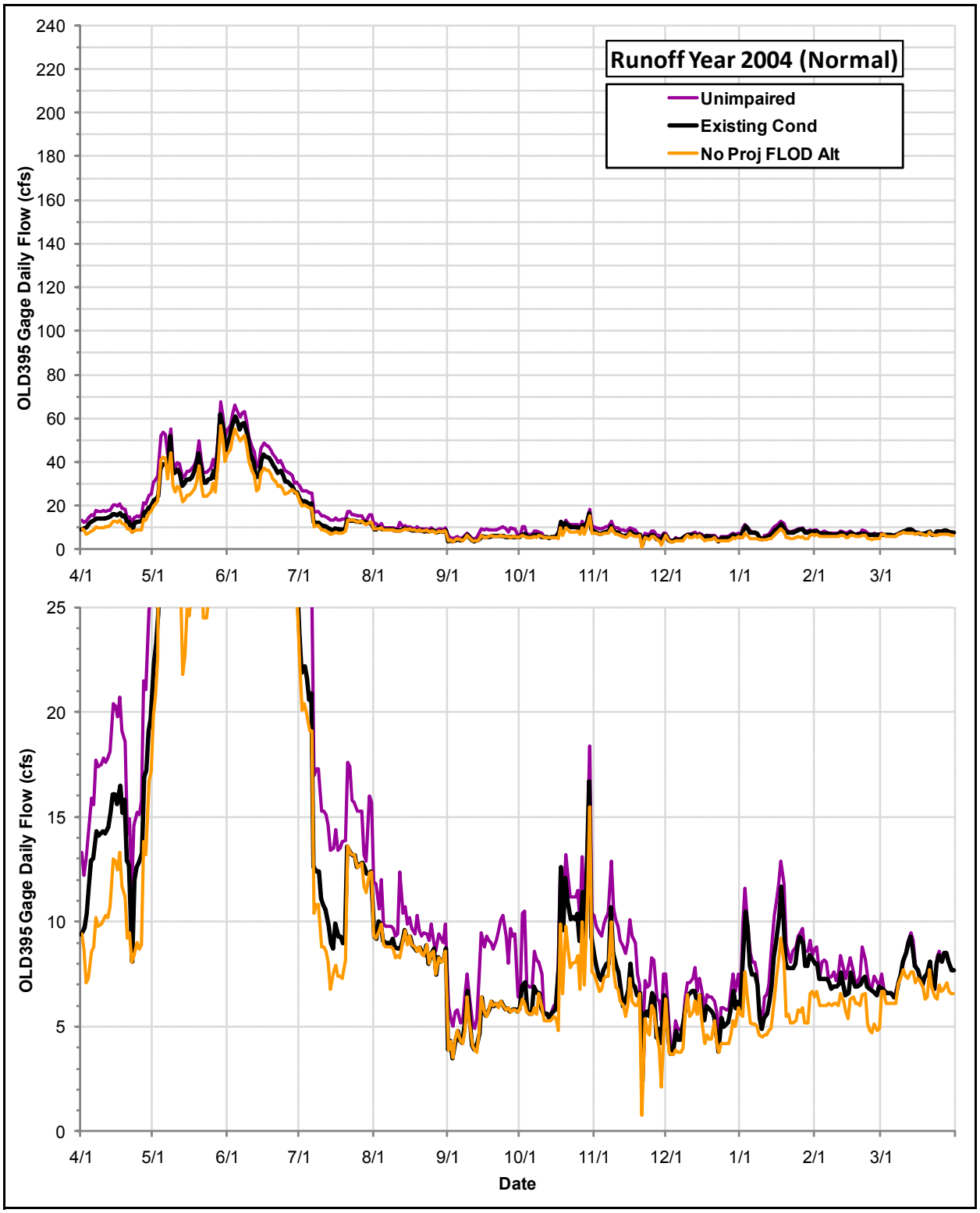

**Daily Flows (cfs) at the OLD395 Gage under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 2001**



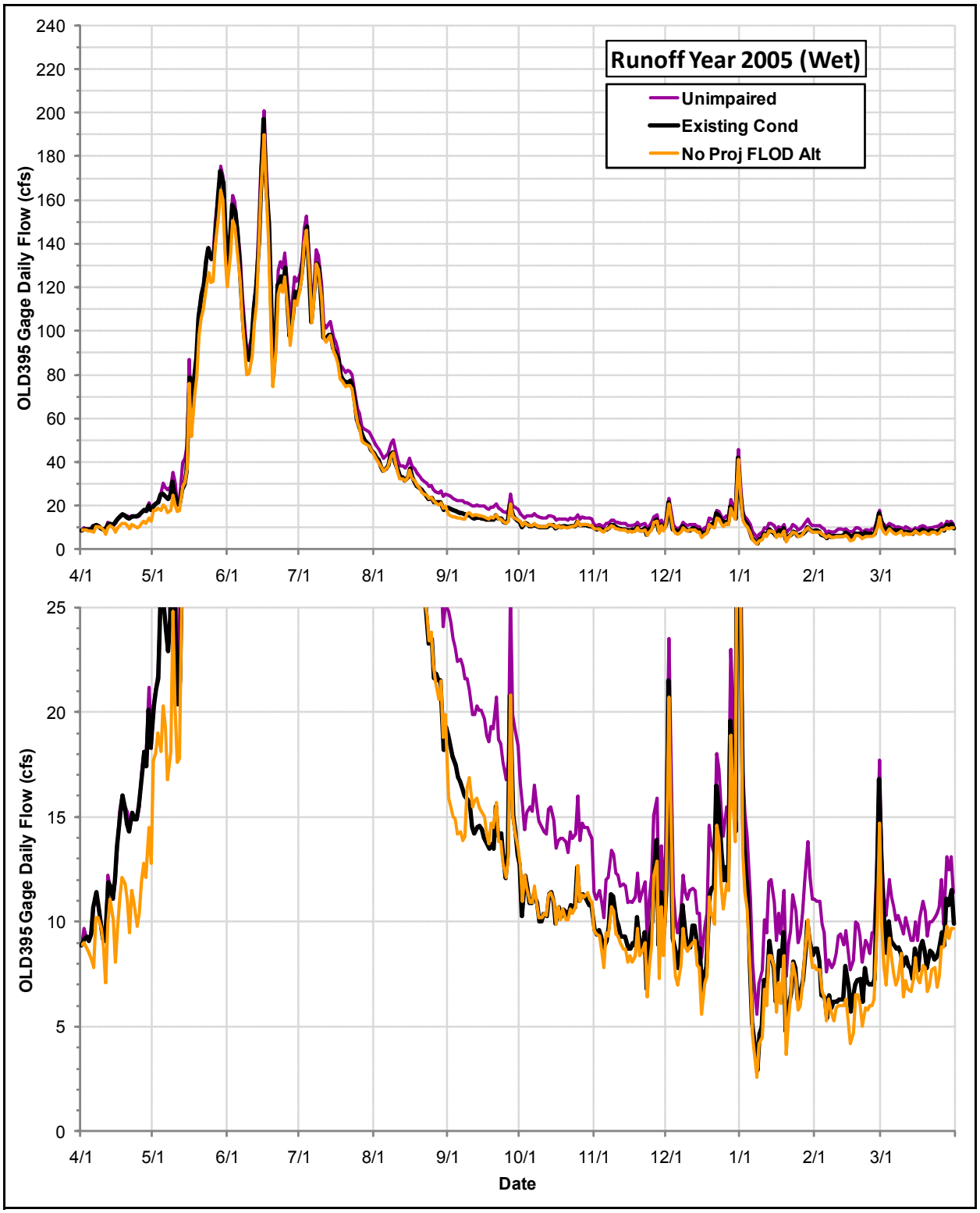

**Daily Flows (cfs) at the OLD395 Gage under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 2002**



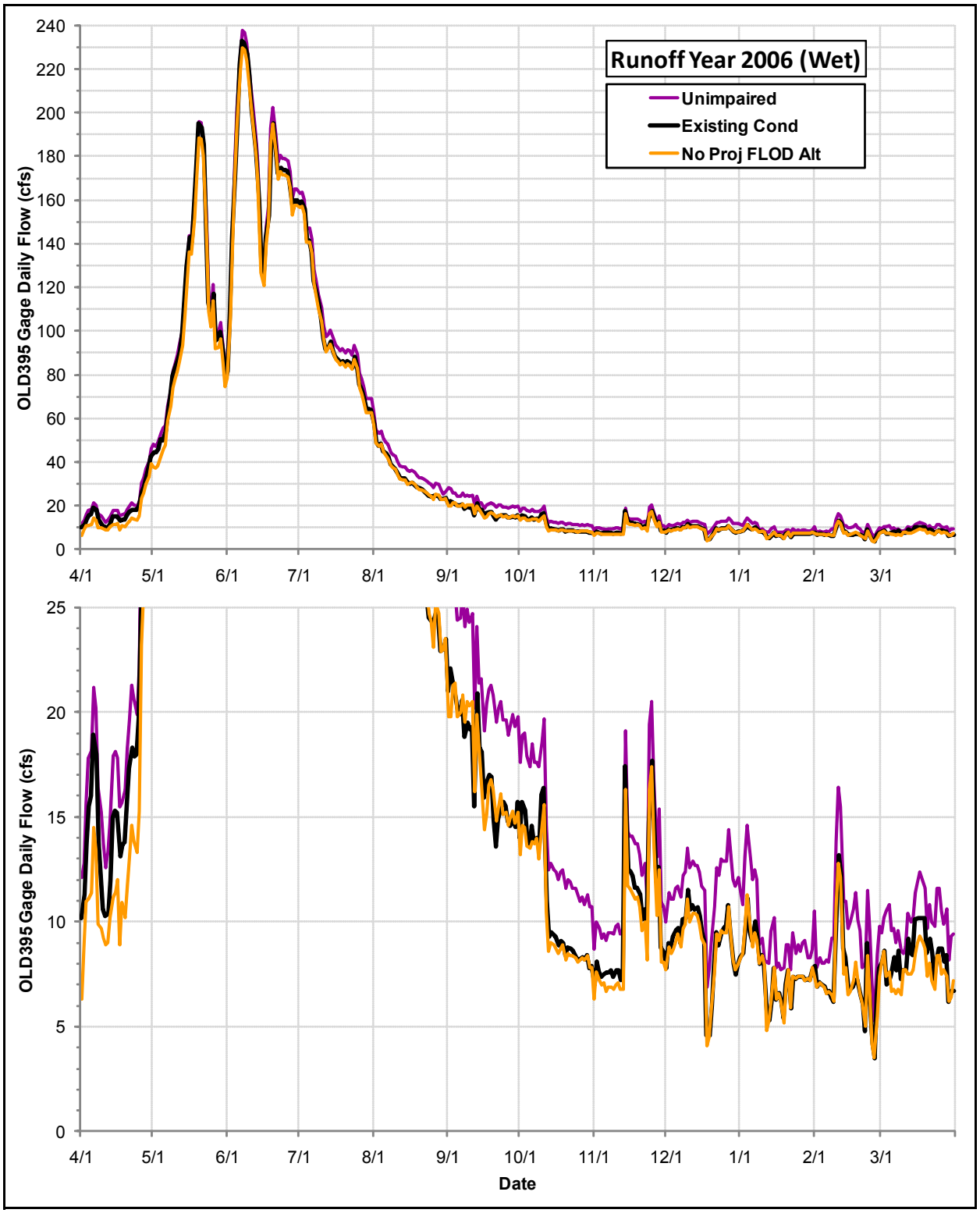

**Daily Flows (cfs) at the OLD395 Gage under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 2003**



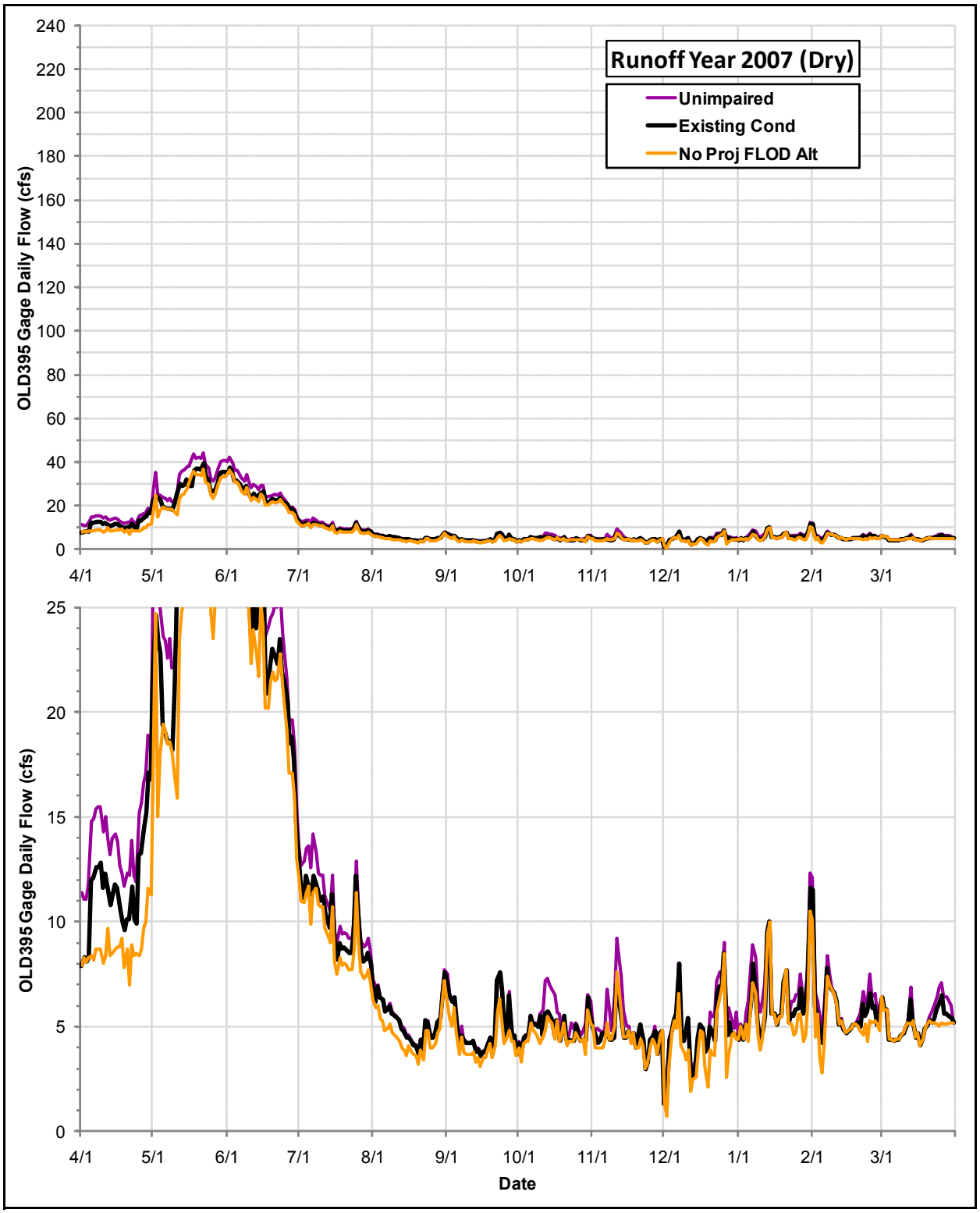

**Daily Flows (cfs) at the OLD395 Gage under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 2004**




**Daily Flows (cfs) at the OLD395 Gage under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 2005**




**Daily Flows (cfs) at the OLD395 Gage under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 2006**




**Daily Flows (cfs) at the OLD395 Gage under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 2007**

**Monthly Averages of Daily Flows (cfs) at the USGS Hot Creek Flume Gage by Runoff Year and Runoff Year Type for the 20-Year Evaluation Period under the No Project Alternative (Future Level of Demand)**

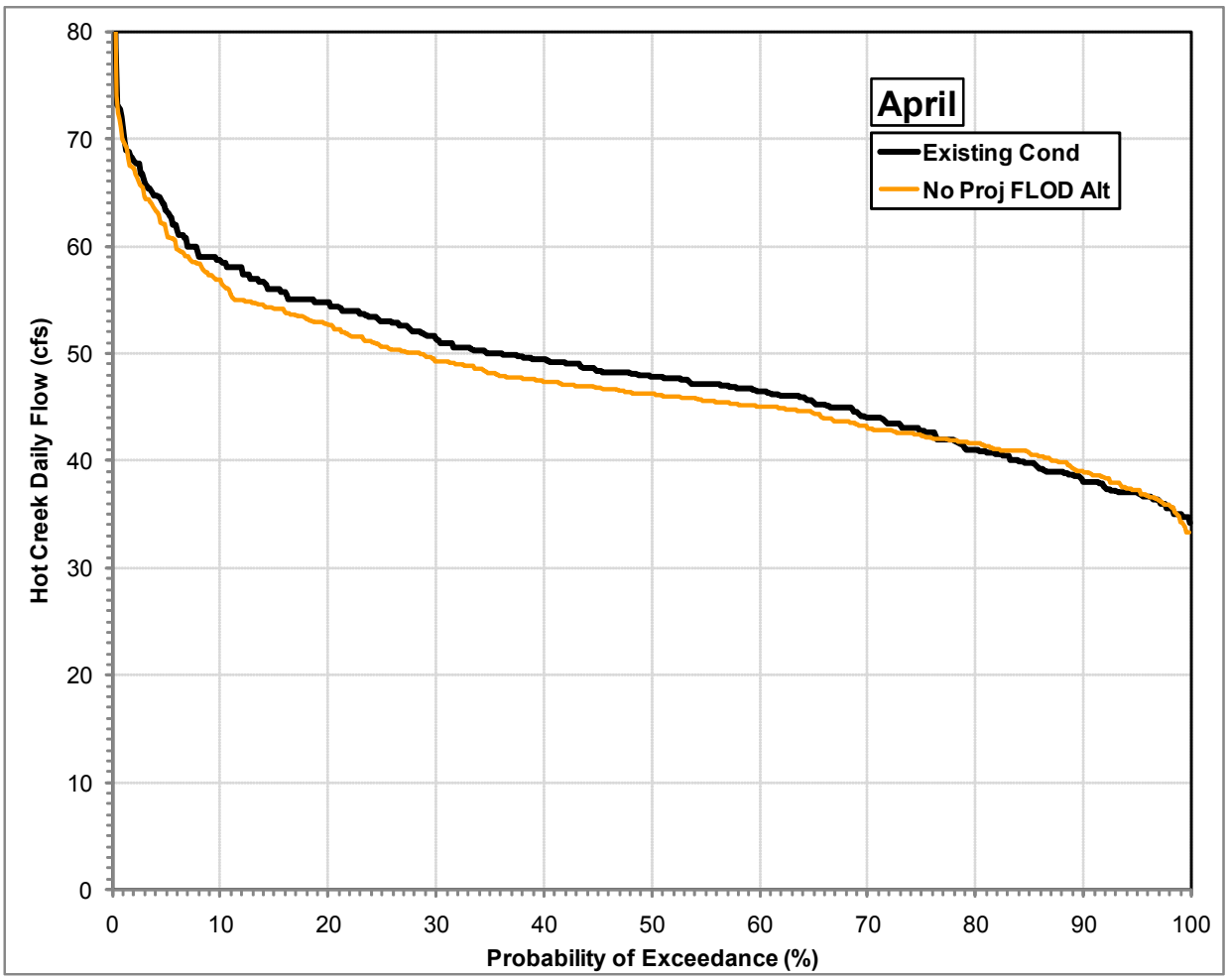
| Runoff Year | Runoff Year Type | Average Hot Creek Daily Flow (cfs) under the No Proj FLOD Alt | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Annual |
| **1988** | **D** | 45.1 | 51.5 | 53.7 | 46.4 | 44.4 | 42.1 | 41.3 | 42.7 | 39.1 | 39.0 | 40.7 | 41.8 | 44.0 |
| **1989** | **N** | 45.5 | 53.8 | 52.6 | 42.8 | 41.0 | 40.0 | 38.7 | 39.1 | 37.6 | 37.9 | 38.3 | 40.0 | 42.3 |
| **1990** | **D** | 38.9 | 42.4 | 44.2 | 38.5 | 38.2 | 35.2 | 33.9 | 34.5 | 32.6 | 33.2 | 35.4 | 37.4 | 37.0 |
| **1991** | **N** | 41.9 | 43.5 | 65.3 | 48.2 | 42.5 | 40.8 | 37.0 | 36.5 | 33.8 | 34.3 | 34.9 | 36.5 | 41.3 |
| **1992** | **N** | 39.8 | 46.4 | 43.3 | 38.4 | 35.0 | 33.4 | 33.1 | 32.6 | 29.4 | 30.4 | 32.2 | 38.7 | 36.1 |
| **1993** | **W** | 49.9 | 71.2 | 111.6 | 102.8 | 63.8 | 52.7 | 46.9 | 43.0 | 39.3 | 38.5 | 37.1 | 37.6 | 58.0 |
| **1994** | **D** | 39.5 | 46.5 | 51.1 | 40.7 | 35.0 | 32.6 | 31.4 | 31.2 | 32.2 | 33.2 | 34.4 | 42.1 | 37.5 |
| **1995** | **W** | 50.7 | 70.2 | 151.2 | 210.6 | 132.3 | 92.3 | 67.5 | 56.9 | 56.7 | 51.2 | 54.1 | 52.5 | 87.4 |
| **1996** | **N** | 60.6 | 112.2 | 139.5 | 95.3 | 71.0 | 60.1 | 53.2 | 57.2 | 52.6 | 94.0 | 57.7 | 54.9 | 75.8 |
| **1997** | **N** | 57.0 | 104.9 | 116.5 | 78.5 | 62.0 | 58.2 | 52.3 | 50.4 | 49.4 | 52.0 | 50.4 | 54.7 | 65.6 |
| **1998** | **N** | 55.3 | 60.5 | 133.1 | 180.3 | 105.5 | 84.2 | 67.4 | 63.5 | 55.1 | 53.4 | 54.6 | 50.7 | 80.5 |
| **1999** | **N** | 50.9 | 78.2 | 112.9 | 74.5 | 57.3 | 51.4 | 49.0 | 48.4 | 44.3 | 46.1 | 47.0 | 45.5 | 58.8 |
| **2000** | **N** | 44.0 | 80.2 | 95.8 | 59.6 | 52.1 | 48.0 | 46.9 | 44.5 | 43.5 | 42.2 | 42.1 | 47.3 | 53.9 |
| **2001** | **N** | 45.9 | 81.8 | 67.7 | 51.7 | 46.4 | 43.9 | 40.6 | 40.0 | 40.0 | 38.6 | 38.7 | 39.6 | 48.0 |
| **2002** | **N** | 44.9 | 48.5 | 66.0 | 46.2 | 42.2 | 39.4 | 39.0 | 46.8 | 41.0 | 42.9 | 41.7 | 42.6 | 45.1 |
| **2003** | **N** | 41.6 | 58.1 | 94.0 | 56.2 | 48.8 | 41.4 | 39.7 | 40.2 | 40.4 | 40.5 | 40.7 | 45.0 | 48.9 |
| **2004** | **N** | 44.1 | 54.4 | 63.3 | 48.2 | 43.5 | 40.4 | 39.9 | 38.5 | 36.5 | 37.5 | 39.0 | 41.9 | 43.9 |
| **2005** | **W** | 47.7 | 86.0 | 134.0 | 119.3 | 75.6 | 60.3 | 52.9 | 46.8 | 50.1 | 45.2 | 48.3 | 48.4 | 68.0 |
| **2006** | **W** | 56.1 | 119.2 | 188.6 | 138.7 | 84.3 | 65.0 | 61.0 | 56.3 | 51.8 | 48.0 | 46.2 | 48.6 | 80.5 |
| **2007** | **D** | 45.8 | 53.8 | 55.5 | 47.0 | 41.4 | 41.4 | 40.4 | 39.7 | 37.8 | 40.4 | 41.4 | 45.0 | 44.1 |
| **Average** | | 47.3 | 68.2 | 92.0 | 78.2 | 58.1 | 50.1 | 45.6 | 44.4 | 42.2 | 43.9 | 42.8 | 44.5 | 54.8 |

**Monthly Averages of Daily Flows (cfs) at the USGS Hot Creek Flume Gage by Runoff Year and Runoff Year Type for the 20-Year Evaluation Period under the Existing Condition**

| Runoff Year | Runoff Year Type | Average Hot Creek Daily Flow (cfs) under the Existing Cond | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Annual |
| 1988 | D | 45.6 | 50.1 | 57.5 | 46.7 | 44.7 | 42.2 | 41.5 | 42.9 | 39.0 | 39.1 | 40.7 | 41.8 | 44.3 |
| 1989 | N | 41.8 | 54.2 | 55.2 | 43.2 | 41.0 | 40.5 | 38.8 | 39.4 | 37.6 | 37.8 | 38.2 | 39.9 | 42.3 |
| 1990 | D | 38.0 | 42.4 | 45.8 | 38.8 | 38.4 | 35.5 | 34.1 | 34.8 | 32.7 | 33.2 | 35.4 | 37.5 | 37.2 |
| 1991 | N | 41.9 | 42.0 | 69.7 | 49.2 | 43.5 | 42.3 | 37.5 | 37.4 | 34.0 | 34.3 | 34.8 | 36.5 | 41.9 |
| 1992 | N | 37.1 | 47.5 | 45.3 | 40.1 | 35.4 | 33.9 | 33.5 | 33.5 | 29.8 | 31.9 | 32.7 | 39.1 | 36.7 |
| 1993 | W | 49.3 | 74.3 | 117.5 | 104.0 | 64.0 | 54.6 | 47.3 | 43.4 | 39.8 | 38.7 | 37.6 | 37.5 | 59.1 |
| 1994 | D | 38.8 | 52.6 | 55.2 | 41.6 | 35.4 | 32.6 | 31.7 | 32.1 | 33.3 | 36.0 | 35.7 | 44.4 | 39.1 |
| 1995 | W | 54.1 | 76.6 | 159.5 | 212.6 | 133.8 | 93.7 | 67.4 | 57.4 | 57.4 | 52.0 | 54.6 | 52.8 | 89.5 |
| 1996 | N | 61.2 | 115.8 | 142.4 | 97.0 | 72.3 | 60.6 | 53.1 | 57.6 | 53.3 | 94.7 | 58.2 | 55.2 | 76.9 |
| 1997 | N | 59.4 | 107.9 | 118.8 | 80.3 | 62.9 | 58.8 | 52.7 | 50.6 | 49.9 | 52.6 | 50.9 | 55.1 | 66.7 |
| 1998 | N | 57.2 | 65.2 | 137.3 | 182.3 | 106.4 | 84.6 | 68.1 | 64.0 | 55.4 | 54.1 | 55.0 | 51.0 | 81.9 |
| 1999 | N | 52.0 | 82.6 | 116.8 | 76.5 | 58.8 | 52.4 | 49.2 | 49.0 | 44.6 | 46.8 | 47.7 | 45.9 | 60.2 |
| 2000 | N | 47.3 | 84.7 | 99.2 | 61.7 | 53.2 | 48.9 | 47.0 | 45.0 | 43.9 | 42.8 | 43.3 | 47.8 | 55.5 |
| 2001 | N | 48.3 | 85.6 | 68.9 | 52.5 | 46.4 | 44.0 | 40.7 | 40.7 | 40.6 | 38.9 | 39.4 | 40.1 | 48.9 |
| 2002 | N | 47.0 | 51.6 | 71.8 | 46.9 | 42.2 | 39.7 | 39.1 | 47.3 | 41.2 | 43.0 | 41.7 | 42.8 | 46.2 |
| 2003 | N | 42.7 | 59.4 | 101.2 | 58.6 | 49.7 | 42.2 | 39.7 | 40.3 | 40.9 | 40.6 | 41.4 | 45.3 | 50.2 |
| 2004 | N | 47.5 | 59.7 | 68.5 | 49.4 | 43.6 | 40.4 | 41.1 | 39.2 | 37.2 | 39.6 | 40.2 | 42.7 | 45.8 |
| 2005 | W | 50.5 | 92.2 | 140.0 | 120.2 | 75.9 | 60.6 | 52.9 | 47.4 | 50.9 | 45.8 | 49.1 | 49.4 | 69.7 |
| 2006 | W | 59.6 | 124.6 | 191.4 | 139.9 | 84.5 | 65.1 | 61.4 | 56.9 | 52.1 | 48.1 | 46.3 | 49.3 | 81.8 |
| 2007 | D | 48.6 | 56.2 | 56.6 | 47.7 | 42.1 | 42.0 | 40.7 | 39.7 | 38.5 | 40.8 | 41.9 | 45.2 | 45.0 |
| Average | | 48.4 | 71.3 | 95.9 | 79.5 | 58.7 | 50.7 | 45.9 | 44.9 | 42.6 | 44.5 | 43.2 | 45.0 | 55.9 |

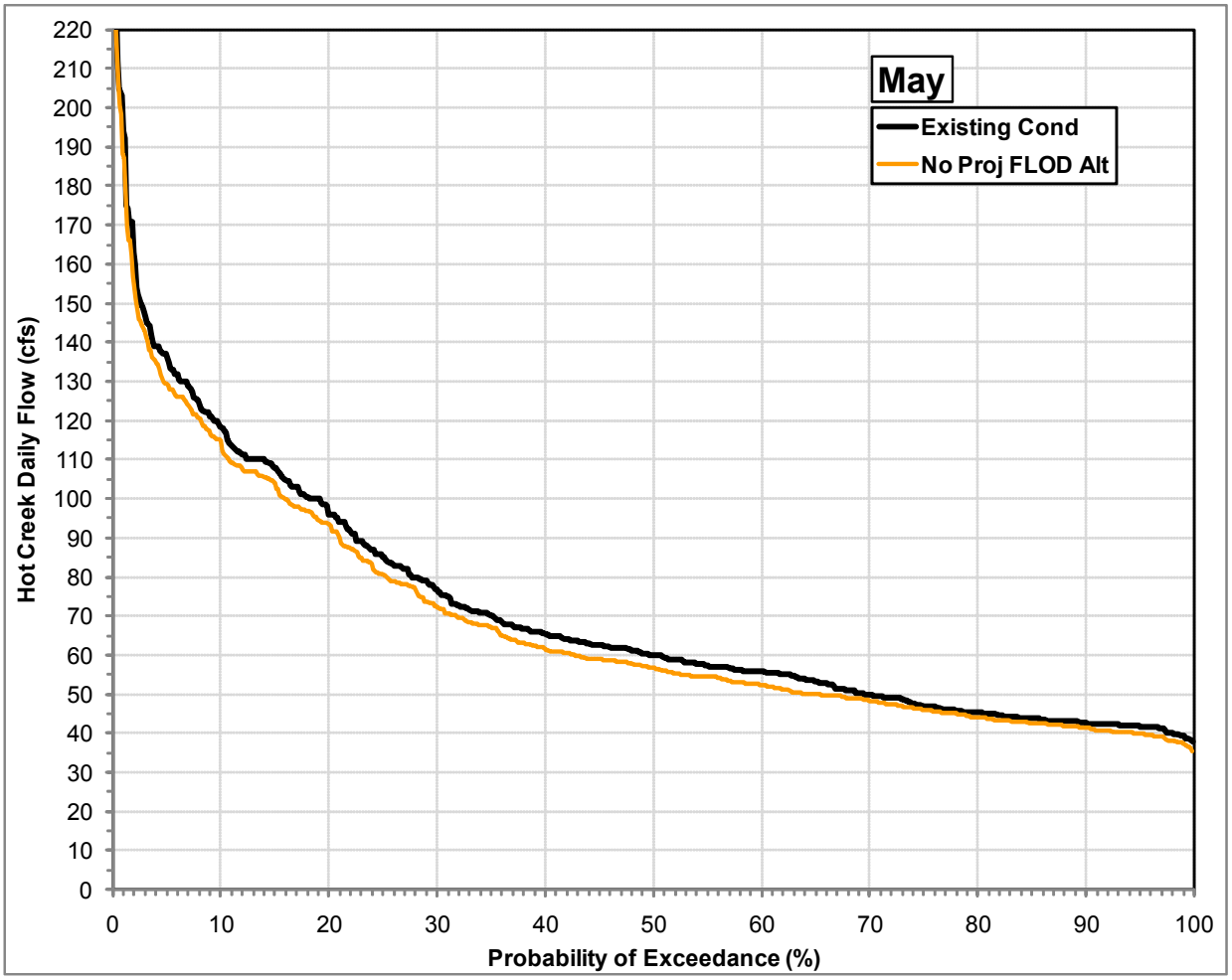
**Differences in Monthly Averages of Daily Flows (cfs) at the USGS Hot Creek Flume Gage by Runoff Year and Runoff Year Type for the 20-Year Evaluation Period under the No Project Alternative (Future Level of Demand) Relative to the Existing Condition. Positive Values Indicate that the No Project Alternative (Future Level of Demand) Flow Values are Higher than the Existing Condition Values**

| Runoff Year | Runoff Year Type | Average Hot Creek Daily Flow (cfs) Differences (No Proj FLOD Alt - Existing Cond) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Annual |
| 1988 | D | -0.4 | 1.4 | -3.8 | -0.3 | -0.3 | -0.1 | -0.2 | -0.2 | 0.0 | 0.0 | 0.0 | -0.1 | -0.3 |
| 1989 | N | 3.7 | -0.4 | -2.6 | -0.4 | 0.0 | -0.5 | -0.1 | -0.3 | -0.1 | 0.1 | 0.1 | 0.1 | 0.0 |
| 1990 | D | 0.9 | 0.0 | -1.5 | -0.3 | -0.1 | -0.3 | -0.2 | -0.3 | -0.1 | 0.0 | -0.1 | -0.1 | -0.2 |
| 1991 | N | 0.0 | 1.4 | -4.4 | -1.0 | -1.0 | -1.4 | -0.5 | -0.9 | -0.2 | 0.0 | 0.1 | 0.0 | -0.7 |
| 1992 | N | 2.7 | -1.1 | -2.0 | -1.7 | -0.3 | -0.5 | -0.4 | -0.8 | -0.4 | -1.5 | -0.4 | -0.3 | -0.6 |
| 1993 | W | 0.6 | -3.1 | -5.9 | -1.2 | -0.2 | -2.0 | -0.3 | -0.4 | -0.5 | -0.2 | -0.5 | 0.0 | -1.1 |
| 1994 | D | 0.7 | -6.0 | -4.1 | -0.9 | -0.5 | -0.1 | -0.2 | -0.9 | -1.1 | -2.8 | -1.3 | -2.3 | -1.6 |
| 1995 | W | -3.3 | -6.4 | -8.3 | -2.0 | -1.5 | -1.4 | 0.1 | -0.4 | -0.7 | -0.8 | -0.5 | -0.3 | -2.1 |
| 1996 | N | -0.6 | -3.6 | -2.9 | -1.7 | -1.2 | -0.5 | 0.0 | -0.4 | -0.7 | -0.7 | -0.5 | -0.3 | -1.1 |
| 1997 | N | -2.4 | -3.0 | -2.3 | -1.8 | -0.9 | -0.6 | -0.4 | -0.2 | -0.5 | -0.6 | -0.5 | -0.4 | -1.1 |
| 1998 | N | -1.9 | -4.7 | -4.2 | -2.1 | -1.0 | -0.4 | -0.6 | -0.5 | -0.3 | -0.7 | -0.4 | -0.3 | -1.4 |
| 1999 | N | -1.1 | -4.4 | -3.9 | -2.0 | -1.5 | -1.0 | -0.1 | -0.7 | -0.3 | -0.7 | -0.7 | -0.4 | -1.4 |
| 2000 | N | -3.2 | -4.5 | -3.4 | -2.1 | -1.1 | -0.9 | -0.1 | -0.5 | -0.4 | -0.6 | -1.2 | -0.5 | -1.5 |
| 2001 | N | -2.4 | -3.8 | -1.1 | -0.8 | 0.0 | -0.1 | -0.1 | -0.7 | -0.6 | -0.3 | -0.7 | -0.5 | -0.9 |
| 2002 | N | -2.1 | -3.1 | -5.9 | -0.7 | 0.0 | -0.2 | -0.2 | -0.5 | -0.2 | -0.1 | -0.1 | -0.2 | -1.1 |
| 2003 | N | -1.1 | -1.3 | -7.3 | -2.4 | -0.9 | -0.8 | 0.0 | -0.1 | -0.6 | -0.1 | -0.7 | -0.3 | -1.3 |
| 2004 | N | -3.4 | -5.3 | -5.2 | -1.2 | -0.1 | 0.0 | -1.2 | -0.7 | -0.7 | -2.2 | -1.2 | -0.8 | -1.8 |
| 2005 | W | -2.9 | -6.3 | -6.0 | -1.0 | -0.3 | -0.3 | 0.0 | -0.6 | -0.8 | -0.6 | -0.9 | -1.1 | -1.7 |
| 2006 | W | -3.5 | -5.4 | -2.8 | -1.3 | -0.3 | 0.0 | -0.4 | -0.6 | -0.2 | -0.1 | -0.1 | -0.7 | -1.3 |
| 2007 | D | -2.8 | -2.4 | -1.2 | -0.7 | -0.7 | -0.6 | -0.3 | -0.1 | -0.7 | -0.4 | -0.5 | -0.2 | -0.9 |
| Average | | -1.1 | -3.1 | -3.9 | -1.3 | -0.6 | -0.6 | -0.3 | -0.5 | -0.4 | -0.6 | -0.5 | -0.4 | -1.1 |



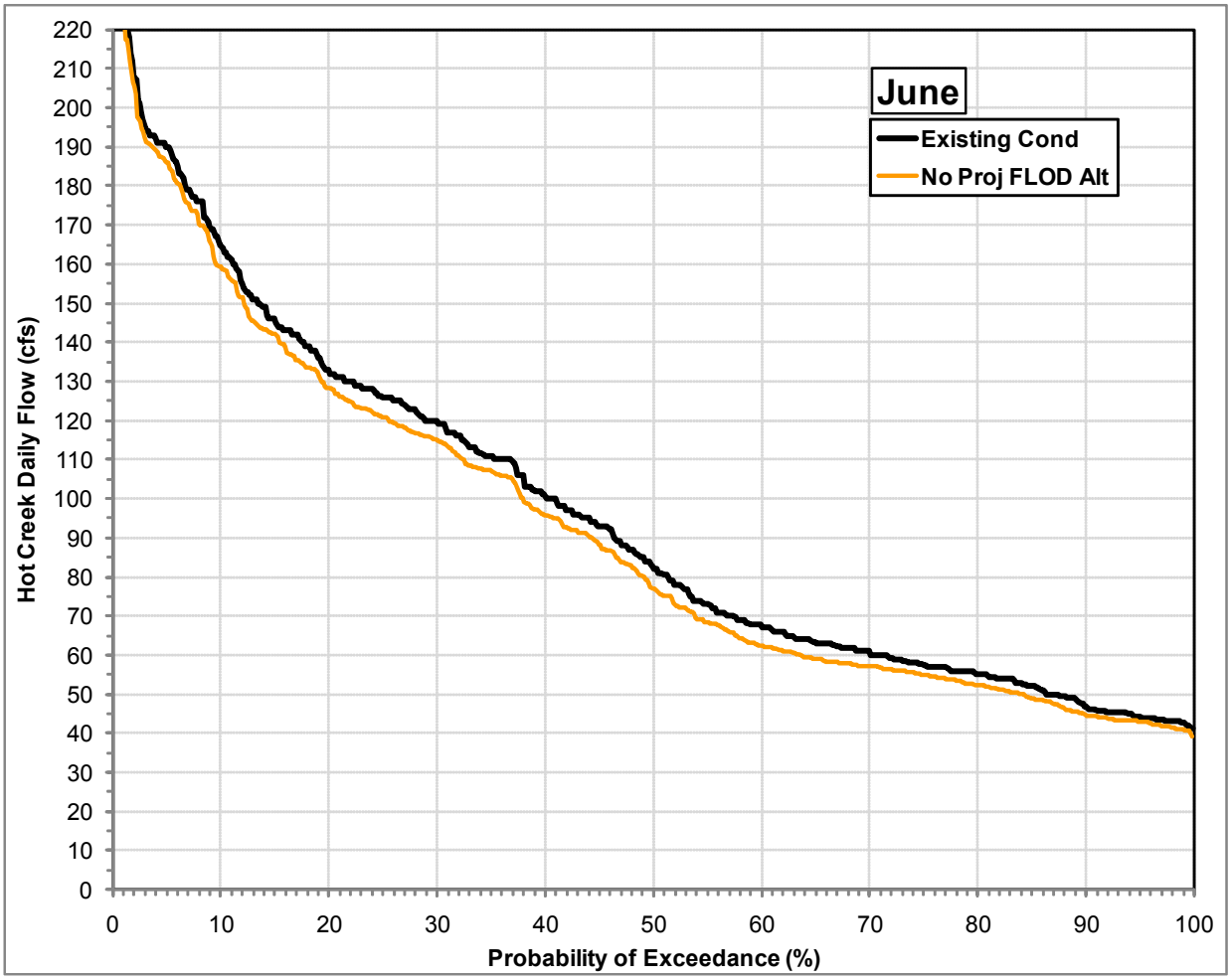

| Probability of Exceedance (%) | April Hot Creek Daily Flow (cfs) | |
|---|---|---|
| | No Proj FLOD Alt | Existing Cond |
| 5 | 61.3 | 63.0 |
| 10 | 56.9 | 58.4 |
| 20 | 52.7 | 54.7 |
| 25 | 50.6 | 53.0 |
| 50 | 46.2 | 47.8 |
| 75 | 42.3 | 42.8 |
| 80 | 41.6 | 41.0 |
| 90 | 38.9 | 38.0 |
| 95 | 37.2 | 37.0 |

**Cumulative Exceedance Probability Distribution of Daily Flows (cfs) at the USGS Hot Creek Flume Gage under the No Project Alternative (Future Level of Demand) and the Existing Condition during April for the 20-Year Evaluation Period**



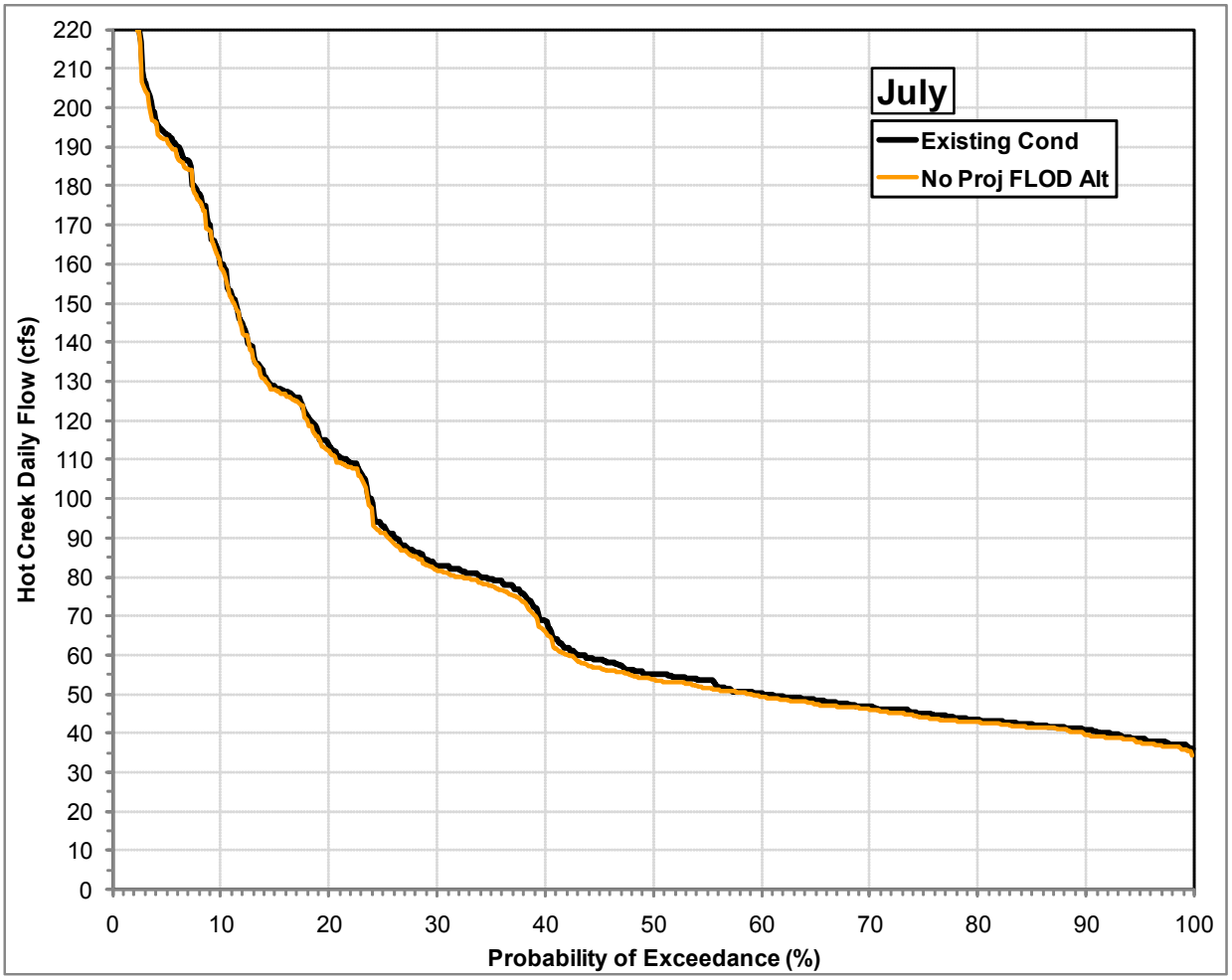

| Probability of Exceedance (%) | May Hot Creek Daily Flow (cfs) | |
|---|---|---|
| | No Proj FLOD Alt | Existing Cond |
| 5 | 129.4 | 135.0 |
| 10 | 114.5 | 118.2 |
| 20 | 93.4 | 96.0 |
| 25 | 80.6 | 85.0 |
| 50 | 56.7 | 60.0 |
| 75 | 46.1 | 47.0 |
| 80 | 44.1 | 45.2 |
| 90 | 41.5 | 42.7 |
| 95 | 39.9 | 41.8 |

**Cumulative Exceedance Probability Distribution of Daily Flows (cfs) at the USGS Hot Creek Flume Gage under the No Project Alternative (Future Level of Demand) and the Existing Condition during May for the 20-Year Evaluation Period**



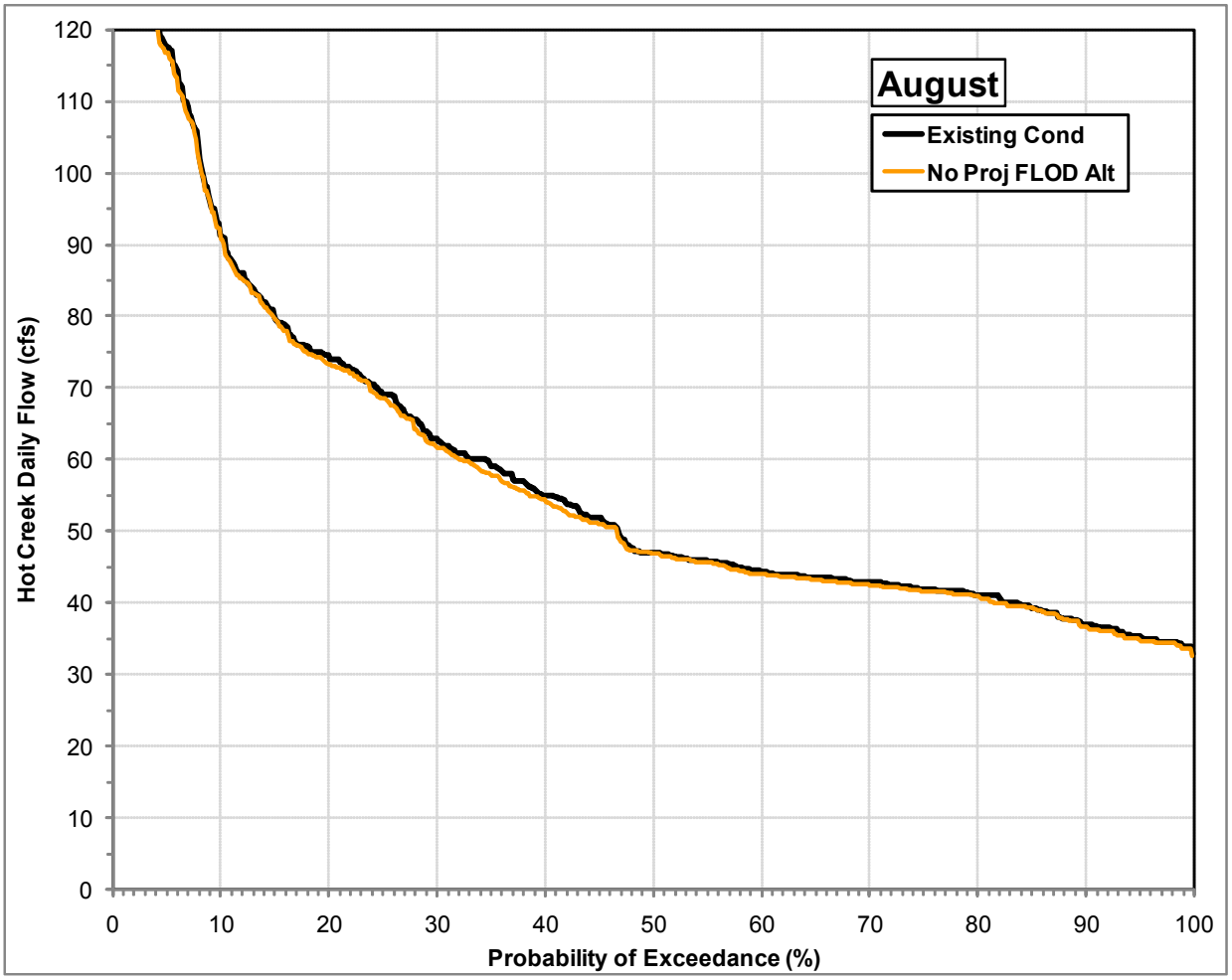

| Probability of Exceedance (%) | June Hot Creek Daily Flow (cfs) | |
|---|---|---|
| | No Proj FLOD Alt | Existing Cond |
| 5 | 186.1 | 190.0 |
| 10 | 159.3 | 164.0 |
| 20 | 128.3 | 132.0 |
| 25 | 121.0 | 126.0 |
| 50 | 77.1 | 82.0 |
| 75 | 54.9 | 57.4 |
| 80 | 52.3 | 55.2 |
| 90 | 44.6 | 47.0 |
| 95 | 43.1 | 44.1 |

**Cumulative Exceedance Probability Distribution of Daily Flows (cfs) at the USGS Hot Creek Flume Gage under the No Project Alternative (Future Level of Demand) and the Existing Condition during June for the 20-Year Evaluation Period**



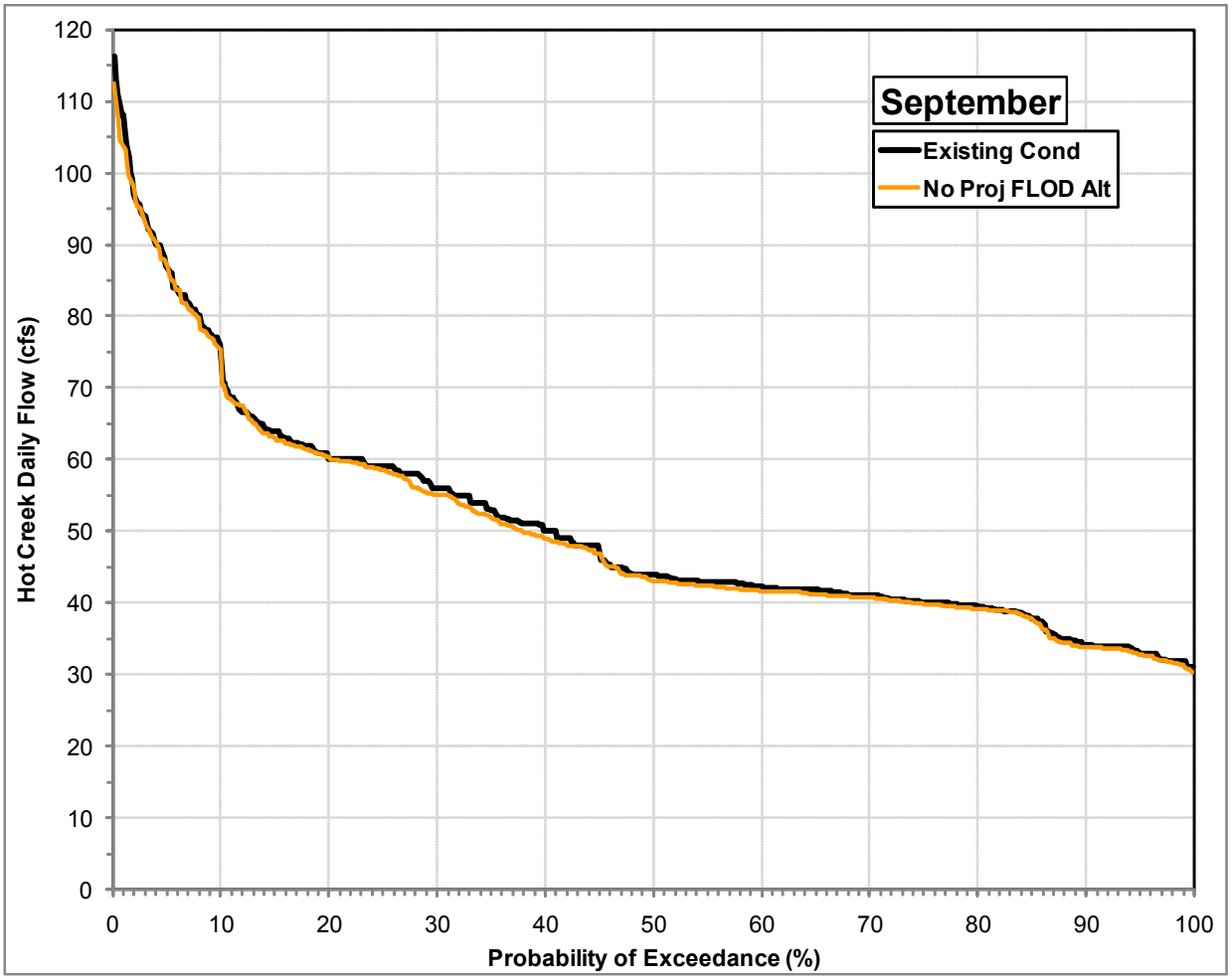

| Probability of Exceedance (%) | July Hot Creek Daily Flow (cfs) | |
|---|---|---|
| | No Proj FLOD Alt | Existing Cond |
| 5 | 191.8 | 193.0 |
| 10 | 159.1 | 159.9 |
| 20 | 112.1 | 113.0 |
| 25 | 91.2 | 93.0 |
| 50 | 53.7 | 55.0 |
| 75 | 44.1 | 45.0 |
| 80 | 42.9 | 43.4 |
| 90 | 39.6 | 41.0 |
| 95 | 37.6 | 38.7 |

**Cumulative Exceedance Probability Distribution of Daily Flows (cfs) at the USGS Hot Creek Flume Gage under the No Project Alternative (Future Level of Demand) and the Existing Condition during July for the 20-Year Evaluation Period**



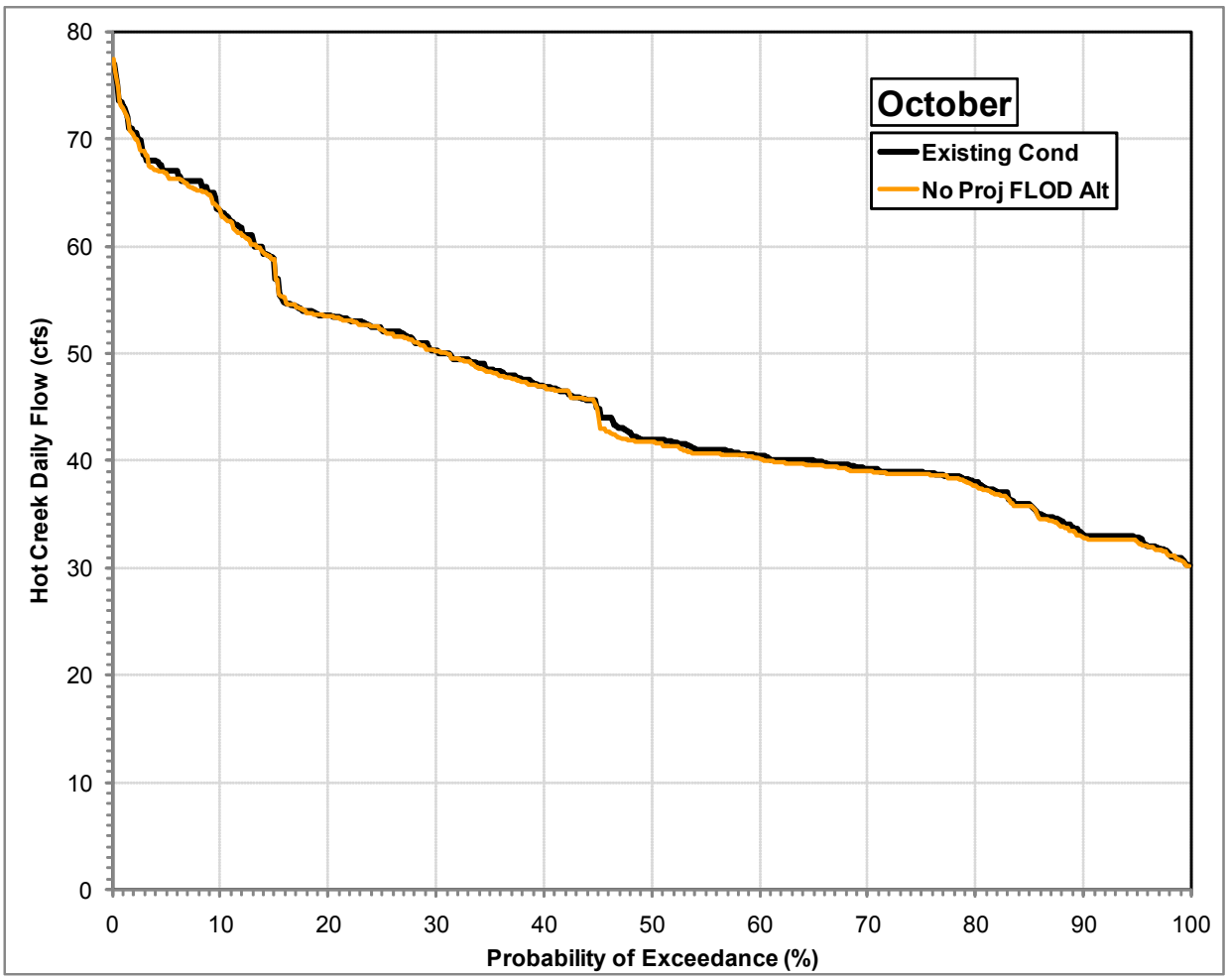

| Probability of Exceedance (%) | August Hot Creek Daily Flow (cfs) | |
|---|---|---|
| | No Proj FLOD Alt | Existing Cond |
| 5 | 116.7 | 117.5 |
| 10 | 90.9 | 91.0 |
| 20 | 73.3 | 74.0 |
| 25 | 68.6 | 69.0 |
| 50 | 47.0 | 47.0 |
| 75 | 41.7 | 41.9 |
| 80 | 40.9 | 41.0 |
| 90 | 36.6 | 37.0 |
| 95 | 34.7 | 35.3 |

**Cumulative Exceedance Probability Distribution of Daily Flows (cfs) at the USGS Hot Creek Flume Gage under the No Project Alternative (Future Level of Demand) and the Existing Condition during August for the 20-Year Evaluation Period**



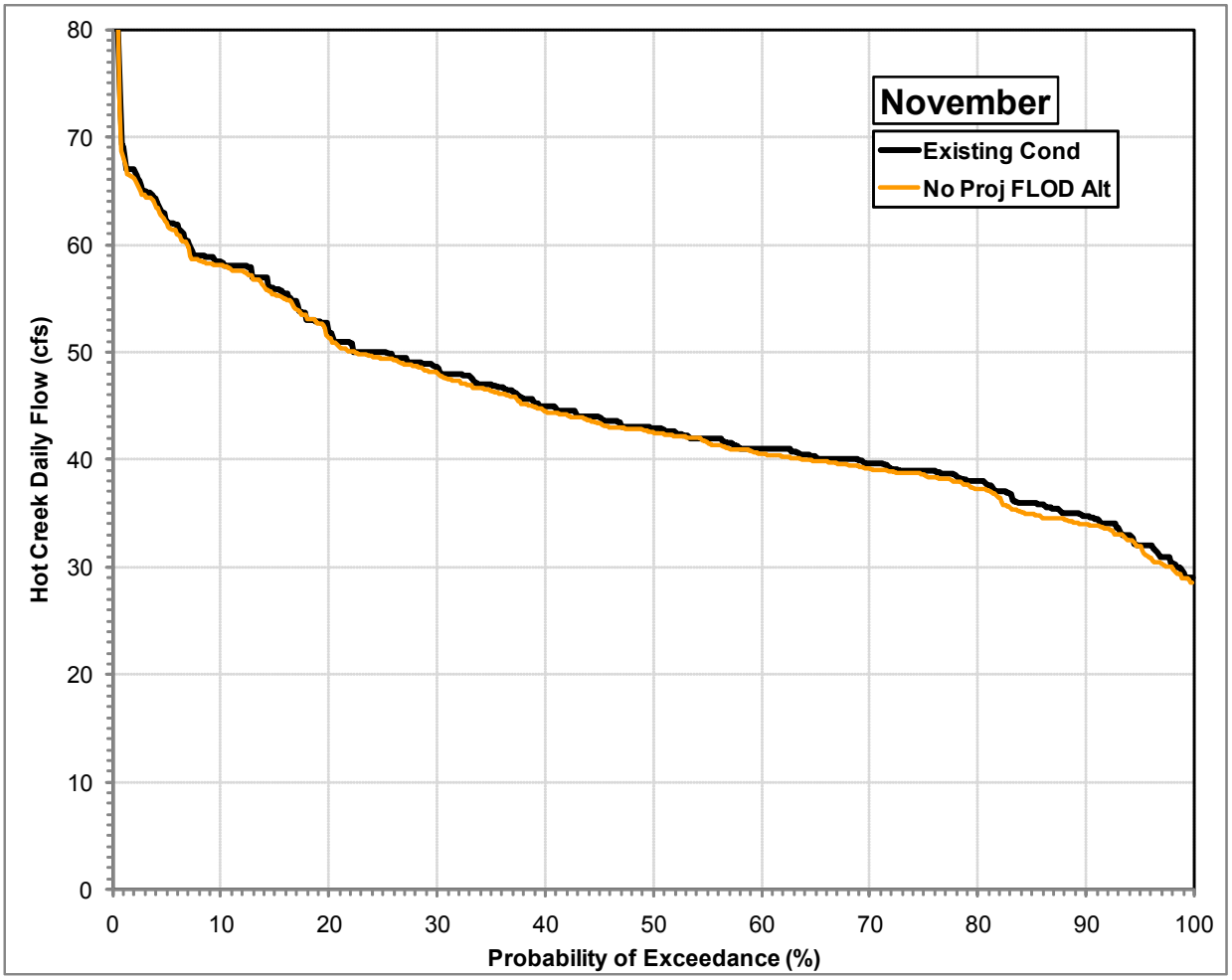

| Probability of Exceedance (%) | September Hot Creek Daily Flow (cfs) | |
|---|---|---|
| | No Proj FLOD Alt | Existing Cond |
| 5 | 87.2 | 86.5 |
| 10 | 74.7 | 70.7 |
| 20 | 60.2 | 60.0 |
| 25 | 58.5 | 59.0 |
| 50 | 43.1 | 44.0 |
| 75 | 39.8 | 40.1 |
| 80 | 39.2 | 39.5 |
| 90 | 33.9 | 34.1 |
| 95 | 32.8 | 33.0 |

**Cumulative Exceedance Probability Distribution of Daily Flows (cfs) at the USGS Hot Creek Flume Gage under the No Project Alternative (Future Level of Demand) and the Existing Condition during September for the 20-Year Evaluation Period**



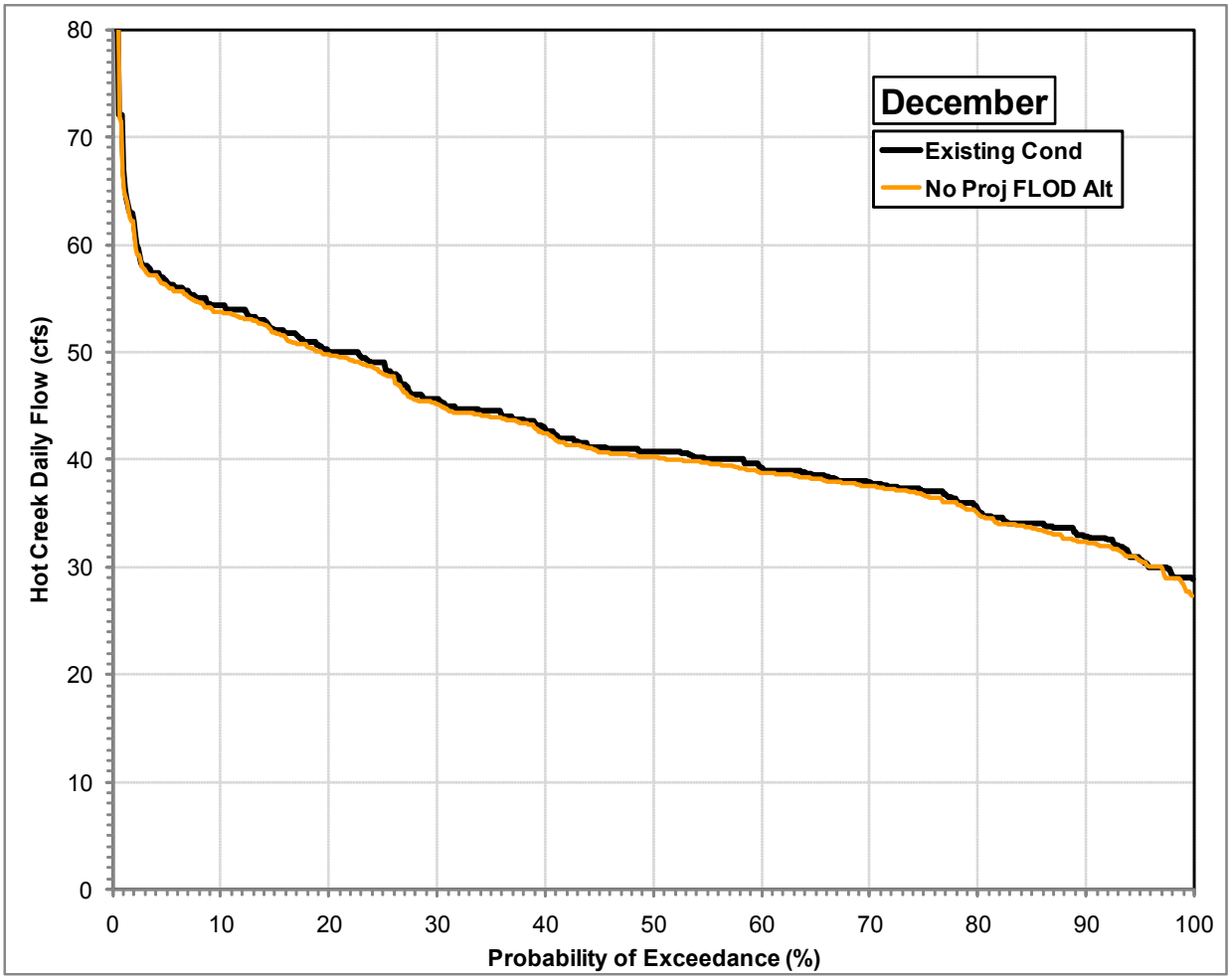

| Probability of Exceedance (%) | October Hot Creek Daily Flow (cfs) | |
|---|---|---|
| | No Proj FLOD Alt | Existing Cond |
| 5 | 66.8 | 67.0 |
| 10 | 63.2 | 63.0 |
| 20 | 53.4 | 53.5 |
| 25 | 52.2 | 52.0 |
| 50 | 41.7 | 42.0 |
| 75 | 38.7 | 38.9 |
| 80 | 37.7 | 38.0 |
| 90 | 32.8 | 33.1 |
| 95 | 32.3 | 32.9 |

**Cumulative Exceedance Probability Distribution of Daily Flows (cfs) at the USGS Hot Creek Flume Gage under the No Project Alternative (Future Level of Demand) and the Existing Condition during October for the 20-Year Evaluation Period**



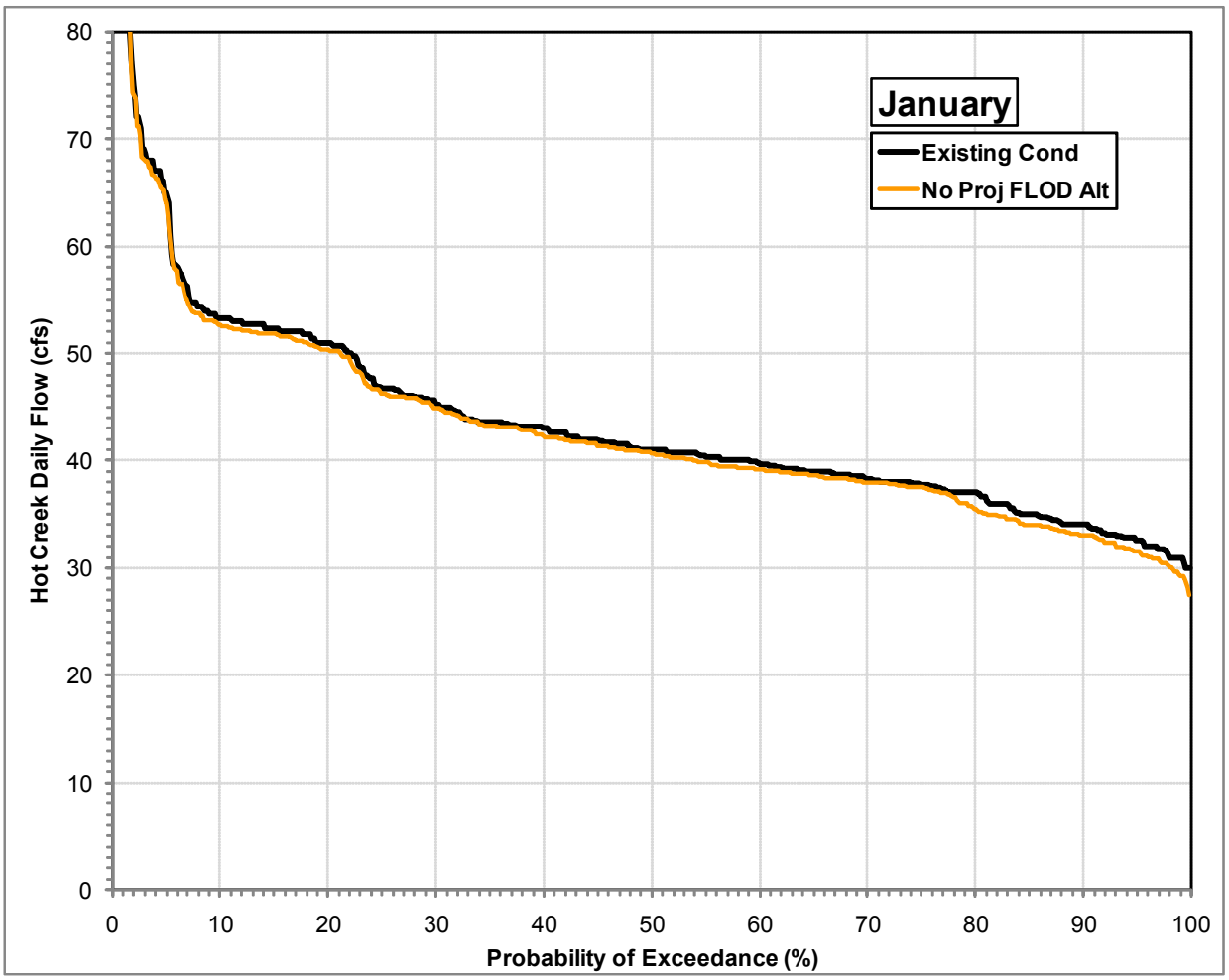

| Probability of Exceedance (%) | November Hot Creek Daily Flow (cfs) | |
|---|---|---|
| | No Proj FLOD Alt | Existing Cond |
| 5 | 62.1 | 62.0 |
| 10 | 58.1 | 58.3 |
| 20 | 51.3 | 51.8 |
| 25 | 49.4 | 50.0 |
| 50 | 42.6 | 42.9 |
| 75 | 38.6 | 39.0 |
| 80 | 37.3 | 38.0 |
| 90 | 34.0 | 34.7 |
| 95 | 32.0 | 32.0 |

**Cumulative Exceedance Probability Distribution of Daily Flows (cfs) at the USGS Hot Creek Flume Gage under the No Project Alternative (Future Level of Demand) and the Existing Condition during November for the 20-Year Evaluation Period**



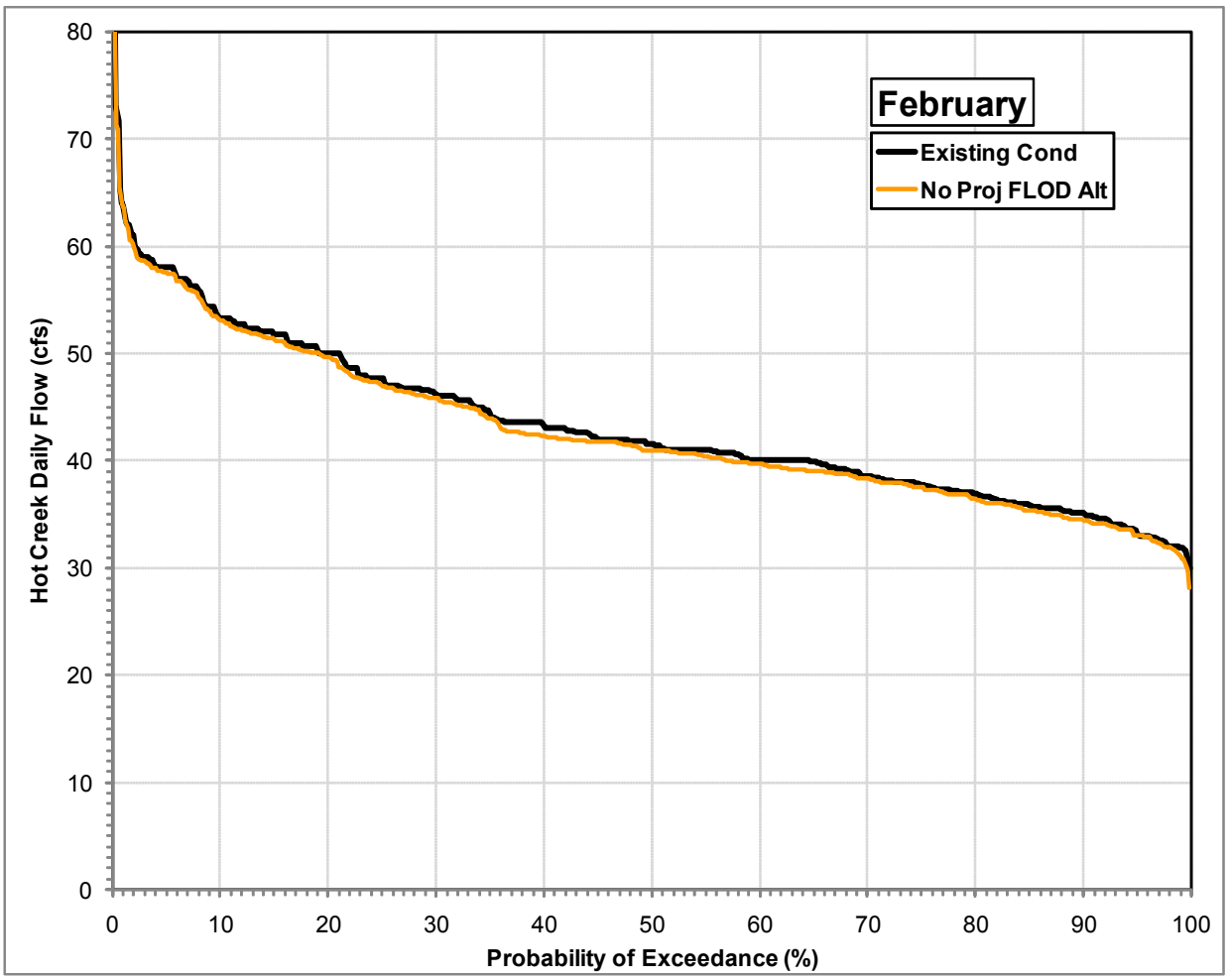

| Probability of Exceedance (%) | December Hot Creek Daily Flow (cfs) | |
|---|---|---|
| | No Proj FLOD Alt | Existing Cond |
| 5 | 56.2 | 56.3 |
| 10 | 53.7 | 54.3 |
| 20 | 49.8 | 50.0 |
| 25 | 48.0 | 49.0 |
| 50 | 40.2 | 40.7 |
| 75 | 36.7 | 37.1 |
| 80 | 35.0 | 35.2 |
| 90 | 32.3 | 32.9 |
| 95 | 30.6 | 30.7 |

**Cumulative Exceedance Probability Distribution of Daily Flows (cfs) at the USGS Hot Creek Flume Gage under the No Project Alternative (Future Level of Demand) and the Existing Condition during December for the 20-Year Evaluation Period**



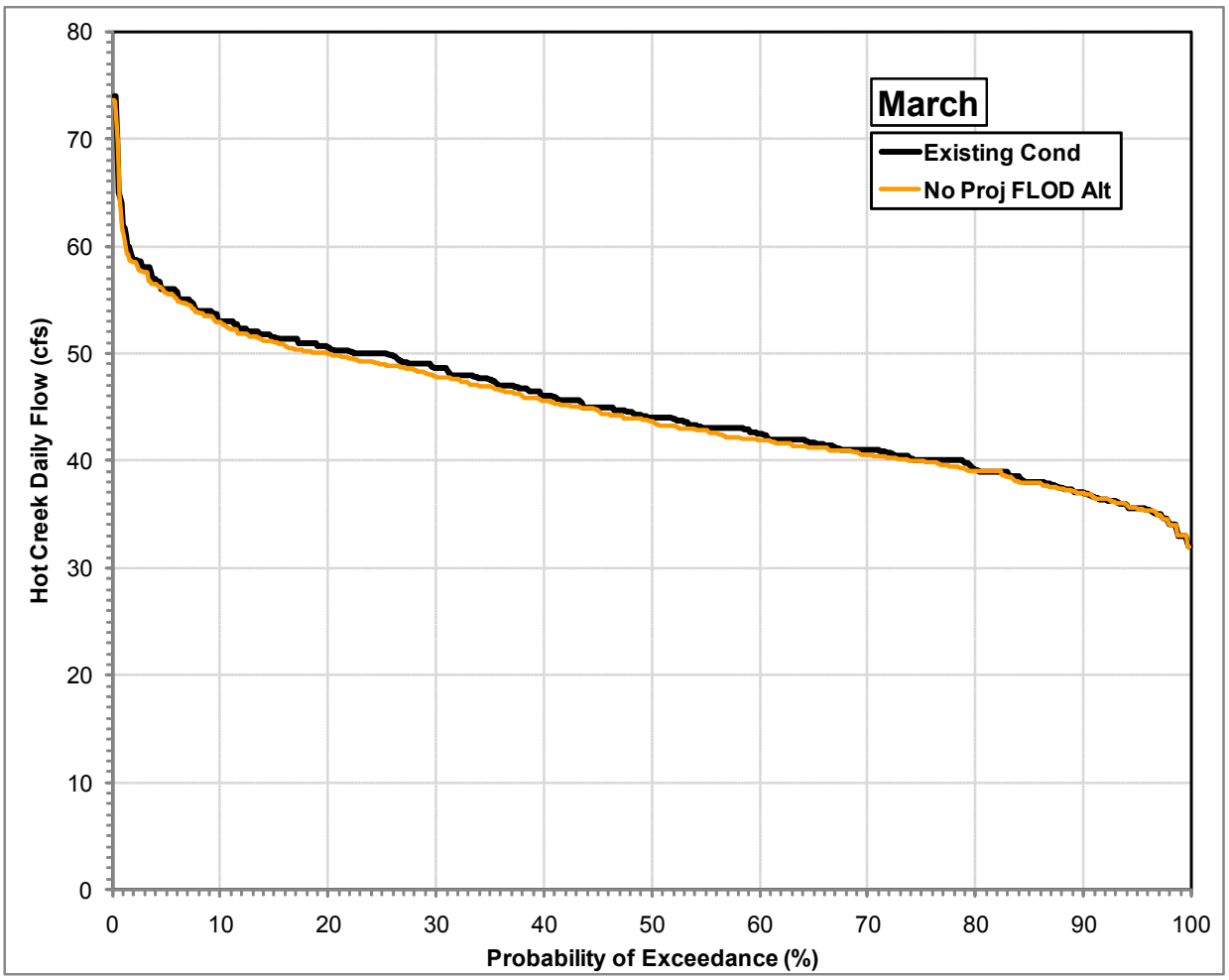

| Probability of Exceedance (%) | January Hot Creek Daily Flow (cfs) | |
|---|---|---|
| | No Proj FLOD Alt | Existing Cond |
| 5 | 63.9 | 64.0 |
| 10 | 52.6 | 53.3 |
| 20 | 50.3 | 51.0 |
| 25 | 46.3 | 46.7 |
| 50 | 40.7 | 41.0 |
| 75 | 37.5 | 37.8 |
| 80 | 35.5 | 37.0 |
| 90 | 33.1 | 34.0 |
| 95 | 31.5 | 32.6 |

**Cumulative Exceedance Probability Distribution of Daily Flows (cfs) at the USGS Hot Creek Flume Gage under the No Project Alternative (Future Level of Demand) and the Existing Condition during January for the 20-Year Evaluation Period**



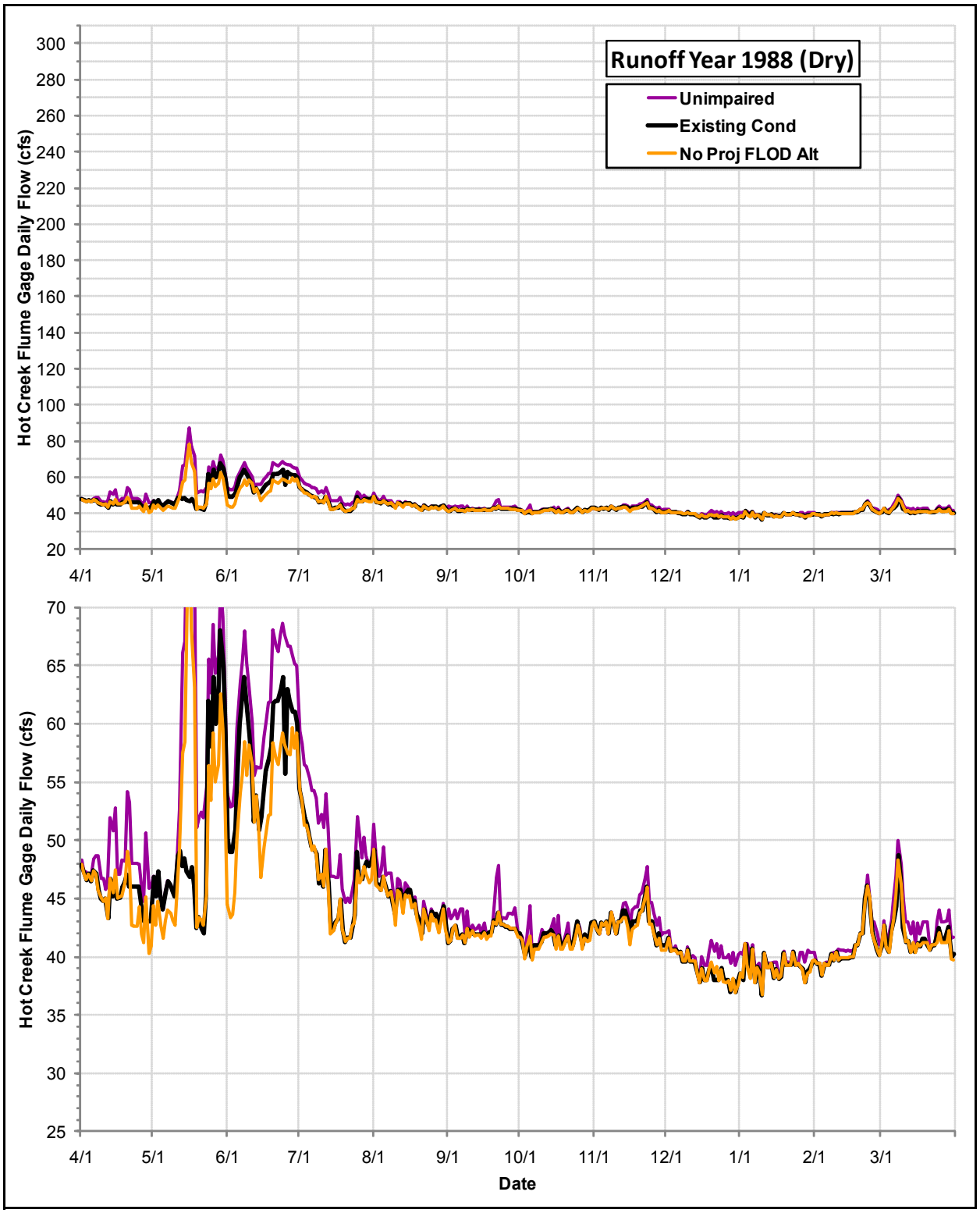

| Probability of Exceedance (%) | February Hot Creek Daily Flow (cfs) | |
|---|---|---|
| | No Proj FLOD Alt | Existing Cond |
| 5 | 57.5 | 58.0 |
| 10 | 53.1 | 53.3 |
| 20 | 49.7 | 50.0 |
| 25 | 47.1 | 47.7 |
| 50 | 41.0 | 41.5 |
| 75 | 37.5 | 37.8 |
| 80 | 36.4 | 36.9 |
| 90 | 34.5 | 35.0 |
| 95 | 33.0 | 33.1 |

**Cumulative Exceedance Probability Distribution of Daily Flows (cfs) at the USGS Hot Creek Flume Gage under the No Project Alternative (Future Level of Demand) and the Existing Condition during February for the 20-Year Evaluation Period**

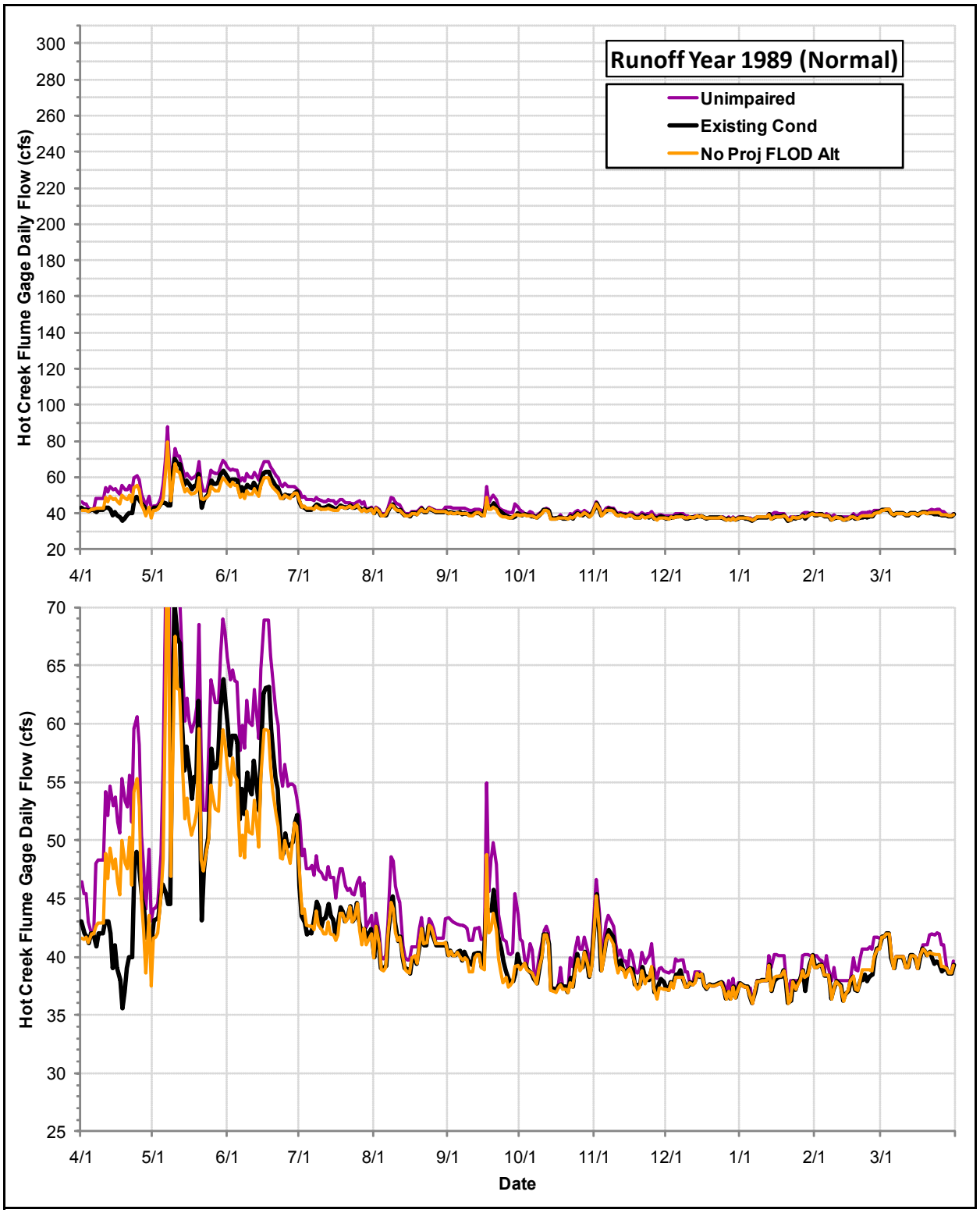



| Probability of Exceedance (%) | March Hot Creek Daily Flow (cfs) | |
|---|---|---|
| | No Proj FLOD Alt | Existing Cond |
| 5 | 55.6 | 56.0 |
| 10 | 52.9 | 53.0 |
| 20 | 49.9 | 50.6 |
| 25 | 49.0 | 50.0 |
| 50 | 43.6 | 44.0 |
| 75 | 40.0 | 40.0 |
| 80 | 39.0 | 39.1 |
| 90 | 37.0 | 37.0 |
| 95 | 35.5 | 35.5 |

**Cumulative Exceedance Probability Distribution of Daily Flows (cfs) at the USGS Hot Creek Flume Gage under the No Project Alternative (Future Level of Demand) and the Existing Condition during March for the 20-Year Evaluation Period**



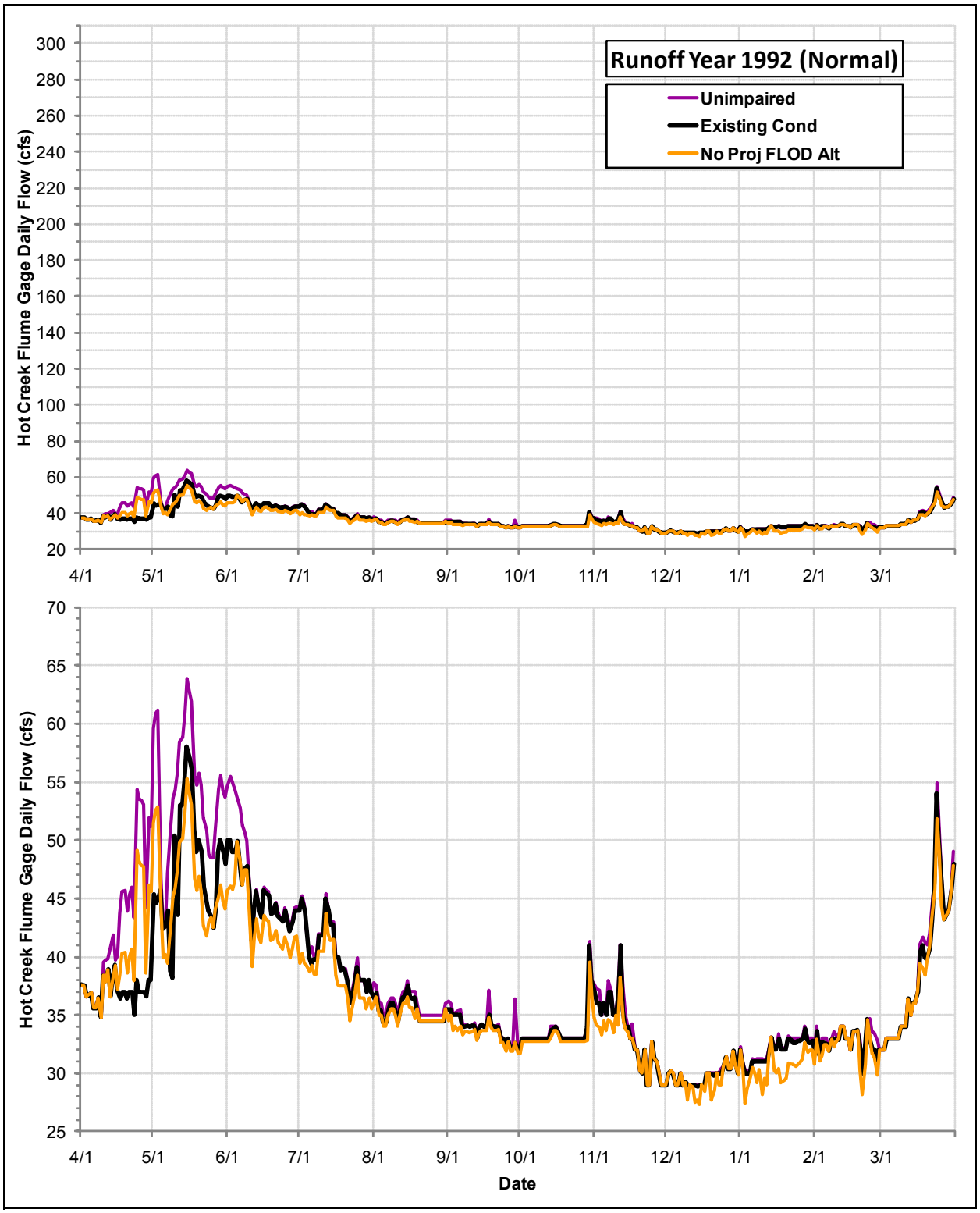

**Daily Flows (cfs) at the USGS Hot Creek Flume Gage under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 1988**



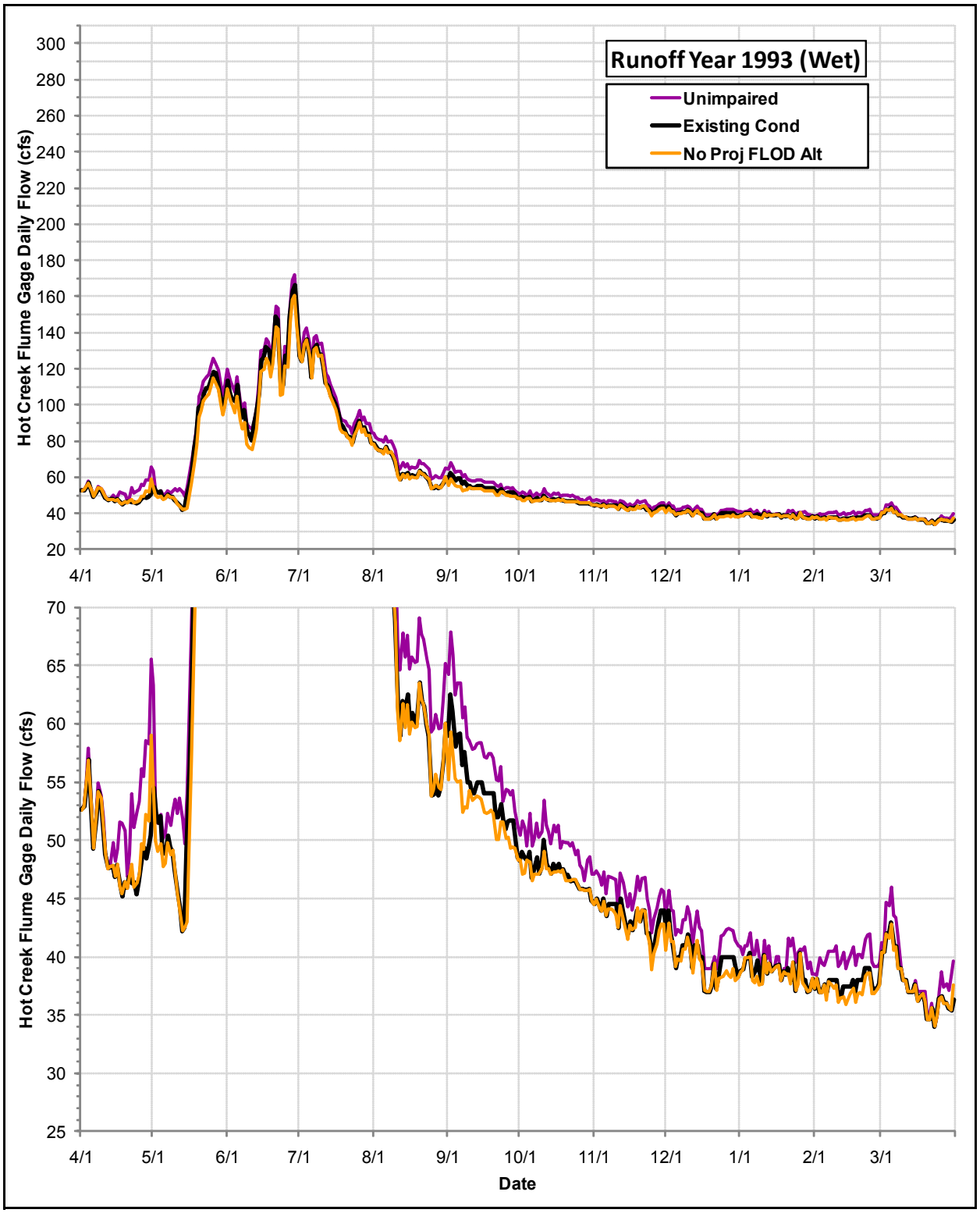

**Daily Flows (cfs) at the USGS Hot Creek Flume Gage under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 1989**


**Daily Flows (cfs) at the USGS Hot Creek Flume Gage under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 1990**

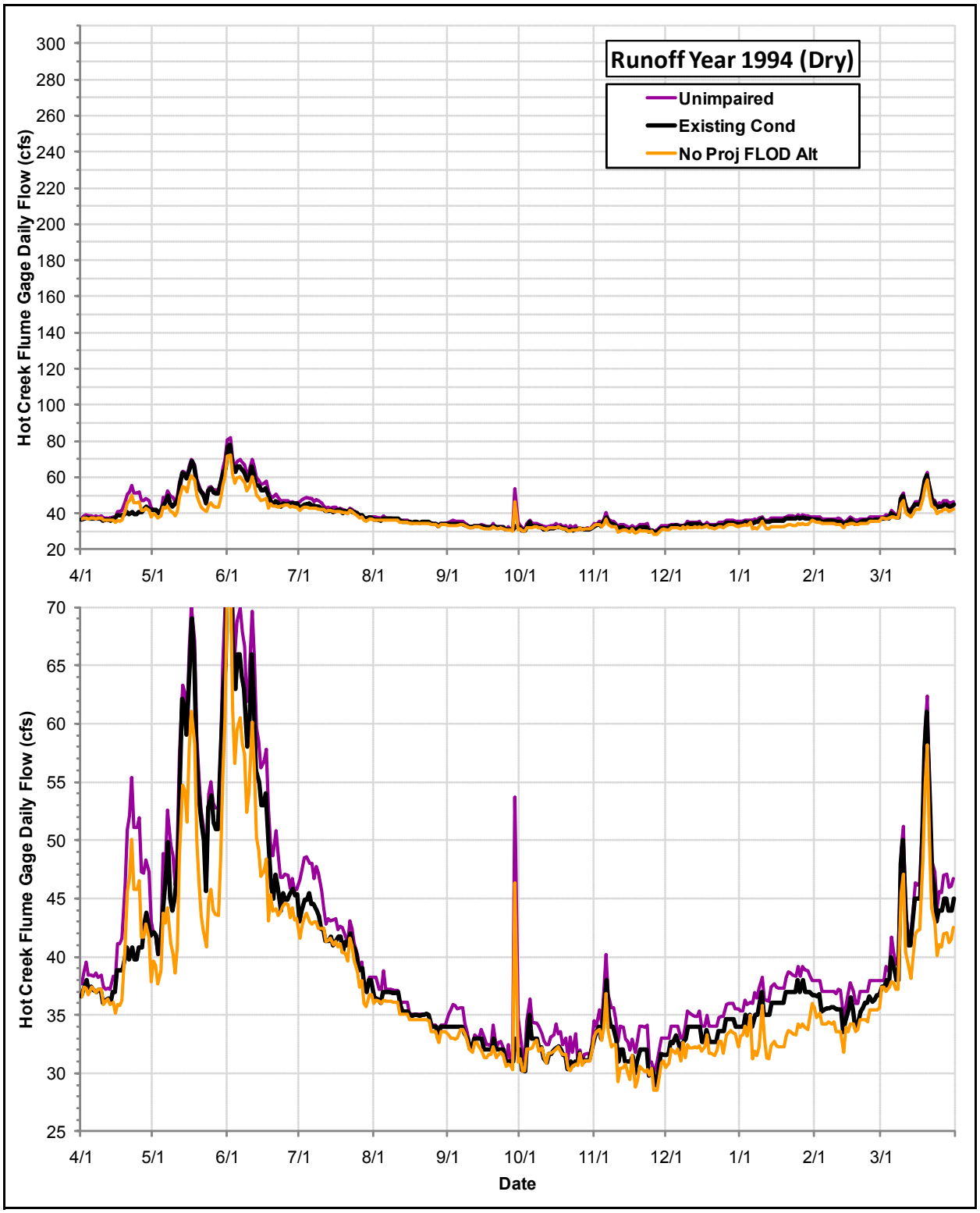

**Daily Flows (cfs) at the USGS Hot Creek Flume Gage under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 1991**



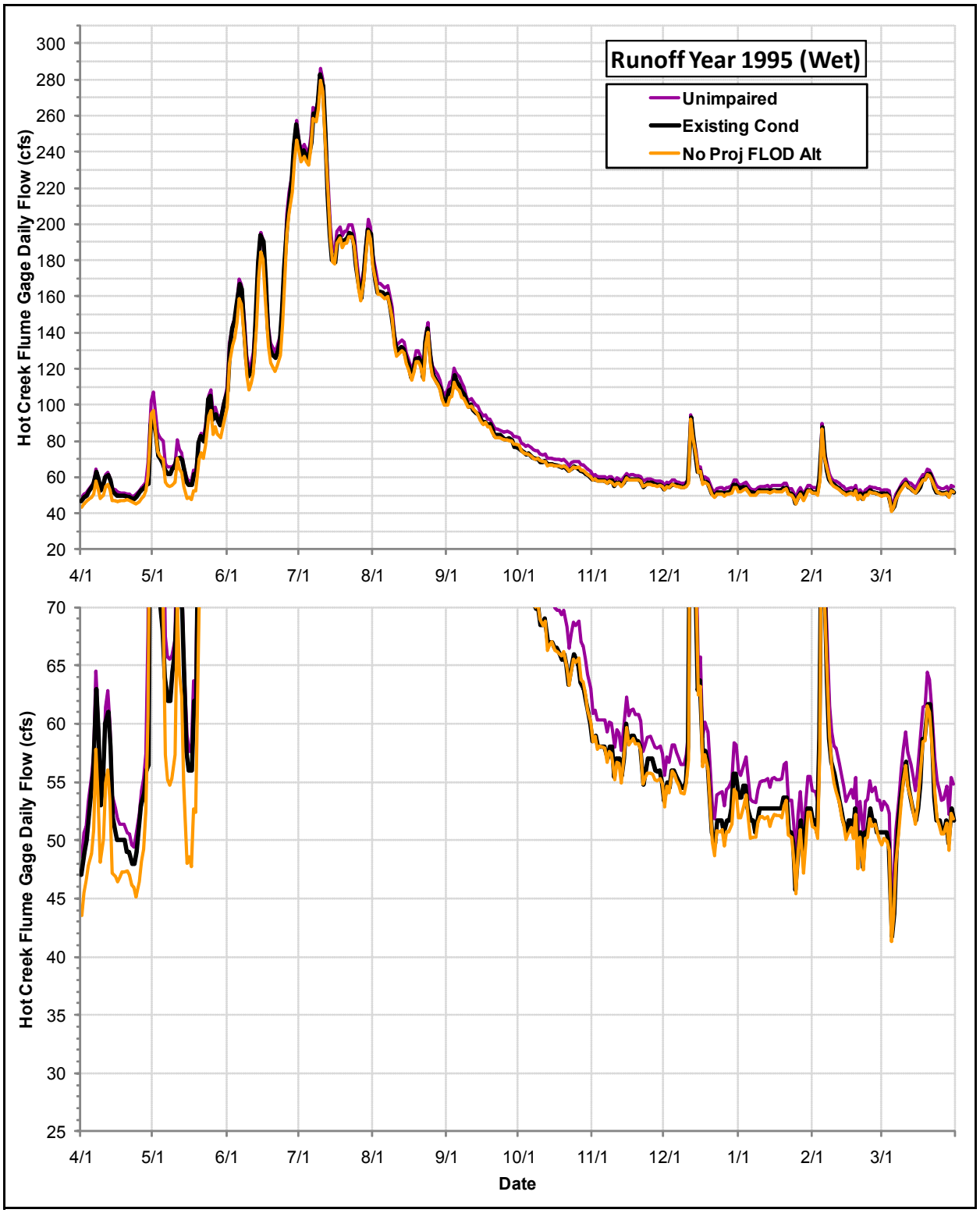

**Daily Flows (cfs) at the USGS Hot Creek Flume Gage under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 1992**



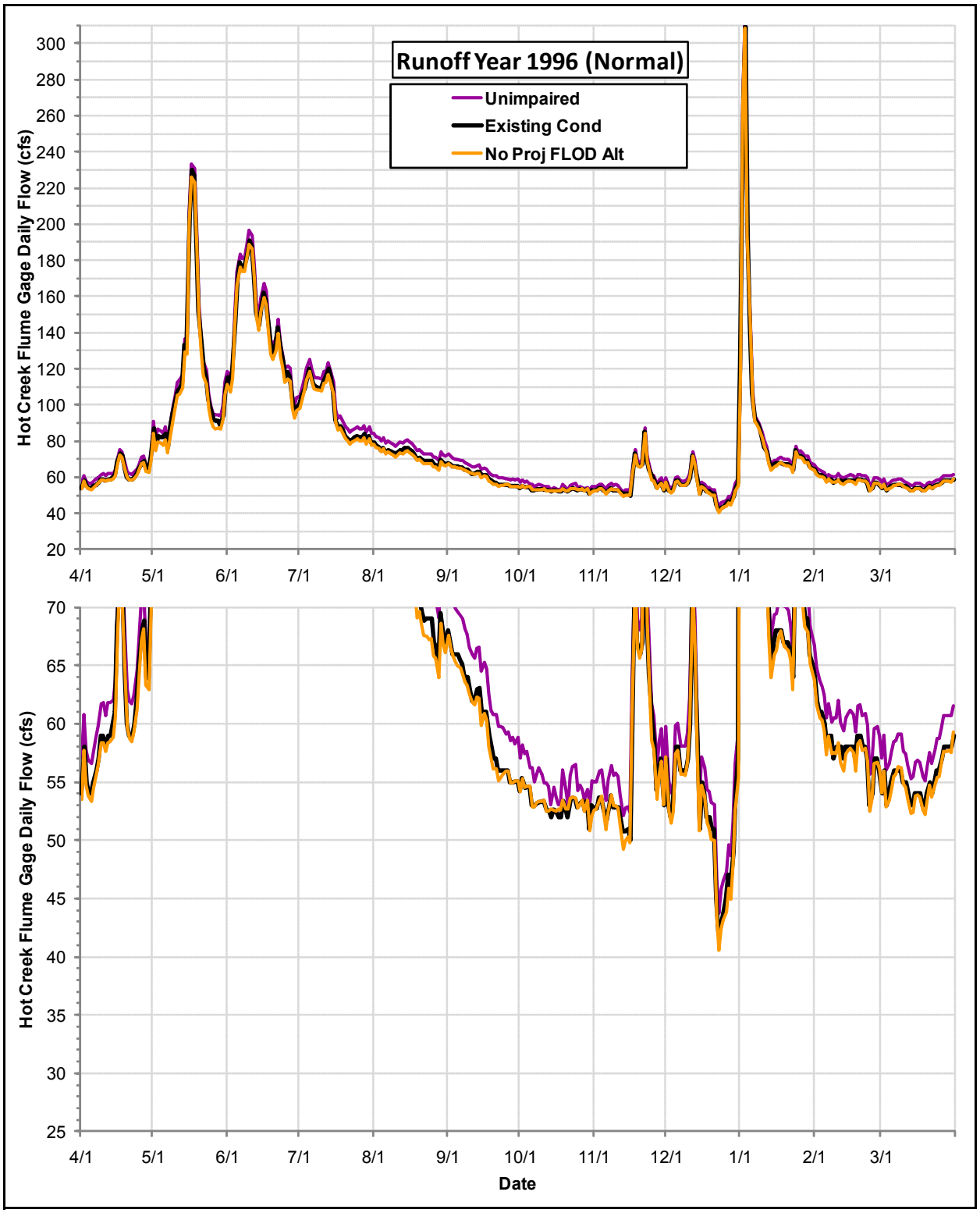

**Daily Flows (cfs) at the USGS Hot Creek Flume Gage under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 1993**



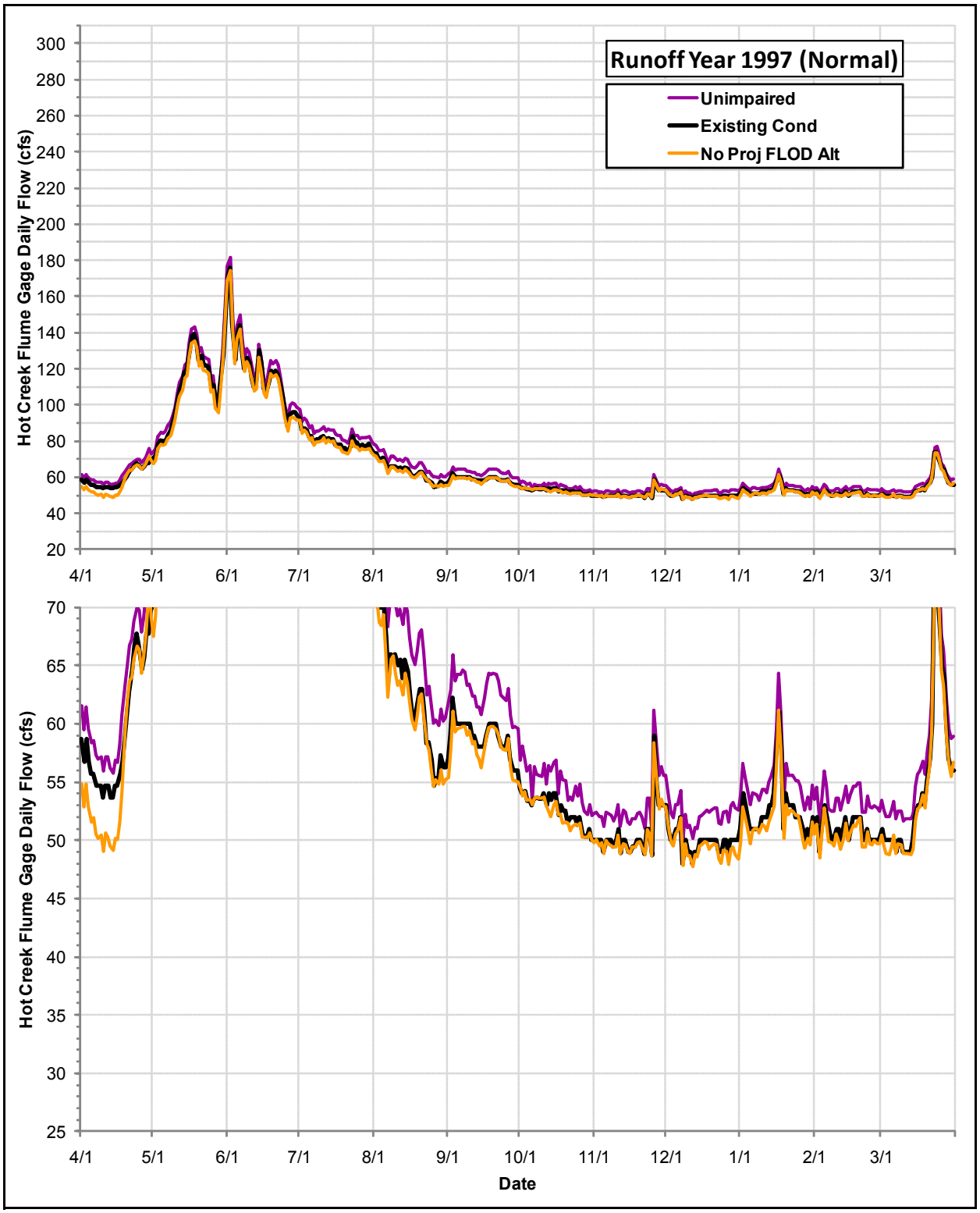

**Daily Flows (cfs) at the USGS Hot Creek Flume Gage under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 1994**



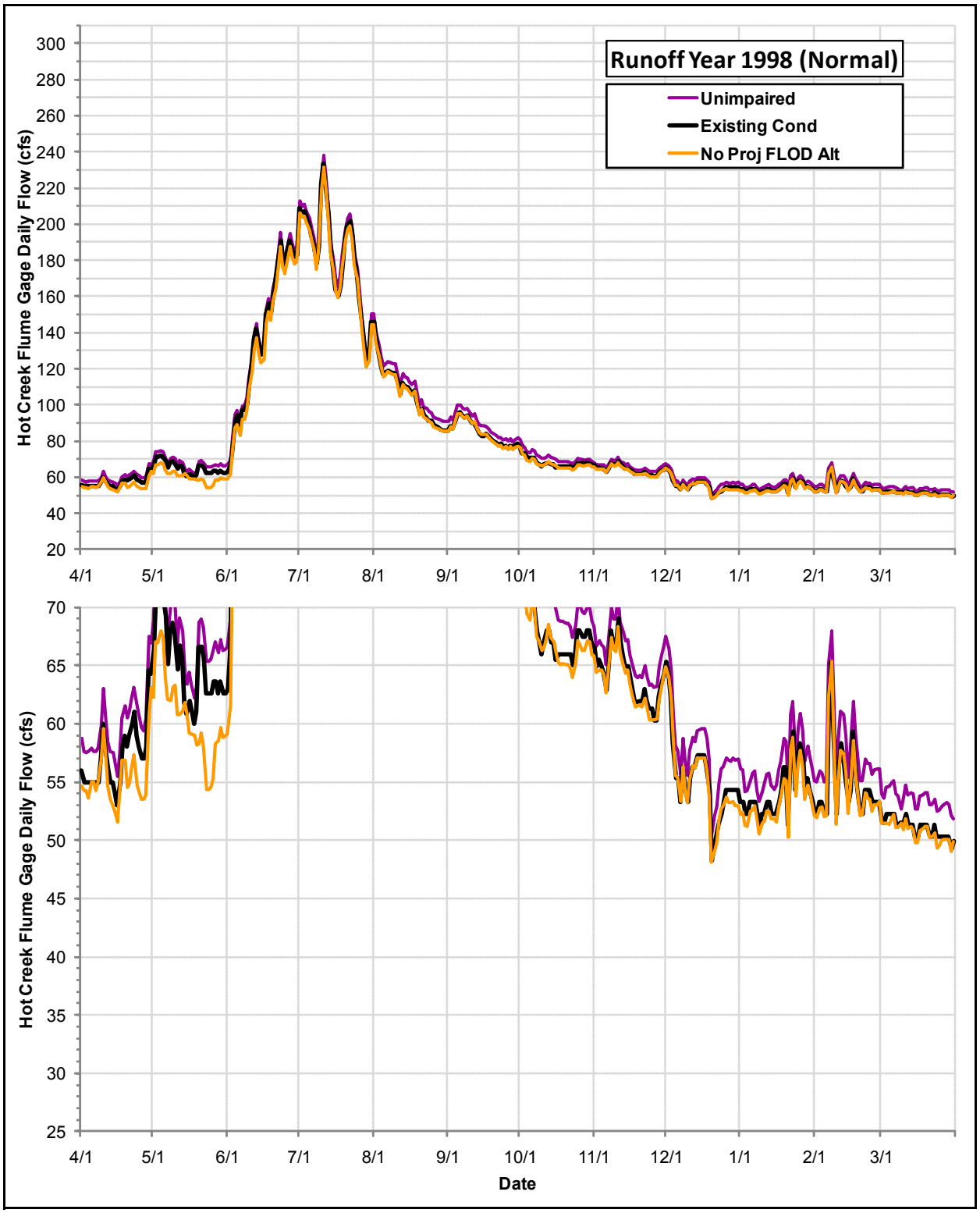

**Daily Flows (cfs) at the USGS Hot Creek Flume Gage under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 1995**



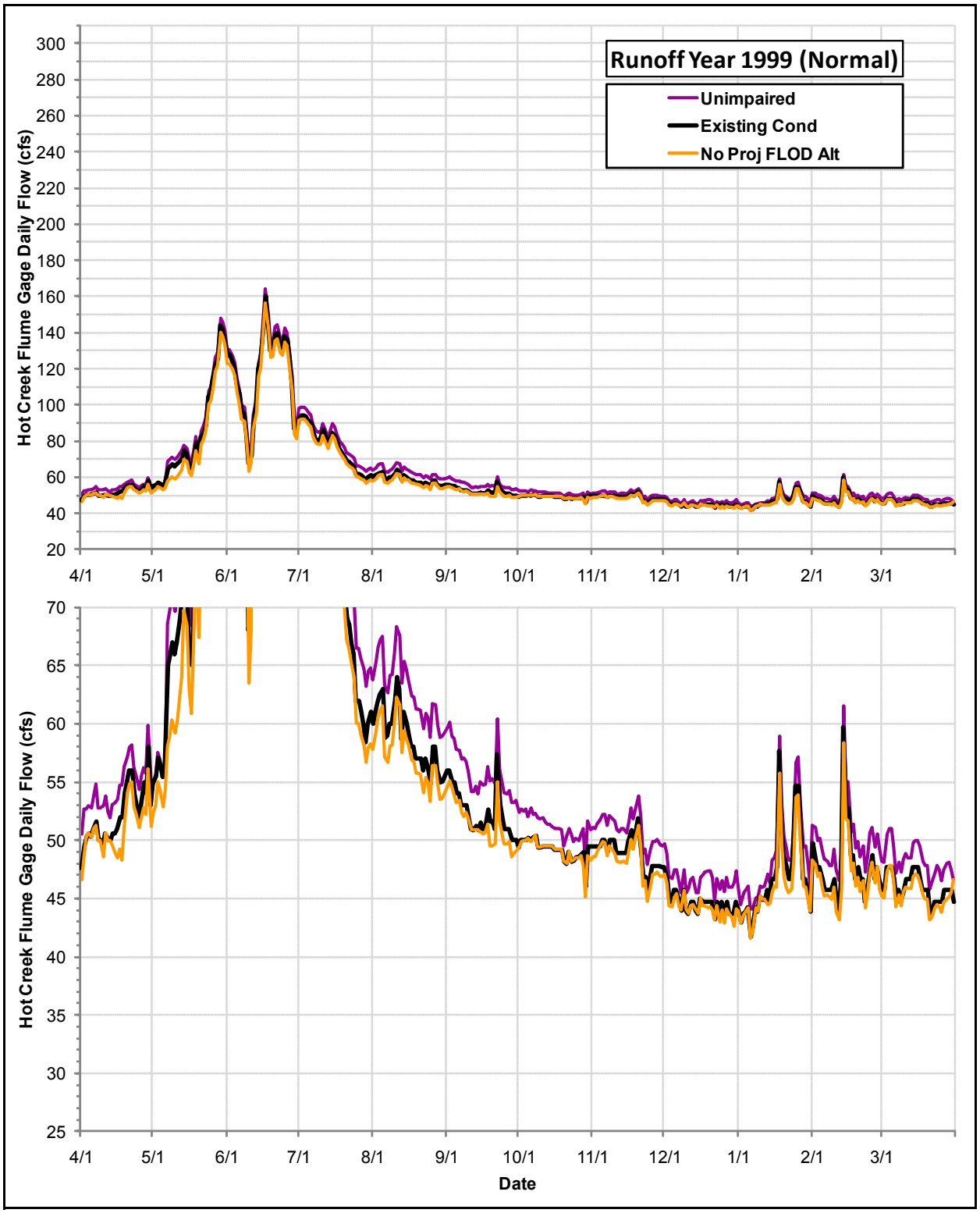

**Daily Flows (cfs) at the USGS Hot Creek Flume Gage under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 1996**



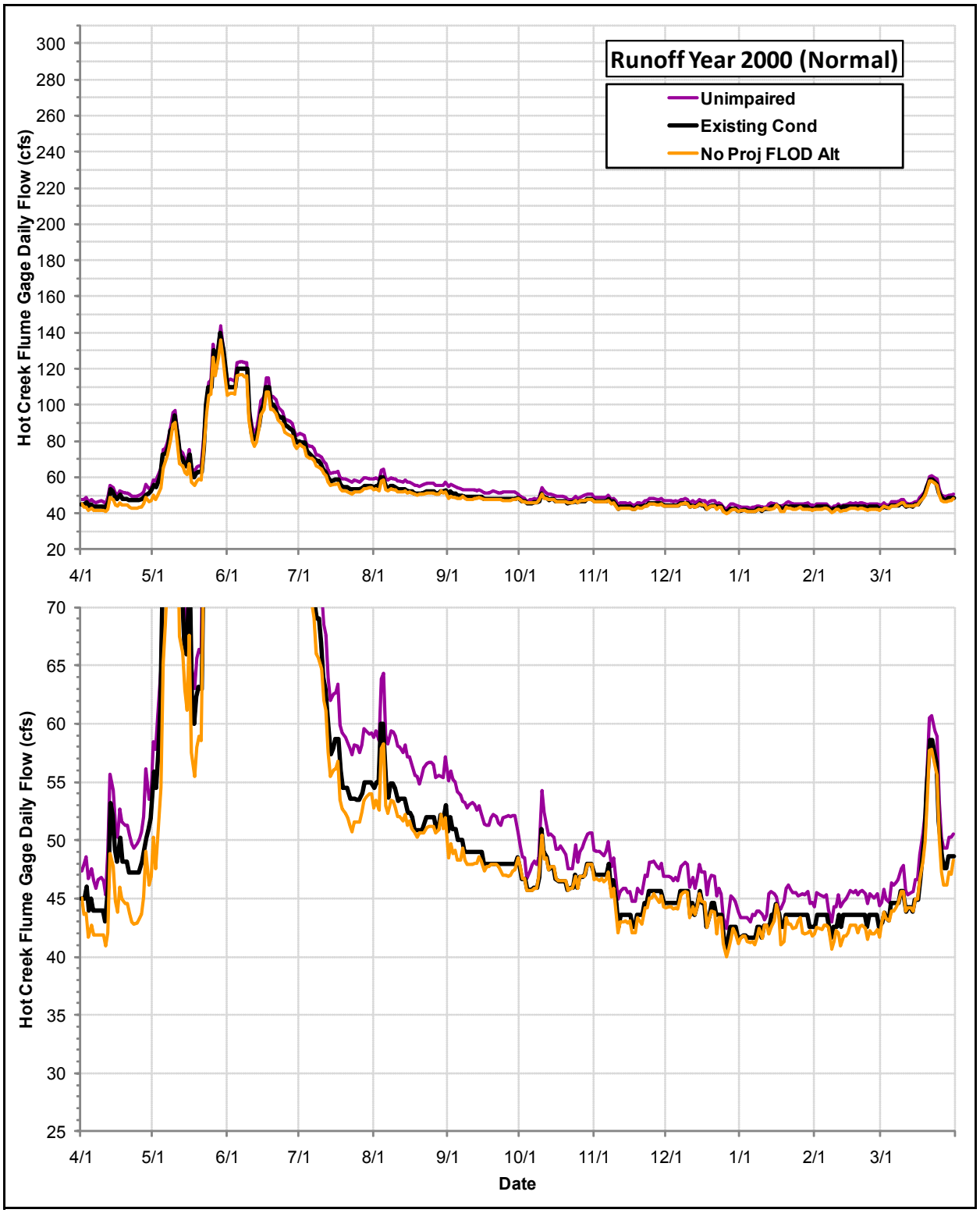

**Daily Flows (cfs) at the USGS Hot Creek Flume Gage under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 1997**



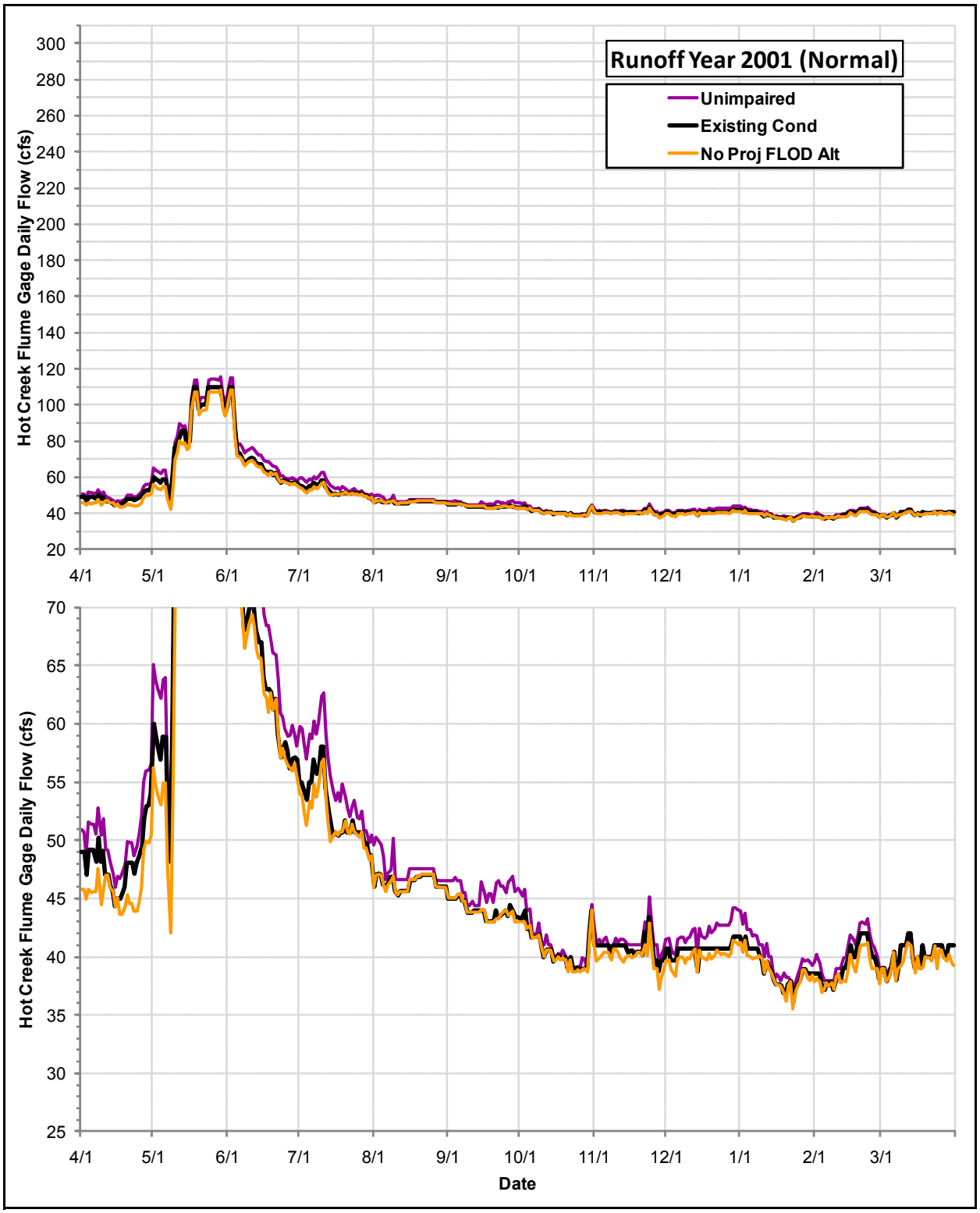

**Daily Flows (cfs) at the USGS Hot Creek Flume Gage under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 1998**




**Daily Flows (cfs) at the USGS Hot Creek Flume Gage under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 1999**

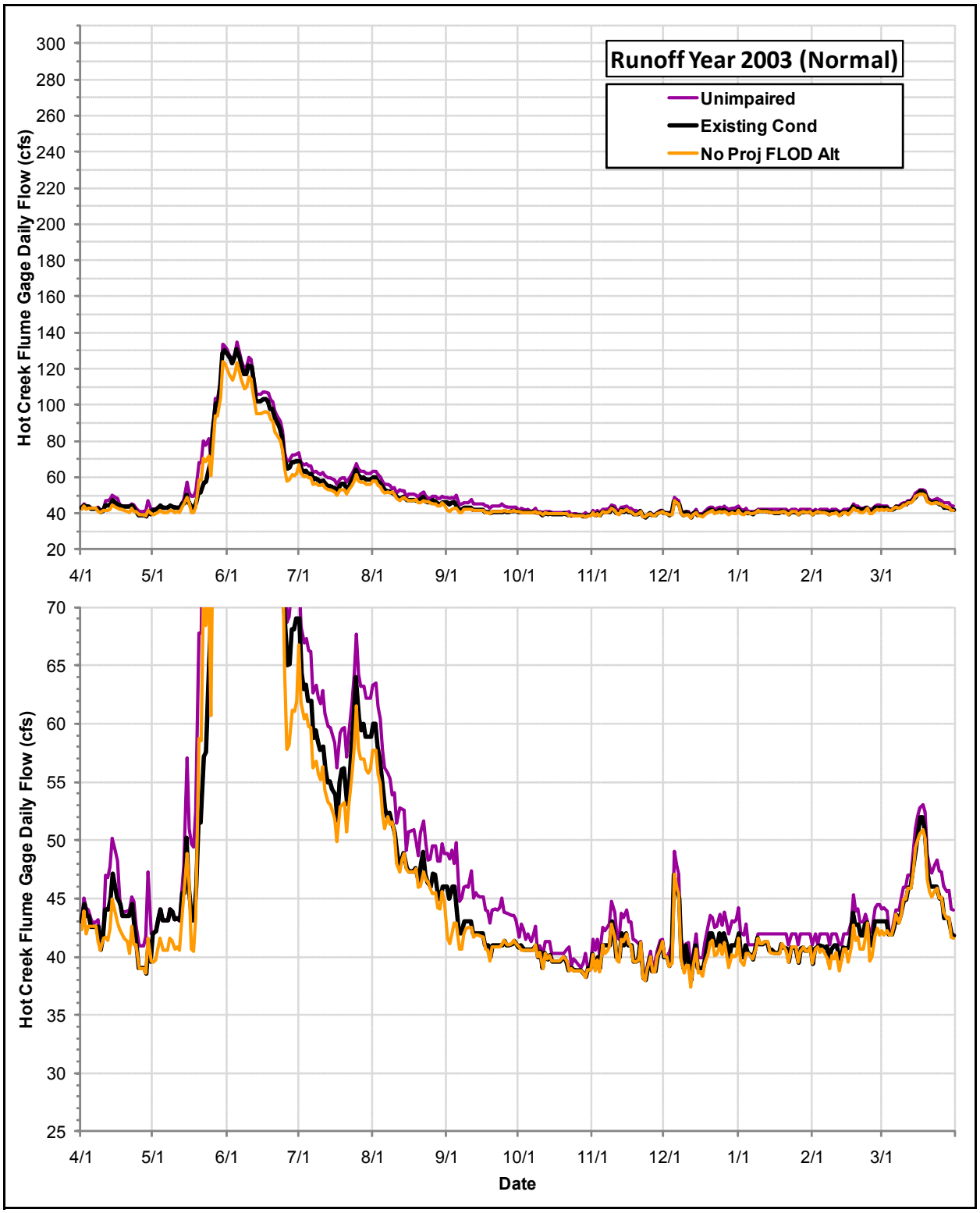



**Daily Flows (cfs) at the USGS Hot Creek Flume Gage under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 2000**

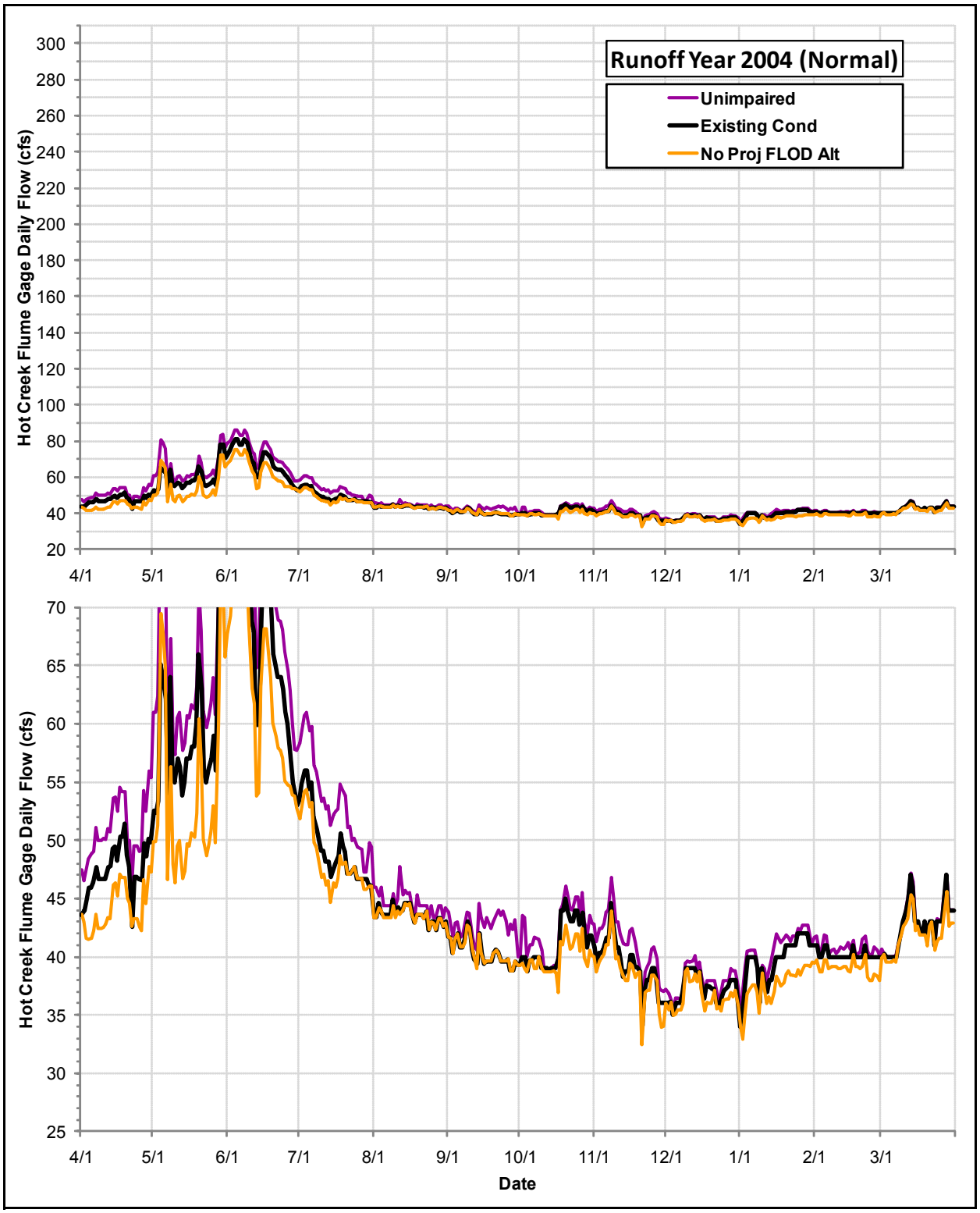



**Daily Flows (cfs) at the USGS Hot Creek Flume Gage under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 2001**

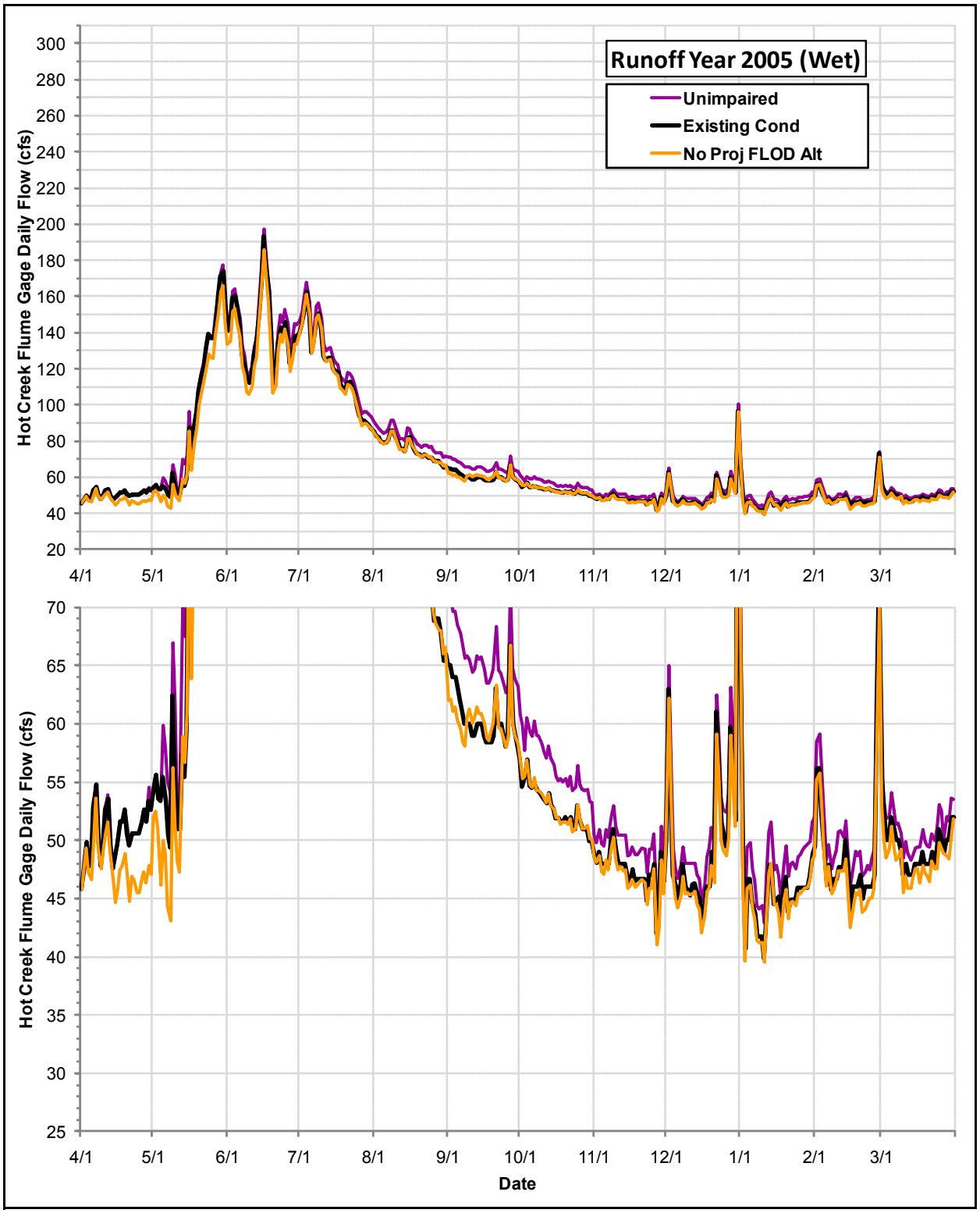

**Daily Flows (cfs) at the USGS Hot Creek Flume Gage under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 2002**



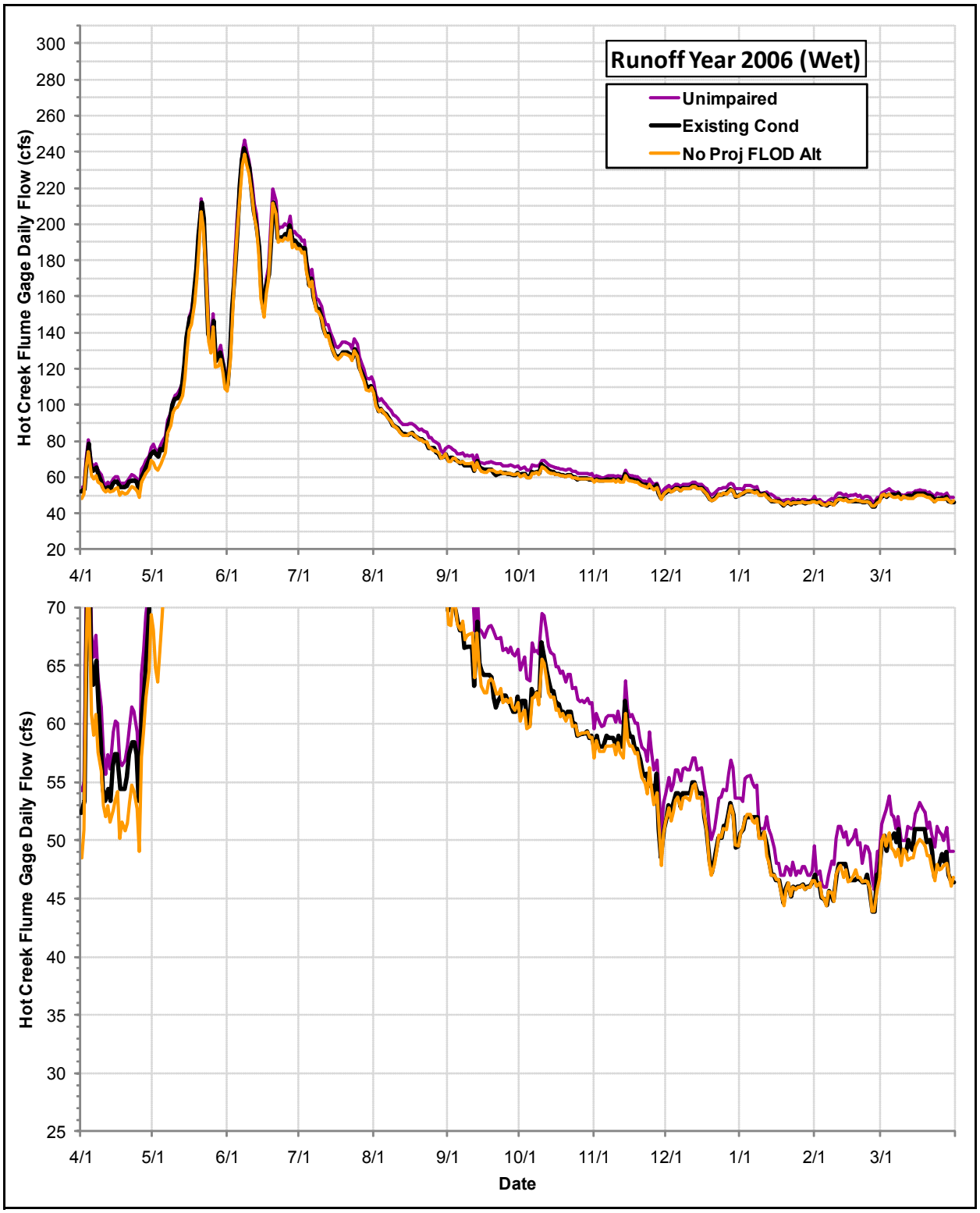

**Daily Flows (cfs) at the USGS Hot Creek Flume Gage under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 2003**




**Daily Flows (cfs) at the USGS Hot Creek Flume Gage under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 2004**




**Daily Flows (cfs) at the USGS Hot Creek Flume Gage under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 2005**




**Daily Flows (cfs) at the USGS Hot Creek Flume Gage under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 2006**


**Daily Flows (cfs) at the USGS Hot Creek Flume Gage under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions during Runoff Year 2007**

**Total Number of Channel Maintenance and Flushing Flow Events (Daily Flows ≥ $Q_{1.75}$) at the USGS Hot Creek Flume Gage by Runoff Year and Runoff Year Type under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions Over the 20-Year Evaluation Period**

| Runoff Year | Runoff Year Type | Number of Events (Consecutive days) with Hot Creek Daily Flow ≥ $Q_{1.75}$ ($Q_{1.75}$ = 129.4 cfs) | | |
|---|---|---|---|---|
| | | No Proj FLOD Alt | Existing Cond | Unimpaired |
| 1988 | D | 0 | 0 | 0 |
| 1989 | N | 0 | 0 | 0 |
| 1990 | D | 0 | 0 | 0 |
| 1991 | N | 0 | 0 | 0 |
| 1992 | N | 0 | 0 | 0 |
| 1993 | W | 4 | 5 | 4 |
| 1994 | D | 0 | 0 | 0 |
| 1995 | W | 5 | 5 | 4 |
| 1996 | N | 5 | 4 | 3 |
| 1997 | N | 3 | 4 | 5 |
| 1998 | N | 3 | 3 | 2 |
| 1999 | N | 4 | 2 | 2 |
| 2000 | N | 1 | 2 | 2 |
| 2001 | N | 0 | 0 | 0 |
| 2002 | N | 0 | 0 | 0 |
| 2003 | N | 0 | 2 | 2 |
| 2004 | N | 0 | 0 | 0 |
| 2005 | W | 5 | 5 | 3 |
| 2006 | W | 4 | 3 | 3 |
| 2007 | D | 0 | 0 | 0 |
| Total | | 34 | 35 | 30 |

**Total Number of Days with a Recurrence Interval of Daily Flows ≥ Q1.75 at the USGS Hot Creek Flume Gage by Runoff Year and Runoff Year Type under the No Project Alternative (Future Level of Demand), the Existing Condition and the Index of Unimpaired Conditions Over the 20-Year Evaluation Period**

| Runoff Year | Runoff Year Type | Number of Days with Hot Creek Daily Flow ≥ $Q_{1.75}$ ($Q_{1.75}$ = 129.4 cfs) | | |
|---|---|---|---|---|
| | | No Proj FLOD Alt | Existing Cond | Unimpaired |
| 1988 | D | 0 | 0 | 0 |
| 1989 | N | 0 | 0 | 0 |
| 1990 | D | 0 | 0 | 0 |
| 1991 | N | 0 | 0 | 0 |
| 1992 | N | 0 | 0 | 0 |
| 1993 | W | 10 | 12 | 22 |
| 1994 | D | 0 | 0 | 0 |
| 1995 | W | 63 | 68 | 74 |
| 1996 | N | 28 | 31 | 32 |
| 1997 | N | 9 | 12 | 16 |
| 1998 | N | 47 | 49 | 52 |
| 1999 | N | 10 | 14 | 17 |
| 2000 | N | 1 | 4 | 4 |
| 2001 | N | 0 | 0 | 0 |
| 2002 | N | 0 | 0 | 0 |
| 2003 | N | 0 | 2 | 5 |
| 2004 | N | 0 | 0 | 0 |
| 2005 | W | 33 | 38 | 47 |
| 2006 | W | 55 | 56 | 67 |
| 2007 | D | 0 | 0 | 0 |
| Total | | 256 | 286 | 336 |