

Appendix E. Passage and Spawning Day Results

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Summary of Scenarios and Policy Elements

| Scenario | Policy Element | | | |
|-------------|----------------|------------------|---------------------------------|------------|
| | Diversions | Diversion Season | MBF | MCD |
| Scenario D1 | Distributed | None | Feb Median ¹ | None |
| Scenario D3 | Lumped | None | Feb Median | None |
| Scenario A1 | Lumped | Dec 15-Mar 31 | Feb Median | None |
| Scenario A2 | Lumped | None | Regional Eqn in Policy §2.2.1.2 | None |
| Scenario A3 | Lumped | None | Feb Median | Feb Median |
| Scenario A4 | Lumped | Dec 15-Mar 31 | Feb Median | Feb Median |
| Scenario A5 | Lumped | None | Regional Eqn in Policy §2.2.1.2 | Feb Median |

¹ For Class III PODs, February median unimpaired flow MBF applies if maximum cumulative volume depletion is greater than 5%; otherwise, there is no MBF at Class III PODs.

1. Appendix E: Scenario D1 Passage and Spawning Day Tables, Graphs

Table E-1 Unimpaired and Impaired Passage Days in October, Scenario D1

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 14 | 23 | 43 | 4 | 7 | 7 | 0 | 0 | 8 |

| Maximum Cumulative Volume Depletion (%) | Impaired Passage Days | | | | | | | | |
|---|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 13 | 23 | 42 | 4 | 7 | 7 | 0 | 0 | 8 |
| 9% | 13 | 23 | 42 | 4 | 7 | 7 | 0 | 0 | 8 |
| 8% | 13 | 23 | 42 | 4 | 7 | 7 | 0 | 0 | 8 |
| 7% | 13 | 23 | 41 | 4 | 7 | 7 | 0 | 0 | 8 |
| 6% | 13 | 23 | 41 | 4 | 7 | 7 | 0 | 0 | 8 |
| 5% | 13 | 23 | 41 | 4 | 7 | 7 | 0 | 0 | 8 |
| 4% | 13 | 23 | 41 | 4 | 7 | 7 | 0 | 0 | 8 |
| 3% | 13 | 23 | 41 | 4 | 7 | 7 | 0 | 0 | 8 |
| 2% | 13 | 23 | 41 | 4 | 7 | 7 | 0 | 0 | 8 |
| 1% | 13 | 23 | 41 | 4 | 7 | 7 | 0 | 0 | 8 |
| 0% | 14 | 23 | 43 | 4 | 7 | 7 | 0 | 0 | 8 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Passage Days Lost | | | | | | | | |
|---|---|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 7% | - | 2% | - | - | - | - | - | - |
| 9% | 7% | - | 2% | - | - | - | - | - | - |
| 8% | 7% | - | 2% | - | - | - | - | - | - |
| 7% | 7% | - | 5% | - | - | - | - | - | - |
| 6% | 7% | - | 5% | - | - | - | - | - | - |
| 5% | 7% | - | 5% | - | - | - | - | - | - |
| 4% | 7% | - | 5% | - | - | - | - | - | - |
| 3% | 7% | - | 5% | - | - | - | - | - | - |
| 2% | 7% | - | 5% | - | - | - | - | - | - |
| 1% | 7% | - | 5% | - | - | - | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of passage days

Table E-2 Unimpaired and Impaired Spawning Days in October, Scenario D1

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 9 | 6 | 6 | 0 | 0 | 1 | 0 | 0 | 1 |

| Maximum Cumulative Volume Depletion (%) | Impaired Spawning Days | | | | | | | | |
|---|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 9 | 4 | 6 | 0 | 0 | 1 | 0 | 0 | 1 |
| 9% | 9 | 4 | 6 | 0 | 0 | 1 | 0 | 0 | 1 |
| 8% | 9 | 4 | 6 | 0 | 0 | 1 | 0 | 0 | 1 |
| 7% | 9 | 4 | 6 | 0 | 0 | 1 | 0 | 0 | 1 |
| 6% | 9 | 4 | 6 | 0 | 0 | 1 | 0 | 0 | 1 |
| 5% | 9 | 4 | 6 | 0 | 0 | 1 | 0 | 0 | 1 |
| 4% | 9 | 4 | 6 | 0 | 0 | 1 | 0 | 0 | 1 |
| 3% | 9 | 4 | 6 | 0 | 0 | 1 | 0 | 0 | 1 |
| 2% | 9 | 4 | 6 | 0 | 0 | 1 | 0 | 0 | 1 |
| 1% | 9 | 4 | 6 | 0 | 0 | 1 | 0 | 0 | 1 |
| 0% | 9 | 6 | 6 | 0 | 0 | 1 | 0 | 0 | 1 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Spawning Days Lost | | | | | | | | |
|---|--|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | - | 33% | - | - | - | - | - | - | - |
| 9% | - | 33% | - | - | - | - | - | - | - |
| 8% | - | 33% | - | - | - | - | - | - | - |
| 7% | - | 33% | - | - | - | - | - | - | - |
| 6% | - | 33% | - | - | - | - | - | - | - |
| 5% | - | 33% | - | - | - | - | - | - | - |
| 4% | - | 33% | - | - | - | - | - | - | - |
| 3% | - | 33% | - | - | - | - | - | - | - |
| 2% | - | 33% | - | - | - | - | - | - | - |
| 1% | - | 33% | - | - | - | - | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Notes:

'-' indicates no loss of spawning days

Spawning is not usual in October; results provided only for comparison.

Table E-3 Unimpaired and Impaired Passage Days in November, Scenario D1

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | 12 | 36 | 94 | 2 | 6 | 4 | 1 | 3 |

| Maximum Cumulative Volume Depletion (%) | Impaired Passage Days | | | | | | | | |
|---|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 12 | 34 | 93 | 2 | 6 | 4 | 1 | 3 | 7 |
| 9% | 12 | 34 | 93 | 2 | 6 | 4 | 1 | 3 | 7 |
| 8% | 12 | 34 | 92 | 2 | 6 | 4 | 1 | 3 | 7 |
| 7% | 12 | 34 | 92 | 2 | 6 | 4 | 1 | 3 | 7 |
| 6% | 12 | 33 | 92 | 2 | 6 | 4 | 1 | 3 | 7 |
| 5% | 12 | 33 | 92 | 2 | 6 | 4 | 1 | 3 | 7 |
| 4% | 12 | 33 | 92 | 2 | 6 | 4 | 1 | 3 | 7 |
| 3% | 12 | 33 | 92 | 2 | 6 | 4 | 1 | 3 | 7 |
| 2% | 12 | 33 | 92 | 2 | 6 | 4 | 1 | 3 | 7 |
| 1% | 12 | 34 | 93 | 2 | 6 | 4 | 1 | 3 | 7 |
| 0% | 12 | 36 | 94 | 2 | 6 | 4 | 1 | 3 | 7 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Passage Days Lost | | | | | | | | |
|---|---|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | - | 6% | 1% | - | - | - | - | - | - |
| 9% | - | 6% | 1% | - | - | - | - | - | - |
| 8% | - | 6% | 2% | - | - | - | - | - | - |
| 7% | - | 6% | 2% | - | - | - | - | - | - |
| 6% | - | 8% | 2% | - | - | - | - | - | - |
| 5% | - | 8% | 2% | - | - | - | - | - | - |
| 4% | - | 8% | 2% | - | - | - | - | - | - |
| 3% | - | 8% | 2% | - | - | - | - | - | - |
| 2% | - | 8% | 2% | - | - | - | - | - | - |
| 1% | - | 6% | 1% | - | - | - | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of passage days

Table E-4 Unimpaired and Impaired Spawning Days in November, Scenario D1

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 8 | 3 | 6 | 1 | 1 | 1 | 1 | 1 | 1 |

| Maximum Cumulative Volume Depletion (%) | Impaired Spawning Days | | | | | | | | |
|---|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 7 | 2 | 5 | 1 | 1 | 1 | 1 | 1 | 1 |
| 9% | 7 | 2 | 5 | 1 | 1 | 1 | 1 | 1 | 1 |
| 8% | 7 | 2 | 5 | 1 | 1 | 1 | 1 | 1 | 1 |
| 7% | 7 | 2 | 5 | 1 | 1 | 1 | 1 | 1 | 1 |
| 6% | 7 | 2 | 5 | 1 | 1 | 1 | 1 | 1 | 1 |
| 5% | 7 | 2 | 5 | 1 | 1 | 1 | 1 | 1 | 1 |
| 4% | 7 | 2 | 5 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3% | 7 | 2 | 5 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2% | 7 | 2 | 5 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1% | 7 | 2 | 5 | 1 | 1 | 1 | 1 | 1 | 1 |
| 0% | 8 | 3 | 6 | 1 | 1 | 1 | 1 | 1 | 1 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Spawning Days Lost | | | | | | | | |
|---|--|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 13% | 33% | 17% | - | - | - | - | - | - |
| 9% | 13% | 33% | 17% | - | - | - | - | - | - |
| 8% | 13% | 33% | 17% | - | - | - | - | - | - |
| 7% | 13% | 33% | 17% | - | - | - | - | - | - |
| 6% | 13% | 33% | 17% | - | - | - | - | - | - |
| 5% | 13% | 33% | 17% | - | - | - | - | - | - |
| 4% | 13% | 33% | 17% | - | - | - | - | - | - |
| 3% | 13% | 33% | 17% | - | - | - | - | - | - |
| 2% | 13% | 33% | 17% | - | - | - | - | - | - |
| 1% | 13% | 33% | 17% | - | - | - | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of spawning days

Table E-5 Unimpaired and Impaired Passage Days in December, Scenario D1

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | 112 | 162 | 217 | 46 | 75 | 66 | 33 | 99 |

| Maximum Cumulative Volume Depletion (%) | Impaired Passage Days | | | | | | | | |
|---|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 112 | 162 | 215 | 45 | 73 | 66 | 31 | 99 | 82 |
| 9% | 112 | 161 | 215 | 45 | 73 | 66 | 31 | 99 | 82 |
| 8% | 112 | 161 | 215 | 45 | 73 | 66 | 31 | 99 | 82 |
| 7% | 112 | 161 | 214 | 45 | 73 | 66 | 31 | 99 | 82 |
| 6% | 112 | 161 | 214 | 45 | 73 | 66 | 31 | 99 | 82 |
| 5% | 112 | 160 | 214 | 45 | 73 | 66 | 31 | 99 | 83 |
| 4% | 112 | 160 | 214 | 45 | 73 | 66 | 31 | 99 | 83 |
| 3% | 112 | 160 | 214 | 45 | 73 | 66 | 32 | 99 | 83 |
| 2% | 112 | 160 | 214 | 45 | 73 | 66 | 32 | 99 | 83 |
| 1% | 112 | 161 | 216 | 45 | 73 | 66 | 33 | 99 | 84 |
| 0% | 112 | 162 | 217 | 46 | 75 | 66 | 33 | 99 | 84 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Passage Days Lost | | | | | | | | |
|---|---|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | - | - | 1% | 2% | 3% | - | 6% | - | 2% |
| 9% | - | 1% | 1% | 2% | 3% | - | 6% | - | 2% |
| 8% | - | 1% | 1% | 2% | 3% | - | 6% | - | 2% |
| 7% | - | 1% | 1% | 2% | 3% | - | 6% | - | 2% |
| 6% | - | 1% | 1% | 2% | 3% | - | 6% | - | 2% |
| 5% | - | 1% | 1% | 2% | 3% | - | 6% | - | 1% |
| 4% | - | 1% | 1% | 2% | 3% | - | 6% | - | 1% |
| 3% | - | 1% | 1% | 2% | 3% | - | 3% | - | 1% |
| 2% | - | 1% | 1% | 2% | 3% | - | 3% | - | 1% |
| 1% | - | 1% | 0% | 2% | 3% | - | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of passage days

Table E-6 Unimpaired and Impaired Spawning Days in December, Scenario D1

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 101 | 85 | 93 | 34 | 10 | 35 | 30 | 75 | 69 |

| Maximum Cumulative Volume Depletion (%) | Impaired Spawning Days | | | | | | | | |
|---|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 100 | 83 | 93 | 33 | 9 | 35 | 30 | 75 | 64 |
| 9% | 100 | 83 | 92 | 33 | 9 | 35 | 30 | 75 | 65 |
| 8% | 100 | 83 | 93 | 33 | 9 | 35 | 30 | 75 | 65 |
| 7% | 100 | 83 | 93 | 33 | 9 | 35 | 30 | 75 | 65 |
| 6% | 99 | 83 | 93 | 33 | 9 | 35 | 30 | 75 | 65 |
| 5% | 99 | 83 | 93 | 34 | 10 | 35 | 30 | 75 | 65 |
| 4% | 99 | 83 | 93 | 34 | 10 | 35 | 30 | 75 | 65 |
| 3% | 99 | 83 | 93 | 34 | 10 | 35 | 30 | 75 | 67 |
| 2% | 99 | 84 | 93 | 34 | 10 | 35 | 30 | 75 | 68 |
| 1% | 100 | 84 | 93 | 34 | 10 | 35 | 30 | 75 | 69 |
| 0% | 101 | 85 | 93 | 34 | 10 | 35 | 30 | 75 | 69 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Spawning Days Lost | | | | | | | | |
|---|--|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 1% | 2% | - | 3% | 10% | - | - | - | 7% |
| 9% | 1% | 2% | 1% | 3% | 10% | - | - | - | 6% |
| 8% | 1% | 2% | - | 3% | 10% | - | - | - | 6% |
| 7% | 1% | 2% | - | 3% | 10% | - | - | - | 6% |
| 6% | 2% | 2% | - | 3% | 10% | - | - | - | 6% |
| 5% | 2% | 2% | - | - | - | - | - | - | 6% |
| 4% | 2% | 2% | - | - | - | - | - | - | 6% |
| 3% | 2% | 2% | - | - | - | - | - | - | 3% |
| 2% | 2% | 1% | - | - | - | - | - | - | 1% |
| 1% | 1% | 1% | - | - | - | - | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of spawning days

Table E-7 Unimpaired and Impaired Passage Days in January, Scenario D1

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 104 | 187 | 241 | 53 | 105 | 86 | 25 | 165 | 102 |

| Maximum Cumulative Volume Depletion (%) | Impaired Passage Days | | | | | | | | |
|---|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 100 | 184 | 241 | 52 | 104 | 84 | 25 | 165 | 99 |
| 9% | 101 | 184 | 241 | 52 | 104 | 84 | 25 | 165 | 99 |
| 8% | 102 | 184 | 241 | 52 | 104 | 84 | 25 | 165 | 99 |
| 7% | 102 | 184 | 241 | 52 | 104 | 85 | 25 | 165 | 100 |
| 6% | 101 | 184 | 241 | 52 | 104 | 84 | 25 | 165 | 101 |
| 5% | 104 | 184 | 241 | 53 | 104 | 86 | 25 | 165 | 101 |
| 4% | 104 | 184 | 241 | 53 | 104 | 86 | 25 | 165 | 101 |
| 3% | 104 | 184 | 241 | 53 | 104 | 86 | 25 | 165 | 101 |
| 2% | 104 | 184 | 241 | 53 | 105 | 86 | 25 | 165 | 102 |
| 1% | 104 | 186 | 241 | 53 | 105 | 86 | 25 | 165 | 102 |
| 0% | 104 | 187 | 241 | 53 | 105 | 86 | 25 | 165 | 102 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Passage Days Lost | | | | | | | | |
|---|---|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 4% | 2% | - | 2% | 1% | 2% | - | - | 3% |
| 9% | 3% | 2% | - | 2% | 1% | 2% | - | - | 3% |
| 8% | 2% | 2% | - | 2% | 1% | 2% | - | - | 3% |
| 7% | 2% | 2% | - | 2% | 1% | 1% | - | - | 2% |
| 6% | 3% | 2% | - | 2% | 1% | 2% | - | - | 1% |
| 5% | - | 2% | - | - | 1% | - | - | - | 1% |
| 4% | - | 2% | - | - | 1% | - | - | - | 1% |
| 3% | - | 2% | - | - | 1% | - | - | - | 1% |
| 2% | - | 2% | - | - | - | - | - | - | - |
| 1% | - | 1% | - | - | - | - | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of passage days

Table E-8 Unimpaired and Impaired Spawning Days in January, Scenario D1

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 87 | 68 | 73 | 29 | 6 | 30 | 22 | 136 | 74 |

| Maximum Cumulative Volume Depletion (%) | Impaired Spawning Days | | | | | | | | |
|---|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 85 | 68 | 70 | 27 | 6 | 29 | 21 | 134 | 71 |
| 9% | 85 | 68 | 70 | 27 | 6 | 29 | 21 | 134 | 73 |
| 8% | 85 | 68 | 70 | 28 | 6 | 29 | 21 | 134 | 73 |
| 7% | 85 | 68 | 70 | 28 | 6 | 29 | 21 | 135 | 73 |
| 6% | 85 | 68 | 71 | 28 | 6 | 29 | 21 | 136 | 73 |
| 5% | 85 | 68 | 72 | 28 | 6 | 29 | 22 | 136 | 73 |
| 4% | 85 | 68 | 72 | 29 | 6 | 29 | 22 | 136 | 74 |
| 3% | 85 | 68 | 72 | 29 | 6 | 29 | 22 | 136 | 74 |
| 2% | 85 | 68 | 73 | 29 | 6 | 29 | 22 | 136 | 74 |
| 1% | 87 | 68 | 73 | 29 | 6 | 29 | 22 | 136 | 74 |
| 0% | 87 | 68 | 73 | 29 | 6 | 30 | 22 | 136 | 74 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Spawning Days Lost | | | | | | | | |
|---|--|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 2% | - | 4% | 7% | - | 3% | 5% | 1% | 4% |
| 9% | 2% | - | 4% | 7% | - | 3% | 5% | 1% | 1% |
| 8% | 2% | - | 4% | 3% | - | 3% | 5% | 1% | 1% |
| 7% | 2% | - | 4% | 3% | - | 3% | 5% | 1% | 1% |
| 6% | 2% | - | 3% | 3% | - | 3% | 5% | - | 1% |
| 5% | 2% | - | 1% | 3% | - | 3% | - | - | 1% |
| 4% | 2% | - | 1% | - | - | 3% | - | - | - |
| 3% | 2% | - | 1% | - | - | 3% | - | - | - |
| 2% | 2% | - | - | - | - | 3% | - | - | - |
| 1% | - | - | - | - | - | 3% | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of spawning days

Table E-9 Unimpaired and Impaired Passage Days in February, Scenario D1

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 105 | 176 | 262 | 43 | 112 | 82 | 31 | 178 | 119 |

| Maximum Cumulative Volume Depletion (%) | Impaired Passage Days | | | | | | | | |
|---|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 104 | 172 | 262 | 42 | 110 | 82 | 30 | 178 | 118 |
| 9% | 104 | 172 | 262 | 42 | 109 | 82 | 30 | 178 | 118 |
| 8% | 104 | 172 | 262 | 42 | 109 | 82 | 31 | 178 | 118 |
| 7% | 104 | 173 | 262 | 42 | 109 | 82 | 31 | 178 | 118 |
| 6% | 104 | 172 | 262 | 42 | 109 | 82 | 31 | 178 | 118 |
| 5% | 104 | 173 | 262 | 42 | 109 | 82 | 31 | 178 | 119 |
| 4% | 105 | 173 | 262 | 42 | 110 | 82 | 31 | 178 | 119 |
| 3% | 105 | 175 | 262 | 43 | 110 | 82 | 31 | 178 | 119 |
| 2% | 105 | 175 | 262 | 43 | 112 | 82 | 31 | 178 | 119 |
| 1% | 105 | 176 | 262 | 43 | 112 | 82 | 31 | 178 | 119 |
| 0% | 105 | 176 | 262 | 43 | 112 | 82 | 31 | 178 | 119 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Passage Days Lost | | | | | | | | |
|---|---|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 1% | 2% | - | 2% | 2% | - | 3% | - | 1% |
| 9% | 1% | 2% | - | 2% | 3% | - | 3% | - | 1% |
| 8% | 1% | 2% | - | 2% | 3% | - | - | - | 1% |
| 7% | 1% | 2% | - | 2% | 3% | - | - | - | 1% |
| 6% | 1% | 2% | - | 2% | 3% | - | - | - | 1% |
| 5% | 1% | 2% | - | 2% | 3% | - | - | - | - |
| 4% | - | 2% | - | 2% | 2% | - | - | - | - |
| 3% | - | 1% | - | - | 2% | - | - | - | - |
| 2% | - | 1% | - | - | - | - | - | - | - |
| 1% | - | - | - | - | - | - | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of passage days

Table E-10 Unimpaired and Impaired Spawning Days in February, Scenario D1

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 93 | 71 | 80 | 17 | 5 | 24 | 25 | 138 | 79 |

| Maximum Cumulative Volume Depletion (%) | Impaired Spawning Days | | | | | | | | |
|---|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 90 | 69 | 80 | 17 | 5 | 23 | 25 | 138 | 78 |
| 9% | 91 | 69 | 80 | 17 | 5 | 23 | 25 | 138 | 78 |
| 8% | 91 | 69 | 80 | 17 | 5 | 23 | 25 | 138 | 78 |
| 7% | 91 | 69 | 80 | 17 | 5 | 24 | 25 | 138 | 78 |
| 6% | 91 | 69 | 80 | 17 | 5 | 24 | 25 | 138 | 79 |
| 5% | 91 | 69 | 80 | 17 | 5 | 24 | 25 | 138 | 79 |
| 4% | 91 | 69 | 80 | 17 | 5 | 24 | 25 | 138 | 79 |
| 3% | 91 | 69 | 80 | 17 | 5 | 24 | 25 | 138 | 79 |
| 2% | 92 | 70 | 80 | 17 | 5 | 24 | 25 | 138 | 79 |
| 1% | 93 | 71 | 80 | 17 | 5 | 24 | 25 | 138 | 79 |
| 0% | 93 | 71 | 80 | 17 | 5 | 24 | 25 | 138 | 79 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Spawning Days Lost | | | | | | | | |
|---|--|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 3% | 3% | - | - | - | 4% | - | - | 1% |
| 9% | 2% | 3% | - | - | - | 4% | - | - | 1% |
| 8% | 2% | 3% | - | - | - | 4% | - | - | 1% |
| 7% | 2% | 3% | - | - | - | - | - | - | 1% |
| 6% | 2% | 3% | - | - | - | - | - | - | - |
| 5% | 2% | 3% | - | - | - | - | - | - | - |
| 4% | 2% | 3% | - | - | - | - | - | - | - |
| 3% | 2% | 3% | - | - | - | - | - | - | - |
| 2% | 1% | 1% | - | - | - | - | - | - | - |
| 1% | - | - | - | - | - | - | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of spawning days

Table E-11 Unimpaired and Impaired Passage Days in March, Scenario D1

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 120 | 200 | 283 | 52 | 118 | 97 | 36 | 167 | 115 |

| Maximum Cumulative Volume Depletion (%) | Impaired Passage Days | | | | | | | | |
|---|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 118 | 198 | 283 | 51 | 117 | 96 | 36 | 167 | 115 |
| 9% | 117 | 198 | 283 | 51 | 116 | 97 | 36 | 167 | 115 |
| 8% | 117 | 198 | 283 | 52 | 118 | 97 | 36 | 167 | 115 |
| 7% | 118 | 198 | 283 | 52 | 118 | 97 | 36 | 167 | 115 |
| 6% | 118 | 198 | 283 | 52 | 118 | 97 | 36 | 167 | 115 |
| 5% | 119 | 198 | 283 | 52 | 118 | 97 | 36 | 167 | 115 |
| 4% | 119 | 199 | 283 | 52 | 118 | 97 | 36 | 167 | 115 |
| 3% | 120 | 200 | 283 | 52 | 118 | 97 | 36 | 167 | 115 |
| 2% | 120 | 200 | 283 | 52 | 118 | 97 | 36 | 167 | 115 |
| 1% | 120 | 200 | 283 | 52 | 118 | 97 | 36 | 167 | 115 |
| 0% | 120 | 200 | 283 | 52 | 118 | 97 | 36 | 167 | 115 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Passage Days Lost | | | | | | | | |
|---|---|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 2% | 1% | - | 2% | 1% | 1% | - | - | - |
| 9% | 3% | 1% | - | 2% | 2% | - | - | - | - |
| 8% | 3% | 1% | - | - | - | - | - | - | - |
| 7% | 2% | 1% | - | - | - | - | - | - | - |
| 6% | 2% | 1% | - | - | - | - | - | - | - |
| 5% | 1% | 1% | - | - | - | - | - | - | - |
| 4% | 1% | 1% | - | - | - | - | - | - | - |
| 3% | - | - | - | - | - | - | - | - | - |
| 2% | - | - | - | - | - | - | - | - | - |
| 1% | - | - | - | - | - | - | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of passage days

Table E-12 Unimpaired and Impaired Spawning Days in March, Scenario D1

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 102 | 75 | 82 | 24 | 4 | 29 | 29 | 140 | 81 |

| Maximum Cumulative Volume Depletion (%) | Impaired Spawning Days | | | | | | | | |
|---|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 102 | 73 | 81 | 24 | 4 | 29 | 29 | 140 | 79 |
| 9% | 102 | 73 | 81 | 24 | 4 | 29 | 29 | 140 | 79 |
| 8% | 102 | 73 | 81 | 24 | 4 | 29 | 29 | 140 | 79 |
| 7% | 102 | 73 | 81 | 24 | 4 | 29 | 29 | 140 | 80 |
| 6% | 102 | 74 | 81 | 24 | 4 | 29 | 29 | 140 | 80 |
| 5% | 102 | 74 | 82 | 24 | 4 | 29 | 29 | 140 | 80 |
| 4% | 102 | 74 | 82 | 24 | 4 | 29 | 29 | 140 | 81 |
| 3% | 102 | 74 | 82 | 24 | 4 | 29 | 29 | 140 | 81 |
| 2% | 102 | 75 | 82 | 24 | 4 | 29 | 29 | 140 | 81 |
| 1% | 102 | 75 | 82 | 24 | 4 | 29 | 29 | 140 | 81 |
| 0% | 102 | 75 | 82 | 24 | 4 | 29 | 29 | 140 | 81 |

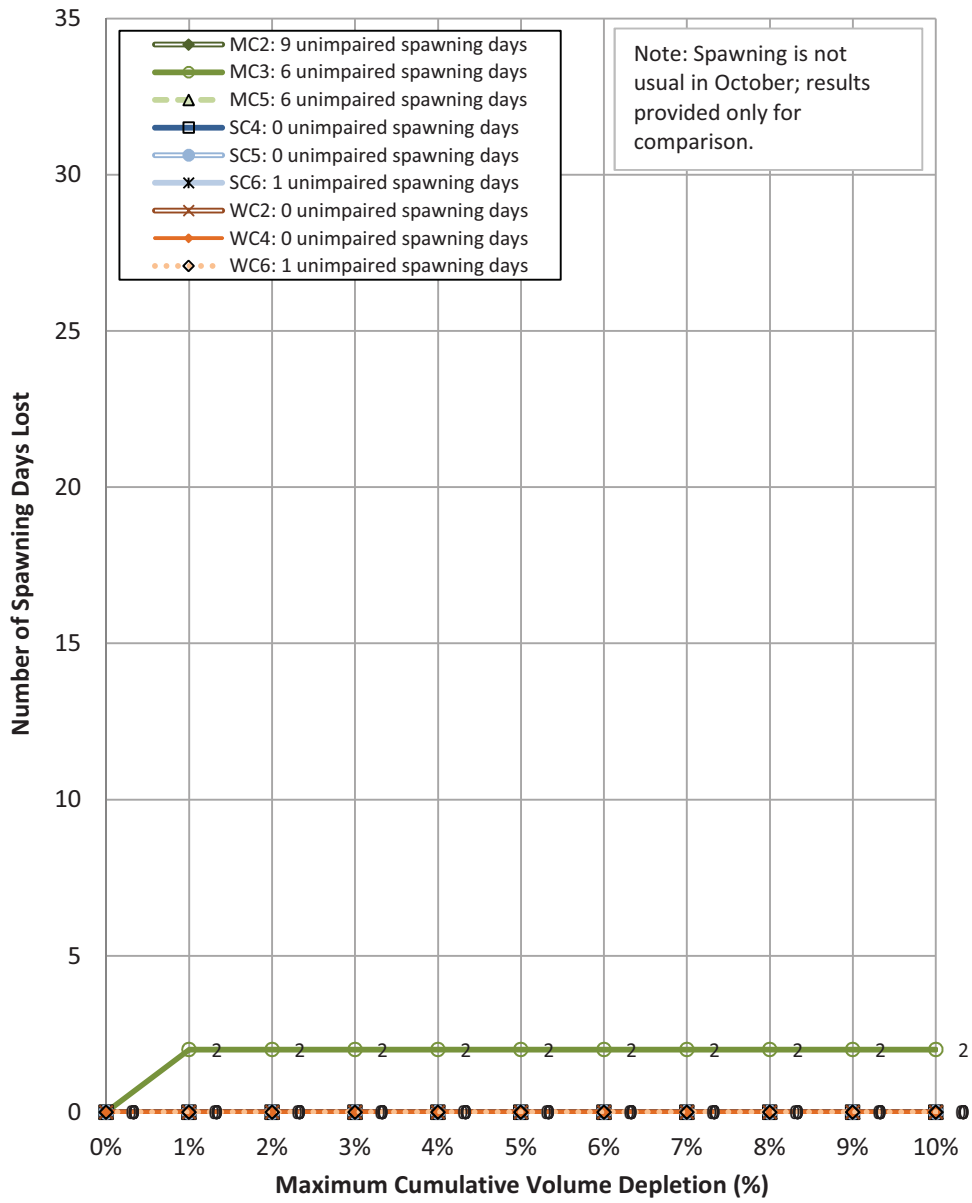
| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Spawning Days Lost | | | | | | | | |
|---|--|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | - | 3% | 1% | - | - | - | - | - | 2% |
| 9% | - | 3% | 1% | - | - | - | - | - | 2% |
| 8% | - | 3% | 1% | - | - | - | - | - | 2% |
| 7% | - | 3% | 1% | - | - | - | - | - | 1% |
| 6% | - | 1% | 1% | - | - | - | - | - | 1% |
| 5% | - | 1% | - | - | - | - | - | - | 1% |
| 4% | - | 1% | - | - | - | - | - | - | - |
| 3% | - | 1% | - | - | - | - | - | - | - |
| 2% | - | - | - | - | - | - | - | - | - |
| 1% | - | - | - | - | - | - | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of spawning days

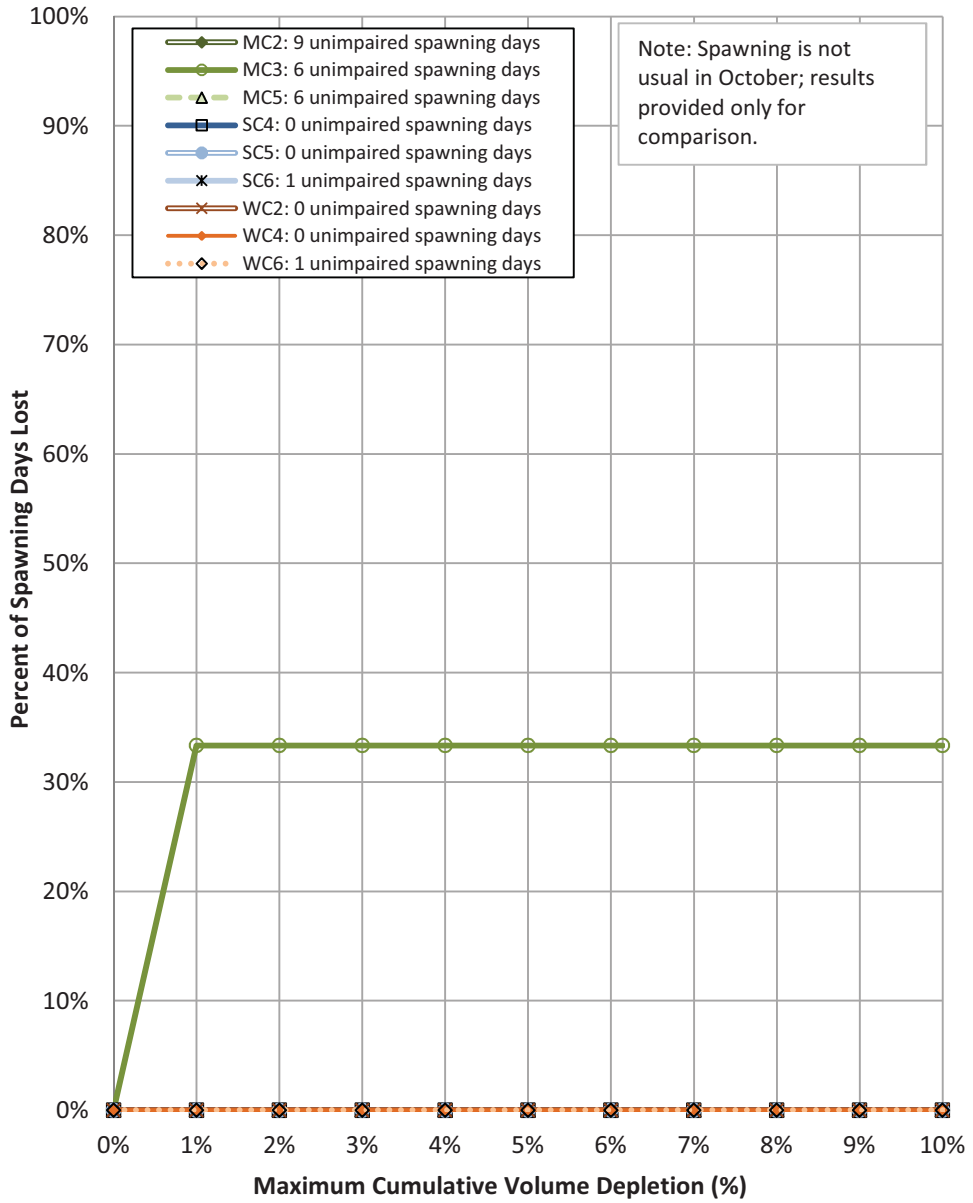
Number of Unimpaired Spawning Days Lost

Scenario D1, October



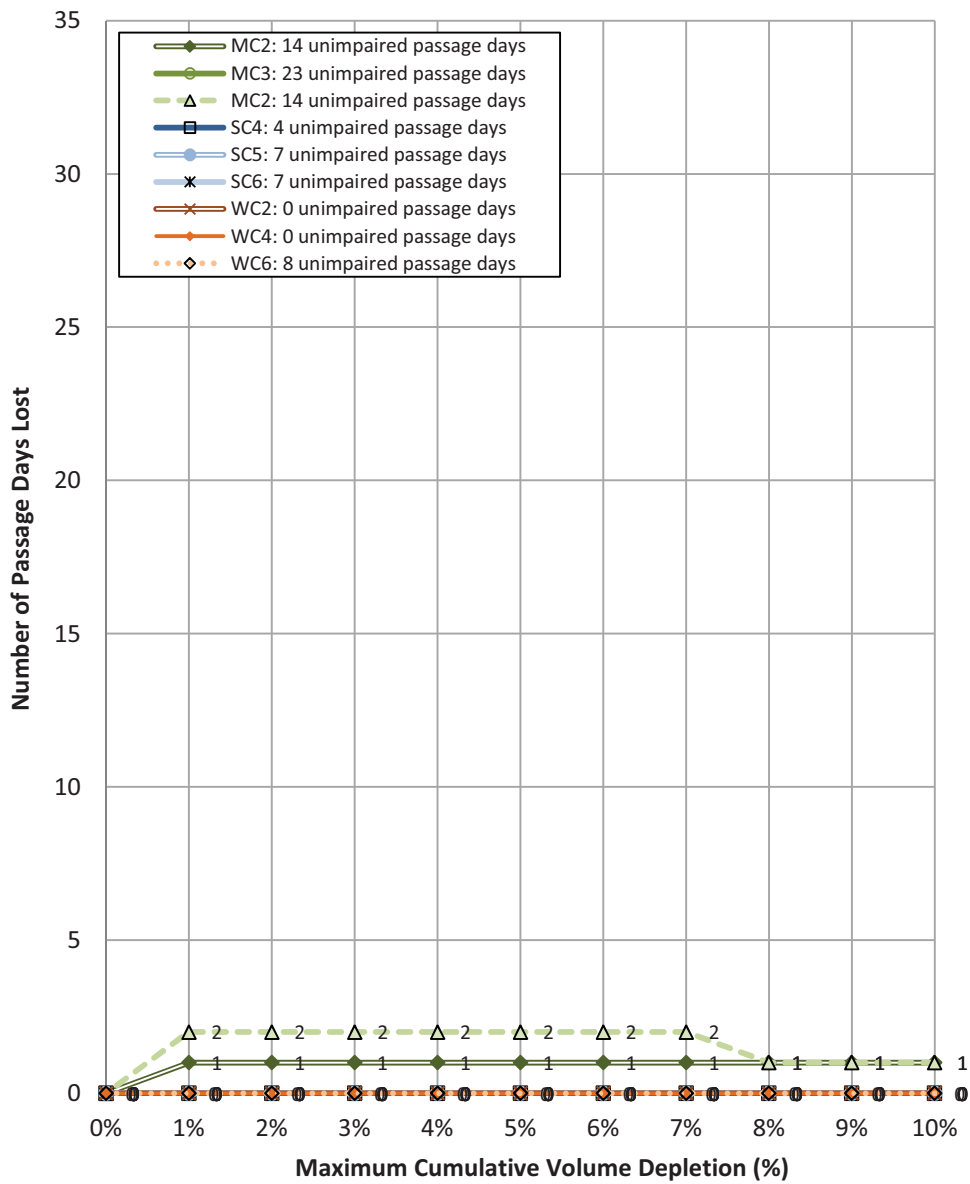
Percent of Unimpaired Spawning Days Lost

Scenario D1, October



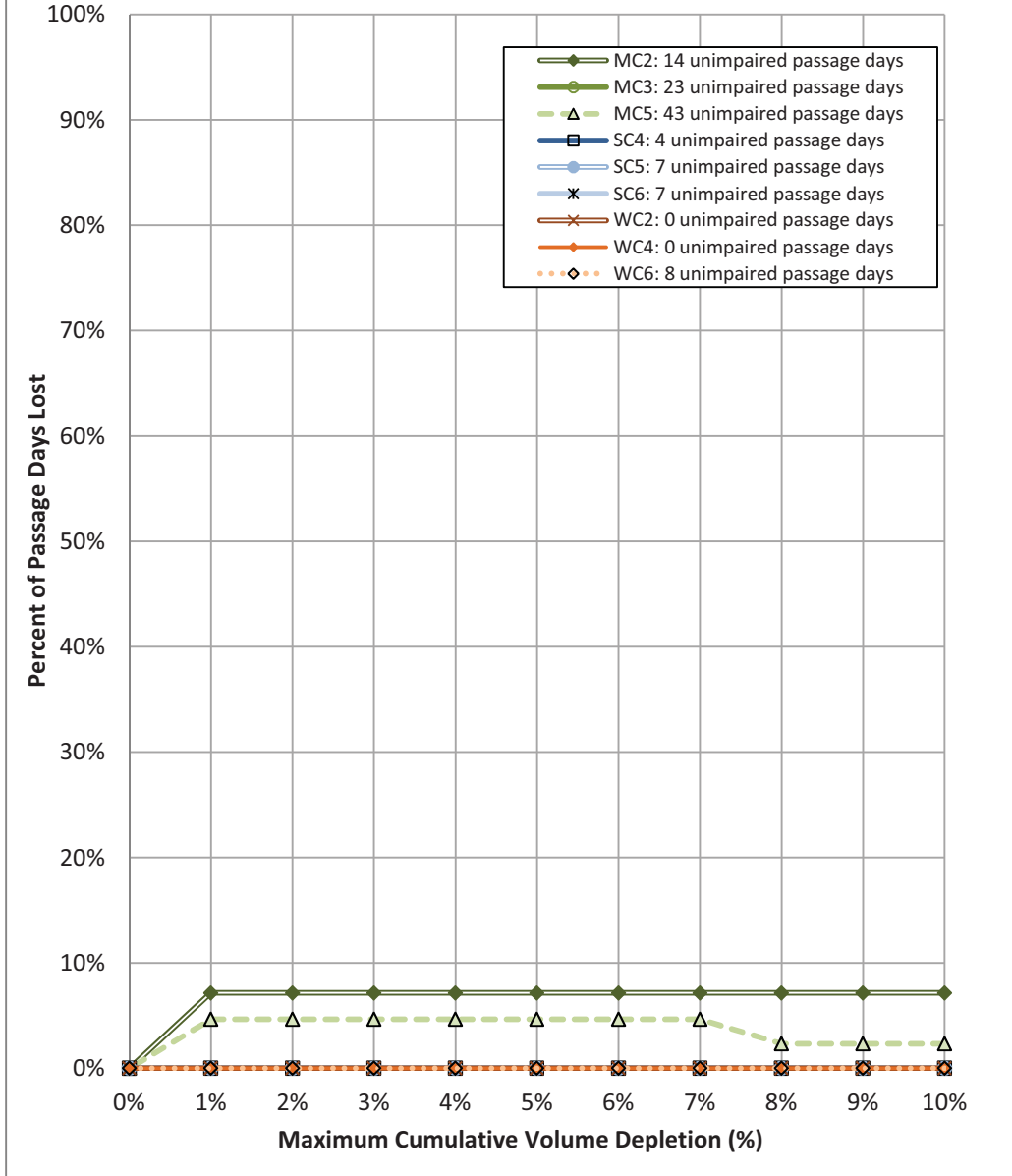
Number of Unimpaired Passage Days Lost

Scenario D1, October



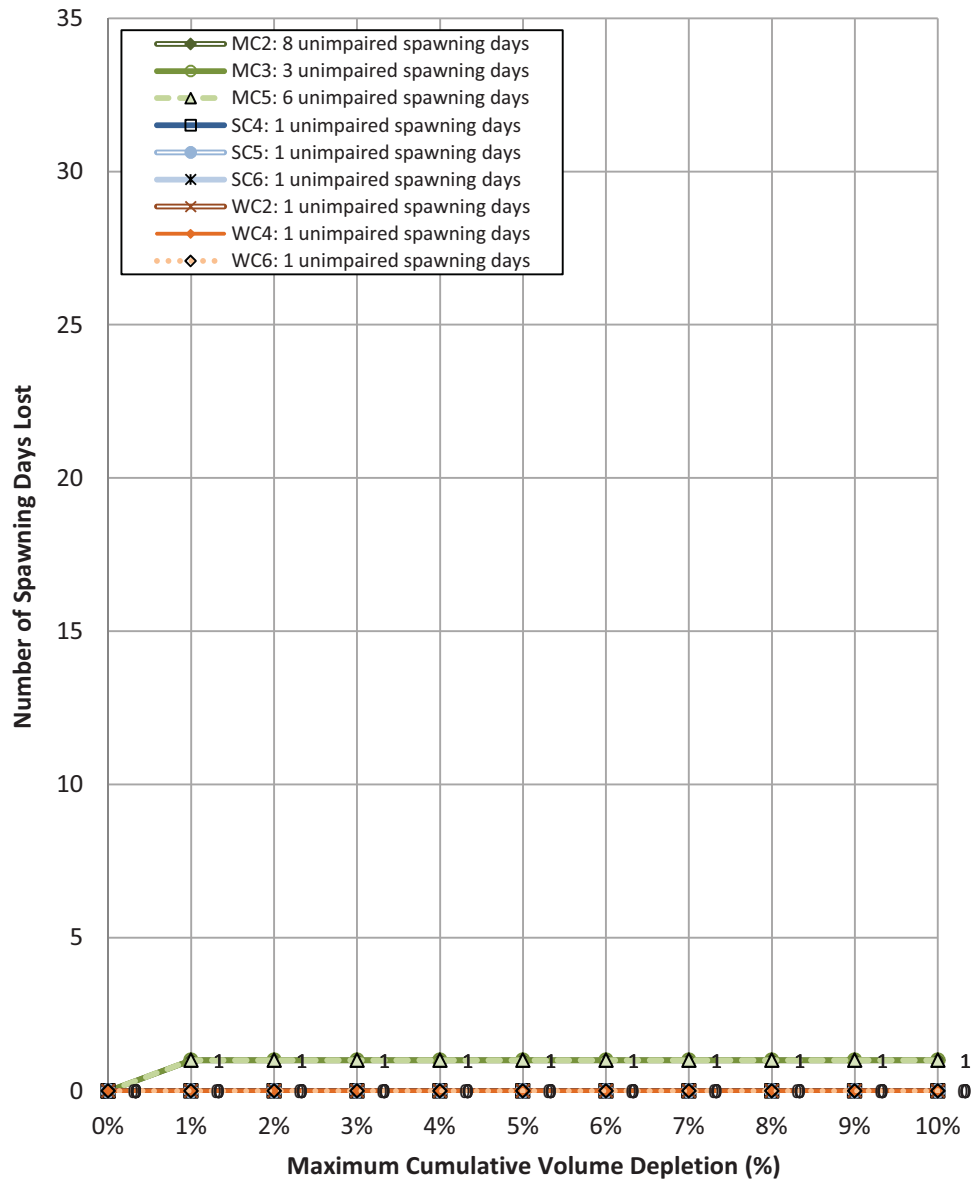
Percent of Unimpaired Passage Days Lost

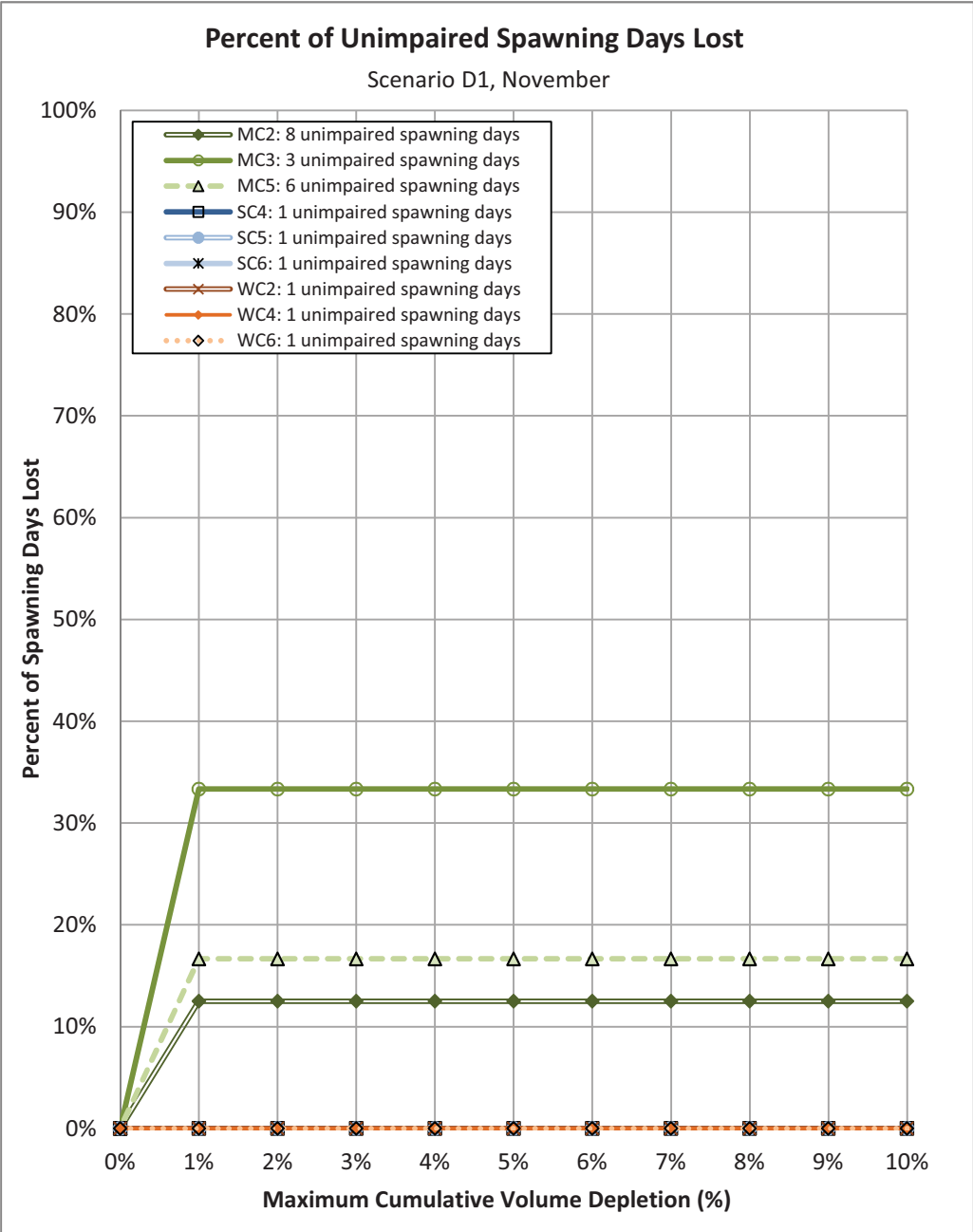
Scenario D1, October



Number of Unimpaired Spawning Days Lost

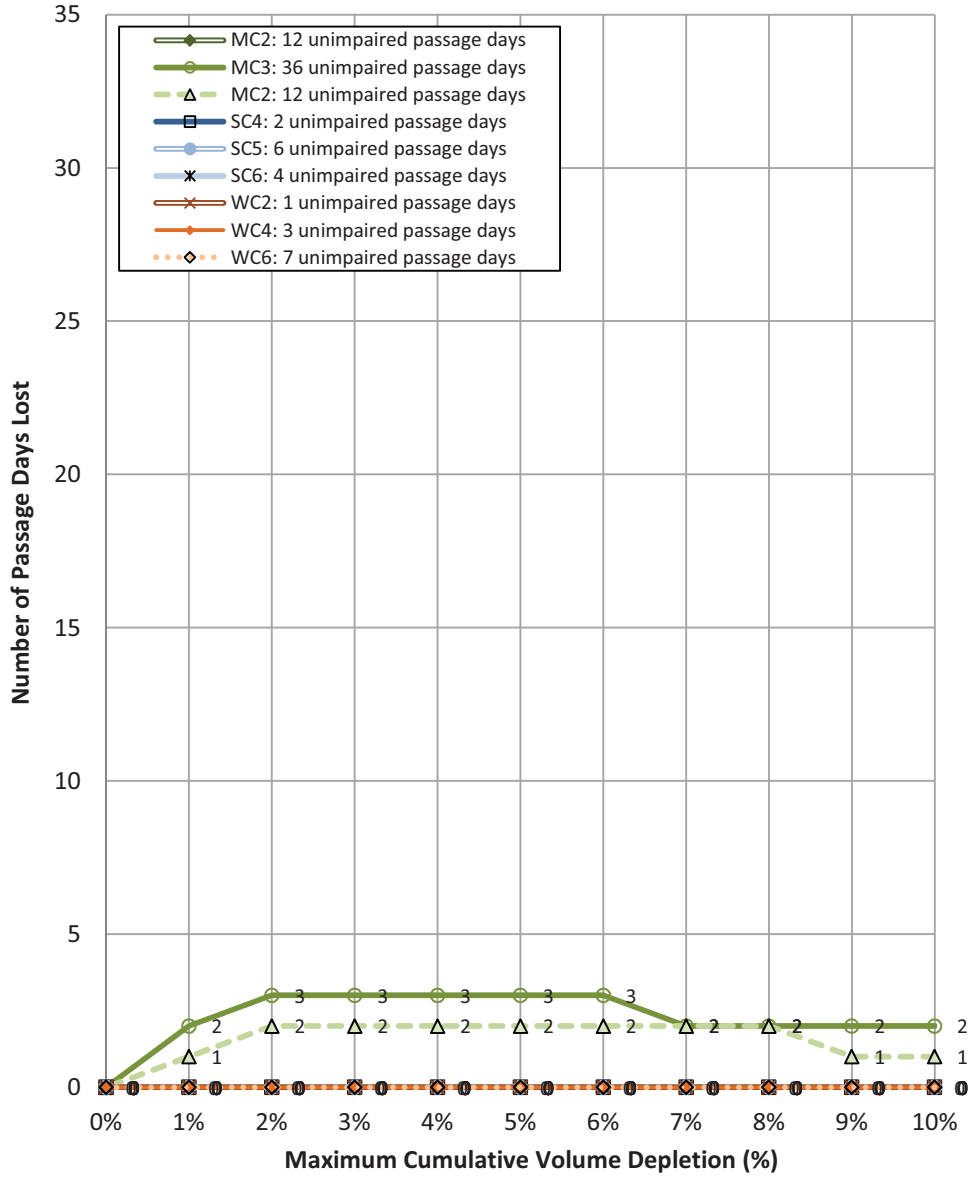
Scenario D1, November





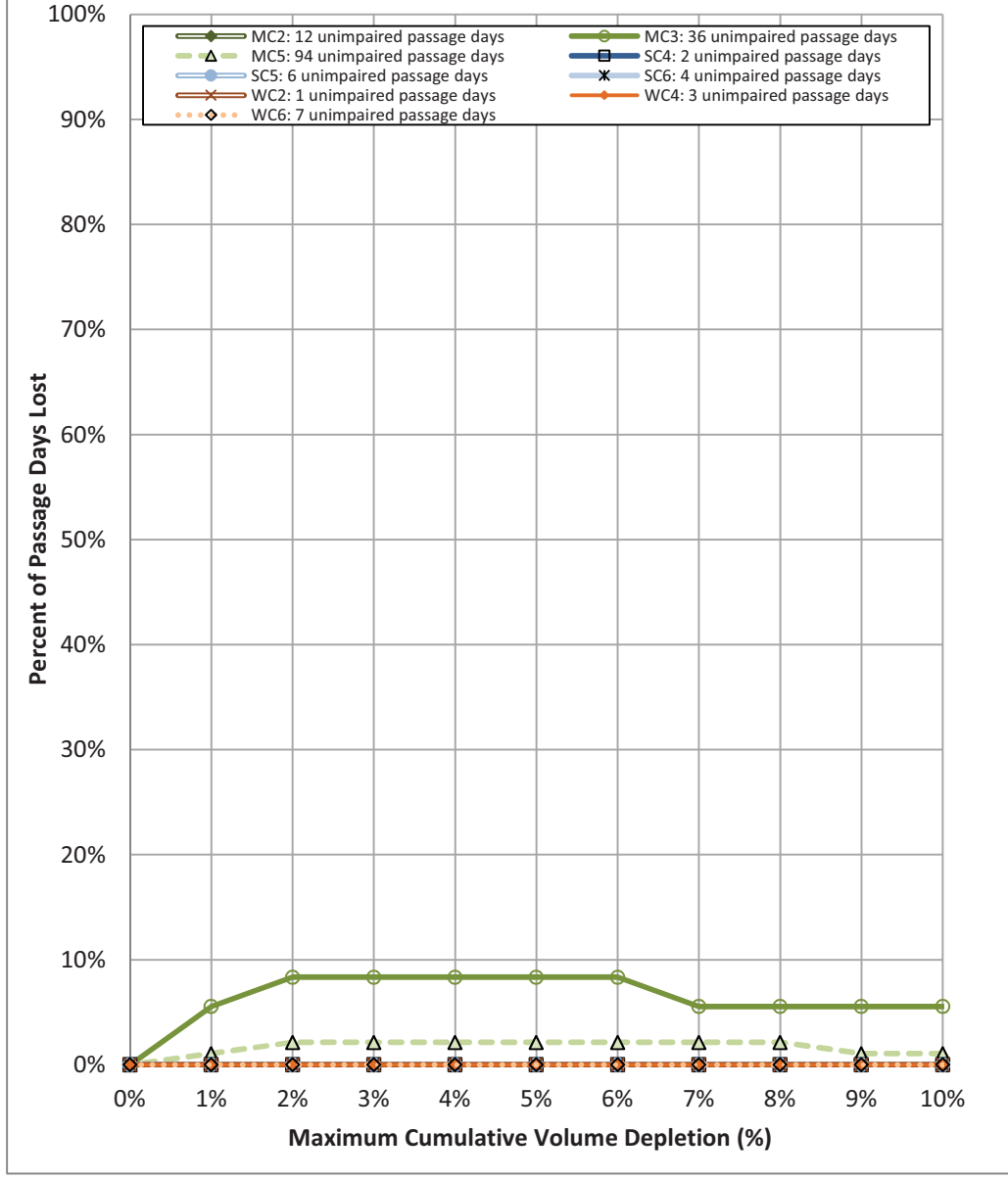
Number of Unimpaired Passage Days Lost

Scenario D1, November



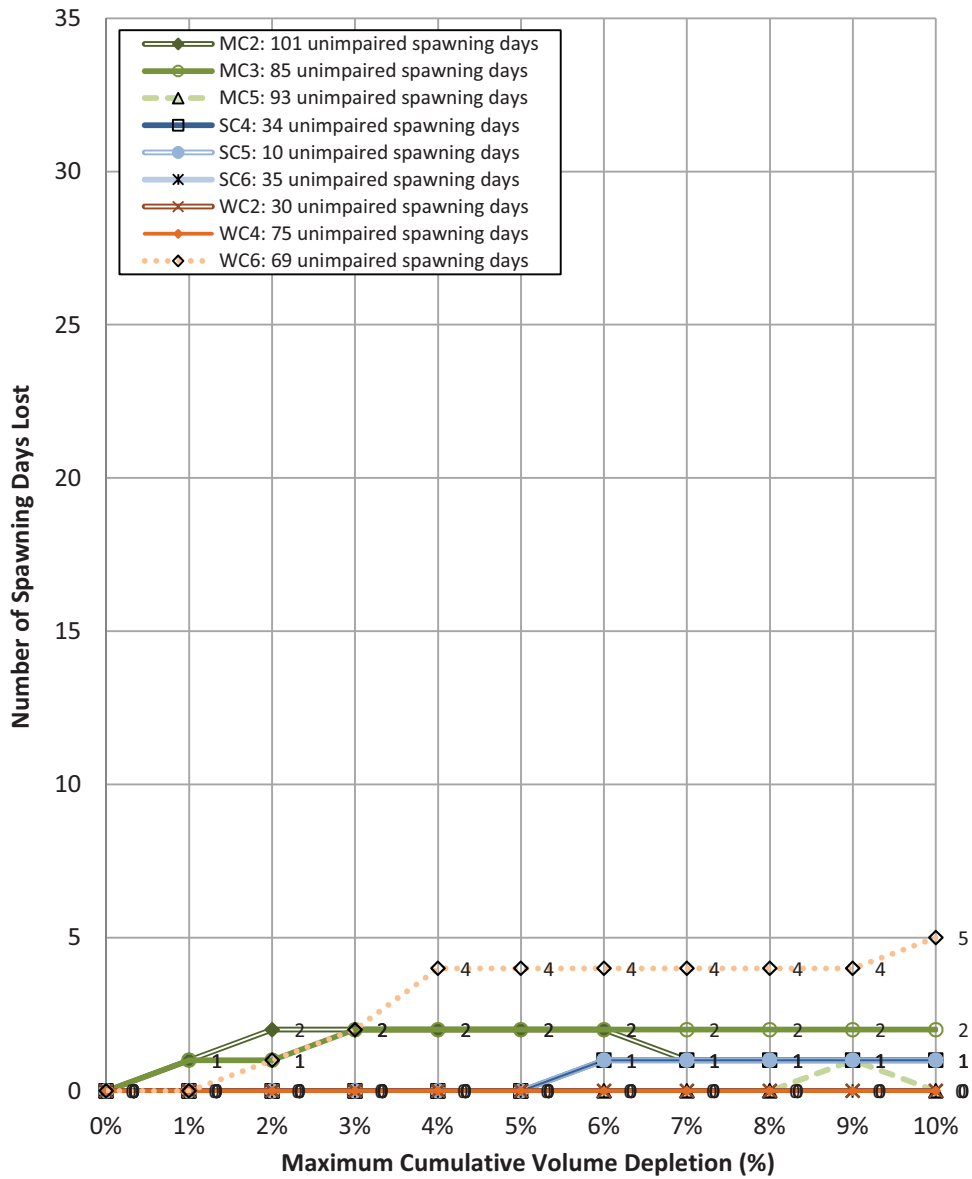
Percent of Unimpaired Passage Days Lost

Scenario D1, November



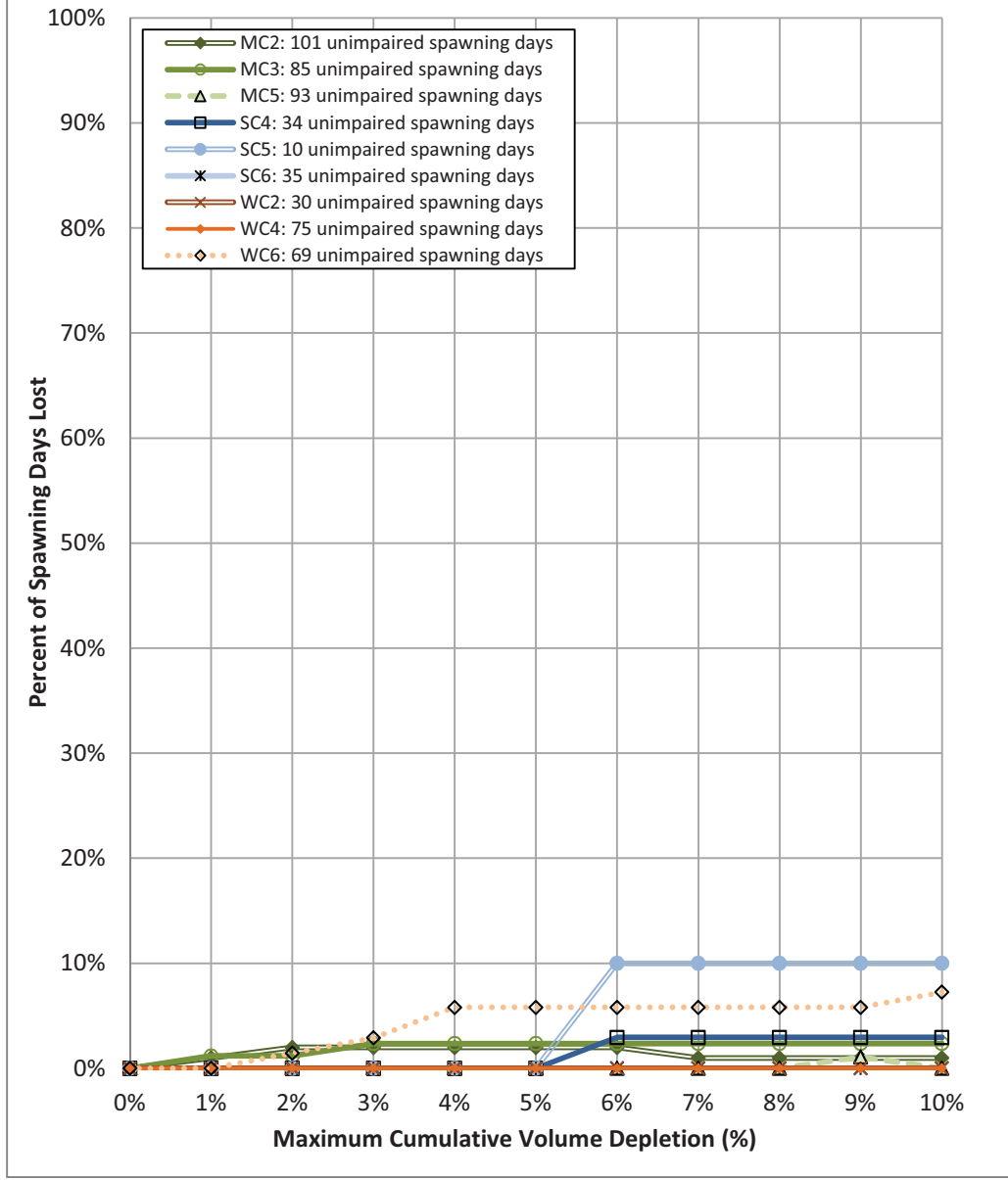
Number of Unimpaired Spawning Days Lost

Scenario D1, December



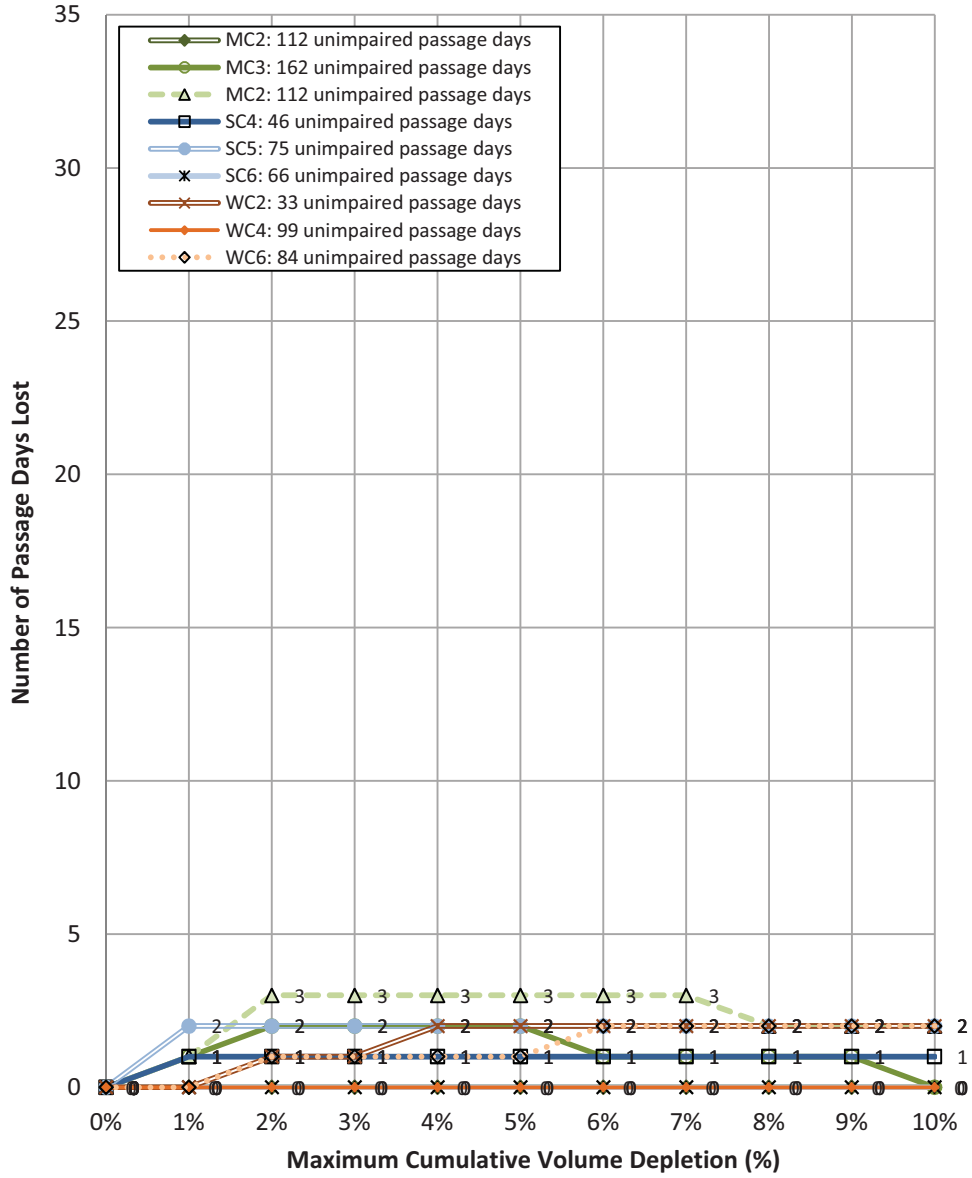
Percent of Unimpaired Spawning Days Lost

Scenario D1, December



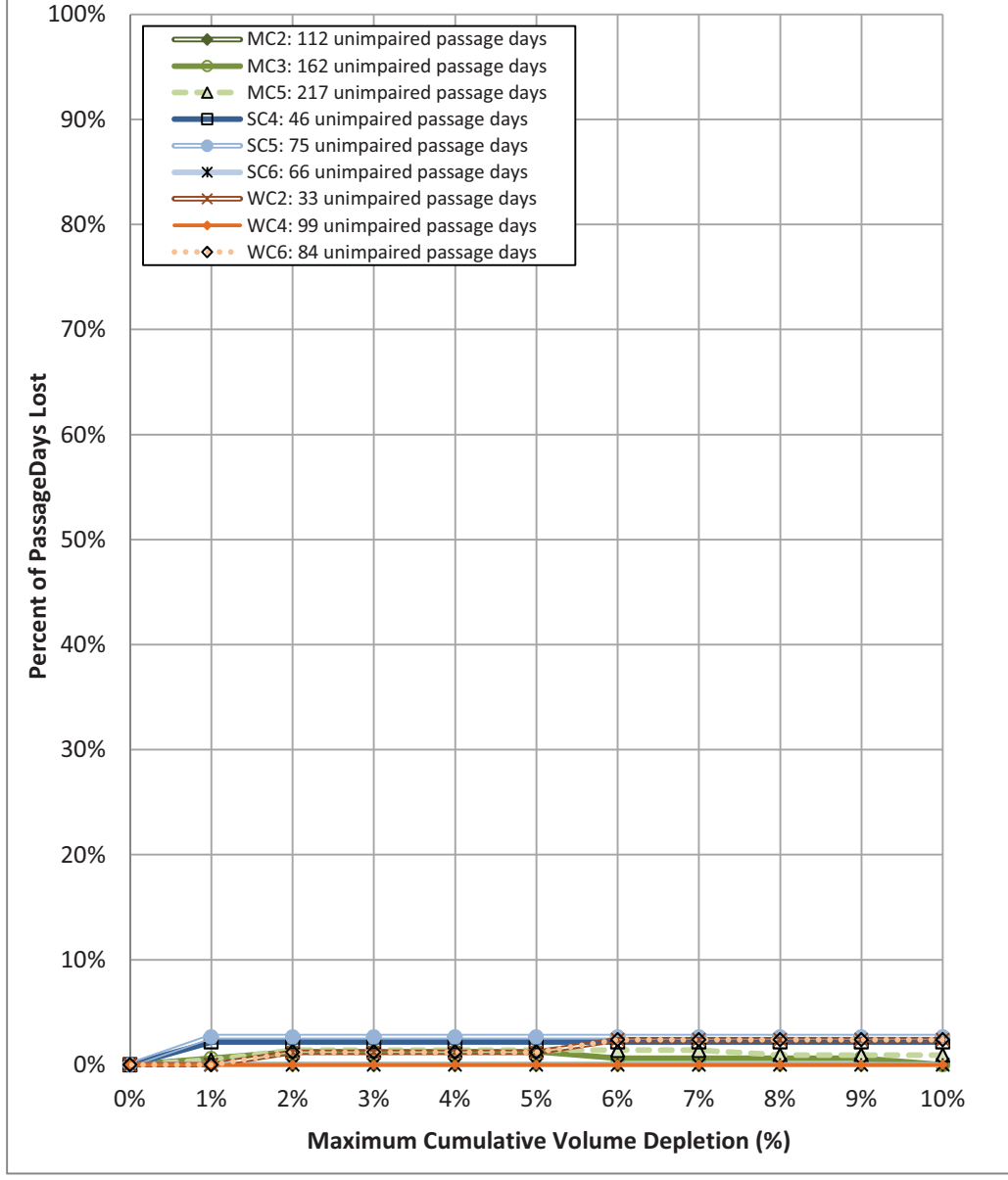
Number of Unimpaired Passage Days Lost

Scenario D1, December



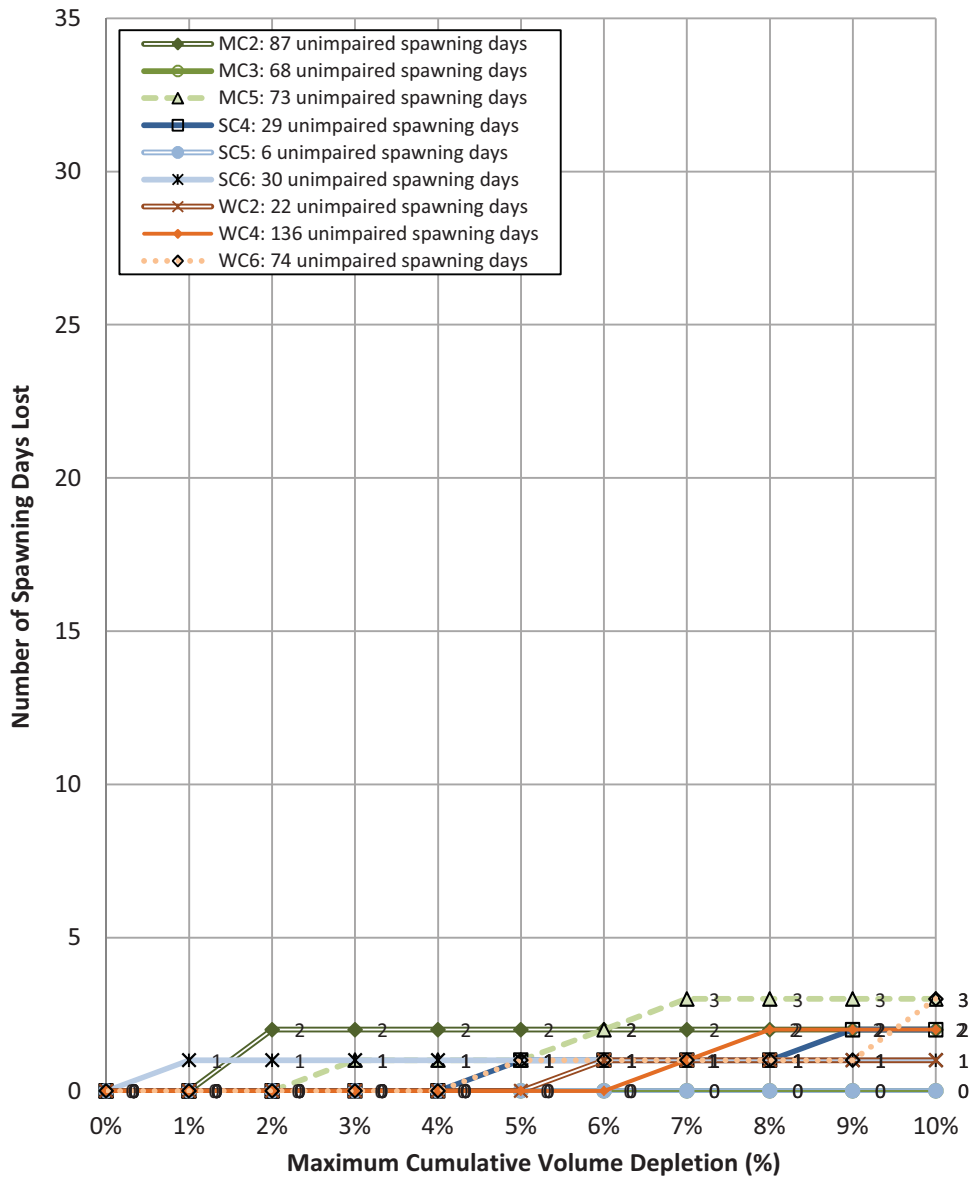
Percent of Unimpaired Passage Days Lost

Scenario D1, December



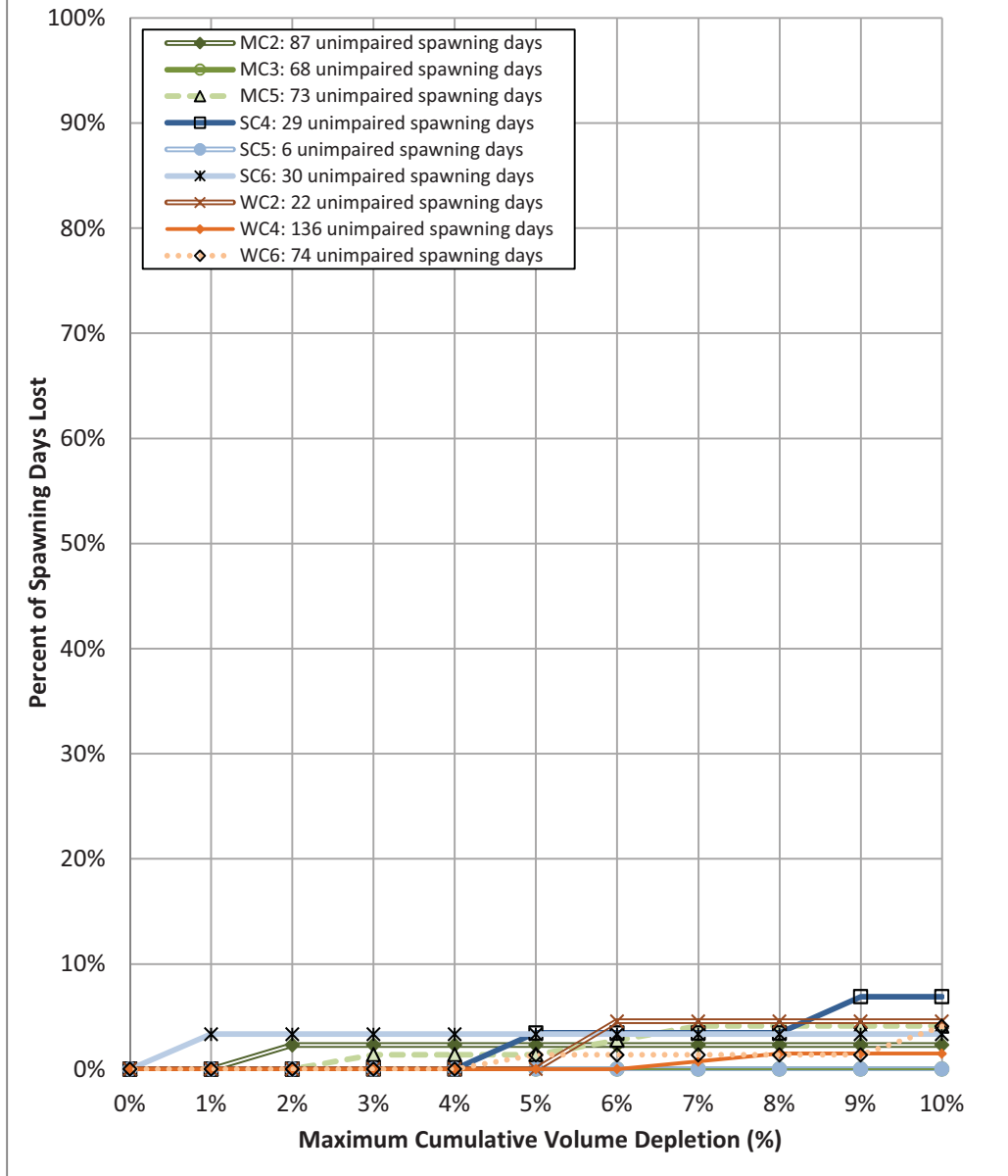
Number of Unimpaired Spawning Days Lost

Scenario D1, January



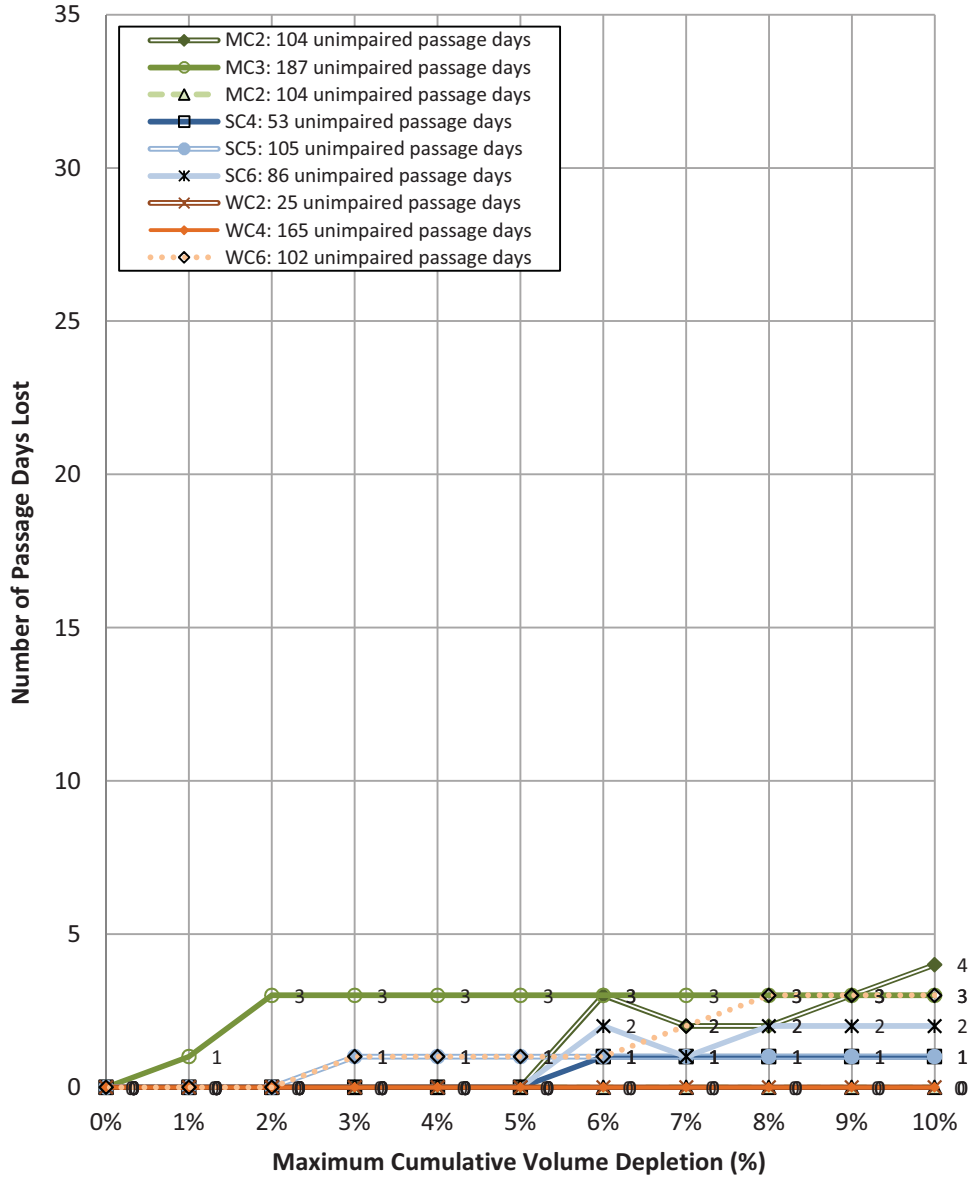
Percent of Unimpaired Spawning Days Lost

Scenario D1, January



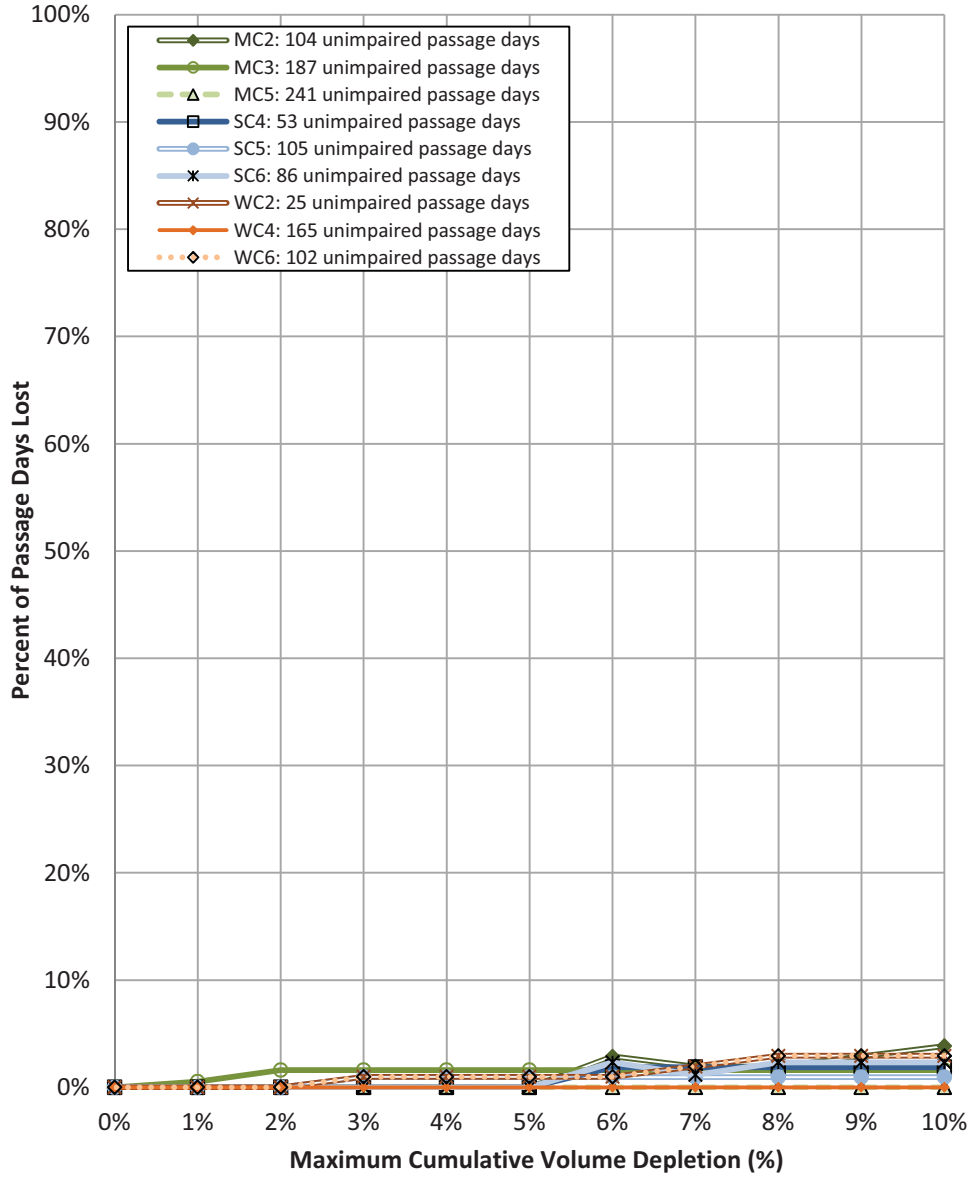
Number of Unimpaired Passage Days Lost

Scenario D1, January



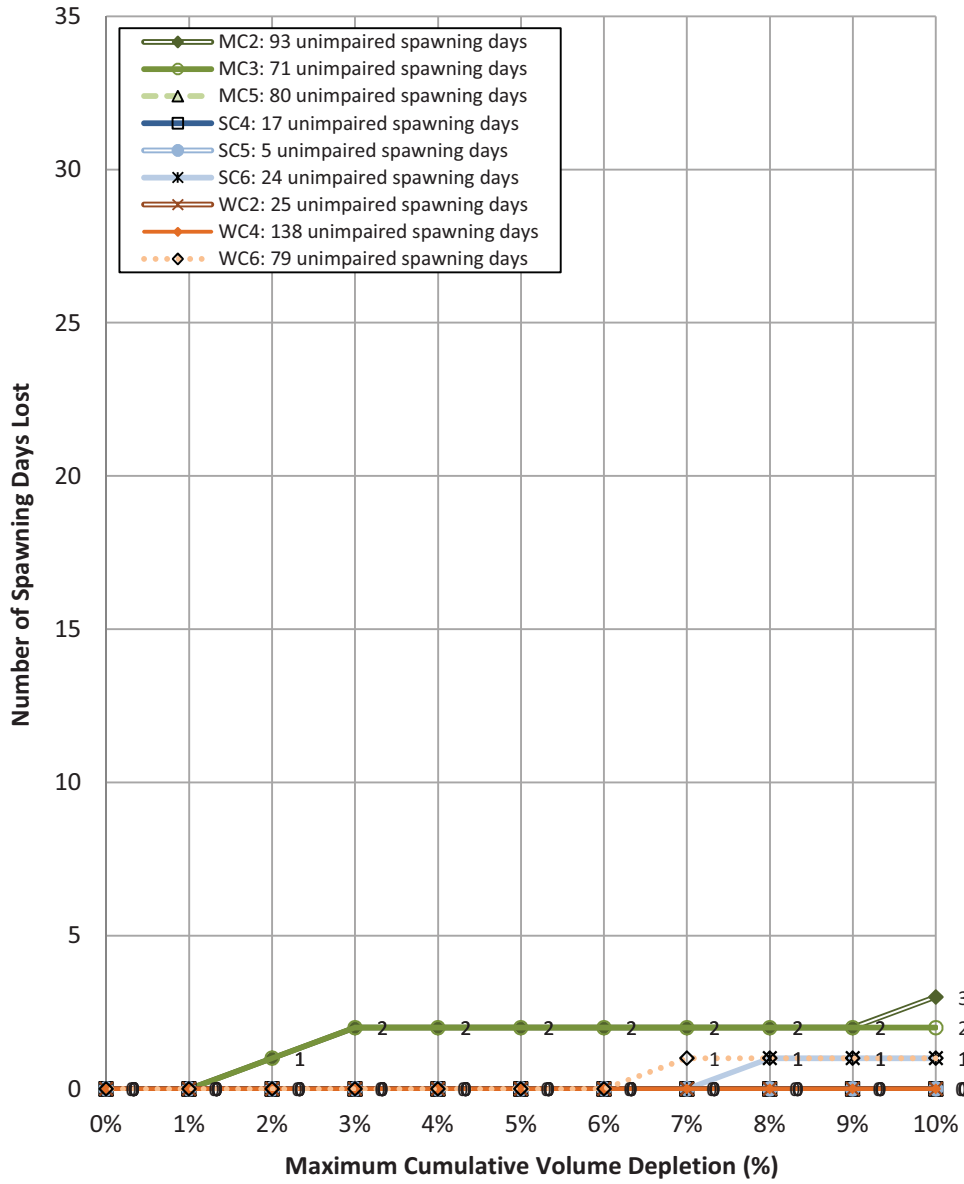
Percent of Unimpaired Passage Days Lost

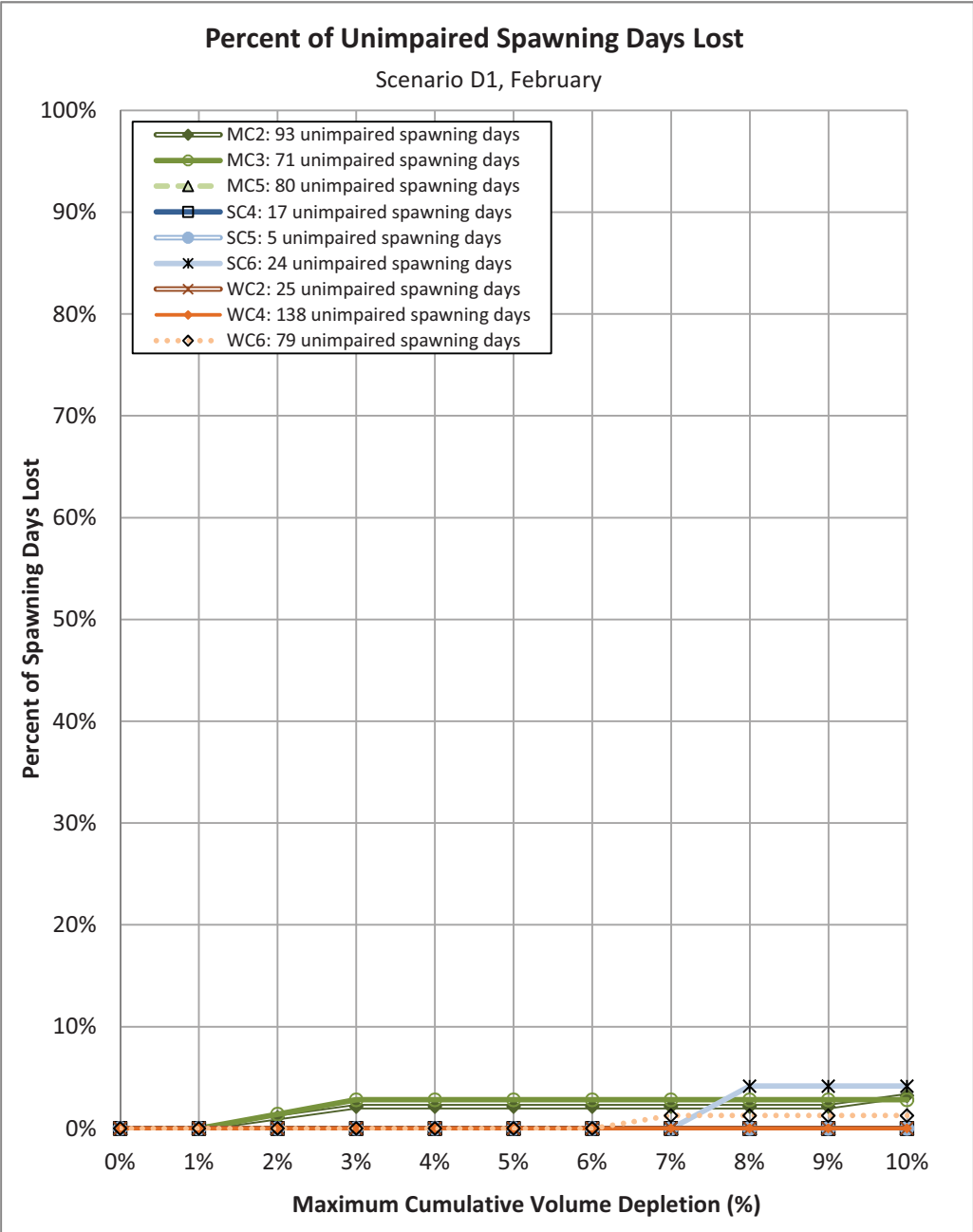
Scenario D1, January



Number of Unimpaired Spawning Days Lost

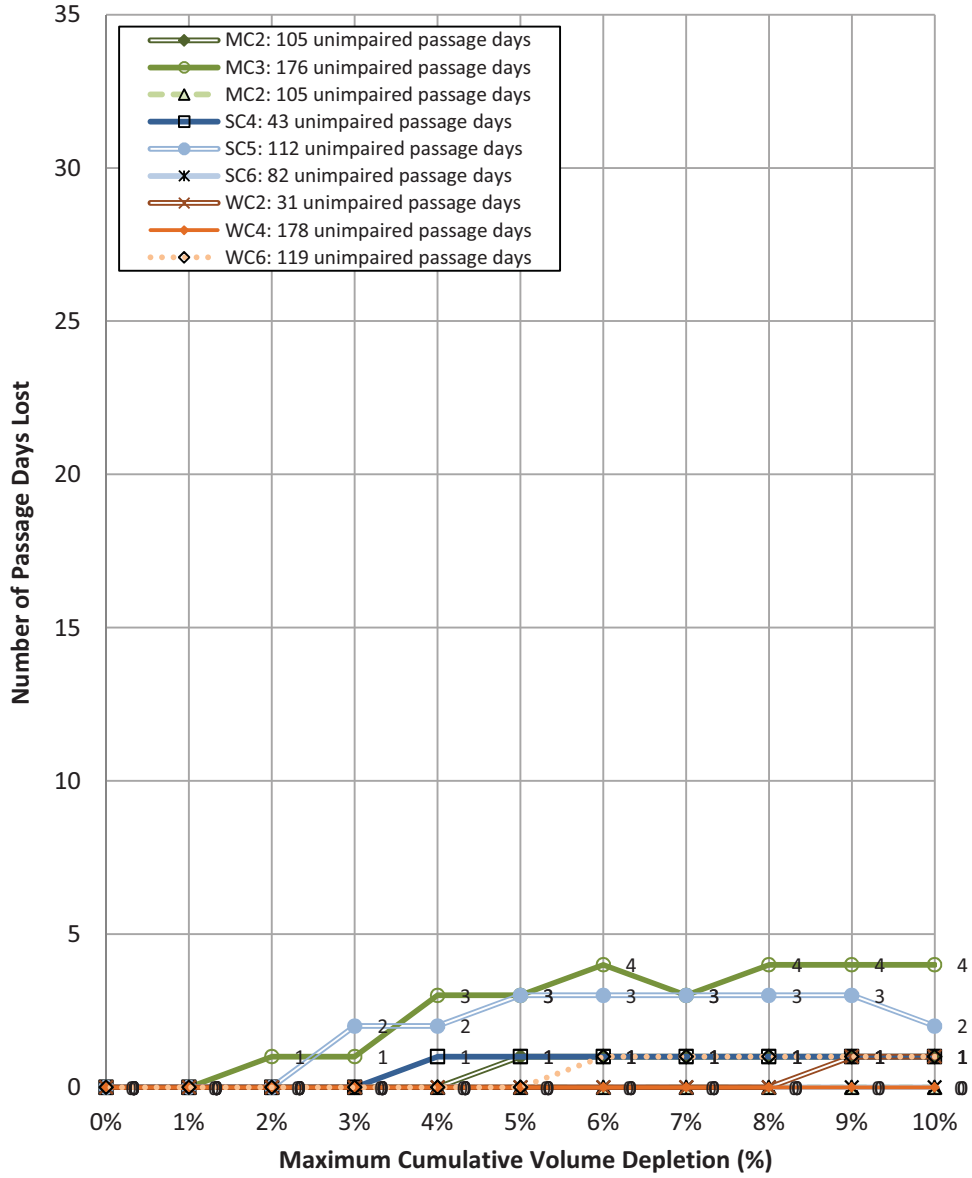
Scenario D1, February





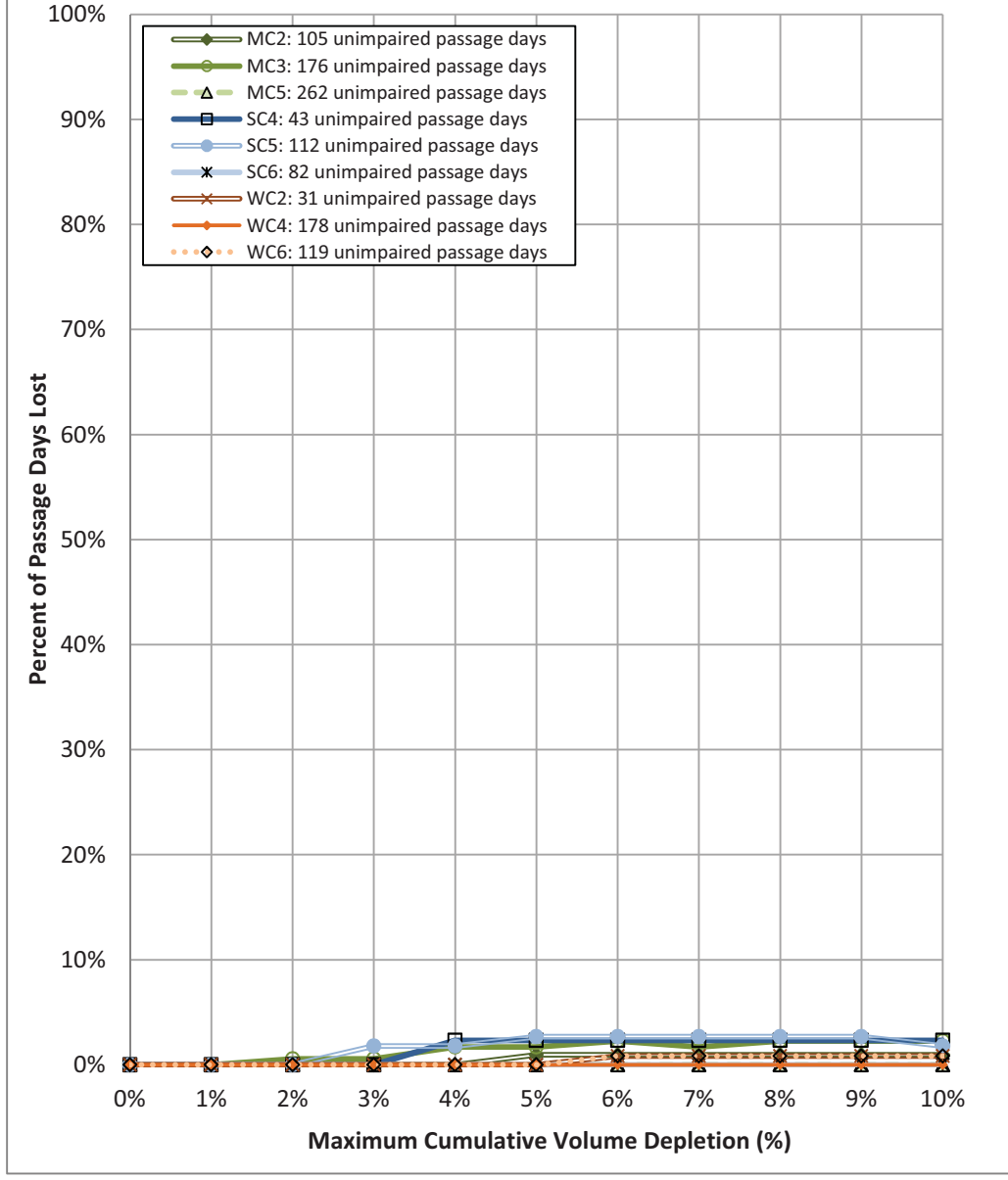
Number of Unimpaired Passage Days Lost

Scenario D1, February



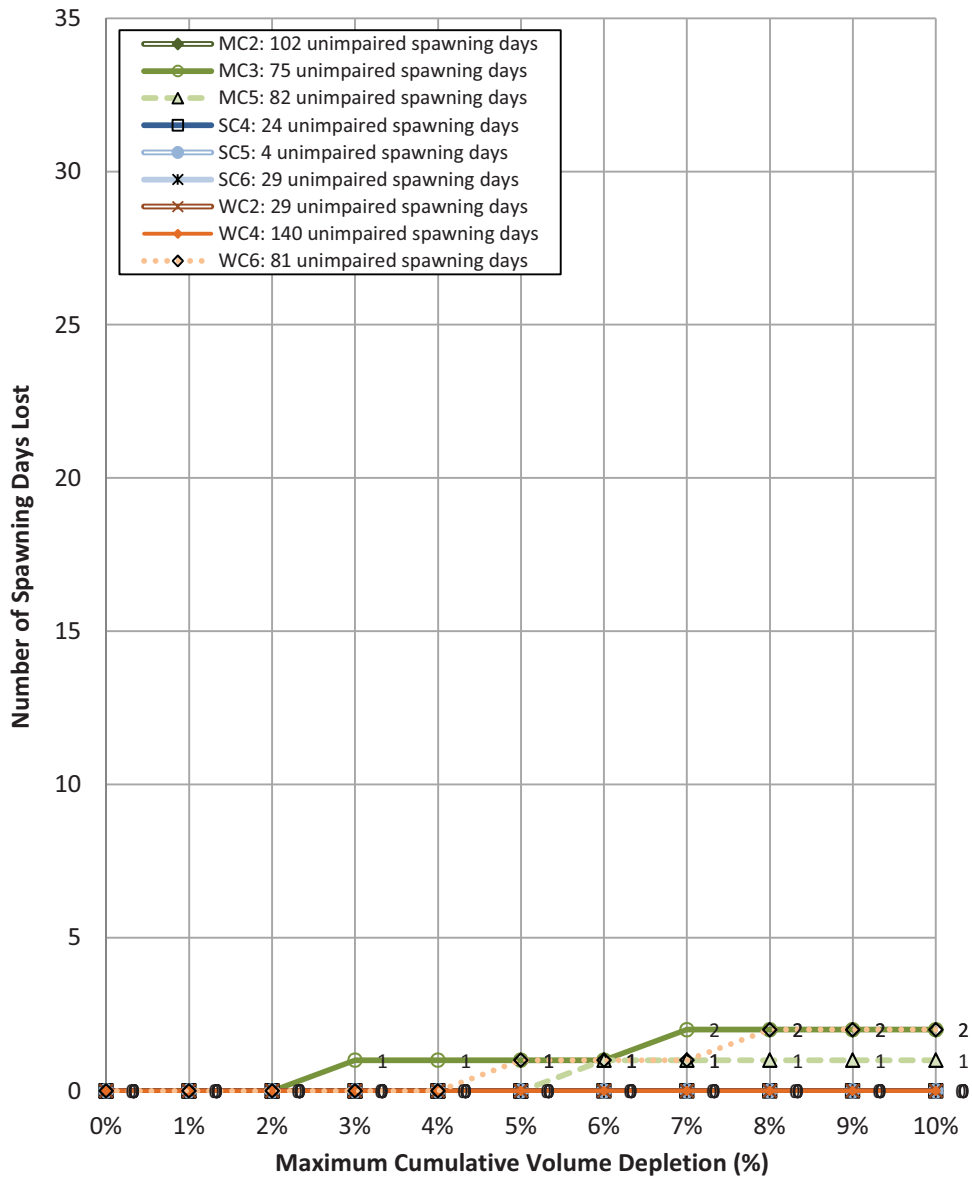
Percent of Unimpaired Passage Days Lost

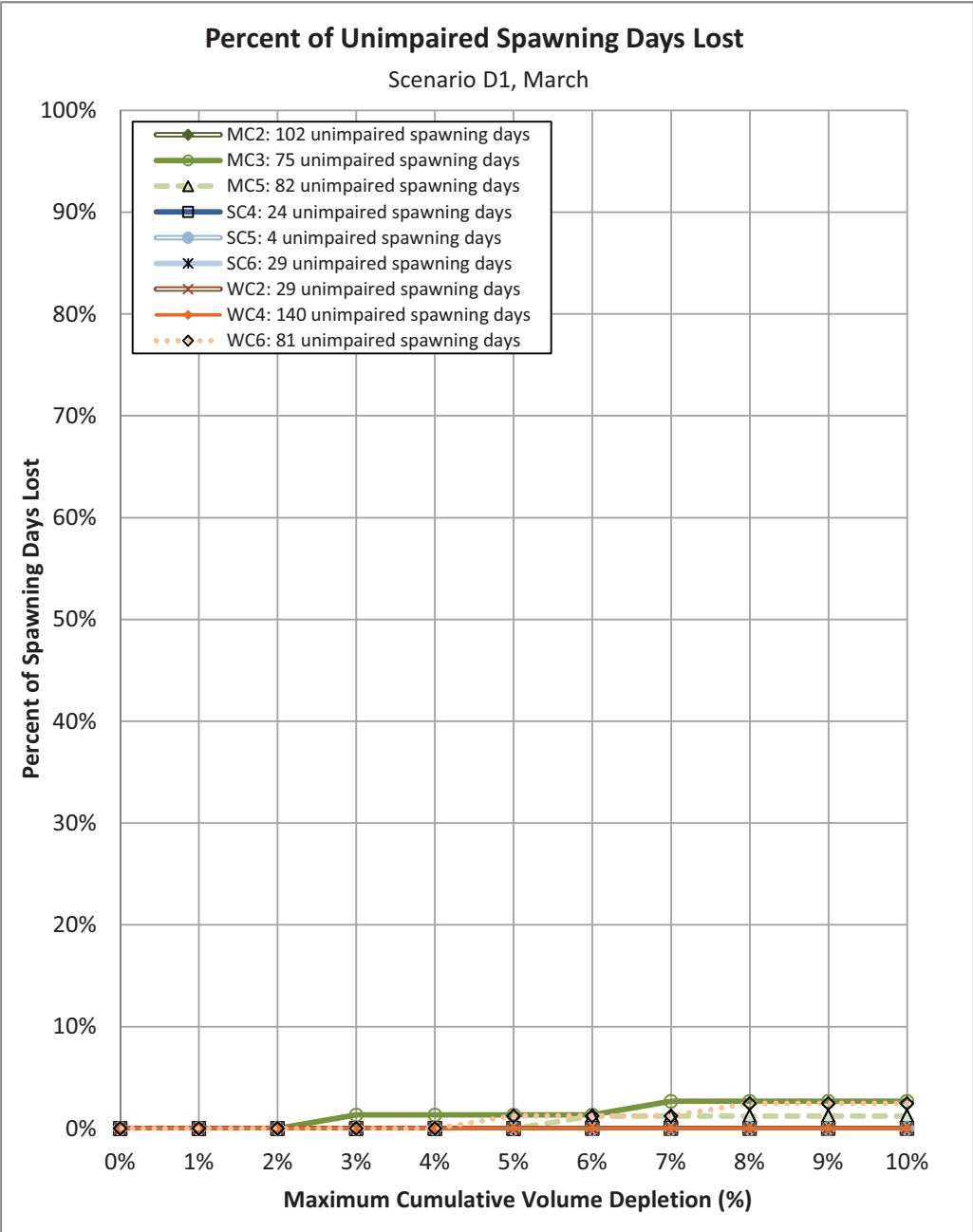
Scenario D1, February



Number of Unimpaired Spawning Days Lost

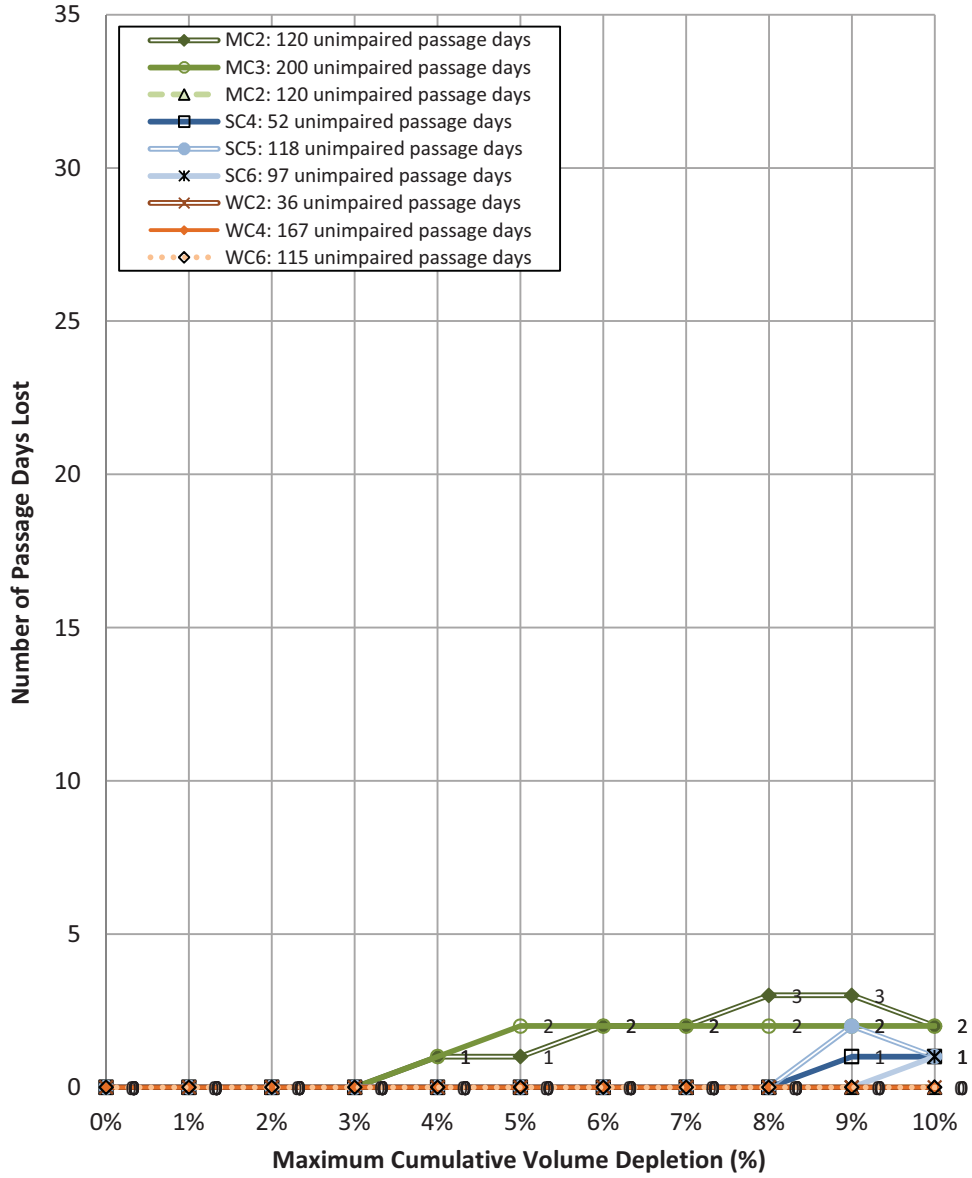
Scenario D1, March





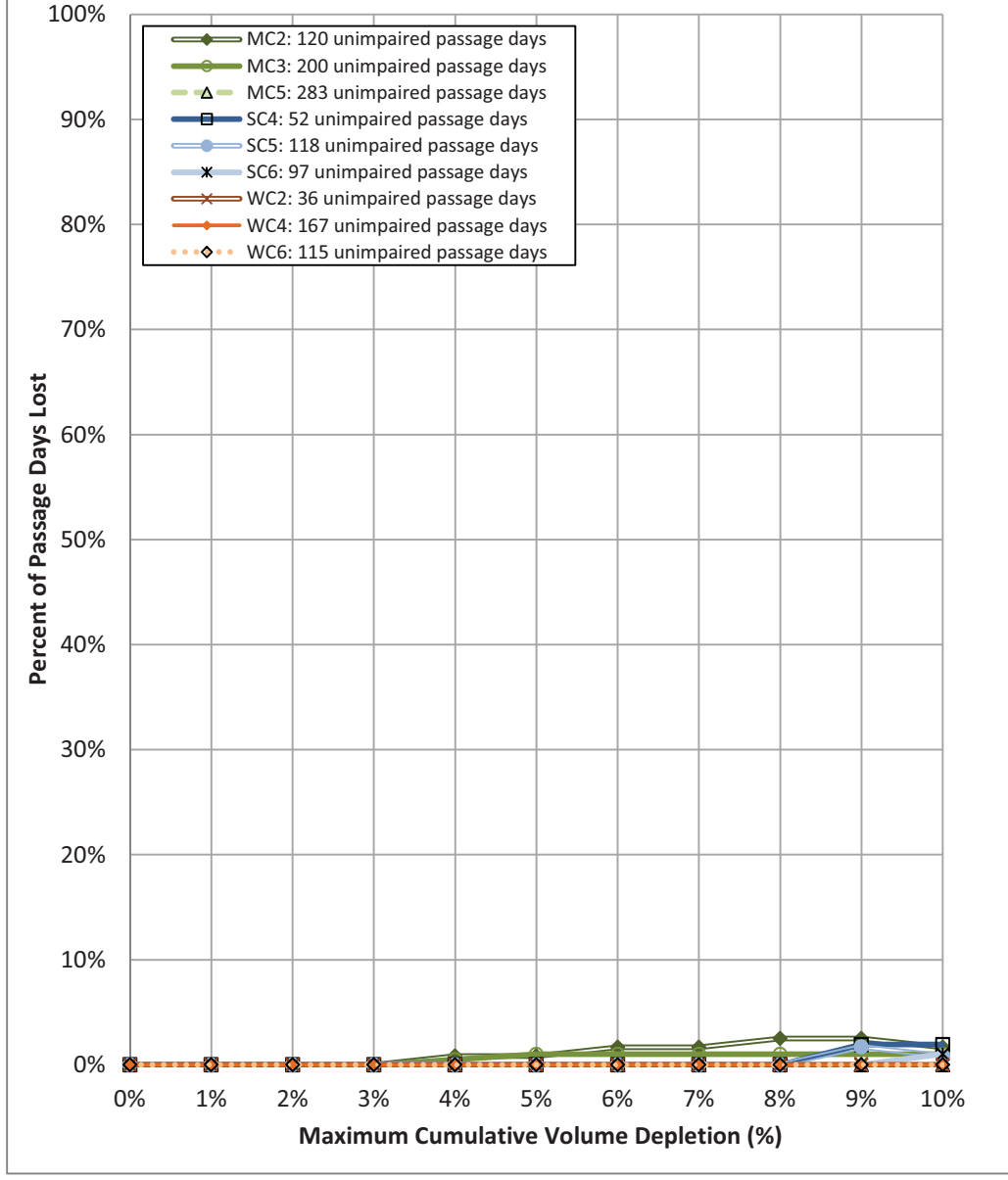
Number of Unimpaired Passage Days Lost

Scenario D1, March



Percent of Unimpaired Passage Days Lost

Scenario D1, March



2. Appendix E: Scenario D3 Passage and Spawning Day Tables, Graphs

Table E-13 Unimpaired and Impaired Passage Days in October, Scenario D3

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 14 | 23 | 43 | 4 | 7 | 7 | 0 | 0 | 8 |

| Maximum Cumulative Volume Depletion (%) | Impaired Passage Days | | | | | | | | |
|---|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 5 | 23 | 43 | 0 | 2 | 5 | 0 | 0 | 0 |
| 9% | 5 | 23 | 43 | 0 | 2 | 5 | 0 | 0 | 0 |
| 8% | 5 | 23 | 43 | 0 | 2 | 5 | 0 | 0 | 0 |
| 7% | 5 | 23 | 43 | 0 | 3 | 5 | 0 | 0 | 0 |
| 6% | 6 | 23 | 43 | 0 | 3 | 5 | 0 | 0 | 0 |
| 5% | 6 | 23 | 43 | 0 | 5 | 6 | 0 | 0 | 0 |
| 4% | 7 | 23 | 43 | 0 | 5 | 6 | 0 | 0 | 0 |
| 3% | 9 | 23 | 43 | 2 | 5 | 6 | 0 | 0 | 0 |
| 2% | 11 | 23 | 43 | 2 | 6 | 6 | 0 | 0 | 3 |
| 1% | 11 | 23 | 43 | 4 | 7 | 6 | 0 | 0 | 6 |
| 0% | 14 | 23 | 43 | 4 | 7 | 7 | 0 | 0 | 8 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Passage Days Lost | | | | | | | | |
|---|---|-----|-----|------|-----|-----|-----|-----|------|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 64% | - | - | 100% | 71% | 29% | - | - | 100% |
| 9% | 64% | - | - | 100% | 71% | 29% | - | - | 100% |
| 8% | 64% | - | - | 100% | 71% | 29% | - | - | 100% |
| 7% | 64% | - | - | 100% | 57% | 29% | - | - | 100% |
| 6% | 57% | - | - | 100% | 57% | 29% | - | - | 100% |
| 5% | 57% | - | - | 100% | 29% | 14% | - | - | 100% |
| 4% | 50% | - | - | 100% | 29% | 14% | - | - | 100% |
| 3% | 36% | - | - | 50% | 29% | 14% | - | - | 100% |
| 2% | 21% | - | - | 50% | 14% | 14% | - | - | 63% |
| 1% | 21% | - | - | - | - | 14% | - | - | 25% |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of passage days

Table E-14 Unimpaired and Impaired Spawning Days in October, Scenario D3

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 9 | 6 | 6 | 0 | 0 | 1 | 0 | 0 | 1 |

| Maximum Cumulative Volume Depletion (%) | Impaired Spawning Days | | | | | | | | |
|---|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 4 | 1 | 6 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9% | 4 | 2 | 6 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8% | 4 | 3 | 6 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7% | 4 | 3 | 6 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6% | 4 | 3 | 6 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5% | 5 | 3 | 6 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4% | 5 | 4 | 6 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3% | 6 | 4 | 6 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2% | 8 | 4 | 6 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1% | 8 | 4 | 6 | 0 | 0 | 1 | 0 | 0 | 0 |
| 0% | 9 | 6 | 6 | 0 | 0 | 1 | 0 | 0 | 1 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Spawning Days Lost | | | | | | | | |
|---|--|-----|-----|-----|-----|------|-----|-----|------|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 56% | 83% | - | - | - | 100% | - | - | 100% |
| 9% | 56% | 67% | - | - | - | 100% | - | - | 100% |
| 8% | 56% | 50% | - | - | - | 100% | - | - | 100% |
| 7% | 56% | 50% | - | - | - | 100% | - | - | 100% |
| 6% | 56% | 50% | - | - | - | 100% | - | - | 100% |
| 5% | 44% | 50% | - | - | - | 100% | - | - | 100% |
| 4% | 44% | 33% | - | - | - | 100% | - | - | 100% |
| 3% | 33% | 33% | - | - | - | 100% | - | - | 100% |
| 2% | 11% | 33% | - | - | - | 100% | - | - | 100% |
| 1% | 11% | 33% | - | - | - | - | - | - | 100% |
| 0% | - | - | - | - | - | - | - | - | - |

Notes:

'-' indicates no loss of spawning days

Spawning is not usual in October; results provided only for comparison.

Table E-15 Unimpaired and Impaired Passage Days in November, Scenario D3

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | 12 | 36 | 94 | 2 | 6 | 4 | 1 | 3 |

| Maximum Cumulative Volume Depletion (%) | Impaired Passage Days | | | | | | | | |
|---|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 3 | 35 | 94 | 1 | 3 | 2 | 0 | 3 | 1 |
| 9% | 3 | 35 | 94 | 1 | 3 | 2 | 0 | 3 | 1 |
| 8% | 4 | 35 | 94 | 1 | 3 | 2 | 0 | 3 | 1 |
| 7% | 4 | 35 | 94 | 1 | 3 | 3 | 0 | 3 | 1 |
| 6% | 5 | 35 | 94 | 1 | 3 | 4 | 1 | 3 | 1 |
| 5% | 6 | 35 | 94 | 1 | 3 | 4 | 1 | 3 | 1 |
| 4% | 6 | 35 | 94 | 1 | 3 | 4 | 1 | 3 | 2 |
| 3% | 7 | 35 | 94 | 1 | 4 | 4 | 1 | 3 | 3 |
| 2% | 8 | 35 | 94 | 1 | 4 | 4 | 1 | 3 | 3 |
| 1% | 10 | 35 | 94 | 2 | 5 | 4 | 1 | 3 | 5 |
| 0% | 12 | 36 | 94 | 2 | 6 | 4 | 1 | 3 | 7 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Passage Days Lost | | | | | | | | |
|---|---|-----|-----|-----|-----|-----|------|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 75% | 3% | - | 50% | 50% | 50% | 100% | - | 86% |
| 9% | 75% | 3% | - | 50% | 50% | 50% | 100% | - | 86% |
| 8% | 67% | 3% | - | 50% | 50% | 50% | 100% | - | 86% |
| 7% | 67% | 3% | - | 50% | 50% | 25% | 100% | - | 86% |
| 6% | 58% | 3% | - | 50% | 50% | - | - | - | 86% |
| 5% | 50% | 3% | - | 50% | 50% | - | - | - | 86% |
| 4% | 50% | 3% | - | 50% | 50% | - | - | - | 71% |
| 3% | 42% | 3% | - | 50% | 33% | - | - | - | 57% |
| 2% | 33% | 3% | - | 50% | 33% | - | - | - | 57% |
| 1% | 17% | 3% | - | - | 17% | - | - | - | 29% |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of passage days

Table E-16 Unimpaired and Impaired Spawning Days in November, Scenario D3

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 8 | 3 | 6 | 1 | 1 | 1 | 1 | 1 | 1 |

| Maximum Cumulative Volume Depletion (%) | Impaired Spawning Days | | | | | | | | |
|---|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 2 | 2 | 3 | 1 | 1 | 1 | 0 | 1 | 0 |
| 9% | 2 | 2 | 3 | 1 | 1 | 1 | 0 | 1 | 0 |
| 8% | 2 | 2 | 4 | 1 | 1 | 1 | 0 | 1 | 0 |
| 7% | 3 | 2 | 4 | 1 | 1 | 1 | 0 | 1 | 0 |
| 6% | 3 | 2 | 4 | 1 | 1 | 1 | 0 | 1 | 1 |
| 5% | 5 | 2 | 4 | 1 | 1 | 1 | 1 | 1 | 1 |
| 4% | 5 | 2 | 4 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3% | 6 | 2 | 4 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2% | 6 | 2 | 4 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1% | 7 | 3 | 4 | 1 | 1 | 1 | 1 | 1 | 1 |
| 0% | 8 | 3 | 6 | 1 | 1 | 1 | 1 | 1 | 1 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Spawning Days Lost | | | | | | | | |
|---|--|-----|-----|-----|-----|-----|------|-----|------|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 75% | 33% | 50% | - | - | - | 100% | - | 100% |
| 9% | 75% | 33% | 50% | - | - | - | 100% | - | 100% |
| 8% | 75% | 33% | 33% | - | - | - | 100% | - | 100% |
| 7% | 63% | 33% | 33% | - | - | - | 100% | - | 100% |
| 6% | 63% | 33% | 33% | - | - | - | 100% | - | - |
| 5% | 38% | 33% | 33% | - | - | - | - | - | - |
| 4% | 38% | 33% | 33% | - | - | - | - | - | - |
| 3% | 25% | 33% | 33% | - | - | - | - | - | - |
| 2% | 25% | 33% | 33% | - | - | - | - | - | - |
| 1% | 13% | - | 33% | - | - | - | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of spawning days

Table E-17 Unimpaired and Impaired Passage Days in December, Scenario D3

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | 112 | 162 | 217 | 46 | 75 | 66 | 33 | 99 |

| Maximum Cumulative Volume Depletion (%) | Impaired Passage Days | | | | | | | | |
|---|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 94 | 162 | 217 | 41 | 60 | 62 | 28 | 99 | 71 |
| 9% | 96 | 162 | 217 | 42 | 60 | 62 | 28 | 99 | 72 |
| 8% | 98 | 162 | 217 | 43 | 63 | 62 | 28 | 99 | 73 |
| 7% | 98 | 162 | 217 | 43 | 64 | 63 | 28 | 99 | 75 |
| 6% | 100 | 162 | 217 | 44 | 64 | 63 | 30 | 99 | 76 |
| 5% | 103 | 162 | 217 | 44 | 64 | 63 | 30 | 99 | 76 |
| 4% | 105 | 162 | 217 | 45 | 65 | 63 | 31 | 99 | 78 |
| 3% | 105 | 162 | 217 | 45 | 68 | 64 | 31 | 99 | 80 |
| 2% | 106 | 162 | 217 | 45 | 71 | 65 | 32 | 99 | 82 |
| 1% | 109 | 162 | 217 | 45 | 73 | 66 | 33 | 99 | 83 |
| 0% | 112 | 162 | 217 | 46 | 75 | 66 | 33 | 99 | 84 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Passage Days Lost | | | | | | | | |
|---|---|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 16% | - | - | 11% | 20% | 6% | 15% | - | 15% |
| 9% | 14% | - | - | 9% | 20% | 6% | 15% | - | 14% |
| 8% | 13% | - | - | 7% | 16% | 6% | 15% | - | 13% |
| 7% | 13% | - | - | 7% | 15% | 5% | 15% | - | 11% |
| 6% | 11% | - | - | 4% | 15% | 5% | 9% | - | 10% |
| 5% | 8% | - | - | 4% | 15% | 5% | 9% | - | 10% |
| 4% | 6% | - | - | 2% | 13% | 5% | 6% | - | 7% |
| 3% | 6% | - | - | 2% | 9% | 3% | 6% | - | 5% |
| 2% | 5% | - | - | 2% | 5% | 2% | 3% | - | 2% |
| 1% | 3% | - | - | 2% | 3% | - | - | - | 1% |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of passage days

Table E-18 Unimpaired and Impaired Spawning Days in December, Scenario D3

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 101 | 85 | 93 | 34 | 10 | 35 | 30 | 75 | 69 |

| Maximum Cumulative Volume Depletion (%) | Impaired Spawning Days | | | | | | | | |
|---|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 86 | 73 | 92 | 31 | 9 | 35 | 26 | 74 | 61 |
| 9% | 88 | 73 | 92 | 31 | 9 | 35 | 27 | 74 | 62 |
| 8% | 89 | 75 | 92 | 32 | 9 | 35 | 27 | 74 | 63 |
| 7% | 90 | 77 | 92 | 32 | 9 | 35 | 27 | 74 | 64 |
| 6% | 91 | 79 | 92 | 33 | 10 | 35 | 28 | 75 | 66 |
| 5% | 95 | 80 | 93 | 33 | 10 | 35 | 28 | 75 | 67 |
| 4% | 97 | 81 | 93 | 34 | 10 | 35 | 29 | 75 | 67 |
| 3% | 97 | 82 | 93 | 34 | 10 | 35 | 29 | 75 | 67 |
| 2% | 98 | 85 | 93 | 34 | 10 | 35 | 29 | 75 | 68 |
| 1% | 100 | 85 | 93 | 34 | 10 | 35 | 30 | 75 | 69 |
| 0% | 101 | 85 | 93 | 34 | 10 | 35 | 30 | 75 | 69 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Spawning Days Lost | | | | | | | | |
|---|--|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 15% | 14% | 1% | 9% | 10% | - | 13% | 1% | 12% |
| 9% | 13% | 14% | 1% | 9% | 10% | - | 10% | 1% | 10% |
| 8% | 12% | 12% | 1% | 6% | 10% | - | 10% | 1% | 9% |
| 7% | 11% | 9% | 1% | 6% | 10% | - | 10% | 1% | 7% |
| 6% | 10% | 7% | 1% | 3% | - | - | 7% | - | 4% |
| 5% | 6% | 6% | - | 3% | - | - | 7% | - | 3% |
| 4% | 4% | 5% | - | - | - | - | 3% | - | 3% |
| 3% | 4% | 4% | - | - | - | - | 3% | - | 3% |
| 2% | 3% | - | - | - | - | - | 3% | - | 1% |
| 1% | 1% | - | - | - | - | - | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of spawning days

Table E-19 Unimpaired and Impaired Passage Days in January, Scenario D3

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 104 | 187 | 241 | 53 | 105 | 86 | 25 | 165 | 102 |

| Maximum Cumulative Volume Depletion (%) | Impaired Passage Days | | | | | | | | |
|---|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 99 | 187 | 241 | 48 | 102 | 86 | 22 | 165 | 100 |
| 9% | 100 | 187 | 241 | 49 | 103 | 86 | 23 | 165 | 100 |
| 8% | 102 | 187 | 241 | 49 | 103 | 86 | 23 | 165 | 100 |
| 7% | 102 | 187 | 241 | 50 | 103 | 86 | 23 | 165 | 101 |
| 6% | 103 | 187 | 241 | 51 | 104 | 86 | 24 | 165 | 101 |
| 5% | 103 | 187 | 241 | 51 | 104 | 86 | 24 | 165 | 102 |
| 4% | 104 | 187 | 241 | 52 | 104 | 86 | 24 | 165 | 102 |
| 3% | 104 | 187 | 241 | 52 | 104 | 86 | 25 | 165 | 102 |
| 2% | 104 | 187 | 241 | 52 | 104 | 86 | 25 | 165 | 102 |
| 1% | 104 | 187 | 241 | 52 | 105 | 86 | 25 | 165 | 102 |
| 0% | 104 | 187 | 241 | 53 | 105 | 86 | 25 | 165 | 102 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Passage Days Lost | | | | | | | | |
|---|---|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 5% | - | - | 9% | 3% | - | 12% | - | 2% |
| 9% | 4% | - | - | 8% | 2% | - | 8% | - | 2% |
| 8% | 2% | - | - | 8% | 2% | - | 8% | - | 2% |
| 7% | 2% | - | - | 6% | 2% | - | 8% | - | 1% |
| 6% | 1% | - | - | 4% | 1% | - | 4% | - | 1% |
| 5% | 1% | - | - | 4% | 1% | - | 4% | - | - |
| 4% | - | - | - | 2% | 1% | - | 4% | - | - |
| 3% | - | - | - | 2% | 1% | - | - | - | - |
| 2% | - | - | - | 2% | 1% | - | - | - | - |
| 1% | - | - | - | 2% | - | - | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of passage days

Table E-20 Unimpaired and Impaired Spawning Days in January, Scenario D3

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 87 | 68 | 73 | 29 | 6 | 30 | 22 | 136 | 74 |

| Maximum Cumulative Volume Depletion (%) | Impaired Spawning Days | | | | | | | | |
|---|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 82 | 66 | 72 | 26 | 5 | 28 | 19 | 135 | 71 |
| 9% | 83 | 66 | 72 | 26 | 5 | 28 | 19 | 135 | 72 |
| 8% | 84 | 67 | 72 | 26 | 5 | 29 | 20 | 135 | 72 |
| 7% | 85 | 67 | 73 | 27 | 5 | 29 | 20 | 136 | 72 |
| 6% | 86 | 67 | 73 | 27 | 5 | 29 | 20 | 136 | 73 |
| 5% | 86 | 67 | 73 | 27 | 5 | 29 | 21 | 136 | 73 |
| 4% | 87 | 67 | 73 | 28 | 5 | 29 | 21 | 136 | 74 |
| 3% | 87 | 68 | 73 | 28 | 6 | 29 | 21 | 136 | 74 |
| 2% | 87 | 68 | 73 | 28 | 6 | 29 | 22 | 136 | 74 |
| 1% | 87 | 68 | 73 | 29 | 6 | 29 | 22 | 136 | 74 |
| 0% | 87 | 68 | 73 | 29 | 6 | 30 | 22 | 136 | 74 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Spawning Days Lost | | | | | | | | |
|---|--|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 6% | 3% | 1% | 10% | 17% | 7% | 14% | 1% | 4% |
| 9% | 5% | 3% | 1% | 10% | 17% | 7% | 14% | 1% | 3% |
| 8% | 3% | 1% | 1% | 10% | 17% | 3% | 9% | 1% | 3% |
| 7% | 2% | 1% | - | 7% | 17% | 3% | 9% | - | 3% |
| 6% | 1% | 1% | - | 7% | 17% | 3% | 9% | - | 1% |
| 5% | 1% | 1% | - | 7% | 17% | 3% | 5% | - | 1% |
| 4% | - | 1% | - | 3% | 17% | 3% | 5% | - | - |
| 3% | - | - | - | 3% | - | 3% | 5% | - | - |
| 2% | - | - | - | 3% | - | 3% | - | - | - |
| 1% | - | - | - | - | - | 3% | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of spawning days

Table E-21 Unimpaired and Impaired Passage Days in February, Scenario D3

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 105 | 176 | 262 | 43 | 112 | 82 | 31 | 178 | 119 |

| Maximum Cumulative Volume Depletion (%) | Impaired Passage Days | | | | | | | | |
|---|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 104 | 176 | 262 | 40 | 109 | 81 | 30 | 178 | 118 |
| 9% | 104 | 176 | 262 | 40 | 110 | 82 | 31 | 178 | 118 |
| 8% | 104 | 176 | 262 | 41 | 110 | 82 | 31 | 178 | 118 |
| 7% | 105 | 176 | 262 | 42 | 110 | 82 | 31 | 178 | 118 |
| 6% | 105 | 176 | 262 | 42 | 111 | 82 | 31 | 178 | 118 |
| 5% | 105 | 176 | 262 | 42 | 111 | 82 | 31 | 178 | 119 |
| 4% | 105 | 176 | 262 | 42 | 111 | 82 | 31 | 178 | 119 |
| 3% | 105 | 176 | 262 | 42 | 111 | 82 | 31 | 178 | 119 |
| 2% | 105 | 176 | 262 | 43 | 111 | 82 | 31 | 178 | 119 |
| 1% | 105 | 176 | 262 | 43 | 111 | 82 | 31 | 178 | 119 |
| 0% | 105 | 176 | 262 | 43 | 112 | 82 | 31 | 178 | 119 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Passage Days Lost | | | | | | | | |
|---|---|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 1% | - | - | 7% | 3% | 1% | 3% | - | 1% |
| 9% | 1% | - | - | 7% | 2% | - | - | - | 1% |
| 8% | 1% | - | - | 5% | 2% | - | - | - | 1% |
| 7% | - | - | - | 2% | 2% | - | - | - | 1% |
| 6% | - | - | - | 2% | 1% | - | - | - | 1% |
| 5% | - | - | - | 2% | 1% | - | - | - | - |
| 4% | - | - | - | 2% | 1% | - | - | - | - |
| 3% | - | - | - | 2% | 1% | - | - | - | - |
| 2% | - | - | - | - | 1% | - | - | - | - |
| 1% | - | - | - | - | 1% | - | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of passage days

Table E-22 Unimpaired and Impaired Spawning Days in February, Scenario D3

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 93 | 71 | 80 | 17 | 5 | 24 | 25 | 138 | 79 |

| Maximum Cumulative Volume Depletion (%) | Impaired Spawning Days | | | | | | | | |
|---|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 92 | 70 | 80 | 16 | 5 | 23 | 24 | 138 | 78 |
| 9% | 92 | 70 | 80 | 16 | 5 | 23 | 25 | 138 | 78 |
| 8% | 92 | 70 | 80 | 16 | 5 | 23 | 25 | 138 | 78 |
| 7% | 92 | 70 | 80 | 16 | 5 | 23 | 25 | 138 | 78 |
| 6% | 93 | 71 | 80 | 16 | 5 | 23 | 25 | 138 | 78 |
| 5% | 93 | 71 | 80 | 17 | 5 | 23 | 25 | 138 | 78 |
| 4% | 93 | 71 | 80 | 17 | 5 | 23 | 25 | 138 | 79 |
| 3% | 93 | 71 | 80 | 17 | 5 | 24 | 25 | 138 | 79 |
| 2% | 93 | 71 | 80 | 17 | 5 | 24 | 25 | 138 | 79 |
| 1% | 93 | 71 | 80 | 17 | 5 | 24 | 25 | 138 | 79 |
| 0% | 93 | 71 | 80 | 17 | 5 | 24 | 25 | 138 | 79 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Spawning Days Lost | | | | | | | | |
|---|--|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 1% | 1% | - | 6% | - | 4% | 4% | - | 1% |
| 9% | 1% | 1% | - | 6% | - | 4% | - | - | 1% |
| 8% | 1% | 1% | - | 6% | - | 4% | - | - | 1% |
| 7% | 1% | 1% | - | 6% | - | 4% | - | - | 1% |
| 6% | - | - | - | 6% | - | 4% | - | - | 1% |
| 5% | - | - | - | - | - | 4% | - | - | 1% |
| 4% | - | - | - | - | - | 4% | - | - | - |
| 3% | - | - | - | - | - | - | - | - | - |
| 2% | - | - | - | - | - | - | - | - | - |
| 1% | - | - | - | - | - | - | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of spawning days

Table E-23 Unimpaired and Impaired Passage Days in March, Scenario D3

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | 120 | 200 | 283 | 52 | 118 | 97 | 36 | 167 |

| Maximum Cumulative Volume Depletion (%) | Impaired Passage Days | | | | | | | | |
|---|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 120 | 200 | 283 | 52 | 118 | 97 | 36 | 167 | 115 |
| 9% | 120 | 200 | 283 | 52 | 118 | 97 | 36 | 167 | 115 |
| 8% | 120 | 200 | 283 | 52 | 118 | 97 | 36 | 167 | 115 |
| 7% | 120 | 200 | 283 | 52 | 118 | 97 | 36 | 167 | 115 |
| 6% | 120 | 200 | 283 | 52 | 118 | 97 | 36 | 167 | 115 |
| 5% | 120 | 200 | 283 | 52 | 118 | 97 | 36 | 167 | 115 |
| 4% | 120 | 200 | 283 | 52 | 118 | 97 | 36 | 167 | 115 |
| 3% | 120 | 200 | 283 | 52 | 118 | 97 | 36 | 167 | 115 |
| 2% | 120 | 200 | 283 | 52 | 118 | 97 | 36 | 167 | 115 |
| 1% | 120 | 200 | 283 | 52 | 118 | 97 | 36 | 167 | 115 |
| 0% | 120 | 200 | 283 | 52 | 118 | 97 | 36 | 167 | 115 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Passage Days Lost | | | | | | | | |
|---|---|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | - | - | - | - | - | - | - | - | - |
| 9% | - | - | - | - | - | - | - | - | - |
| 8% | - | - | - | - | - | - | - | - | - |
| 7% | - | - | - | - | - | - | - | - | - |
| 6% | - | - | - | - | - | - | - | - | - |
| 5% | - | - | - | - | - | - | - | - | - |
| 4% | - | - | - | - | - | - | - | - | - |
| 3% | - | - | - | - | - | - | - | - | - |
| 2% | - | - | - | - | - | - | - | - | - |
| 1% | - | - | - | - | - | - | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of passage days

Table E-24 Unimpaired and Impaired Spawning Days in March, Scenario D3

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 102 | 75 | 82 | 24 | 4 | 29 | 29 | 140 | 81 |

| Maximum Cumulative Volume Depletion (%) | Impaired Spawning Days | | | | | | | | |
|---|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 102 | 75 | 82 | 24 | 4 | 29 | 29 | 140 | 81 |
| 9% | 102 | 75 | 82 | 24 | 4 | 29 | 29 | 140 | 81 |
| 8% | 102 | 75 | 82 | 24 | 4 | 29 | 29 | 140 | 81 |
| 7% | 102 | 75 | 82 | 24 | 4 | 29 | 29 | 140 | 81 |
| 6% | 102 | 75 | 82 | 24 | 4 | 29 | 29 | 140 | 81 |
| 5% | 102 | 75 | 82 | 24 | 4 | 29 | 29 | 140 | 81 |
| 4% | 102 | 75 | 82 | 24 | 4 | 29 | 29 | 140 | 81 |
| 3% | 102 | 75 | 82 | 24 | 4 | 29 | 29 | 140 | 81 |
| 2% | 102 | 75 | 82 | 24 | 4 | 29 | 29 | 140 | 81 |
| 1% | 102 | 75 | 82 | 24 | 4 | 29 | 29 | 140 | 81 |
| 0% | 102 | 75 | 82 | 24 | 4 | 29 | 29 | 140 | 81 |

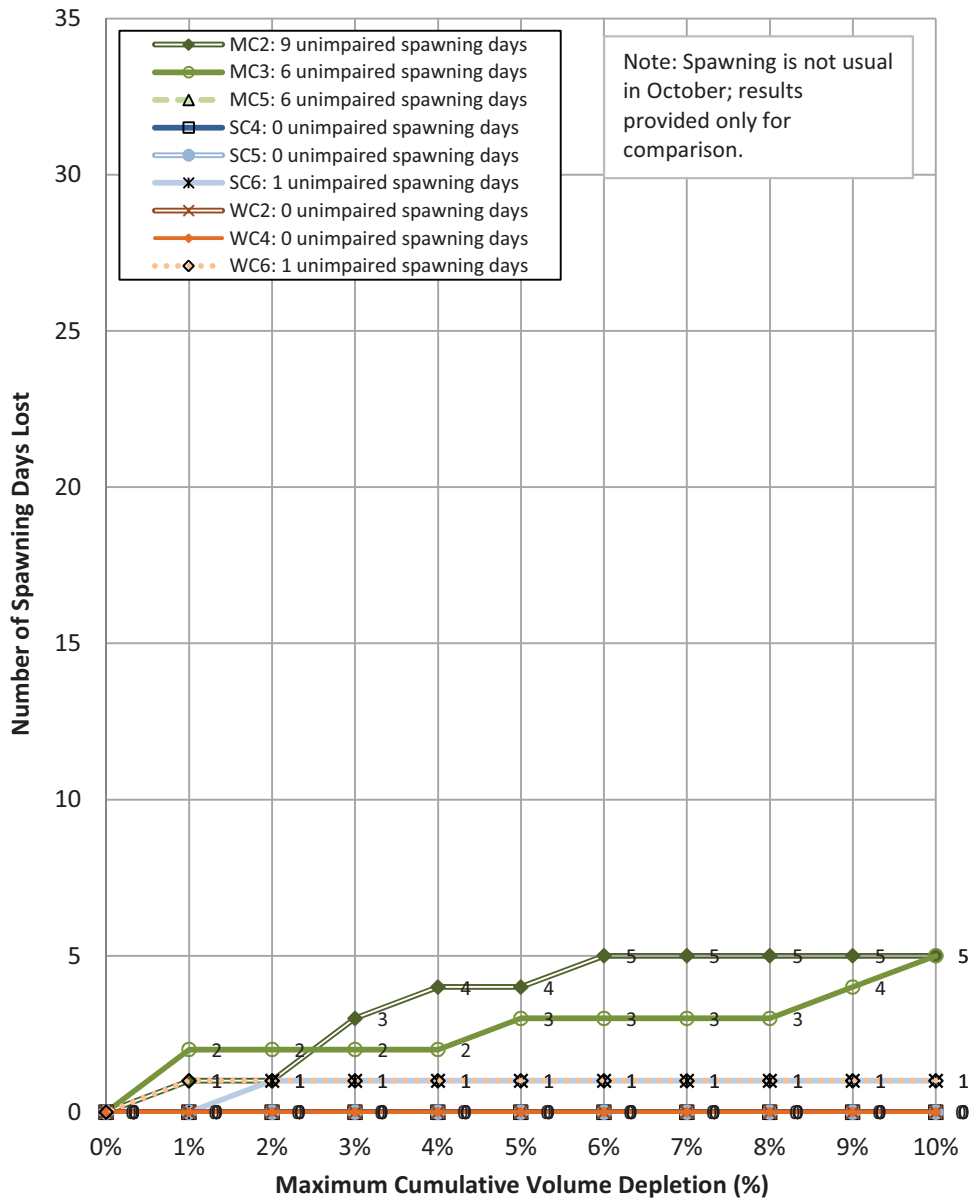
| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Spawning Days Lost | | | | | | | | |
|---|--|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | - | - | - | - | - | - | - | - | - |
| 9% | - | - | - | - | - | - | - | - | - |
| 8% | - | - | - | - | - | - | - | - | - |
| 7% | - | - | - | - | - | - | - | - | - |
| 6% | - | - | - | - | - | - | - | - | - |
| 5% | - | - | - | - | - | - | - | - | - |
| 4% | - | - | - | - | - | - | - | - | - |
| 3% | - | - | - | - | - | - | - | - | - |
| 2% | - | - | - | - | - | - | - | - | - |
| 1% | - | - | - | - | - | - | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

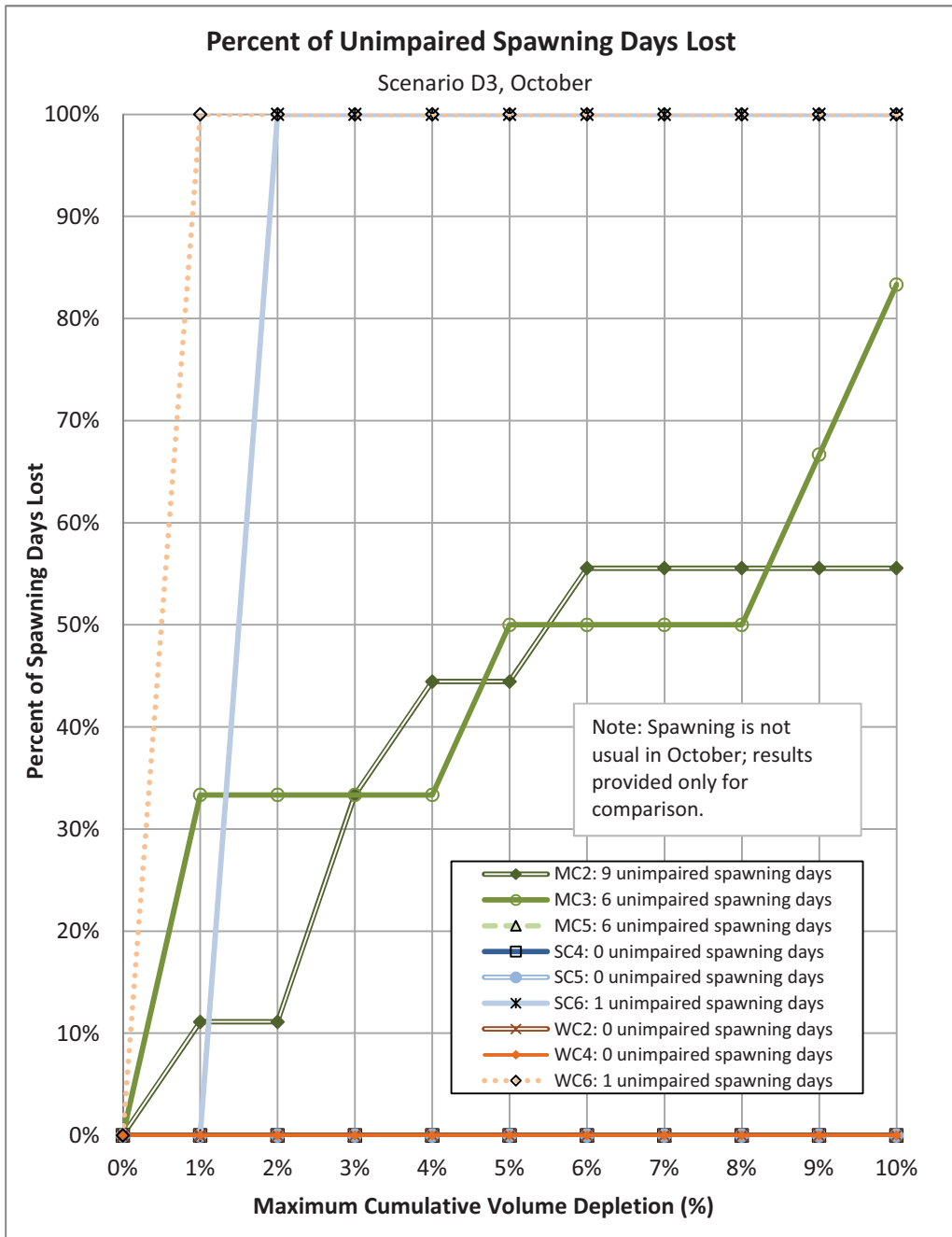
Note:

'-' indicates no loss of spawning days

Number of Unimpaired Spawning Days Lost

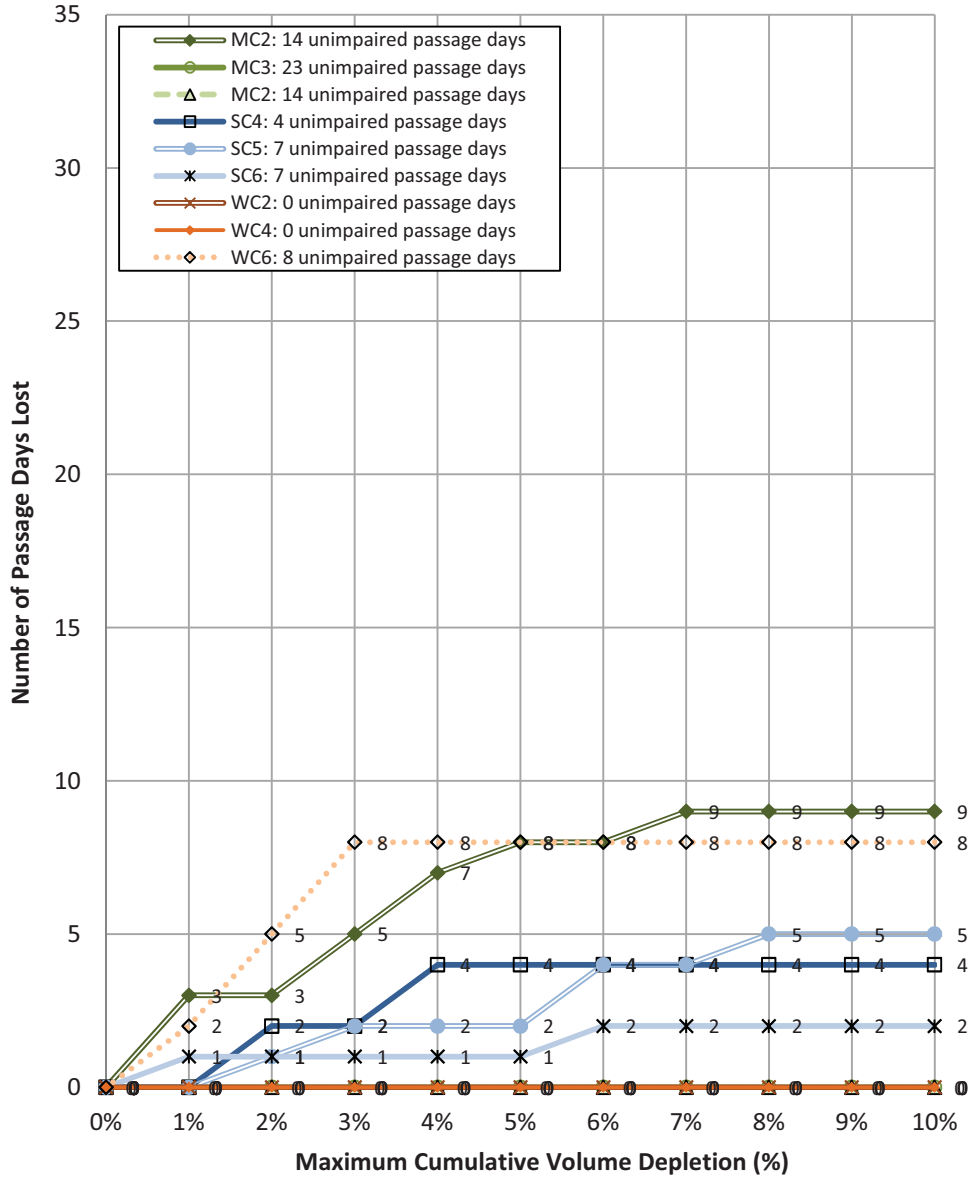
Scenario D3, October

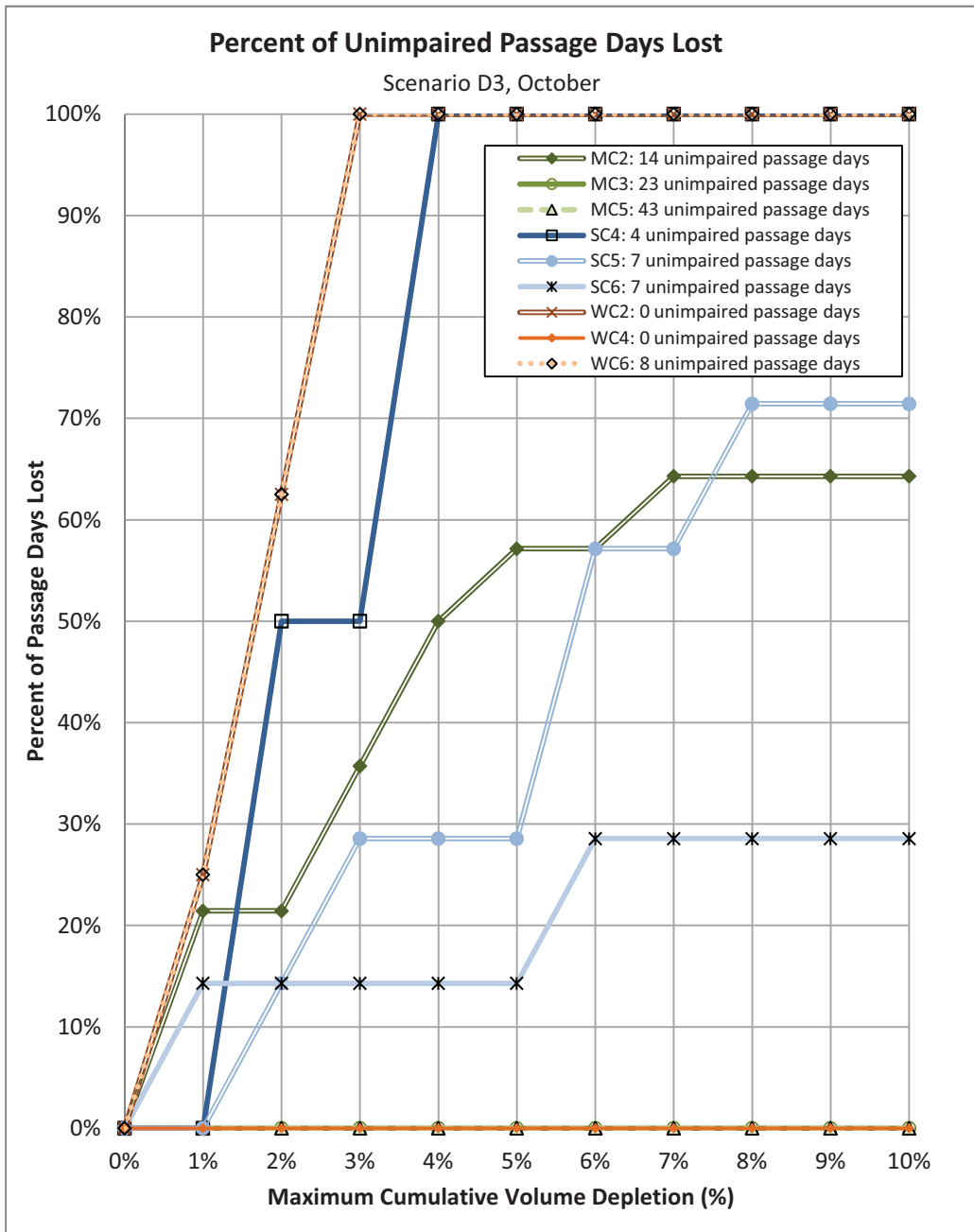




Number of Unimpaired Passage Days Lost

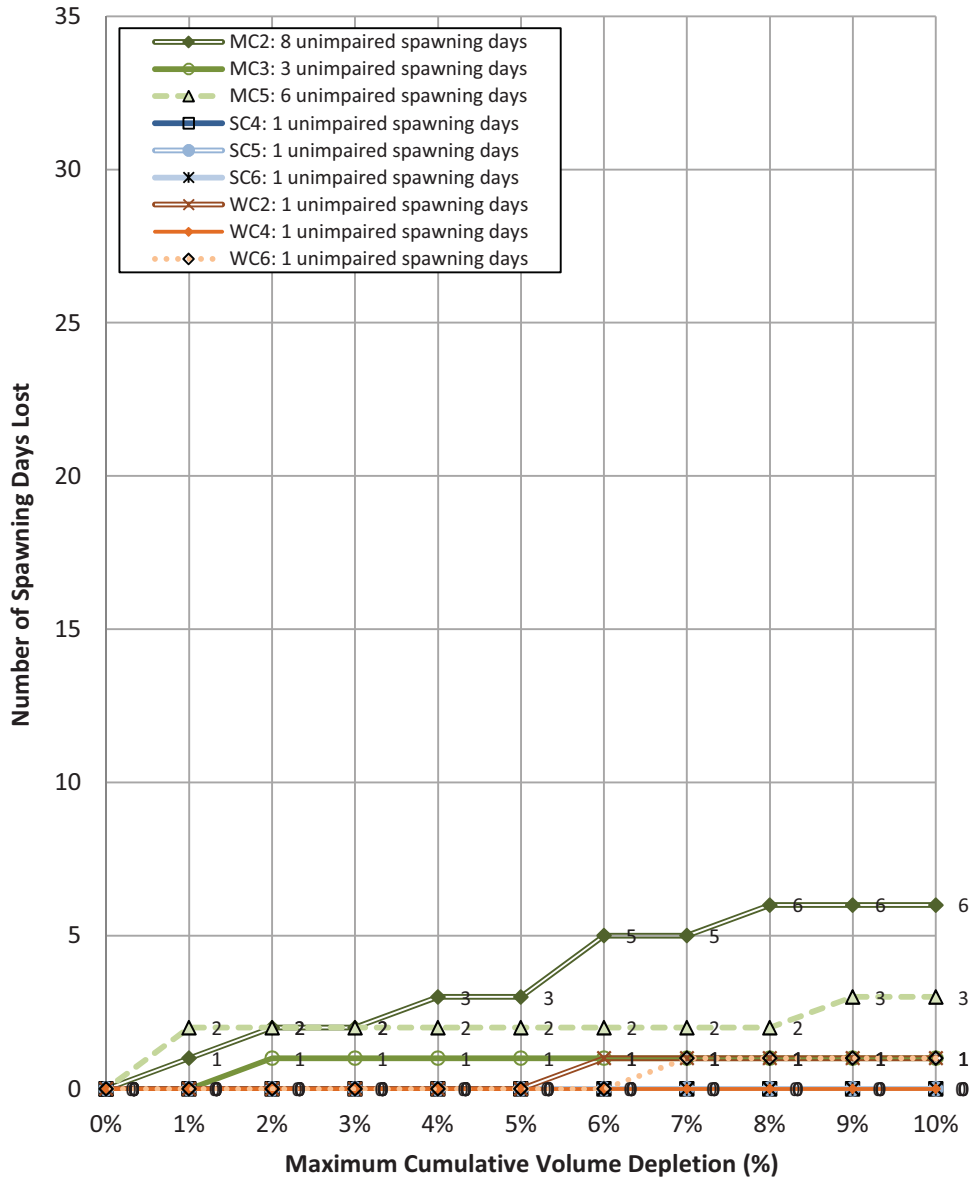
Scenario D3, October

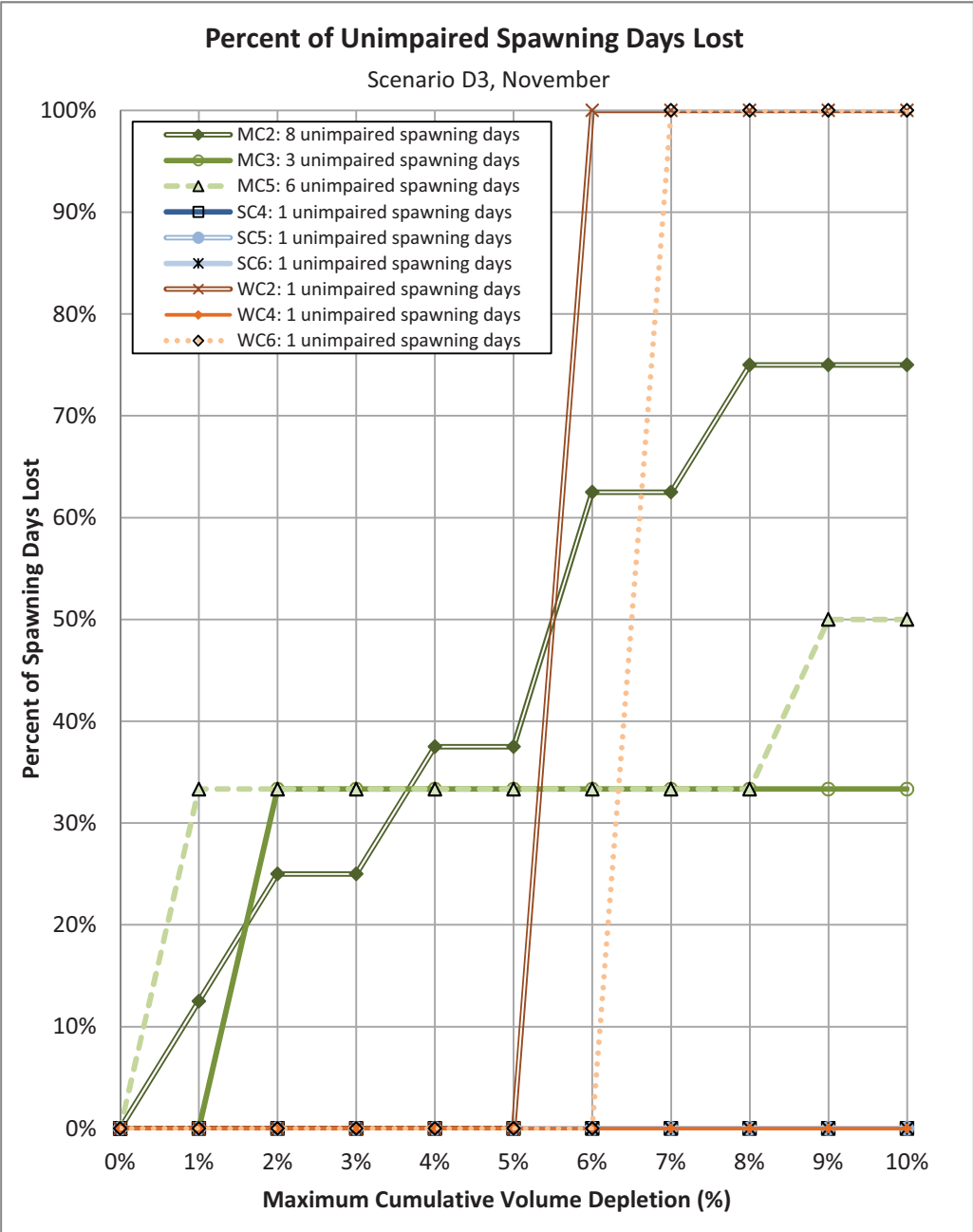




Number of Unimpaired Spawning Days Lost

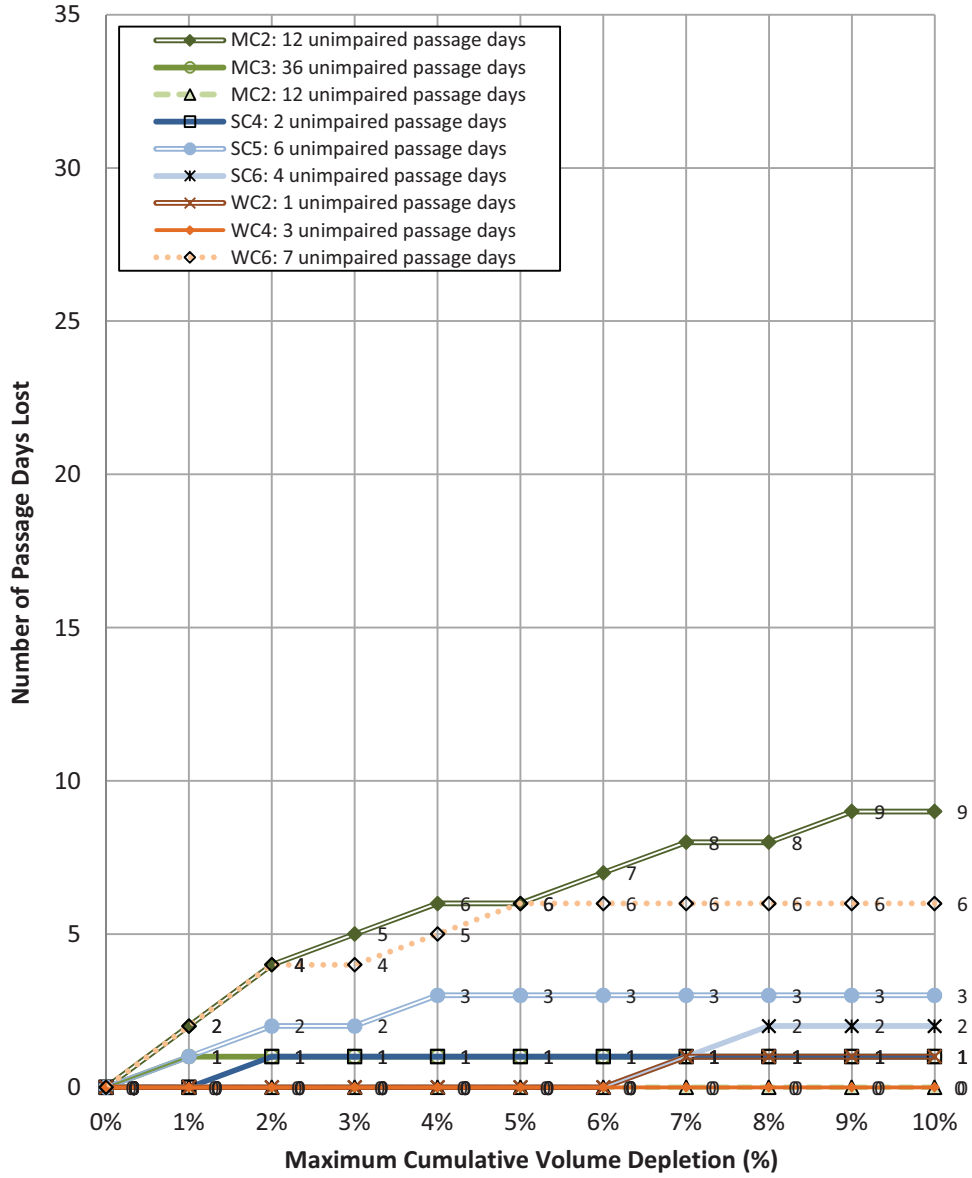
Scenario D3, November

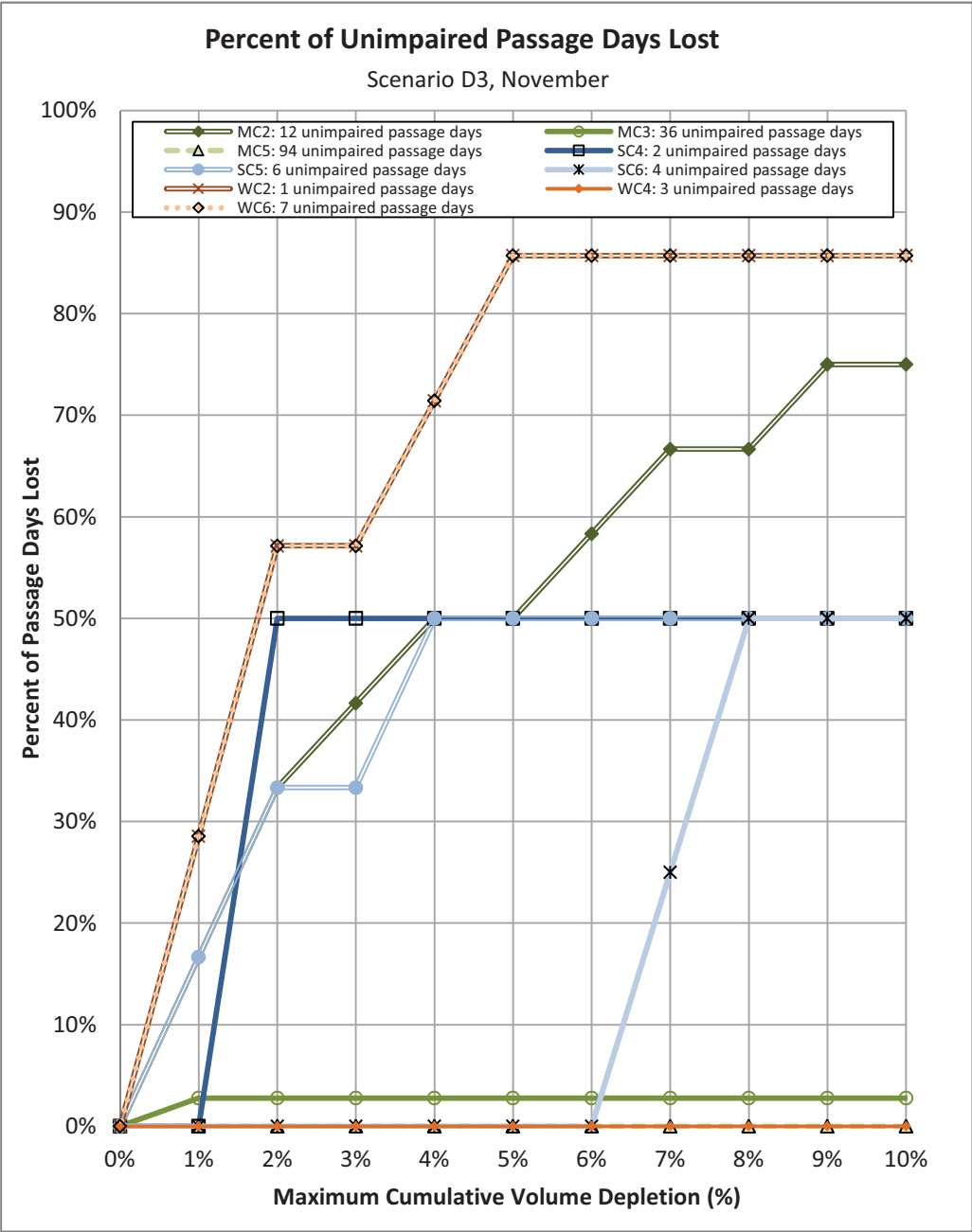




Number of Unimpaired Passage Days Lost

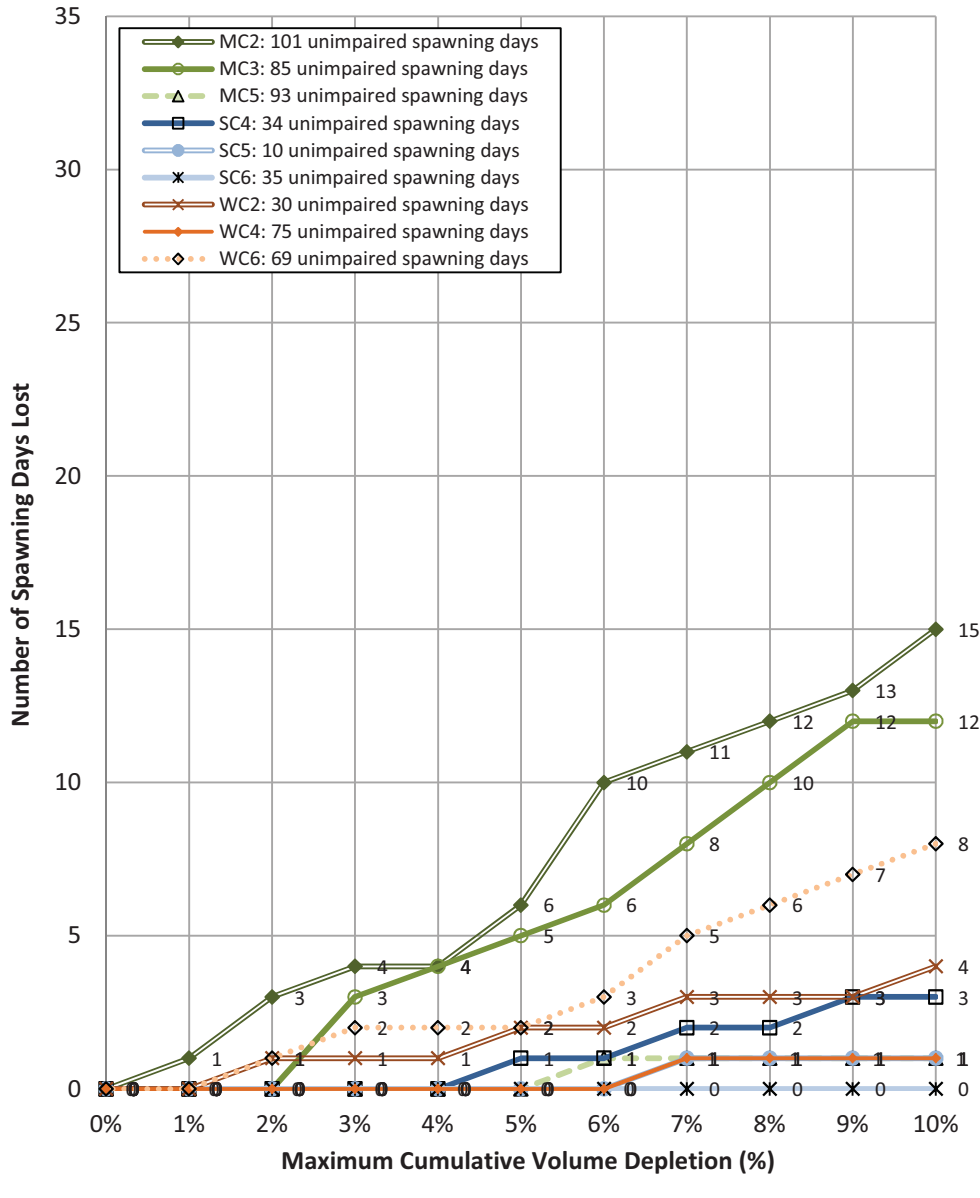
Scenario D3, November





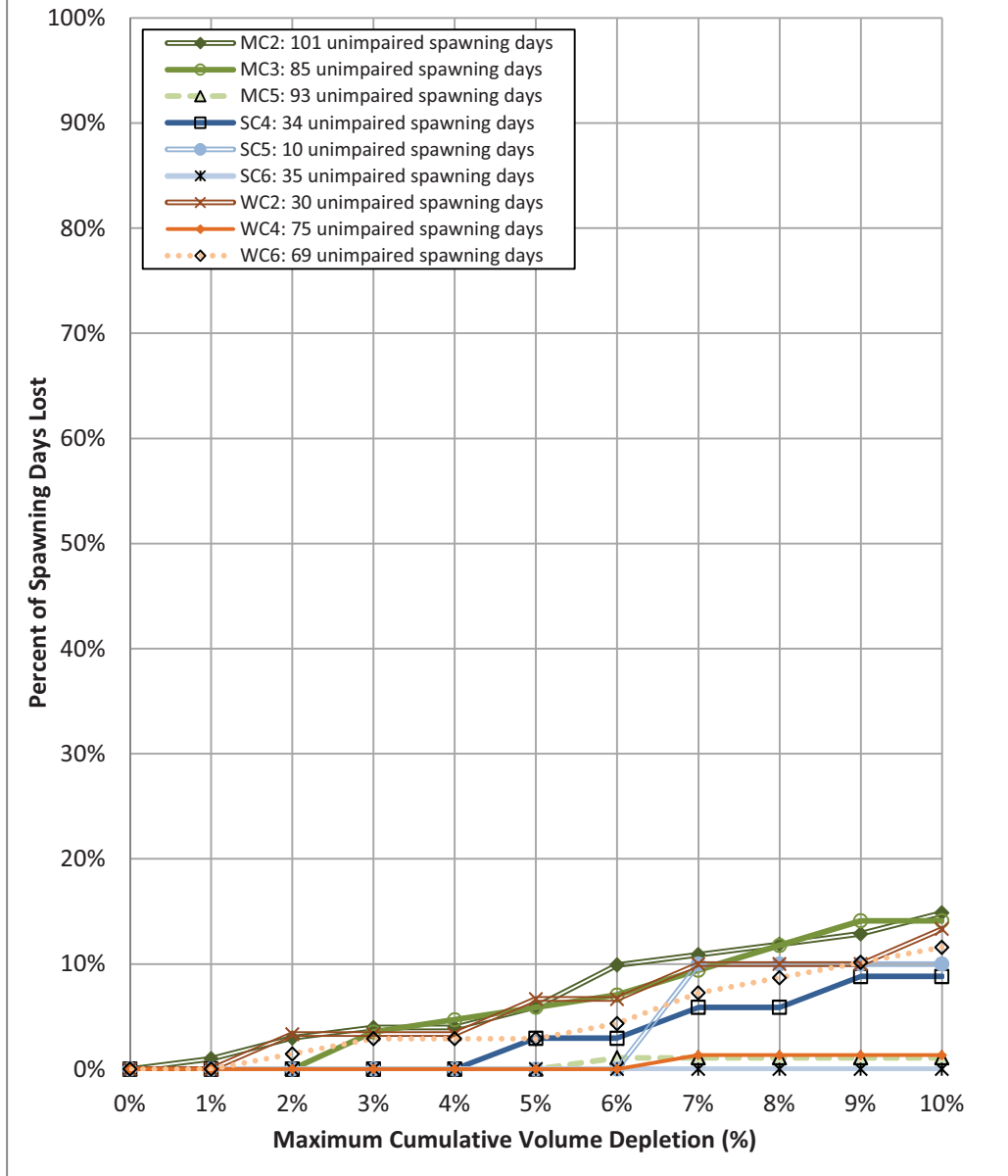
Number of Unimpaired Spawning Days Lost

Scenario D3, December



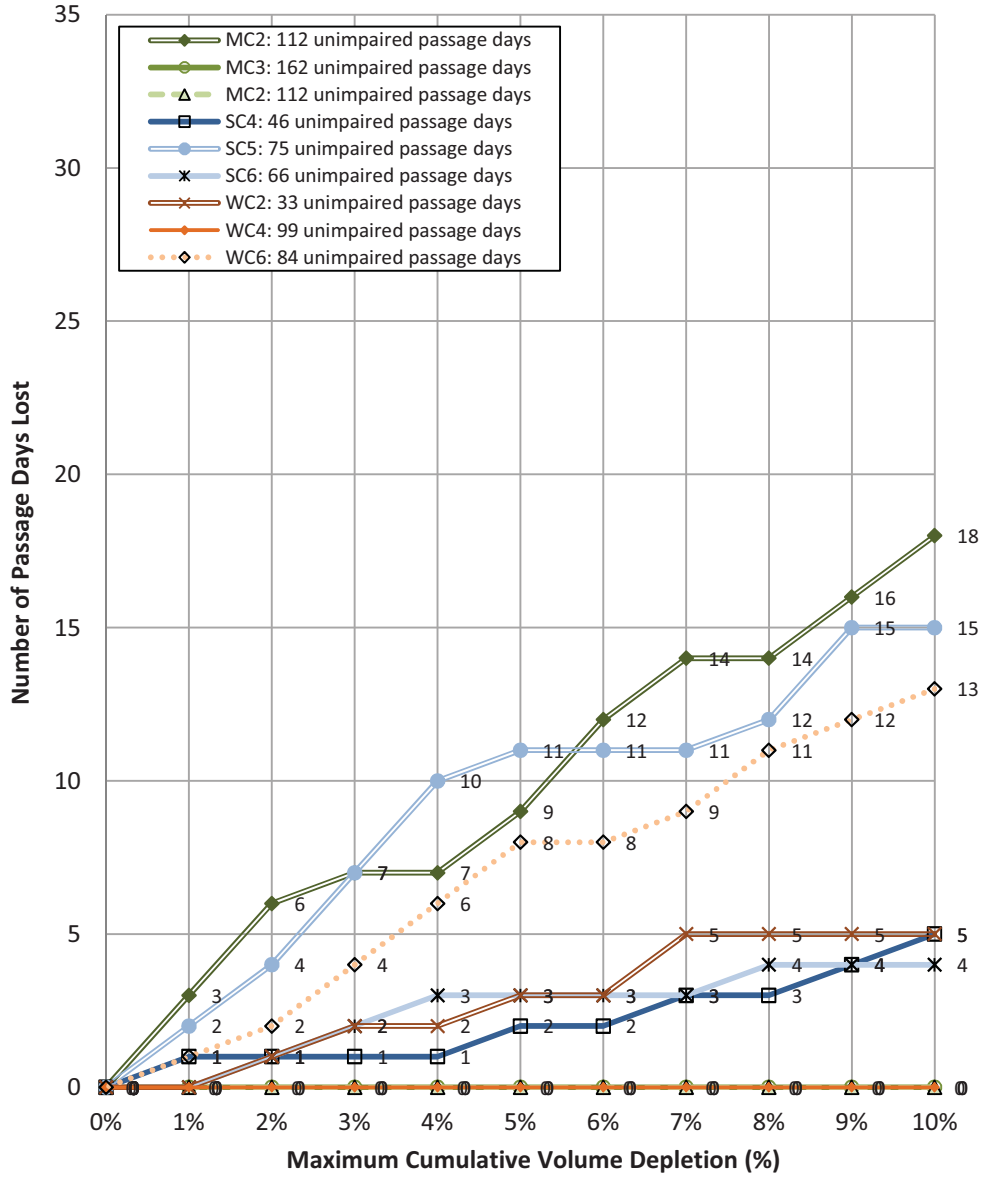
Percent of Unimpaired Spawning Days Lost

Scenario D3, December



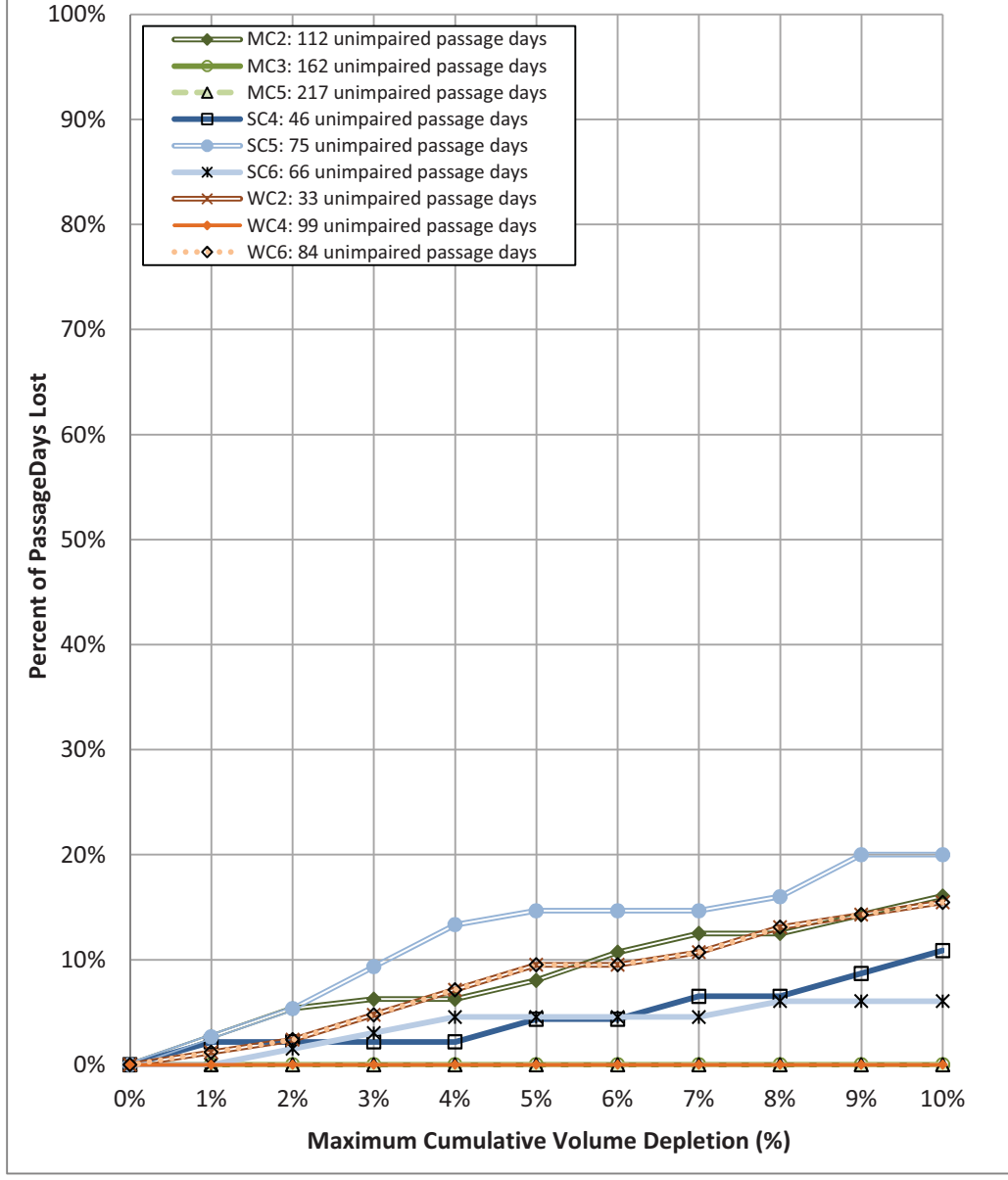
Number of Unimpaired Passage Days Lost

Scenario D3, December



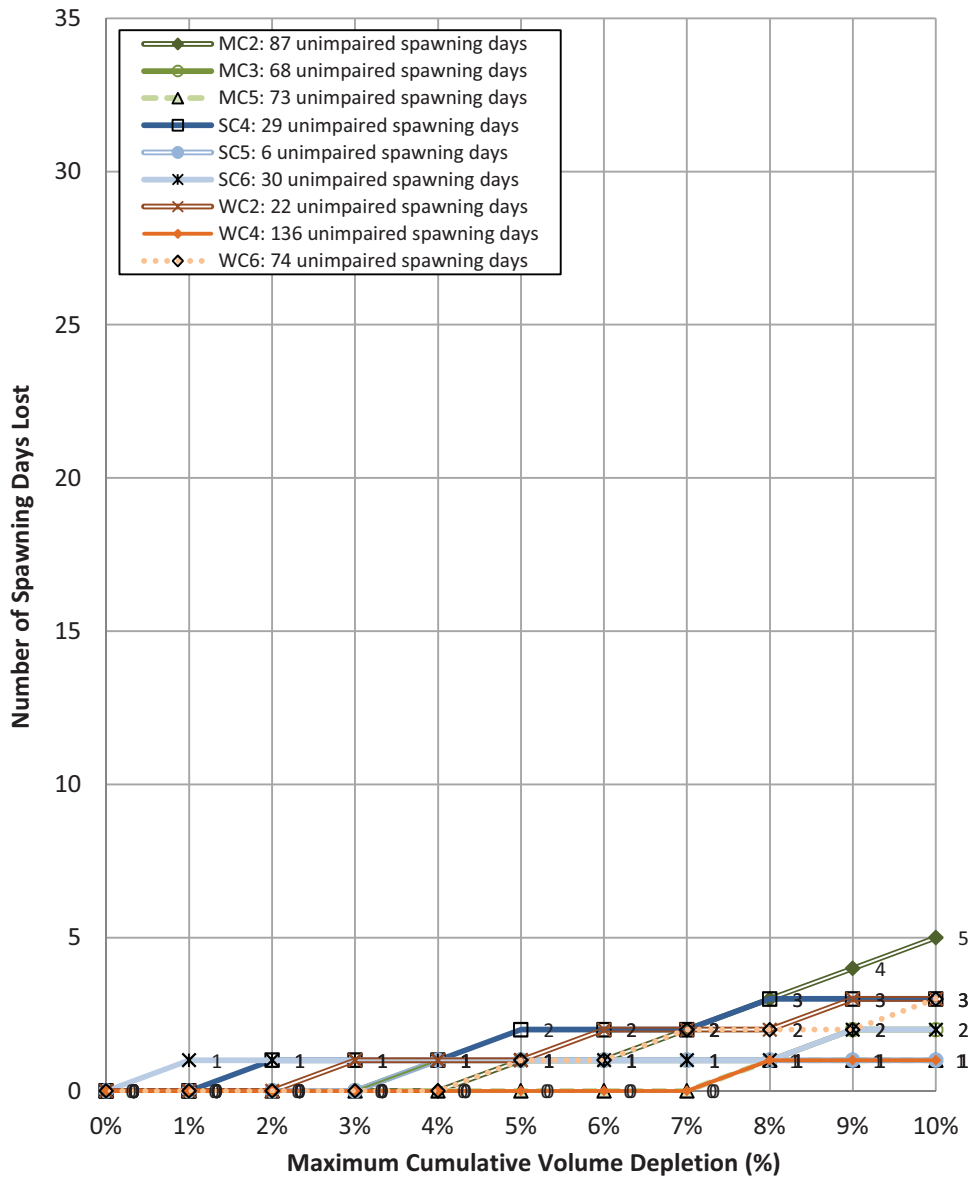
Percent of Unimpaired Passage Days Lost

Scenario D3, December



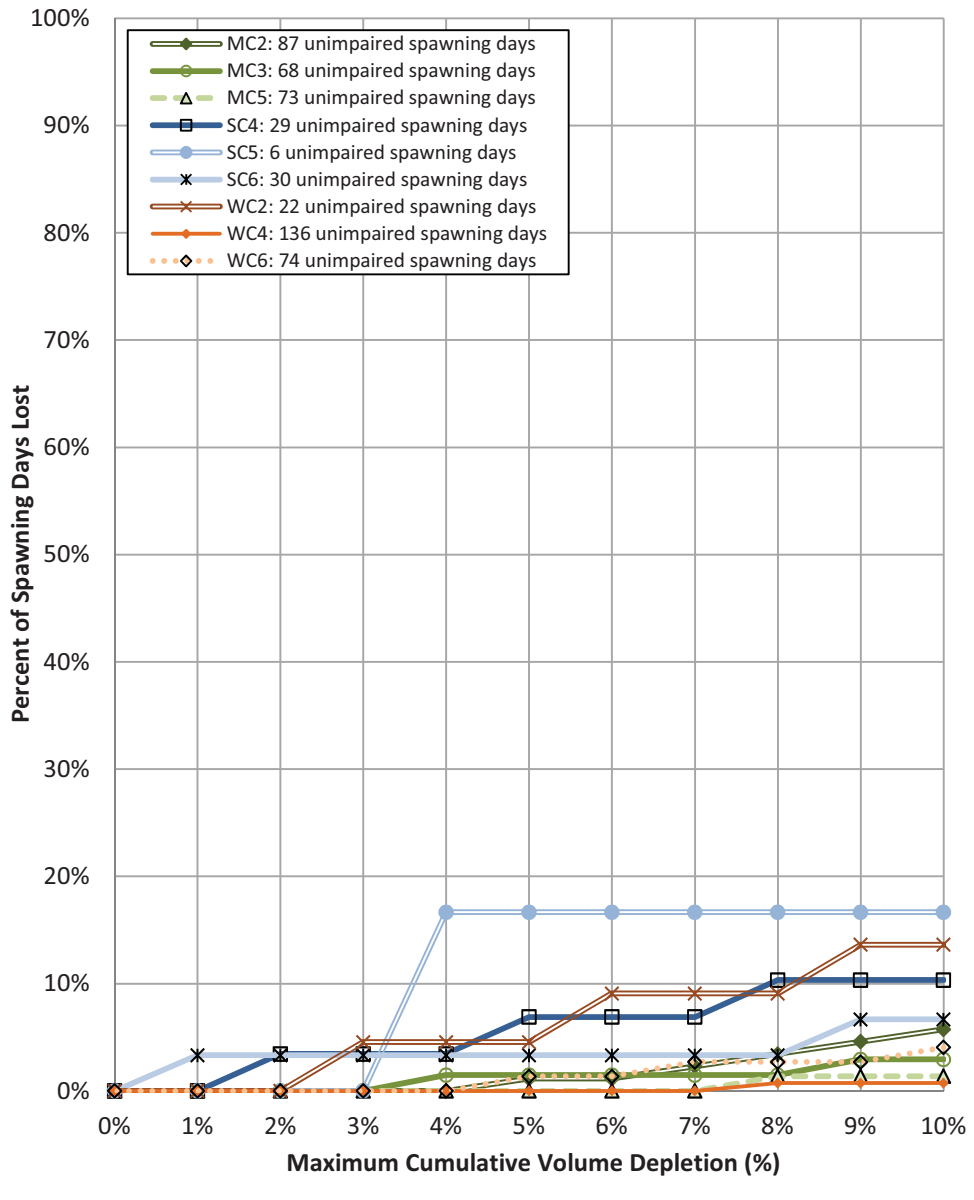
Number of Unimpaired Spawning Days Lost

Scenario D3, January



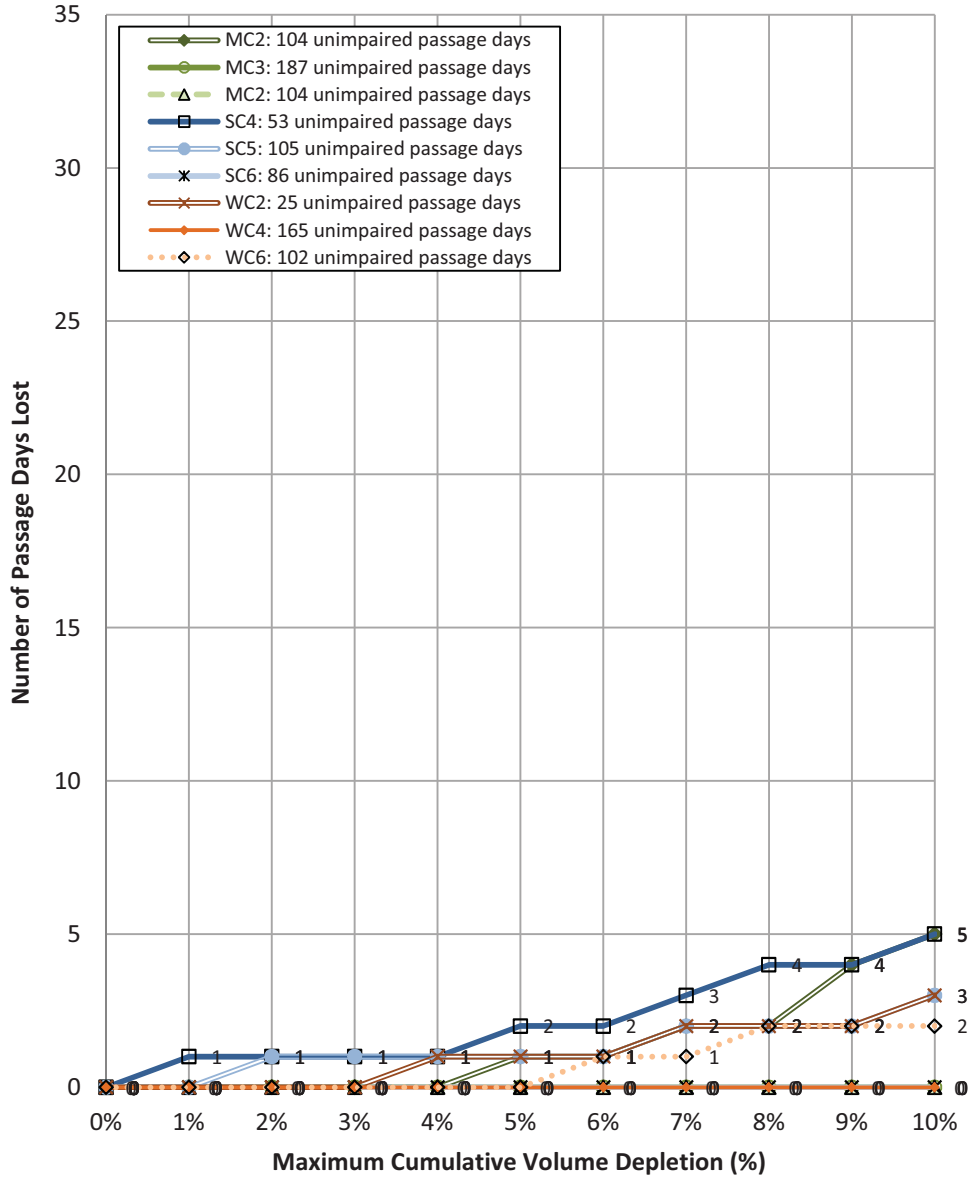
Percent of Unimpaired Spawning Days Lost

Scenario D3, January



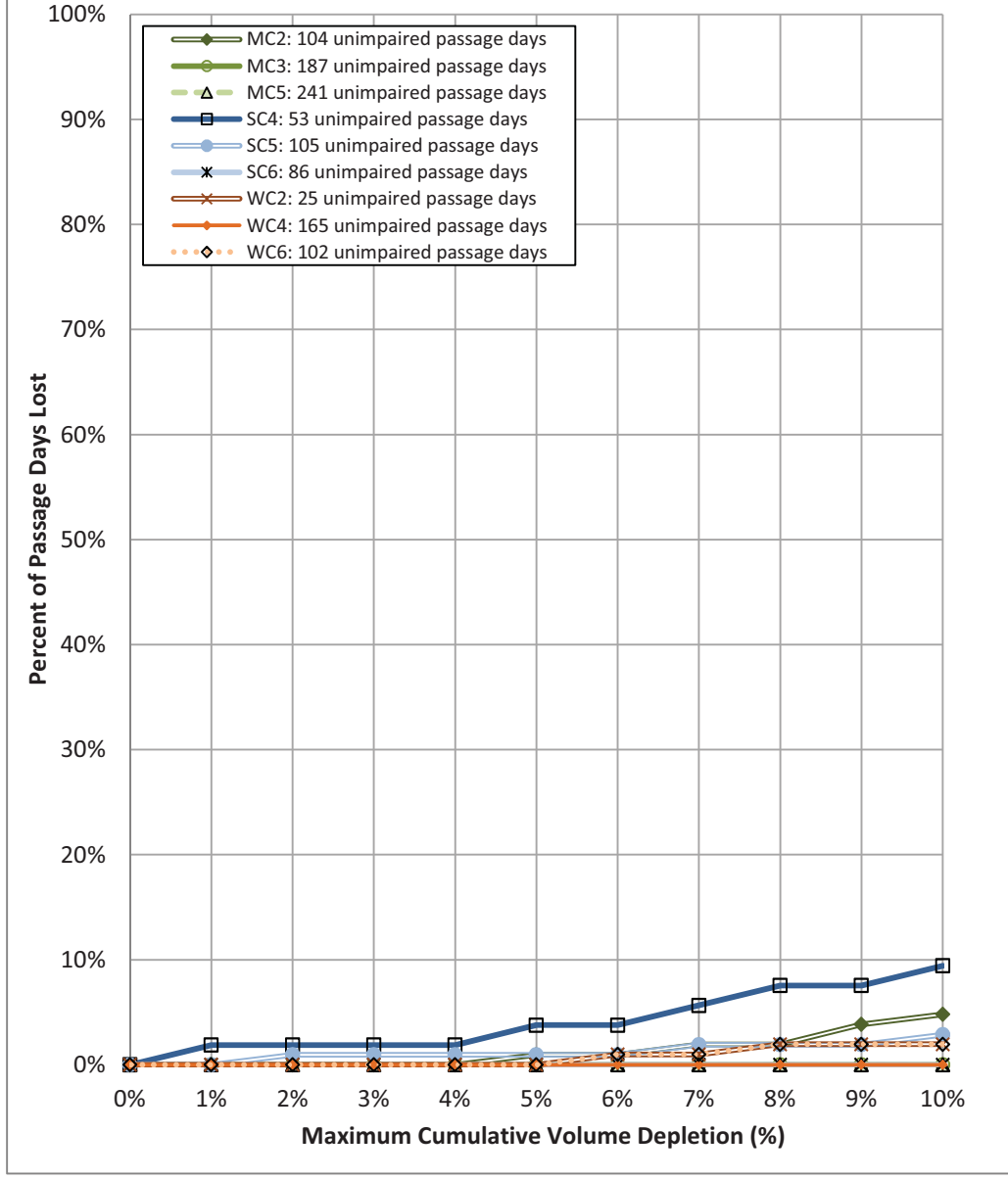
Number of Unimpaired Passage Days Lost

Scenario D3, January



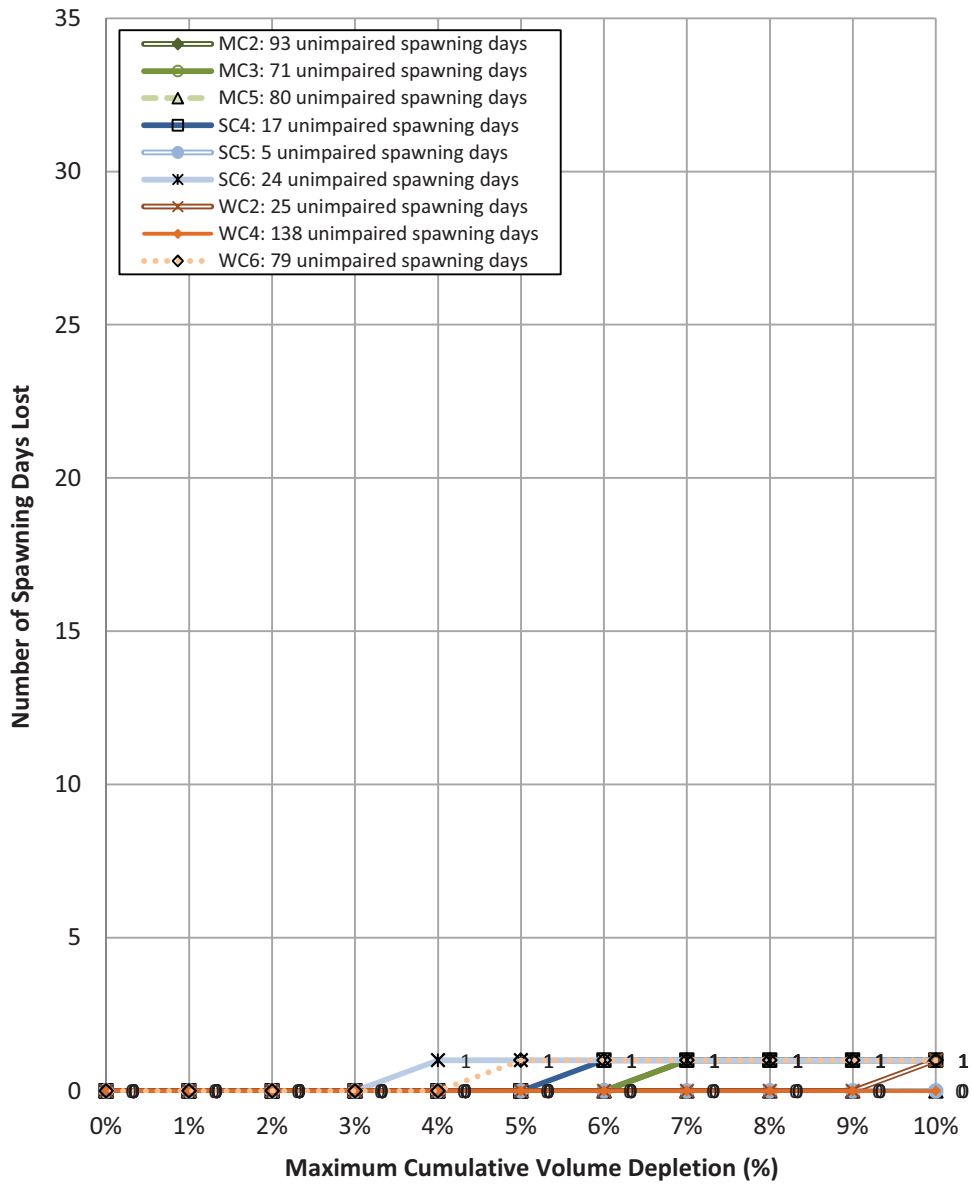
Percent of Unimpaired Passage Days Lost

Scenario D3, January



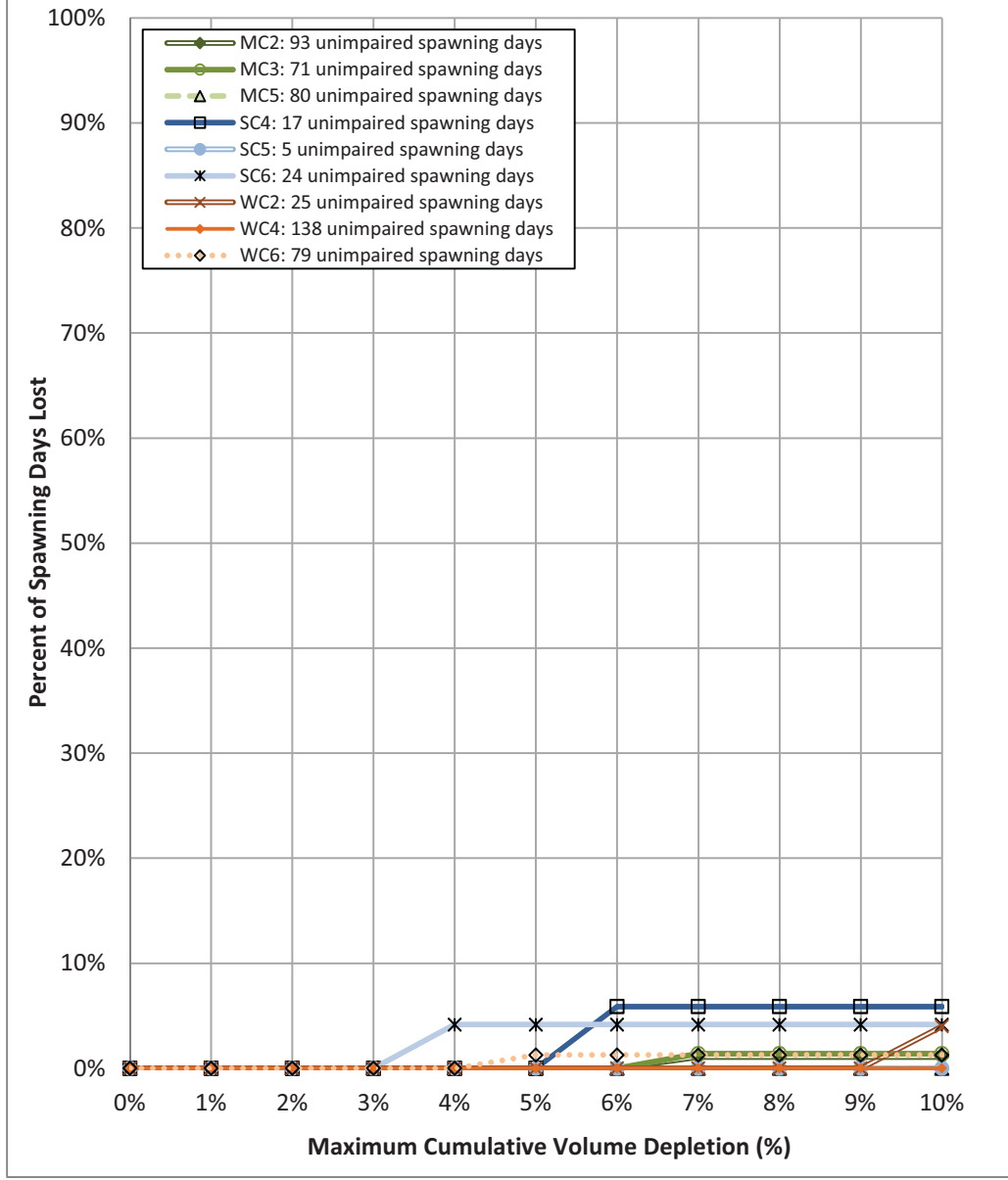
Number of Unimpaired Spawning Days Lost

Scenario D3, February



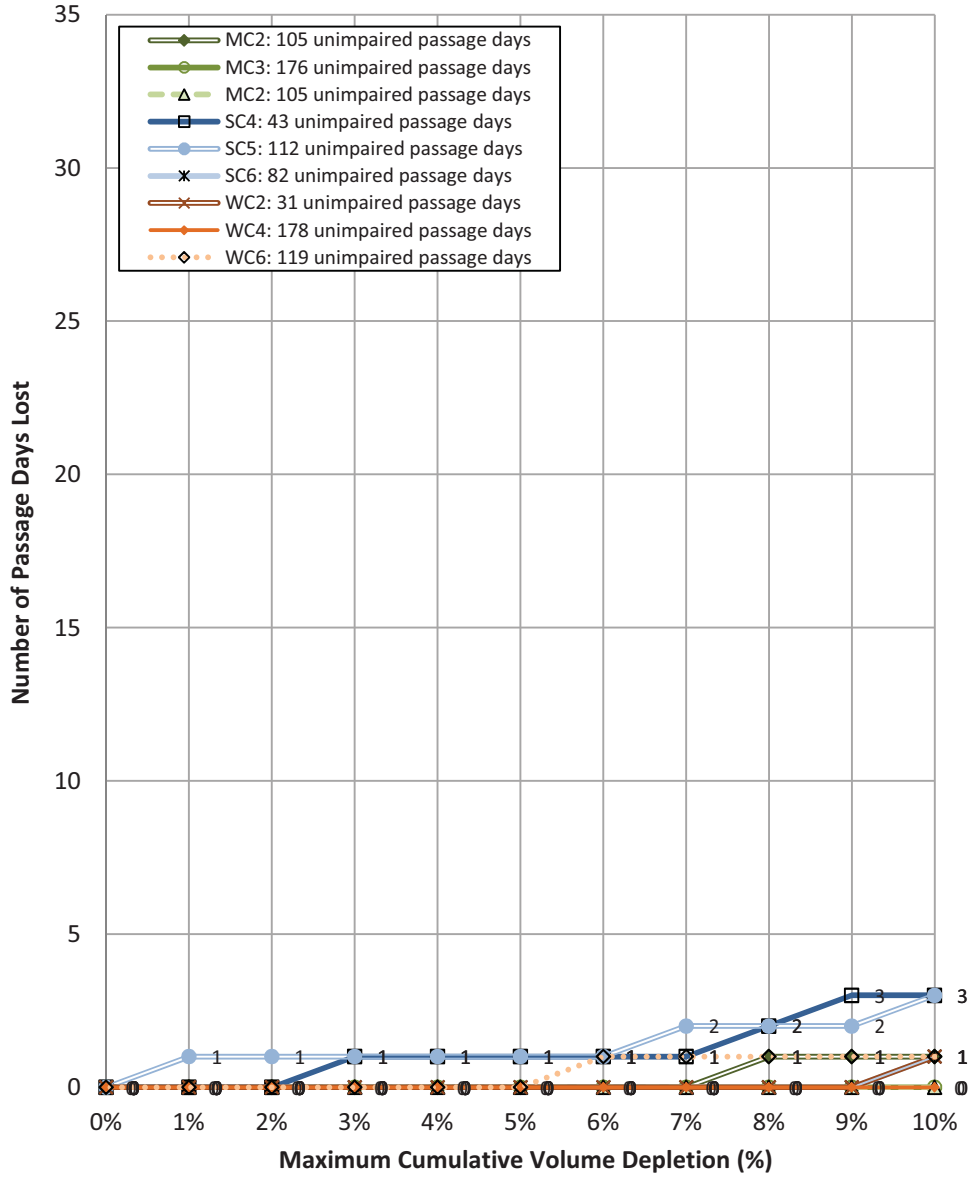
Percent of Unimpaired Spawning Days Lost

Scenario D3, February



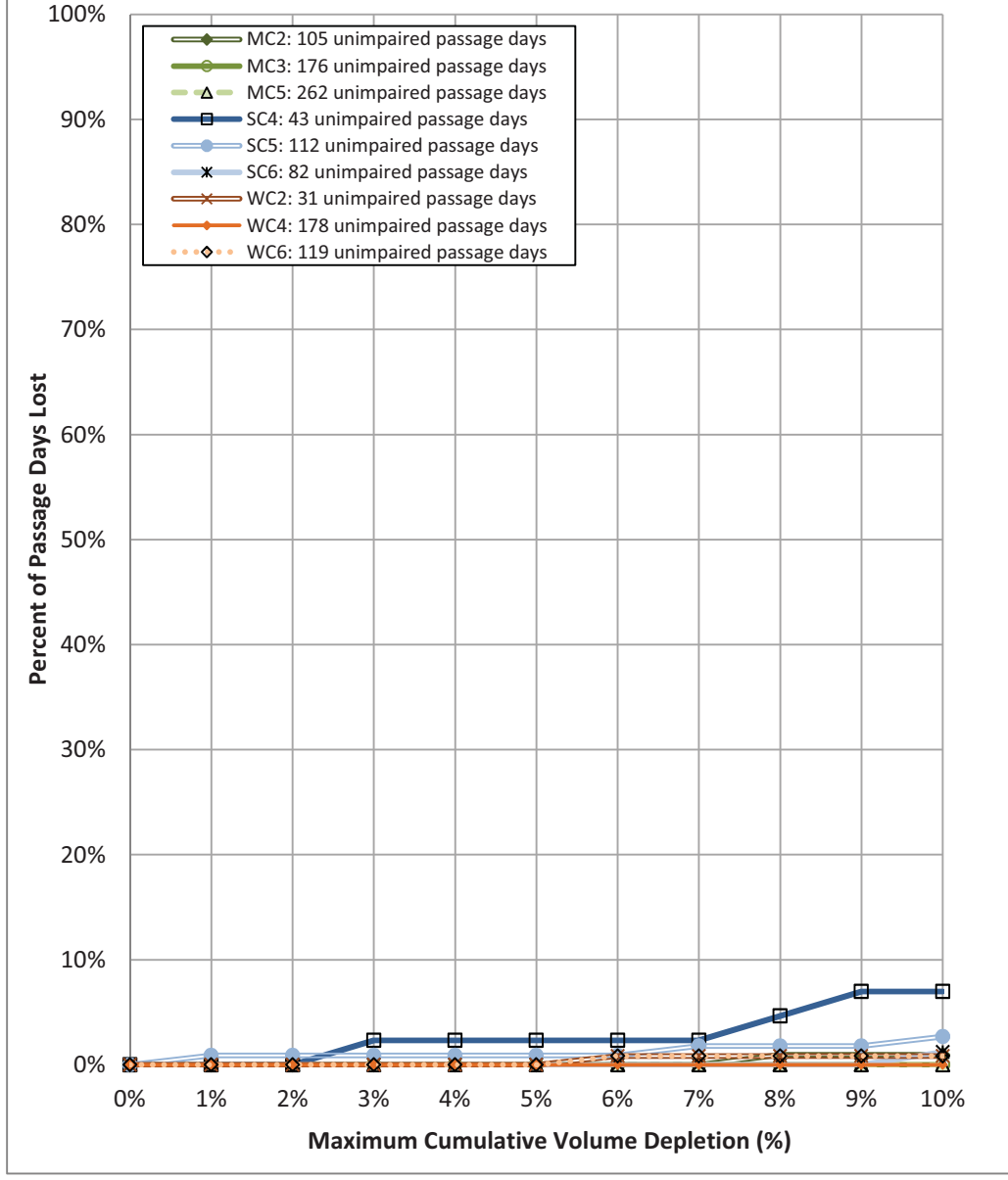
Number of Unimpaired Passage Days Lost

Scenario D3, February



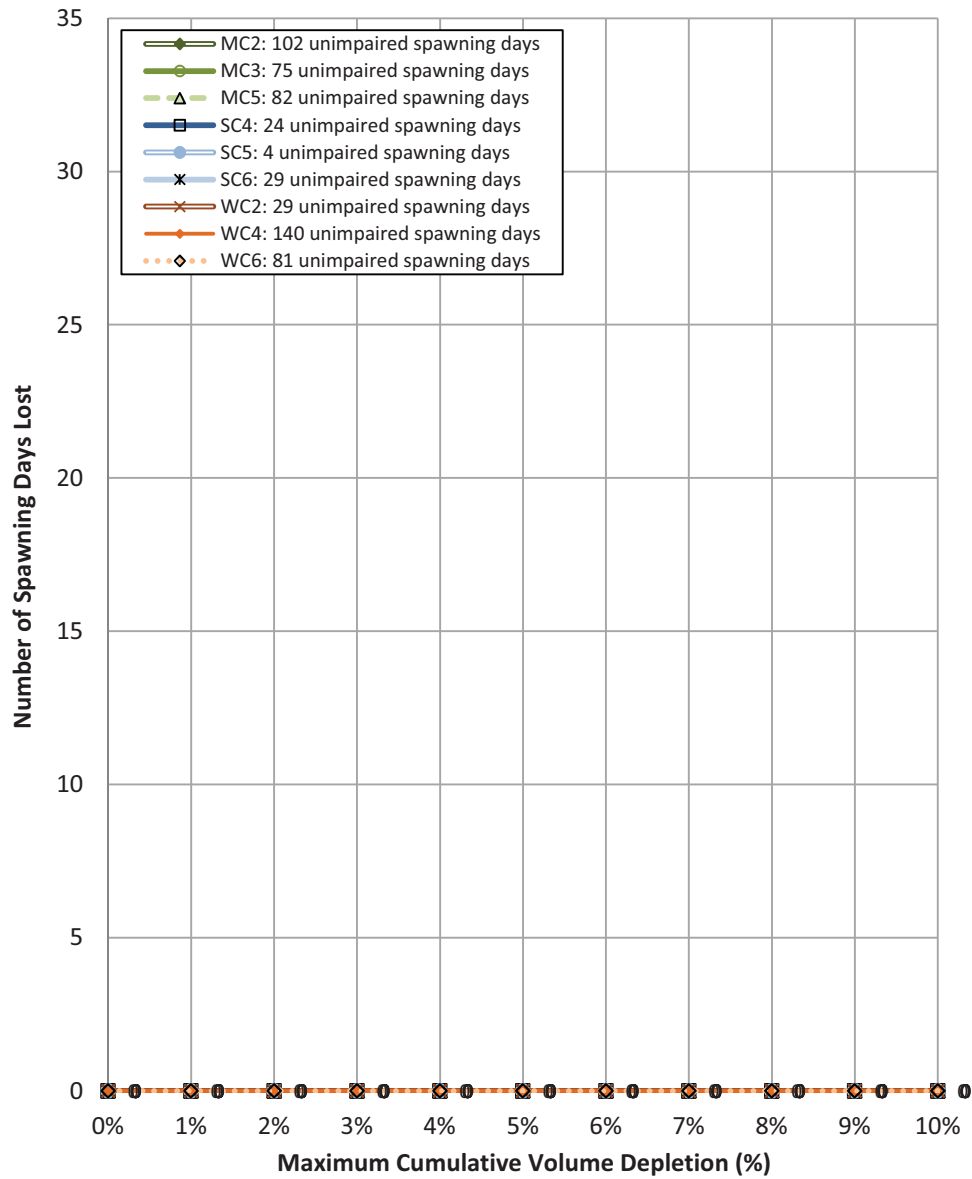
Percent of Unimpaired Passage Days Lost

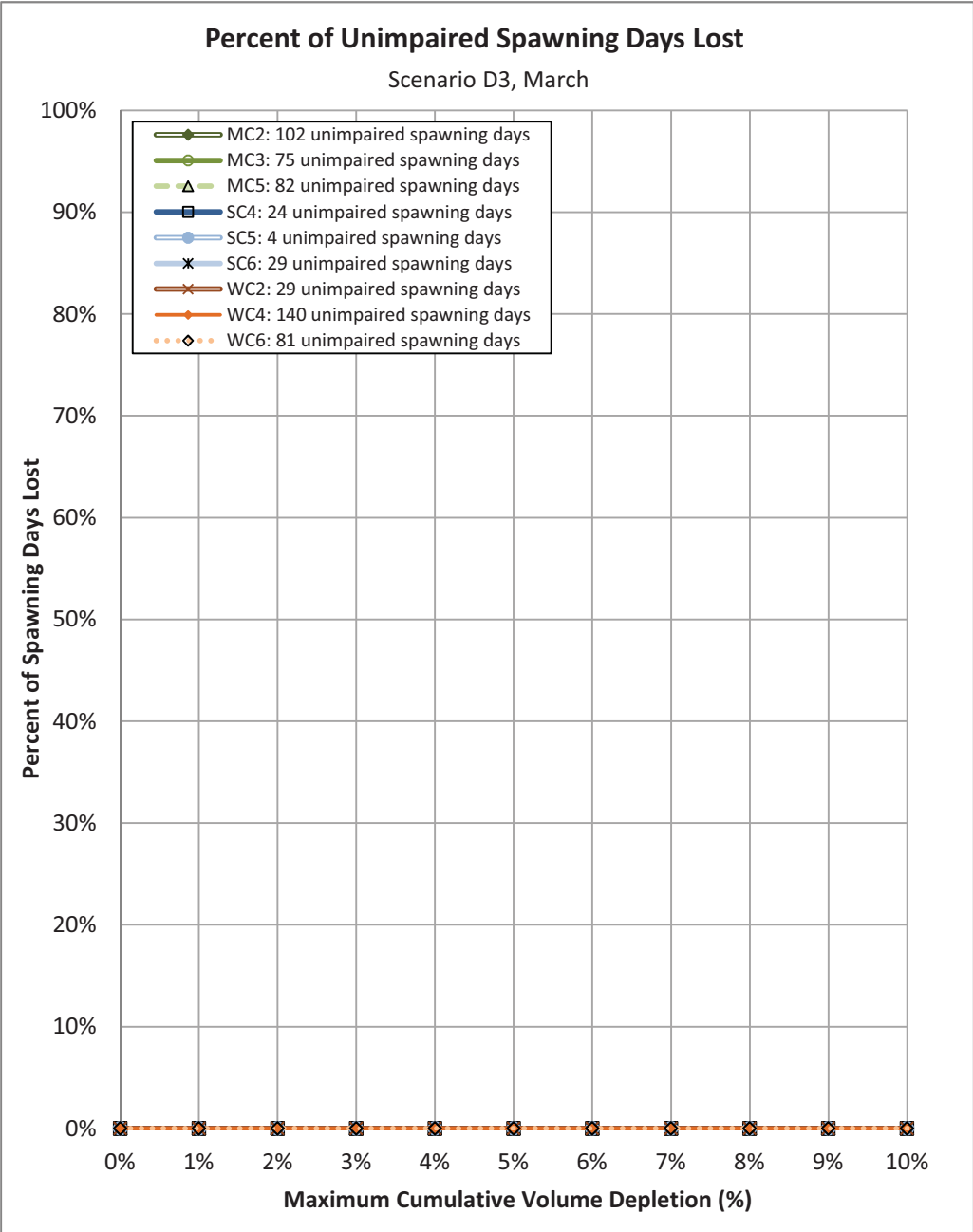
Scenario D3, February



Number of Unimpaired Spawning Days Lost

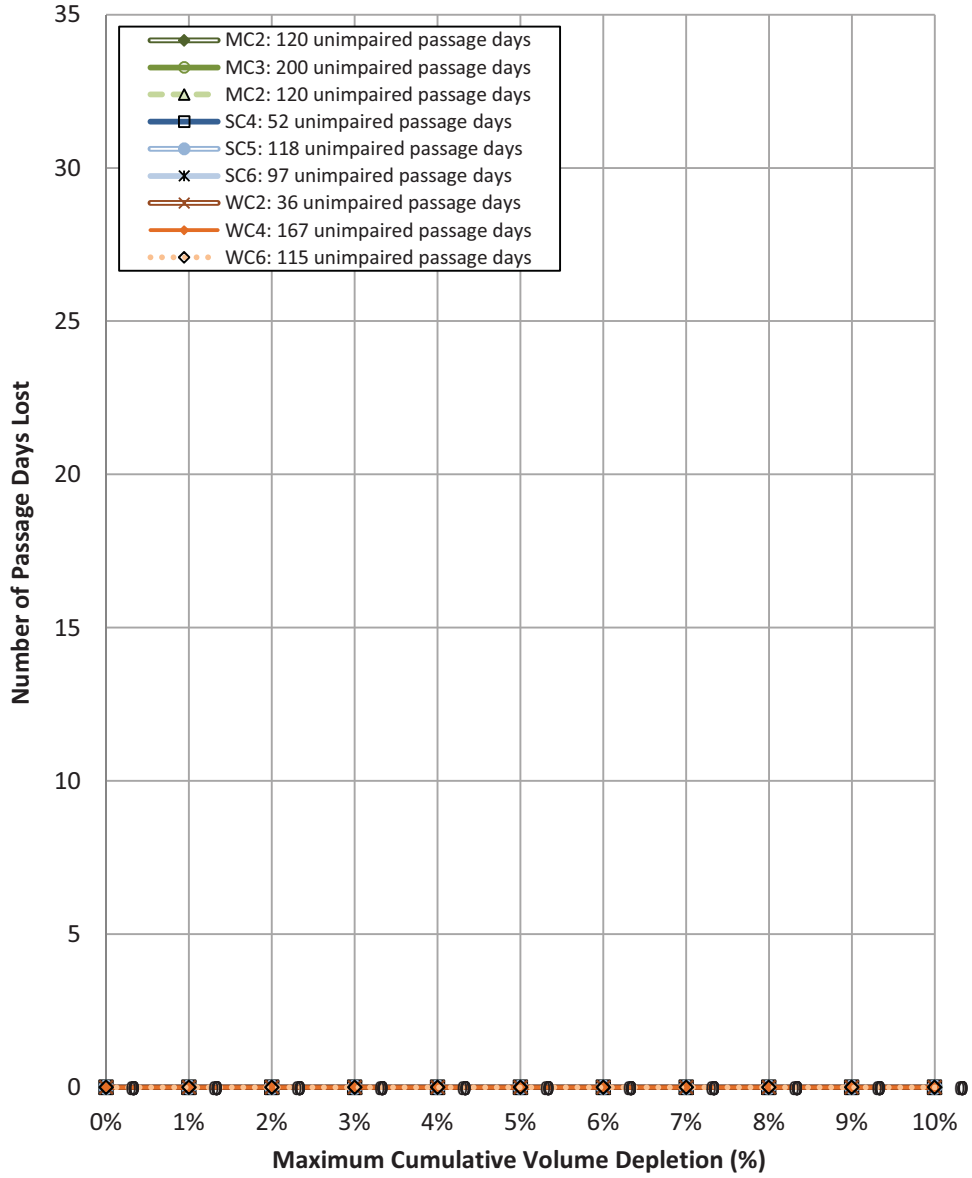
Scenario D3, March

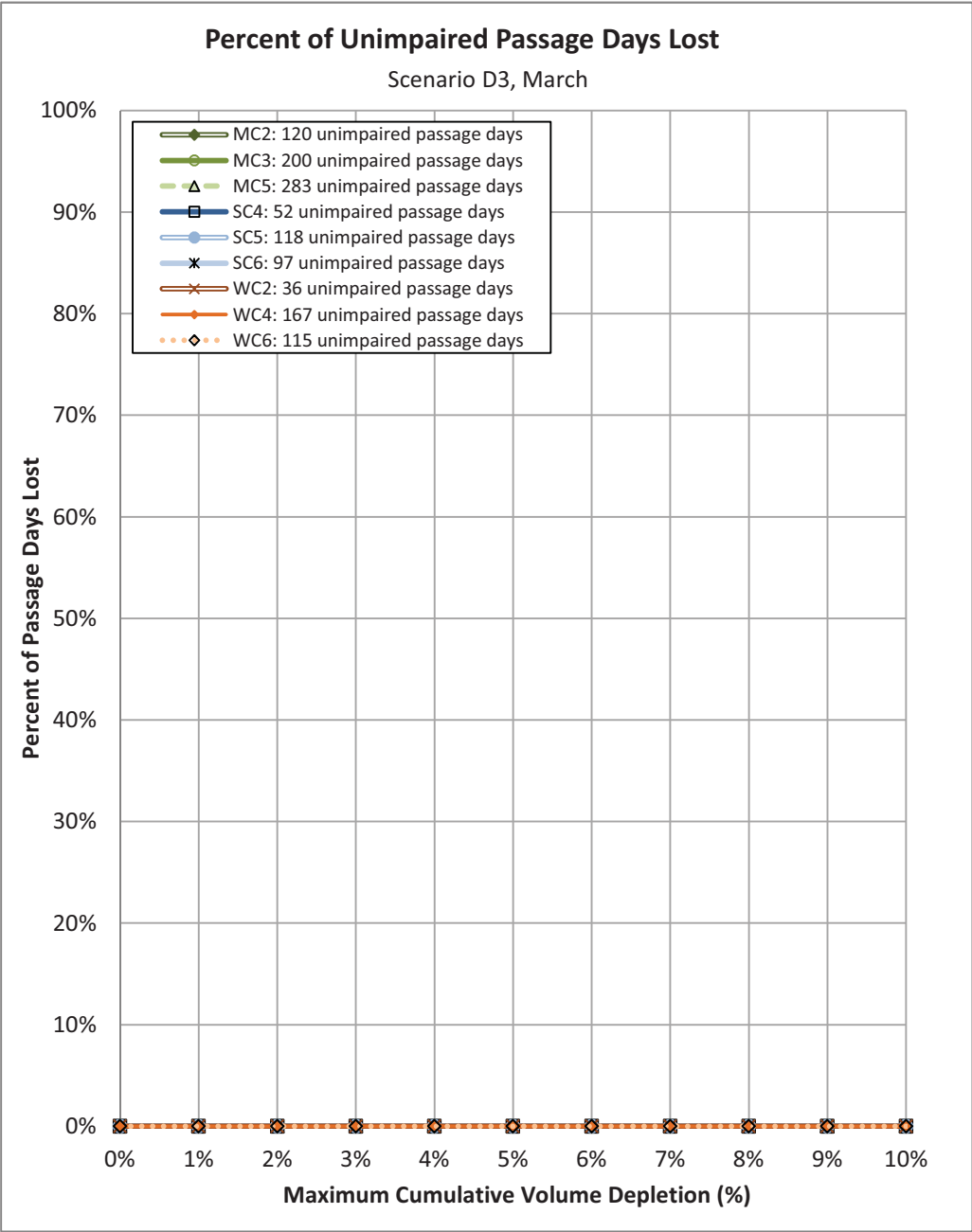




Number of Unimpaired Passage Days Lost

Scenario D3, March





3. Appendix E: Scenario A1 Passage and Spawning Day Tables, Graphs

Table E-25 Unimpaired and Impaired Passage Days in October, Scenario A1

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 14 | 23 | 43 | 4 | 7 | 7 | 0 | 0 | 8 |

| Maximum Cumulative Volume Depletion (%) | Impaired Passage Days | | | | | | | | |
|---|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 14 | 23 | 43 | 4 | 7 | 7 | 0 | 0 | 8 |
| 9% | 14 | 23 | 43 | 4 | 7 | 7 | 0 | 0 | 8 |
| 8% | 14 | 23 | 43 | 4 | 7 | 7 | 0 | 0 | 8 |
| 7% | 14 | 23 | 43 | 4 | 7 | 7 | 0 | 0 | 8 |
| 6% | 14 | 23 | 43 | 4 | 7 | 7 | 0 | 0 | 8 |
| 5% | 14 | 23 | 43 | 4 | 7 | 7 | 0 | 0 | 8 |
| 4% | 14 | 23 | 43 | 4 | 7 | 7 | 0 | 0 | 8 |
| 3% | 14 | 23 | 43 | 4 | 7 | 7 | 0 | 0 | 8 |
| 2% | 14 | 23 | 43 | 4 | 7 | 7 | 0 | 0 | 8 |
| 1% | 14 | 23 | 43 | 4 | 7 | 7 | 0 | 0 | 8 |
| 0% | 14 | 23 | 43 | 4 | 7 | 7 | 0 | 0 | 8 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Passage Days Lost | | | | | | | | |
|---|---|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | - | - | - | - | - | - | - | - | - |
| 9% | - | - | - | - | - | - | - | - | - |
| 8% | - | - | - | - | - | - | - | - | - |
| 7% | - | - | - | - | - | - | - | - | - |
| 6% | - | - | - | - | - | - | - | - | - |
| 5% | - | - | - | - | - | - | - | - | - |
| 4% | - | - | - | - | - | - | - | - | - |
| 3% | - | - | - | - | - | - | - | - | - |
| 2% | - | - | - | - | - | - | - | - | - |
| 1% | - | - | - | - | - | - | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of passage days

Table E-26 Unimpaired and Impaired Spawning Days in October, Scenario A1

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 9 | 6 | 6 | 0 | 0 | 1 | 0 | 0 | 1 |

| Maximum Cumulative Volume Depletion (%) | Impaired Spawning Days | | | | | | | | |
|---|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 9 | 6 | 6 | 0 | 0 | 1 | 0 | 0 | 1 |
| 9% | 9 | 6 | 6 | 0 | 0 | 1 | 0 | 0 | 1 |
| 8% | 9 | 6 | 6 | 0 | 0 | 1 | 0 | 0 | 1 |
| 7% | 9 | 6 | 6 | 0 | 0 | 1 | 0 | 0 | 1 |
| 6% | 9 | 6 | 6 | 0 | 0 | 1 | 0 | 0 | 1 |
| 5% | 9 | 6 | 6 | 0 | 0 | 1 | 0 | 0 | 1 |
| 4% | 9 | 6 | 6 | 0 | 0 | 1 | 0 | 0 | 1 |
| 3% | 9 | 6 | 6 | 0 | 0 | 1 | 0 | 0 | 1 |
| 2% | 9 | 6 | 6 | 0 | 0 | 1 | 0 | 0 | 1 |
| 1% | 9 | 6 | 6 | 0 | 0 | 1 | 0 | 0 | 1 |
| 0% | 9 | 6 | 6 | 0 | 0 | 1 | 0 | 0 | 1 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Spawning Days Lost | | | | | | | | |
|---|--|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | - | - | - | - | - | - | - | - | - |
| 9% | - | - | - | - | - | - | - | - | - |
| 8% | - | - | - | - | - | - | - | - | - |
| 7% | - | - | - | - | - | - | - | - | - |
| 6% | - | - | - | - | - | - | - | - | - |
| 5% | - | - | - | - | - | - | - | - | - |
| 4% | - | - | - | - | - | - | - | - | - |
| 3% | - | - | - | - | - | - | - | - | - |
| 2% | - | - | - | - | - | - | - | - | - |
| 1% | - | - | - | - | - | - | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Notes:

'-' indicates no loss of spawning days

Spawning is not usual in October; results provided only for comparison.

Table E-27 Unimpaired and Impaired Passage Days in November, Scenario A1

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | 12 | 36 | 94 | 2 | 6 | 4 | 1 | 3 |

| Maximum Cumulative Volume Depletion (%) | Impaired Passage Days | | | | | | | | |
|---|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 12 | 36 | 94 | 2 | 6 | 4 | 1 | 3 | 7 |
| 9% | 12 | 36 | 94 | 2 | 6 | 4 | 1 | 3 | 7 |
| 8% | 12 | 36 | 94 | 2 | 6 | 4 | 1 | 3 | 7 |
| 7% | 12 | 36 | 94 | 2 | 6 | 4 | 1 | 3 | 7 |
| 6% | 12 | 36 | 94 | 2 | 6 | 4 | 1 | 3 | 7 |
| 5% | 12 | 36 | 94 | 2 | 6 | 4 | 1 | 3 | 7 |
| 4% | 12 | 36 | 94 | 2 | 6 | 4 | 1 | 3 | 7 |
| 3% | 12 | 36 | 94 | 2 | 6 | 4 | 1 | 3 | 7 |
| 2% | 12 | 36 | 94 | 2 | 6 | 4 | 1 | 3 | 7 |
| 1% | 12 | 36 | 94 | 2 | 6 | 4 | 1 | 3 | 7 |
| 0% | 12 | 36 | 94 | 2 | 6 | 4 | 1 | 3 | 7 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Passage Days Lost | | | | | | | | |
|---|---|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | - | - | - | - | - | - | - | - | - |
| 9% | - | - | - | - | - | - | - | - | - |
| 8% | - | - | - | - | - | - | - | - | - |
| 7% | - | - | - | - | - | - | - | - | - |
| 6% | - | - | - | - | - | - | - | - | - |
| 5% | - | - | - | - | - | - | - | - | - |
| 4% | - | - | - | - | - | - | - | - | - |
| 3% | - | - | - | - | - | - | - | - | - |
| 2% | - | - | - | - | - | - | - | - | - |
| 1% | - | - | - | - | - | - | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of passage days

Table E-28 Unimpaired and Impaired Spawning Days in November, Scenario A1

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 8 | 3 | 6 | 1 | 1 | 1 | 1 | 1 | 1 |

| Maximum Cumulative Volume Depletion (%) | Impaired Spawning Days | | | | | | | | |
|---|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 8 | 3 | 6 | 1 | 1 | 1 | 1 | 1 | 1 |
| 9% | 8 | 3 | 6 | 1 | 1 | 1 | 1 | 1 | 1 |
| 8% | 8 | 3 | 6 | 1 | 1 | 1 | 1 | 1 | 1 |
| 7% | 8 | 3 | 6 | 1 | 1 | 1 | 1 | 1 | 1 |
| 6% | 8 | 3 | 6 | 1 | 1 | 1 | 1 | 1 | 1 |
| 5% | 8 | 3 | 6 | 1 | 1 | 1 | 1 | 1 | 1 |
| 4% | 8 | 3 | 6 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3% | 8 | 3 | 6 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2% | 8 | 3 | 6 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1% | 8 | 3 | 6 | 1 | 1 | 1 | 1 | 1 | 1 |
| 0% | 8 | 3 | 6 | 1 | 1 | 1 | 1 | 1 | 1 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Spawning Days Lost | | | | | | | | |
|---|--|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | - | - | - | - | - | - | - | - | - |
| 9% | - | - | - | - | - | - | - | - | - |
| 8% | - | - | - | - | - | - | - | - | - |
| 7% | - | - | - | - | - | - | - | - | - |
| 6% | - | - | - | - | - | - | - | - | - |
| 5% | - | - | - | - | - | - | - | - | - |
| 4% | - | - | - | - | - | - | - | - | - |
| 3% | - | - | - | - | - | - | - | - | - |
| 2% | - | - | - | - | - | - | - | - | - |
| 1% | - | - | - | - | - | - | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of spawning days

Table E-29 Unimpaired and Impaired Passage Days in December, Scenario A1

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | 112 | 162 | 217 | 46 | 75 | 66 | 33 | 99 |

| Maximum Cumulative Volume Depletion (%) | Impaired Passage Days | | | | | | | | |
|---|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 90 | 162 | 217 | 38 | 61 | 61 | 28 | 99 | 67 |
| 9% | 93 | 162 | 217 | 38 | 62 | 62 | 28 | 99 | 67 |
| 8% | 93 | 162 | 217 | 41 | 65 | 62 | 28 | 99 | 69 |
| 7% | 95 | 162 | 217 | 41 | 66 | 63 | 28 | 99 | 70 |
| 6% | 98 | 162 | 217 | 43 | 67 | 63 | 30 | 99 | 71 |
| 5% | 102 | 162 | 217 | 43 | 69 | 63 | 30 | 99 | 72 |
| 4% | 106 | 162 | 217 | 44 | 71 | 64 | 31 | 99 | 74 |
| 3% | 107 | 162 | 217 | 45 | 71 | 64 | 31 | 99 | 76 |
| 2% | 109 | 162 | 217 | 45 | 71 | 64 | 32 | 99 | 79 |
| 1% | 110 | 162 | 217 | 45 | 73 | 65 | 33 | 99 | 83 |
| 0% | 112 | 162 | 217 | 46 | 75 | 66 | 33 | 99 | 84 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Passage Days Lost | | | | | | | | |
|---|---|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 20% | - | - | 17% | 19% | 8% | 15% | - | 20% |
| 9% | 17% | - | - | 17% | 17% | 6% | 15% | - | 20% |
| 8% | 17% | - | - | 11% | 13% | 6% | 15% | - | 18% |
| 7% | 15% | - | - | 11% | 12% | 5% | 15% | - | 17% |
| 6% | 13% | - | - | 7% | 11% | 5% | 9% | - | 15% |
| 5% | 9% | - | - | 7% | 8% | 5% | 9% | - | 14% |
| 4% | 5% | - | - | 4% | 5% | 3% | 6% | - | 12% |
| 3% | 4% | - | - | 2% | 5% | 3% | 6% | - | 10% |
| 2% | 3% | - | - | 2% | 5% | 3% | 3% | - | 6% |
| 1% | 2% | - | - | 2% | 3% | 2% | - | - | 1% |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of passage days

Table E-30 Unimpaired and Impaired Spawning Days in December, Scenario A1

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 101 | 85 | 93 | 34 | 10 | 35 | 30 | 75 | 69 |

| Maximum Cumulative Volume Depletion (%) | Impaired Spawning Days | | | | | | | | |
|---|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 81 | 68 | 91 | 29 | 7 | 32 | 27 | 75 | 58 |
| 9% | 84 | 71 | 91 | 29 | 9 | 32 | 27 | 75 | 58 |
| 8% | 85 | 73 | 91 | 29 | 9 | 33 | 27 | 75 | 58 |
| 7% | 86 | 74 | 91 | 29 | 10 | 33 | 27 | 75 | 60 |
| 6% | 88 | 74 | 91 | 31 | 10 | 33 | 28 | 75 | 61 |
| 5% | 91 | 75 | 92 | 31 | 10 | 34 | 28 | 75 | 62 |
| 4% | 94 | 77 | 93 | 33 | 10 | 34 | 28 | 75 | 63 |
| 3% | 96 | 80 | 93 | 33 | 10 | 35 | 29 | 75 | 64 |
| 2% | 98 | 83 | 93 | 33 | 10 | 35 | 29 | 75 | 65 |
| 1% | 100 | 84 | 93 | 34 | 10 | 35 | 30 | 75 | 66 |
| 0% | 101 | 85 | 93 | 34 | 10 | 35 | 30 | 75 | 69 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Spawning Days Lost | | | | | | | | |
|---|--|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 20% | 20% | 2% | 15% | 30% | 9% | 10% | - | 16% |
| 9% | 17% | 16% | 2% | 15% | 10% | 9% | 10% | - | 16% |
| 8% | 16% | 14% | 2% | 15% | 10% | 6% | 10% | - | 16% |
| 7% | 15% | 13% | 2% | 15% | - | 6% | 10% | - | 13% |
| 6% | 13% | 13% | 2% | 9% | - | 6% | 7% | - | 12% |
| 5% | 10% | 12% | 1% | 9% | - | 3% | 7% | - | 10% |
| 4% | 7% | 9% | - | 3% | - | 3% | 7% | - | 9% |
| 3% | 5% | 6% | - | 3% | - | - | 3% | - | 7% |
| 2% | 3% | 2% | - | 3% | - | - | 3% | - | 6% |
| 1% | 1% | 1% | - | - | - | - | - | - | 4% |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of spawning days

Table E-31 Unimpaired and Impaired Passage Days in January, Scenario A1

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 104 | 187 | 241 | 53 | 105 | 86 | 25 | 165 | 102 |

| Maximum Cumulative Volume Depletion (%) | Impaired Passage Days | | | | | | | | |
|---|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 97 | 187 | 241 | 48 | 101 | 86 | 22 | 165 | 99 |
| 9% | 97 | 187 | 241 | 48 | 102 | 86 | 22 | 165 | 99 |
| 8% | 97 | 187 | 241 | 48 | 102 | 86 | 23 | 165 | 100 |
| 7% | 99 | 187 | 241 | 49 | 102 | 86 | 23 | 165 | 100 |
| 6% | 99 | 187 | 241 | 50 | 103 | 86 | 24 | 165 | 100 |
| 5% | 99 | 187 | 241 | 50 | 104 | 86 | 24 | 165 | 100 |
| 4% | 100 | 187 | 241 | 51 | 104 | 86 | 24 | 165 | 100 |
| 3% | 102 | 187 | 241 | 51 | 104 | 86 | 25 | 165 | 101 |
| 2% | 103 | 187 | 241 | 52 | 104 | 86 | 25 | 165 | 102 |
| 1% | 103 | 187 | 241 | 52 | 105 | 86 | 25 | 165 | 102 |
| 0% | 104 | 187 | 241 | 53 | 105 | 86 | 25 | 165 | 102 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Passage Days Lost | | | | | | | | |
|---|---|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 7% | - | - | 9% | 4% | - | 12% | - | 3% |
| 9% | 7% | - | - | 9% | 3% | - | 12% | - | 3% |
| 8% | 7% | - | - | 9% | 3% | - | 8% | - | 2% |
| 7% | 5% | - | - | 8% | 3% | - | 8% | - | 2% |
| 6% | 5% | - | - | 6% | 2% | - | 4% | - | 2% |
| 5% | 5% | - | - | 6% | 1% | - | 4% | - | 2% |
| 4% | 4% | - | - | 4% | 1% | - | 4% | - | 2% |
| 3% | 2% | - | - | 4% | 1% | - | - | - | 1% |
| 2% | 1% | - | - | 2% | 1% | - | - | - | - |
| 1% | 1% | - | - | 2% | - | - | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of passage days

Table E-32 Unimpaired and Impaired Spawning Days in January, Scenario A1

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 87 | 68 | 73 | 29 | 6 | 30 | 22 | 136 | 74 |

| Maximum Cumulative Volume Depletion (%) | Impaired Spawning Days | | | | | | | | |
|---|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 81 | 65 | 72 | 26 | 5 | 28 | 19 | 135 | 69 |
| 9% | 81 | 65 | 72 | 26 | 5 | 28 | 19 | 135 | 70 |
| 8% | 81 | 65 | 72 | 26 | 5 | 28 | 19 | 135 | 71 |
| 7% | 83 | 66 | 72 | 26 | 5 | 28 | 20 | 136 | 72 |
| 6% | 83 | 67 | 72 | 26 | 5 | 28 | 20 | 136 | 72 |
| 5% | 83 | 67 | 72 | 26 | 5 | 28 | 21 | 136 | 72 |
| 4% | 83 | 67 | 72 | 27 | 5 | 28 | 21 | 136 | 72 |
| 3% | 84 | 67 | 72 | 27 | 6 | 28 | 21 | 136 | 72 |
| 2% | 86 | 68 | 73 | 27 | 6 | 28 | 22 | 136 | 73 |
| 1% | 86 | 68 | 73 | 28 | 6 | 29 | 22 | 136 | 74 |
| 0% | 87 | 68 | 73 | 29 | 6 | 30 | 22 | 136 | 74 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Spawning Days Lost | | | | | | | | |
|---|--|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 7% | 4% | 1% | 10% | 17% | 7% | 14% | 1% | 7% |
| 9% | 7% | 4% | 1% | 10% | 17% | 7% | 14% | 1% | 5% |
| 8% | 7% | 4% | 1% | 10% | 17% | 7% | 14% | 1% | 4% |
| 7% | 5% | 3% | 1% | 10% | 17% | 7% | 9% | - | 3% |
| 6% | 5% | 1% | 1% | 10% | 17% | 7% | 9% | - | 3% |
| 5% | 5% | 1% | 1% | 10% | 17% | 7% | 5% | - | 3% |
| 4% | 5% | 1% | 1% | 7% | 17% | 7% | 5% | - | 3% |
| 3% | 3% | 1% | 1% | 7% | - | 7% | 5% | - | 3% |
| 2% | 1% | - | - | 7% | - | 7% | - | - | 1% |
| 1% | 1% | - | - | 3% | - | 3% | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of spawning days

Table E-33 Unimpaired and Impaired Passage Days in February, Scenario A1

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | 105 | 176 | 262 | 43 | 112 | 82 | 31 | 178 |

| Maximum Cumulative Volume Depletion (%) | Impaired Passage Days | | | | | | | | |
|---|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 104 | 176 | 262 | 40 | 109 | 80 | 30 | 178 | 118 |
| 9% | 104 | 176 | 262 | 40 | 109 | 81 | 31 | 178 | 118 |
| 8% | 104 | 176 | 262 | 41 | 109 | 82 | 31 | 178 | 118 |
| 7% | 104 | 176 | 262 | 42 | 109 | 82 | 31 | 178 | 118 |
| 6% | 104 | 176 | 262 | 42 | 111 | 82 | 31 | 178 | 118 |
| 5% | 104 | 176 | 262 | 42 | 111 | 82 | 31 | 178 | 119 |
| 4% | 105 | 176 | 262 | 42 | 111 | 82 | 31 | 178 | 119 |
| 3% | 105 | 176 | 262 | 42 | 111 | 82 | 31 | 178 | 119 |
| 2% | 105 | 176 | 262 | 43 | 111 | 82 | 31 | 178 | 119 |
| 1% | 105 | 176 | 262 | 43 | 111 | 82 | 31 | 178 | 119 |
| 0% | 105 | 176 | 262 | 43 | 112 | 82 | 31 | 178 | 119 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Passage Days Lost | | | | | | | | |
|---|---|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 1% | - | - | 7% | 3% | 2% | 3% | - | 1% |
| 9% | 1% | - | - | 7% | 3% | 1% | - | - | 1% |
| 8% | 1% | - | - | 5% | 3% | - | - | - | 1% |
| 7% | 1% | - | - | 2% | 3% | - | - | - | 1% |
| 6% | 1% | - | - | 2% | 1% | - | - | - | 1% |
| 5% | 1% | - | - | 2% | 1% | - | - | - | - |
| 4% | - | - | - | 2% | 1% | - | - | - | - |
| 3% | - | - | - | 2% | 1% | - | - | - | - |
| 2% | - | - | - | - | 1% | - | - | - | - |
| 1% | - | - | - | - | 1% | - | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of passage days

Table E-34 Unimpaired and Impaired Spawning Days in February, Scenario A1

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 93 | 71 | 80 | 17 | 5 | 24 | 25 | 138 | 79 |

| Maximum Cumulative Volume Depletion (%) | Impaired Spawning Days | | | | | | | | |
|---|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 92 | 69 | 80 | 16 | 5 | 23 | 24 | 138 | 78 |
| 9% | 92 | 70 | 80 | 16 | 5 | 23 | 25 | 138 | 78 |
| 8% | 92 | 70 | 80 | 16 | 5 | 23 | 25 | 138 | 78 |
| 7% | 92 | 70 | 80 | 16 | 5 | 23 | 25 | 138 | 78 |
| 6% | 92 | 70 | 80 | 16 | 5 | 23 | 25 | 138 | 78 |
| 5% | 92 | 70 | 80 | 17 | 5 | 23 | 25 | 138 | 78 |
| 4% | 93 | 70 | 80 | 17 | 5 | 23 | 25 | 138 | 79 |
| 3% | 93 | 71 | 80 | 17 | 5 | 24 | 25 | 138 | 79 |
| 2% | 93 | 71 | 80 | 17 | 5 | 24 | 25 | 138 | 79 |
| 1% | 93 | 71 | 80 | 17 | 5 | 24 | 25 | 138 | 79 |
| 0% | 93 | 71 | 80 | 17 | 5 | 24 | 25 | 138 | 79 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Spawning Days Lost | | | | | | | | |
|---|--|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 1% | 3% | - | 6% | - | 4% | 4% | - | 1% |
| 9% | 1% | 1% | - | 6% | - | 4% | - | - | 1% |
| 8% | 1% | 1% | - | 6% | - | 4% | - | - | 1% |
| 7% | 1% | 1% | - | 6% | - | 4% | - | - | 1% |
| 6% | 1% | 1% | - | 6% | - | 4% | - | - | 1% |
| 5% | 1% | 1% | - | - | - | 4% | - | - | 1% |
| 4% | - | 1% | - | - | - | 4% | - | - | - |
| 3% | - | - | - | - | - | - | - | - | - |
| 2% | - | - | - | - | - | - | - | - | - |
| 1% | - | - | - | - | - | - | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of spawning days

Table E-35 Unimpaired and Impaired Passage Days in March, Scenario A1

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | 120 | 200 | 283 | 52 | 118 | 97 | 36 | 167 |

| Maximum Cumulative Volume Depletion (%) | Impaired Passage Days | | | | | | | | |
|---|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 120 | 200 | 283 | 52 | 118 | 97 | 36 | 167 | 115 |
| 9% | 120 | 200 | 283 | 52 | 118 | 97 | 36 | 167 | 115 |
| 8% | 120 | 200 | 283 | 52 | 118 | 97 | 36 | 167 | 115 |
| 7% | 120 | 200 | 283 | 52 | 118 | 97 | 36 | 167 | 115 |
| 6% | 120 | 200 | 283 | 52 | 118 | 97 | 36 | 167 | 115 |
| 5% | 120 | 200 | 283 | 52 | 118 | 97 | 36 | 167 | 115 |
| 4% | 120 | 200 | 283 | 52 | 118 | 97 | 36 | 167 | 115 |
| 3% | 120 | 200 | 283 | 52 | 118 | 97 | 36 | 167 | 115 |
| 2% | 120 | 200 | 283 | 52 | 118 | 97 | 36 | 167 | 115 |
| 1% | 120 | 200 | 283 | 52 | 118 | 97 | 36 | 167 | 115 |
| 0% | 120 | 200 | 283 | 52 | 118 | 97 | 36 | 167 | 115 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Passage Days Lost | | | | | | | | |
|---|---|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | - | - | - | - | - | - | - | - | - |
| 9% | - | - | - | - | - | - | - | - | - |
| 8% | - | - | - | - | - | - | - | - | - |
| 7% | - | - | - | - | - | - | - | - | - |
| 6% | - | - | - | - | - | - | - | - | - |
| 5% | - | - | - | - | - | - | - | - | - |
| 4% | - | - | - | - | - | - | - | - | - |
| 3% | - | - | - | - | - | - | - | - | - |
| 2% | - | - | - | - | - | - | - | - | - |
| 1% | - | - | - | - | - | - | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of passage days

Table E-36 Unimpaired and Impaired Spawning Days in March, Scenario A1

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 102 | 75 | 82 | 24 | 4 | 29 | 29 | 140 | 81 |

| Maximum Cumulative Volume Depletion (%) | Impaired Spawning Days | | | | | | | | |
|---|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 102 | 75 | 82 | 24 | 4 | 29 | 29 | 140 | 81 |
| 9% | 102 | 75 | 82 | 24 | 4 | 29 | 29 | 140 | 81 |
| 8% | 102 | 75 | 82 | 24 | 4 | 29 | 29 | 140 | 81 |
| 7% | 102 | 75 | 82 | 24 | 4 | 29 | 29 | 140 | 81 |
| 6% | 102 | 75 | 82 | 24 | 4 | 29 | 29 | 140 | 81 |
| 5% | 102 | 75 | 82 | 24 | 4 | 29 | 29 | 140 | 81 |
| 4% | 102 | 75 | 82 | 24 | 4 | 29 | 29 | 140 | 81 |
| 3% | 102 | 75 | 82 | 24 | 4 | 29 | 29 | 140 | 81 |
| 2% | 102 | 75 | 82 | 24 | 4 | 29 | 29 | 140 | 81 |
| 1% | 102 | 75 | 82 | 24 | 4 | 29 | 29 | 140 | 81 |
| 0% | 102 | 75 | 82 | 24 | 4 | 29 | 29 | 140 | 81 |

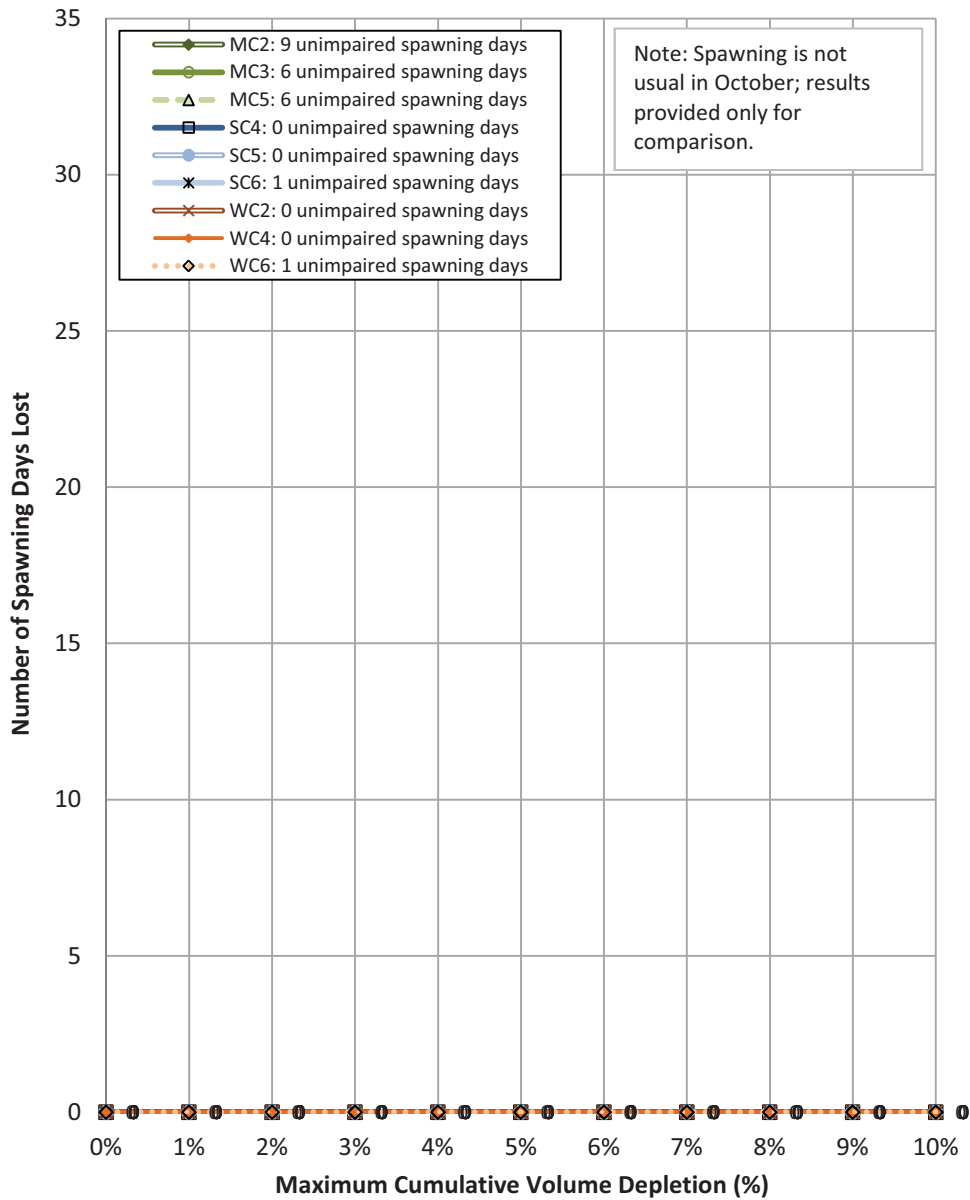
| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Spawning Days Lost | | | | | | | | |
|---|--|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | - | - | - | - | - | - | - | - | - |
| 9% | - | - | - | - | - | - | - | - | - |
| 8% | - | - | - | - | - | - | - | - | - |
| 7% | - | - | - | - | - | - | - | - | - |
| 6% | - | - | - | - | - | - | - | - | - |
| 5% | - | - | - | - | - | - | - | - | - |
| 4% | - | - | - | - | - | - | - | - | - |
| 3% | - | - | - | - | - | - | - | - | - |
| 2% | - | - | - | - | - | - | - | - | - |
| 1% | - | - | - | - | - | - | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of spawning days

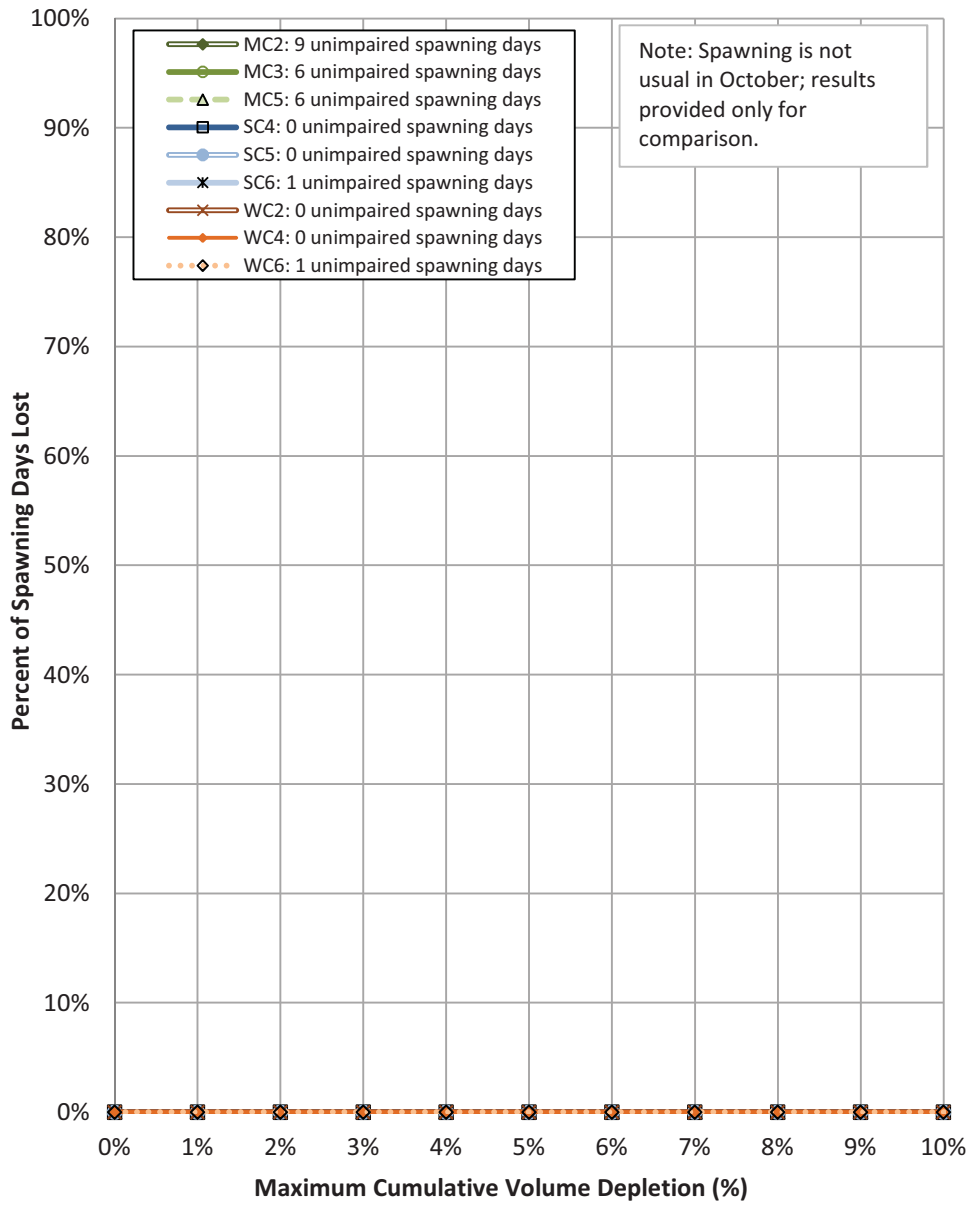
Number of Unimpaired Spawning Days Lost

Scenario A1, October



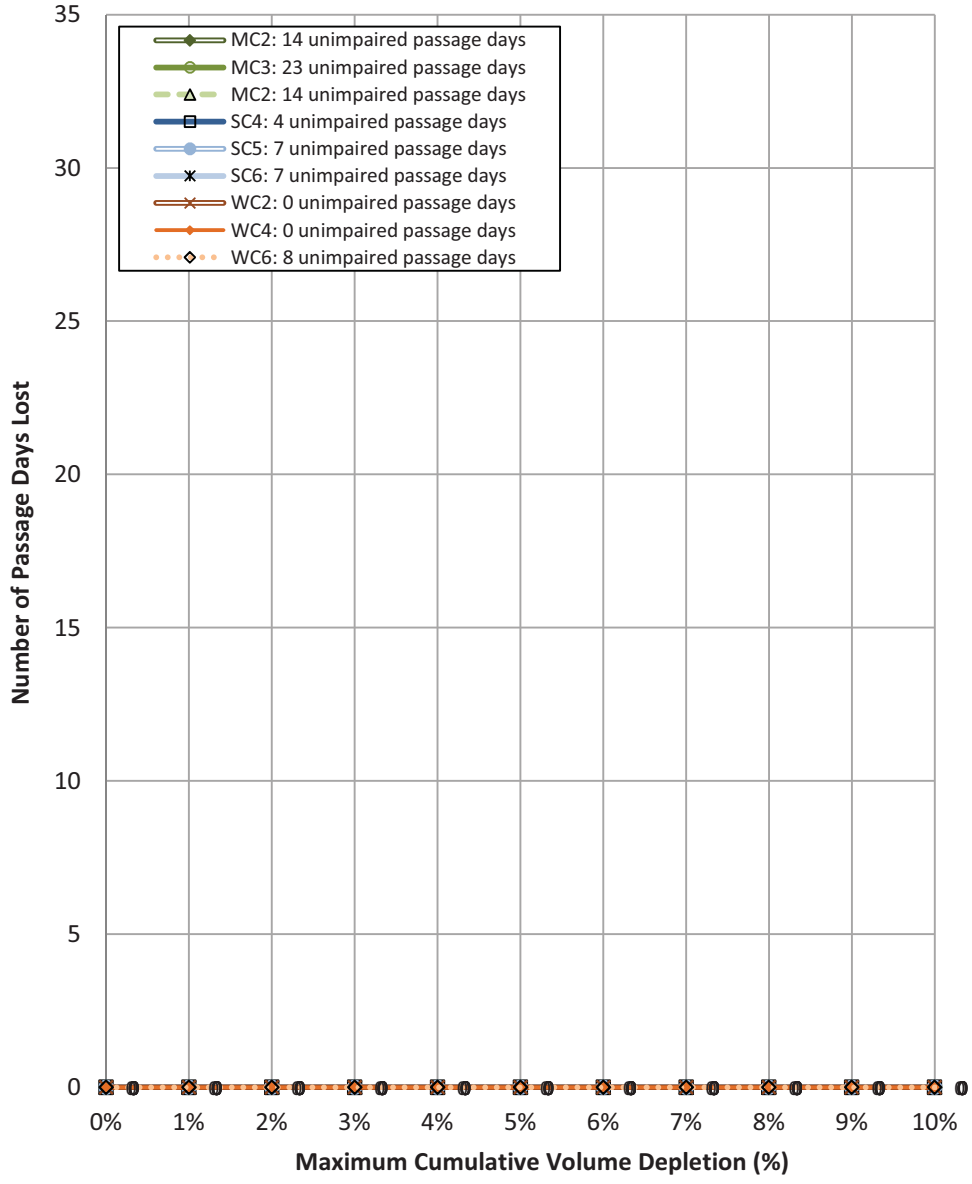
Percent of Unimpaired Spawning Days Lost

Scenario A1, October



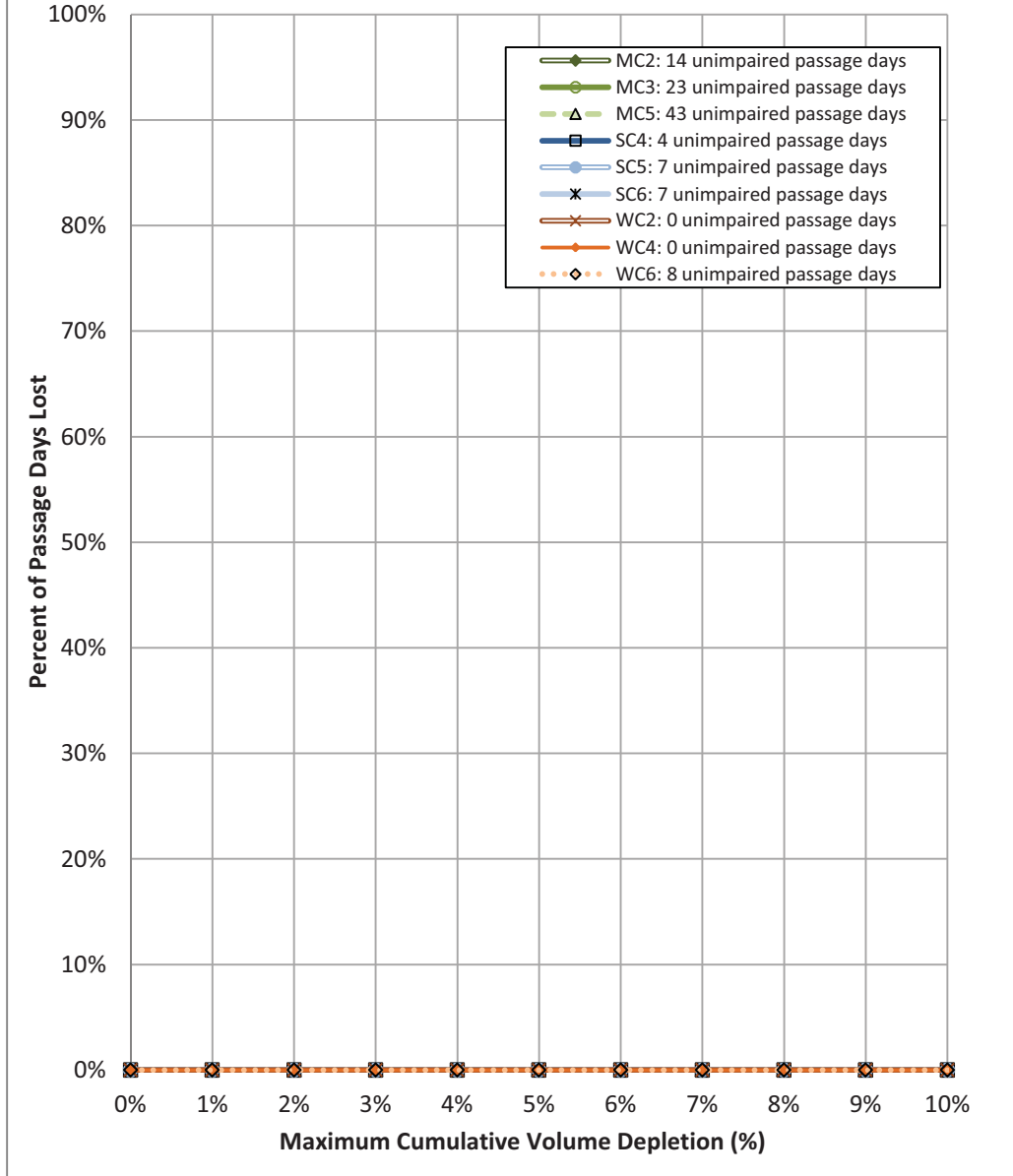
Number of Unimpaired Passage Days Lost

Scenario A1, October



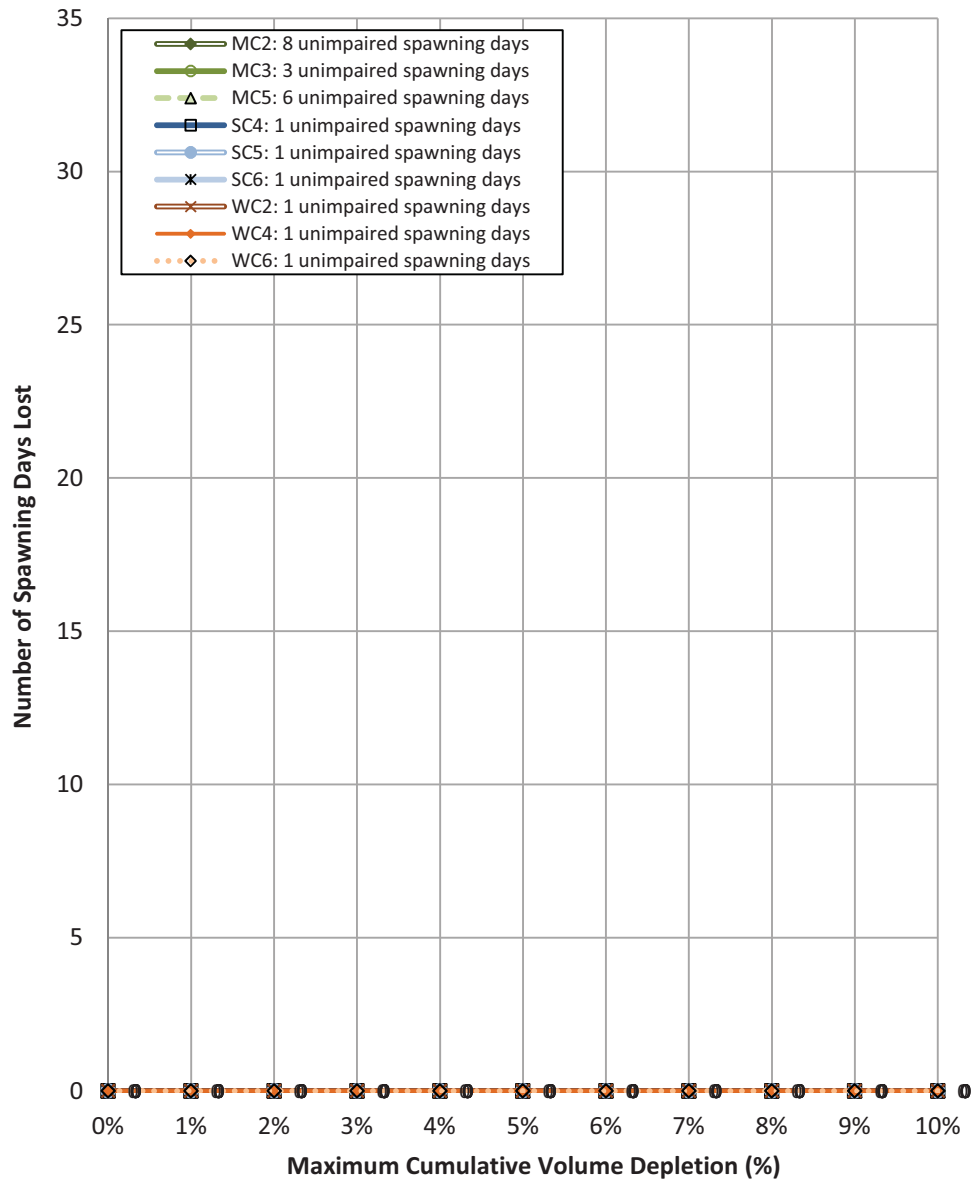
Percent of Unimpaired Passage Days Lost

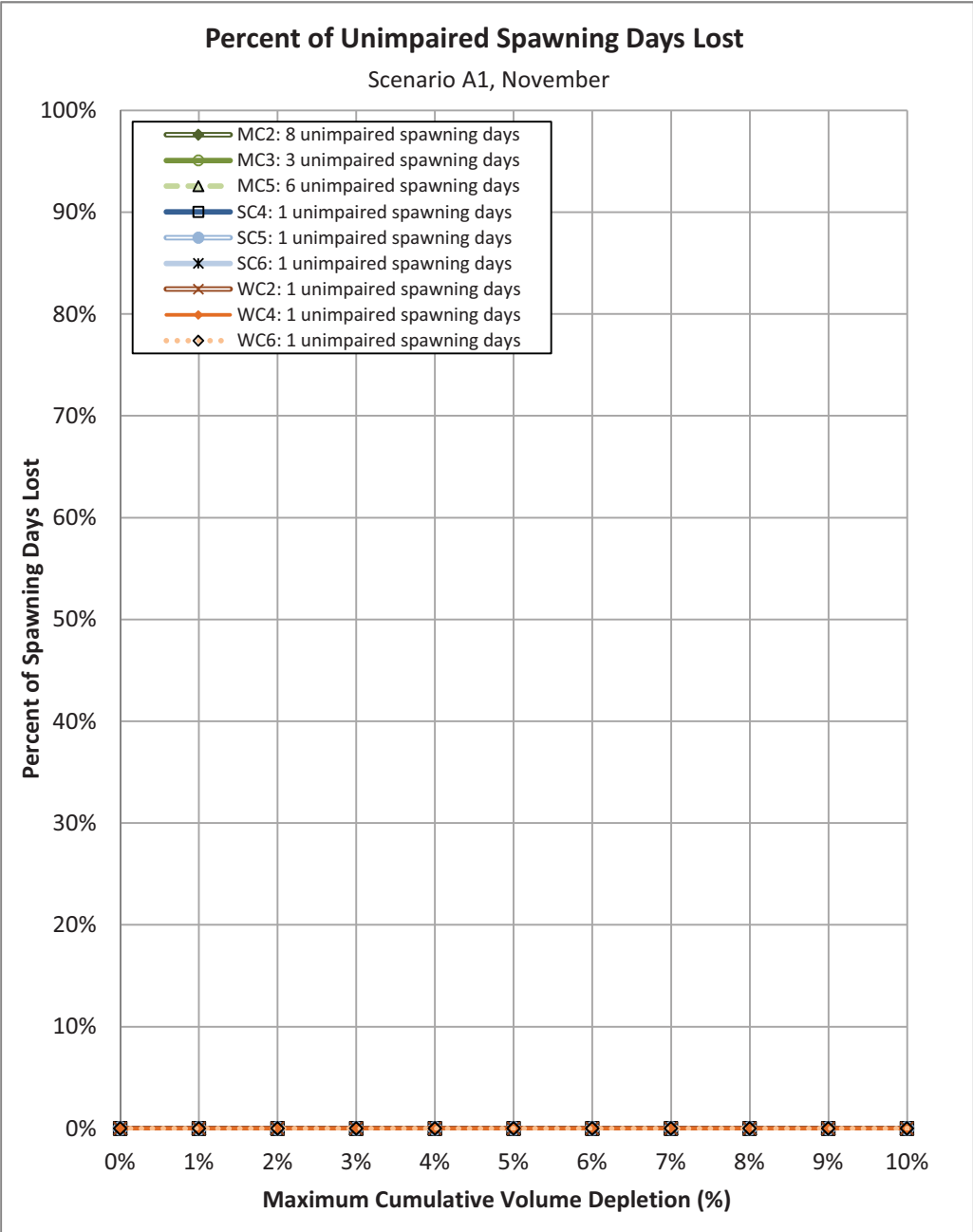
Scenario A1, October



Number of Unimpaired Spawning Days Lost

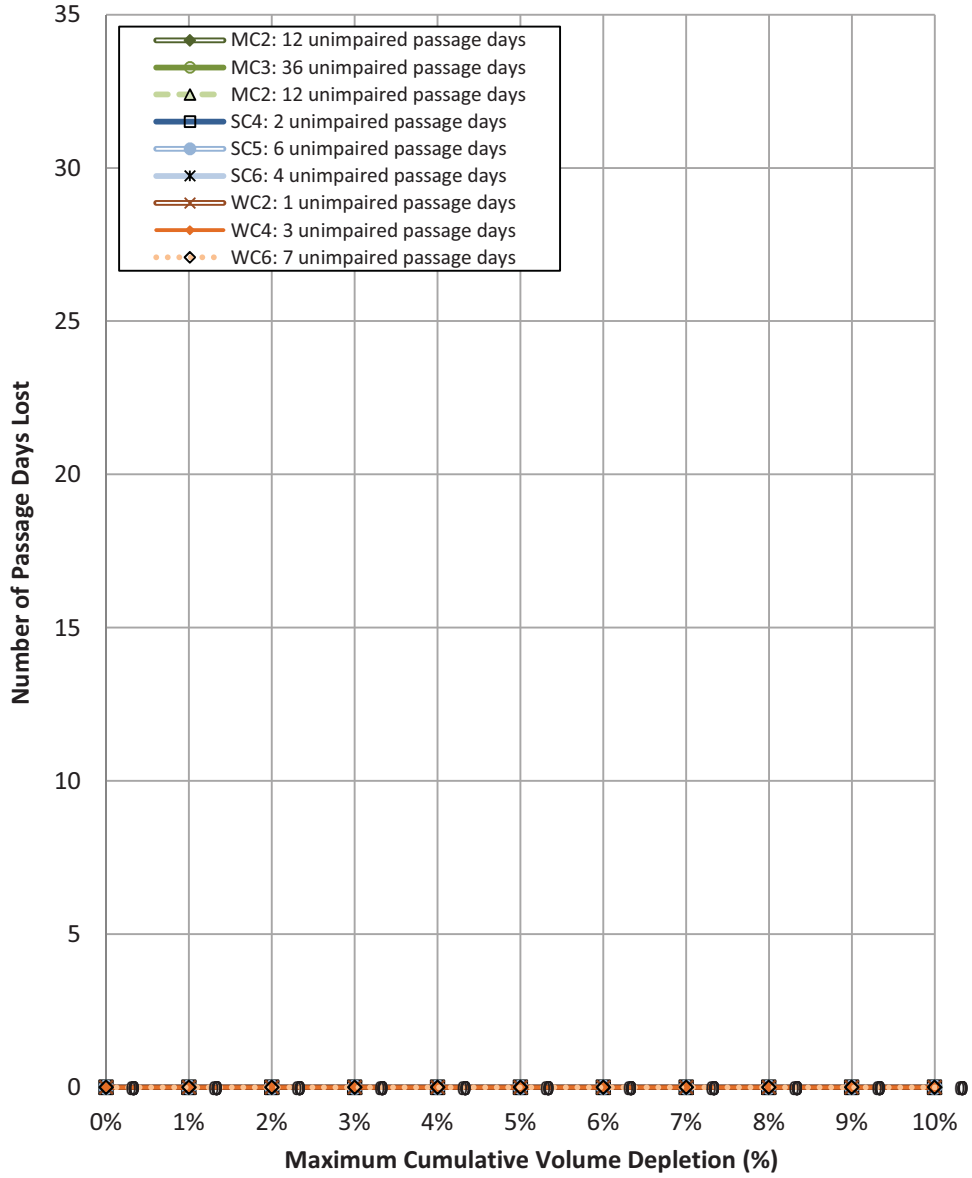
Scenario A1, November

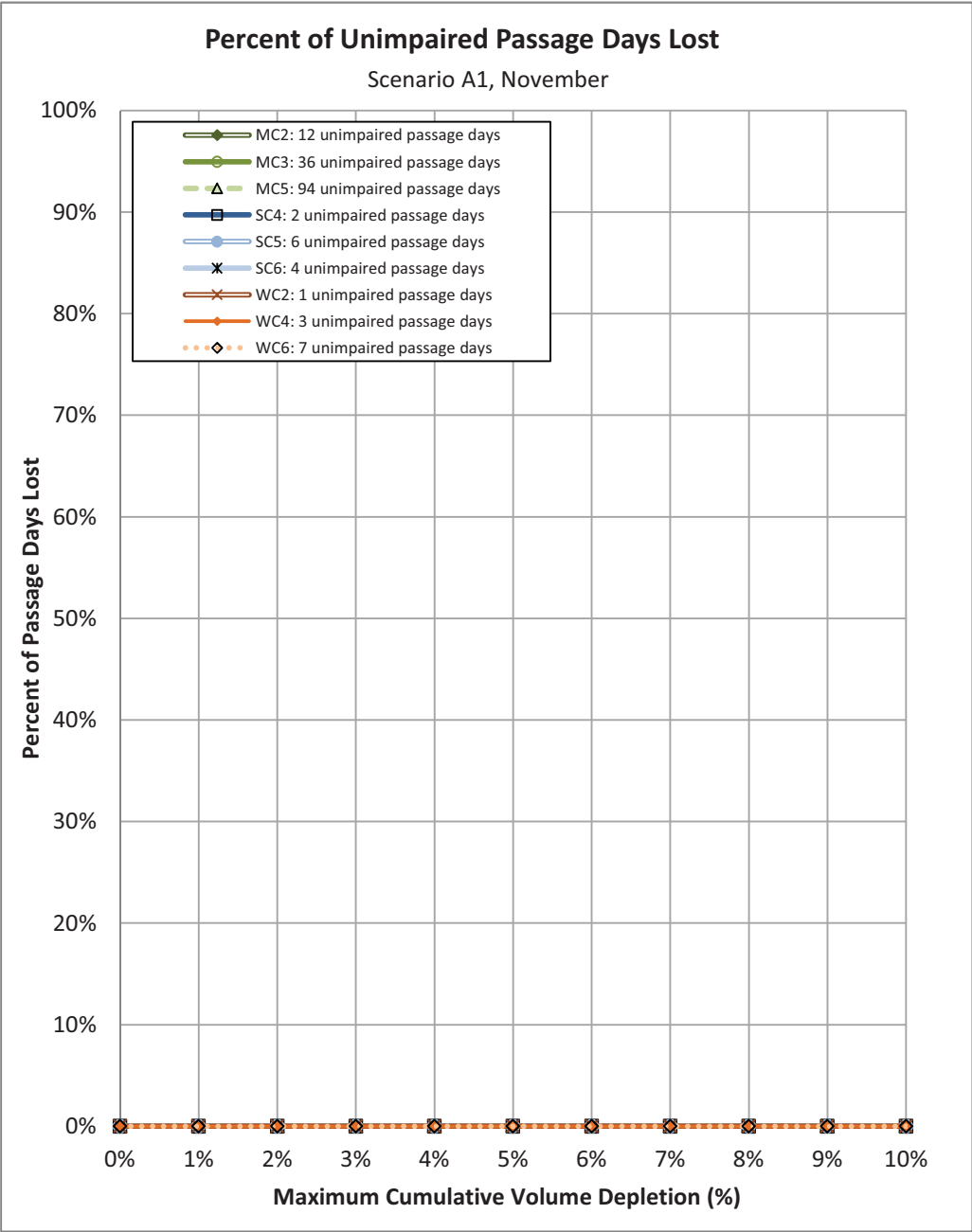




Number of Unimpaired Passage Days Lost

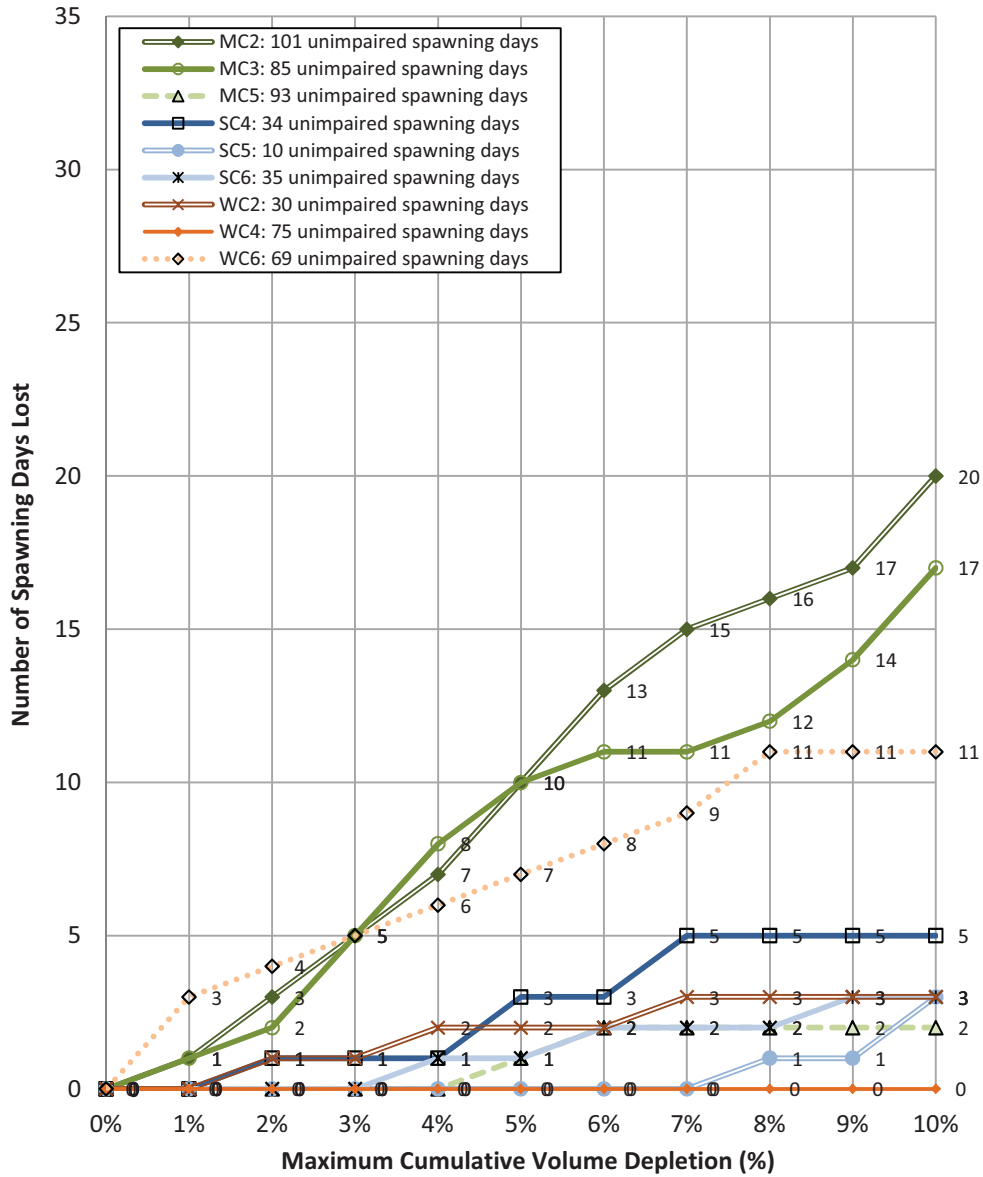
Scenario A1, November





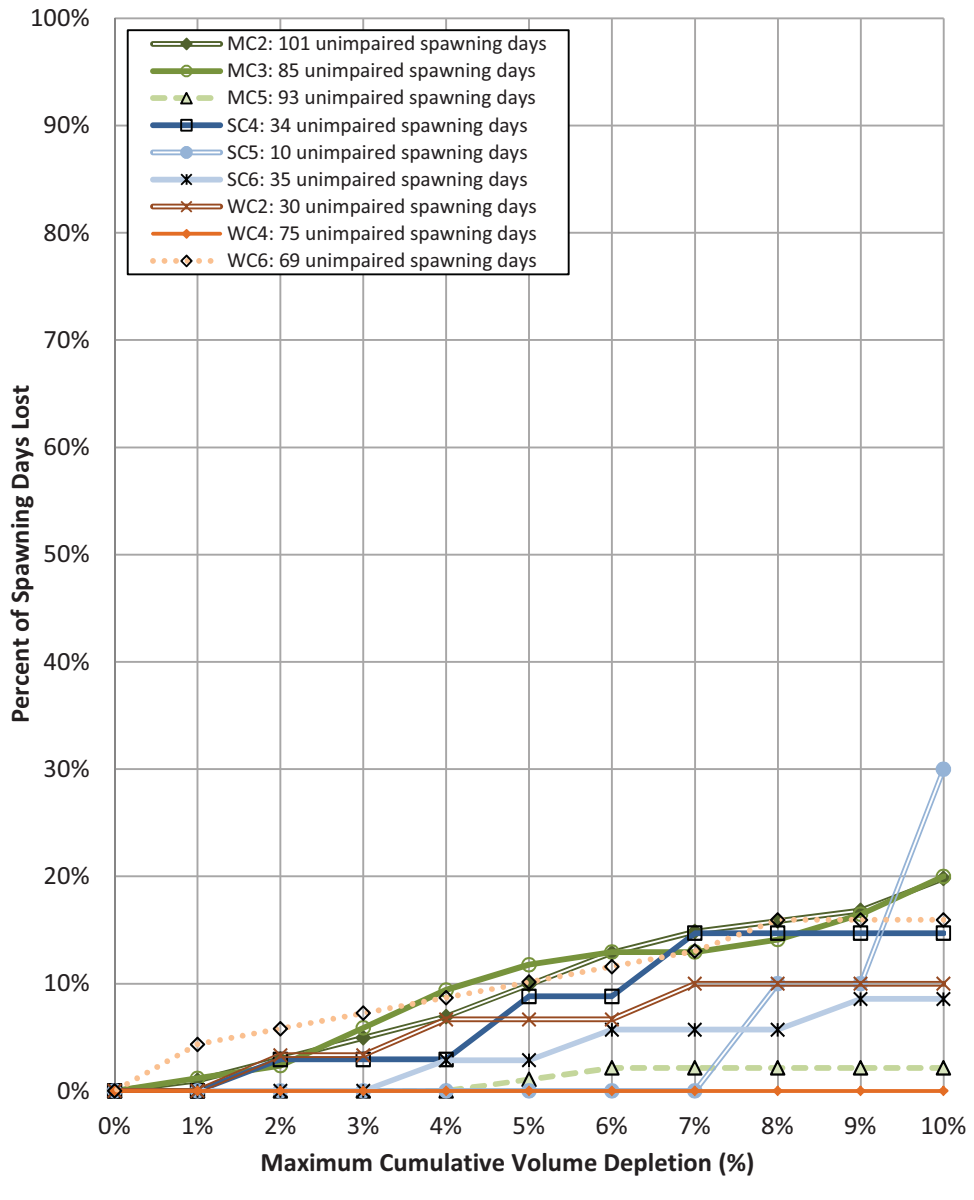
Number of Unimpaired Spawning Days Lost

Scenario A1, December



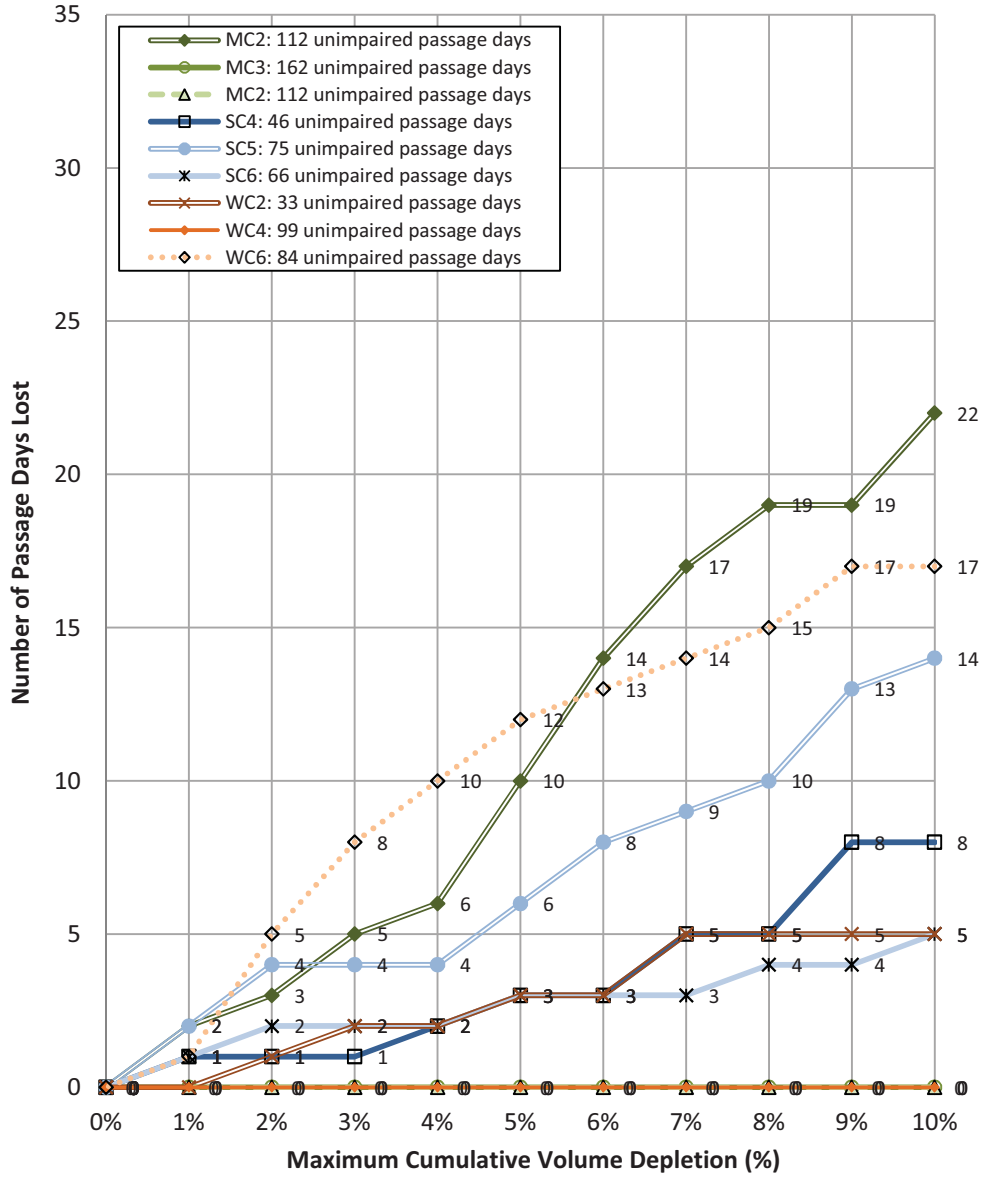
Percent of Unimpaired Spawning Days Lost

Scenario A1, December



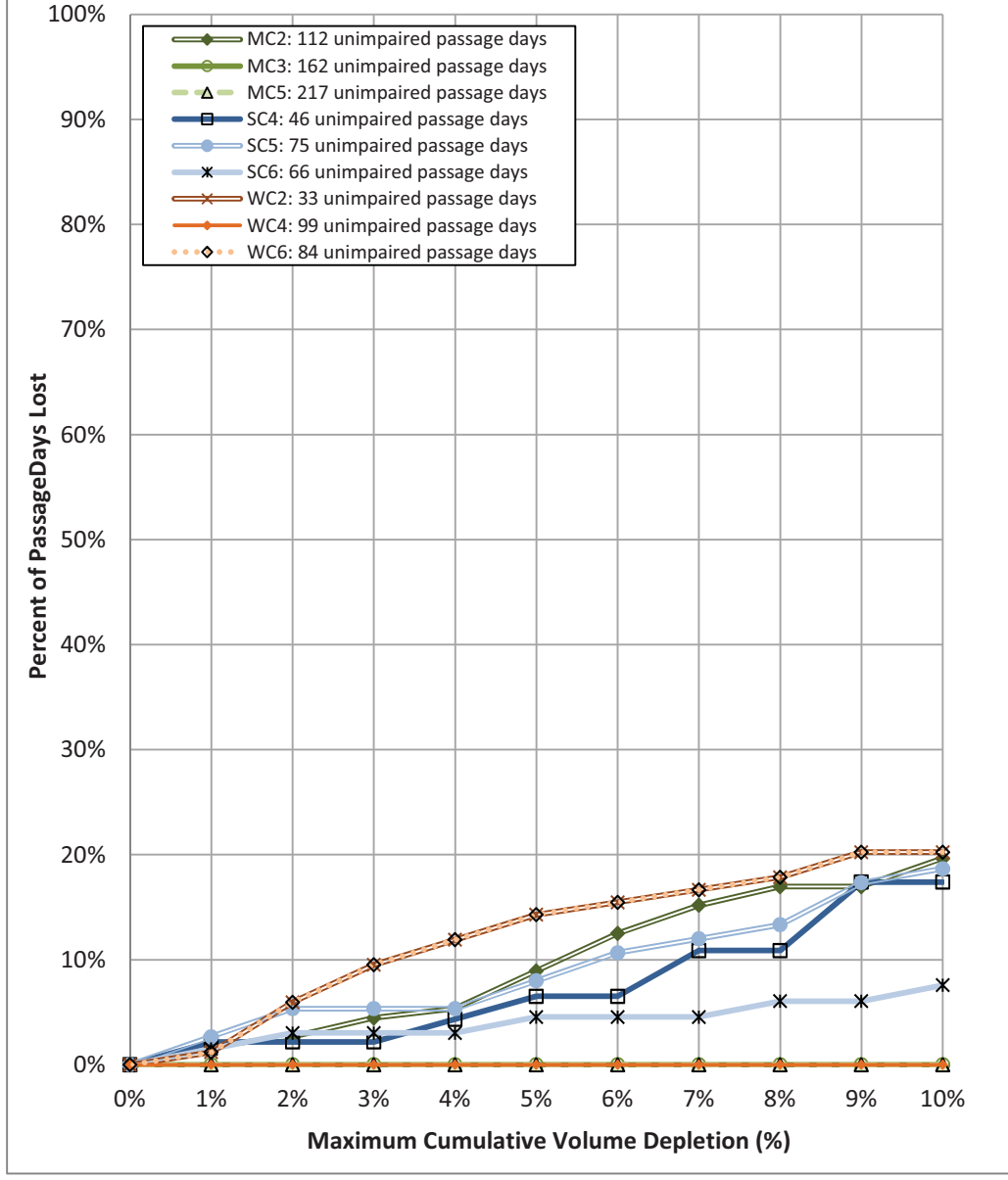
Number of Unimpaired Passage Days Lost

Scenario A1, December



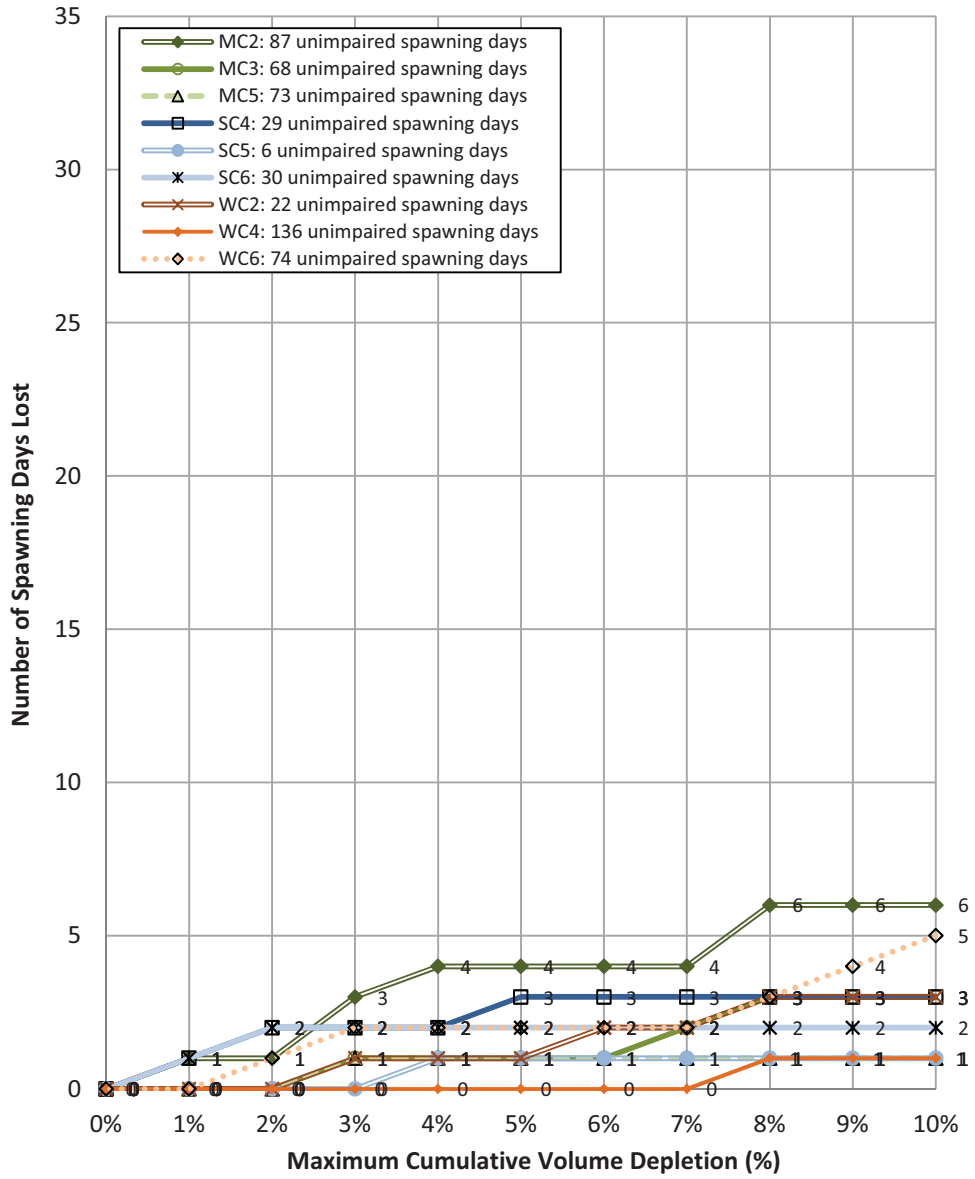
Percent of Unimpaired Passage Days Lost

Scenario A1, December



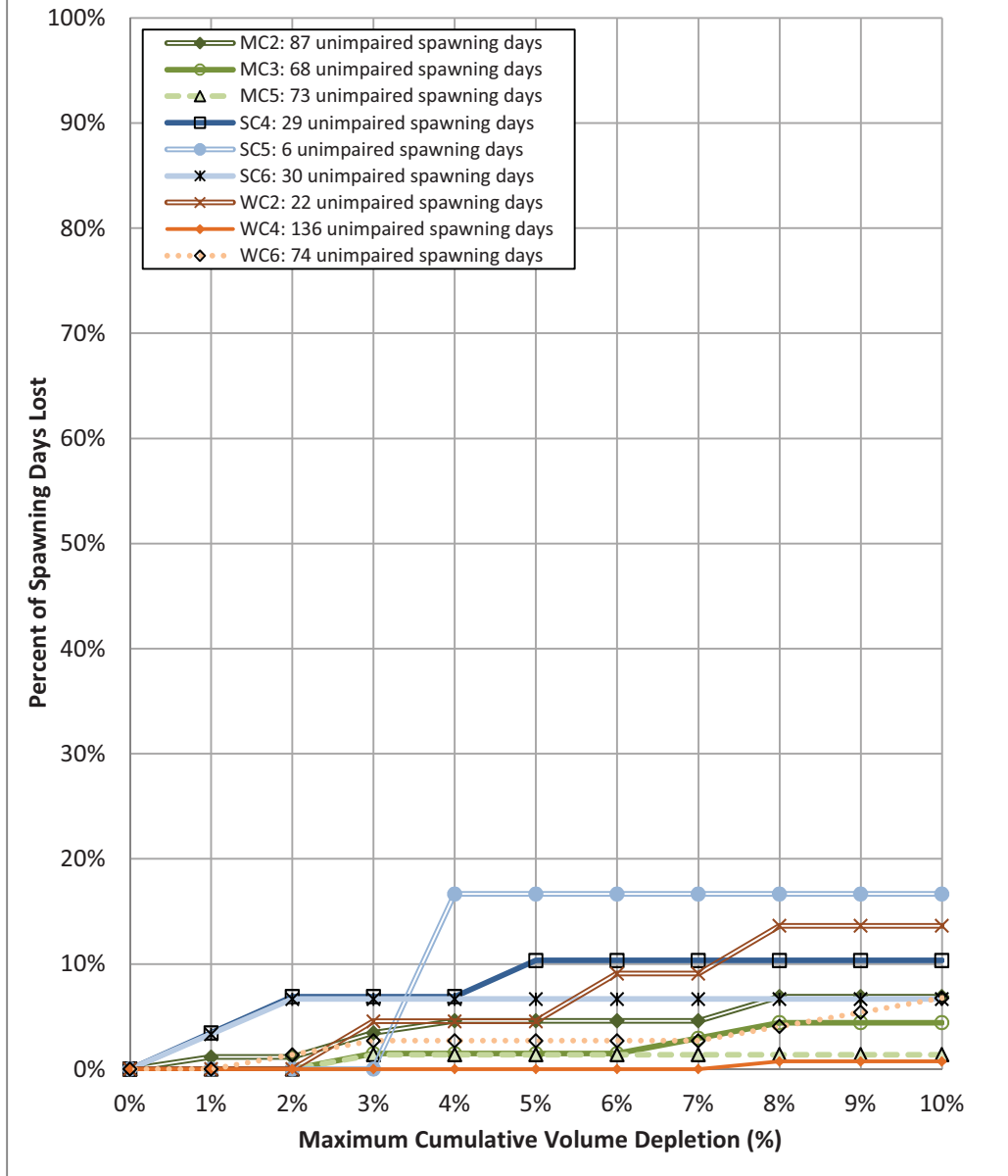
Number of Unimpaired Spawning Days Lost

Scenario A1, January



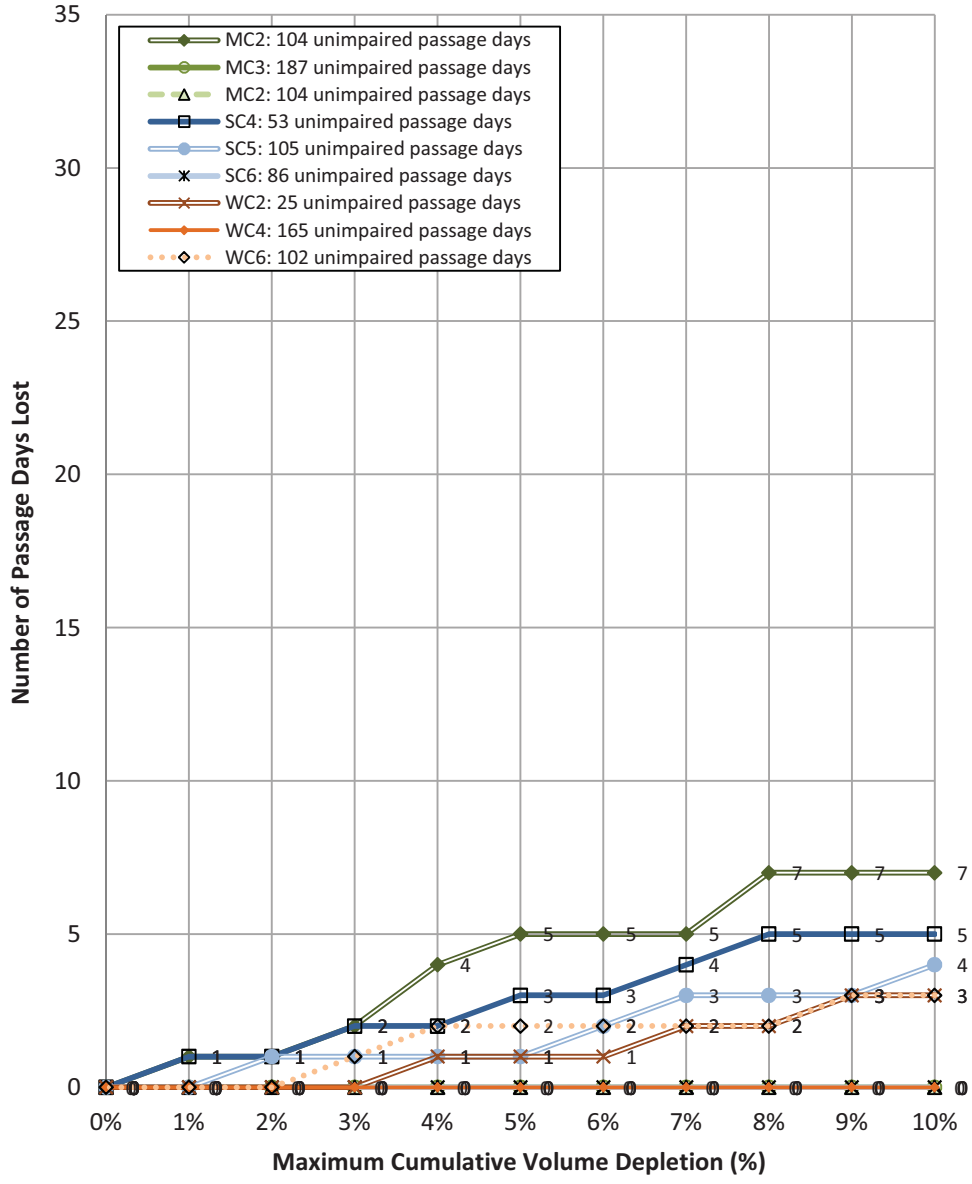
Percent of Unimpaired Spawning Days Lost

Scenario A1, January



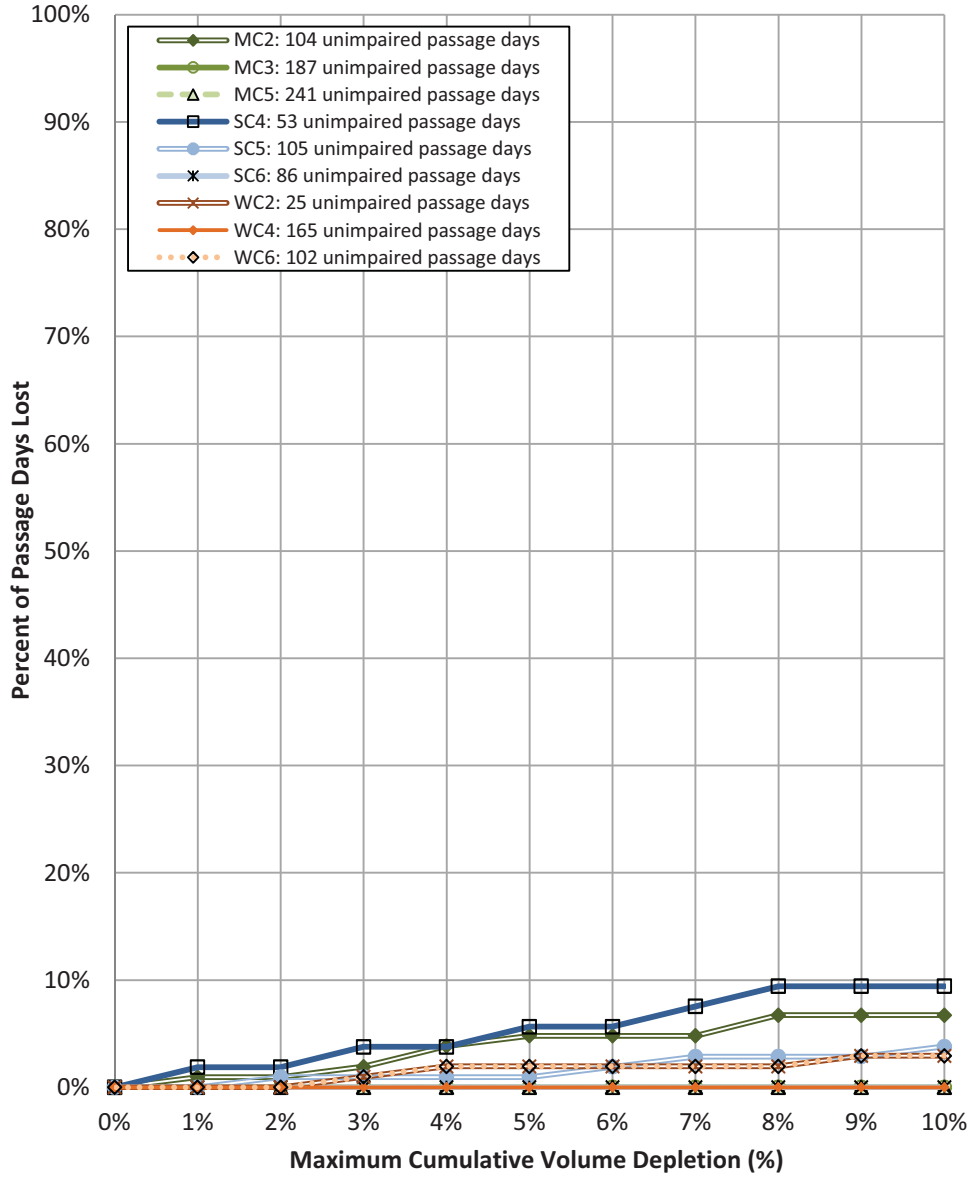
Number of Unimpaired Passage Days Lost

Scenario A1, January



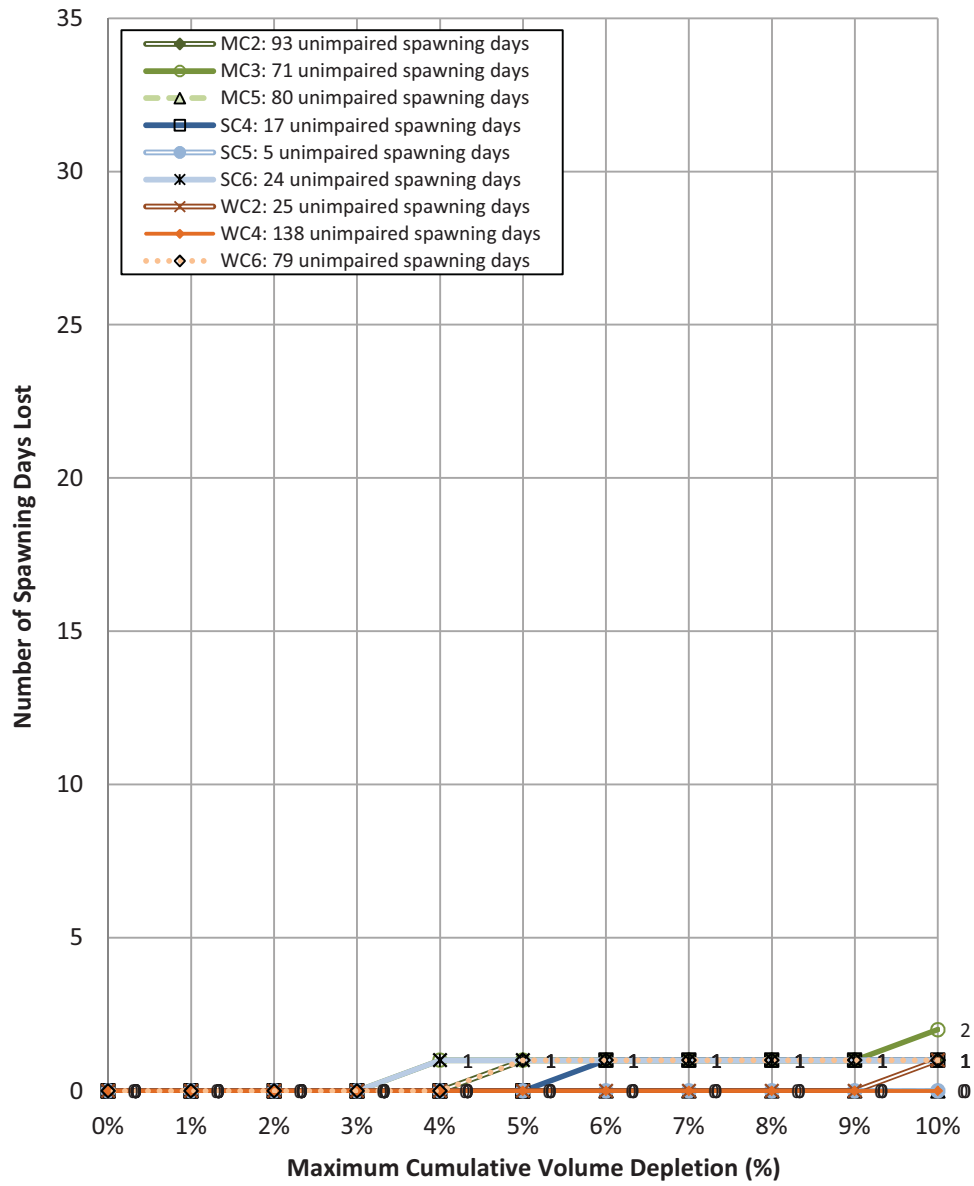
Percent of Unimpaired Passage Days Lost

Scenario A1, January



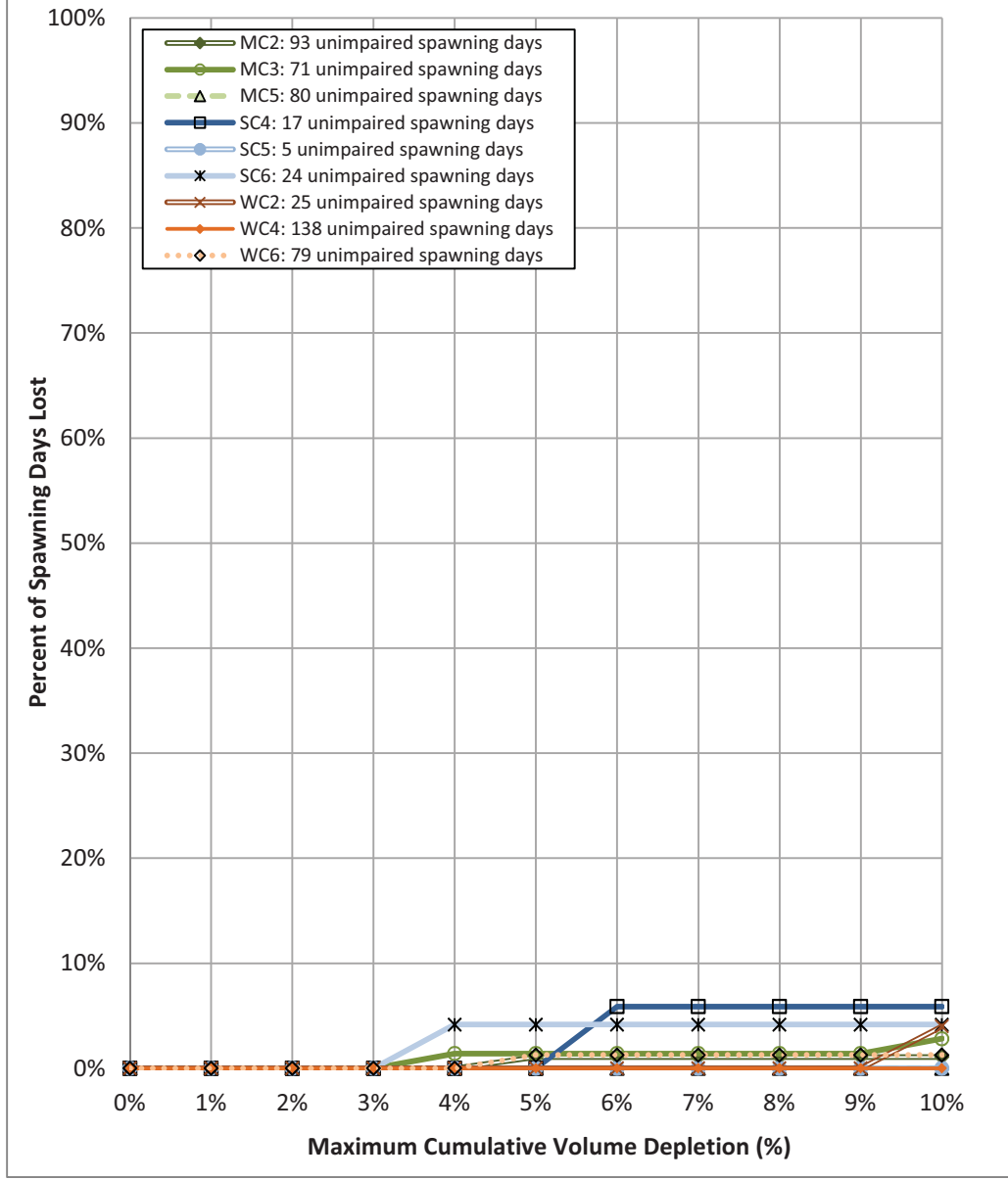
Number of Unimpaired Spawning Days Lost

Scenario A1, February



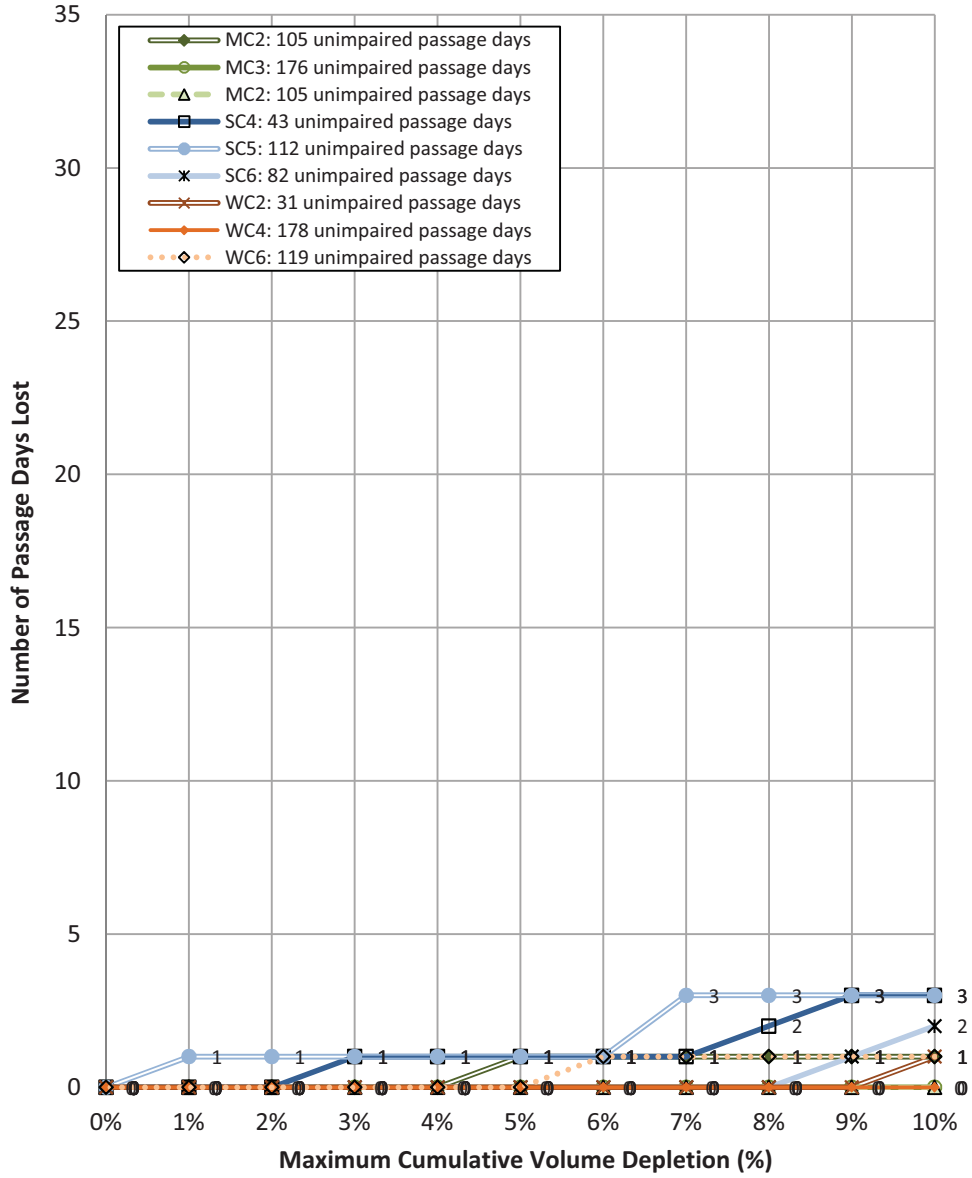
Percent of Unimpaired Spawning Days Lost

Scenario A1, February



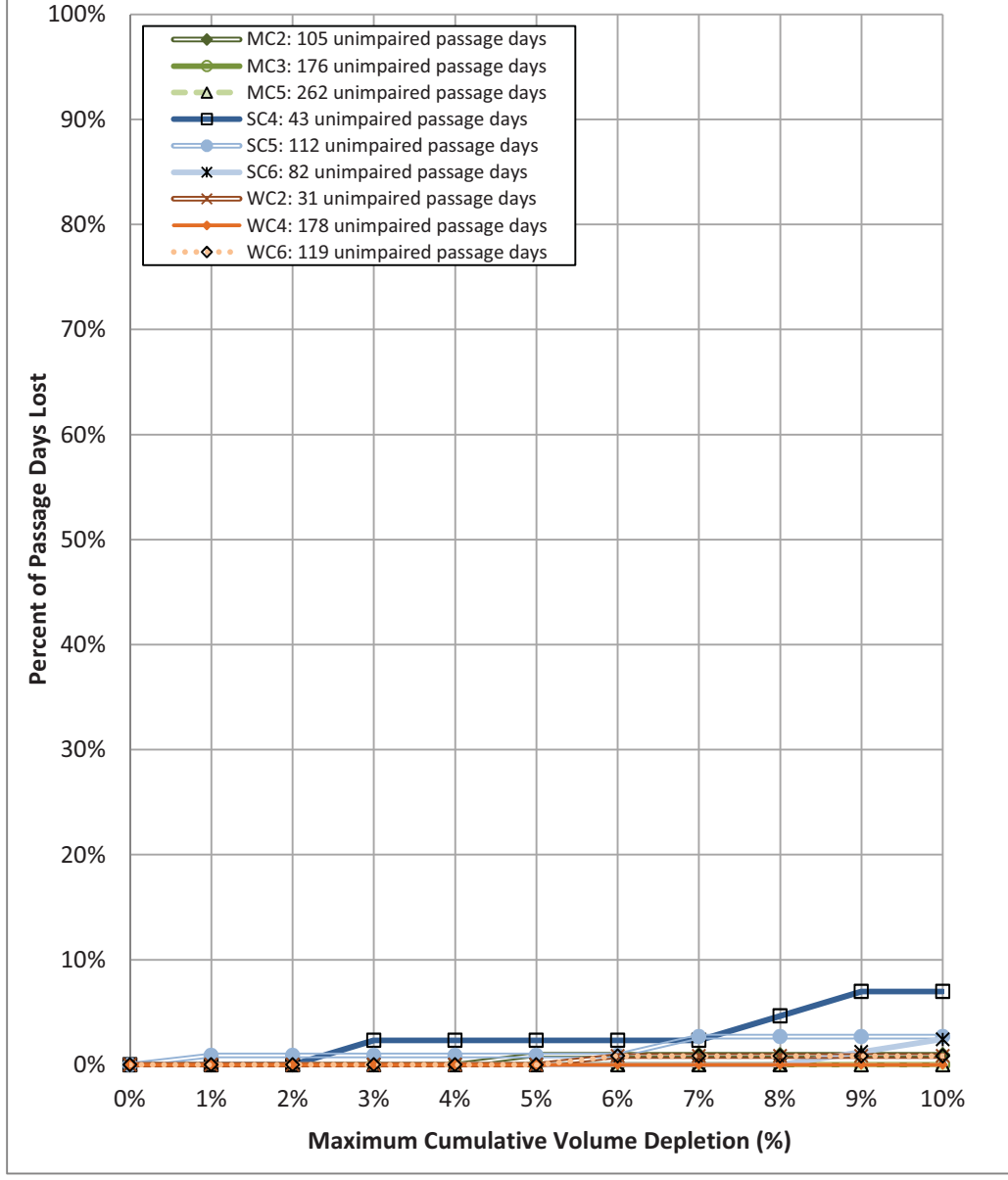
Number of Unimpaired Passage Days Lost

Scenario A1, February



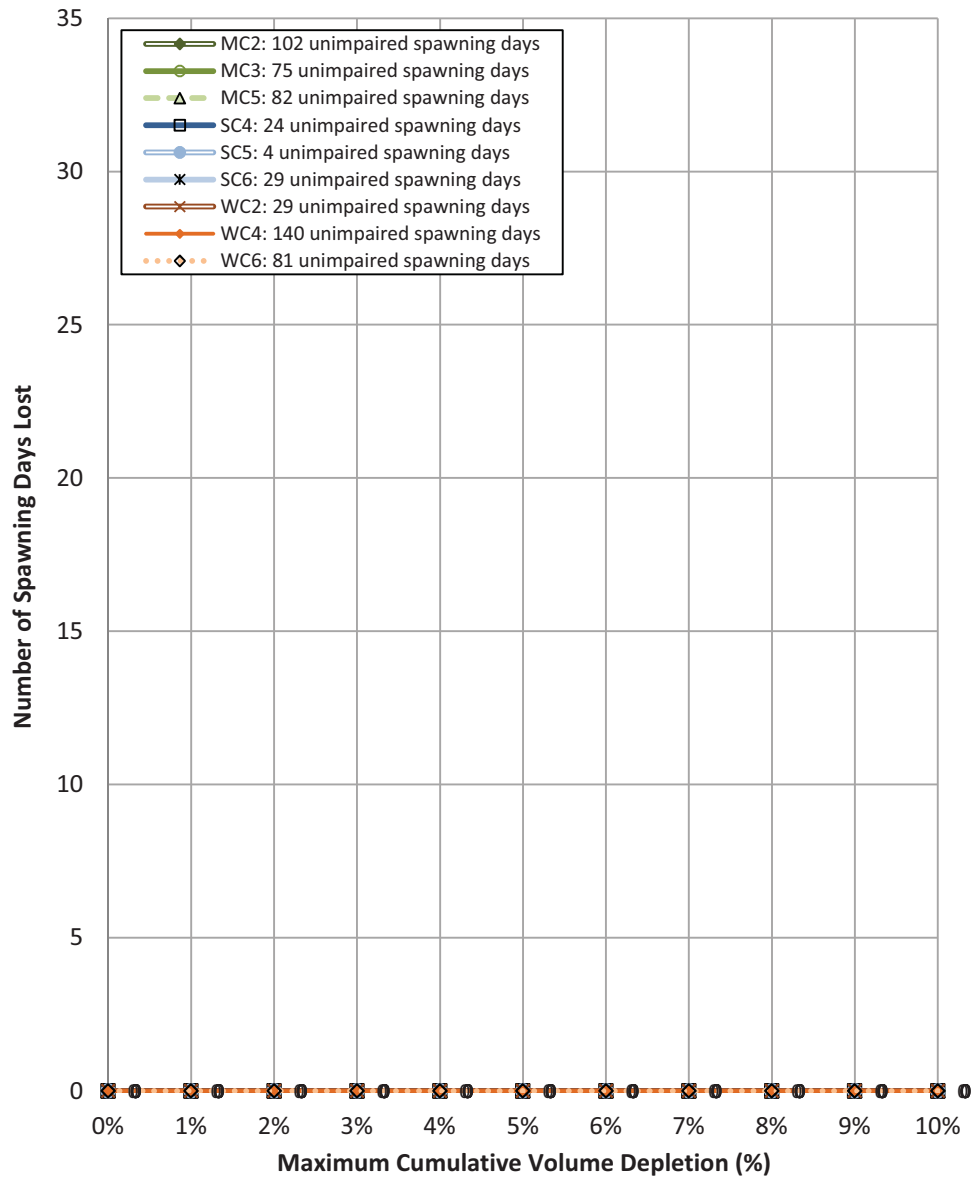
Percent of Unimpaired Passage Days Lost

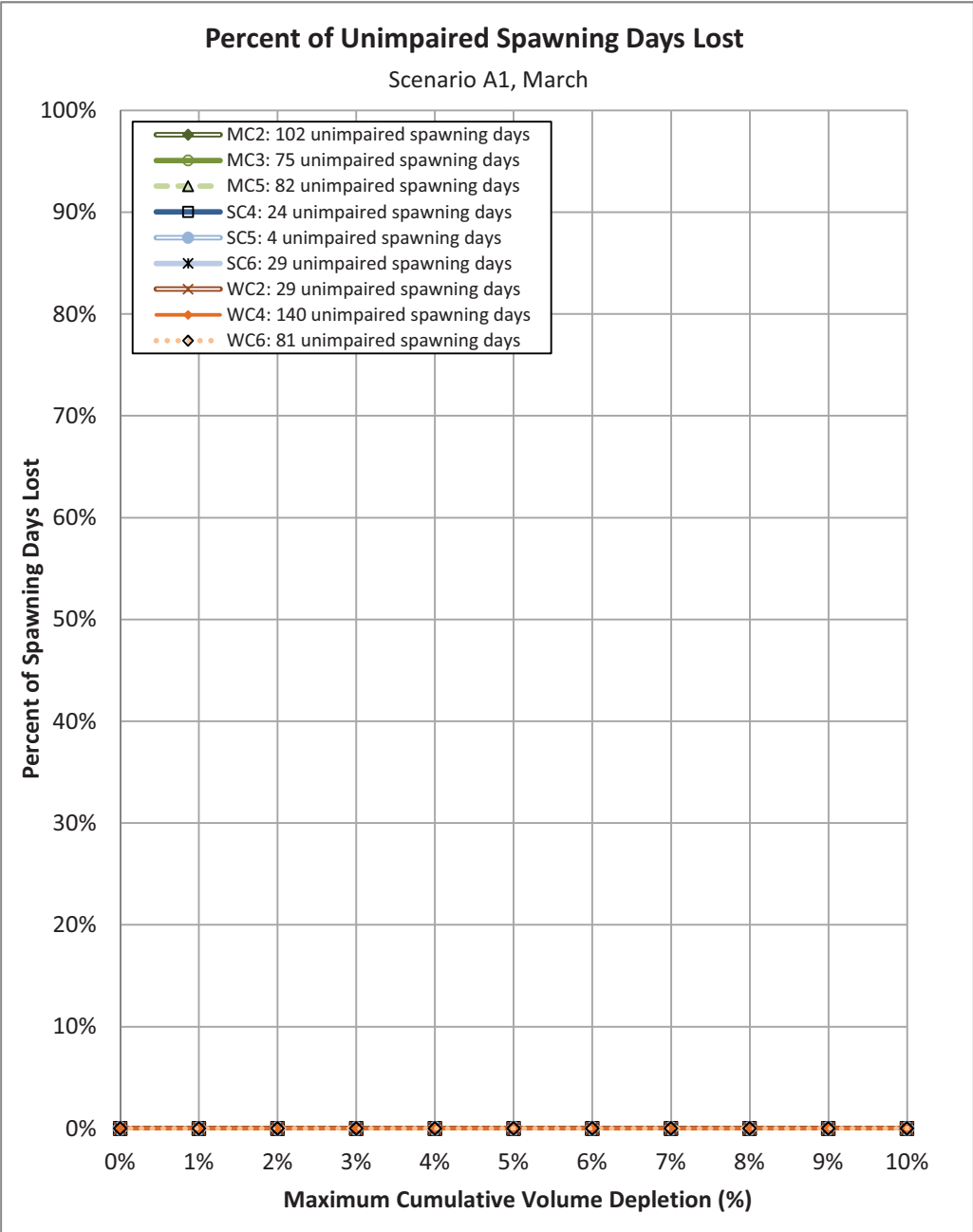
Scenario A1, February



Number of Unimpaired Spawning Days Lost

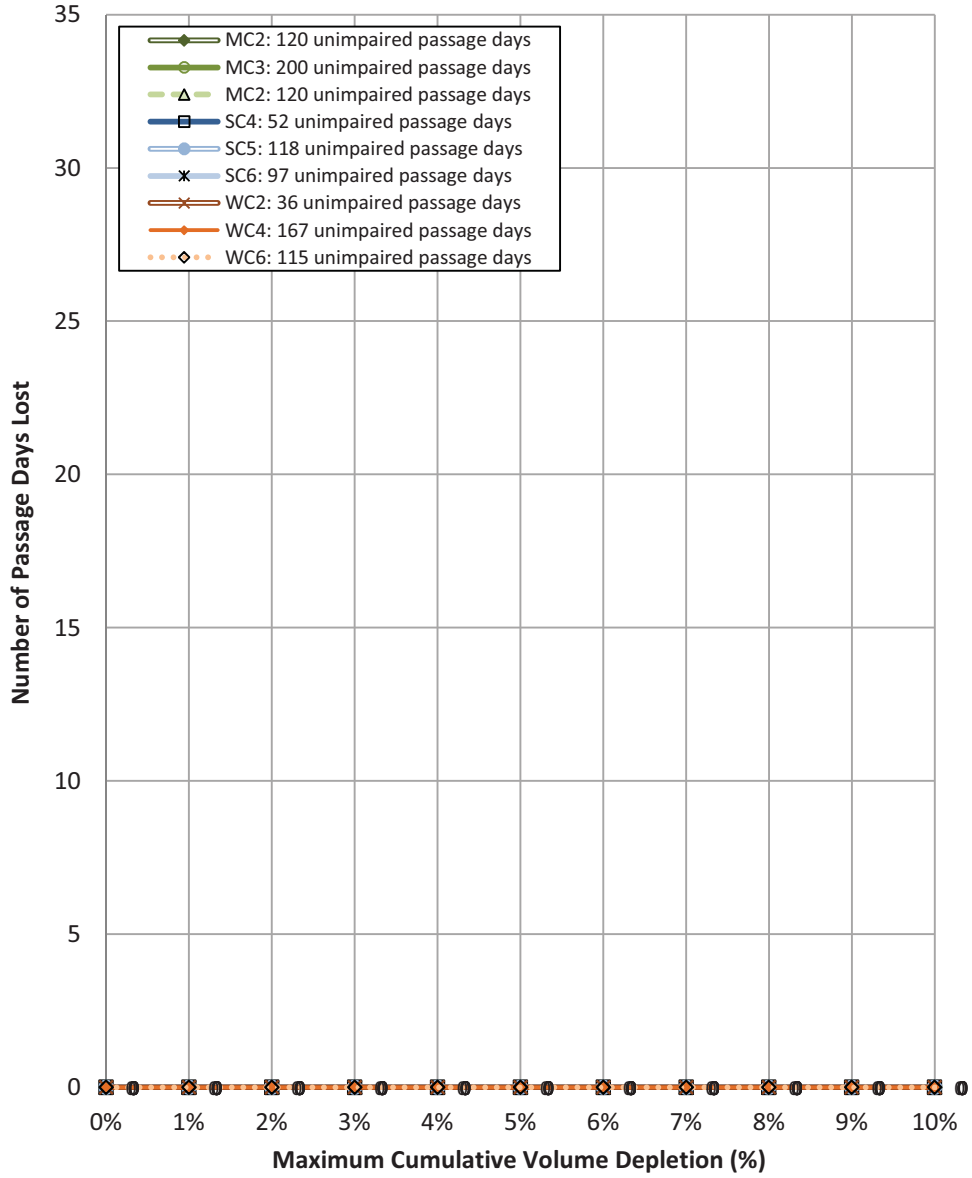
Scenario A1, March

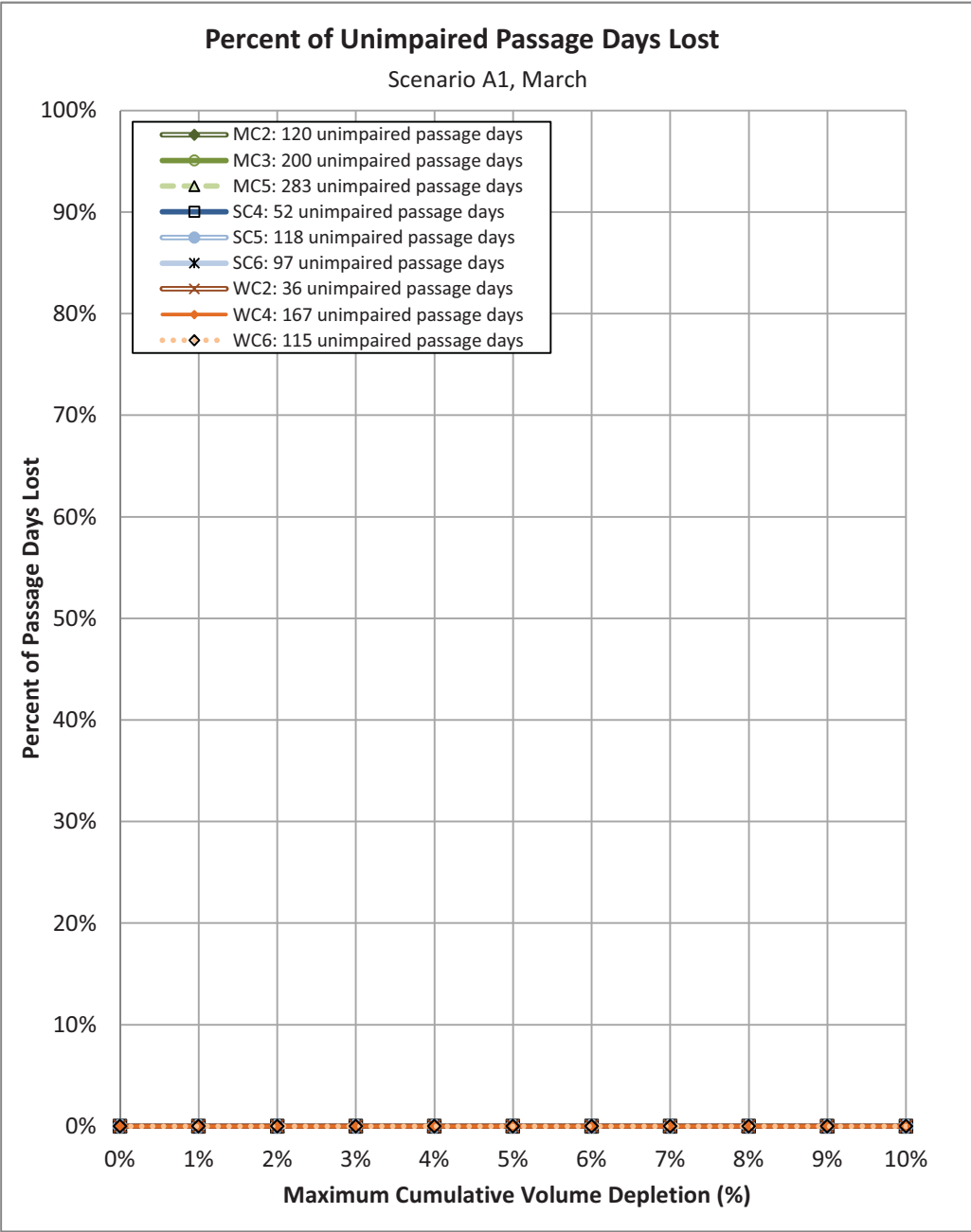




Number of Unimpaired Passage Days Lost

Scenario A1, March





4. Appendix E: Scenario A2 Passage and Spawning Day Tables, Graphs

Table E-37 Unimpaired and Impaired Passage Days in October, Scenario A2

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 14 | 23 | 43 | 4 | 7 | 7 | 0 | 0 | 8 |

| Maximum Cumulative Volume Depletion (%) | Impaired Passage Days | | | | | | | | |
|---|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 14 | 23 | 43 | 4 | 7 | 7 | 0 | 0 | 8 |
| 9% | 14 | 23 | 43 | 4 | 7 | 7 | 0 | 0 | 8 |
| 8% | 14 | 23 | 43 | 4 | 7 | 7 | 0 | 0 | 8 |
| 7% | 14 | 23 | 43 | 4 | 7 | 7 | 0 | 0 | 8 |
| 6% | 14 | 23 | 43 | 4 | 7 | 7 | 0 | 0 | 8 |
| 5% | 14 | 23 | 43 | 4 | 7 | 7 | 0 | 0 | 8 |
| 4% | 14 | 23 | 43 | 4 | 7 | 7 | 0 | 0 | 8 |
| 3% | 14 | 23 | 43 | 4 | 7 | 7 | 0 | 0 | 8 |
| 2% | 14 | 23 | 43 | 4 | 7 | 7 | 0 | 0 | 8 |
| 1% | 14 | 23 | 43 | 4 | 7 | 7 | 0 | 0 | 8 |
| 0% | 14 | 23 | 43 | 4 | 7 | 7 | 0 | 0 | 8 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Passage Days Lost | | | | | | | | |
|---|---|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | - | - | - | - | - | - | - | - | - |
| 9% | - | - | - | - | - | - | - | - | - |
| 8% | - | - | - | - | - | - | - | - | - |
| 7% | - | - | - | - | - | - | - | - | - |
| 6% | - | - | - | - | - | - | - | - | - |
| 5% | - | - | - | - | - | - | - | - | - |
| 4% | - | - | - | - | - | - | - | - | - |
| 3% | - | - | - | - | - | - | - | - | - |
| 2% | - | - | - | - | - | - | - | - | - |
| 1% | - | - | - | - | - | - | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of passage days

Table E-38 Unimpaired and Impaired Spawning Days in October, Scenario A2

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 9 | 6 | 6 | 0 | 0 | 1 | 0 | 0 | 1 |

| Maximum Cumulative Volume Depletion (%) | Impaired Spawning Days | | | | | | | | |
|---|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 9 | 6 | 6 | 0 | 0 | 0 | 0 | 0 | 1 |
| 9% | 9 | 6 | 6 | 0 | 0 | 0 | 0 | 0 | 1 |
| 8% | 9 | 6 | 6 | 0 | 0 | 0 | 0 | 0 | 1 |
| 7% | 9 | 6 | 6 | 0 | 0 | 0 | 0 | 0 | 1 |
| 6% | 9 | 6 | 6 | 0 | 0 | 0 | 0 | 0 | 1 |
| 5% | 9 | 6 | 6 | 0 | 0 | 0 | 0 | 0 | 1 |
| 4% | 9 | 6 | 6 | 0 | 0 | 0 | 0 | 0 | 1 |
| 3% | 9 | 6 | 6 | 0 | 0 | 1 | 0 | 0 | 1 |
| 2% | 9 | 6 | 6 | 0 | 0 | 1 | 0 | 0 | 1 |
| 1% | 9 | 6 | 6 | 0 | 0 | 1 | 0 | 0 | 1 |
| 0% | 9 | 6 | 6 | 0 | 0 | 1 | 0 | 0 | 1 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Spawning Days Lost | | | | | | | | |
|---|--|-----|-----|-----|-----|------|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | - | - | - | - | - | 100% | - | - | - |
| 9% | - | - | - | - | - | 100% | - | - | - |
| 8% | - | - | - | - | - | 100% | - | - | - |
| 7% | - | - | - | - | - | 100% | - | - | - |
| 6% | - | - | - | - | - | 100% | - | - | - |
| 5% | - | - | - | - | - | 100% | - | - | - |
| 4% | - | - | - | - | - | 100% | - | - | - |
| 3% | - | - | - | - | - | - | - | - | - |
| 2% | - | - | - | - | - | - | - | - | - |
| 1% | - | - | - | - | - | - | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Notes:

'-' indicates no loss of spawning days

Spawning is not usual in October; results provided only for comparison.

Table E-39 Unimpaired and Impaired Passage Days in November, Scenario A2

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 12 | 36 | 94 | 2 | 6 | 4 | 1 | 3 | 7 |

| Maximum Cumulative Volume Depletion (%) | Impaired Passage Days | | | | | | | | |
|---|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 12 | 36 | 94 | 2 | 6 | 4 | 1 | 3 | 7 |
| 9% | 12 | 36 | 94 | 2 | 6 | 4 | 1 | 3 | 7 |
| 8% | 12 | 36 | 94 | 2 | 6 | 4 | 1 | 3 | 7 |
| 7% | 12 | 36 | 94 | 2 | 6 | 4 | 1 | 3 | 7 |
| 6% | 12 | 36 | 94 | 2 | 6 | 4 | 1 | 3 | 7 |
| 5% | 12 | 36 | 94 | 2 | 6 | 4 | 1 | 3 | 7 |
| 4% | 12 | 36 | 94 | 2 | 6 | 4 | 1 | 3 | 7 |
| 3% | 12 | 36 | 94 | 2 | 6 | 4 | 1 | 3 | 7 |
| 2% | 12 | 36 | 94 | 2 | 6 | 4 | 1 | 3 | 7 |
| 1% | 12 | 36 | 94 | 2 | 6 | 4 | 1 | 3 | 7 |
| 0% | 12 | 36 | 94 | 2 | 6 | 4 | 1 | 3 | 7 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Passage Days Lost | | | | | | | | |
|---|---|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | - | - | - | - | - | - | - | - | - |
| 9% | - | - | - | - | - | - | - | - | - |
| 8% | - | - | - | - | - | - | - | - | - |
| 7% | - | - | - | - | - | - | - | - | - |
| 6% | - | - | - | - | - | - | - | - | - |
| 5% | - | - | - | - | - | - | - | - | - |
| 4% | - | - | - | - | - | - | - | - | - |
| 3% | - | - | - | - | - | - | - | - | - |
| 2% | - | - | - | - | - | - | - | - | - |
| 1% | - | - | - | - | - | - | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of passage days

Table E-40 Unimpaired and Impaired Spawning Days in November, Scenario A2

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 8 | 3 | 6 | 1 | 1 | 1 | 1 | 1 | 1 |

| Maximum Cumulative Volume Depletion (%) | Impaired Spawning Days | | | | | | | | |
|---|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 8 | 3 | 6 | 1 | 1 | 1 | 1 | 1 | 1 |
| 9% | 8 | 3 | 6 | 1 | 1 | 1 | 1 | 1 | 1 |
| 8% | 8 | 3 | 6 | 1 | 1 | 1 | 1 | 1 | 1 |
| 7% | 8 | 3 | 6 | 1 | 1 | 1 | 1 | 1 | 1 |
| 6% | 8 | 3 | 6 | 1 | 1 | 1 | 1 | 1 | 1 |
| 5% | 8 | 3 | 6 | 1 | 1 | 1 | 1 | 1 | 1 |
| 4% | 8 | 3 | 6 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3% | 8 | 3 | 6 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2% | 8 | 3 | 6 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1% | 8 | 3 | 6 | 1 | 1 | 1 | 1 | 1 | 1 |
| 0% | 8 | 3 | 6 | 1 | 1 | 1 | 1 | 1 | 1 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Spawning Days Lost | | | | | | | | |
|---|--|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | - | - | - | - | - | - | - | - | - |
| 9% | - | - | - | - | - | - | - | - | - |
| 8% | - | - | - | - | - | - | - | - | - |
| 7% | - | - | - | - | - | - | - | - | - |
| 6% | - | - | - | - | - | - | - | - | - |
| 5% | - | - | - | - | - | - | - | - | - |
| 4% | - | - | - | - | - | - | - | - | - |
| 3% | - | - | - | - | - | - | - | - | - |
| 2% | - | - | - | - | - | - | - | - | - |
| 1% | - | - | - | - | - | - | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of spawning days

Table E-41 Unimpaired and Impaired Passage Days in December, Scenario A2

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | 112 | 162 | 217 | 46 | 75 | 66 | 33 | 99 |

| Maximum Cumulative Volume Depletion (%) | Impaired Passage Days | | | | | | | | |
|---|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 112 | 162 | 217 | 46 | 75 | 66 | 33 | 99 | 84 |
| 9% | 112 | 162 | 217 | 46 | 75 | 66 | 33 | 99 | 84 |
| 8% | 112 | 162 | 217 | 46 | 75 | 66 | 33 | 99 | 84 |
| 7% | 112 | 162 | 217 | 46 | 75 | 66 | 33 | 99 | 84 |
| 6% | 112 | 162 | 217 | 46 | 75 | 66 | 33 | 99 | 84 |
| 5% | 112 | 162 | 217 | 46 | 75 | 66 | 33 | 99 | 84 |
| 4% | 112 | 162 | 217 | 46 | 75 | 66 | 33 | 99 | 84 |
| 3% | 112 | 162 | 217 | 46 | 75 | 66 | 33 | 99 | 84 |
| 2% | 112 | 162 | 217 | 46 | 75 | 66 | 33 | 99 | 84 |
| 1% | 112 | 162 | 217 | 46 | 75 | 66 | 33 | 99 | 84 |
| 0% | 112 | 162 | 217 | 46 | 75 | 66 | 33 | 99 | 84 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Passage Days Lost | | | | | | | | |
|---|---|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | - | - | - | - | - | - | - | - | - |
| 9% | - | - | - | - | - | - | - | - | - |
| 8% | - | - | - | - | - | - | - | - | - |
| 7% | - | - | - | - | - | - | - | - | - |
| 6% | - | - | - | - | - | - | - | - | - |
| 5% | - | - | - | - | - | - | - | - | - |
| 4% | - | - | - | - | - | - | - | - | - |
| 3% | - | - | - | - | - | - | - | - | - |
| 2% | - | - | - | - | - | - | - | - | - |
| 1% | - | - | - | - | - | - | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of passage days

Table E-42 Unimpaired and Impaired Spawning Days in December, Scenario A2

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 101 | 85 | 93 | 34 | 10 | 35 | 30 | 75 | 69 |

| Maximum Cumulative Volume Depletion (%) | Impaired Spawning Days | | | | | | | | |
|---|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 101 | 85 | 93 | 29 | 8 | 35 | 30 | 75 | 69 |
| 9% | 101 | 85 | 93 | 29 | 8 | 35 | 30 | 75 | 69 |
| 8% | 101 | 85 | 93 | 29 | 8 | 35 | 30 | 75 | 69 |
| 7% | 101 | 85 | 93 | 29 | 8 | 35 | 30 | 75 | 69 |
| 6% | 101 | 85 | 93 | 30 | 8 | 35 | 30 | 75 | 69 |
| 5% | 101 | 85 | 93 | 31 | 8 | 35 | 30 | 75 | 69 |
| 4% | 101 | 85 | 93 | 31 | 8 | 35 | 30 | 75 | 69 |
| 3% | 101 | 85 | 93 | 32 | 8 | 35 | 30 | 75 | 69 |
| 2% | 101 | 85 | 93 | 32 | 9 | 35 | 30 | 75 | 69 |
| 1% | 101 | 85 | 93 | 32 | 10 | 35 | 30 | 75 | 69 |
| 0% | 101 | 85 | 93 | 34 | 10 | 35 | 30 | 75 | 69 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Spawning Days Lost | | | | | | | | |
|---|--|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | - | - | - | 15% | 20% | - | - | - | - |
| 9% | - | - | - | 15% | 20% | - | - | - | - |
| 8% | - | - | - | 15% | 20% | - | - | - | - |
| 7% | - | - | - | 15% | 20% | - | - | - | - |
| 6% | - | - | - | 12% | 20% | - | - | - | - |
| 5% | - | - | - | 9% | 20% | - | - | - | - |
| 4% | - | - | - | 9% | 20% | - | - | - | - |
| 3% | - | - | - | 6% | 20% | - | - | - | - |
| 2% | - | - | - | 6% | 10% | - | - | - | - |
| 1% | - | - | - | 6% | - | - | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of spawning days

Table E-43 Unimpaired and Impaired Passage Days in January, Scenario A2

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 104 | 187 | 241 | 53 | 105 | 86 | 25 | 165 | 102 |

| Maximum Cumulative Volume Depletion (%) | Impaired Passage Days | | | | | | | | |
|---|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 104 | 187 | 241 | 53 | 105 | 86 | 25 | 165 | 102 |
| 9% | 104 | 187 | 241 | 53 | 105 | 86 | 25 | 165 | 102 |
| 8% | 104 | 187 | 241 | 53 | 105 | 86 | 25 | 165 | 102 |
| 7% | 104 | 187 | 241 | 53 | 105 | 86 | 25 | 165 | 102 |
| 6% | 104 | 187 | 241 | 53 | 105 | 86 | 25 | 165 | 102 |
| 5% | 104 | 187 | 241 | 53 | 105 | 86 | 25 | 165 | 102 |
| 4% | 104 | 187 | 241 | 53 | 105 | 86 | 25 | 165 | 102 |
| 3% | 104 | 187 | 241 | 53 | 105 | 86 | 25 | 165 | 102 |
| 2% | 104 | 187 | 241 | 53 | 105 | 86 | 25 | 165 | 102 |
| 1% | 104 | 187 | 241 | 53 | 105 | 86 | 25 | 165 | 102 |
| 0% | 104 | 187 | 241 | 53 | 105 | 86 | 25 | 165 | 102 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Passage Days Lost | | | | | | | | |
|---|---|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | - | - | - | - | - | - | - | - | - |
| 9% | - | - | - | - | - | - | - | - | - |
| 8% | - | - | - | - | - | - | - | - | - |
| 7% | - | - | - | - | - | - | - | - | - |
| 6% | - | - | - | - | - | - | - | - | - |
| 5% | - | - | - | - | - | - | - | - | - |
| 4% | - | - | - | - | - | - | - | - | - |
| 3% | - | - | - | - | - | - | - | - | - |
| 2% | - | - | - | - | - | - | - | - | - |
| 1% | - | - | - | - | - | - | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of passage days

Table E-44 Unimpaired and Impaired Spawning Days in January, Scenario A2

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 87 | 68 | 73 | 29 | 6 | 30 | 22 | 136 | 74 |

| Maximum Cumulative Volume Depletion (%) | Impaired Spawning Days | | | | | | | | |
|---|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 87 | 68 | 73 | 26 | 4 | 29 | 22 | 136 | 74 |
| 9% | 87 | 68 | 73 | 26 | 4 | 29 | 22 | 136 | 74 |
| 8% | 87 | 68 | 73 | 26 | 4 | 29 | 22 | 136 | 74 |
| 7% | 87 | 68 | 73 | 26 | 4 | 29 | 22 | 136 | 74 |
| 6% | 87 | 68 | 73 | 26 | 5 | 29 | 22 | 136 | 74 |
| 5% | 87 | 68 | 73 | 26 | 5 | 29 | 22 | 136 | 74 |
| 4% | 87 | 68 | 73 | 26 | 5 | 29 | 22 | 136 | 74 |
| 3% | 87 | 68 | 73 | 27 | 5 | 29 | 22 | 136 | 74 |
| 2% | 87 | 68 | 73 | 27 | 6 | 29 | 22 | 136 | 74 |
| 1% | 87 | 68 | 73 | 28 | 6 | 29 | 22 | 136 | 74 |
| 0% | 87 | 68 | 73 | 29 | 6 | 30 | 22 | 136 | 74 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Spawning Days Lost | | | | | | | | |
|---|--|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | - | - | - | 10% | 33% | 3% | - | - | - |
| 9% | - | - | - | 10% | 33% | 3% | - | - | - |
| 8% | - | - | - | 10% | 33% | 3% | - | - | - |
| 7% | - | - | - | 10% | 33% | 3% | - | - | - |
| 6% | - | - | - | 10% | 17% | 3% | - | - | - |
| 5% | - | - | - | 10% | 17% | 3% | - | - | - |
| 4% | - | - | - | 10% | 17% | 3% | - | - | - |
| 3% | - | - | - | 7% | 17% | 3% | - | - | - |
| 2% | - | - | - | 7% | - | 3% | - | - | - |
| 1% | - | - | - | 3% | - | 3% | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of spawning days

Table E-45 Unimpaired and Impaired Passage Days in February, Scenario A2

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | 105 | 176 | 262 | 43 | 112 | 82 | 31 | 178 |

| Maximum Cumulative Volume Depletion (%) | Impaired Passage Days | | | | | | | | |
|---|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 105 | 176 | 262 | 43 | 112 | 82 | 31 | 178 | 119 |
| 9% | 105 | 176 | 262 | 43 | 112 | 82 | 31 | 178 | 119 |
| 8% | 105 | 176 | 262 | 43 | 112 | 82 | 31 | 178 | 119 |
| 7% | 105 | 176 | 262 | 43 | 112 | 82 | 31 | 178 | 119 |
| 6% | 105 | 176 | 262 | 43 | 112 | 82 | 31 | 178 | 119 |
| 5% | 105 | 176 | 262 | 43 | 112 | 82 | 31 | 178 | 119 |
| 4% | 105 | 176 | 262 | 43 | 112 | 82 | 31 | 178 | 119 |
| 3% | 105 | 176 | 262 | 43 | 112 | 82 | 31 | 178 | 119 |
| 2% | 105 | 176 | 262 | 43 | 112 | 82 | 31 | 178 | 119 |
| 1% | 105 | 176 | 262 | 43 | 112 | 82 | 31 | 178 | 119 |
| 0% | 105 | 176 | 262 | 43 | 112 | 82 | 31 | 178 | 119 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Passage Days Lost | | | | | | | | |
|---|---|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | - | - | - | - | - | - | - | - | - |
| 9% | - | - | - | - | - | - | - | - | - |
| 8% | - | - | - | - | - | - | - | - | - |
| 7% | - | - | - | - | - | - | - | - | - |
| 6% | - | - | - | - | - | - | - | - | - |
| 5% | - | - | - | - | - | - | - | - | - |
| 4% | - | - | - | - | - | - | - | - | - |
| 3% | - | - | - | - | - | - | - | - | - |
| 2% | - | - | - | - | - | - | - | - | - |
| 1% | - | - | - | - | - | - | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of passage days

Table E-46 Unimpaired and Impaired Spawning Days in February, Scenario A2

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 93 | 71 | 80 | 17 | 5 | 24 | 25 | 138 | 79 |

| Maximum Cumulative Volume Depletion (%) | Impaired Spawning Days | | | | | | | | |
|---|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 93 | 71 | 80 | 17 | 5 | 24 | 25 | 138 | 79 |
| 9% | 93 | 71 | 80 | 17 | 5 | 24 | 25 | 138 | 79 |
| 8% | 93 | 71 | 80 | 17 | 5 | 24 | 25 | 138 | 79 |
| 7% | 93 | 71 | 80 | 17 | 5 | 24 | 25 | 138 | 79 |
| 6% | 93 | 71 | 80 | 17 | 5 | 24 | 25 | 138 | 79 |
| 5% | 93 | 71 | 80 | 17 | 5 | 24 | 25 | 138 | 79 |
| 4% | 93 | 71 | 80 | 17 | 5 | 24 | 25 | 138 | 79 |
| 3% | 93 | 71 | 80 | 17 | 5 | 24 | 25 | 138 | 79 |
| 2% | 93 | 71 | 80 | 17 | 5 | 24 | 25 | 138 | 79 |
| 1% | 93 | 71 | 80 | 17 | 5 | 24 | 25 | 138 | 79 |
| 0% | 93 | 71 | 80 | 17 | 5 | 24 | 25 | 138 | 79 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Spawning Days Lost | | | | | | | | |
|---|--|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | - | - | - | - | - | - | - | - | - |
| 9% | - | - | - | - | - | - | - | - | - |
| 8% | - | - | - | - | - | - | - | - | - |
| 7% | - | - | - | - | - | - | - | - | - |
| 6% | - | - | - | - | - | - | - | - | - |
| 5% | - | - | - | - | - | - | - | - | - |
| 4% | - | - | - | - | - | - | - | - | - |
| 3% | - | - | - | - | - | - | - | - | - |
| 2% | - | - | - | - | - | - | - | - | - |
| 1% | - | - | - | - | - | - | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of spawning days

Table E-47 Unimpaired and Impaired Passage Days in March, Scenario A2

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | 120 | 200 | 283 | 52 | 118 | 97 | 36 | 167 |

| Maximum Cumulative Volume Depletion (%) | Impaired Passage Days | | | | | | | | |
|---|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 120 | 200 | 283 | 52 | 118 | 97 | 36 | 167 | 115 |
| 9% | 120 | 200 | 283 | 52 | 118 | 97 | 36 | 167 | 115 |
| 8% | 120 | 200 | 283 | 52 | 118 | 97 | 36 | 167 | 115 |
| 7% | 120 | 200 | 283 | 52 | 118 | 97 | 36 | 167 | 115 |
| 6% | 120 | 200 | 283 | 52 | 118 | 97 | 36 | 167 | 115 |
| 5% | 120 | 200 | 283 | 52 | 118 | 97 | 36 | 167 | 115 |
| 4% | 120 | 200 | 283 | 52 | 118 | 97 | 36 | 167 | 115 |
| 3% | 120 | 200 | 283 | 52 | 118 | 97 | 36 | 167 | 115 |
| 2% | 120 | 200 | 283 | 52 | 118 | 97 | 36 | 167 | 115 |
| 1% | 120 | 200 | 283 | 52 | 118 | 97 | 36 | 167 | 115 |
| 0% | 120 | 200 | 283 | 52 | 118 | 97 | 36 | 167 | 115 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Passage Days Lost | | | | | | | | |
|---|---|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | - | - | - | - | - | - | - | - | - |
| 9% | - | - | - | - | - | - | - | - | - |
| 8% | - | - | - | - | - | - | - | - | - |
| 7% | - | - | - | - | - | - | - | - | - |
| 6% | - | - | - | - | - | - | - | - | - |
| 5% | - | - | - | - | - | - | - | - | - |
| 4% | - | - | - | - | - | - | - | - | - |
| 3% | - | - | - | - | - | - | - | - | - |
| 2% | - | - | - | - | - | - | - | - | - |
| 1% | - | - | - | - | - | - | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of passage days

Table E-48 Unimpaired and Impaired Spawning Days in March, Scenario A2

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 102 | 75 | 82 | 24 | 4 | 29 | 29 | 140 | 81 |

| Maximum Cumulative Volume Depletion (%) | Impaired Spawning Days | | | | | | | | |
|---|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 102 | 75 | 82 | 24 | 3 | 29 | 29 | 140 | 81 |
| 9% | 102 | 75 | 82 | 24 | 3 | 29 | 29 | 140 | 81 |
| 8% | 102 | 75 | 82 | 24 | 3 | 29 | 29 | 140 | 81 |
| 7% | 102 | 75 | 82 | 24 | 4 | 29 | 29 | 140 | 81 |
| 6% | 102 | 75 | 82 | 24 | 4 | 29 | 29 | 140 | 81 |
| 5% | 102 | 75 | 82 | 24 | 4 | 29 | 29 | 140 | 81 |
| 4% | 102 | 75 | 82 | 24 | 4 | 29 | 29 | 140 | 81 |
| 3% | 102 | 75 | 82 | 24 | 4 | 29 | 29 | 140 | 81 |
| 2% | 102 | 75 | 82 | 24 | 4 | 29 | 29 | 140 | 81 |
| 1% | 102 | 75 | 82 | 24 | 4 | 29 | 29 | 140 | 81 |
| 0% | 102 | 75 | 82 | 24 | 4 | 29 | 29 | 140 | 81 |

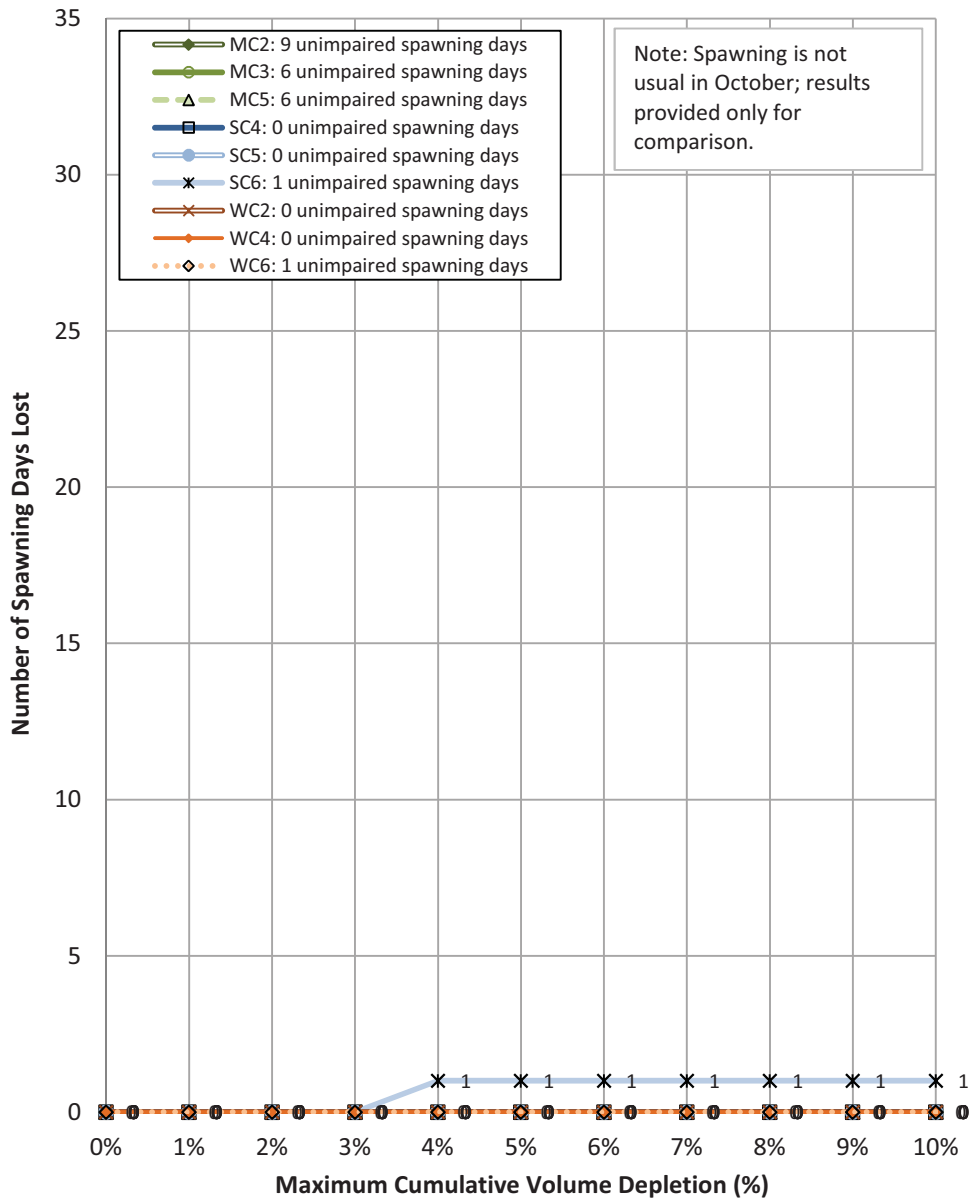
| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Spawning Days Lost | | | | | | | | |
|---|--|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | - | - | - | - | 25% | - | - | - | - |
| 9% | - | - | - | - | 25% | - | - | - | - |
| 8% | - | - | - | - | 25% | - | - | - | - |
| 7% | - | - | - | - | - | - | - | - | - |
| 6% | - | - | - | - | - | - | - | - | - |
| 5% | - | - | - | - | - | - | - | - | - |
| 4% | - | - | - | - | - | - | - | - | - |
| 3% | - | - | - | - | - | - | - | - | - |
| 2% | - | - | - | - | - | - | - | - | - |
| 1% | - | - | - | - | - | - | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

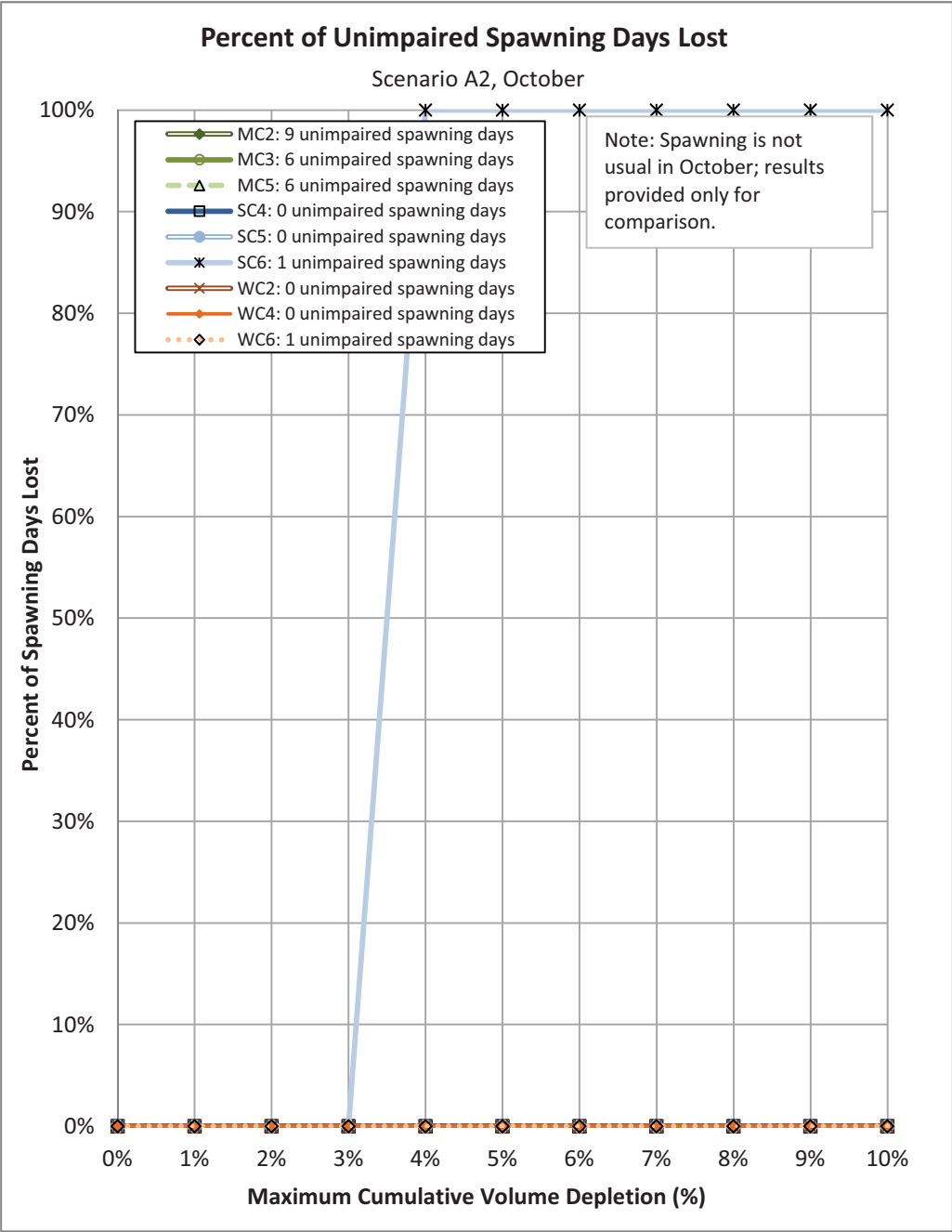
Note:

'-' indicates no loss of spawning days

Number of Unimpaired Spawning Days Lost

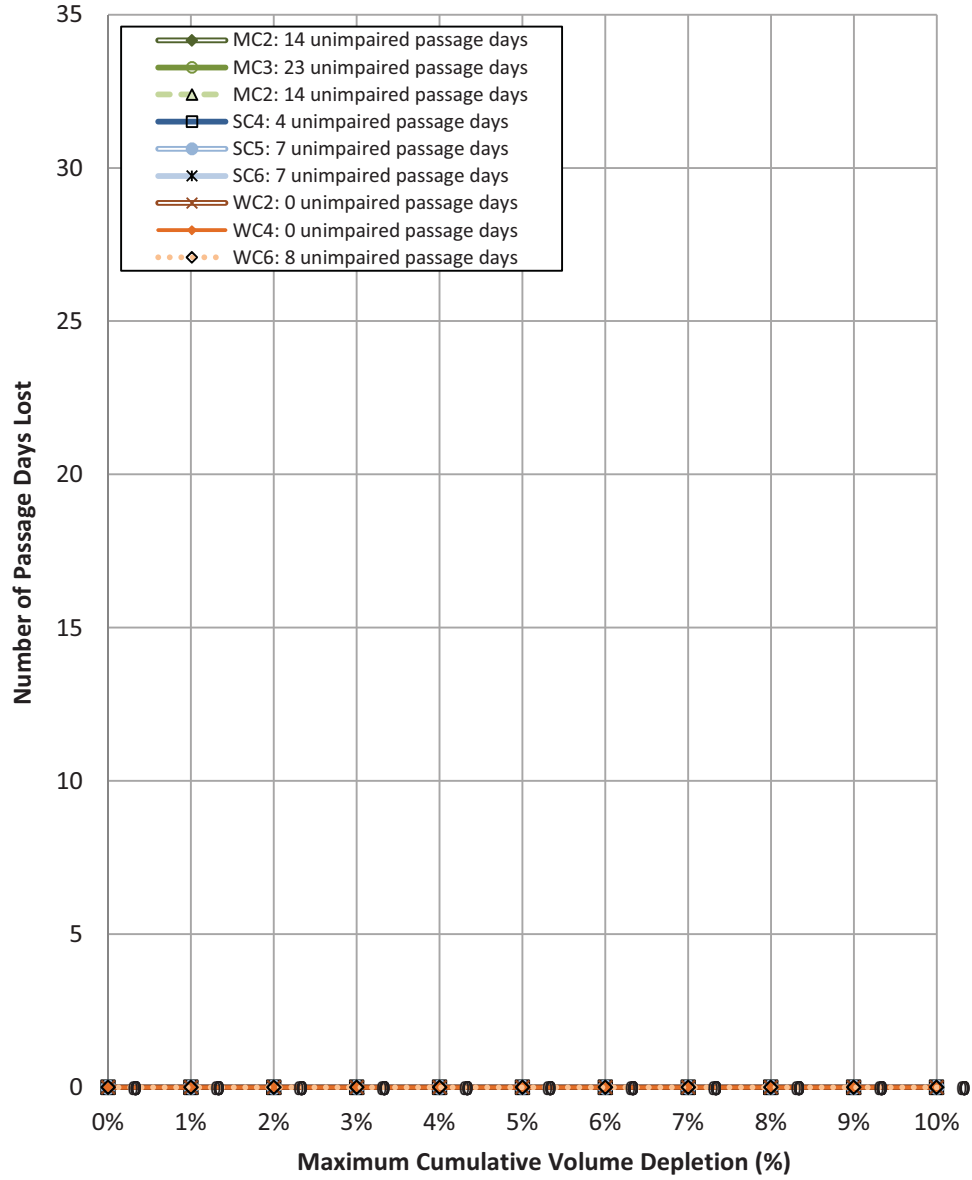
Scenario A2, October





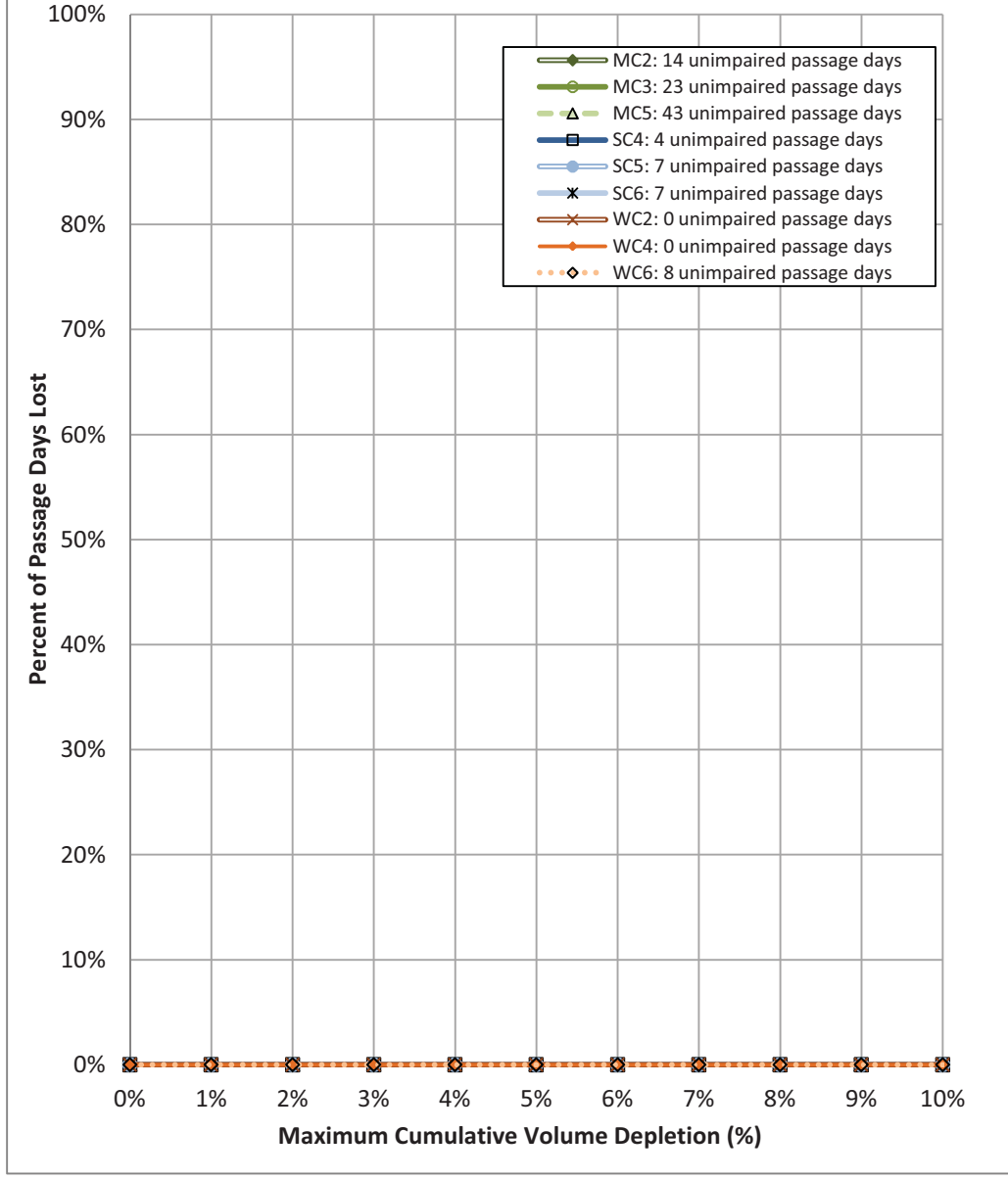
Number of Unimpaired Passage Days Lost

Scenario A2, October



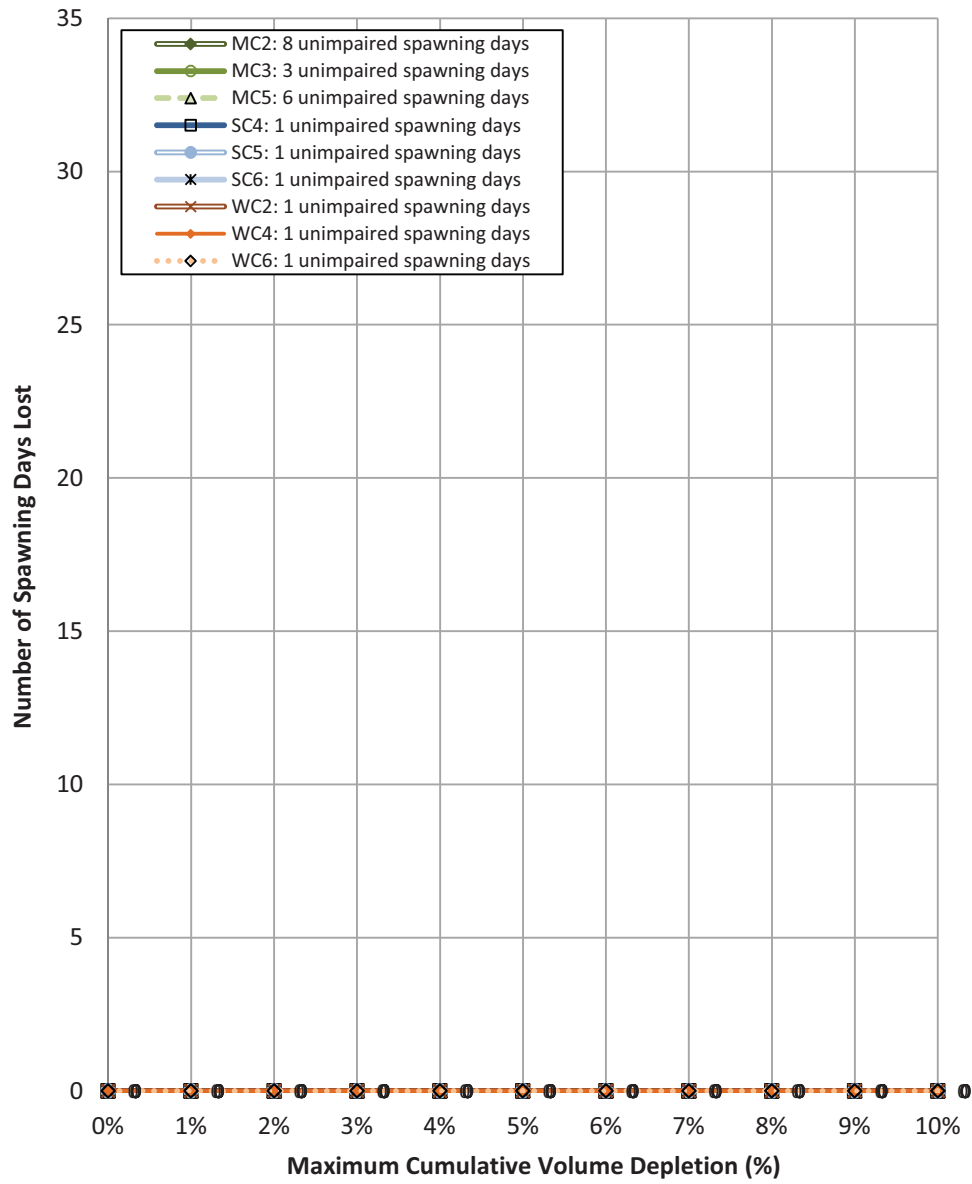
Percent of Unimpaired Passage Days Lost

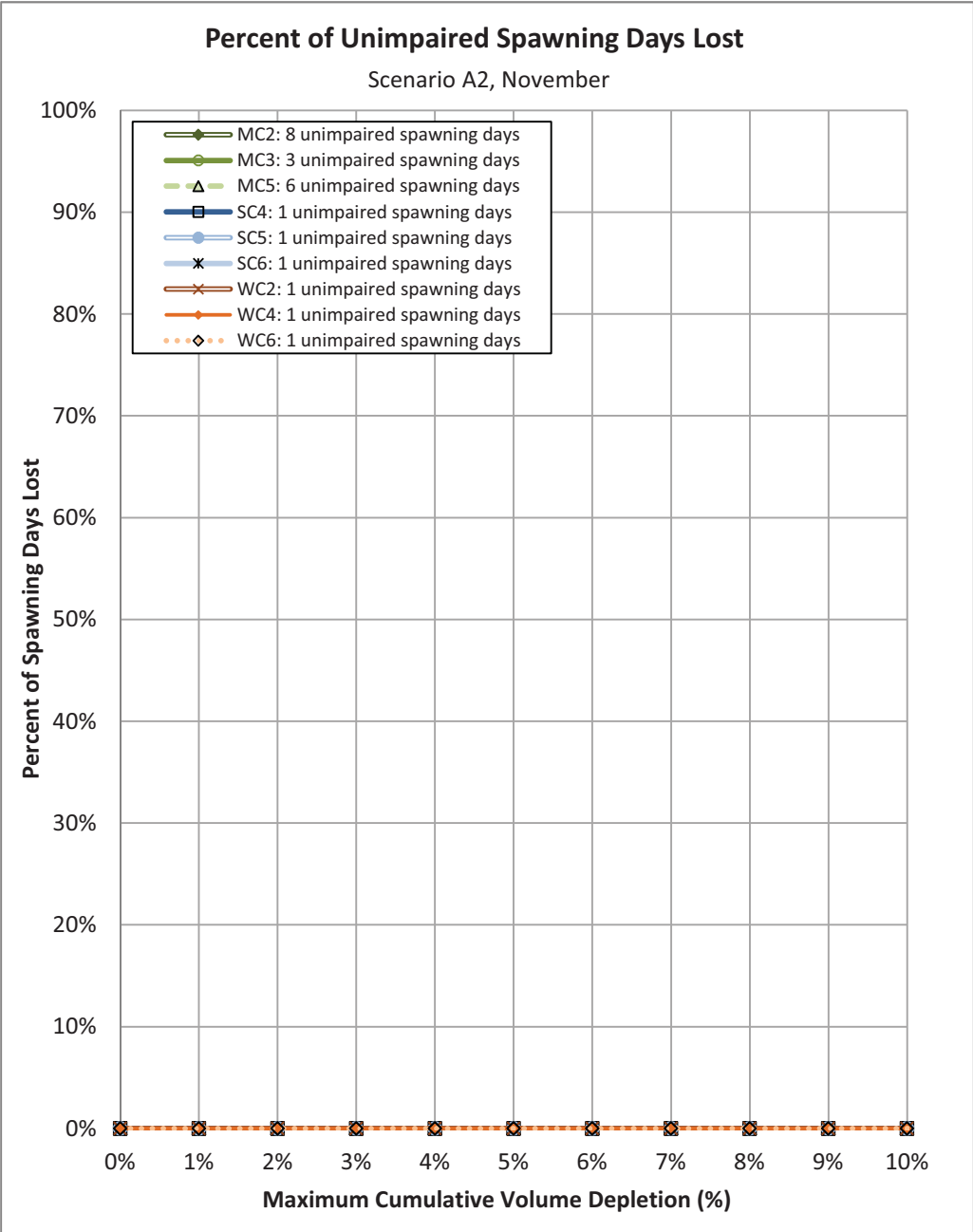
Scenario A2, October



Number of Unimpaired Spawning Days Lost

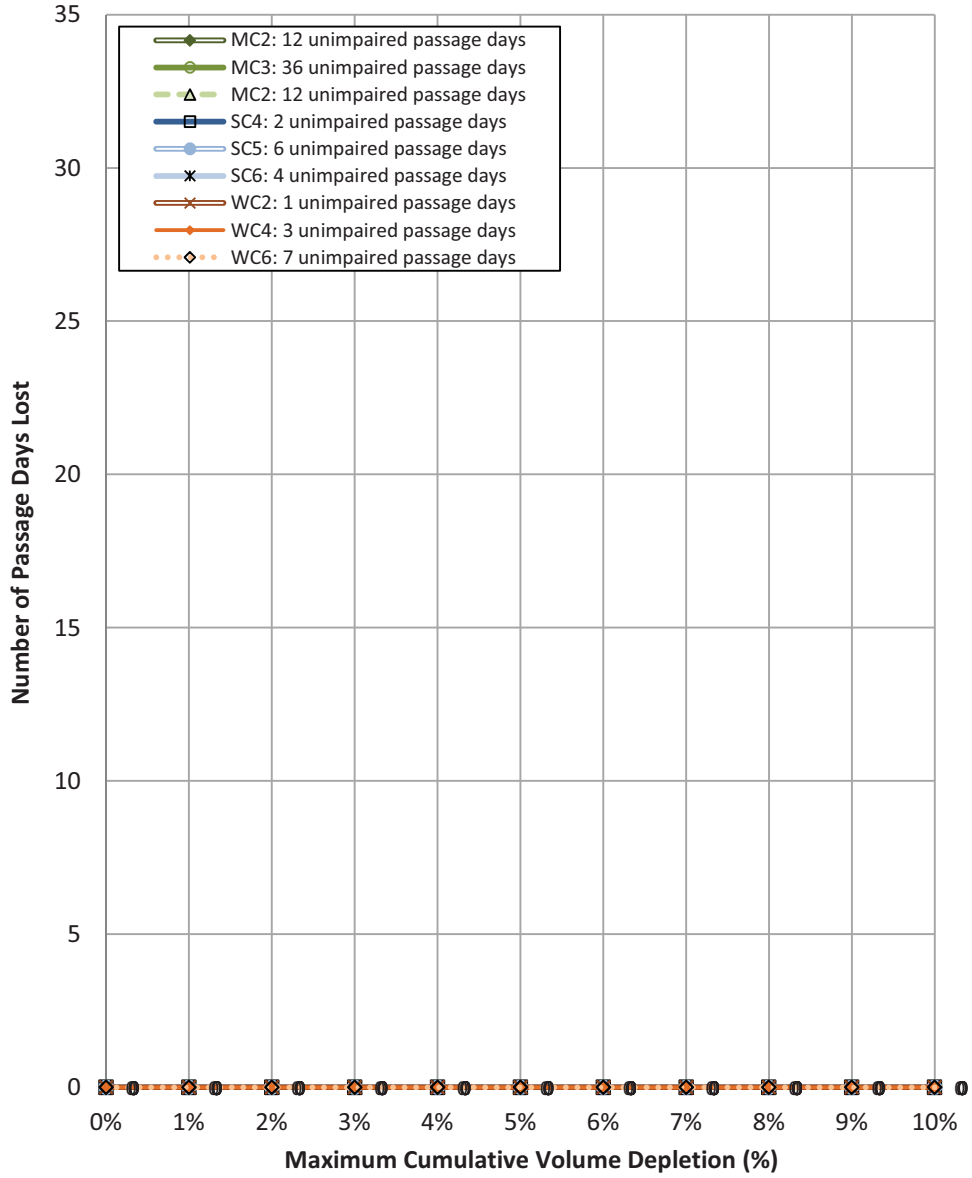
Scenario A2, November

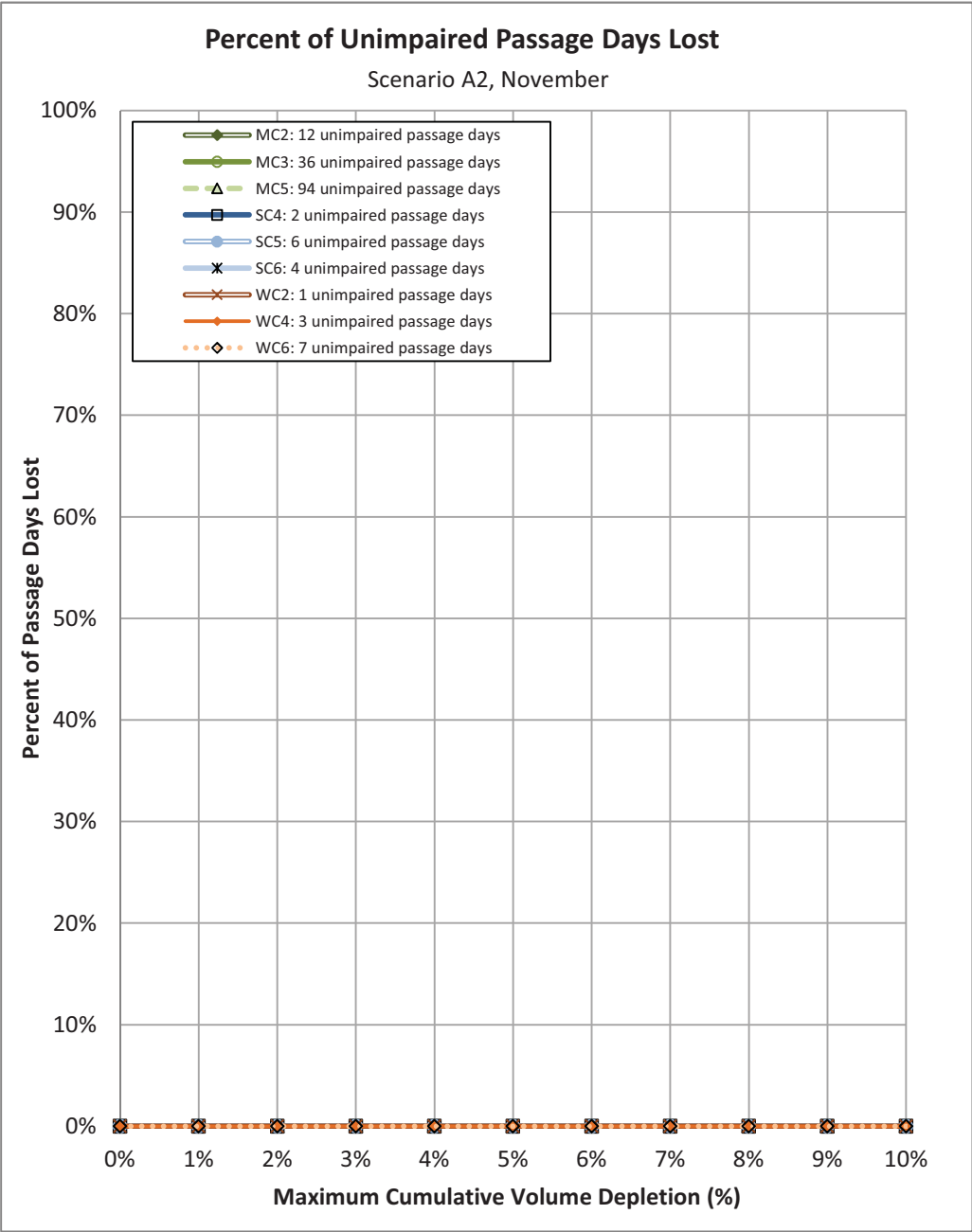




Number of Unimpaired Passage Days Lost

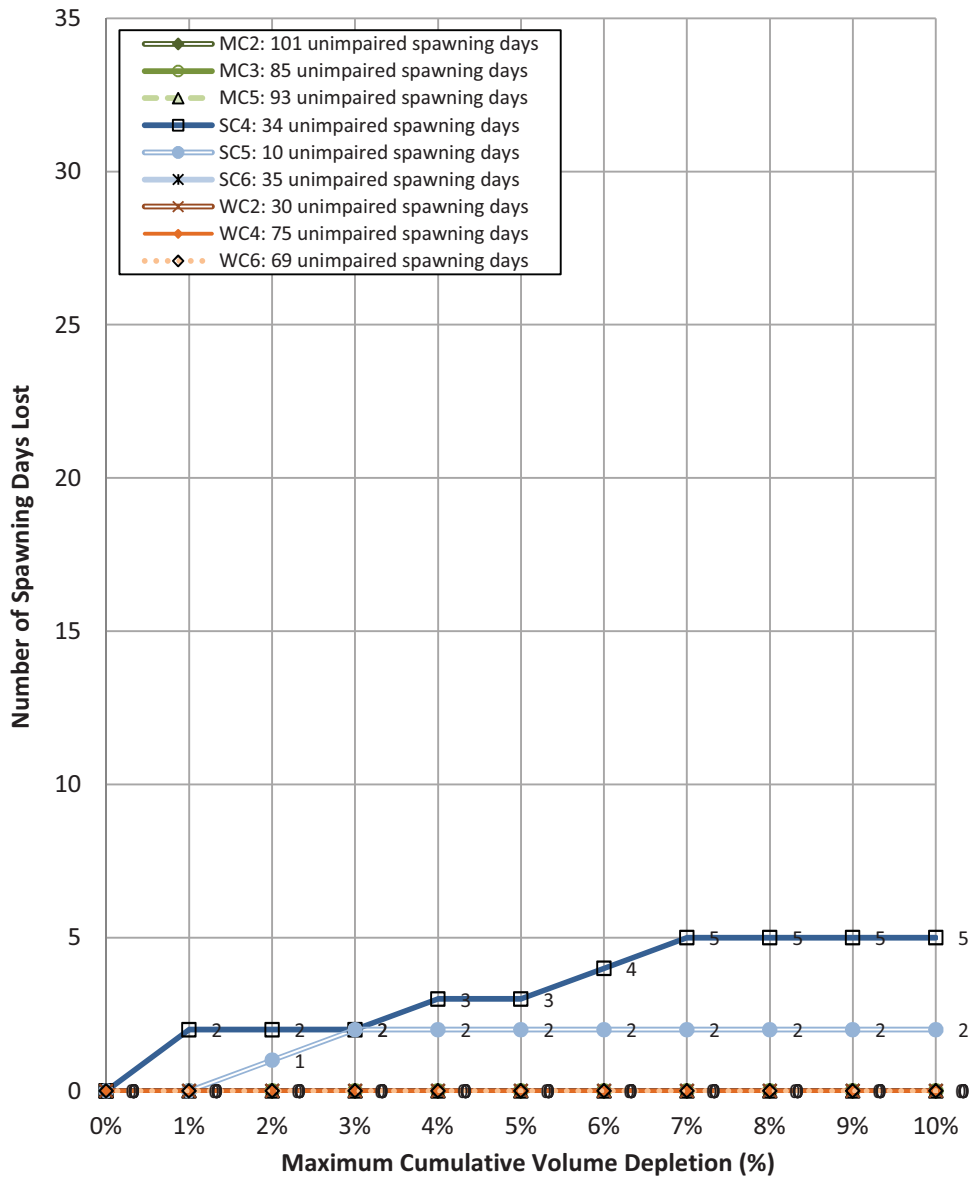
Scenario A2, November





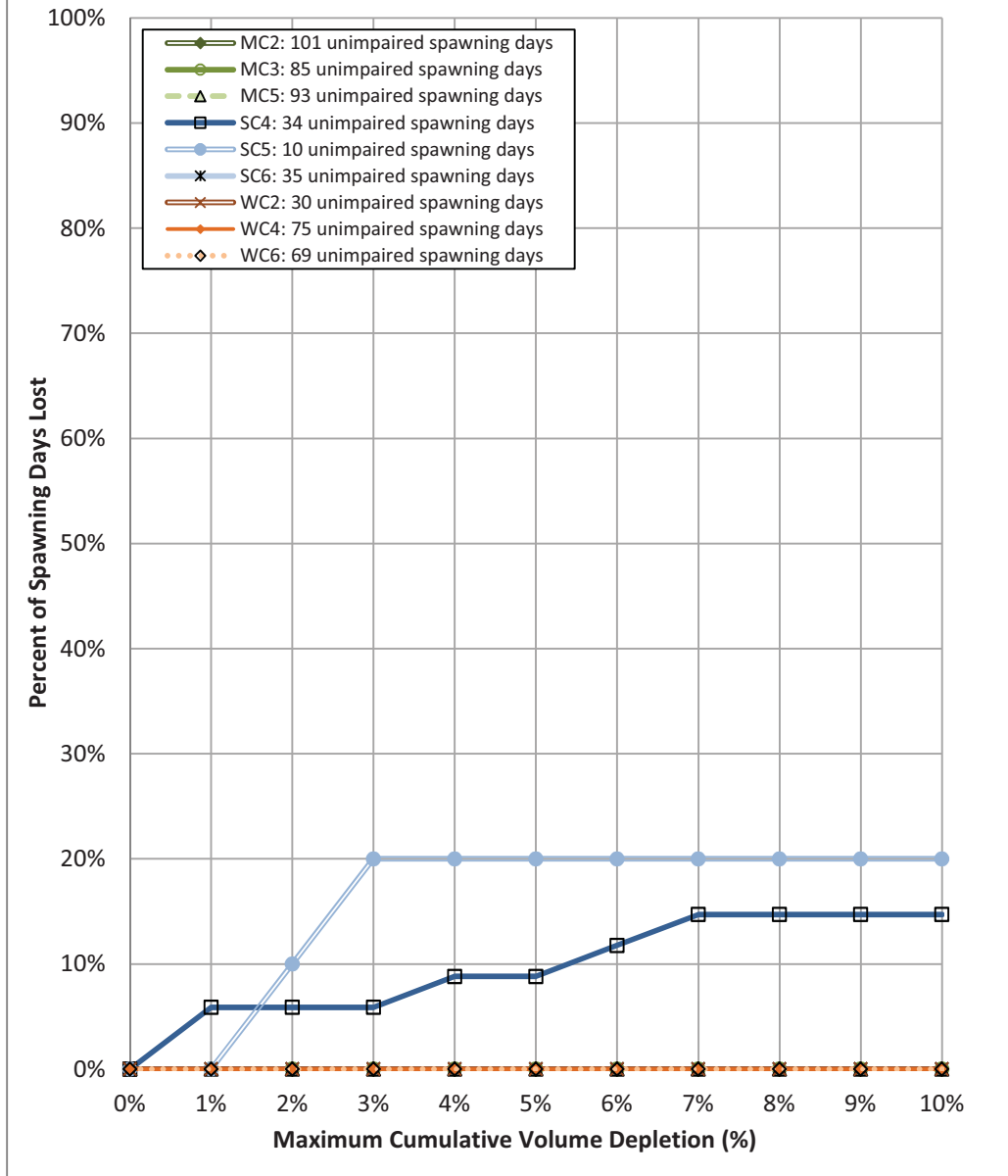
Number of Unimpaired Spawning Days Lost

Scenario A2, December



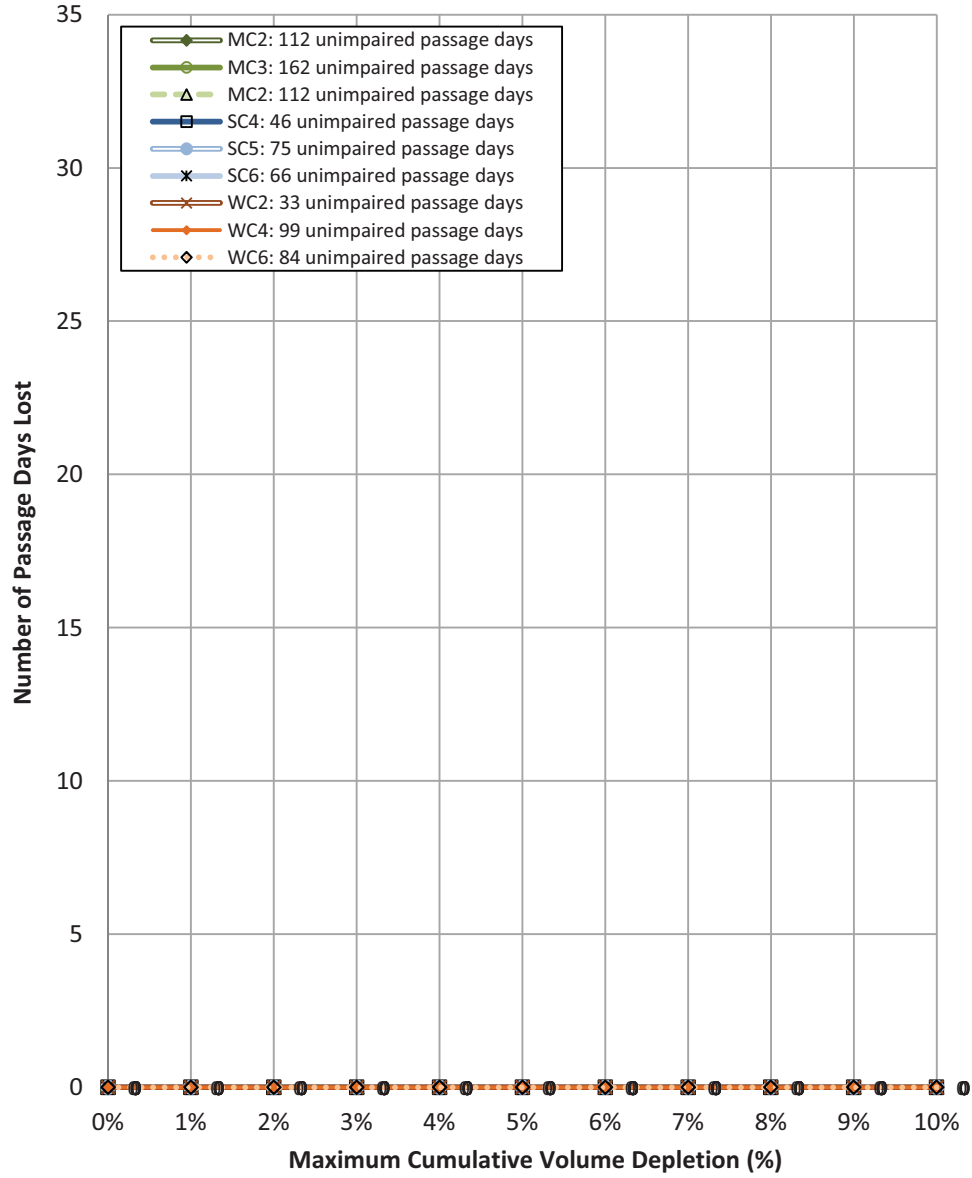
Percent of Unimpaired Spawning Days Lost

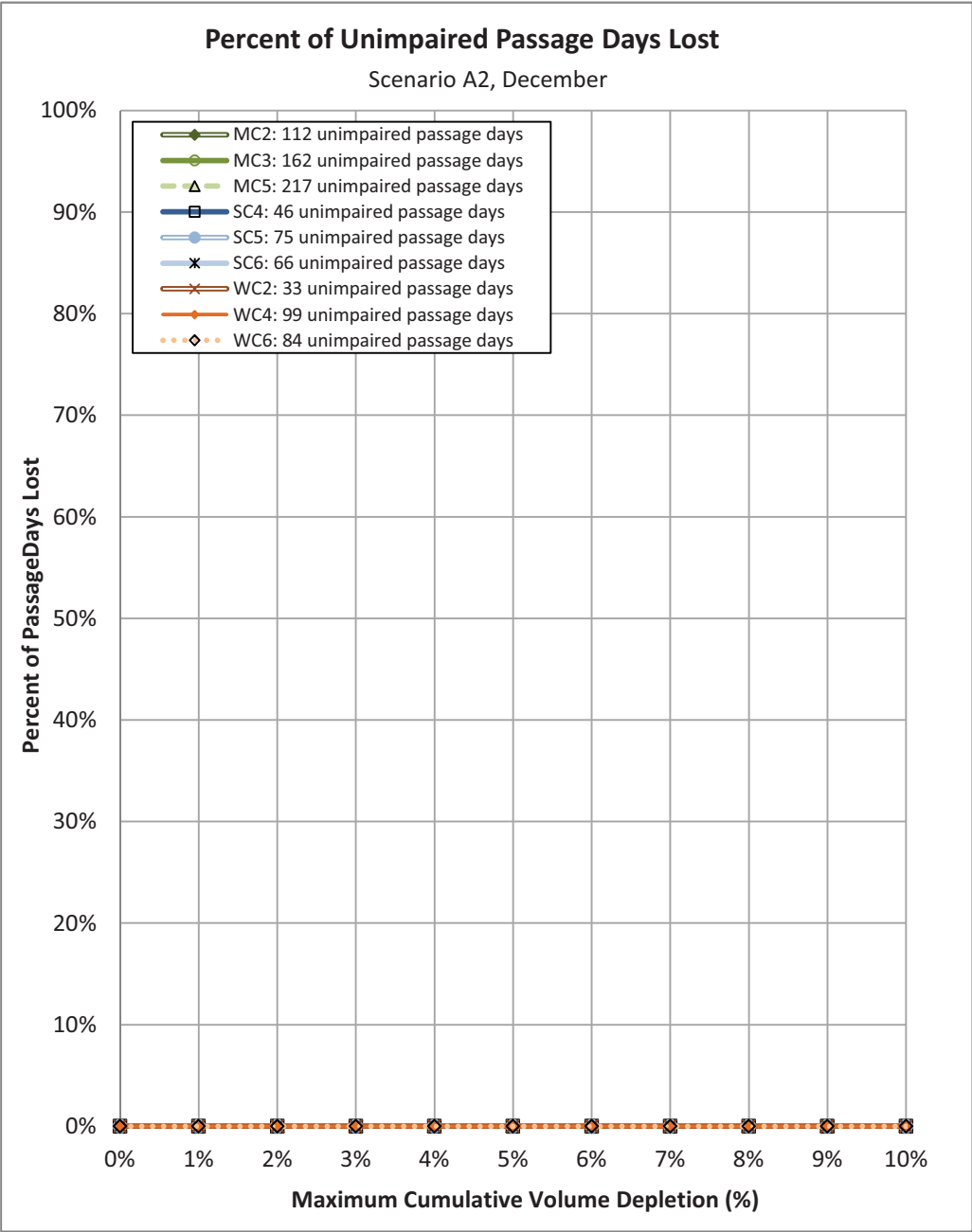
Scenario A2, December



Number of Unimpaired Passage Days Lost

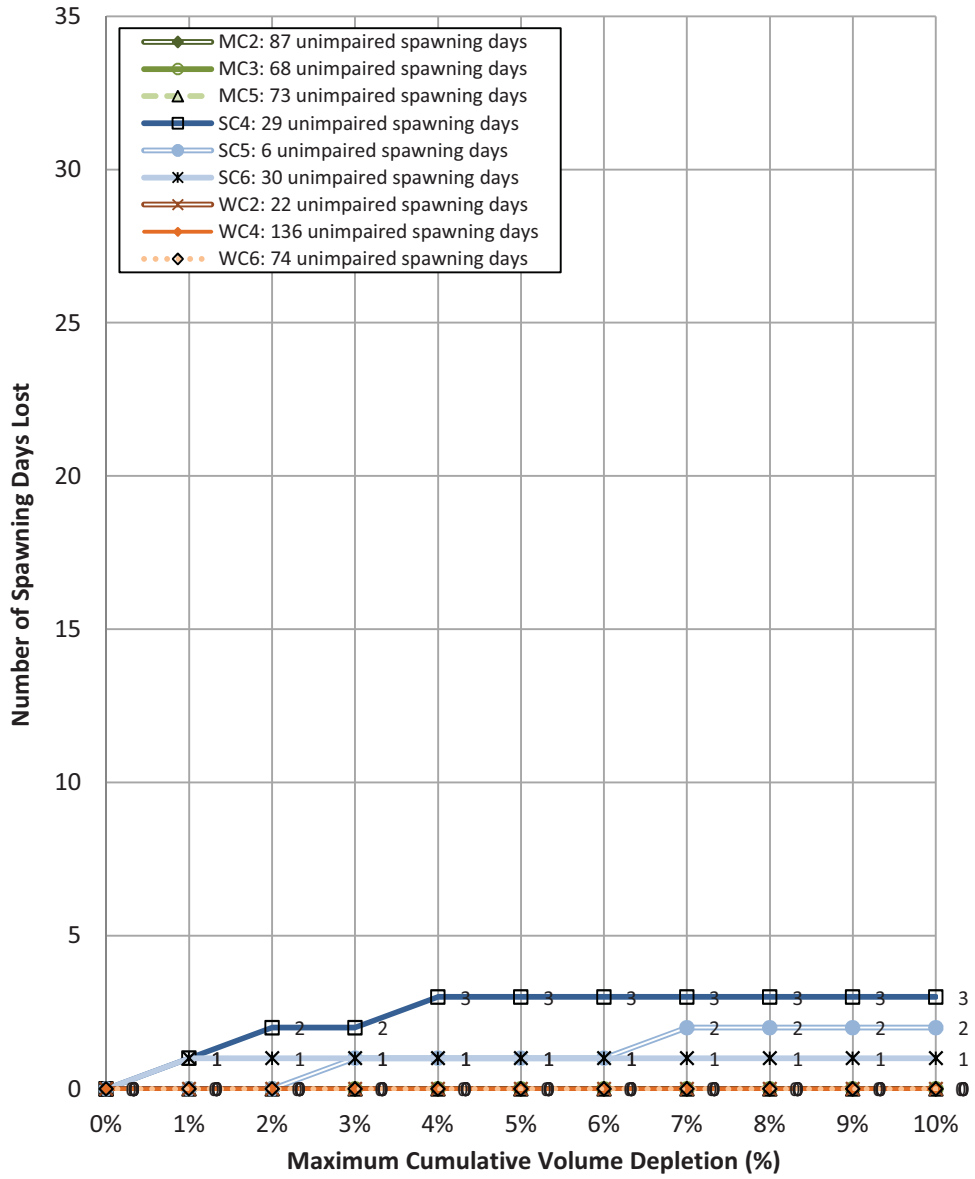
Scenario A2, December





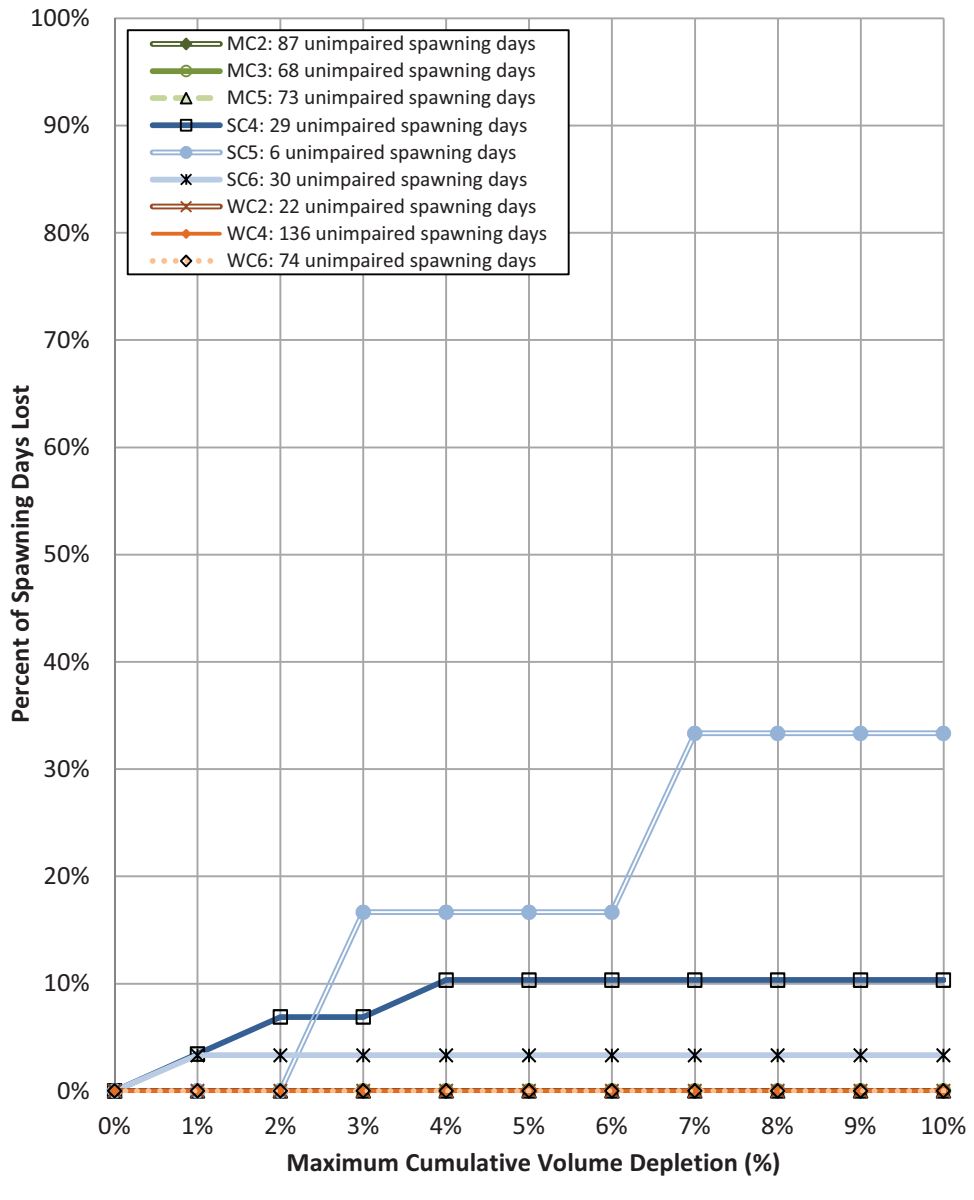
Number of Unimpaired Spawning Days Lost

Scenario A2, January



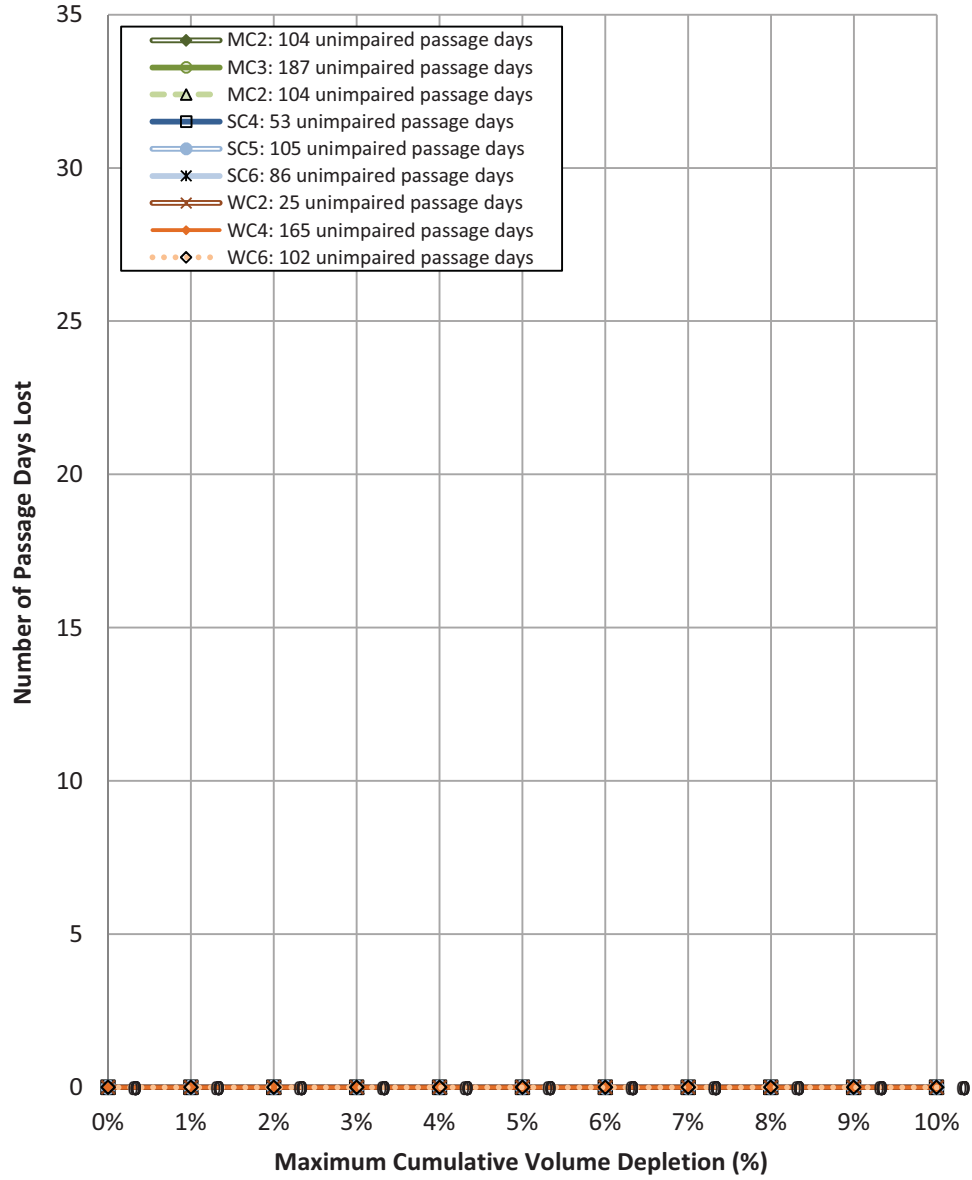
Percent of Unimpaired Spawning Days Lost

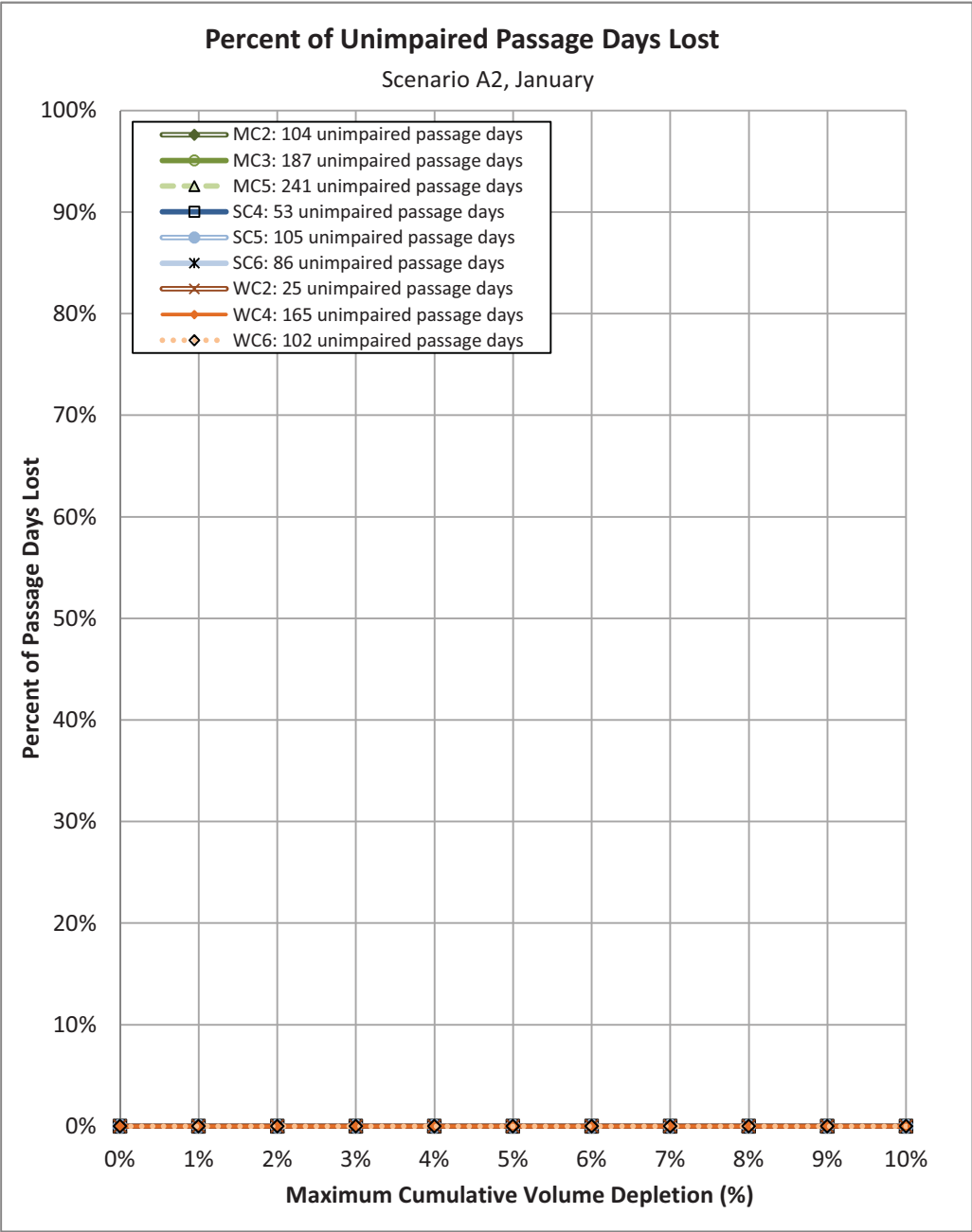
Scenario A2, January



Number of Unimpaired Passage Days Lost

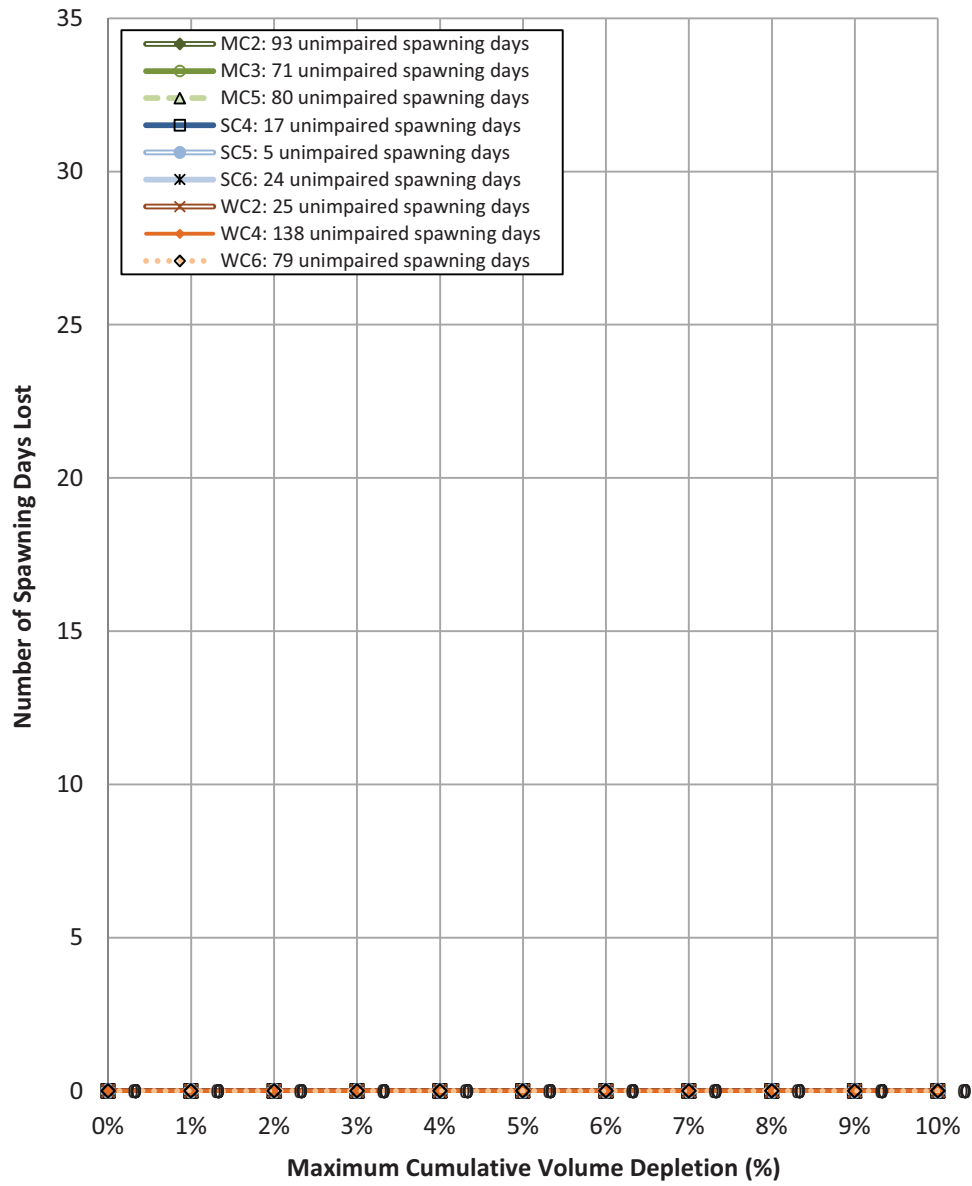
Scenario A2, January

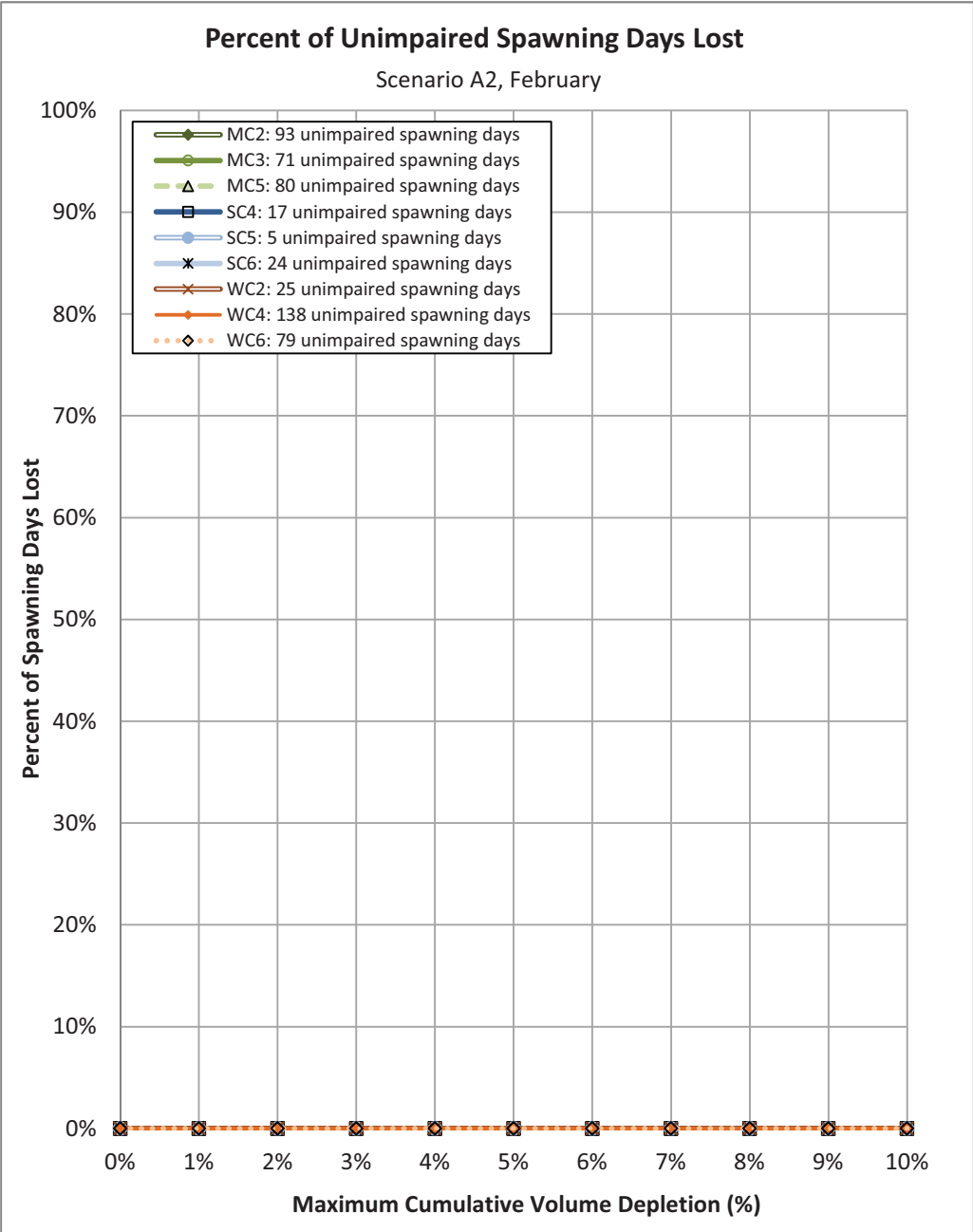




Number of Unimpaired Spawning Days Lost

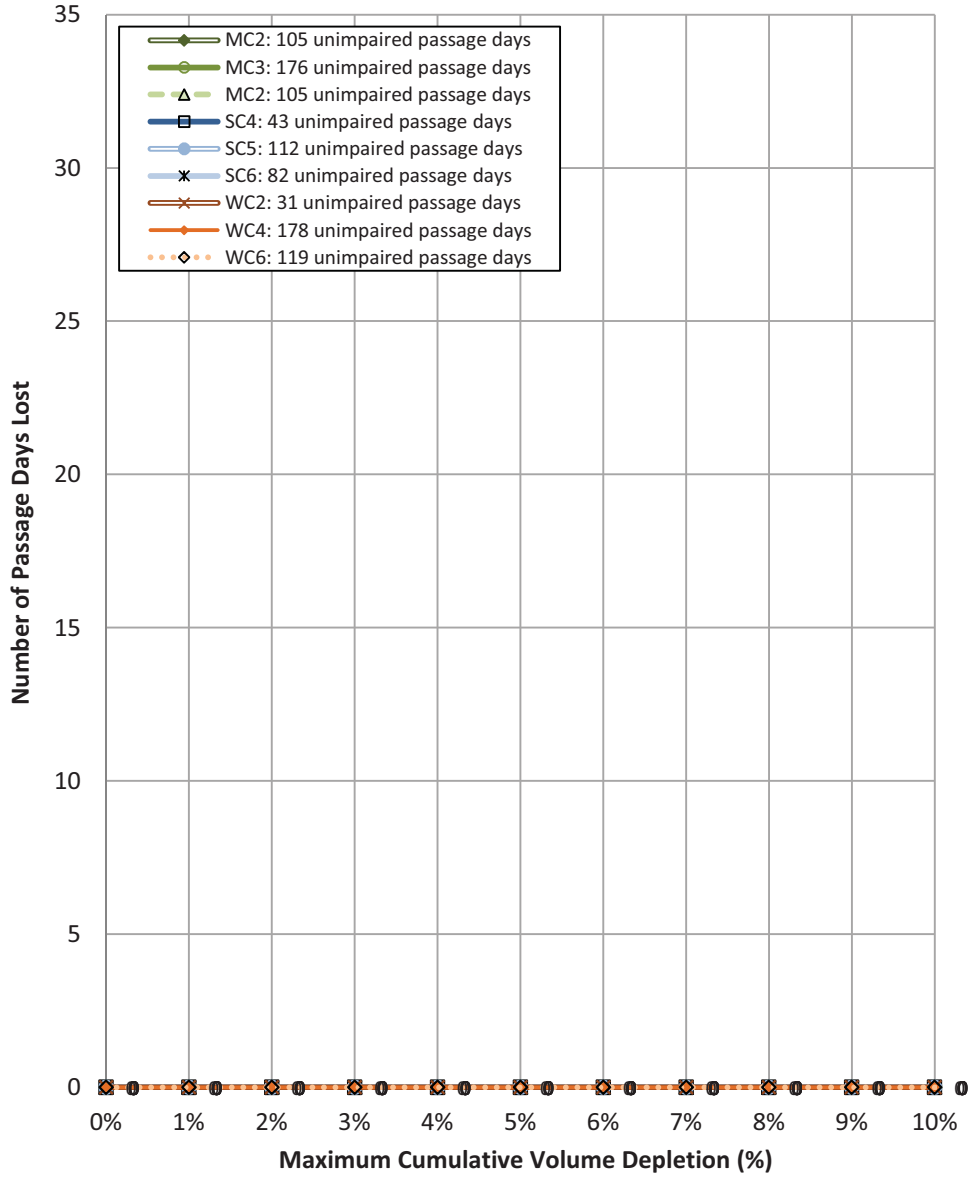
Scenario A2, February

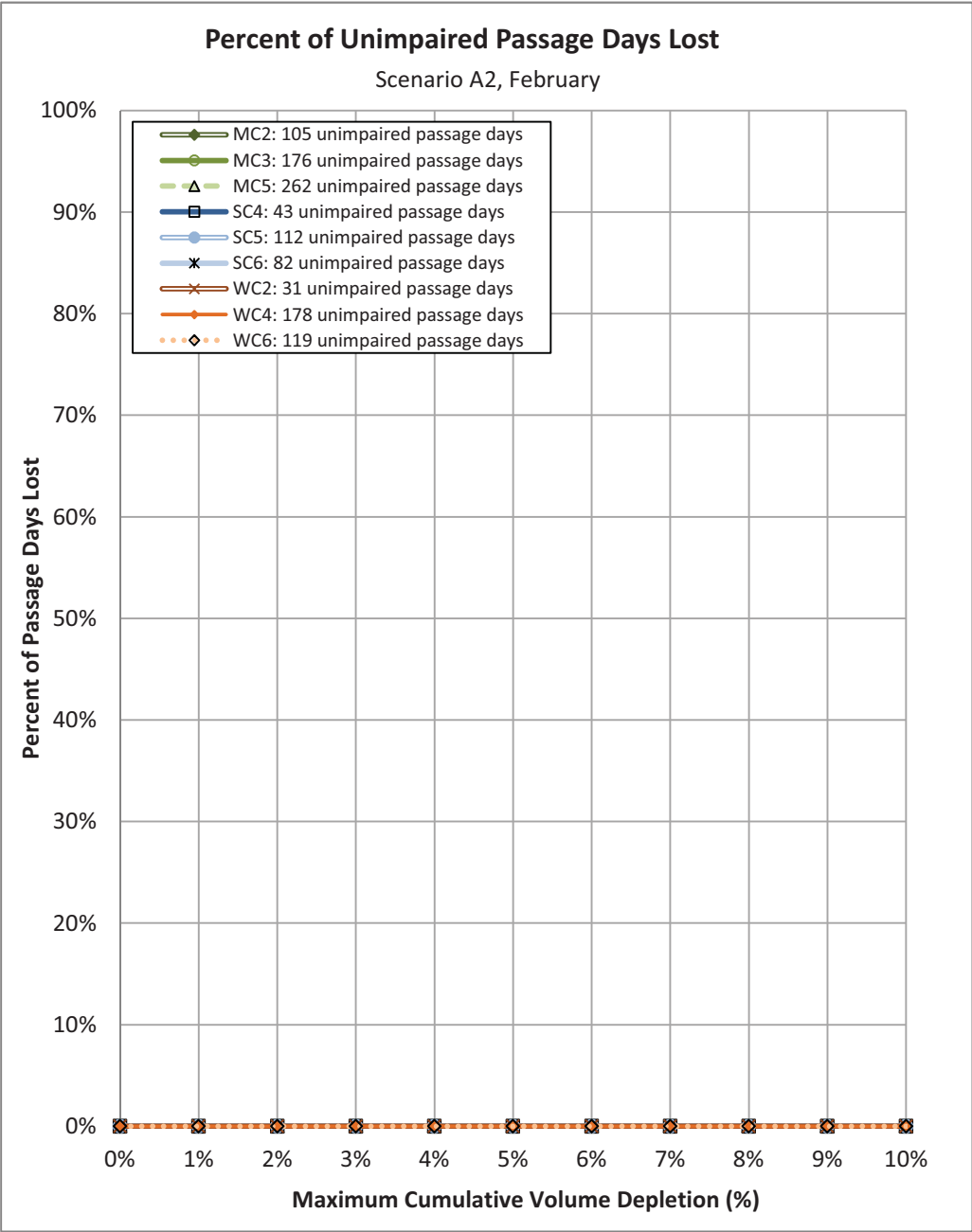




Number of Unimpaired Passage Days Lost

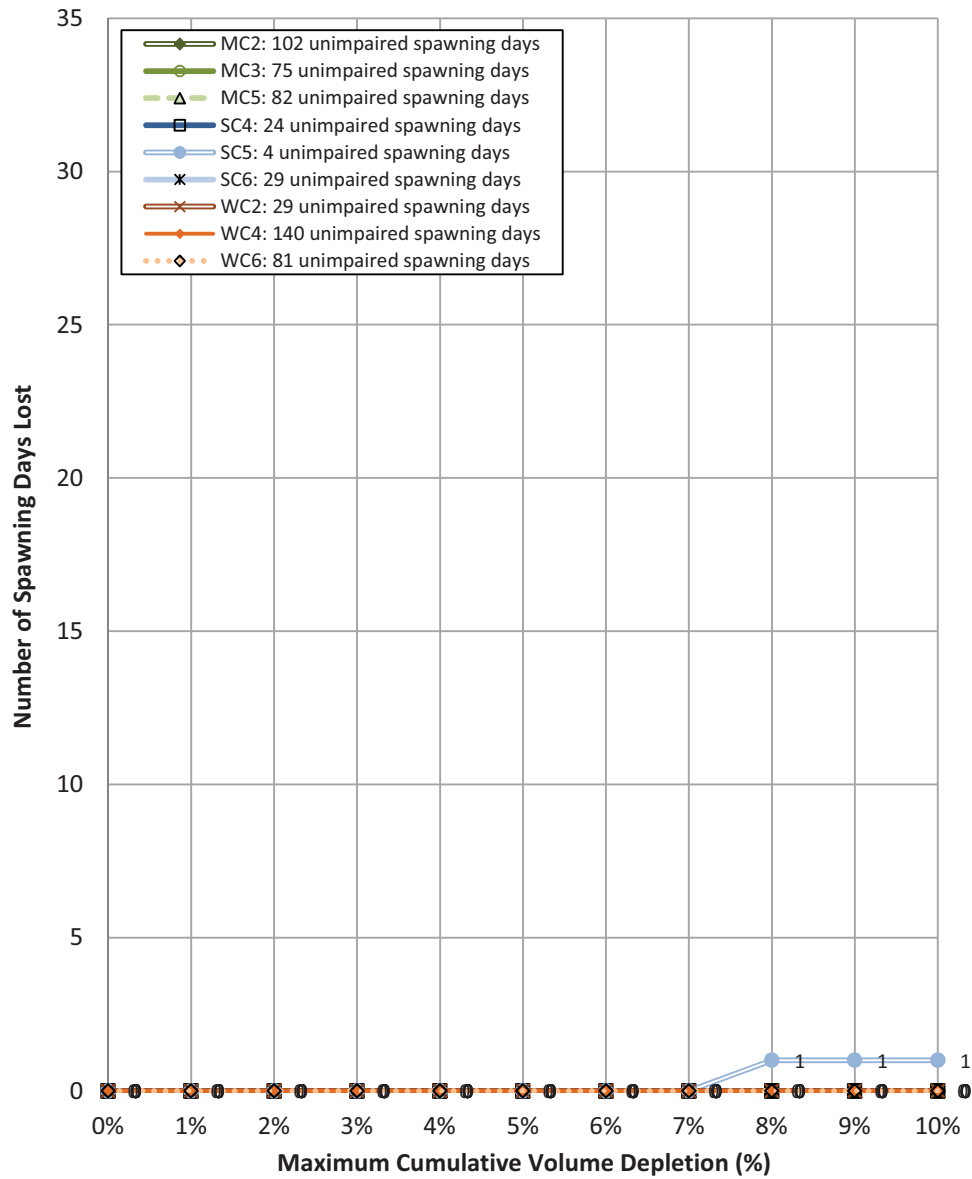
Scenario A2, February

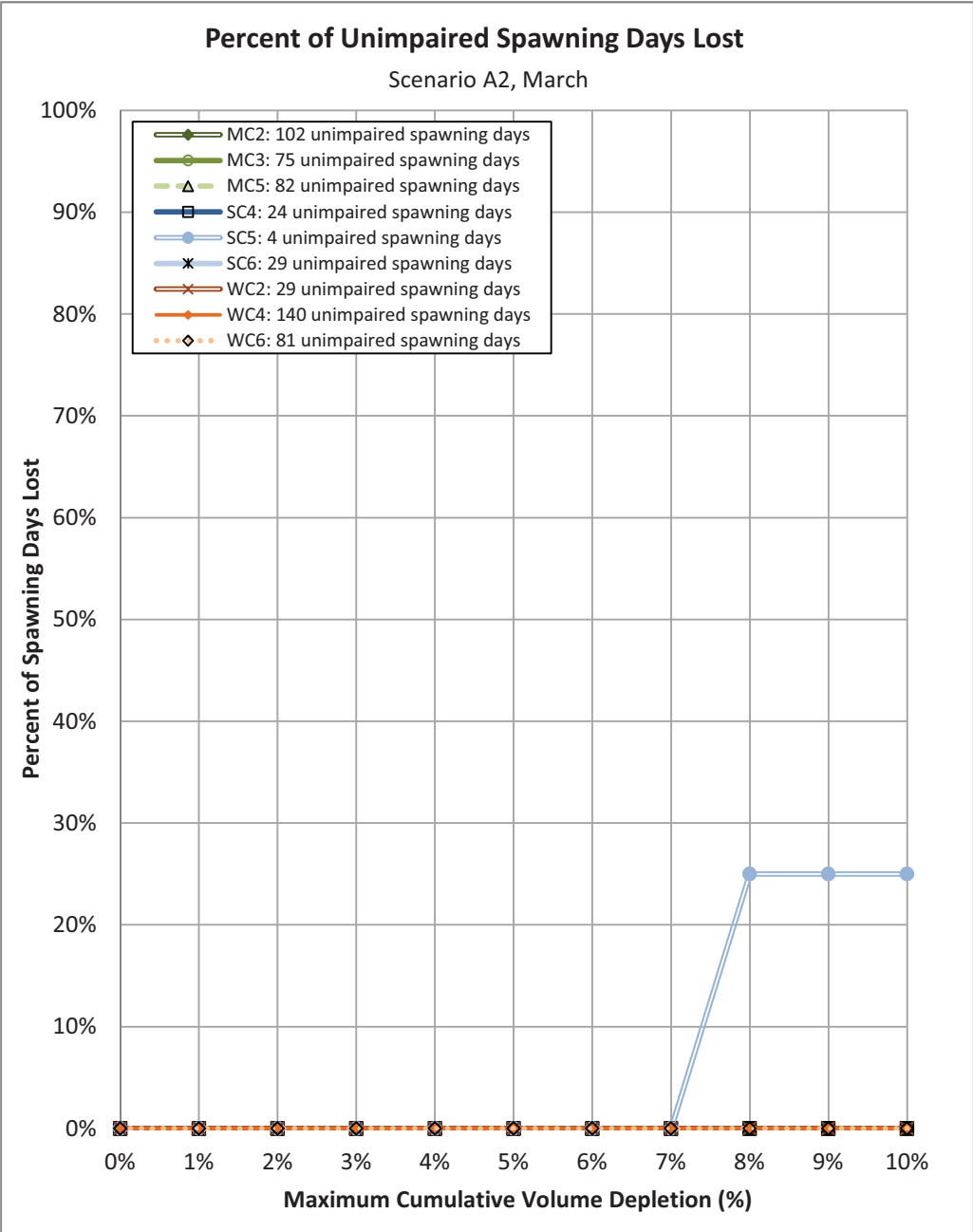




Number of Unimpaired Spawning Days Lost

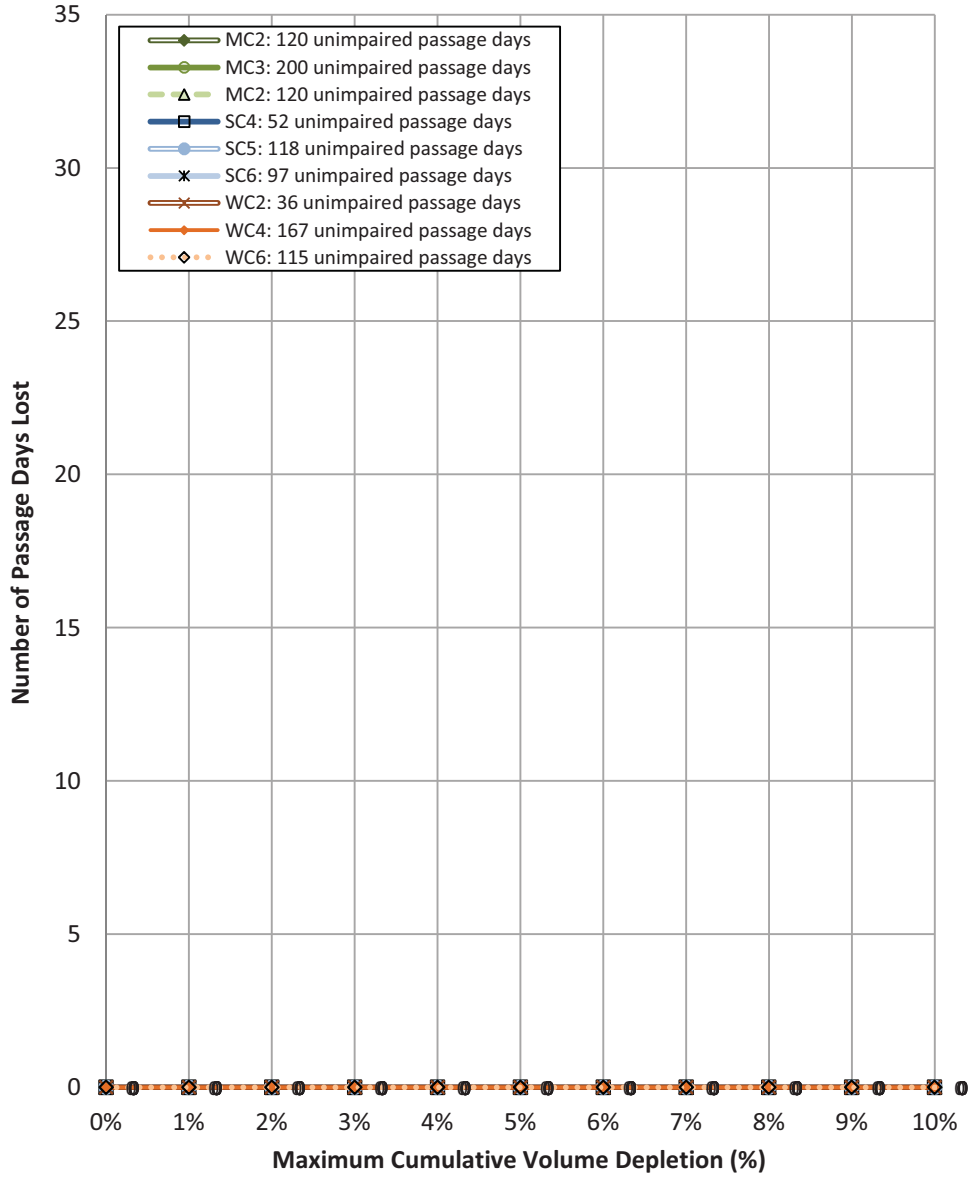
Scenario A2, March

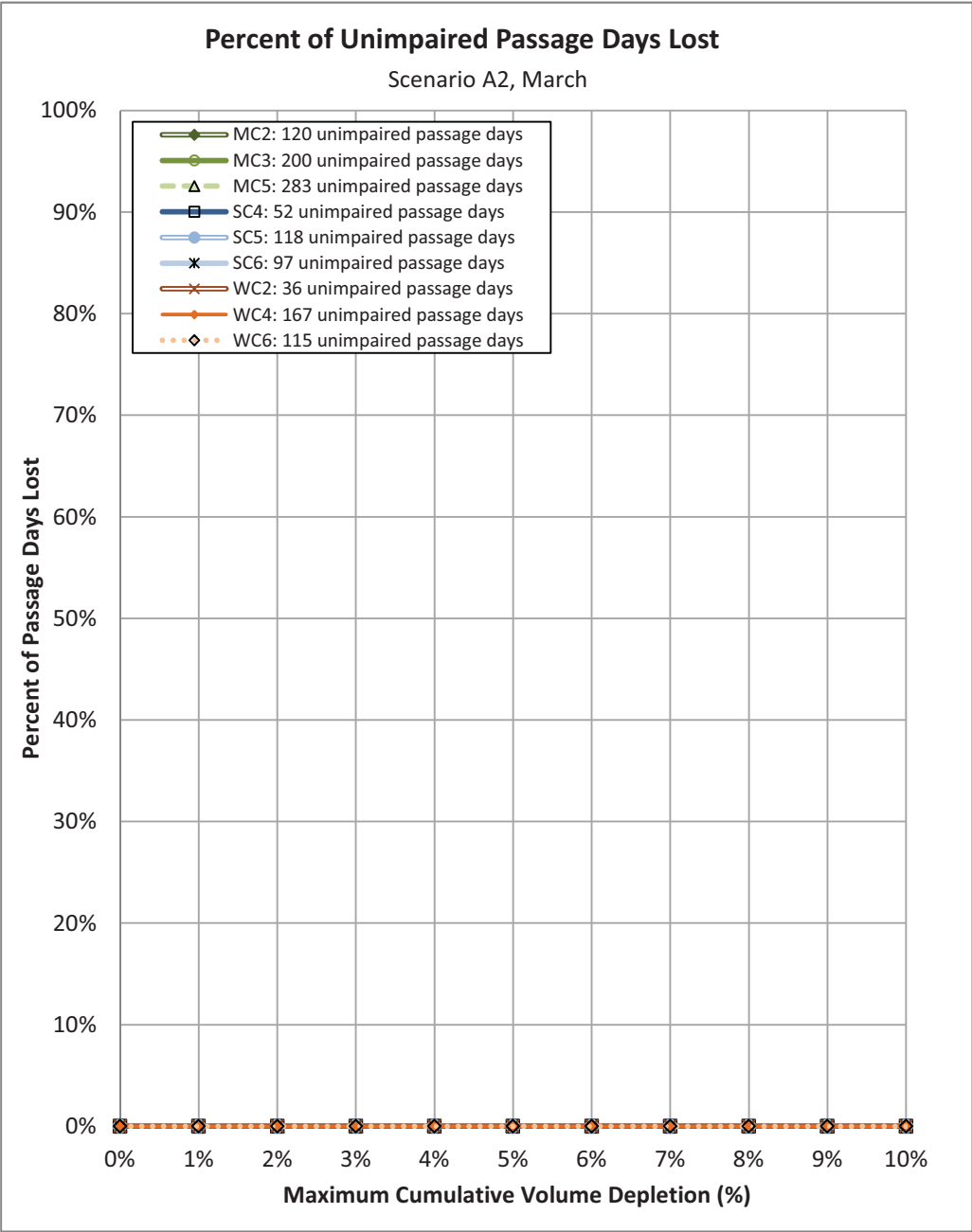




Number of Unimpaired Passage Days Lost

Scenario A2, March





5. Appendix E: Scenario A3 Passage and Spawning Day Tables, Graphs

Table E-49 Unimpaired and Impaired Passage Days in October, Scenario A3

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 14 | 23 | 43 | 4 | 7 | 7 | 0 | 0 | 8 |

| Maximum Cumulative Volume Depletion (%) | Impaired Passage Days | | | | | | | | |
|---|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 7 | 23 | 43 | 3 | 6 | 4 | 0 | 0 | 3 |
| 9% | 7 | 23 | 43 | 3 | 6 | 4 | 0 | 0 | 3 |
| 8% | 7 | 23 | 43 | 3 | 6 | 4 | 0 | 0 | 3 |
| 7% | 7 | 23 | 43 | 3 | 6 | 4 | 0 | 0 | 3 |
| 6% | 7 | 23 | 43 | 3 | 6 | 4 | 0 | 0 | 3 |
| 5% | 7 | 23 | 43 | 3 | 6 | 4 | 0 | 0 | 3 |
| 4% | 7 | 23 | 43 | 3 | 6 | 4 | 0 | 0 | 3 |
| 3% | 8 | 23 | 43 | 3 | 6 | 4 | 0 | 0 | 3 |
| 2% | 10 | 23 | 43 | 3 | 6 | 6 | 0 | 0 | 3 |
| 1% | 12 | 23 | 43 | 4 | 7 | 6 | 0 | 0 | 6 |
| 0% | 14 | 23 | 43 | 4 | 7 | 7 | 0 | 0 | 8 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Passage Days Lost | | | | | | | | |
|---|---|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 50% | - | - | 25% | 14% | 43% | - | - | 63% |
| 9% | 50% | - | - | 25% | 14% | 43% | - | - | 63% |
| 8% | 50% | - | - | 25% | 14% | 43% | - | - | 63% |
| 7% | 50% | - | - | 25% | 14% | 43% | - | - | 63% |
| 6% | 50% | - | - | 25% | 14% | 43% | - | - | 63% |
| 5% | 50% | - | - | 25% | 14% | 43% | - | - | 63% |
| 4% | 50% | - | - | 25% | 14% | 43% | - | - | 63% |
| 3% | 43% | - | - | 25% | 14% | 43% | - | - | 63% |
| 2% | 29% | - | - | 25% | 14% | 14% | - | - | 63% |
| 1% | 14% | - | - | - | - | 14% | - | - | 25% |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of passage days

Table E-50 Unimpaired and Impaired Spawning Days in October, Scenario A3

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 9 | 6 | 6 | 0 | 0 | 1 | 0 | 0 | 1 |

| Maximum Cumulative Volume Depletion (%) | Impaired Spawning Days | | | | | | | | |
|---|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 6 | 3 | 6 | 0 | 0 | 1 | 0 | 0 | 1 |
| 9% | 6 | 3 | 6 | 0 | 0 | 1 | 0 | 0 | 1 |
| 8% | 6 | 3 | 6 | 0 | 0 | 1 | 0 | 0 | 1 |
| 7% | 6 | 3 | 6 | 0 | 0 | 1 | 0 | 0 | 1 |
| 6% | 6 | 3 | 6 | 0 | 0 | 1 | 0 | 0 | 1 |
| 5% | 6 | 3 | 6 | 0 | 0 | 1 | 0 | 0 | 1 |
| 4% | 6 | 3 | 6 | 0 | 0 | 1 | 0 | 0 | 1 |
| 3% | 6 | 3 | 6 | 0 | 0 | 1 | 0 | 0 | 1 |
| 2% | 7 | 3 | 6 | 0 | 0 | 1 | 0 | 0 | 1 |
| 1% | 8 | 4 | 6 | 0 | 0 | 1 | 0 | 0 | 1 |
| 0% | 9 | 6 | 6 | 0 | 0 | 1 | 0 | 0 | 1 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Spawning Days Lost | | | | | | | | |
|---|--|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 33% | 50% | - | - | - | - | - | - | - |
| 9% | 33% | 50% | - | - | - | - | - | - | - |
| 8% | 33% | 50% | - | - | - | - | - | - | - |
| 7% | 33% | 50% | - | - | - | - | - | - | - |
| 6% | 33% | 50% | - | - | - | - | - | - | - |
| 5% | 33% | 50% | - | - | - | - | - | - | - |
| 4% | 33% | 50% | - | - | - | - | - | - | - |
| 3% | 33% | 50% | - | - | - | - | - | - | - |
| 2% | 22% | 50% | - | - | - | - | - | - | - |
| 1% | 11% | 33% | - | - | - | - | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Notes:

'-' indicates no loss of spawning days

Spawning is not usual in October; results provided only for comparison.

Table E-51 Unimpaired and Impaired Passage Days in November, Scenario A3

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 12 | 36 | 94 | 2 | 6 | 4 | 1 | 3 | 7 |

| Maximum Cumulative Volume Depletion (%) | Impaired Passage Days | | | | | | | | |
|---|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 6 | 35 | 94 | 2 | 2 | 2 | 1 | 3 | 2 |
| 9% | 6 | 35 | 94 | 2 | 2 | 2 | 1 | 3 | 2 |
| 8% | 6 | 35 | 94 | 2 | 2 | 2 | 1 | 3 | 2 |
| 7% | 6 | 35 | 94 | 2 | 2 | 2 | 1 | 3 | 2 |
| 6% | 6 | 35 | 94 | 2 | 2 | 2 | 1 | 3 | 2 |
| 5% | 7 | 35 | 94 | 2 | 2 | 2 | 1 | 3 | 2 |
| 4% | 7 | 35 | 94 | 2 | 2 | 2 | 1 | 3 | 2 |
| 3% | 8 | 35 | 94 | 2 | 4 | 3 | 1 | 3 | 3 |
| 2% | 8 | 35 | 94 | 2 | 4 | 4 | 1 | 3 | 4 |
| 1% | 10 | 35 | 94 | 2 | 5 | 4 | 1 | 3 | 5 |
| 0% | 12 | 36 | 94 | 2 | 6 | 4 | 1 | 3 | 7 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Passage Days Lost | | | | | | | | |
|---|---|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 50% | 3% | - | - | 67% | 50% | - | - | 71% |
| 9% | 50% | 3% | - | - | 67% | 50% | - | - | 71% |
| 8% | 50% | 3% | - | - | 67% | 50% | - | - | 71% |
| 7% | 50% | 3% | - | - | 67% | 50% | - | - | 71% |
| 6% | 50% | 3% | - | - | 67% | 50% | - | - | 71% |
| 5% | 42% | 3% | - | - | 67% | 50% | - | - | 71% |
| 4% | 42% | 3% | - | - | 67% | 50% | - | - | 71% |
| 3% | 33% | 3% | - | - | 33% | 25% | - | - | 57% |
| 2% | 33% | 3% | - | - | 33% | - | - | - | 43% |
| 1% | 17% | 3% | - | - | 17% | - | - | - | 29% |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of passage days

Table E-52 Unimpaired and Impaired Spawning Days in November, Scenario A3

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 8 | 3 | 6 | 1 | 1 | 1 | 1 | 1 | 1 |

| Maximum Cumulative Volume Depletion (%) | Impaired Spawning Days | | | | | | | | |
|---|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 5 | 2 | 4 | 1 | 1 | 1 | 1 | 1 | 1 |
| 9% | 5 | 2 | 4 | 1 | 1 | 1 | 1 | 1 | 1 |
| 8% | 5 | 2 | 4 | 1 | 1 | 1 | 1 | 1 | 1 |
| 7% | 5 | 2 | 4 | 1 | 1 | 1 | 1 | 1 | 1 |
| 6% | 5 | 2 | 4 | 1 | 1 | 1 | 1 | 1 | 1 |
| 5% | 5 | 2 | 4 | 1 | 1 | 1 | 1 | 1 | 1 |
| 4% | 5 | 2 | 4 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3% | 6 | 2 | 4 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2% | 7 | 2 | 4 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1% | 7 | 3 | 4 | 1 | 1 | 1 | 1 | 1 | 1 |
| 0% | 8 | 3 | 6 | 1 | 1 | 1 | 1 | 1 | 1 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Spawning Days Lost | | | | | | | | |
|---|--|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 38% | 33% | 33% | - | - | - | - | - | - |
| 9% | 38% | 33% | 33% | - | - | - | - | - | - |
| 8% | 38% | 33% | 33% | - | - | - | - | - | - |
| 7% | 38% | 33% | 33% | - | - | - | - | - | - |
| 6% | 38% | 33% | 33% | - | - | - | - | - | - |
| 5% | 38% | 33% | 33% | - | - | - | - | - | - |
| 4% | 38% | 33% | 33% | - | - | - | - | - | - |
| 3% | 25% | 33% | 33% | - | - | - | - | - | - |
| 2% | 13% | 33% | 33% | - | - | - | - | - | - |
| 1% | 13% | - | 33% | - | - | - | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of spawning days

Table E-53 Unimpaired and Impaired Passage Days in December, Scenario A3

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | 112 | 162 | 217 | 46 | 75 | 66 | 33 | 99 |

| Maximum Cumulative Volume Depletion (%) | Impaired Passage Days | | | | | | | | |
|---|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 98 | 162 | 217 | 41 | 65 | 60 | 30 | 99 | 75 |
| 9% | 99 | 162 | 217 | 41 | 65 | 61 | 30 | 99 | 75 |
| 8% | 100 | 162 | 217 | 41 | 65 | 61 | 30 | 99 | 75 |
| 7% | 102 | 162 | 217 | 42 | 67 | 61 | 30 | 99 | 78 |
| 6% | 102 | 162 | 217 | 42 | 68 | 62 | 30 | 99 | 78 |
| 5% | 103 | 162 | 217 | 43 | 70 | 63 | 30 | 99 | 80 |
| 4% | 103 | 162 | 217 | 43 | 70 | 63 | 31 | 99 | 80 |
| 3% | 105 | 162 | 217 | 45 | 71 | 65 | 31 | 99 | 80 |
| 2% | 106 | 162 | 217 | 45 | 72 | 65 | 32 | 99 | 81 |
| 1% | 109 | 162 | 217 | 45 | 74 | 66 | 33 | 99 | 83 |
| 0% | 112 | 162 | 217 | 46 | 75 | 66 | 33 | 99 | 84 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Passage Days Lost | | | | | | | | |
|---|---|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 13% | - | - | 11% | 13% | 9% | 9% | - | 11% |
| 9% | 12% | - | - | 11% | 13% | 8% | 9% | - | 11% |
| 8% | 11% | - | - | 11% | 13% | 8% | 9% | - | 11% |
| 7% | 9% | - | - | 9% | 11% | 8% | 9% | - | 7% |
| 6% | 9% | - | - | 9% | 9% | 6% | 9% | - | 7% |
| 5% | 8% | - | - | 7% | 7% | 5% | 9% | - | 5% |
| 4% | 8% | - | - | 7% | 7% | 5% | 6% | - | 5% |
| 3% | 6% | - | - | 2% | 5% | 2% | 6% | - | 5% |
| 2% | 5% | - | - | 2% | 4% | 2% | 3% | - | 4% |
| 1% | 3% | - | - | 2% | 1% | - | - | - | 1% |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of passage days

Table E-54 Unimpaired and Impaired Spawning Days in December, Scenario A3

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 101 | 85 | 93 | 34 | 10 | 35 | 30 | 75 | 69 |

| Maximum Cumulative Volume Depletion (%) | Impaired Spawning Days | | | | | | | | |
|---|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 89 | 77 | 89 | 32 | 10 | 35 | 30 | 75 | 60 |
| 9% | 89 | 79 | 89 | 32 | 10 | 35 | 30 | 75 | 61 |
| 8% | 91 | 79 | 91 | 32 | 10 | 35 | 30 | 75 | 61 |
| 7% | 94 | 79 | 91 | 33 | 10 | 35 | 30 | 75 | 61 |
| 6% | 94 | 79 | 92 | 33 | 10 | 35 | 30 | 75 | 64 |
| 5% | 94 | 80 | 92 | 33 | 10 | 35 | 30 | 75 | 66 |
| 4% | 95 | 81 | 92 | 34 | 10 | 35 | 30 | 75 | 67 |
| 3% | 96 | 83 | 92 | 34 | 10 | 35 | 30 | 75 | 69 |
| 2% | 98 | 84 | 93 | 34 | 10 | 35 | 30 | 75 | 69 |
| 1% | 100 | 84 | 93 | 34 | 10 | 35 | 30 | 75 | 69 |
| 0% | 101 | 85 | 93 | 34 | 10 | 35 | 30 | 75 | 69 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Spawning Days Lost | | | | | | | | |
|---|--|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 12% | 9% | 4% | 6% | - | - | - | - | 13% |
| 9% | 12% | 7% | 4% | 6% | - | - | - | - | 12% |
| 8% | 10% | 7% | 2% | 6% | - | - | - | - | 12% |
| 7% | 7% | 7% | 2% | 3% | - | - | - | - | 12% |
| 6% | 7% | 7% | 1% | 3% | - | - | - | - | 7% |
| 5% | 7% | 6% | 1% | 3% | - | - | - | - | 4% |
| 4% | 6% | 5% | 1% | - | - | - | - | - | 3% |
| 3% | 5% | 2% | 1% | - | - | - | - | - | - |
| 2% | 3% | 1% | - | - | - | - | - | - | - |
| 1% | 1% | 1% | - | - | - | - | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of spawning days

Table E-55 Unimpaired and Impaired Passage Days in January, Scenario A3

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 104 | 187 | 241 | 53 | 105 | 86 | 25 | 165 | 102 |

| Maximum Cumulative Volume Depletion (%) | Impaired Passage Days | | | | | | | | |
|---|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 99 | 187 | 241 | 49 | 103 | 84 | 23 | 165 | 96 |
| 9% | 100 | 187 | 241 | 49 | 103 | 84 | 23 | 165 | 96 |
| 8% | 100 | 187 | 241 | 50 | 103 | 84 | 24 | 165 | 98 |
| 7% | 100 | 187 | 241 | 50 | 103 | 84 | 25 | 165 | 100 |
| 6% | 102 | 187 | 241 | 50 | 103 | 84 | 25 | 165 | 102 |
| 5% | 103 | 187 | 241 | 50 | 104 | 85 | 25 | 165 | 102 |
| 4% | 104 | 187 | 241 | 51 | 105 | 85 | 25 | 165 | 102 |
| 3% | 104 | 187 | 241 | 51 | 105 | 86 | 25 | 165 | 102 |
| 2% | 104 | 187 | 241 | 52 | 105 | 86 | 25 | 165 | 102 |
| 1% | 104 | 187 | 241 | 52 | 105 | 86 | 25 | 165 | 102 |
| 0% | 104 | 187 | 241 | 53 | 105 | 86 | 25 | 165 | 102 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Passage Days Lost | | | | | | | | |
|---|---|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 5% | - | - | 8% | 2% | 2% | 8% | - | 6% |
| 9% | 4% | - | - | 8% | 2% | 2% | 8% | - | 6% |
| 8% | 4% | - | - | 6% | 2% | 2% | 4% | - | 4% |
| 7% | 4% | - | - | 6% | 2% | 2% | - | - | 2% |
| 6% | 2% | - | - | 6% | 2% | 2% | - | - | - |
| 5% | 1% | - | - | 6% | 1% | 1% | - | - | - |
| 4% | - | - | - | 4% | - | 1% | - | - | - |
| 3% | - | - | - | 4% | - | - | - | - | - |
| 2% | - | - | - | 2% | - | - | - | - | - |
| 1% | - | - | - | 2% | - | - | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of passage days

Table E-56 Unimpaired and Impaired Spawning Days in January, Scenario A3

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 87 | 68 | 73 | 29 | 6 | 30 | 22 | 136 | 74 |

| Maximum Cumulative Volume Depletion (%) | Impaired Spawning Days | | | | | | | | |
|---|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 81 | 66 | 72 | 27 | 6 | 29 | 20 | 136 | 72 |
| 9% | 82 | 66 | 72 | 27 | 6 | 29 | 20 | 136 | 72 |
| 8% | 82 | 67 | 72 | 27 | 6 | 29 | 20 | 136 | 72 |
| 7% | 82 | 67 | 73 | 27 | 6 | 29 | 20 | 136 | 72 |
| 6% | 84 | 67 | 73 | 27 | 6 | 29 | 22 | 136 | 73 |
| 5% | 86 | 68 | 73 | 27 | 6 | 29 | 22 | 136 | 74 |
| 4% | 87 | 68 | 73 | 27 | 6 | 29 | 22 | 136 | 74 |
| 3% | 87 | 68 | 73 | 28 | 6 | 29 | 22 | 136 | 74 |
| 2% | 87 | 68 | 73 | 28 | 6 | 29 | 22 | 136 | 74 |
| 1% | 87 | 68 | 73 | 29 | 6 | 29 | 22 | 136 | 74 |
| 0% | 87 | 68 | 73 | 29 | 6 | 30 | 22 | 136 | 74 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Spawning Days Lost | | | | | | | | |
|---|--|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 7% | 3% | 1% | 7% | - | 3% | 9% | - | 3% |
| 9% | 6% | 3% | 1% | 7% | - | 3% | 9% | - | 3% |
| 8% | 6% | 1% | 1% | 7% | - | 3% | 9% | - | 3% |
| 7% | 6% | 1% | - | 7% | - | 3% | 9% | - | 3% |
| 6% | 3% | 1% | - | 7% | - | 3% | - | - | 1% |
| 5% | 1% | - | - | 7% | - | 3% | - | - | - |
| 4% | - | - | - | 7% | - | 3% | - | - | - |
| 3% | - | - | - | 3% | - | 3% | - | - | - |
| 2% | - | - | - | 3% | - | 3% | - | - | - |
| 1% | - | - | - | - | - | 3% | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of spawning days

Table E-57 Unimpaired and Impaired Passage Days in February, Scenario A3

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 105 | 176 | 262 | 43 | 112 | 82 | 31 | 178 | 119 |

| Maximum Cumulative Volume Depletion (%) | Impaired Passage Days | | | | | | | | |
|---|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 103 | 175 | 262 | 42 | 106 | 80 | 30 | 178 | 118 |
| 9% | 103 | 175 | 262 | 42 | 108 | 81 | 30 | 178 | 118 |
| 8% | 104 | 175 | 262 | 42 | 110 | 82 | 30 | 178 | 118 |
| 7% | 104 | 176 | 262 | 43 | 110 | 82 | 30 | 178 | 118 |
| 6% | 105 | 176 | 262 | 43 | 110 | 82 | 30 | 178 | 118 |
| 5% | 105 | 176 | 262 | 43 | 110 | 82 | 30 | 178 | 118 |
| 4% | 105 | 176 | 262 | 43 | 111 | 82 | 30 | 178 | 119 |
| 3% | 105 | 176 | 262 | 43 | 111 | 82 | 30 | 178 | 119 |
| 2% | 105 | 176 | 262 | 43 | 111 | 82 | 30 | 178 | 119 |
| 1% | 105 | 176 | 262 | 43 | 111 | 82 | 31 | 178 | 119 |
| 0% | 105 | 176 | 262 | 43 | 112 | 82 | 31 | 178 | 119 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Passage Days Lost | | | | | | | | |
|---|---|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 2% | 1% | - | 2% | 5% | 2% | 3% | - | 1% |
| 9% | 2% | 1% | - | 2% | 4% | 1% | 3% | - | 1% |
| 8% | 1% | 1% | - | 2% | 2% | - | 3% | - | 1% |
| 7% | 1% | - | - | - | 2% | - | 3% | - | 1% |
| 6% | - | - | - | - | 2% | - | 3% | - | 1% |
| 5% | - | - | - | - | 2% | - | 3% | - | 1% |
| 4% | - | - | - | - | 1% | - | 3% | - | - |
| 3% | - | - | - | - | 1% | - | 3% | - | - |
| 2% | - | - | - | - | 1% | - | 3% | - | - |
| 1% | - | - | - | - | 1% | - | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of passage days

Table E-58 Unimpaired and Impaired Spawning Days in February, Scenario A3

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 93 | 71 | 80 | 17 | 5 | 24 | 25 | 138 | 79 |

| Maximum Cumulative Volume Depletion (%) | Impaired Spawning Days | | | | | | | | |
|---|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 92 | 69 | 80 | 17 | 5 | 24 | 25 | 138 | 78 |
| 9% | 92 | 69 | 80 | 17 | 5 | 24 | 25 | 138 | 79 |
| 8% | 92 | 69 | 80 | 17 | 5 | 24 | 25 | 138 | 79 |
| 7% | 93 | 71 | 80 | 17 | 5 | 24 | 25 | 138 | 79 |
| 6% | 93 | 71 | 80 | 17 | 5 | 24 | 25 | 138 | 79 |
| 5% | 93 | 71 | 80 | 17 | 5 | 24 | 25 | 138 | 79 |
| 4% | 93 | 71 | 80 | 17 | 5 | 24 | 25 | 138 | 79 |
| 3% | 93 | 71 | 80 | 17 | 5 | 24 | 25 | 138 | 79 |
| 2% | 93 | 71 | 80 | 17 | 5 | 24 | 25 | 138 | 79 |
| 1% | 93 | 71 | 80 | 17 | 5 | 24 | 25 | 138 | 79 |
| 0% | 93 | 71 | 80 | 17 | 5 | 24 | 25 | 138 | 79 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Spawning Days Lost | | | | | | | | |
|---|--|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 1% | 3% | - | - | - | - | - | - | 1% |
| 9% | 1% | 3% | - | - | - | - | - | - | - |
| 8% | 1% | 3% | - | - | - | - | - | - | - |
| 7% | - | - | - | - | - | - | - | - | - |
| 6% | - | - | - | - | - | - | - | - | - |
| 5% | - | - | - | - | - | - | - | - | - |
| 4% | - | - | - | - | - | - | - | - | - |
| 3% | - | - | - | - | - | - | - | - | - |
| 2% | - | - | - | - | - | - | - | - | - |
| 1% | - | - | - | - | - | - | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of spawning days

Table E-59 Unimpaired and Impaired Passage Days in March, Scenario A3

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | 120 | 200 | 283 | 52 | 118 | 97 | 36 | 167 |

| Maximum Cumulative Volume Depletion (%) | Impaired Passage Days | | | | | | | | |
|---|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 118 | 200 | 283 | 51 | 117 | 97 | 36 | 167 | 115 |
| 9% | 118 | 200 | 283 | 51 | 118 | 97 | 36 | 167 | 115 |
| 8% | 120 | 200 | 283 | 51 | 118 | 97 | 36 | 167 | 115 |
| 7% | 120 | 200 | 283 | 51 | 118 | 97 | 36 | 167 | 115 |
| 6% | 120 | 200 | 283 | 52 | 118 | 97 | 36 | 167 | 115 |
| 5% | 120 | 200 | 283 | 52 | 118 | 97 | 36 | 167 | 115 |
| 4% | 120 | 200 | 283 | 52 | 118 | 97 | 36 | 167 | 115 |
| 3% | 120 | 200 | 283 | 52 | 118 | 97 | 36 | 167 | 115 |
| 2% | 120 | 200 | 283 | 52 | 118 | 97 | 36 | 167 | 115 |
| 1% | 120 | 200 | 283 | 52 | 118 | 97 | 36 | 167 | 115 |
| 0% | 120 | 200 | 283 | 52 | 118 | 97 | 36 | 167 | 115 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Passage Days Lost | | | | | | | | |
|---|---|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 2% | - | - | 2% | 1% | - | - | - | - |
| 9% | 2% | - | - | 2% | - | - | - | - | - |
| 8% | - | - | - | 2% | - | - | - | - | - |
| 7% | - | - | - | 2% | - | - | - | - | - |
| 6% | - | - | - | - | - | - | - | - | - |
| 5% | - | - | - | - | - | - | - | - | - |
| 4% | - | - | - | - | - | - | - | - | - |
| 3% | - | - | - | - | - | - | - | - | - |
| 2% | - | - | - | - | - | - | - | - | - |
| 1% | - | - | - | - | - | - | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of passage days

Table E-60 Unimpaired and Impaired Spawning Days in March, Scenario A3

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 102 | 75 | 82 | 24 | 4 | 29 | 29 | 140 | 81 |

| Maximum Cumulative Volume Depletion (%) | Impaired Spawning Days | | | | | | | | |
|---|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 101 | 74 | 82 | 24 | 4 | 29 | 29 | 140 | 80 |
| 9% | 101 | 75 | 82 | 24 | 4 | 29 | 29 | 140 | 80 |
| 8% | 101 | 75 | 82 | 24 | 4 | 29 | 29 | 140 | 80 |
| 7% | 102 | 75 | 82 | 24 | 4 | 29 | 29 | 140 | 81 |
| 6% | 102 | 75 | 82 | 24 | 4 | 29 | 29 | 140 | 81 |
| 5% | 102 | 75 | 82 | 24 | 4 | 29 | 29 | 140 | 81 |
| 4% | 102 | 75 | 82 | 24 | 4 | 29 | 29 | 140 | 81 |
| 3% | 102 | 75 | 82 | 24 | 4 | 29 | 29 | 140 | 81 |
| 2% | 102 | 75 | 82 | 24 | 4 | 29 | 29 | 140 | 81 |
| 1% | 102 | 75 | 82 | 24 | 4 | 29 | 29 | 140 | 81 |
| 0% | 102 | 75 | 82 | 24 | 4 | 29 | 29 | 140 | 81 |

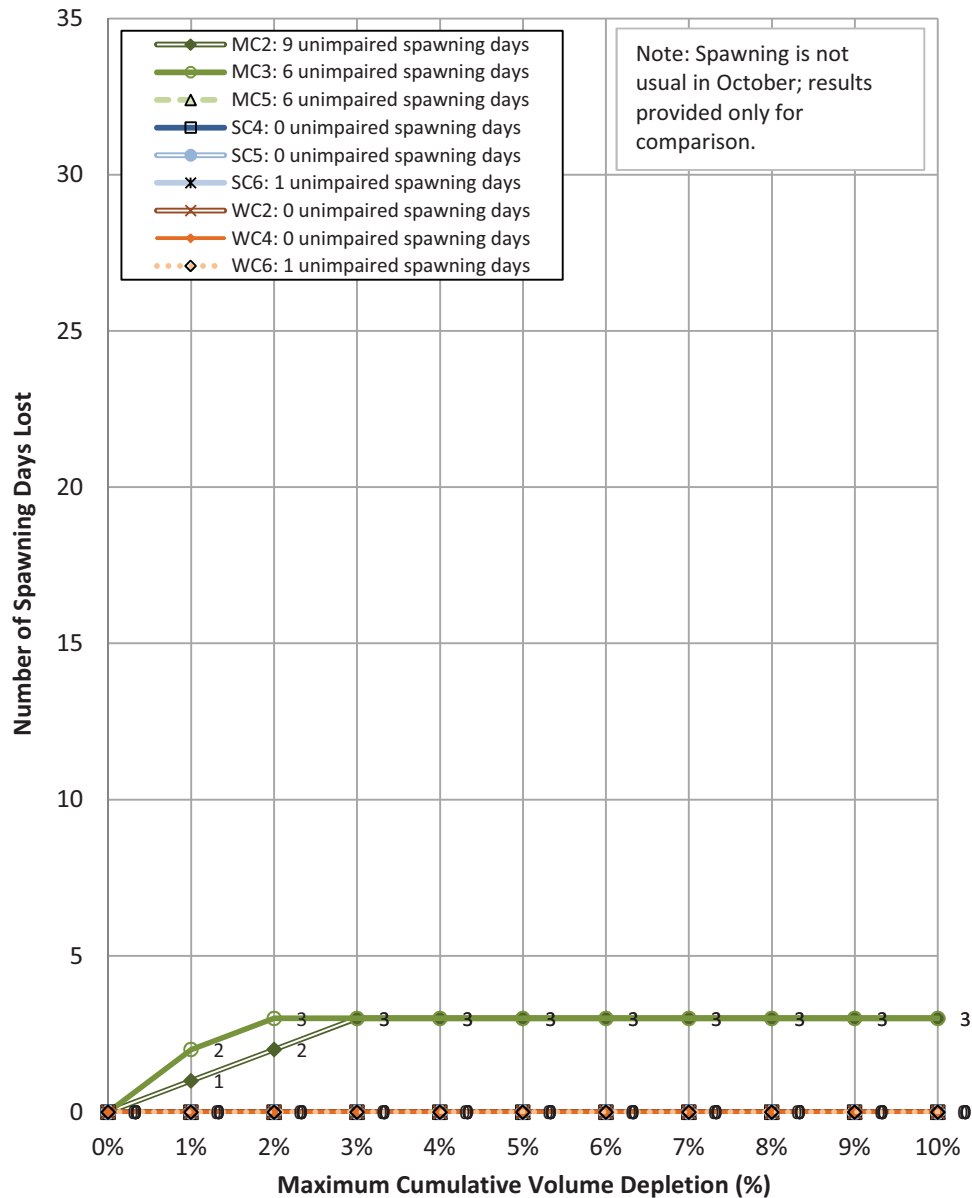
| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Spawning Days Lost | | | | | | | | |
|---|--|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 1% | 1% | - | - | - | - | - | - | 1% |
| 9% | 1% | - | - | - | - | - | - | - | 1% |
| 8% | 1% | - | - | - | - | - | - | - | 1% |
| 7% | - | - | - | - | - | - | - | - | - |
| 6% | - | - | - | - | - | - | - | - | - |
| 5% | - | - | - | - | - | - | - | - | - |
| 4% | - | - | - | - | - | - | - | - | - |
| 3% | - | - | - | - | - | - | - | - | - |
| 2% | - | - | - | - | - | - | - | - | - |
| 1% | - | - | - | - | - | - | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of spawning days

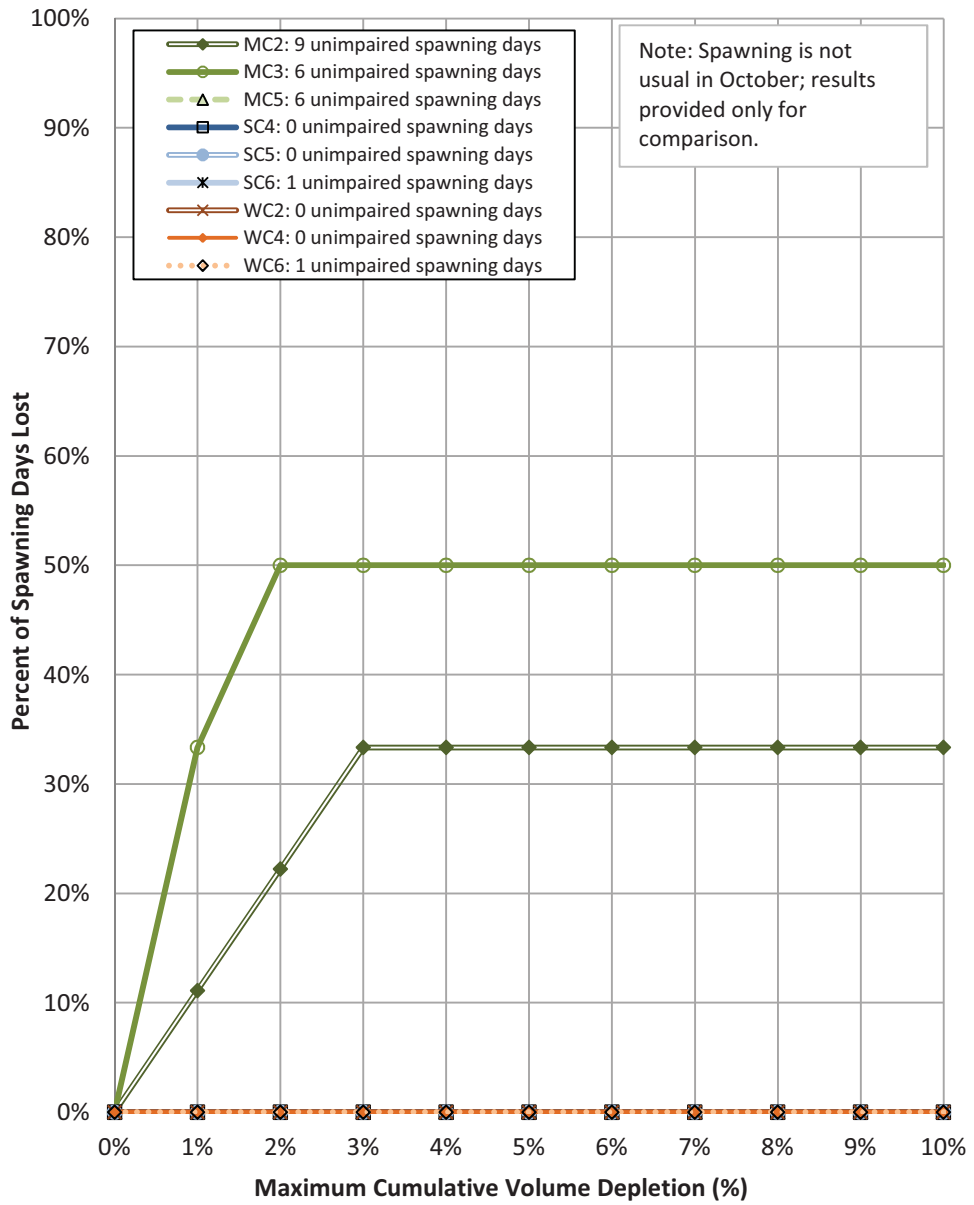
Number of Unimpaired Spawning Days Lost

Scenario A3, October



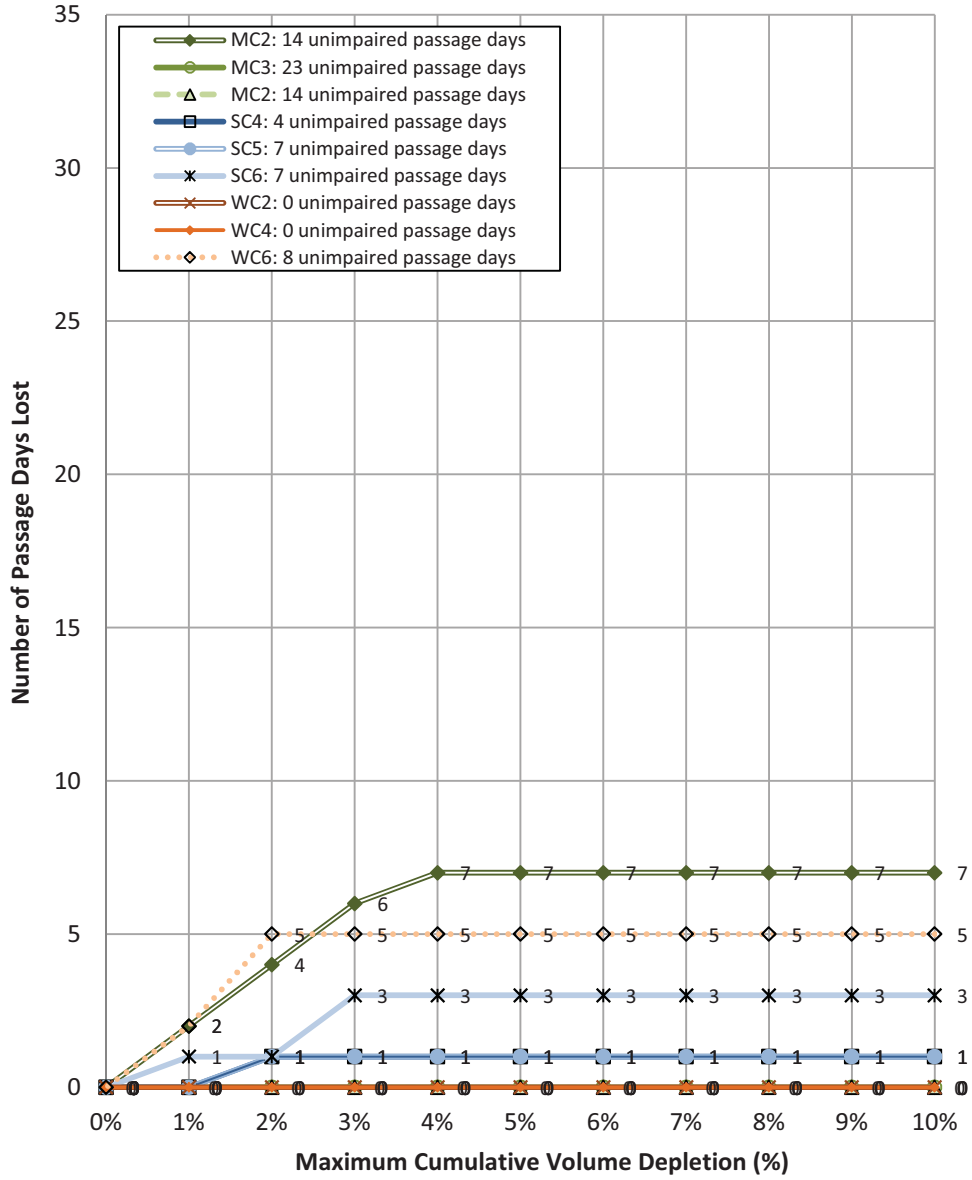
Percent of Unimpaired Spawning Days Lost

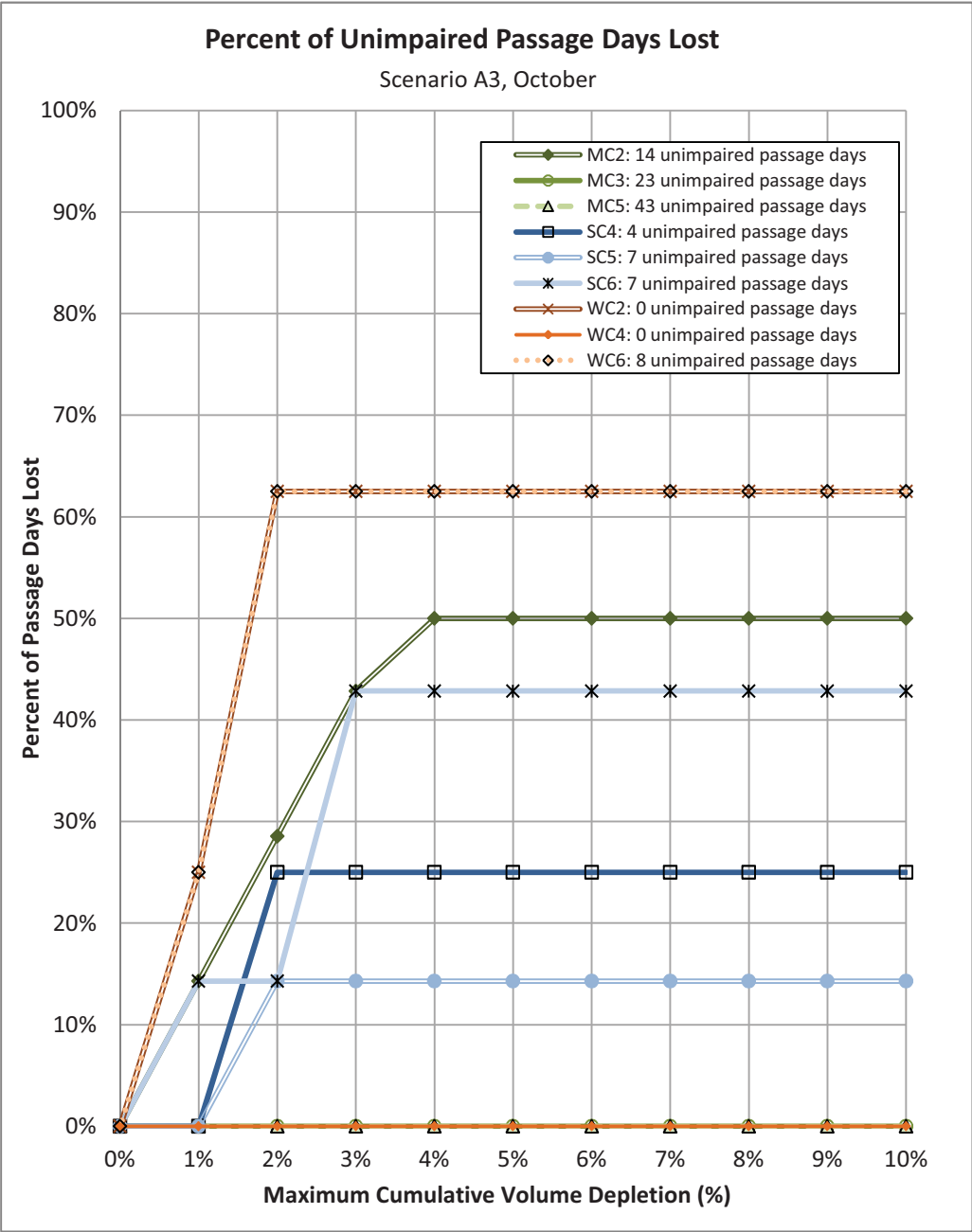
Scenario A3, October



Number of Unimpaired Passage Days Lost

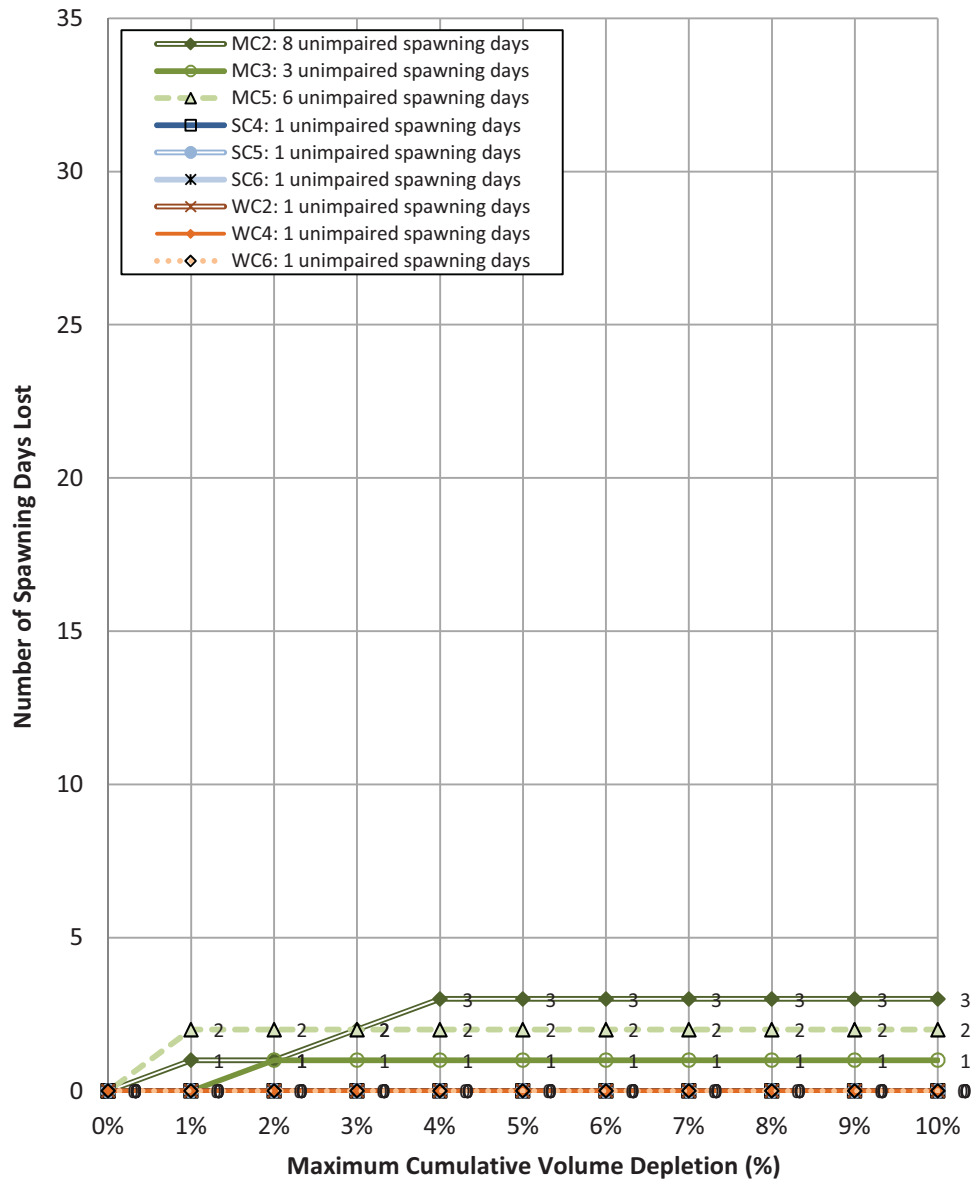
Scenario A3, October





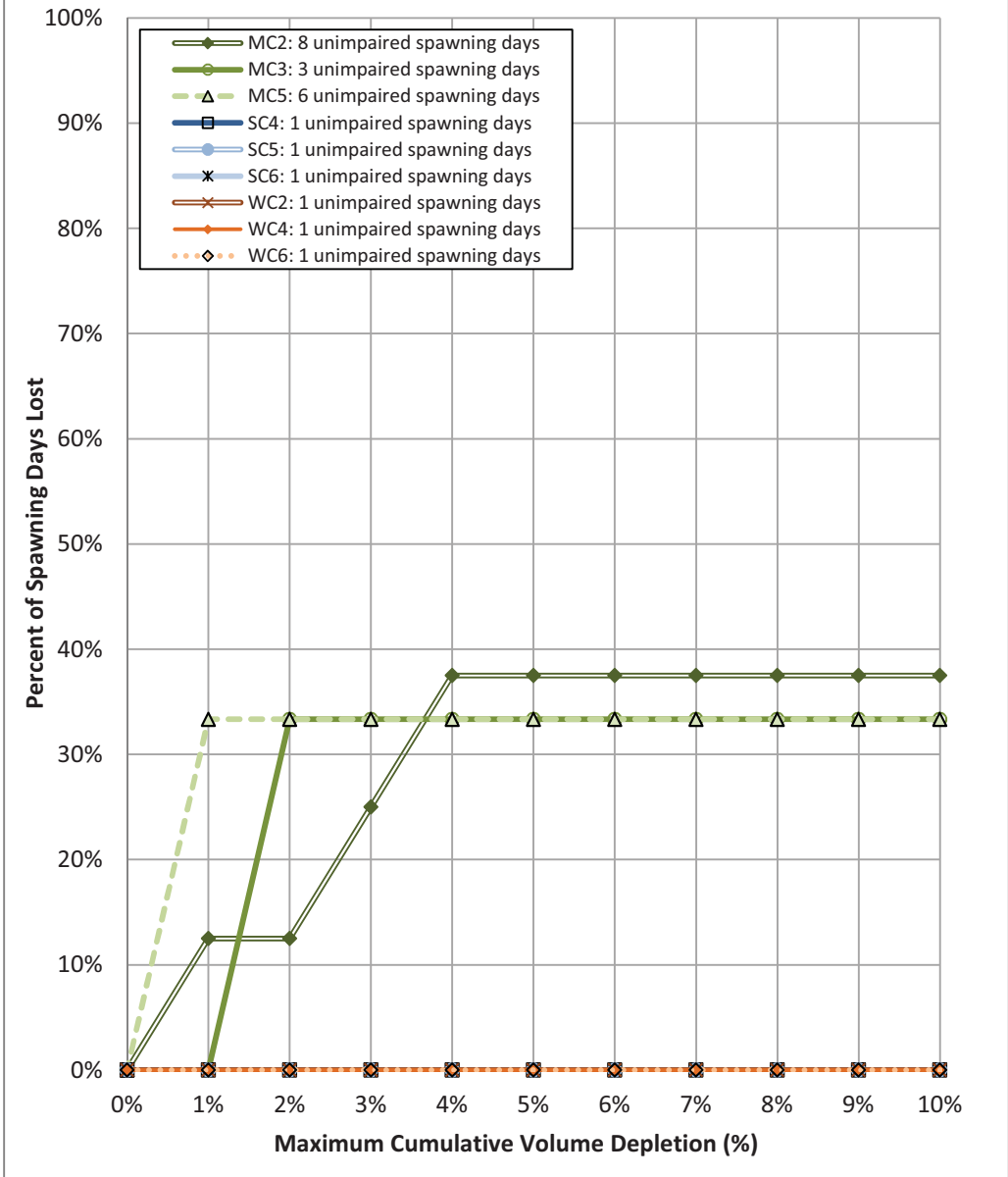
Number of Unimpaired Spawning Days Lost

Scenario A3, November



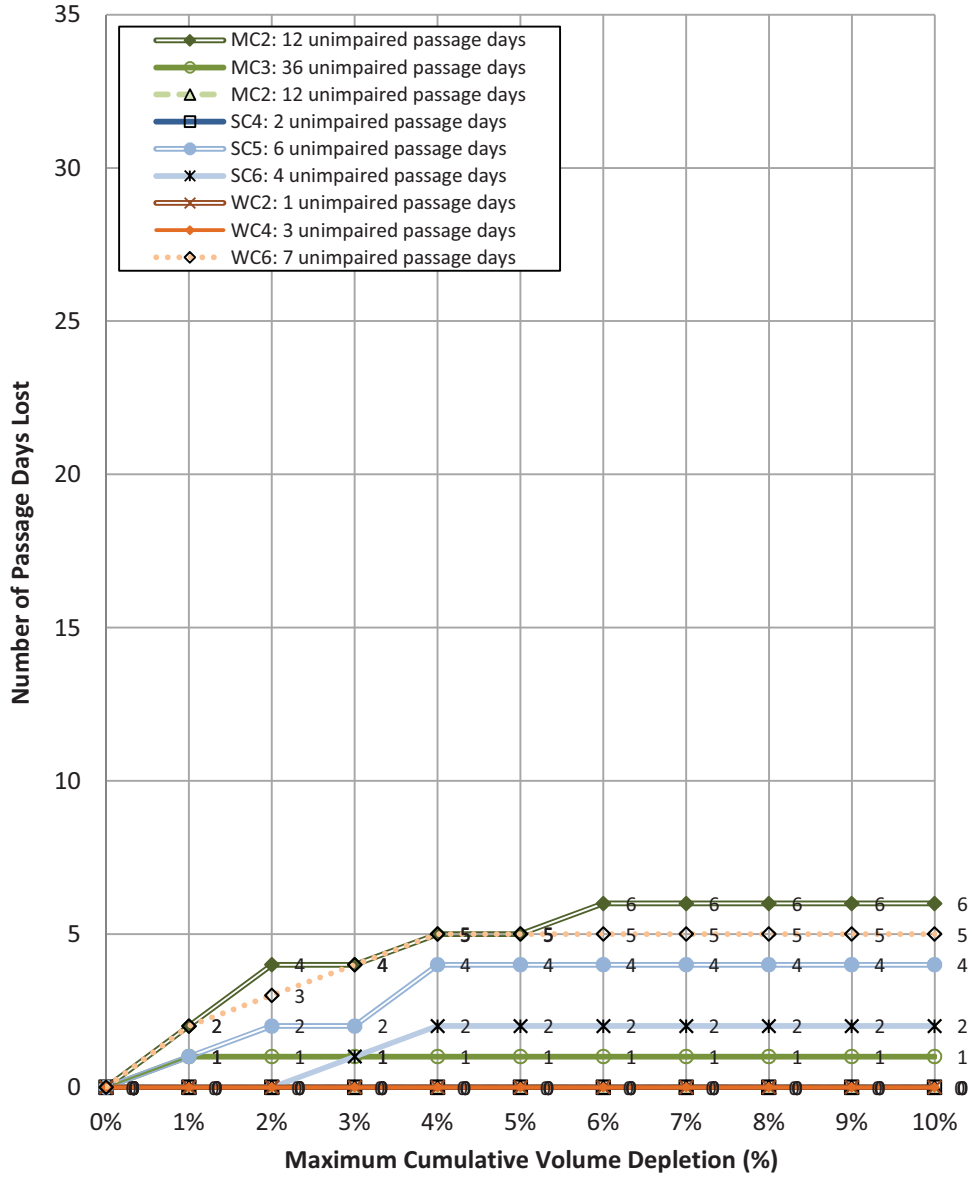
Percent of Unimpaired Spawning Days Lost

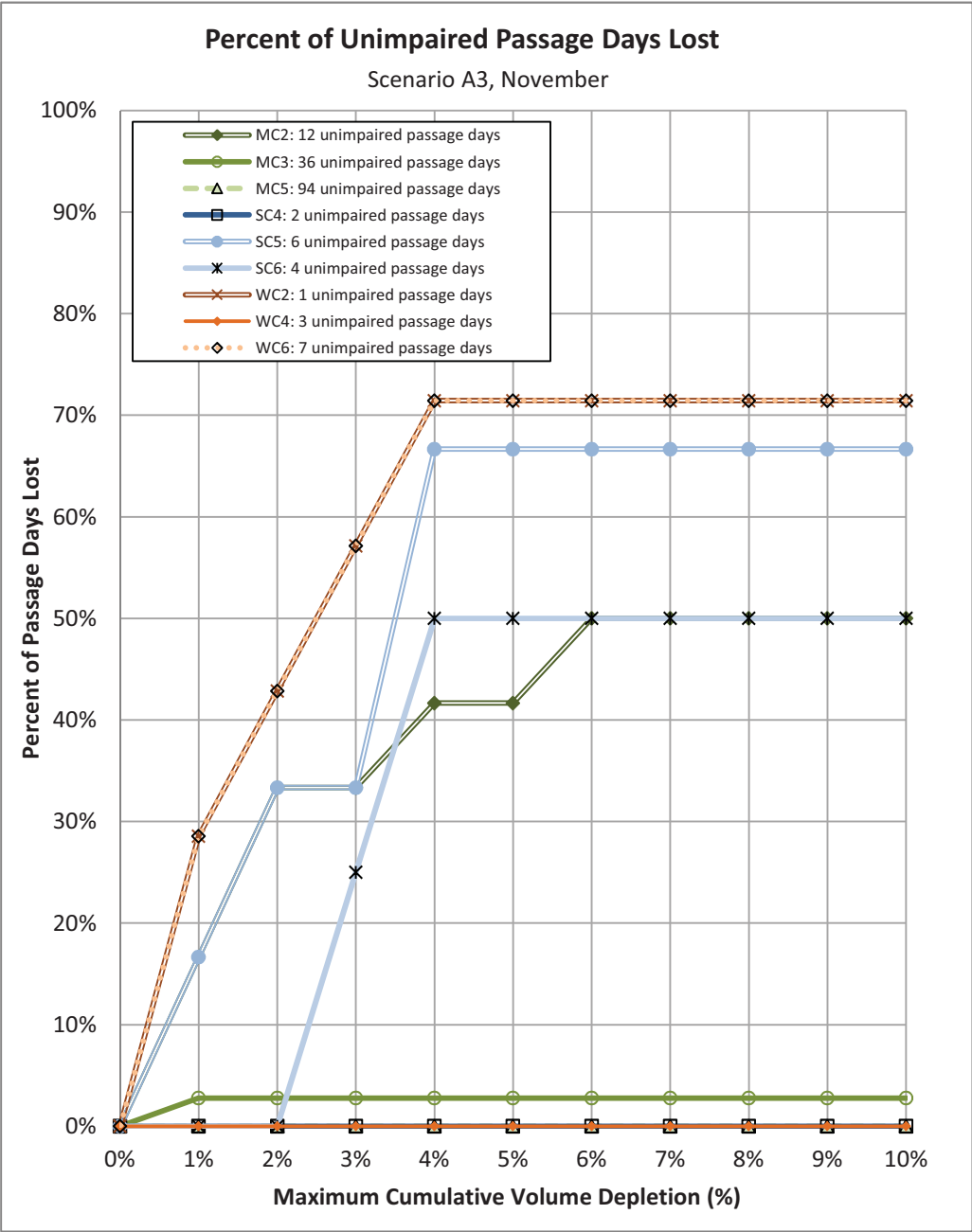
Scenario A3, November



Number of Unimpaired Passage Days Lost

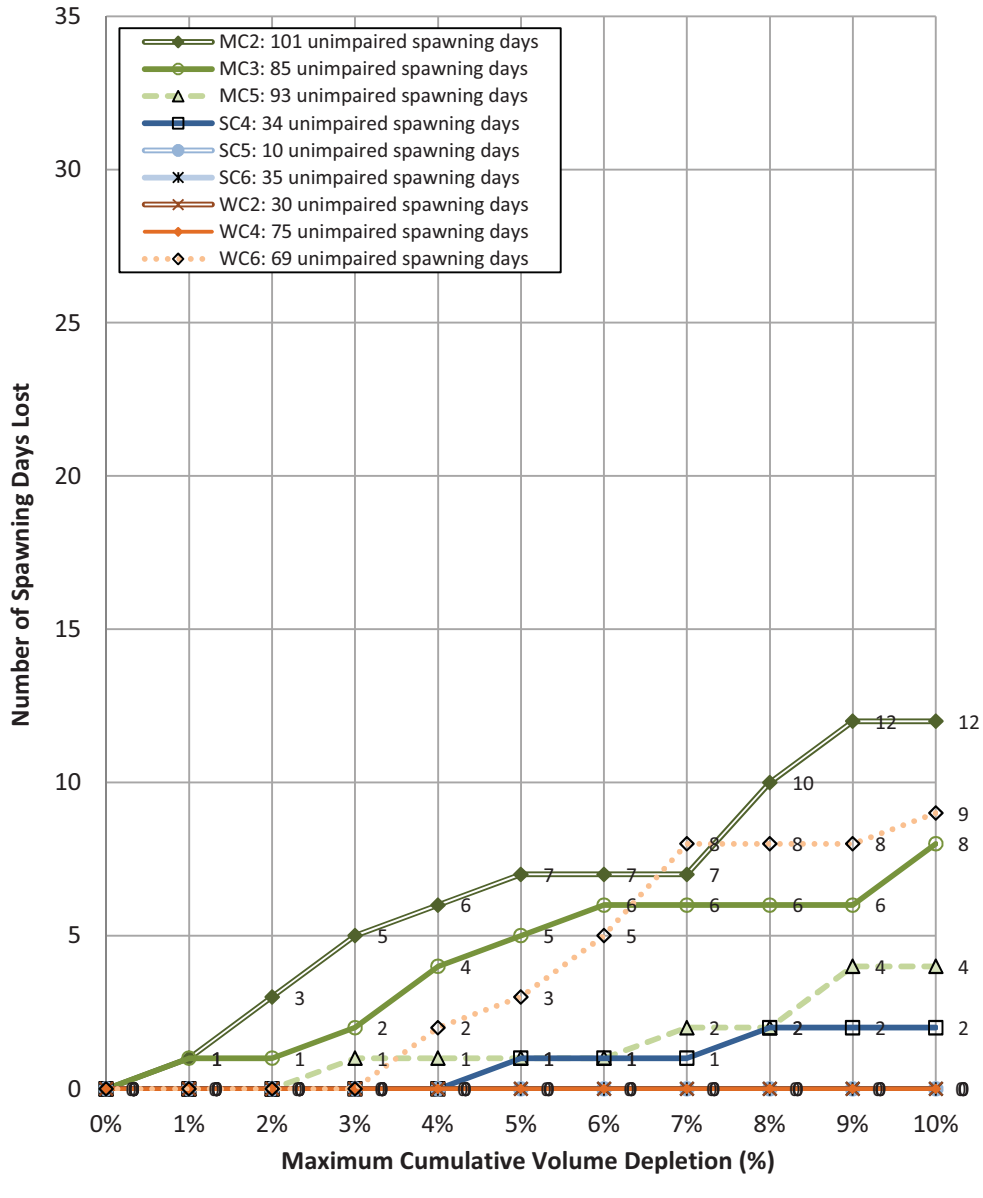
Scenario A3, November





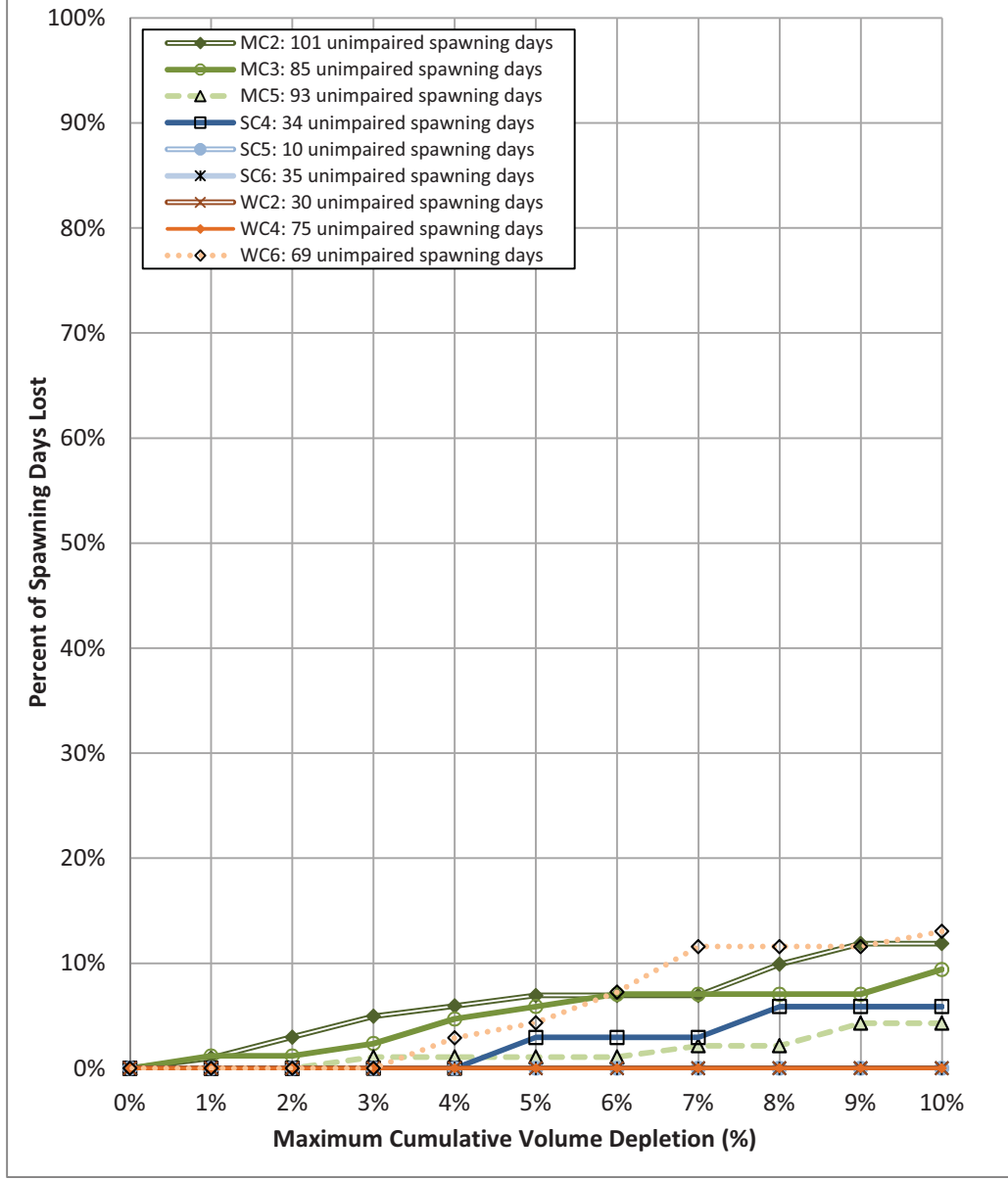
Number of Unimpaired Spawning Days Lost

Scenario A3, December



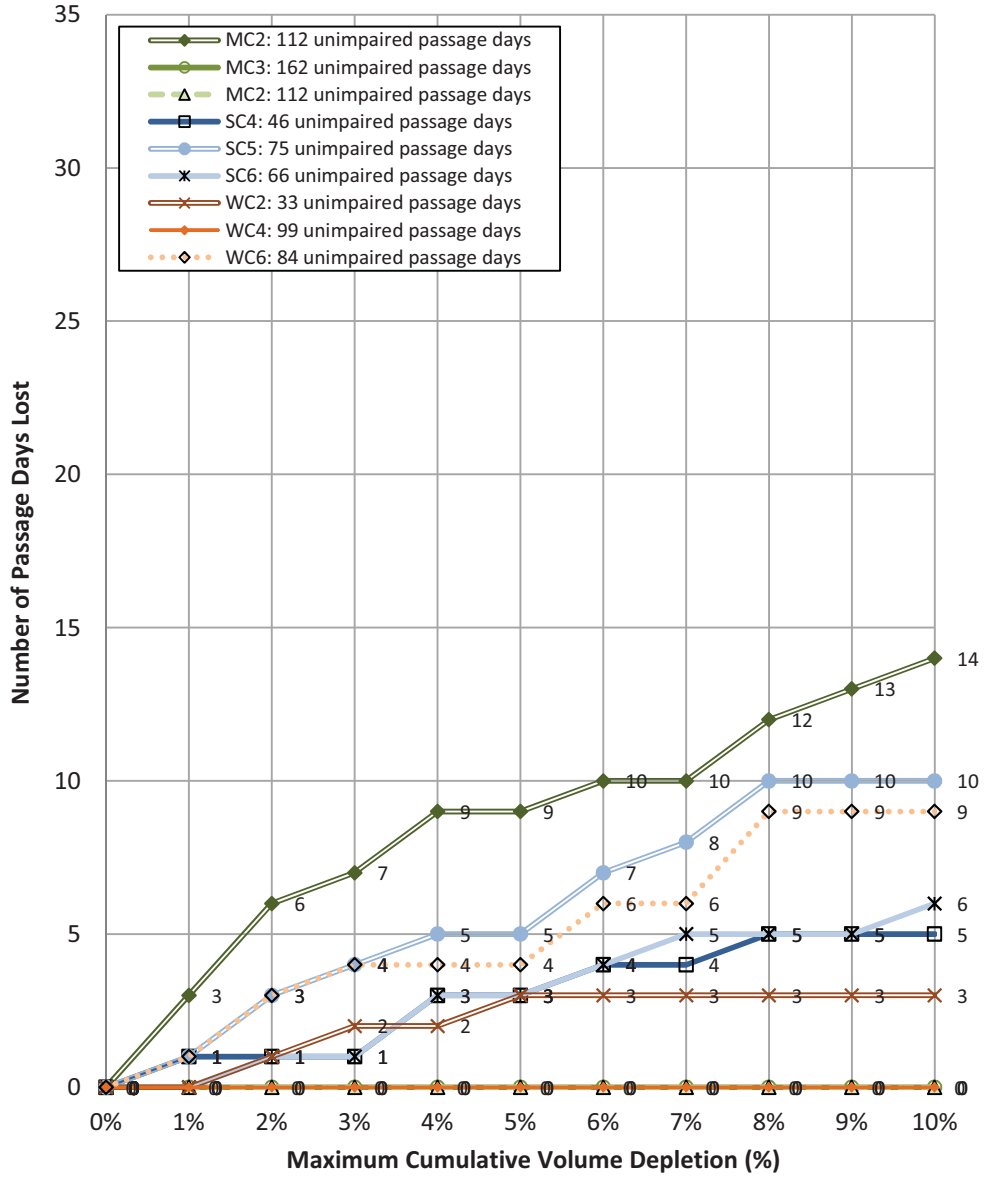
Percent of Unimpaired Spawning Days Lost

Scenario A3, December



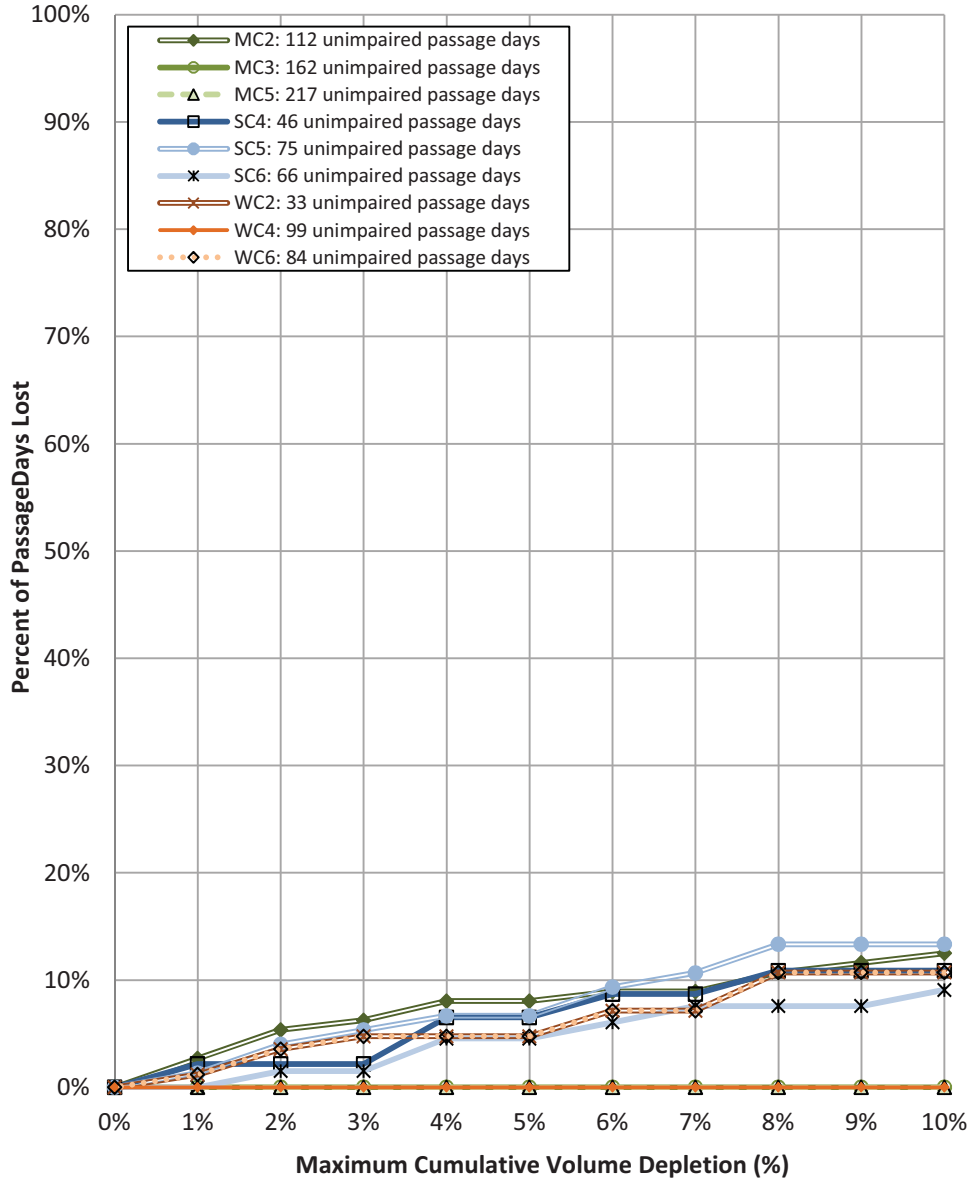
Number of Unimpaired Passage Days Lost

Scenario A3, December



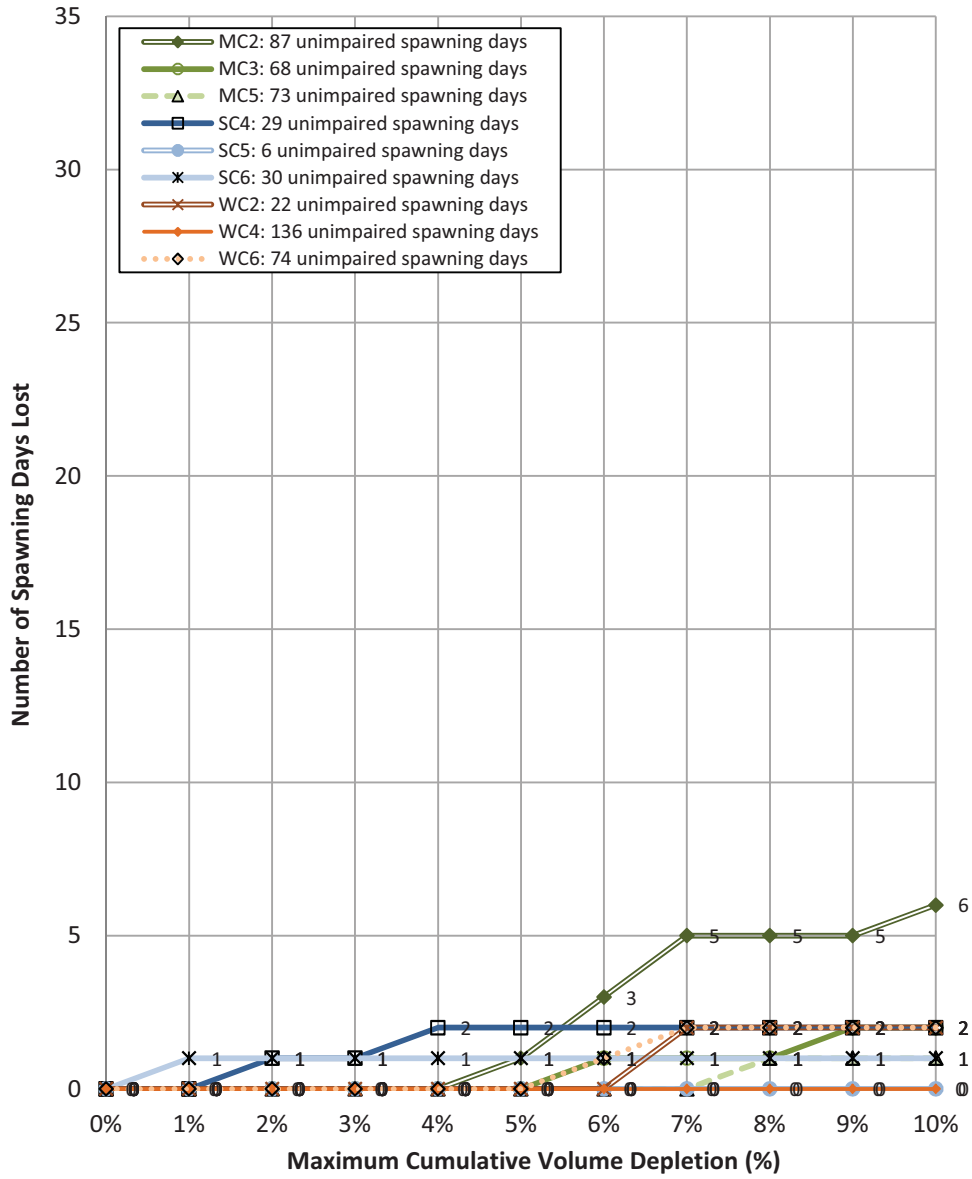
Percent of Unimpaired Passage Days Lost

Scenario A3, December



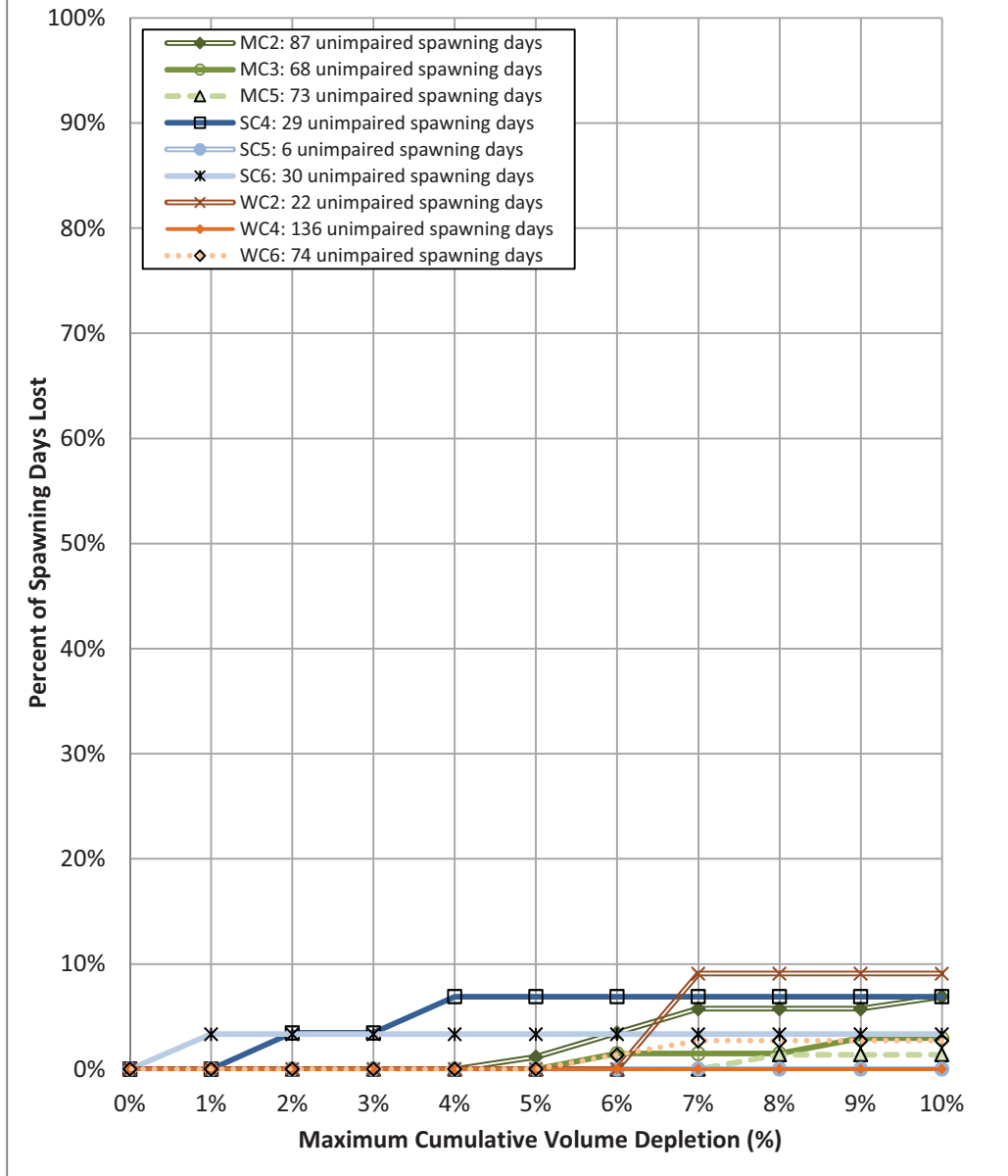
Number of Unimpaired Spawning Days Lost

Scenario A3, January



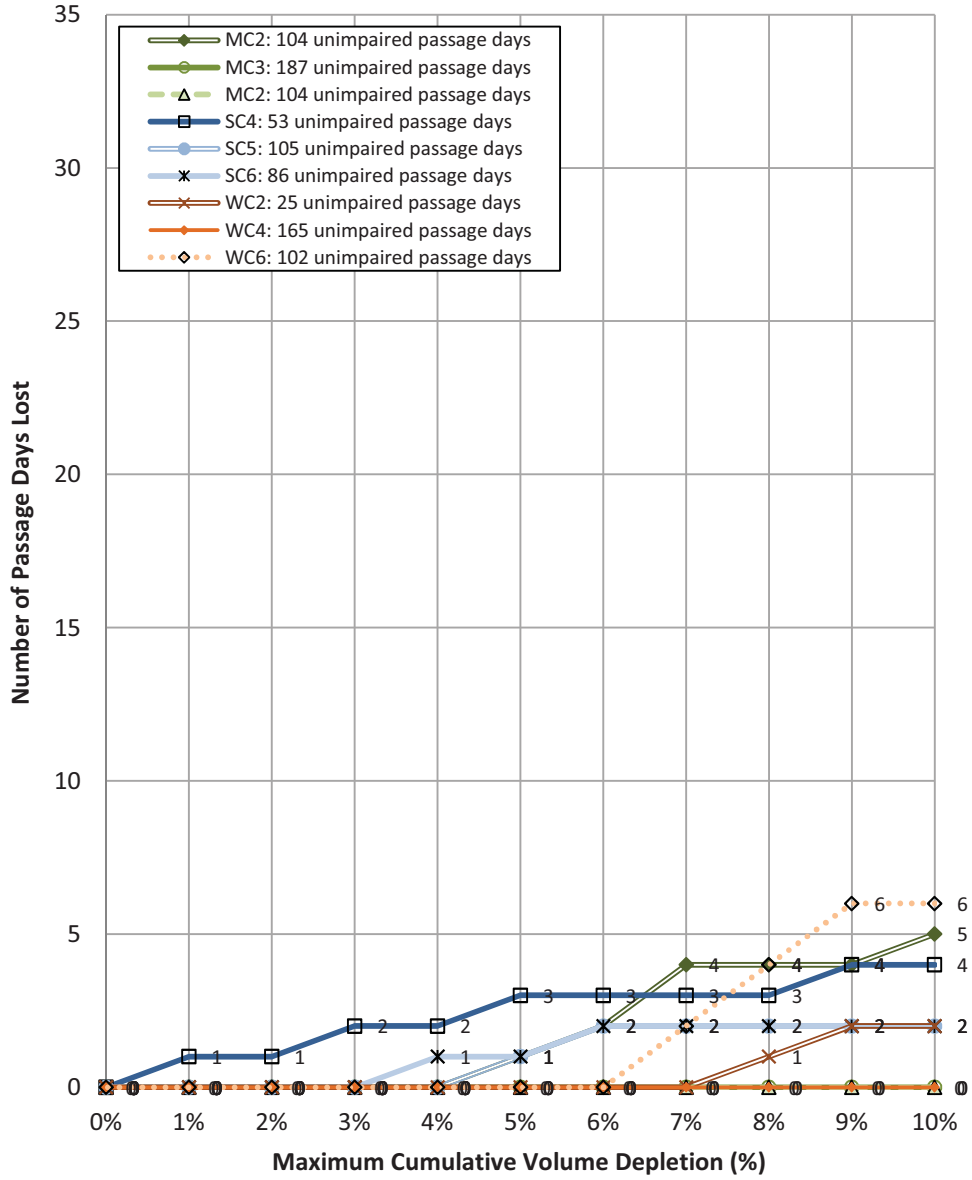
Percent of Unimpaired Spawning Days Lost

Scenario A3, January



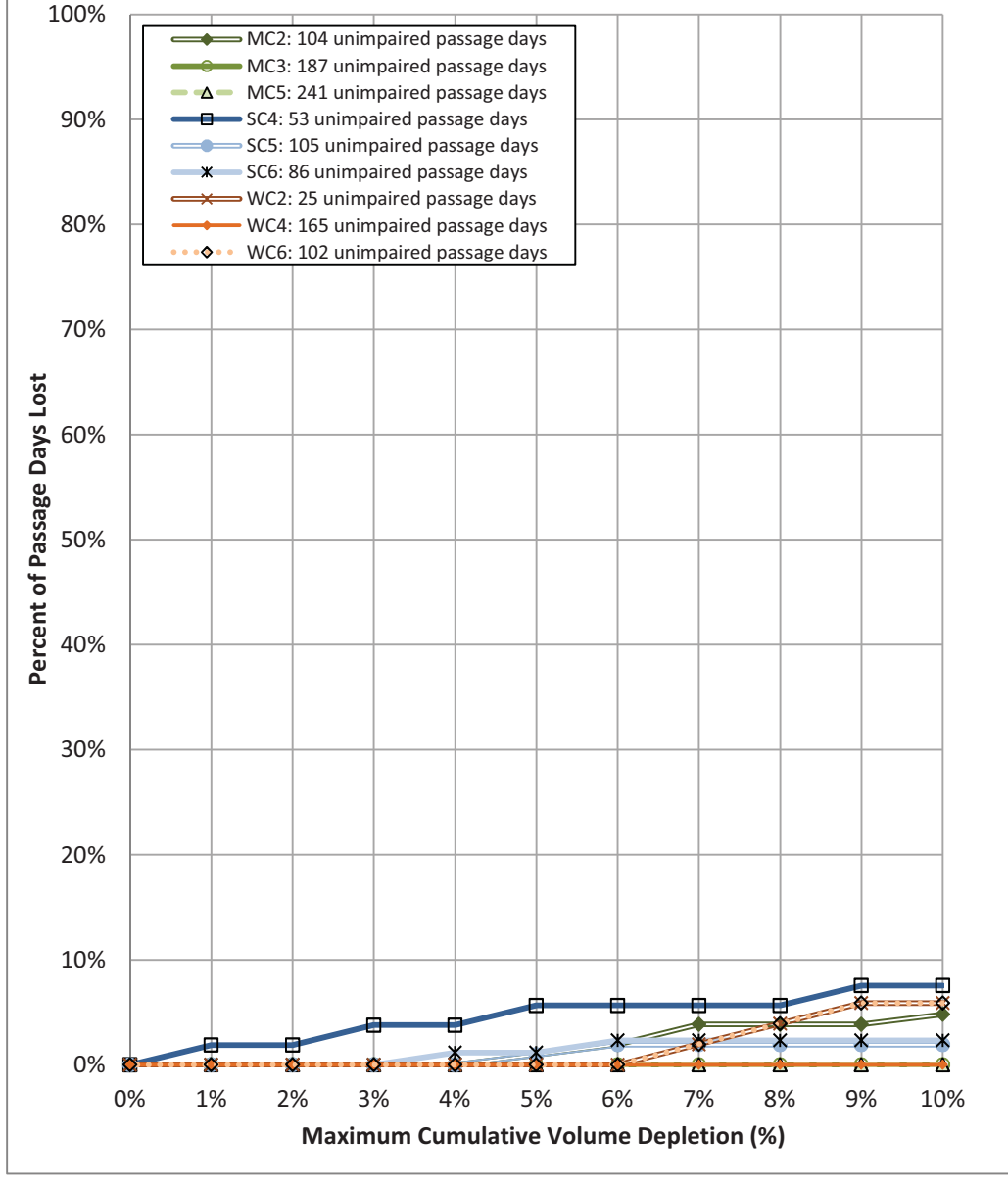
Number of Unimpaired Passage Days Lost

Scenario A3, January



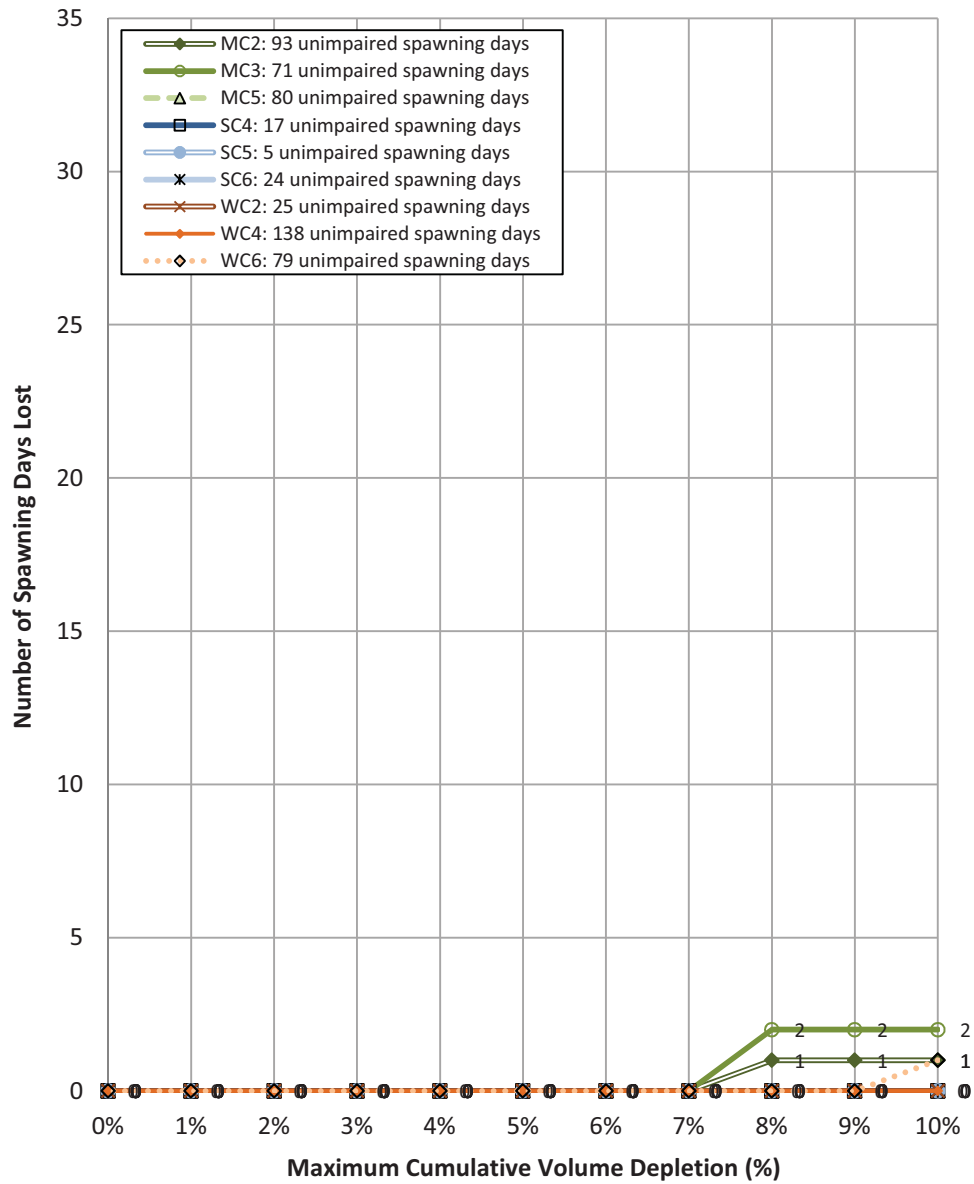
Percent of Unimpaired Passage Days Lost

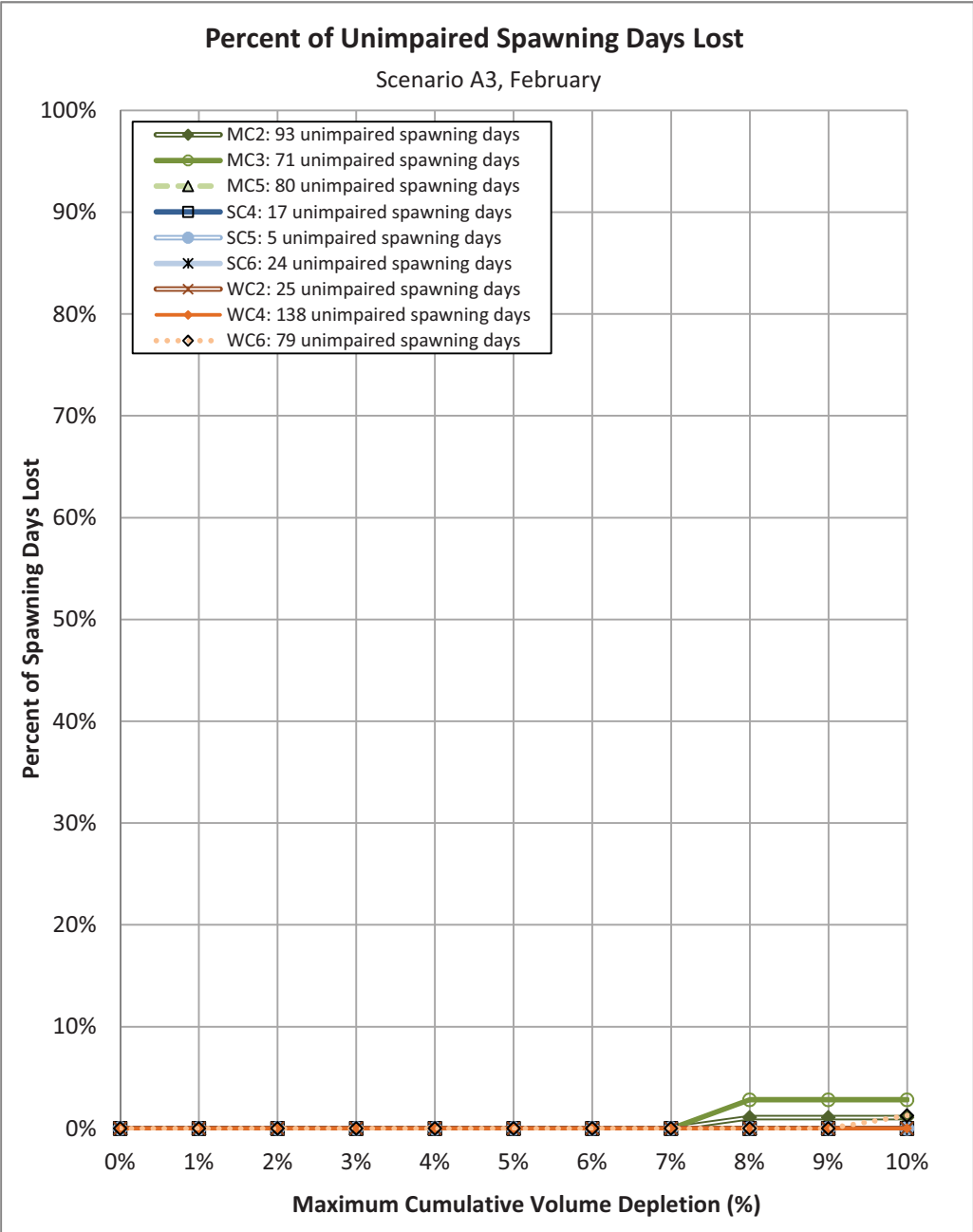
Scenario A3, January



Number of Unimpaired Spawning Days Lost

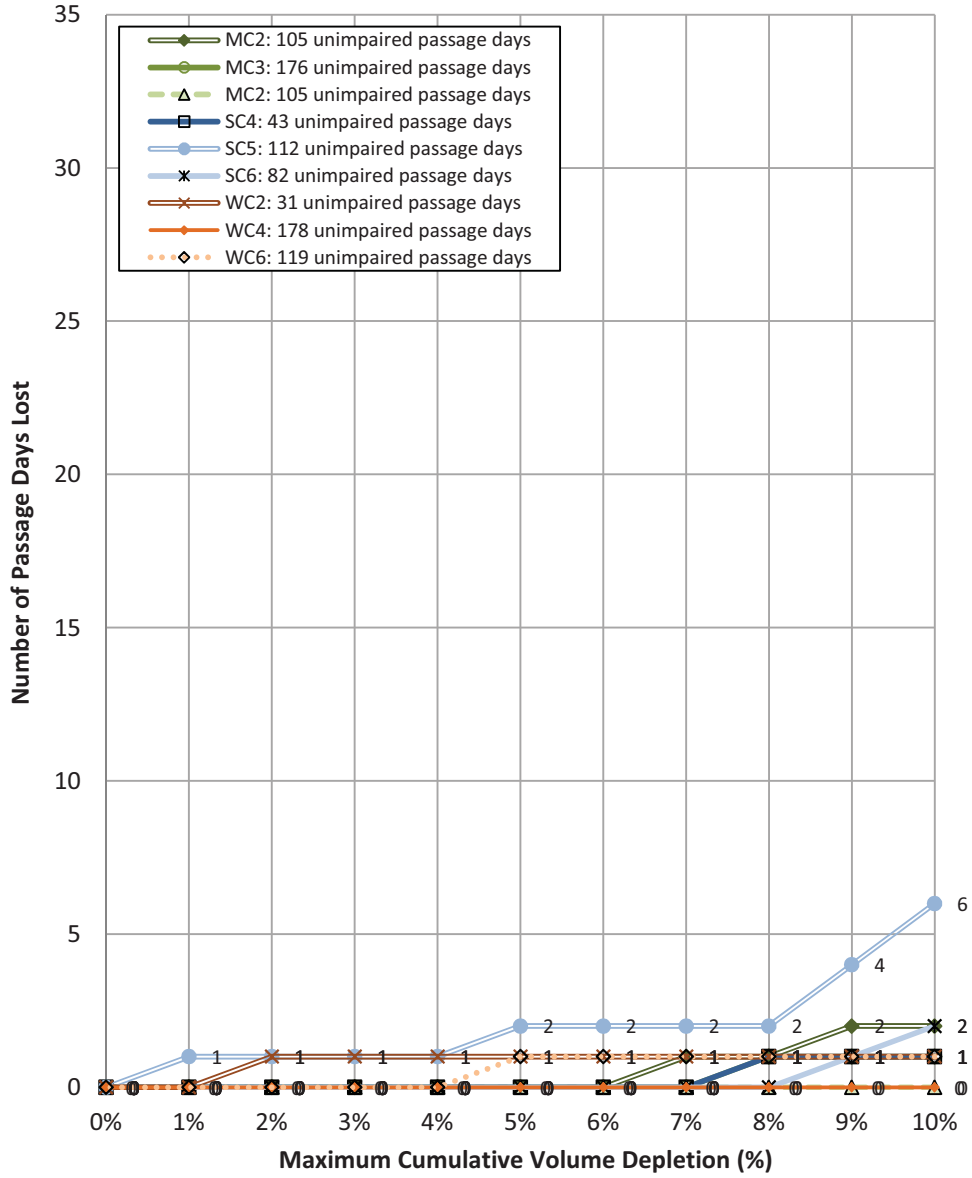
Scenario A3, February





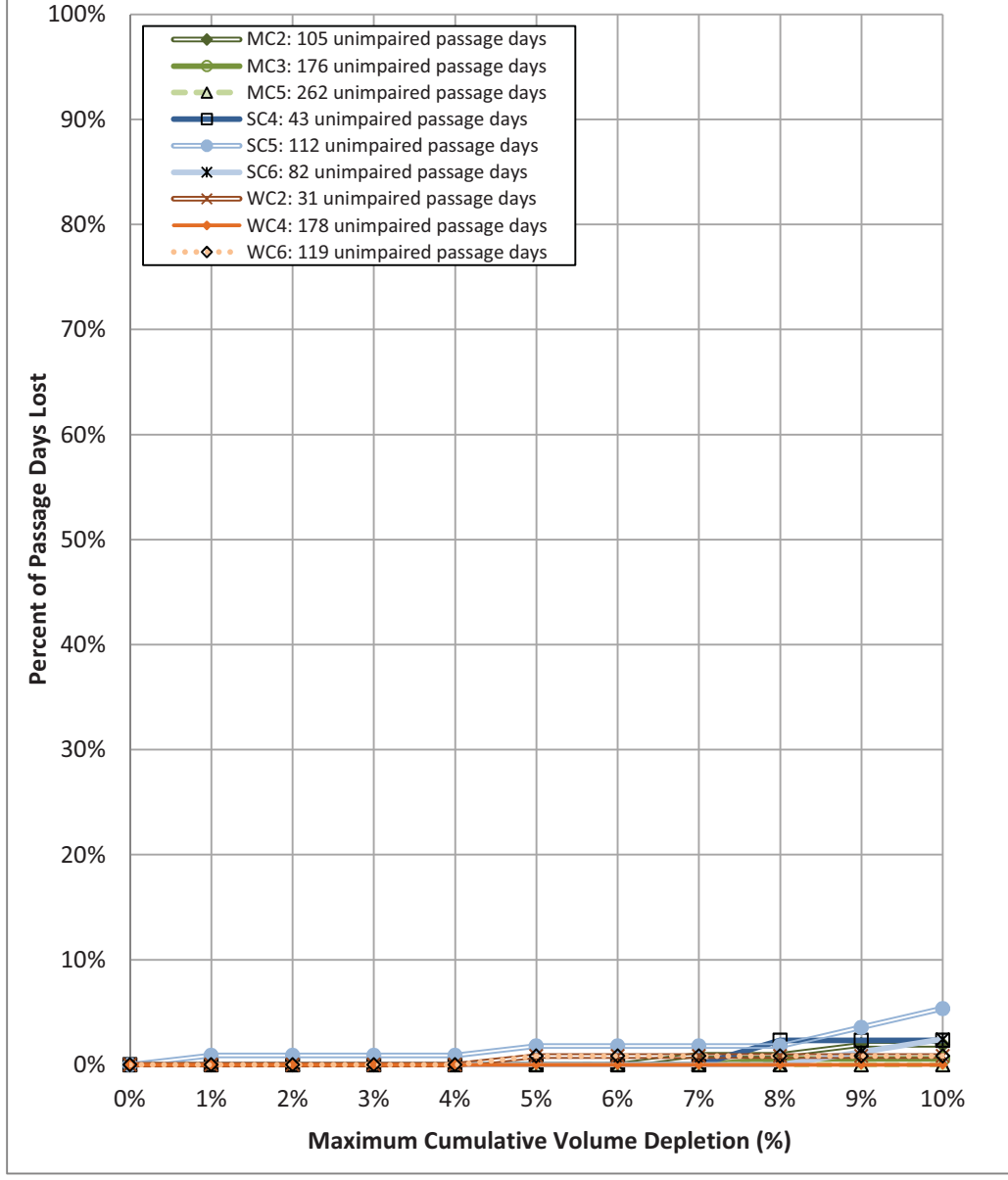
Number of Unimpaired Passage Days Lost

Scenario A3, February



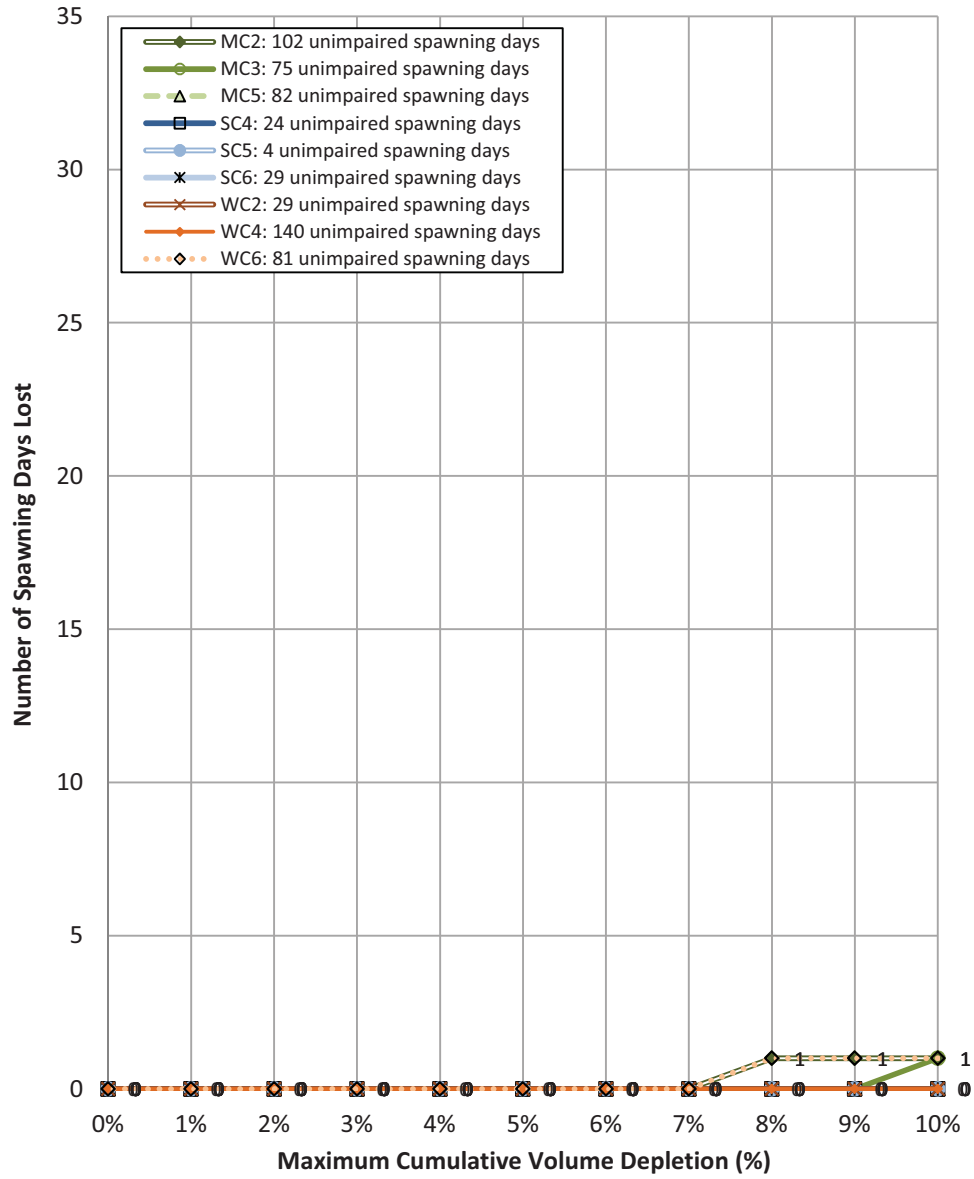
Percent of Unimpaired Passage Days Lost

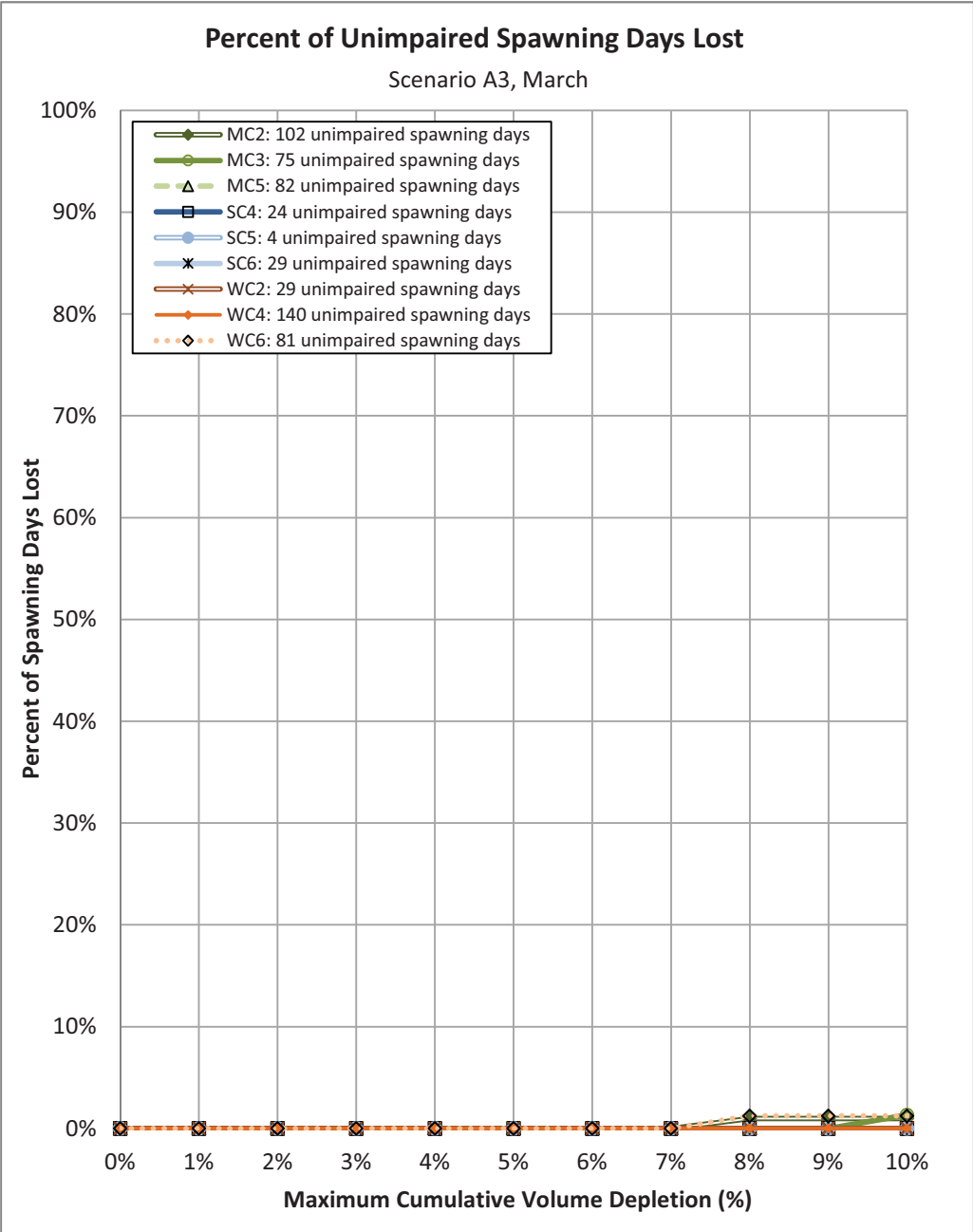
Scenario A3, February



Number of Unimpaired Spawning Days Lost

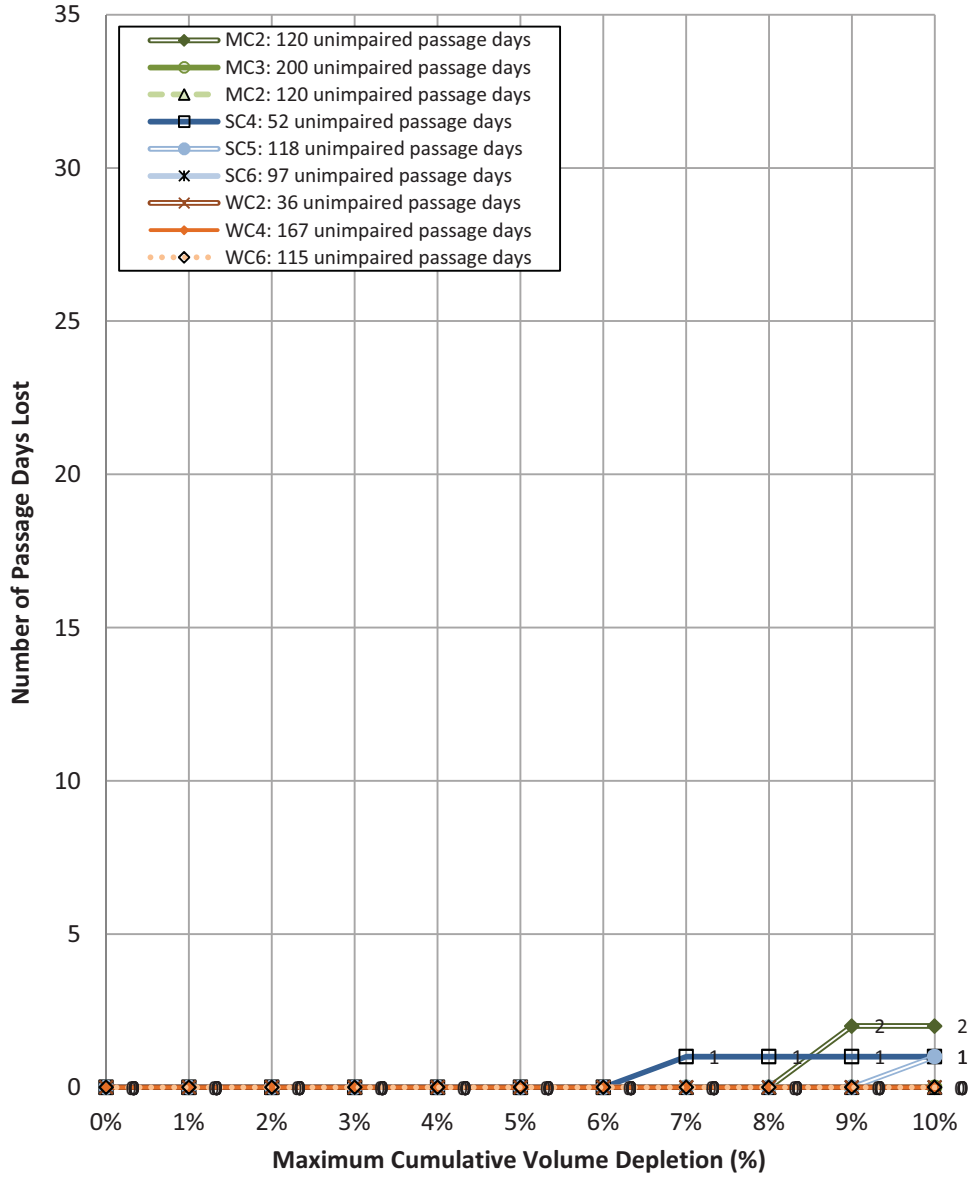
Scenario A3, March





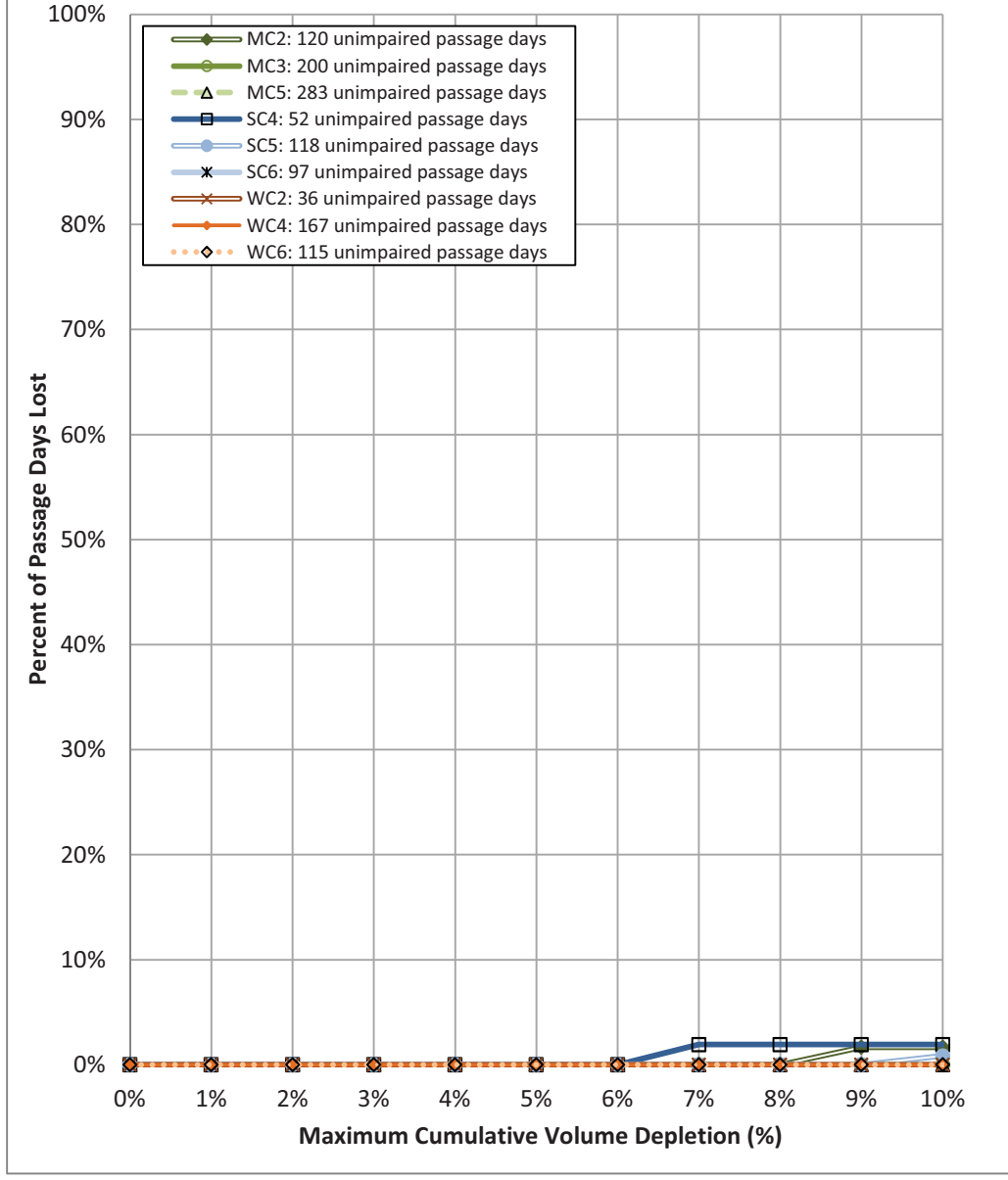
Number of Unimpaired Passage Days Lost

Scenario A3, March



Percent of Unimpaired Passage Days Lost

Scenario A3, March



6. Appendix E: Scenario A4 Passage and Spawning Day Tables, Graphs

Table E-61 Unimpaired and Impaired Passage Days in October, Scenario A4

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 14 | 23 | 43 | 4 | 7 | 7 | 0 | 0 | 8 |

| Maximum Cumulative Volume Depletion (%) | Impaired Passage Days | | | | | | | | |
|---|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 14 | 23 | 43 | 4 | 7 | 7 | 0 | 0 | 8 |
| 9% | 14 | 23 | 43 | 4 | 7 | 7 | 0 | 0 | 8 |
| 8% | 14 | 23 | 43 | 4 | 7 | 7 | 0 | 0 | 8 |
| 7% | 14 | 23 | 43 | 4 | 7 | 7 | 0 | 0 | 8 |
| 6% | 14 | 23 | 43 | 4 | 7 | 7 | 0 | 0 | 8 |
| 5% | 14 | 23 | 43 | 4 | 7 | 7 | 0 | 0 | 8 |
| 4% | 14 | 23 | 43 | 4 | 7 | 7 | 0 | 0 | 8 |
| 3% | 14 | 23 | 43 | 4 | 7 | 7 | 0 | 0 | 8 |
| 2% | 14 | 23 | 43 | 4 | 7 | 7 | 0 | 0 | 8 |
| 1% | 14 | 23 | 43 | 4 | 7 | 7 | 0 | 0 | 8 |
| 0% | 14 | 23 | 43 | 4 | 7 | 7 | 0 | 0 | 8 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Passage Days Lost | | | | | | | | |
|---|---|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | - | - | - | - | - | - | - | - | - |
| 9% | - | - | - | - | - | - | - | - | - |
| 8% | - | - | - | - | - | - | - | - | - |
| 7% | - | - | - | - | - | - | - | - | - |
| 6% | - | - | - | - | - | - | - | - | - |
| 5% | - | - | - | - | - | - | - | - | - |
| 4% | - | - | - | - | - | - | - | - | - |
| 3% | - | - | - | - | - | - | - | - | - |
| 2% | - | - | - | - | - | - | - | - | - |
| 1% | - | - | - | - | - | - | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of passage days

Table E-62 Unimpaired and Impaired Spawning Days in October, Scenario A4

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 9 | 6 | 6 | 0 | 0 | 1 | 0 | 0 | 1 |

| Maximum Cumulative Volume Depletion (%) | Impaired Spawning Days | | | | | | | | |
|---|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 9 | 6 | 6 | 0 | 0 | 1 | 0 | 0 | 1 |
| 9% | 9 | 6 | 6 | 0 | 0 | 1 | 0 | 0 | 1 |
| 8% | 9 | 6 | 6 | 0 | 0 | 1 | 0 | 0 | 1 |
| 7% | 9 | 6 | 6 | 0 | 0 | 1 | 0 | 0 | 1 |
| 6% | 9 | 6 | 6 | 0 | 0 | 1 | 0 | 0 | 1 |
| 5% | 9 | 6 | 6 | 0 | 0 | 1 | 0 | 0 | 1 |
| 4% | 9 | 6 | 6 | 0 | 0 | 1 | 0 | 0 | 1 |
| 3% | 9 | 6 | 6 | 0 | 0 | 1 | 0 | 0 | 1 |
| 2% | 9 | 6 | 6 | 0 | 0 | 1 | 0 | 0 | 1 |
| 1% | 9 | 6 | 6 | 0 | 0 | 1 | 0 | 0 | 1 |
| 0% | 9 | 6 | 6 | 0 | 0 | 1 | 0 | 0 | 1 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Spawning Days Lost | | | | | | | | |
|---|--|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | - | - | - | - | - | - | - | - | - |
| 9% | - | - | - | - | - | - | - | - | - |
| 8% | - | - | - | - | - | - | - | - | - |
| 7% | - | - | - | - | - | - | - | - | - |
| 6% | - | - | - | - | - | - | - | - | - |
| 5% | - | - | - | - | - | - | - | - | - |
| 4% | - | - | - | - | - | - | - | - | - |
| 3% | - | - | - | - | - | - | - | - | - |
| 2% | - | - | - | - | - | - | - | - | - |
| 1% | - | - | - | - | - | - | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Notes:

'-' indicates no loss of spawning days

Spawning is not usual in October; results provided only for comparison.

Table E-63 Unimpaired and Impaired Passage Days in November, Scenario A4

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | 12 | 36 | 94 | 2 | 6 | 4 | 1 | 3 |

| Maximum Cumulative Volume Depletion (%) | Impaired Passage Days | | | | | | | | |
|---|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 12 | 36 | 94 | 2 | 6 | 4 | 1 | 3 | 7 |
| 9% | 12 | 36 | 94 | 2 | 6 | 4 | 1 | 3 | 7 |
| 8% | 12 | 36 | 94 | 2 | 6 | 4 | 1 | 3 | 7 |
| 7% | 12 | 36 | 94 | 2 | 6 | 4 | 1 | 3 | 7 |
| 6% | 12 | 36 | 94 | 2 | 6 | 4 | 1 | 3 | 7 |
| 5% | 12 | 36 | 94 | 2 | 6 | 4 | 1 | 3 | 7 |
| 4% | 12 | 36 | 94 | 2 | 6 | 4 | 1 | 3 | 7 |
| 3% | 12 | 36 | 94 | 2 | 6 | 4 | 1 | 3 | 7 |
| 2% | 12 | 36 | 94 | 2 | 6 | 4 | 1 | 3 | 7 |
| 1% | 12 | 36 | 94 | 2 | 6 | 4 | 1 | 3 | 7 |
| 0% | 12 | 36 | 94 | 2 | 6 | 4 | 1 | 3 | 7 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Passage Days Lost | | | | | | | | |
|---|---|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | - | - | - | - | - | - | - | - | - |
| 9% | - | - | - | - | - | - | - | - | - |
| 8% | - | - | - | - | - | - | - | - | - |
| 7% | - | - | - | - | - | - | - | - | - |
| 6% | - | - | - | - | - | - | - | - | - |
| 5% | - | - | - | - | - | - | - | - | - |
| 4% | - | - | - | - | - | - | - | - | - |
| 3% | - | - | - | - | - | - | - | - | - |
| 2% | - | - | - | - | - | - | - | - | - |
| 1% | - | - | - | - | - | - | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of passage days

Table E-64 Unimpaired and Impaired Spawning Days in November, Scenario A4

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 8 | 3 | 6 | 1 | 1 | 1 | 1 | 1 | 1 |

| Maximum Cumulative Volume Depletion (%) | Impaired Spawning Days | | | | | | | | |
|---|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 8 | 3 | 6 | 1 | 1 | 1 | 1 | 1 | 1 |
| 9% | 8 | 3 | 6 | 1 | 1 | 1 | 1 | 1 | 1 |
| 8% | 8 | 3 | 6 | 1 | 1 | 1 | 1 | 1 | 1 |
| 7% | 8 | 3 | 6 | 1 | 1 | 1 | 1 | 1 | 1 |
| 6% | 8 | 3 | 6 | 1 | 1 | 1 | 1 | 1 | 1 |
| 5% | 8 | 3 | 6 | 1 | 1 | 1 | 1 | 1 | 1 |
| 4% | 8 | 3 | 6 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3% | 8 | 3 | 6 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2% | 8 | 3 | 6 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1% | 8 | 3 | 6 | 1 | 1 | 1 | 1 | 1 | 1 |
| 0% | 8 | 3 | 6 | 1 | 1 | 1 | 1 | 1 | 1 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Spawning Days Lost | | | | | | | | |
|---|--|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | - | - | - | - | - | - | - | - | - |
| 9% | - | - | - | - | - | - | - | - | - |
| 8% | - | - | - | - | - | - | - | - | - |
| 7% | - | - | - | - | - | - | - | - | - |
| 6% | - | - | - | - | - | - | - | - | - |
| 5% | - | - | - | - | - | - | - | - | - |
| 4% | - | - | - | - | - | - | - | - | - |
| 3% | - | - | - | - | - | - | - | - | - |
| 2% | - | - | - | - | - | - | - | - | - |
| 1% | - | - | - | - | - | - | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of spawning days

Table E-65 Unimpaired and Impaired Passage Days in December, Scenario A4

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 112 | 162 | 217 | 46 | 75 | 66 | 33 | 99 | 84 |

| Maximum Cumulative Volume Depletion (%) | Impaired Passage Days | | | | | | | | |
|---|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 103 | 162 | 217 | 40 | 67 | 62 | 31 | 99 | 78 |
| 9% | 103 | 162 | 217 | 40 | 67 | 63 | 31 | 99 | 78 |
| 8% | 103 | 162 | 217 | 41 | 68 | 64 | 31 | 99 | 78 |
| 7% | 104 | 162 | 217 | 43 | 70 | 64 | 31 | 99 | 79 |
| 6% | 104 | 162 | 217 | 43 | 70 | 65 | 31 | 99 | 80 |
| 5% | 104 | 162 | 217 | 44 | 72 | 65 | 31 | 99 | 80 |
| 4% | 104 | 162 | 217 | 44 | 72 | 65 | 31 | 99 | 80 |
| 3% | 105 | 162 | 217 | 45 | 72 | 65 | 31 | 99 | 80 |
| 2% | 108 | 162 | 217 | 45 | 73 | 66 | 31 | 99 | 80 |
| 1% | 110 | 162 | 217 | 45 | 74 | 66 | 32 | 99 | 83 |
| 0% | 112 | 162 | 217 | 46 | 75 | 66 | 33 | 99 | 84 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Passage Days Lost | | | | | | | | |
|---|---|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 8% | - | - | 13% | 11% | 6% | 6% | - | 7% |
| 9% | 8% | - | - | 13% | 11% | 5% | 6% | - | 7% |
| 8% | 8% | - | - | 11% | 9% | 3% | 6% | - | 7% |
| 7% | 7% | - | - | 7% | 7% | 3% | 6% | - | 6% |
| 6% | 7% | - | - | 7% | 7% | 2% | 6% | - | 5% |
| 5% | 7% | - | - | 4% | 4% | 2% | 6% | - | 5% |
| 4% | 7% | - | - | 4% | 4% | 2% | 6% | - | 5% |
| 3% | 6% | - | - | 2% | 4% | 2% | 6% | - | 5% |
| 2% | 4% | - | - | 2% | 3% | - | 6% | - | 5% |
| 1% | 2% | - | - | 2% | 1% | - | 3% | - | 1% |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of passage days

Table E-66 Unimpaired and Impaired Spawning Days in December, Scenario A4

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 101 | 85 | 93 | 34 | 10 | 35 | 30 | 75 | 69 |

| Maximum Cumulative Volume Depletion (%) | Impaired Spawning Days | | | | | | | | |
|---|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 93 | 77 | 89 | 30 | 10 | 34 | 30 | 75 | 62 |
| 9% | 93 | 77 | 89 | 30 | 10 | 34 | 30 | 75 | 62 |
| 8% | 94 | 78 | 90 | 30 | 10 | 35 | 30 | 75 | 62 |
| 7% | 94 | 78 | 90 | 32 | 10 | 35 | 30 | 75 | 62 |
| 6% | 95 | 78 | 90 | 32 | 10 | 35 | 30 | 75 | 64 |
| 5% | 96 | 81 | 91 | 32 | 10 | 35 | 30 | 75 | 66 |
| 4% | 96 | 82 | 92 | 33 | 10 | 35 | 30 | 75 | 67 |
| 3% | 97 | 82 | 92 | 33 | 10 | 35 | 30 | 75 | 67 |
| 2% | 98 | 82 | 92 | 33 | 10 | 35 | 30 | 75 | 67 |
| 1% | 100 | 83 | 93 | 34 | 10 | 35 | 30 | 75 | 67 |
| 0% | 101 | 85 | 93 | 34 | 10 | 35 | 30 | 75 | 69 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Spawning Days Lost | | | | | | | | |
|---|--|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 8% | 9% | 4% | 12% | - | 3% | - | - | 10% |
| 9% | 8% | 9% | 4% | 12% | - | 3% | - | - | 10% |
| 8% | 7% | 8% | 3% | 12% | - | - | - | - | 10% |
| 7% | 7% | 8% | 3% | 6% | - | - | - | - | 10% |
| 6% | 6% | 8% | 3% | 6% | - | - | - | - | 7% |
| 5% | 5% | 5% | 2% | 6% | - | - | - | - | 4% |
| 4% | 5% | 4% | 1% | 3% | - | - | - | - | 3% |
| 3% | 4% | 4% | 1% | 3% | - | - | - | - | 3% |
| 2% | 3% | 4% | 1% | 3% | - | - | - | - | 3% |
| 1% | 1% | 2% | - | - | - | - | - | - | 3% |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of spawning days

Table E-67 Unimpaired and Impaired Passage Days in January, Scenario A4

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 104 | 187 | 241 | 53 | 105 | 86 | 25 | 165 | 102 |

| Maximum Cumulative Volume Depletion (%) | Impaired Passage Days | | | | | | | | |
|---|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 96 | 187 | 241 | 48 | 99 | 83 | 23 | 165 | 94 |
| 9% | 97 | 187 | 241 | 48 | 100 | 84 | 23 | 165 | 94 |
| 8% | 97 | 187 | 241 | 50 | 103 | 84 | 24 | 165 | 96 |
| 7% | 98 | 187 | 241 | 50 | 103 | 84 | 25 | 165 | 99 |
| 6% | 99 | 187 | 241 | 50 | 103 | 84 | 25 | 165 | 100 |
| 5% | 101 | 187 | 241 | 50 | 104 | 85 | 25 | 165 | 100 |
| 4% | 101 | 187 | 241 | 51 | 105 | 85 | 25 | 165 | 102 |
| 3% | 102 | 187 | 241 | 51 | 105 | 86 | 25 | 165 | 102 |
| 2% | 102 | 187 | 241 | 52 | 105 | 86 | 25 | 165 | 102 |
| 1% | 103 | 187 | 241 | 52 | 105 | 86 | 25 | 165 | 102 |
| 0% | 104 | 187 | 241 | 53 | 105 | 86 | 25 | 165 | 102 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Passage Days Lost | | | | | | | | |
|---|---|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 8% | - | - | 9% | 6% | 3% | 8% | - | 8% |
| 9% | 7% | - | - | 9% | 5% | 2% | 8% | - | 8% |
| 8% | 7% | - | - | 6% | 2% | 2% | 4% | - | 6% |
| 7% | 6% | - | - | 6% | 2% | 2% | - | - | 3% |
| 6% | 5% | - | - | 6% | 2% | 2% | - | - | 2% |
| 5% | 3% | - | - | 6% | 1% | 1% | - | - | 2% |
| 4% | 3% | - | - | 4% | - | 1% | - | - | - |
| 3% | 2% | - | - | 4% | - | - | - | - | - |
| 2% | 2% | - | - | 2% | - | - | - | - | - |
| 1% | 1% | - | - | 2% | - | - | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of passage days

Table E-68 Unimpaired and Impaired Spawning Days in January, Scenario A4

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 87 | 68 | 73 | 29 | 6 | 30 | 22 | 136 | 74 |

| Maximum Cumulative Volume Depletion (%) | Impaired Spawning Days | | | | | | | | |
|---|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 79 | 63 | 72 | 27 | 6 | 28 | 20 | 136 | 70 |
| 9% | 80 | 64 | 72 | 27 | 6 | 28 | 20 | 136 | 70 |
| 8% | 80 | 65 | 72 | 27 | 6 | 29 | 20 | 136 | 71 |
| 7% | 80 | 66 | 73 | 27 | 6 | 29 | 20 | 136 | 72 |
| 6% | 80 | 66 | 73 | 27 | 6 | 29 | 21 | 136 | 73 |
| 5% | 84 | 67 | 73 | 27 | 6 | 29 | 22 | 136 | 73 |
| 4% | 84 | 68 | 73 | 27 | 6 | 29 | 22 | 136 | 73 |
| 3% | 84 | 68 | 73 | 27 | 6 | 29 | 22 | 136 | 74 |
| 2% | 84 | 68 | 73 | 27 | 6 | 29 | 22 | 136 | 74 |
| 1% | 86 | 68 | 73 | 28 | 6 | 29 | 22 | 136 | 74 |
| 0% | 87 | 68 | 73 | 29 | 6 | 30 | 22 | 136 | 74 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Spawning Days Lost | | | | | | | | |
|---|--|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 9% | 7% | 1% | 7% | - | 7% | 9% | - | 5% |
| 9% | 8% | 6% | 1% | 7% | - | 7% | 9% | - | 5% |
| 8% | 8% | 4% | 1% | 7% | - | 3% | 9% | - | 4% |
| 7% | 8% | 3% | - | 7% | - | 3% | 9% | - | 3% |
| 6% | 8% | 3% | - | 7% | - | 3% | 5% | - | 1% |
| 5% | 3% | 1% | - | 7% | - | 3% | - | - | 1% |
| 4% | 3% | - | - | 7% | - | 3% | - | - | 1% |
| 3% | 3% | - | - | 7% | - | 3% | - | - | - |
| 2% | 3% | - | - | 7% | - | 3% | - | - | - |
| 1% | 1% | - | - | 3% | - | 3% | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of spawning days

Table E-69 Unimpaired and Impaired Passage Days in February, Scenario A4

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 105 | 176 | 262 | 43 | 112 | 82 | 31 | 178 | 119 |

| Maximum Cumulative Volume Depletion (%) | Impaired Passage Days | | | | | | | | |
|---|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 102 | 175 | 262 | 42 | 105 | 80 | 29 | 178 | 117 |
| 9% | 103 | 175 | 262 | 42 | 106 | 80 | 29 | 178 | 117 |
| 8% | 103 | 175 | 262 | 42 | 109 | 81 | 30 | 178 | 117 |
| 7% | 103 | 175 | 262 | 43 | 109 | 82 | 30 | 178 | 118 |
| 6% | 103 | 176 | 262 | 43 | 110 | 82 | 30 | 178 | 118 |
| 5% | 104 | 176 | 262 | 43 | 110 | 82 | 30 | 178 | 118 |
| 4% | 105 | 176 | 262 | 43 | 111 | 82 | 30 | 178 | 119 |
| 3% | 105 | 176 | 262 | 43 | 111 | 82 | 30 | 178 | 119 |
| 2% | 105 | 176 | 262 | 43 | 111 | 82 | 30 | 178 | 119 |
| 1% | 105 | 176 | 262 | 43 | 111 | 82 | 31 | 178 | 119 |
| 0% | 105 | 176 | 262 | 43 | 112 | 82 | 31 | 178 | 119 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Passage Days Lost | | | | | | | | |
|---|---|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 3% | 1% | - | 2% | 6% | 2% | 6% | - | 2% |
| 9% | 2% | 1% | - | 2% | 5% | 2% | 6% | - | 2% |
| 8% | 2% | 1% | - | 2% | 3% | 1% | 3% | - | 2% |
| 7% | 2% | 1% | - | - | 3% | - | 3% | - | 1% |
| 6% | 2% | - | - | - | 2% | - | 3% | - | 1% |
| 5% | 1% | - | - | - | 2% | - | 3% | - | 1% |
| 4% | - | - | - | - | 1% | - | 3% | - | - |
| 3% | - | - | - | - | 1% | - | 3% | - | - |
| 2% | - | - | - | - | 1% | - | 3% | - | - |
| 1% | - | - | - | - | 1% | - | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of passage days

Table E-70 Unimpaired and Impaired Spawning Days in February, Scenario A4

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 93 | 71 | 80 | 17 | 5 | 24 | 25 | 138 | 79 |

| Maximum Cumulative Volume Depletion (%) | Impaired Spawning Days | | | | | | | | |
|---|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 91 | 69 | 80 | 17 | 5 | 24 | 25 | 138 | 78 |
| 9% | 92 | 69 | 80 | 17 | 5 | 24 | 25 | 138 | 79 |
| 8% | 92 | 69 | 80 | 17 | 5 | 24 | 25 | 138 | 79 |
| 7% | 92 | 70 | 80 | 17 | 5 | 24 | 25 | 138 | 79 |
| 6% | 92 | 70 | 80 | 17 | 5 | 24 | 25 | 138 | 79 |
| 5% | 93 | 70 | 80 | 17 | 5 | 24 | 25 | 138 | 79 |
| 4% | 93 | 71 | 80 | 17 | 5 | 24 | 25 | 138 | 79 |
| 3% | 93 | 71 | 80 | 17 | 5 | 24 | 25 | 138 | 79 |
| 2% | 93 | 71 | 80 | 17 | 5 | 24 | 25 | 138 | 79 |
| 1% | 93 | 71 | 80 | 17 | 5 | 24 | 25 | 138 | 79 |
| 0% | 93 | 71 | 80 | 17 | 5 | 24 | 25 | 138 | 79 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Spawning Days Lost | | | | | | | | |
|---|--|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 2% | 3% | - | - | - | - | - | - | 1% |
| 9% | 1% | 3% | - | - | - | - | - | - | - |
| 8% | 1% | 3% | - | - | - | - | - | - | - |
| 7% | 1% | 1% | - | - | - | - | - | - | - |
| 6% | 1% | 1% | - | - | - | - | - | - | - |
| 5% | - | 1% | - | - | - | - | - | - | - |
| 4% | - | - | - | - | - | - | - | - | - |
| 3% | - | - | - | - | - | - | - | - | - |
| 2% | - | - | - | - | - | - | - | - | - |
| 1% | - | - | - | - | - | - | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of spawning days

Table E-71 Unimpaired and Impaired Passage Days in March, Scenario A4

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 120 | 200 | 283 | 52 | 118 | 97 | 36 | 167 | 115 |

| Maximum Cumulative Volume Depletion (%) | Impaired Passage Days | | | | | | | | |
|---|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 118 | 200 | 283 | 51 | 117 | 97 | 36 | 167 | 115 |
| 9% | 118 | 200 | 283 | 51 | 118 | 97 | 36 | 167 | 115 |
| 8% | 118 | 200 | 283 | 51 | 118 | 97 | 36 | 167 | 115 |
| 7% | 119 | 200 | 283 | 51 | 118 | 97 | 36 | 167 | 115 |
| 6% | 120 | 200 | 283 | 52 | 118 | 97 | 36 | 167 | 115 |
| 5% | 120 | 200 | 283 | 52 | 118 | 97 | 36 | 167 | 115 |
| 4% | 120 | 200 | 283 | 52 | 118 | 97 | 36 | 167 | 115 |
| 3% | 120 | 200 | 283 | 52 | 118 | 97 | 36 | 167 | 115 |
| 2% | 120 | 200 | 283 | 52 | 118 | 97 | 36 | 167 | 115 |
| 1% | 120 | 200 | 283 | 52 | 118 | 97 | 36 | 167 | 115 |
| 0% | 120 | 200 | 283 | 52 | 118 | 97 | 36 | 167 | 115 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Passage Days Lost | | | | | | | | |
|---|---|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 2% | - | - | 2% | 1% | - | - | - | - |
| 9% | 2% | - | - | 2% | - | - | - | - | - |
| 8% | 2% | - | - | 2% | - | - | - | - | - |
| 7% | 1% | - | - | 2% | - | - | - | - | - |
| 6% | - | - | - | - | - | - | - | - | - |
| 5% | - | - | - | - | - | - | - | - | - |
| 4% | - | - | - | - | - | - | - | - | - |
| 3% | - | - | - | - | - | - | - | - | - |
| 2% | - | - | - | - | - | - | - | - | - |
| 1% | - | - | - | - | - | - | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of passage days

Table E-72 Unimpaired and Impaired Spawning Days in March, Scenario A4

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 102 | 75 | 82 | 24 | 4 | 29 | 29 | 140 | 81 |

| Maximum Cumulative Volume Depletion (%) | Impaired Spawning Days | | | | | | | | |
|---|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 101 | 74 | 82 | 24 | 4 | 29 | 29 | 140 | 80 |
| 9% | 101 | 75 | 82 | 24 | 4 | 29 | 29 | 140 | 80 |
| 8% | 101 | 75 | 82 | 24 | 4 | 29 | 29 | 140 | 80 |
| 7% | 101 | 75 | 82 | 24 | 4 | 29 | 29 | 140 | 80 |
| 6% | 102 | 75 | 82 | 24 | 4 | 29 | 29 | 140 | 80 |
| 5% | 102 | 75 | 82 | 24 | 4 | 29 | 29 | 140 | 81 |
| 4% | 102 | 75 | 82 | 24 | 4 | 29 | 29 | 140 | 81 |
| 3% | 102 | 75 | 82 | 24 | 4 | 29 | 29 | 140 | 81 |
| 2% | 102 | 75 | 82 | 24 | 4 | 29 | 29 | 140 | 81 |
| 1% | 102 | 75 | 82 | 24 | 4 | 29 | 29 | 140 | 81 |
| 0% | 102 | 75 | 82 | 24 | 4 | 29 | 29 | 140 | 81 |

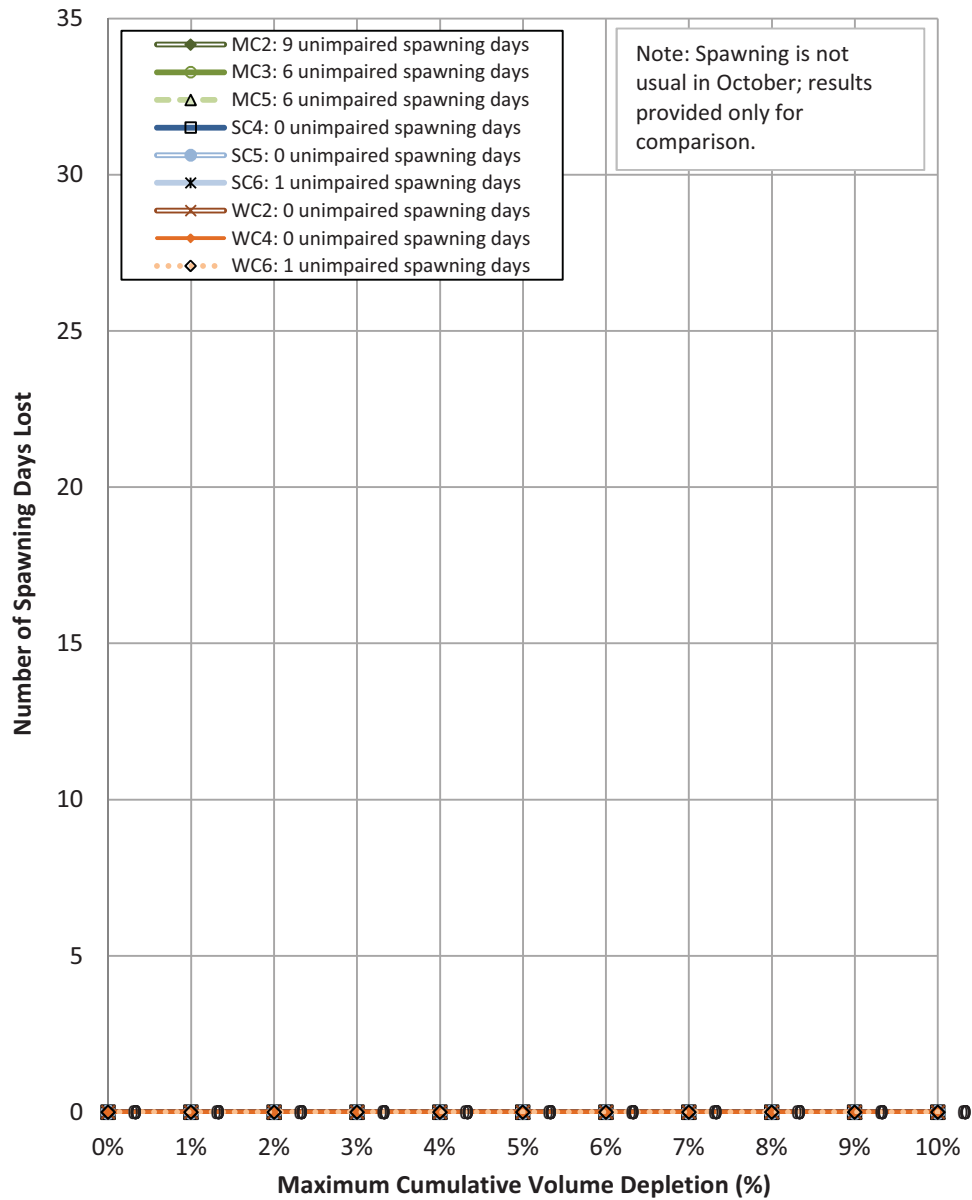
| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Spawning Days Lost | | | | | | | | |
|---|--|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 1% | 1% | - | - | - | - | - | - | 1% |
| 9% | 1% | - | - | - | - | - | - | - | 1% |
| 8% | 1% | - | - | - | - | - | - | - | 1% |
| 7% | 1% | - | - | - | - | - | - | - | 1% |
| 6% | - | - | - | - | - | - | - | - | 1% |
| 5% | - | - | - | - | - | - | - | - | - |
| 4% | - | - | - | - | - | - | - | - | - |
| 3% | - | - | - | - | - | - | - | - | - |
| 2% | - | - | - | - | - | - | - | - | - |
| 1% | - | - | - | - | - | - | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of spawning days

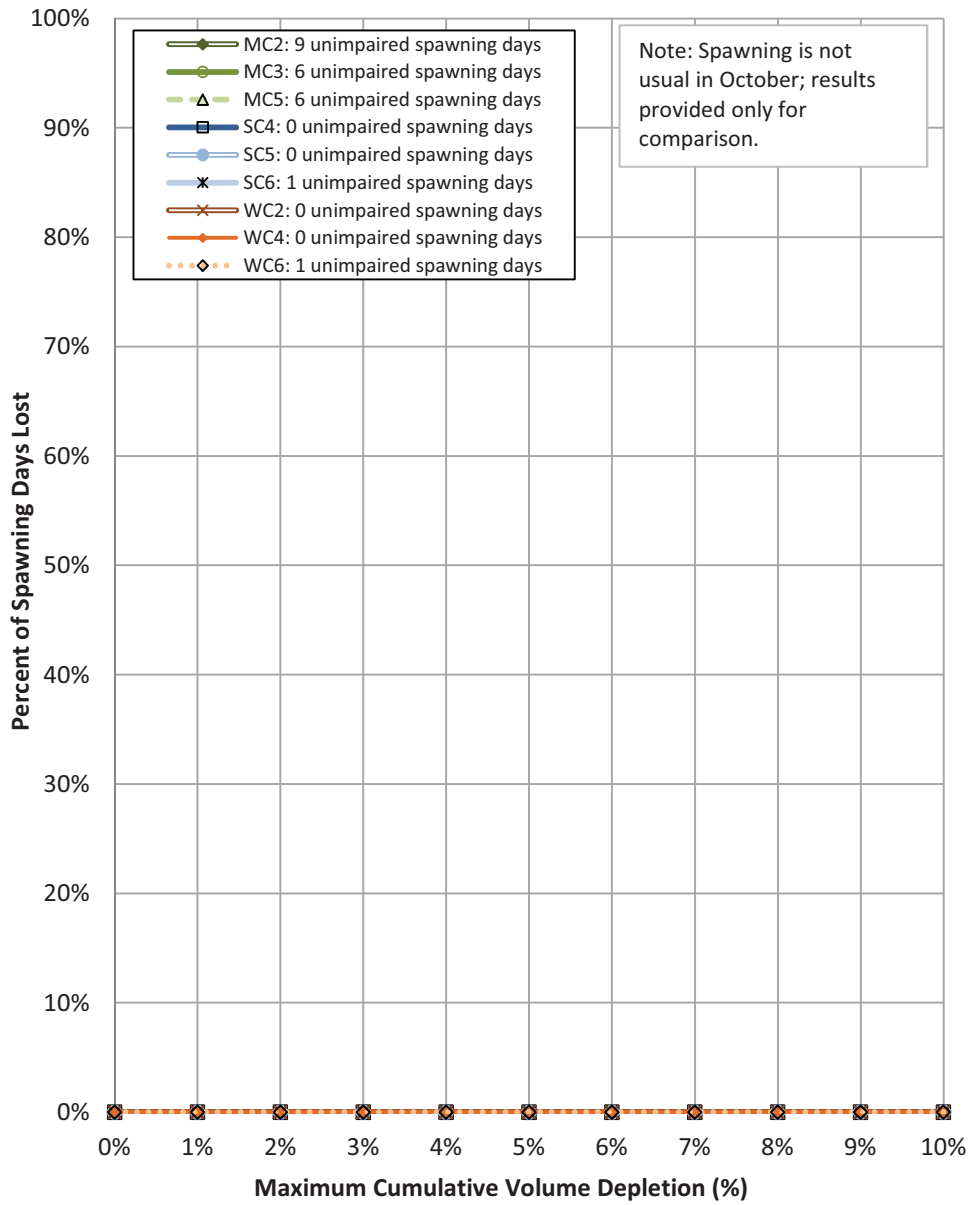
Number of Unimpaired Spawning Days Lost

Scenario A4, October



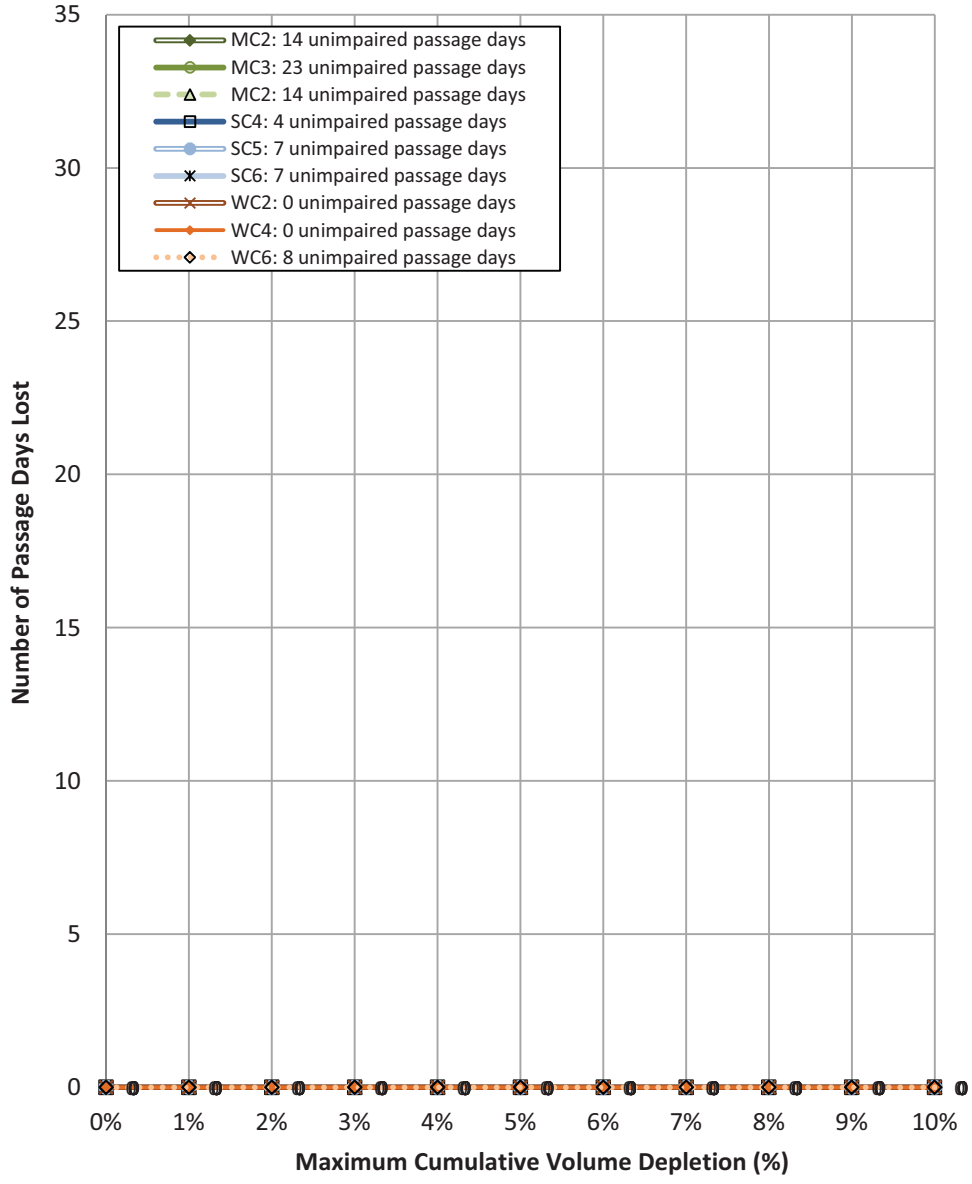
Percent of Unimpaired Spawning Days Lost

Scenario A4, October



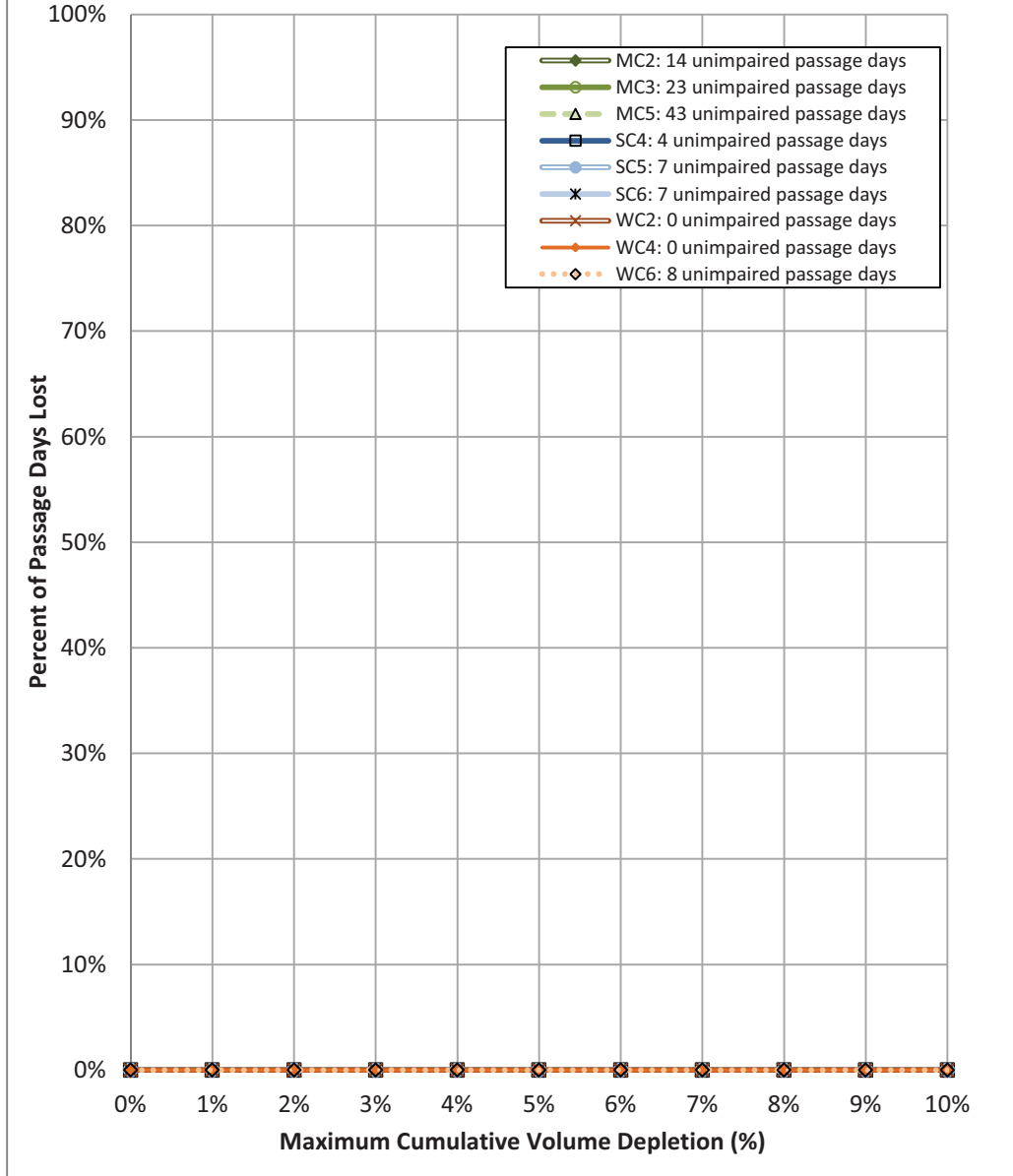
Number of Unimpaired Passage Days Lost

Scenario A4, October



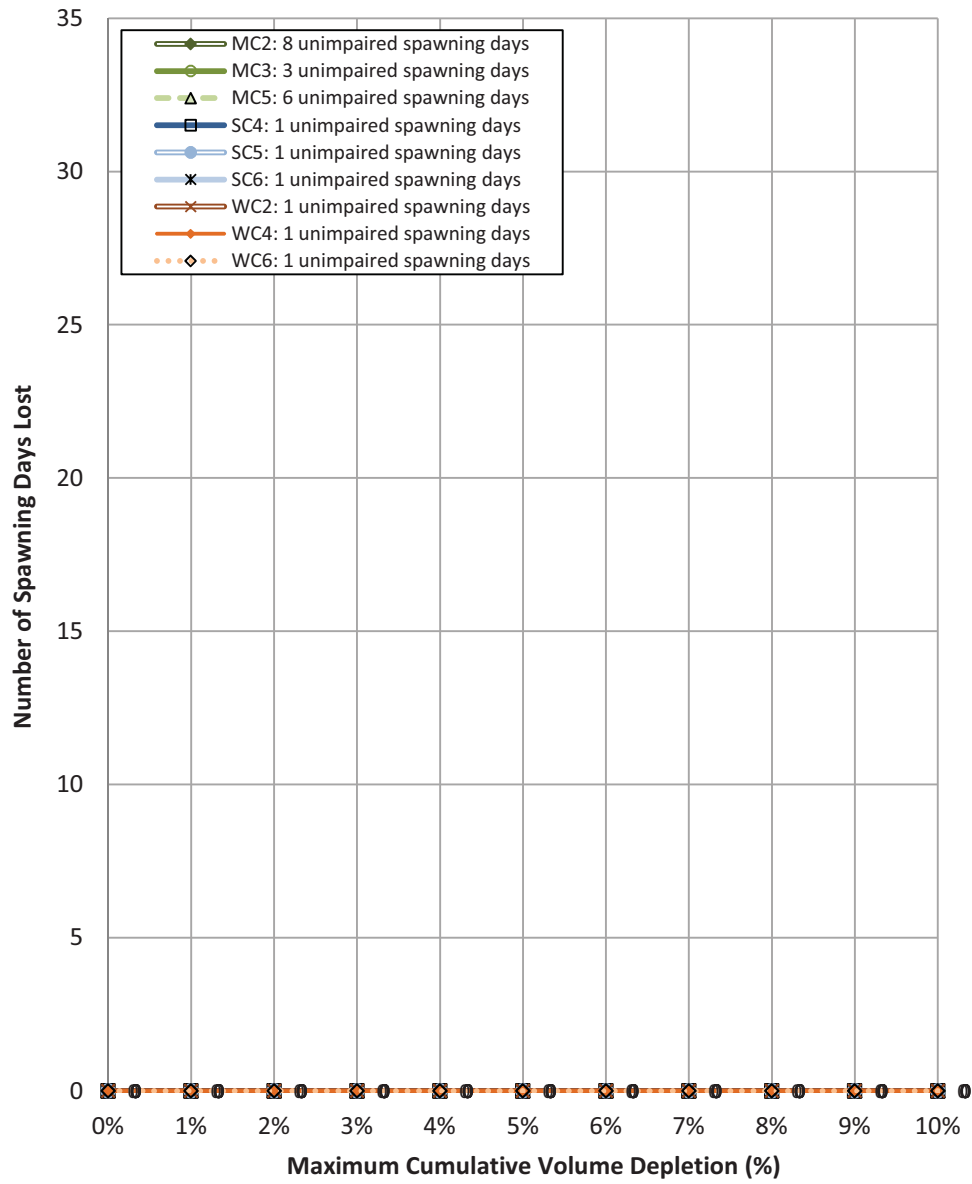
Percent of Unimpaired Passage Days Lost

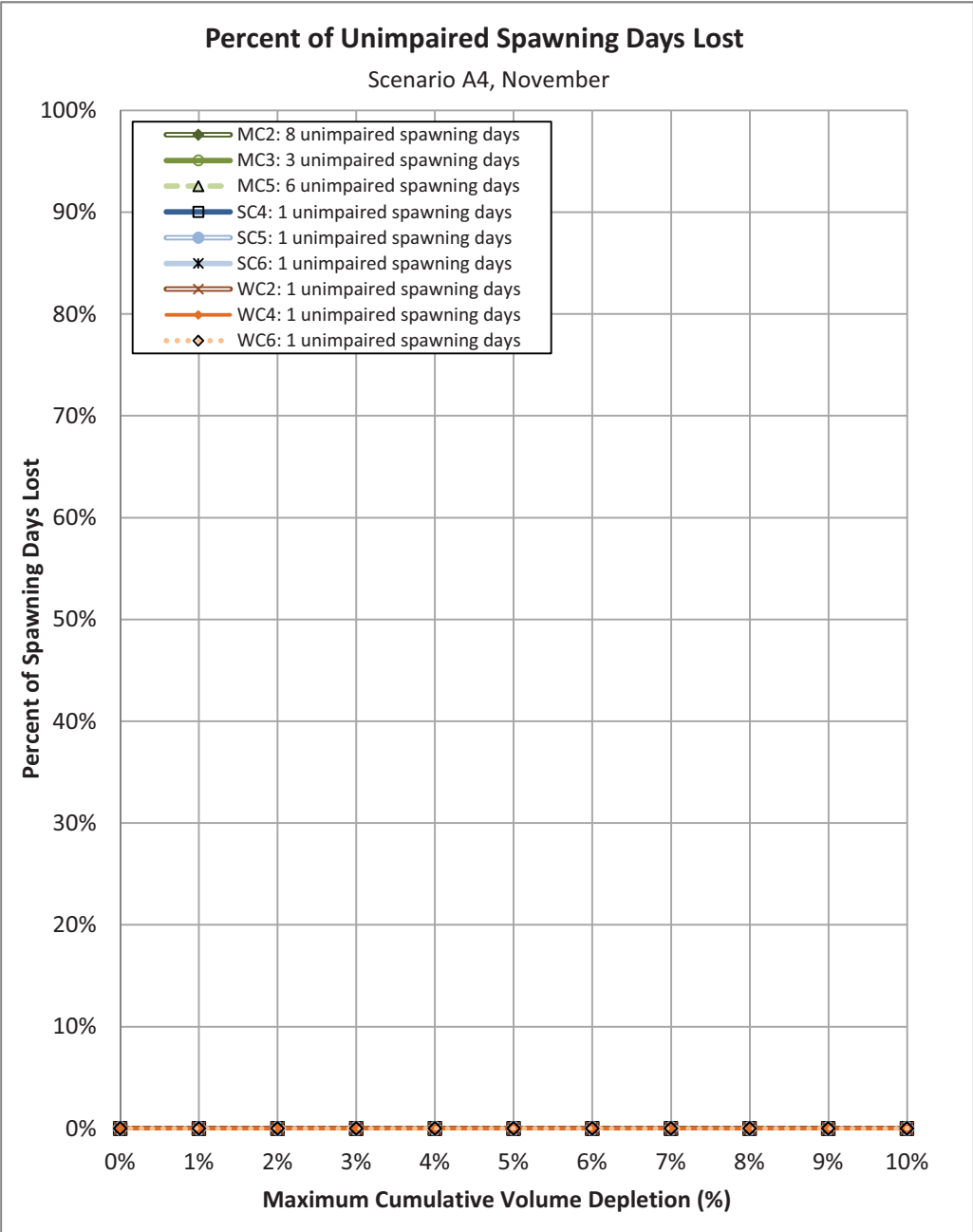
Scenario A4, October



Number of Unimpaired Spawning Days Lost

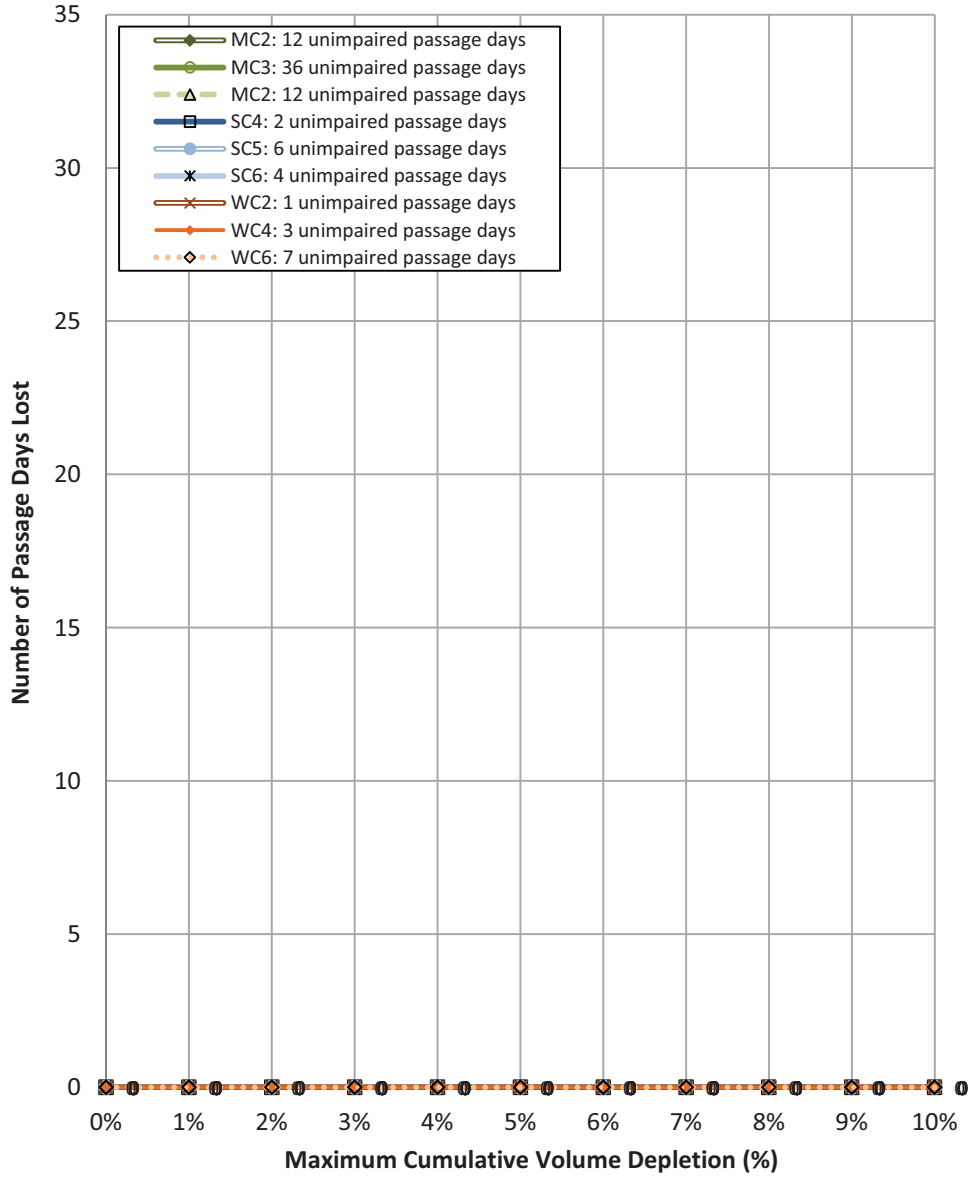
Scenario A4, November

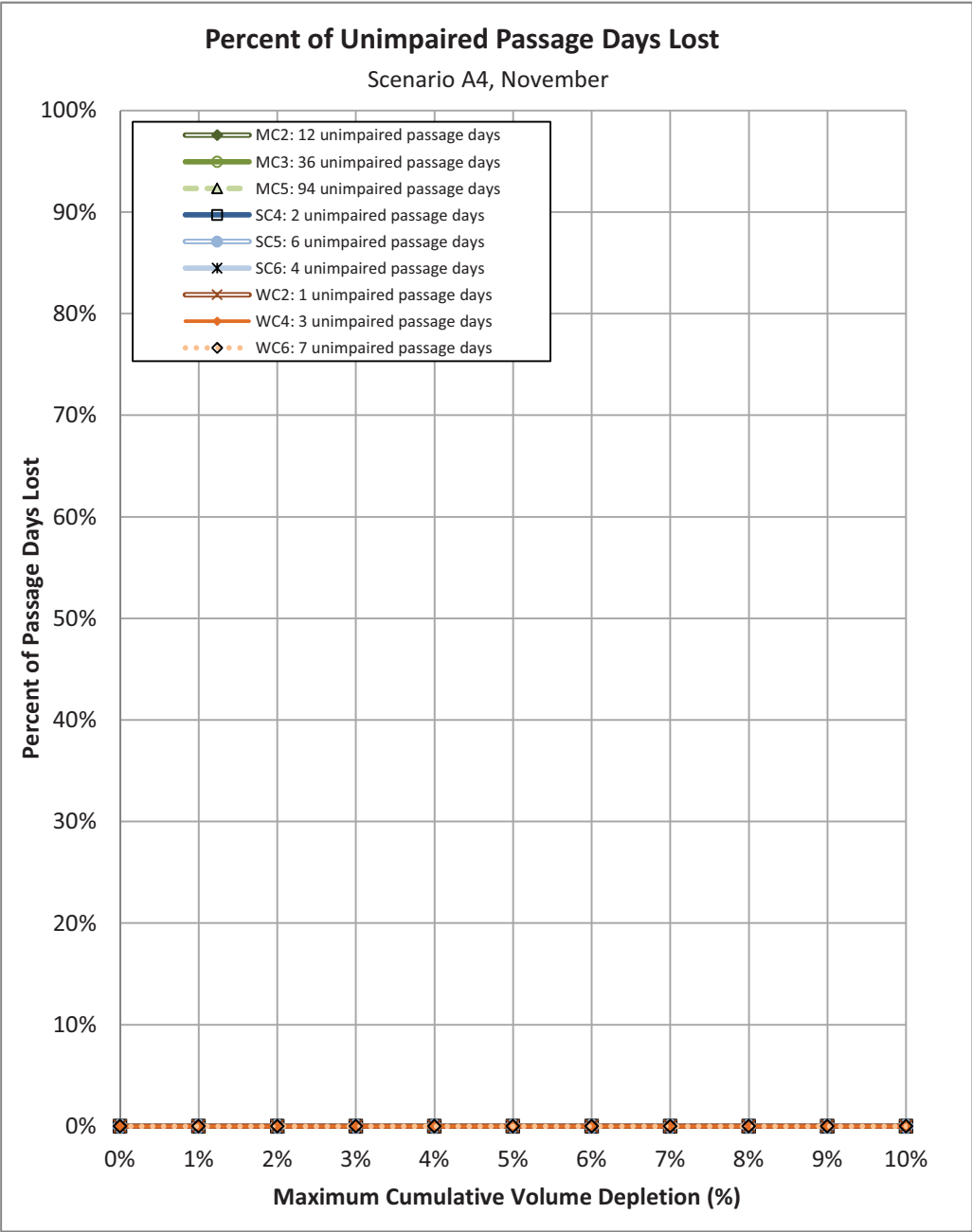




Number of Unimpaired Passage Days Lost

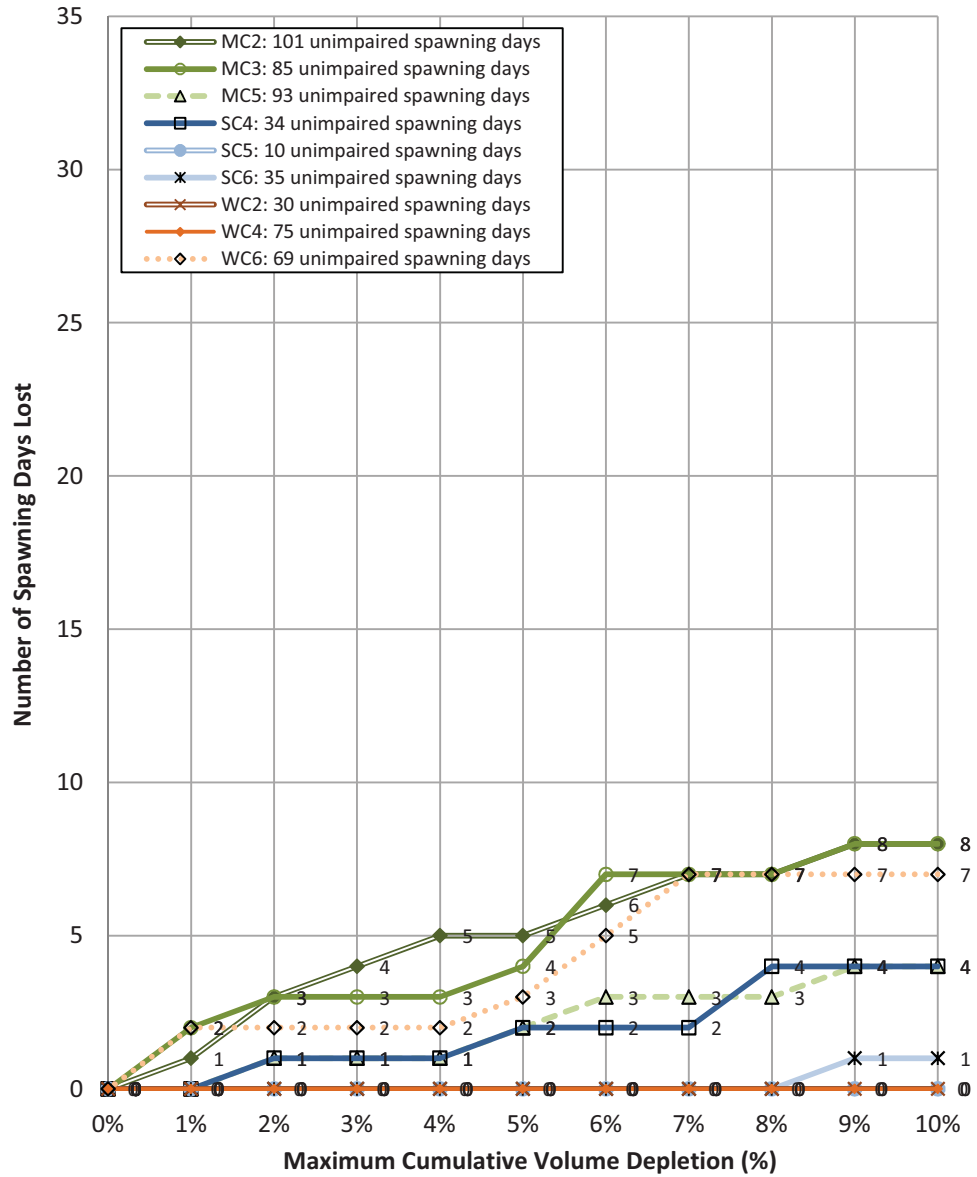
Scenario A4, November





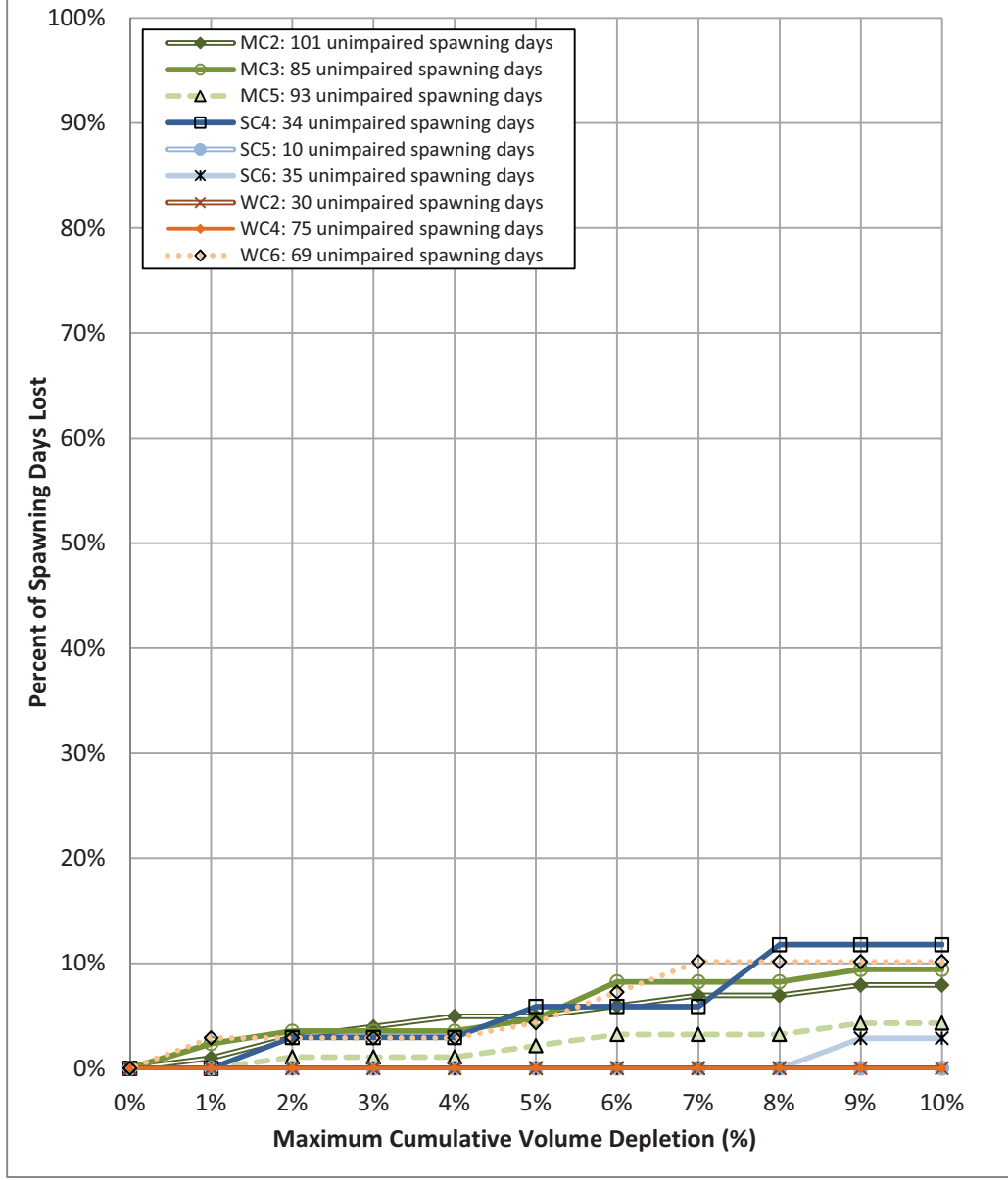
Number of Unimpaired Spawning Days Lost

Scenario A4, December



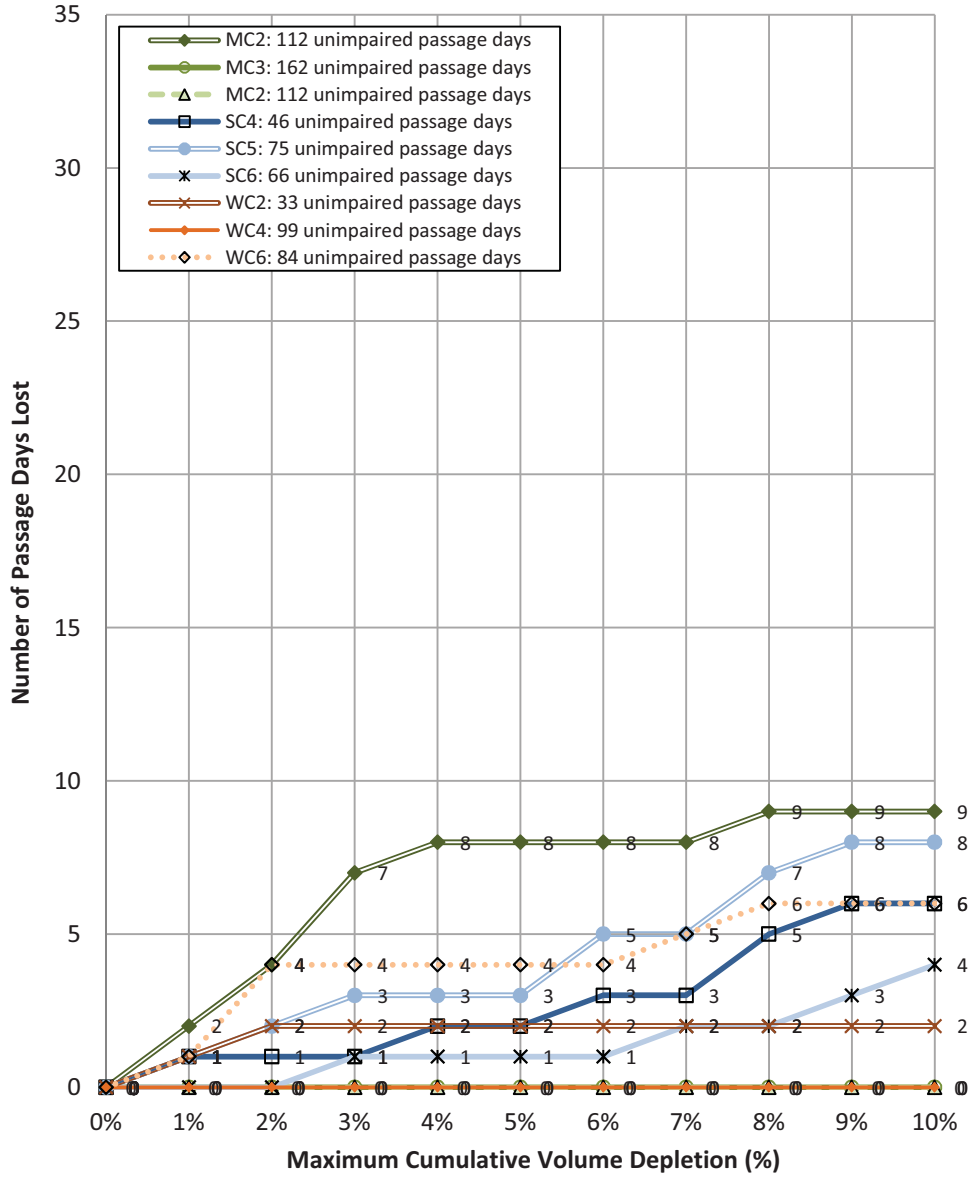
Percent of Unimpaired Spawning Days Lost

Scenario A4, December



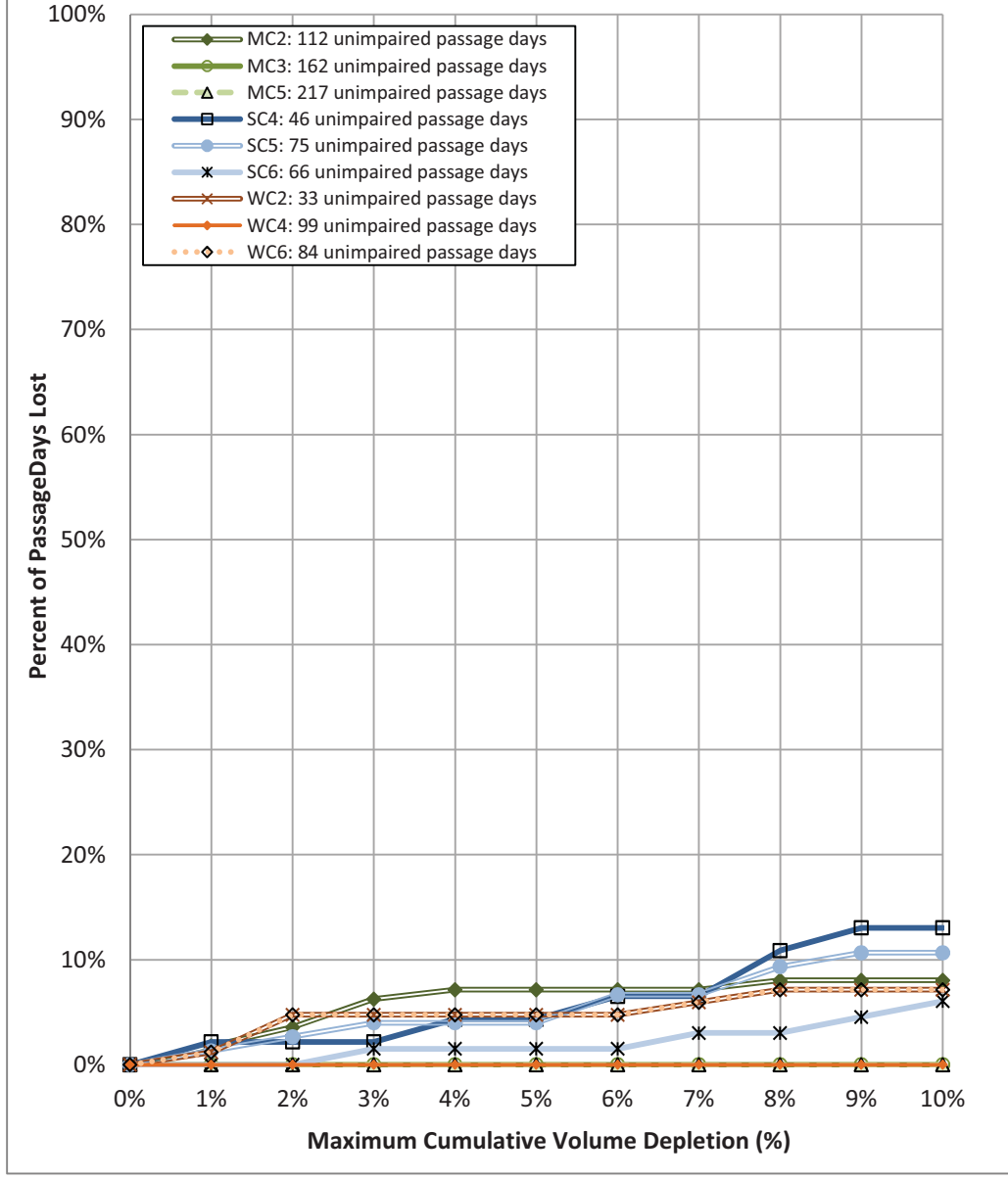
Number of Unimpaired Passage Days Lost

Scenario A4, December



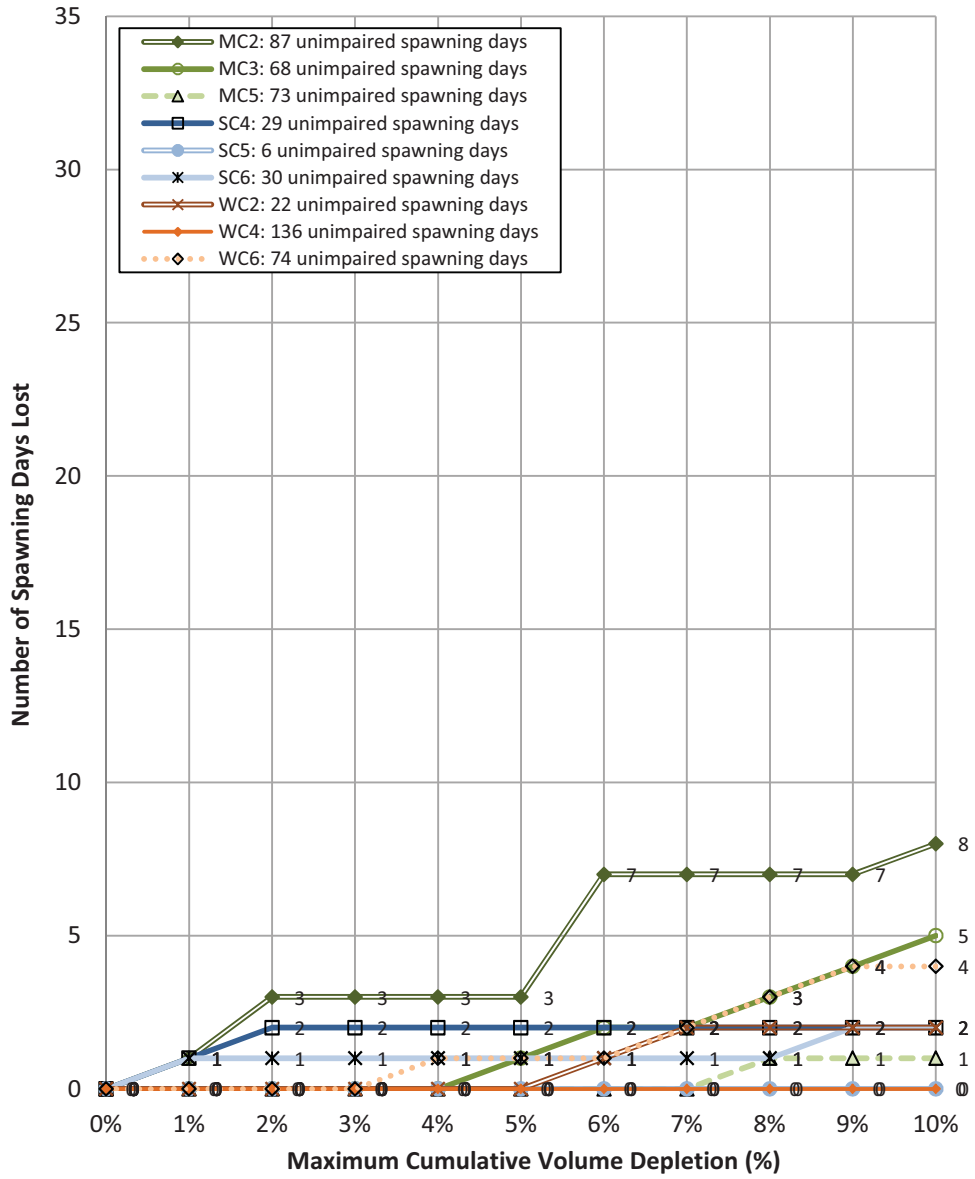
Percent of Unimpaired Passage Days Lost

Scenario A4, December



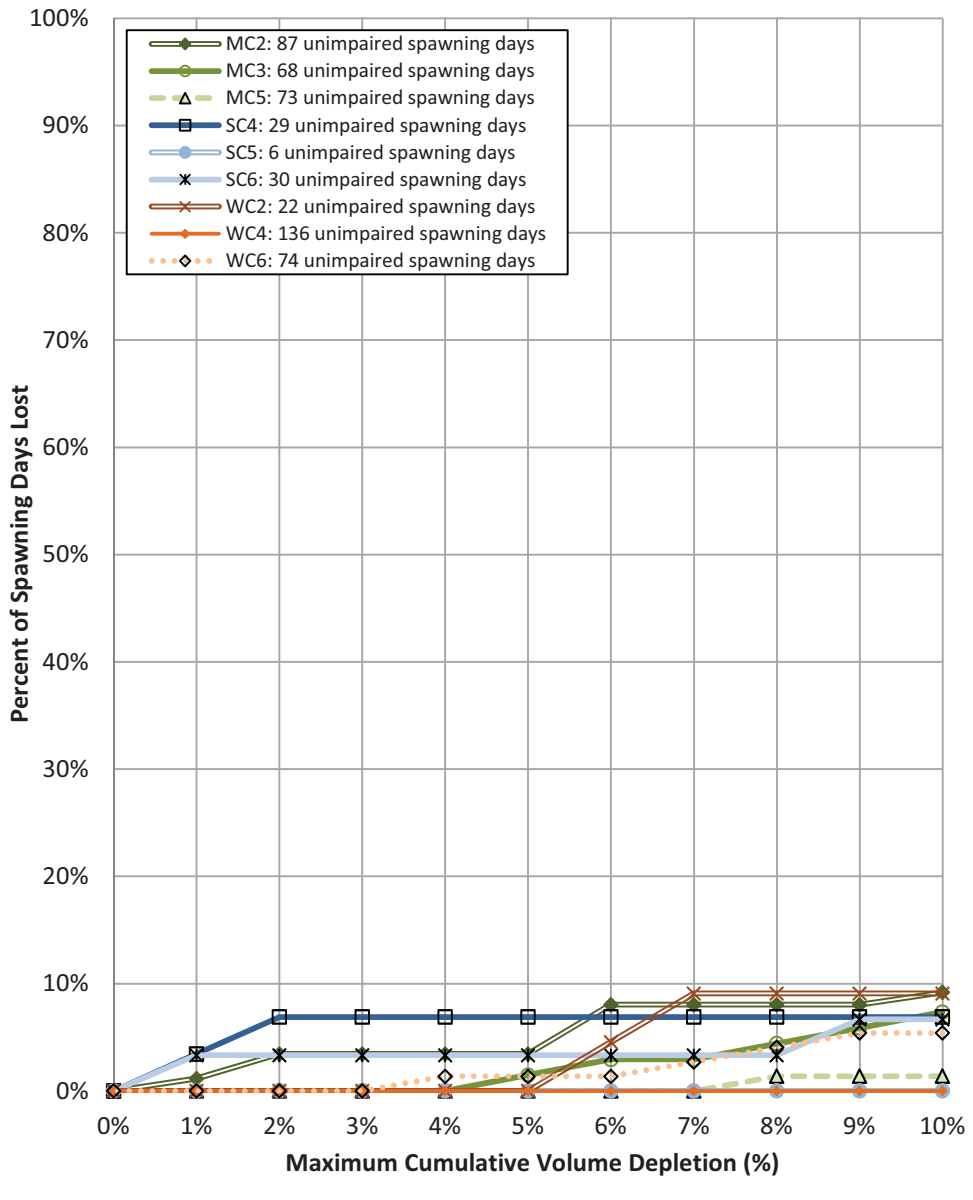
Number of Unimpaired Spawning Days Lost

Scenario A4, January



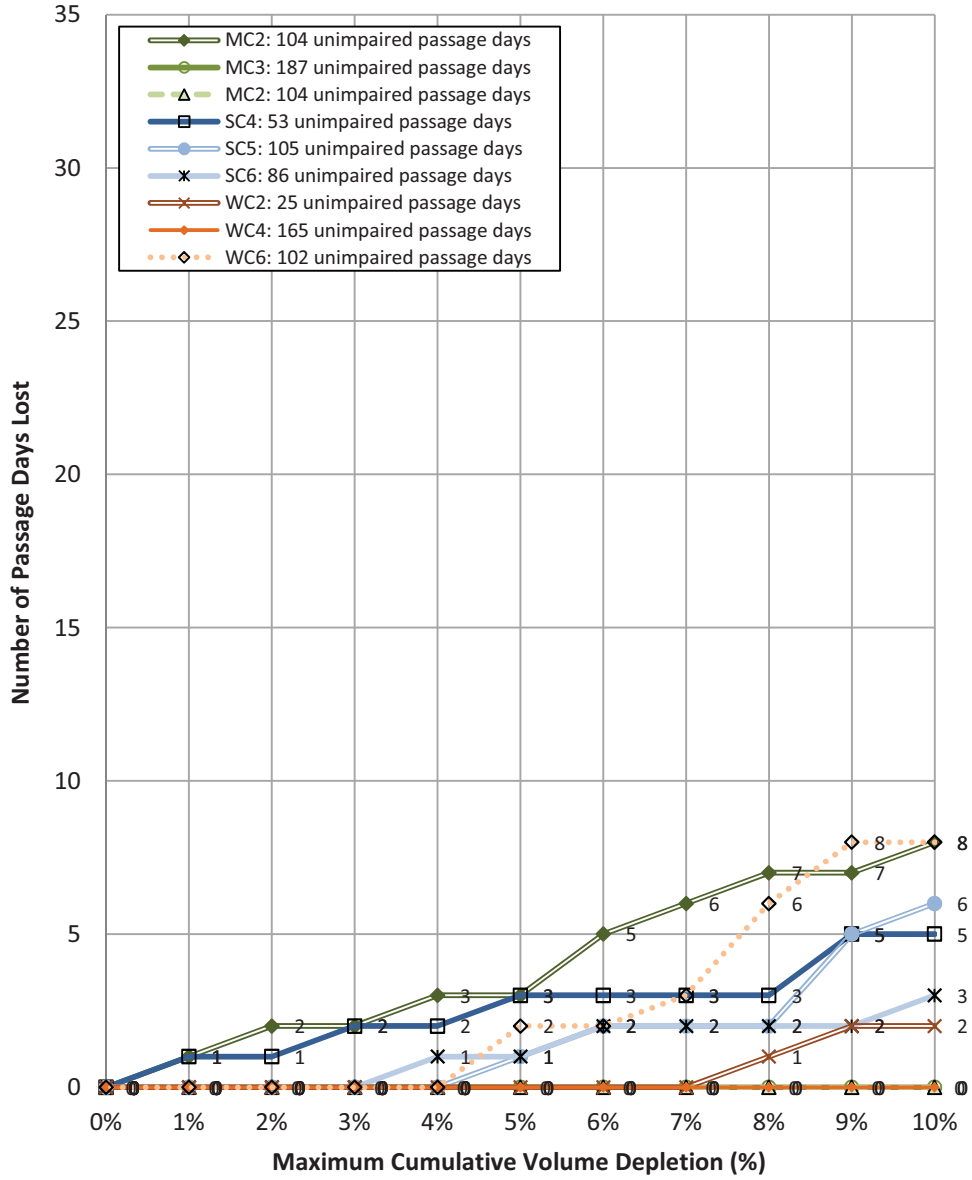
Percent of Unimpaired Spawning Days Lost

Scenario A4, January



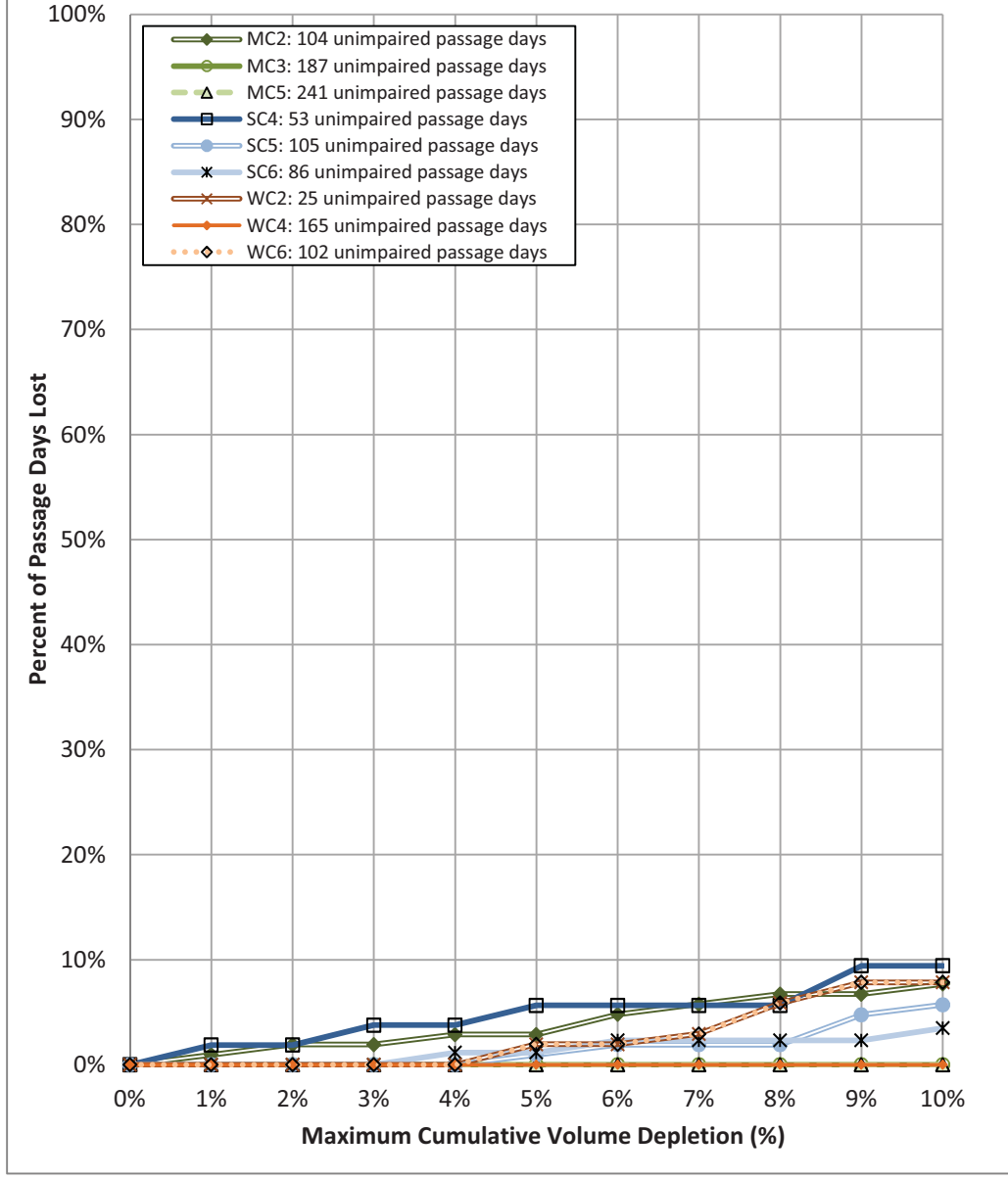
Number of Unimpaired Passage Days Lost

Scenario A4, January



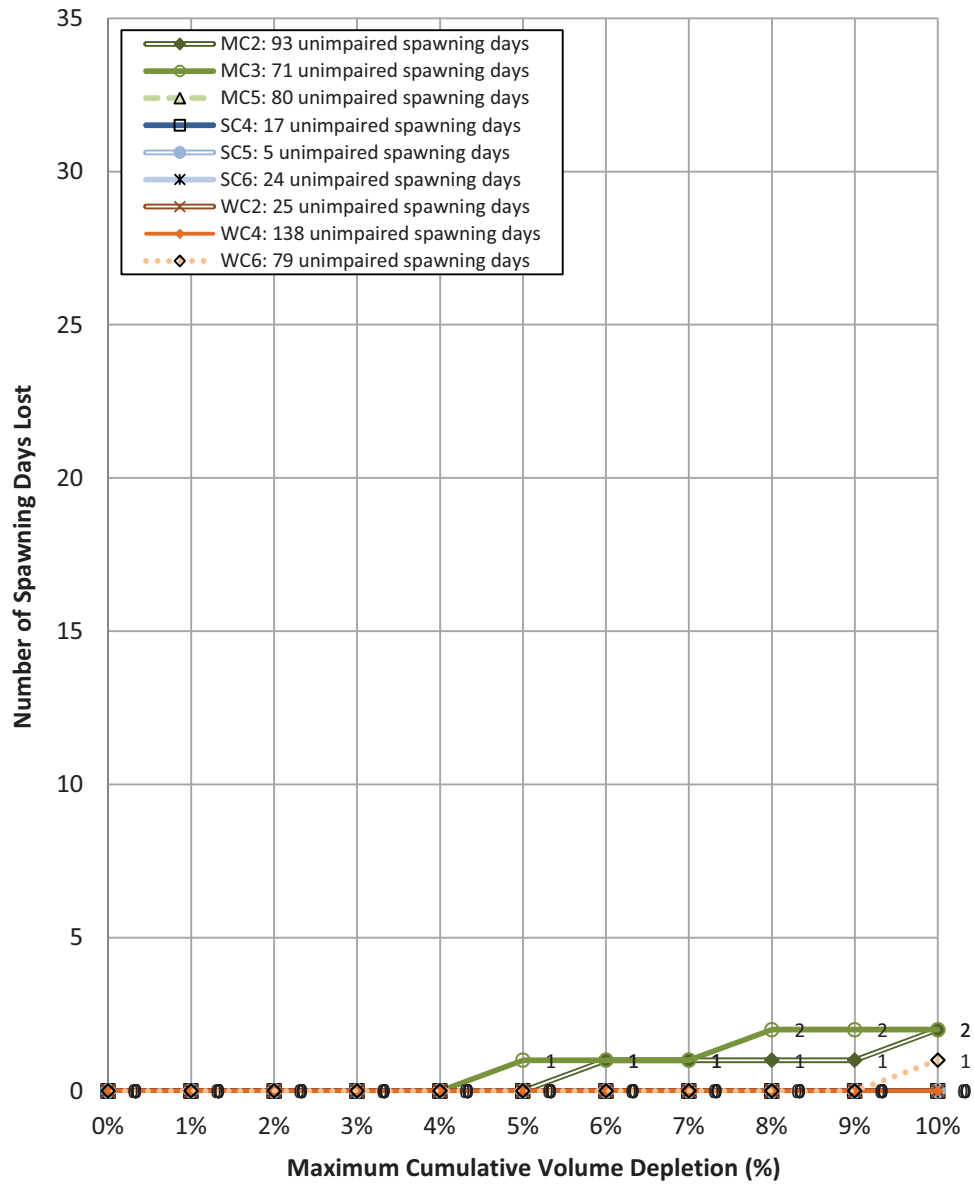
Percent of Unimpaired Passage Days Lost

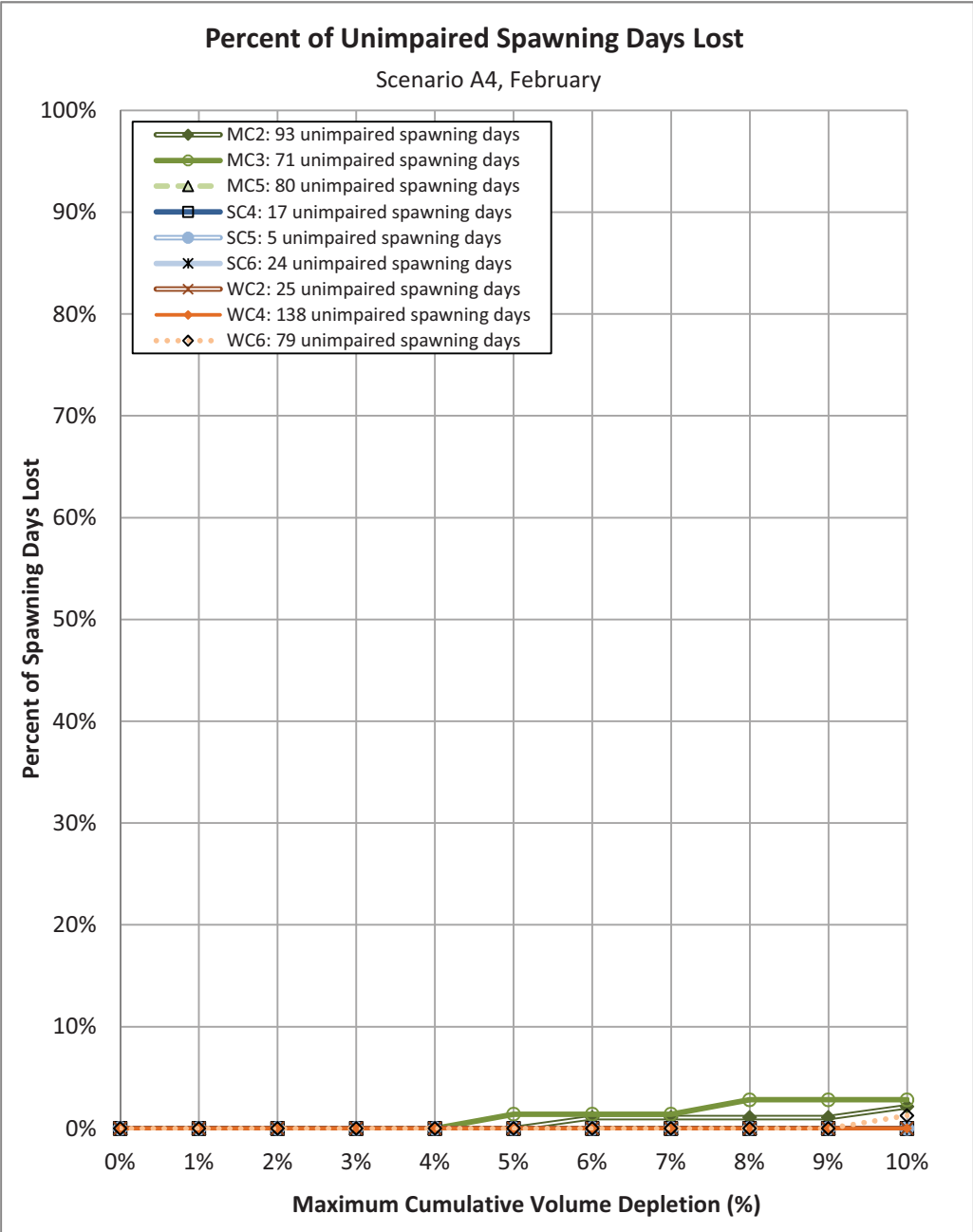
Scenario A4, January



Number of Unimpaired Spawning Days Lost

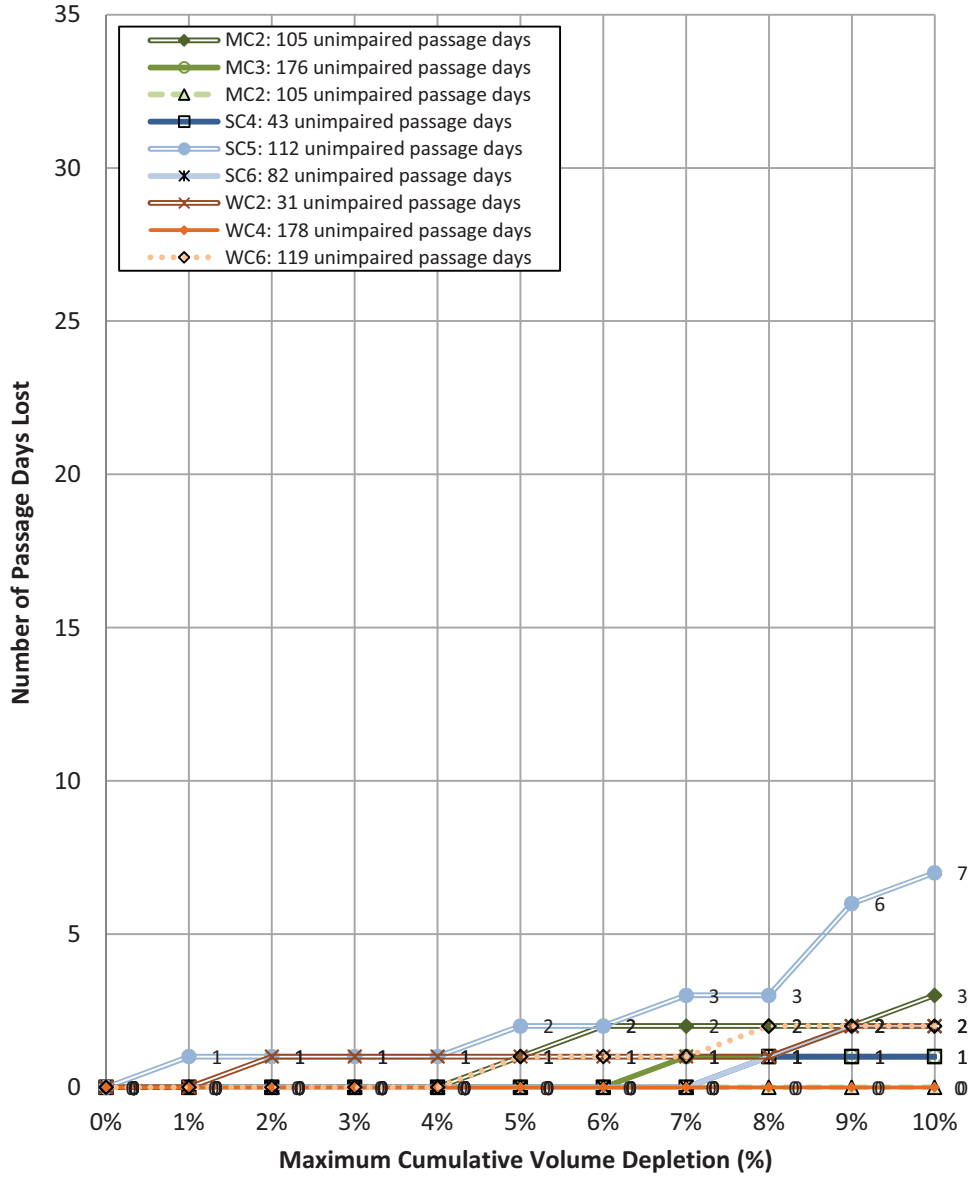
Scenario A4, February





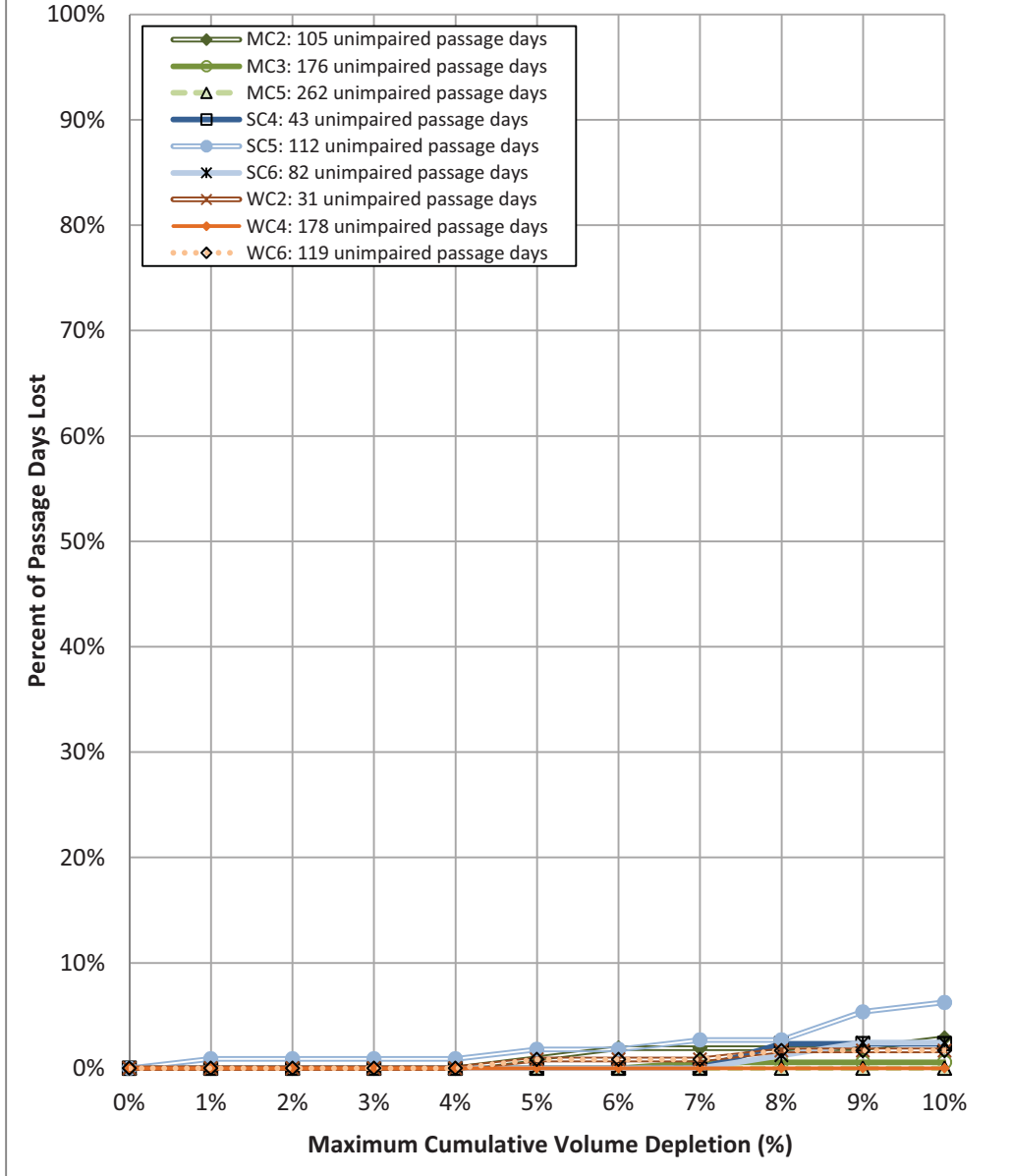
Number of Unimpaired Passage Days Lost

Scenario A4, February



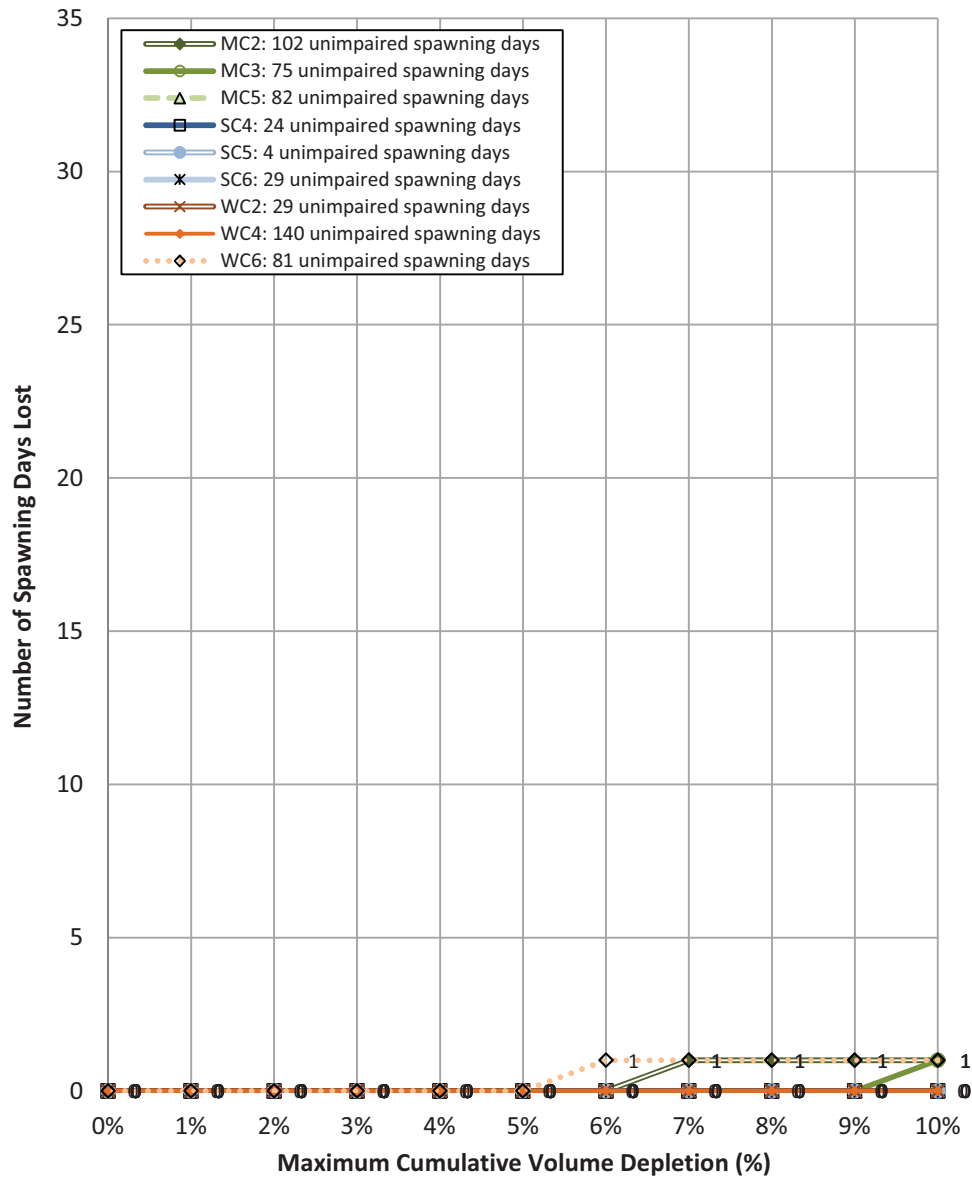
Percent of Unimpaired Passage Days Lost

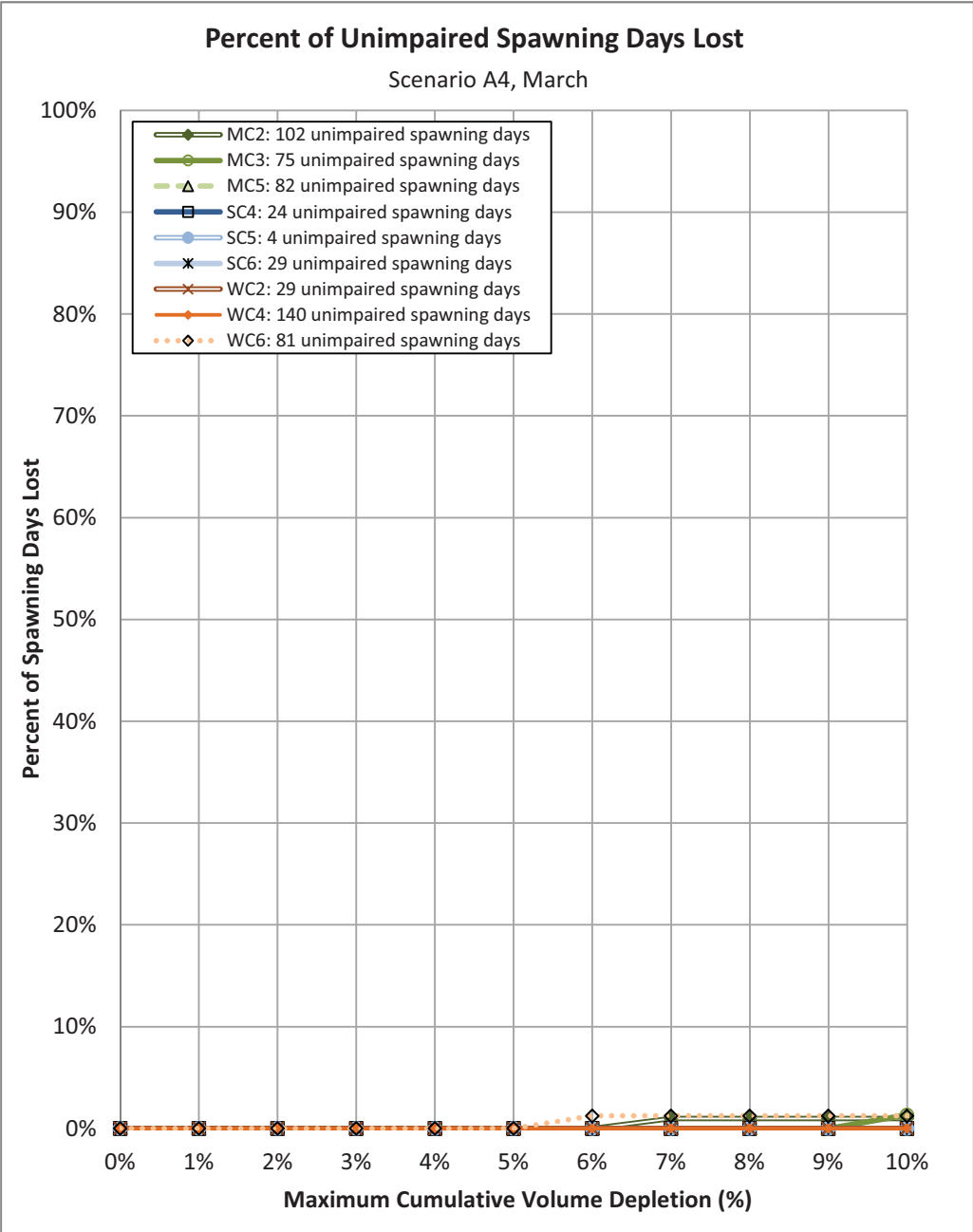
Scenario A4, February



Number of Unimpaired Spawning Days Lost

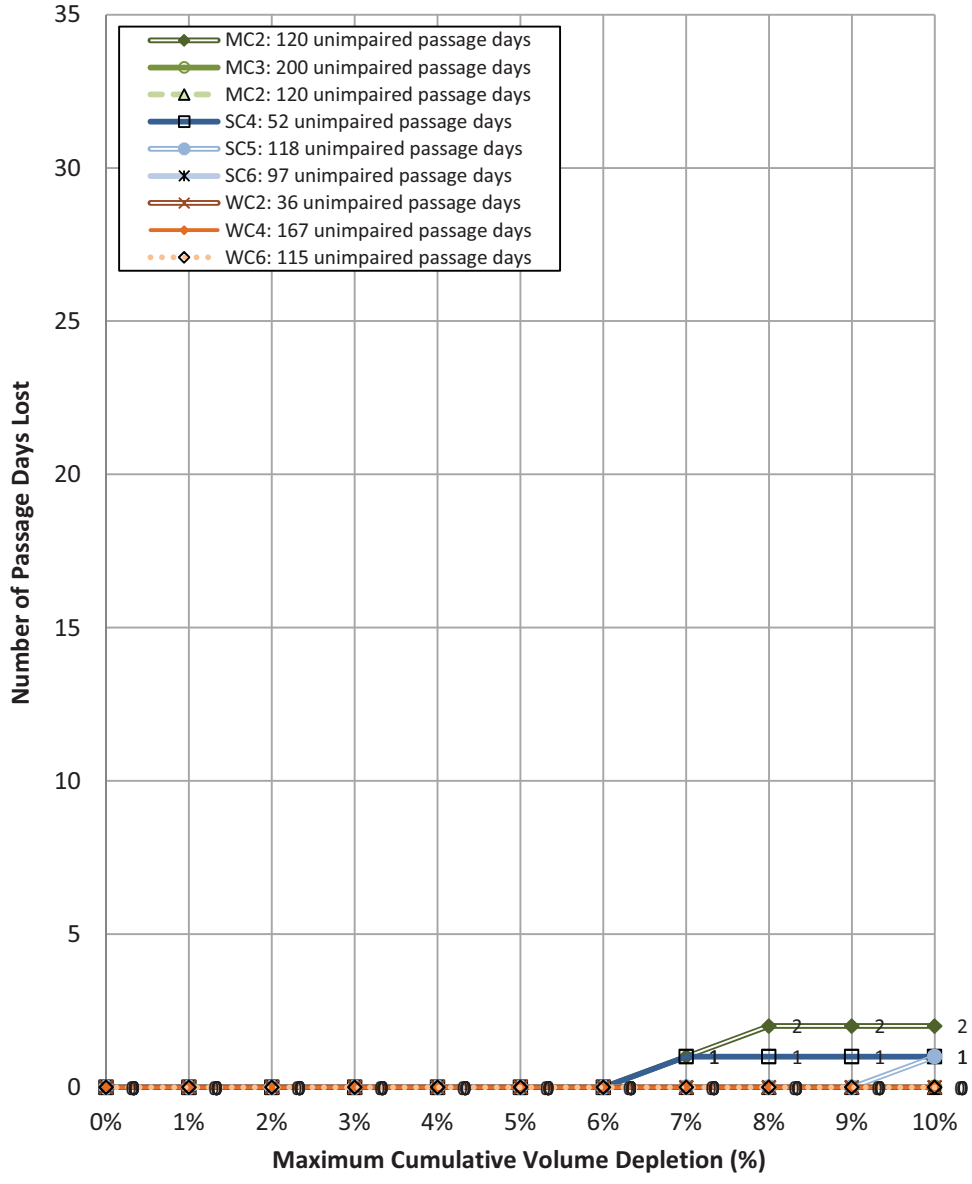
Scenario A4, March

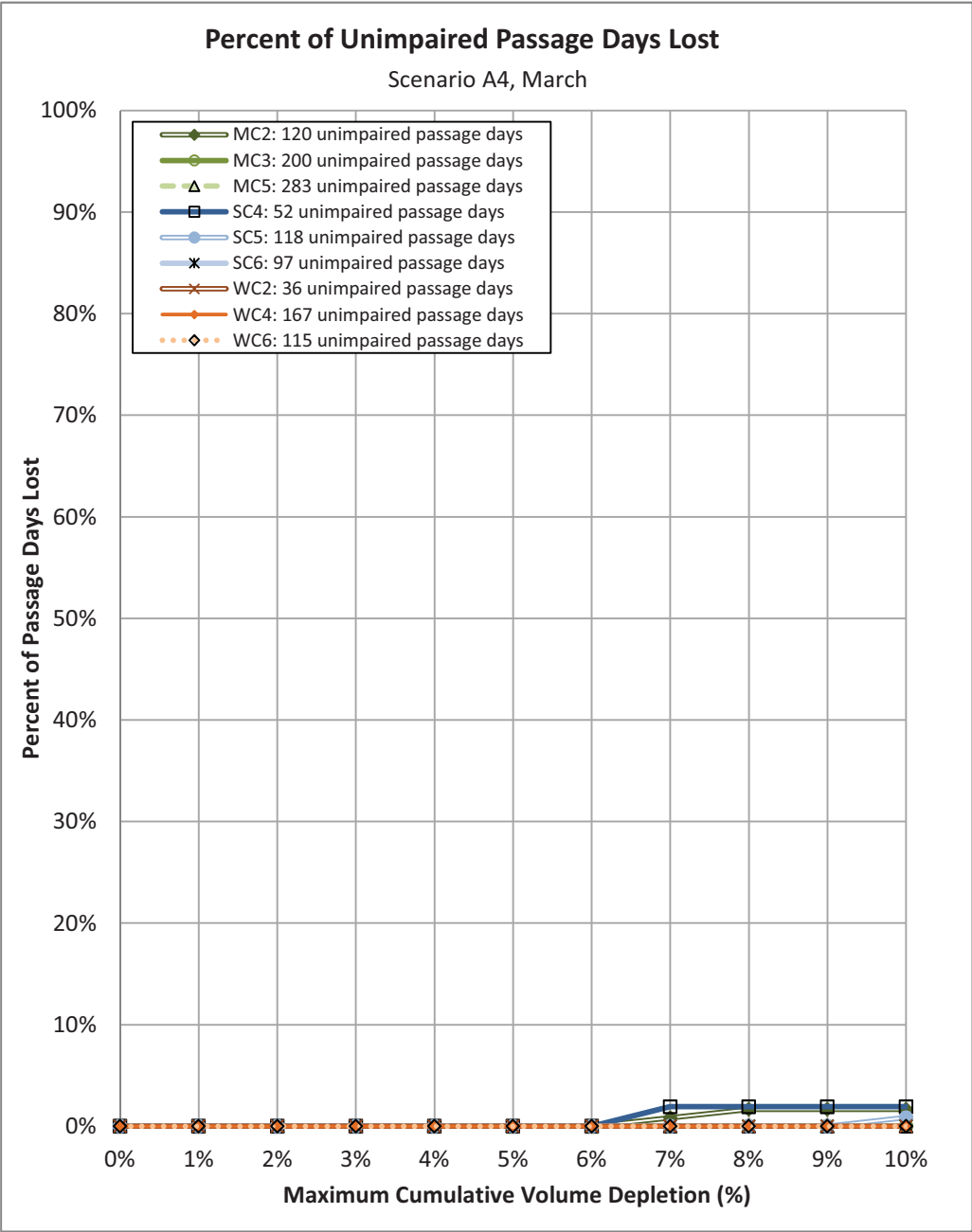




Number of Unimpaired Passage Days Lost

Scenario A4, March





7. Appendix E: Scenario A5 Passage and Spawning Day Tables, Graphs

Table E-73 Unimpaired and Impaired Passage Days in October, Scenario A5

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 14 | 23 | 43 | 4 | 7 | 7 | 0 | 0 | 8 |

| Maximum Cumulative Volume Depletion (%) | Impaired Passage Days | | | | | | | | |
|---|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 14 | 23 | 43 | 4 | 7 | 7 | 0 | 0 | 8 |
| 9% | 14 | 23 | 43 | 4 | 7 | 7 | 0 | 0 | 8 |
| 8% | 14 | 23 | 43 | 4 | 7 | 7 | 0 | 0 | 8 |
| 7% | 14 | 23 | 43 | 4 | 7 | 7 | 0 | 0 | 8 |
| 6% | 14 | 23 | 43 | 4 | 7 | 7 | 0 | 0 | 8 |
| 5% | 14 | 23 | 43 | 4 | 7 | 7 | 0 | 0 | 8 |
| 4% | 14 | 23 | 43 | 4 | 7 | 7 | 0 | 0 | 8 |
| 3% | 14 | 23 | 43 | 4 | 7 | 7 | 0 | 0 | 8 |
| 2% | 14 | 23 | 43 | 4 | 7 | 7 | 0 | 0 | 8 |
| 1% | 14 | 23 | 43 | 4 | 7 | 7 | 0 | 0 | 8 |
| 0% | 14 | 23 | 43 | 4 | 7 | 7 | 0 | 0 | 8 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Passage Days Lost | | | | | | | | |
|---|---|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | - | - | - | - | - | - | - | - | - |
| 9% | - | - | - | - | - | - | - | - | - |
| 8% | - | - | - | - | - | - | - | - | - |
| 7% | - | - | - | - | - | - | - | - | - |
| 6% | - | - | - | - | - | - | - | - | - |
| 5% | - | - | - | - | - | - | - | - | - |
| 4% | - | - | - | - | - | - | - | - | - |
| 3% | - | - | - | - | - | - | - | - | - |
| 2% | - | - | - | - | - | - | - | - | - |
| 1% | - | - | - | - | - | - | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of passage days

Table E-74 Unimpaired and Impaired Spawning Days in October, Scenario A5

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 9 | 6 | 6 | 0 | 0 | 1 | 0 | 0 | 1 |

| Maximum Cumulative Volume Depletion (%) | Impaired Spawning Days | | | | | | | | |
|---|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 9 | 6 | 6 | 0 | 0 | 1 | 0 | 0 | 1 |
| 9% | 9 | 6 | 6 | 0 | 0 | 1 | 0 | 0 | 1 |
| 8% | 9 | 6 | 6 | 0 | 0 | 1 | 0 | 0 | 1 |
| 7% | 9 | 6 | 6 | 0 | 0 | 1 | 0 | 0 | 1 |
| 6% | 9 | 6 | 6 | 0 | 0 | 1 | 0 | 0 | 1 |
| 5% | 9 | 6 | 6 | 0 | 0 | 1 | 0 | 0 | 1 |
| 4% | 9 | 6 | 6 | 0 | 0 | 1 | 0 | 0 | 1 |
| 3% | 9 | 6 | 6 | 0 | 0 | 1 | 0 | 0 | 1 |
| 2% | 9 | 6 | 6 | 0 | 0 | 1 | 0 | 0 | 1 |
| 1% | 9 | 6 | 6 | 0 | 0 | 1 | 0 | 0 | 1 |
| 0% | 9 | 6 | 6 | 0 | 0 | 1 | 0 | 0 | 1 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Spawning Days Lost | | | | | | | | |
|---|--|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | - | - | - | - | - | - | - | - | - |
| 9% | - | - | - | - | - | - | - | - | - |
| 8% | - | - | - | - | - | - | - | - | - |
| 7% | - | - | - | - | - | - | - | - | - |
| 6% | - | - | - | - | - | - | - | - | - |
| 5% | - | - | - | - | - | - | - | - | - |
| 4% | - | - | - | - | - | - | - | - | - |
| 3% | - | - | - | - | - | - | - | - | - |
| 2% | - | - | - | - | - | - | - | - | - |
| 1% | - | - | - | - | - | - | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Notes:

'-' indicates no loss of spawning days

Spawning is not usual in October; results provided only for comparison.

Table E-75 Unimpaired and Impaired Passage Days in November, Scenario A5

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | 12 | 36 | 94 | 2 | 6 | 4 | 1 | 3 |

| Maximum Cumulative Volume Depletion (%) | Impaired Passage Days | | | | | | | | |
|---|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 12 | 36 | 94 | 2 | 6 | 4 | 1 | 3 | 7 |
| 9% | 12 | 36 | 94 | 2 | 6 | 4 | 1 | 3 | 7 |
| 8% | 12 | 36 | 94 | 2 | 6 | 4 | 1 | 3 | 7 |
| 7% | 12 | 36 | 94 | 2 | 6 | 4 | 1 | 3 | 7 |
| 6% | 12 | 36 | 94 | 2 | 6 | 4 | 1 | 3 | 7 |
| 5% | 12 | 36 | 94 | 2 | 6 | 4 | 1 | 3 | 7 |
| 4% | 12 | 36 | 94 | 2 | 6 | 4 | 1 | 3 | 7 |
| 3% | 12 | 36 | 94 | 2 | 6 | 4 | 1 | 3 | 7 |
| 2% | 12 | 36 | 94 | 2 | 6 | 4 | 1 | 3 | 7 |
| 1% | 12 | 36 | 94 | 2 | 6 | 4 | 1 | 3 | 7 |
| 0% | 12 | 36 | 94 | 2 | 6 | 4 | 1 | 3 | 7 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Passage Days Lost | | | | | | | | |
|---|---|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | - | - | - | - | - | - | - | - | - |
| 9% | - | - | - | - | - | - | - | - | - |
| 8% | - | - | - | - | - | - | - | - | - |
| 7% | - | - | - | - | - | - | - | - | - |
| 6% | - | - | - | - | - | - | - | - | - |
| 5% | - | - | - | - | - | - | - | - | - |
| 4% | - | - | - | - | - | - | - | - | - |
| 3% | - | - | - | - | - | - | - | - | - |
| 2% | - | - | - | - | - | - | - | - | - |
| 1% | - | - | - | - | - | - | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of passage days

Table E-76 Unimpaired and Impaired Spawning Days in November, Scenario A5

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 8 | 3 | 6 | 1 | 1 | 1 | 1 | 1 | 1 |

| Maximum Cumulative Volume Depletion (%) | Impaired Spawning Days | | | | | | | | |
|---|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 8 | 3 | 6 | 1 | 1 | 1 | 1 | 1 | 1 |
| 9% | 8 | 3 | 6 | 1 | 1 | 1 | 1 | 1 | 1 |
| 8% | 8 | 3 | 6 | 1 | 1 | 1 | 1 | 1 | 1 |
| 7% | 8 | 3 | 6 | 1 | 1 | 1 | 1 | 1 | 1 |
| 6% | 8 | 3 | 6 | 1 | 1 | 1 | 1 | 1 | 1 |
| 5% | 8 | 3 | 6 | 1 | 1 | 1 | 1 | 1 | 1 |
| 4% | 8 | 3 | 6 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3% | 8 | 3 | 6 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2% | 8 | 3 | 6 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1% | 8 | 3 | 6 | 1 | 1 | 1 | 1 | 1 | 1 |
| 0% | 8 | 3 | 6 | 1 | 1 | 1 | 1 | 1 | 1 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Spawning Days Lost | | | | | | | | |
|---|--|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | - | - | - | - | - | - | - | - | - |
| 9% | - | - | - | - | - | - | - | - | - |
| 8% | - | - | - | - | - | - | - | - | - |
| 7% | - | - | - | - | - | - | - | - | - |
| 6% | - | - | - | - | - | - | - | - | - |
| 5% | - | - | - | - | - | - | - | - | - |
| 4% | - | - | - | - | - | - | - | - | - |
| 3% | - | - | - | - | - | - | - | - | - |
| 2% | - | - | - | - | - | - | - | - | - |
| 1% | - | - | - | - | - | - | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of spawning days

Table E-77 Unimpaired and Impaired Passage Days in December, Scenario A5

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | 112 | 162 | 217 | 46 | 75 | 66 | 33 | 99 |

| Maximum Cumulative Volume Depletion (%) | Impaired Passage Days | | | | | | | | |
|---|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 112 | 162 | 217 | 46 | 75 | 66 | 33 | 99 | 84 |
| 9% | 112 | 162 | 217 | 46 | 75 | 66 | 33 | 99 | 84 |
| 8% | 112 | 162 | 217 | 46 | 75 | 66 | 33 | 99 | 84 |
| 7% | 112 | 162 | 217 | 46 | 75 | 66 | 33 | 99 | 84 |
| 6% | 112 | 162 | 217 | 46 | 75 | 66 | 33 | 99 | 84 |
| 5% | 112 | 162 | 217 | 46 | 75 | 66 | 33 | 99 | 84 |
| 4% | 112 | 162 | 217 | 46 | 75 | 66 | 33 | 99 | 84 |
| 3% | 112 | 162 | 217 | 46 | 75 | 66 | 33 | 99 | 84 |
| 2% | 112 | 162 | 217 | 46 | 75 | 66 | 33 | 99 | 84 |
| 1% | 112 | 162 | 217 | 46 | 75 | 66 | 33 | 99 | 84 |
| 0% | 112 | 162 | 217 | 46 | 75 | 66 | 33 | 99 | 84 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Passage Days Lost | | | | | | | | |
|---|---|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | - | - | - | - | - | - | - | - | - |
| 9% | - | - | - | - | - | - | - | - | - |
| 8% | - | - | - | - | - | - | - | - | - |
| 7% | - | - | - | - | - | - | - | - | - |
| 6% | - | - | - | - | - | - | - | - | - |
| 5% | - | - | - | - | - | - | - | - | - |
| 4% | - | - | - | - | - | - | - | - | - |
| 3% | - | - | - | - | - | - | - | - | - |
| 2% | - | - | - | - | - | - | - | - | - |
| 1% | - | - | - | - | - | - | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of passage days

Table E-78 Unimpaired and Impaired Spawning Days in December, Scenario A5

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 101 | 85 | 93 | 34 | 10 | 35 | 30 | 75 | 69 |

| Maximum Cumulative Volume Depletion (%) | Impaired Spawning Days | | | | | | | | |
|---|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 101 | 85 | 93 | 30 | 10 | 35 | 30 | 75 | 69 |
| 9% | 101 | 85 | 93 | 30 | 10 | 35 | 30 | 75 | 69 |
| 8% | 101 | 85 | 93 | 30 | 10 | 35 | 30 | 75 | 69 |
| 7% | 101 | 85 | 93 | 30 | 10 | 35 | 30 | 75 | 69 |
| 6% | 101 | 85 | 93 | 30 | 10 | 35 | 30 | 75 | 69 |
| 5% | 101 | 85 | 93 | 30 | 10 | 35 | 30 | 75 | 69 |
| 4% | 101 | 85 | 93 | 31 | 10 | 35 | 30 | 75 | 69 |
| 3% | 101 | 85 | 93 | 32 | 10 | 35 | 30 | 75 | 69 |
| 2% | 101 | 85 | 93 | 32 | 10 | 35 | 30 | 75 | 69 |
| 1% | 101 | 85 | 93 | 32 | 10 | 35 | 30 | 75 | 69 |
| 0% | 101 | 85 | 93 | 34 | 10 | 35 | 30 | 75 | 69 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Spawning Days Lost | | | | | | | | |
|---|--|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | - | - | - | 12% | - | - | - | - | - |
| 9% | - | - | - | 12% | - | - | - | - | - |
| 8% | - | - | - | 12% | - | - | - | - | - |
| 7% | - | - | - | 12% | - | - | - | - | - |
| 6% | - | - | - | 12% | - | - | - | - | - |
| 5% | - | - | - | 12% | - | - | - | - | - |
| 4% | - | - | - | 9% | - | - | - | - | - |
| 3% | - | - | - | 6% | - | - | - | - | - |
| 2% | - | - | - | 6% | - | - | - | - | - |
| 1% | - | - | - | 6% | - | - | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of spawning days

Table E-79 Unimpaired and Impaired Passage Days in January, Scenario A5

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 104 | 187 | 241 | 53 | 105 | 86 | 25 | 165 | 102 |

| Maximum Cumulative Volume Depletion (%) | Impaired Passage Days | | | | | | | | |
|---|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 104 | 187 | 241 | 53 | 105 | 86 | 25 | 165 | 102 |
| 9% | 104 | 187 | 241 | 53 | 105 | 86 | 25 | 165 | 102 |
| 8% | 104 | 187 | 241 | 53 | 105 | 86 | 25 | 165 | 102 |
| 7% | 104 | 187 | 241 | 53 | 105 | 86 | 25 | 165 | 102 |
| 6% | 104 | 187 | 241 | 53 | 105 | 86 | 25 | 165 | 102 |
| 5% | 104 | 187 | 241 | 53 | 105 | 86 | 25 | 165 | 102 |
| 4% | 104 | 187 | 241 | 53 | 105 | 86 | 25 | 165 | 102 |
| 3% | 104 | 187 | 241 | 53 | 105 | 86 | 25 | 165 | 102 |
| 2% | 104 | 187 | 241 | 53 | 105 | 86 | 25 | 165 | 102 |
| 1% | 104 | 187 | 241 | 53 | 105 | 86 | 25 | 165 | 102 |
| 0% | 104 | 187 | 241 | 53 | 105 | 86 | 25 | 165 | 102 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Passage Days Lost | | | | | | | | |
|---|---|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | - | - | - | - | - | - | - | - | - |
| 9% | - | - | - | - | - | - | - | - | - |
| 8% | - | - | - | - | - | - | - | - | - |
| 7% | - | - | - | - | - | - | - | - | - |
| 6% | - | - | - | - | - | - | - | - | - |
| 5% | - | - | - | - | - | - | - | - | - |
| 4% | - | - | - | - | - | - | - | - | - |
| 3% | - | - | - | - | - | - | - | - | - |
| 2% | - | - | - | - | - | - | - | - | - |
| 1% | - | - | - | - | - | - | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of passage days

Table E-80 Unimpaired and Impaired Spawning Days in January, Scenario A5

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 87 | 68 | 73 | 29 | 6 | 30 | 22 | 136 | 74 |

| Maximum Cumulative Volume Depletion (%) | Impaired Spawning Days | | | | | | | | |
|---|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 87 | 68 | 73 | 26 | 6 | 29 | 22 | 136 | 74 |
| 9% | 87 | 68 | 73 | 27 | 6 | 29 | 22 | 136 | 74 |
| 8% | 87 | 68 | 73 | 27 | 6 | 29 | 22 | 136 | 74 |
| 7% | 87 | 68 | 73 | 27 | 6 | 29 | 22 | 136 | 74 |
| 6% | 87 | 68 | 73 | 27 | 6 | 29 | 22 | 136 | 74 |
| 5% | 87 | 68 | 73 | 27 | 6 | 29 | 22 | 136 | 74 |
| 4% | 87 | 68 | 73 | 27 | 6 | 29 | 22 | 136 | 74 |
| 3% | 87 | 68 | 73 | 27 | 6 | 29 | 22 | 136 | 74 |
| 2% | 87 | 68 | 73 | 27 | 6 | 29 | 22 | 136 | 74 |
| 1% | 87 | 68 | 73 | 28 | 6 | 29 | 22 | 136 | 74 |
| 0% | 87 | 68 | 73 | 29 | 6 | 30 | 22 | 136 | 74 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Spawning Days Lost | | | | | | | | |
|---|--|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | - | - | - | 10% | - | 3% | - | - | - |
| 9% | - | - | - | 7% | - | 3% | - | - | - |
| 8% | - | - | - | 7% | - | 3% | - | - | - |
| 7% | - | - | - | 7% | - | 3% | - | - | - |
| 6% | - | - | - | 7% | - | 3% | - | - | - |
| 5% | - | - | - | 7% | - | 3% | - | - | - |
| 4% | - | - | - | 7% | - | 3% | - | - | - |
| 3% | - | - | - | 7% | - | 3% | - | - | - |
| 2% | - | - | - | 7% | - | 3% | - | - | - |
| 1% | - | - | - | 3% | - | 3% | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of spawning days

Table E-81 Unimpaired and Impaired Passage Days in February, Scenario A5

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | 105 | 176 | 262 | 43 | 112 | 82 | 31 | 178 |

| Maximum Cumulative Volume Depletion (%) | Impaired Passage Days | | | | | | | | |
|---|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 105 | 176 | 262 | 43 | 112 | 82 | 31 | 178 | 119 |
| 9% | 105 | 176 | 262 | 43 | 112 | 82 | 31 | 178 | 119 |
| 8% | 105 | 176 | 262 | 43 | 112 | 82 | 31 | 178 | 119 |
| 7% | 105 | 176 | 262 | 43 | 112 | 82 | 31 | 178 | 119 |
| 6% | 105 | 176 | 262 | 43 | 112 | 82 | 31 | 178 | 119 |
| 5% | 105 | 176 | 262 | 43 | 112 | 82 | 31 | 178 | 119 |
| 4% | 105 | 176 | 262 | 43 | 112 | 82 | 31 | 178 | 119 |
| 3% | 105 | 176 | 262 | 43 | 112 | 82 | 31 | 178 | 119 |
| 2% | 105 | 176 | 262 | 43 | 112 | 82 | 31 | 178 | 119 |
| 1% | 105 | 176 | 262 | 43 | 112 | 82 | 31 | 178 | 119 |
| 0% | 105 | 176 | 262 | 43 | 112 | 82 | 31 | 178 | 119 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Passage Days Lost | | | | | | | | |
|---|---|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | - | - | - | - | - | - | - | - | - |
| 9% | - | - | - | - | - | - | - | - | - |
| 8% | - | - | - | - | - | - | - | - | - |
| 7% | - | - | - | - | - | - | - | - | - |
| 6% | - | - | - | - | - | - | - | - | - |
| 5% | - | - | - | - | - | - | - | - | - |
| 4% | - | - | - | - | - | - | - | - | - |
| 3% | - | - | - | - | - | - | - | - | - |
| 2% | - | - | - | - | - | - | - | - | - |
| 1% | - | - | - | - | - | - | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of passage days

Table E-82 Unimpaired and Impaired Spawning Days in February, Scenario A5

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 93 | 71 | 80 | 17 | 5 | 24 | 25 | 138 | 79 |

| Maximum Cumulative Volume Depletion (%) | Impaired Spawning Days | | | | | | | | |
|---|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 93 | 71 | 80 | 14 | 5 | 24 | 25 | 138 | 79 |
| 9% | 93 | 71 | 80 | 14 | 5 | 24 | 25 | 138 | 79 |
| 8% | 93 | 71 | 80 | 14 | 5 | 24 | 25 | 138 | 79 |
| 7% | 93 | 71 | 80 | 15 | 5 | 24 | 25 | 138 | 79 |
| 6% | 93 | 71 | 80 | 16 | 5 | 24 | 25 | 138 | 79 |
| 5% | 93 | 71 | 80 | 17 | 5 | 24 | 25 | 138 | 79 |
| 4% | 93 | 71 | 80 | 17 | 5 | 24 | 25 | 138 | 79 |
| 3% | 93 | 71 | 80 | 17 | 5 | 24 | 25 | 138 | 79 |
| 2% | 93 | 71 | 80 | 17 | 5 | 24 | 25 | 138 | 79 |
| 1% | 93 | 71 | 80 | 17 | 5 | 24 | 25 | 138 | 79 |
| 0% | 93 | 71 | 80 | 17 | 5 | 24 | 25 | 138 | 79 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Spawning Days Lost | | | | | | | | |
|---|--|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | - | - | - | 18% | - | - | - | - | - |
| 9% | - | - | - | 18% | - | - | - | - | - |
| 8% | - | - | - | 18% | - | - | - | - | - |
| 7% | - | - | - | 12% | - | - | - | - | - |
| 6% | - | - | - | 6% | - | - | - | - | - |
| 5% | - | - | - | - | - | - | - | - | - |
| 4% | - | - | - | - | - | - | - | - | - |
| 3% | - | - | - | - | - | - | - | - | - |
| 2% | - | - | - | - | - | - | - | - | - |
| 1% | - | - | - | - | - | - | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of spawning days

Table E-83 Unimpaired and Impaired Passage Days in March, Scenario A5

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | 120 | 200 | 283 | 52 | 118 | 97 | 36 | 167 |

| Maximum Cumulative Volume Depletion (%) | Impaired Passage Days | | | | | | | | |
|---|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 120 | 200 | 283 | 52 | 118 | 97 | 36 | 167 | 115 |
| 9% | 120 | 200 | 283 | 52 | 118 | 97 | 36 | 167 | 115 |
| 8% | 120 | 200 | 283 | 52 | 118 | 97 | 36 | 167 | 115 |
| 7% | 120 | 200 | 283 | 52 | 118 | 97 | 36 | 167 | 115 |
| 6% | 120 | 200 | 283 | 52 | 118 | 97 | 36 | 167 | 115 |
| 5% | 120 | 200 | 283 | 52 | 118 | 97 | 36 | 167 | 115 |
| 4% | 120 | 200 | 283 | 52 | 118 | 97 | 36 | 167 | 115 |
| 3% | 120 | 200 | 283 | 52 | 118 | 97 | 36 | 167 | 115 |
| 2% | 120 | 200 | 283 | 52 | 118 | 97 | 36 | 167 | 115 |
| 1% | 120 | 200 | 283 | 52 | 118 | 97 | 36 | 167 | 115 |
| 0% | 120 | 200 | 283 | 52 | 118 | 97 | 36 | 167 | 115 |

| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Passage Days Lost | | | | | | | | |
|---|---|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | - | - | - | - | - | - | - | - | - |
| 9% | - | - | - | - | - | - | - | - | - |
| 8% | - | - | - | - | - | - | - | - | - |
| 7% | - | - | - | - | - | - | - | - | - |
| 6% | - | - | - | - | - | - | - | - | - |
| 5% | - | - | - | - | - | - | - | - | - |
| 4% | - | - | - | - | - | - | - | - | - |
| 3% | - | - | - | - | - | - | - | - | - |
| 2% | - | - | - | - | - | - | - | - | - |
| 1% | - | - | - | - | - | - | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of passage days

Table E-84 Unimpaired and Impaired Spawning Days in March, Scenario A5

| Unimpaired Passage Days | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 102 | 75 | 82 | 24 | 4 | 29 | 29 | 140 | 81 |

| Maximum Cumulative Volume Depletion (%) | Impaired Spawning Days | | | | | | | | |
|---|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | 102 | 75 | 82 | 23 | 4 | 29 | 29 | 140 | 81 |
| 9% | 102 | 75 | 82 | 23 | 4 | 29 | 29 | 140 | 81 |
| 8% | 102 | 75 | 82 | 23 | 4 | 29 | 29 | 140 | 81 |
| 7% | 102 | 75 | 82 | 23 | 4 | 29 | 29 | 140 | 81 |
| 6% | 102 | 75 | 82 | 24 | 4 | 29 | 29 | 140 | 81 |
| 5% | 102 | 75 | 82 | 24 | 4 | 29 | 29 | 140 | 81 |
| 4% | 102 | 75 | 82 | 24 | 4 | 29 | 29 | 140 | 81 |
| 3% | 102 | 75 | 82 | 24 | 4 | 29 | 29 | 140 | 81 |
| 2% | 102 | 75 | 82 | 24 | 4 | 29 | 29 | 140 | 81 |
| 1% | 102 | 75 | 82 | 24 | 4 | 29 | 29 | 140 | 81 |
| 0% | 102 | 75 | 82 | 24 | 4 | 29 | 29 | 140 | 81 |

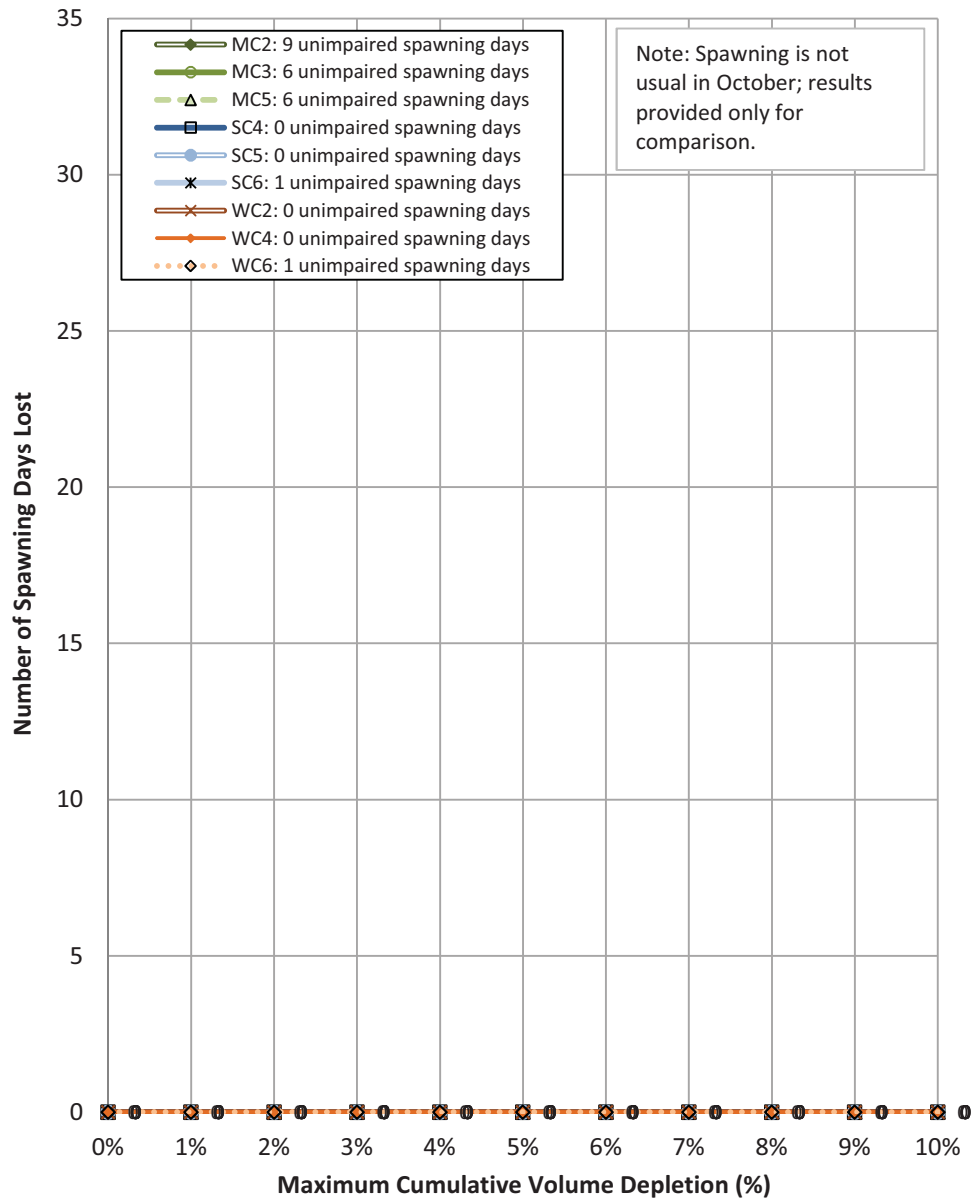
| Maximum Cumulative Volume Depletion (%) | Percent of Unimpaired Spawning Days Lost | | | | | | | | |
|---|--|-----|-----|-----|-----|-----|-----|-----|-----|
| | MC2 | MC3 | MC5 | SC4 | SC5 | SC6 | WC2 | WC4 | WC6 |
| 10% | - | - | - | 4% | - | - | - | - | - |
| 9% | - | - | - | 4% | - | - | - | - | - |
| 8% | - | - | - | 4% | - | - | - | - | - |
| 7% | - | - | - | 4% | - | - | - | - | - |
| 6% | - | - | - | - | - | - | - | - | - |
| 5% | - | - | - | - | - | - | - | - | - |
| 4% | - | - | - | - | - | - | - | - | - |
| 3% | - | - | - | - | - | - | - | - | - |
| 2% | - | - | - | - | - | - | - | - | - |
| 1% | - | - | - | - | - | - | - | - | - |
| 0% | - | - | - | - | - | - | - | - | - |

Note:

'-' indicates no loss of spawning days

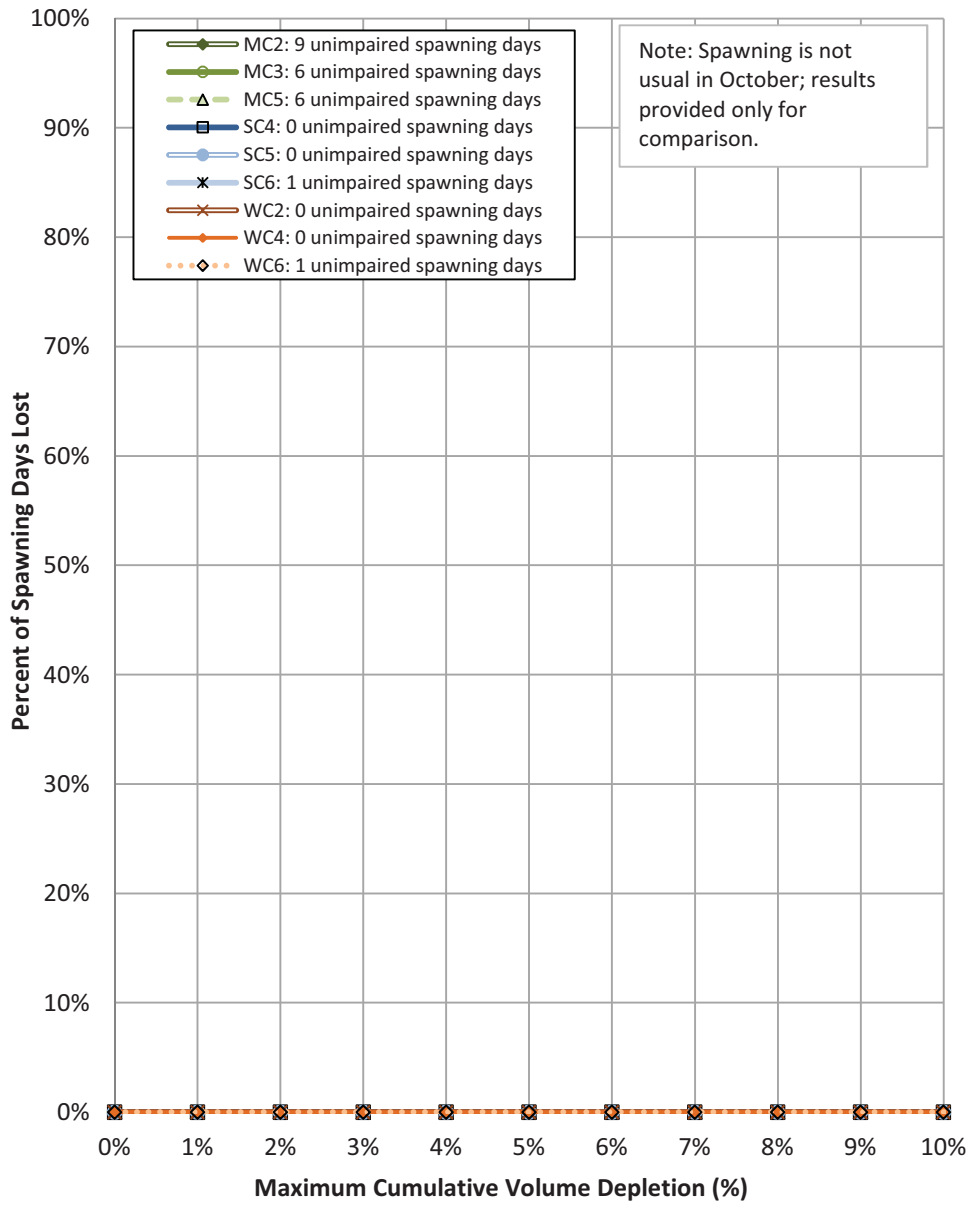
Number of Unimpaired Spawning Days Lost

Scenario A5, October



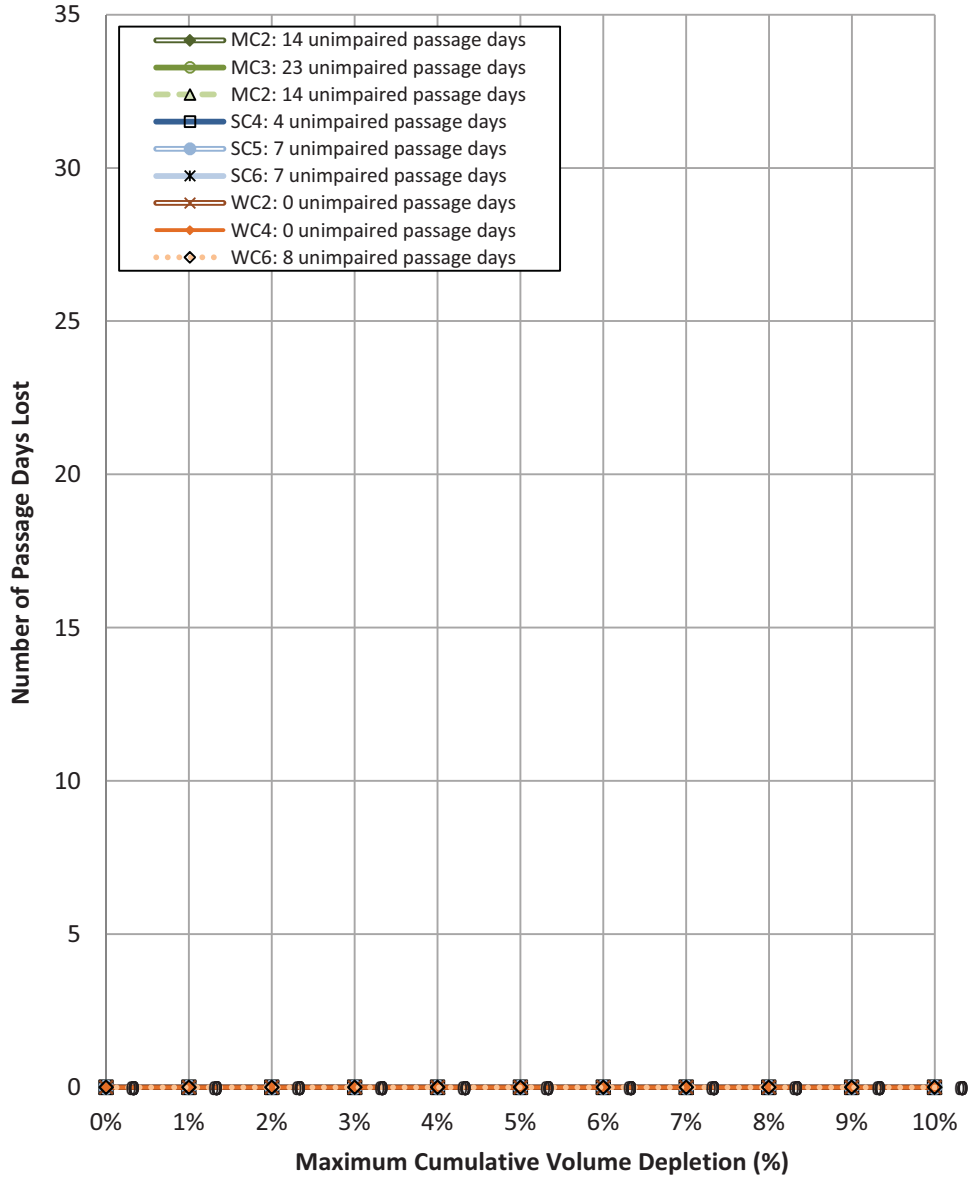
Percent of Unimpaired Spawning Days Lost

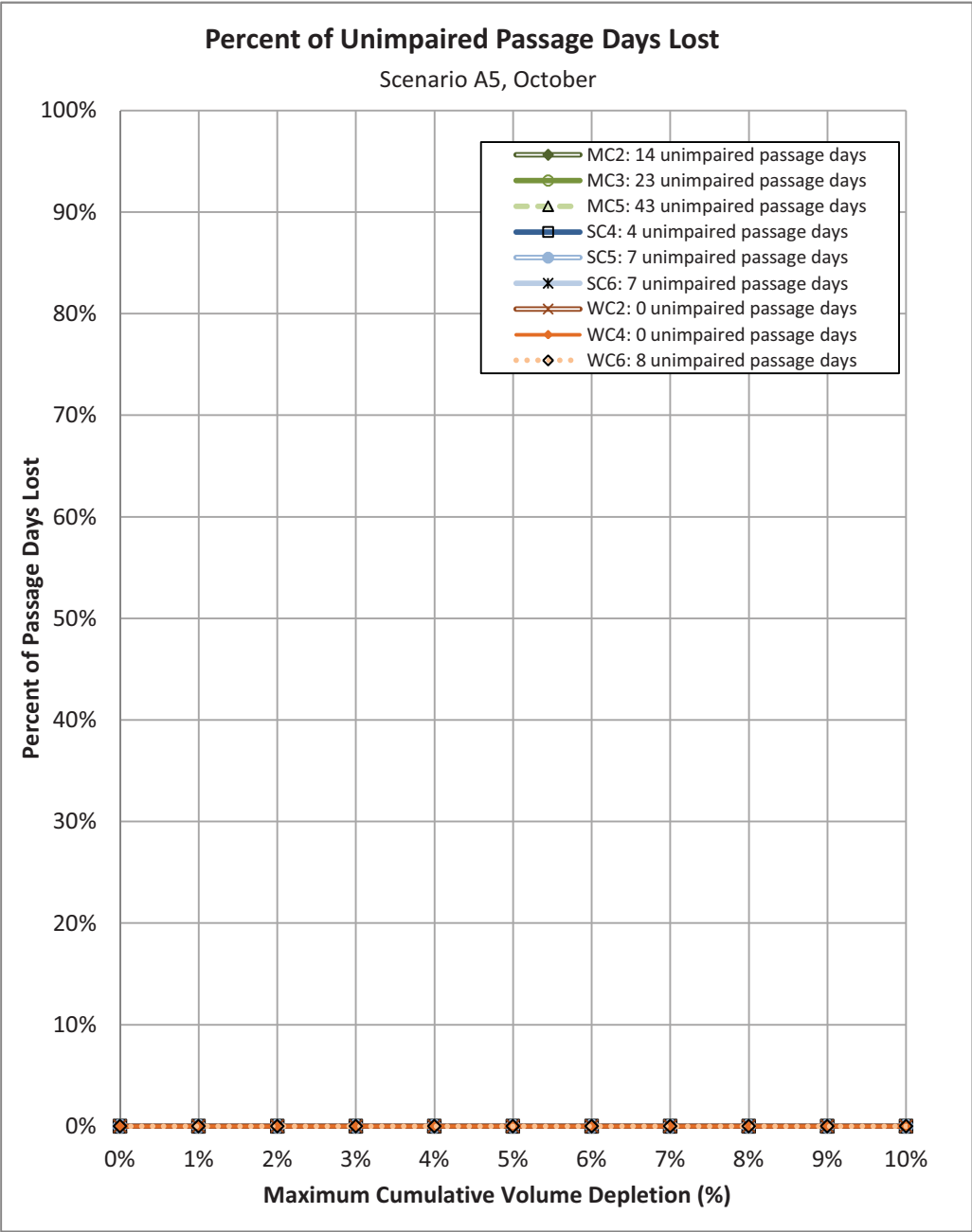
Scenario A5, October



Number of Unimpaired Passage Days Lost

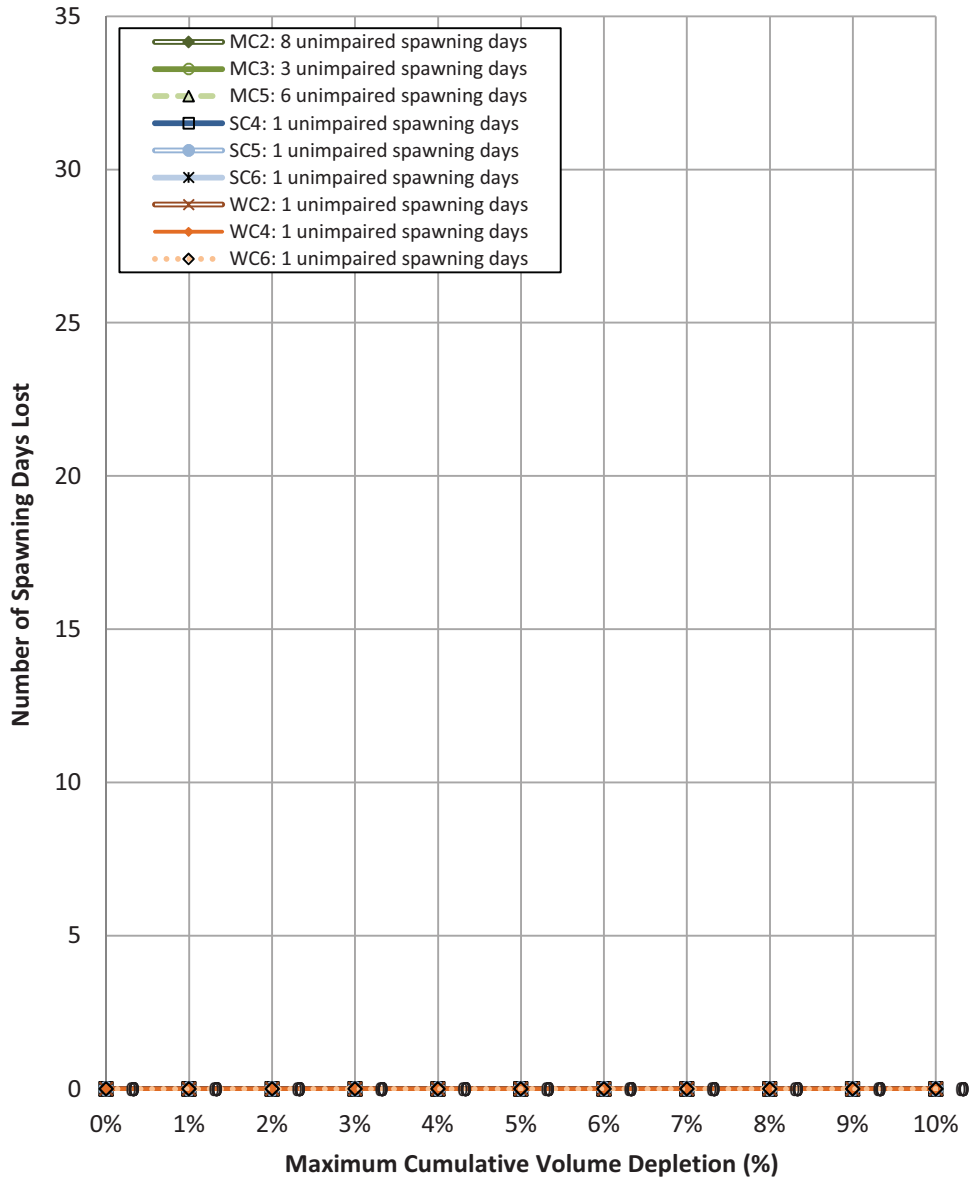
Scenario A5, October

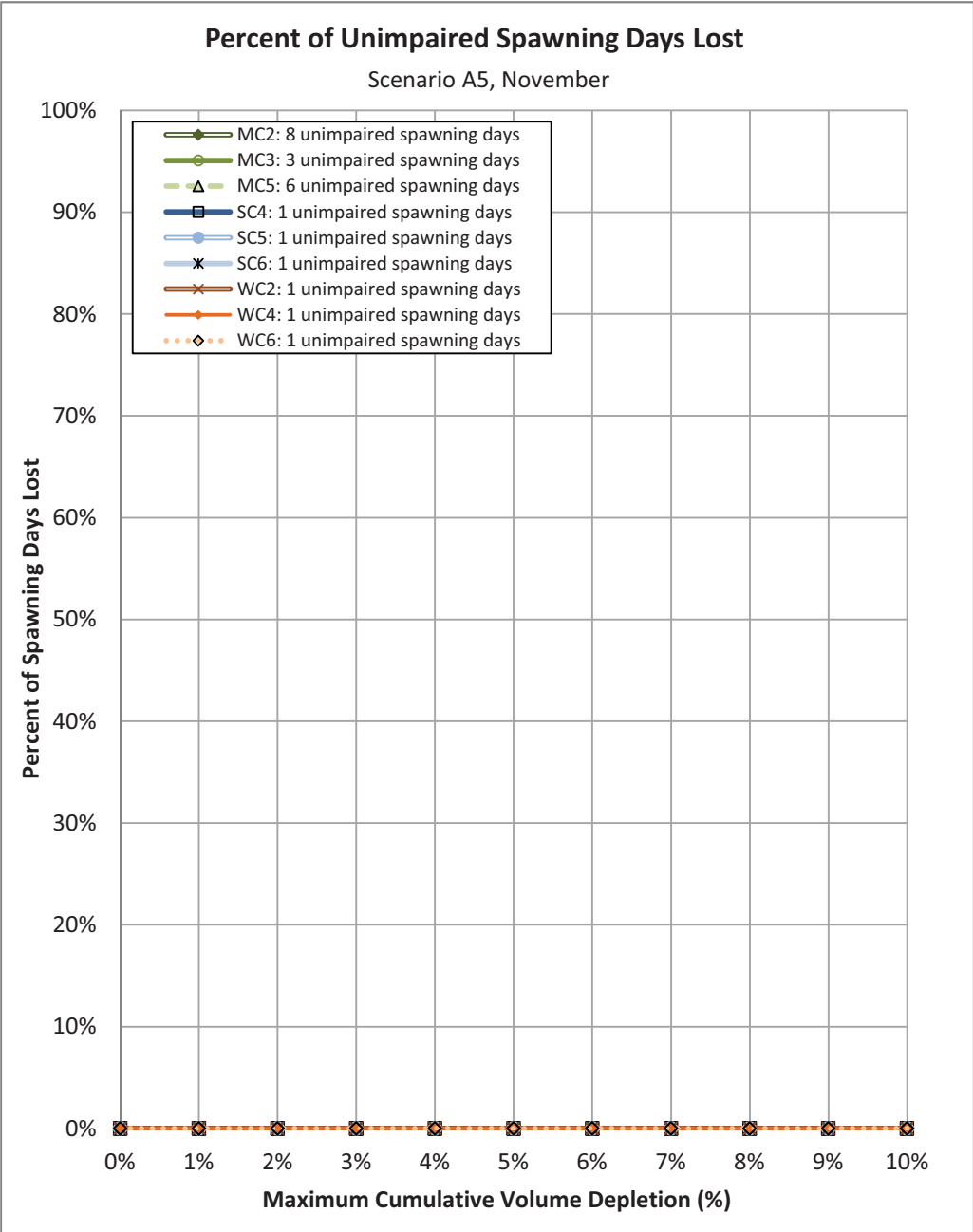




Number of Unimpaired Spawning Days Lost

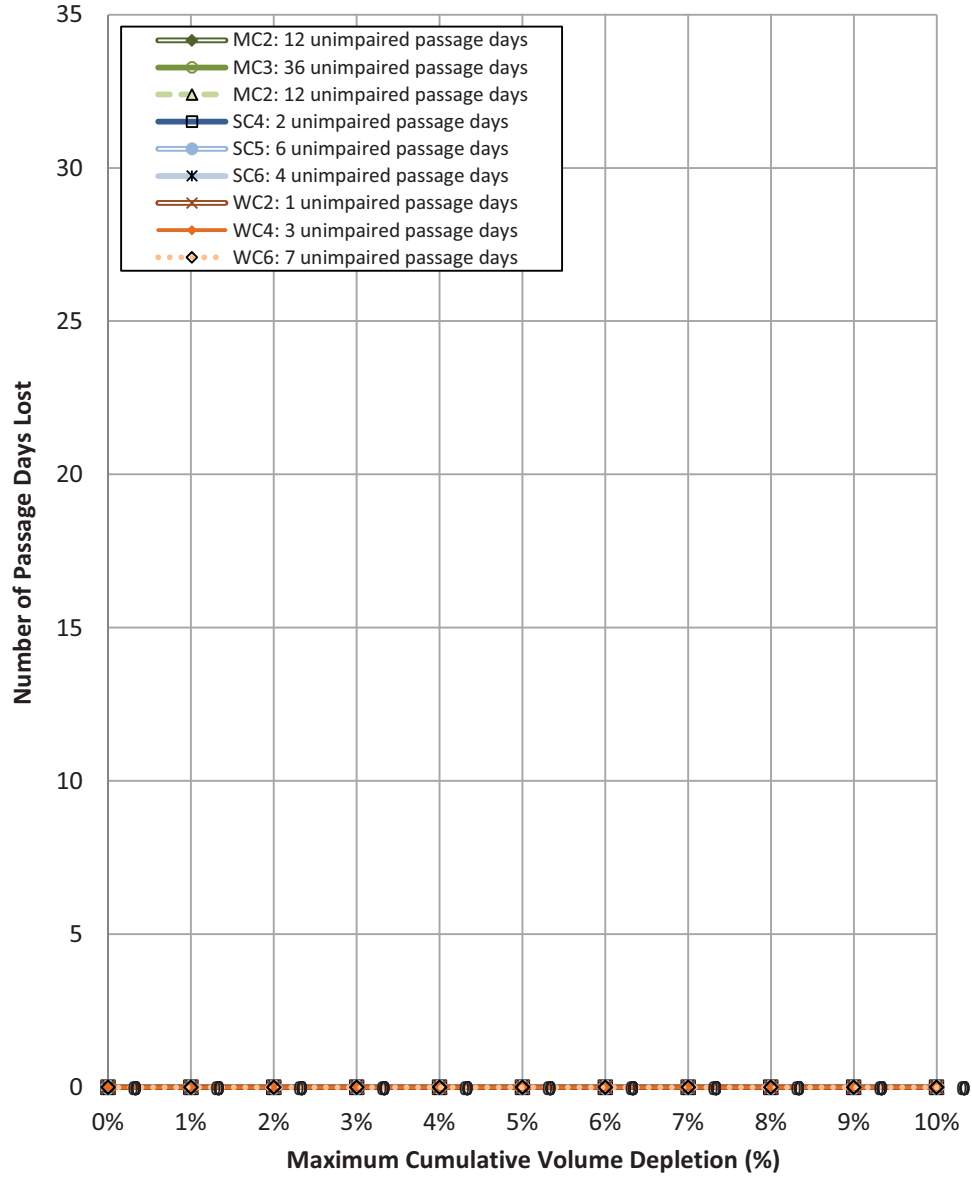
Scenario A5, November





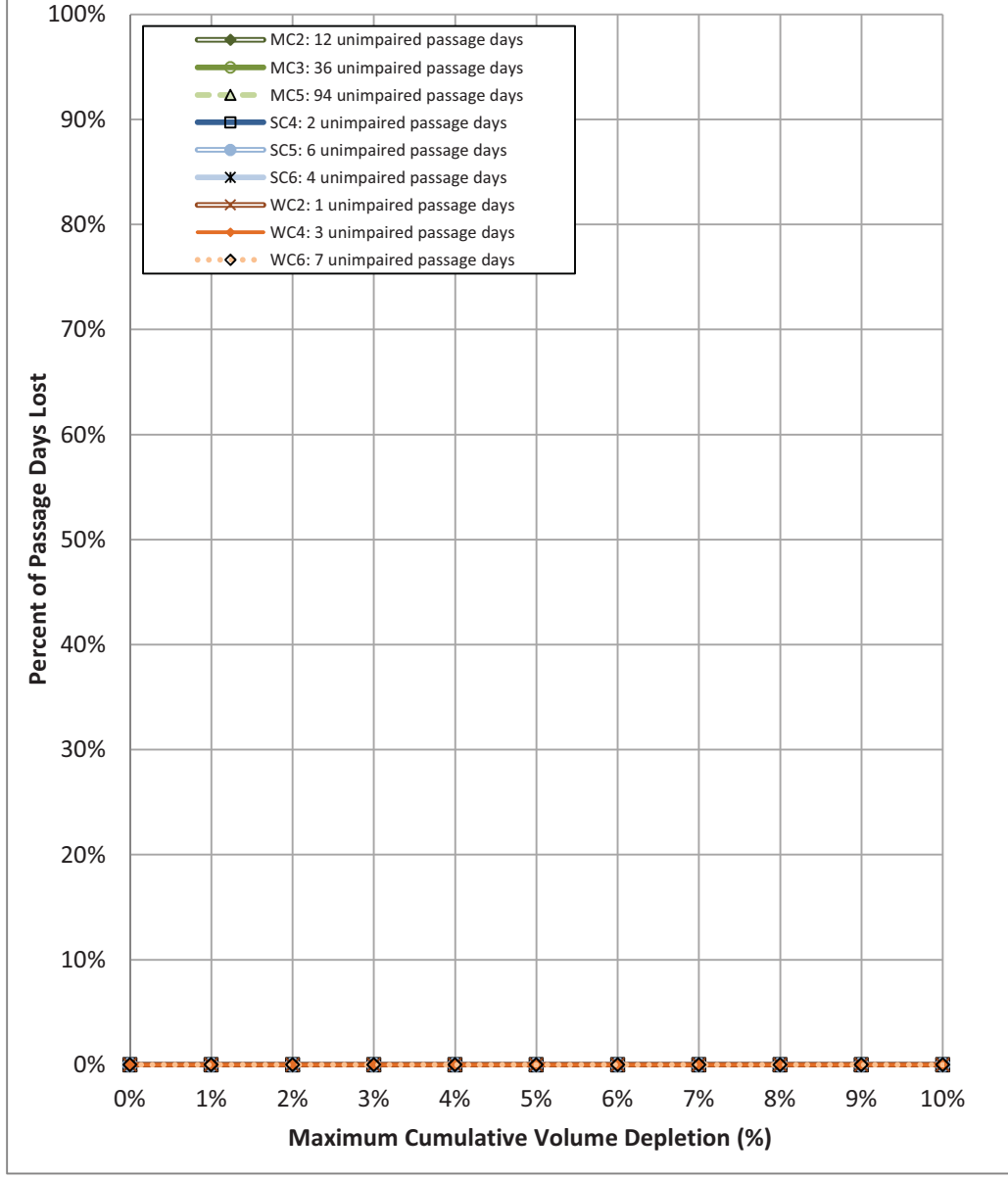
Number of Unimpaired Passage Days Lost

Scenario A5, November



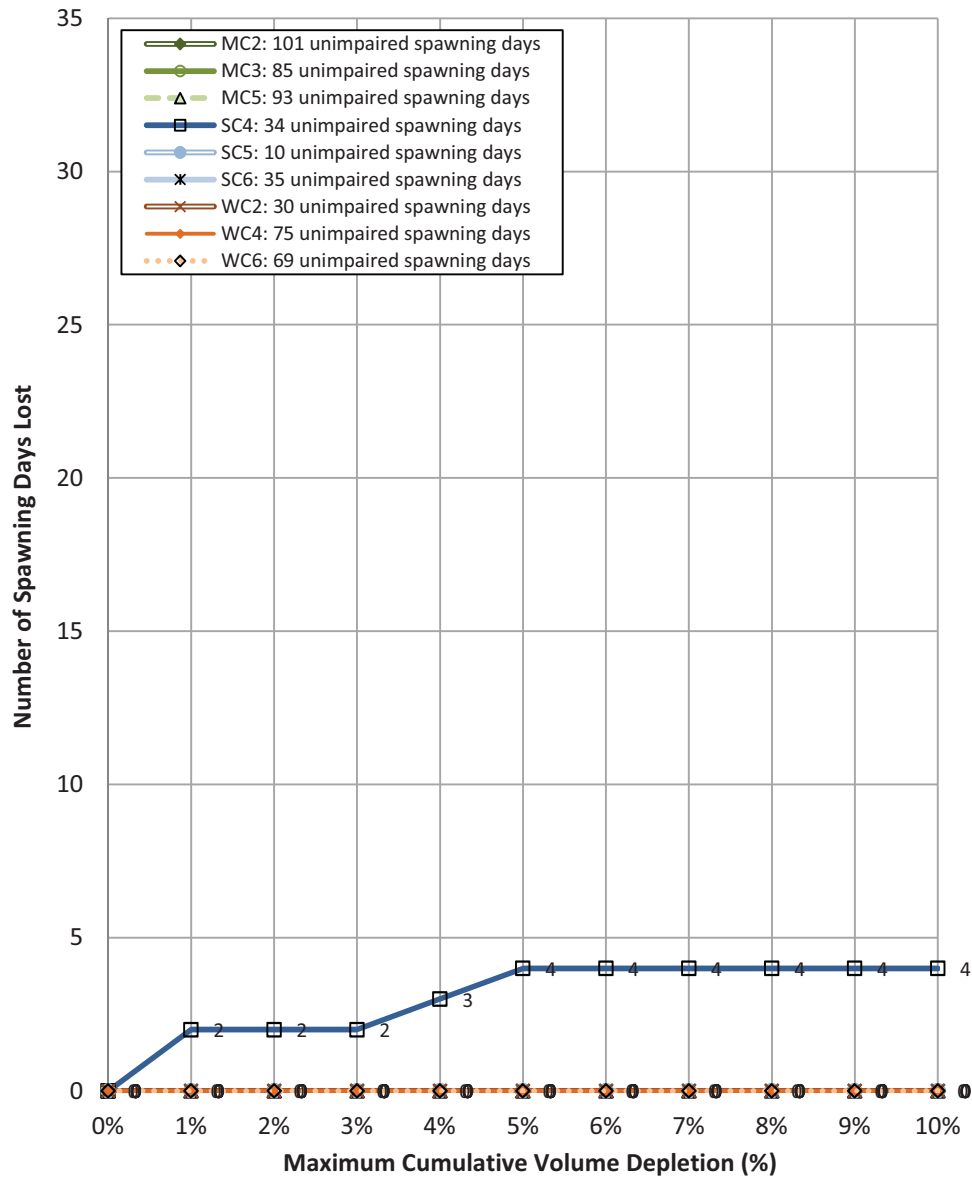
Percent of Unimpaired Passage Days Lost

Scenario A5, November



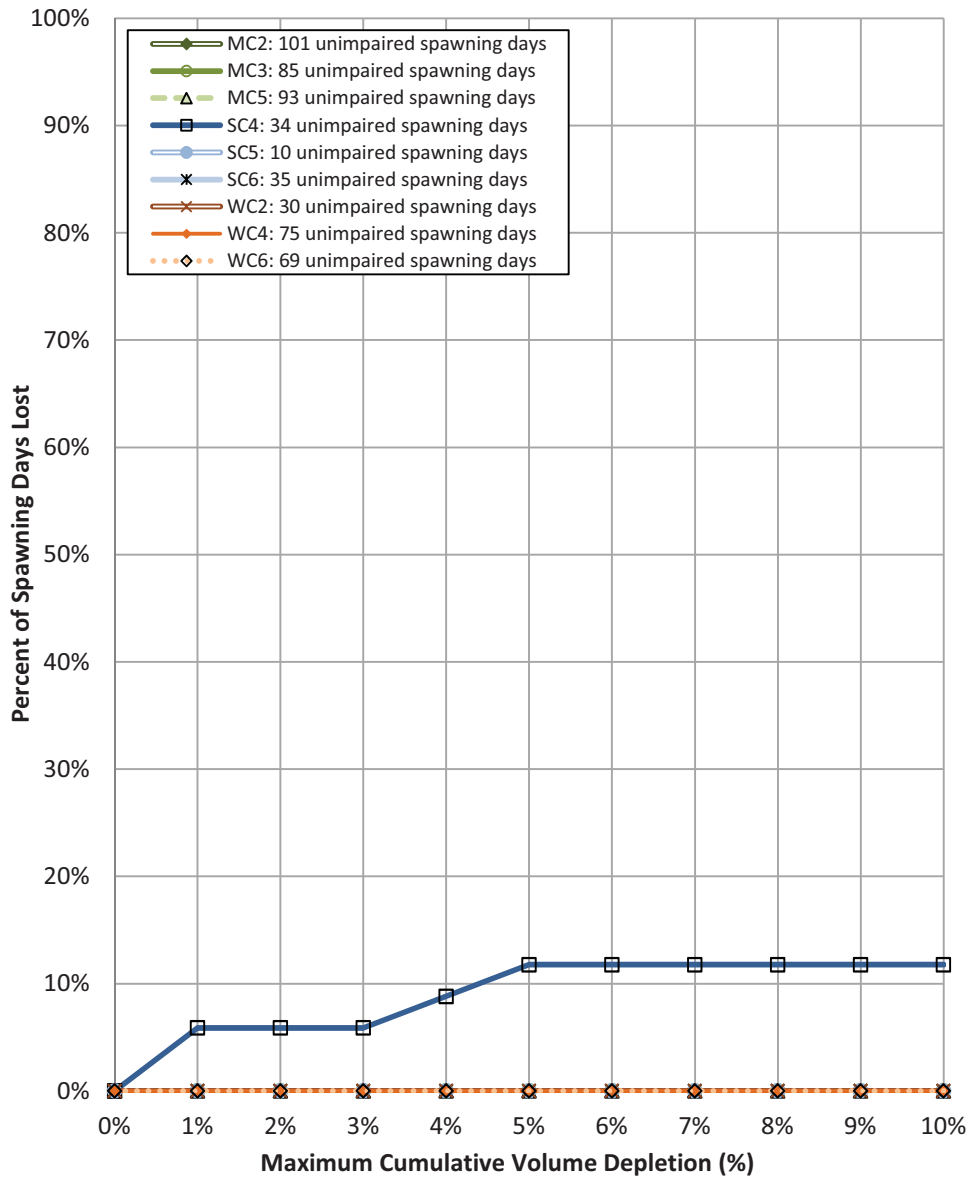
Number of Unimpaired Spawning Days Lost

Scenario A5, December



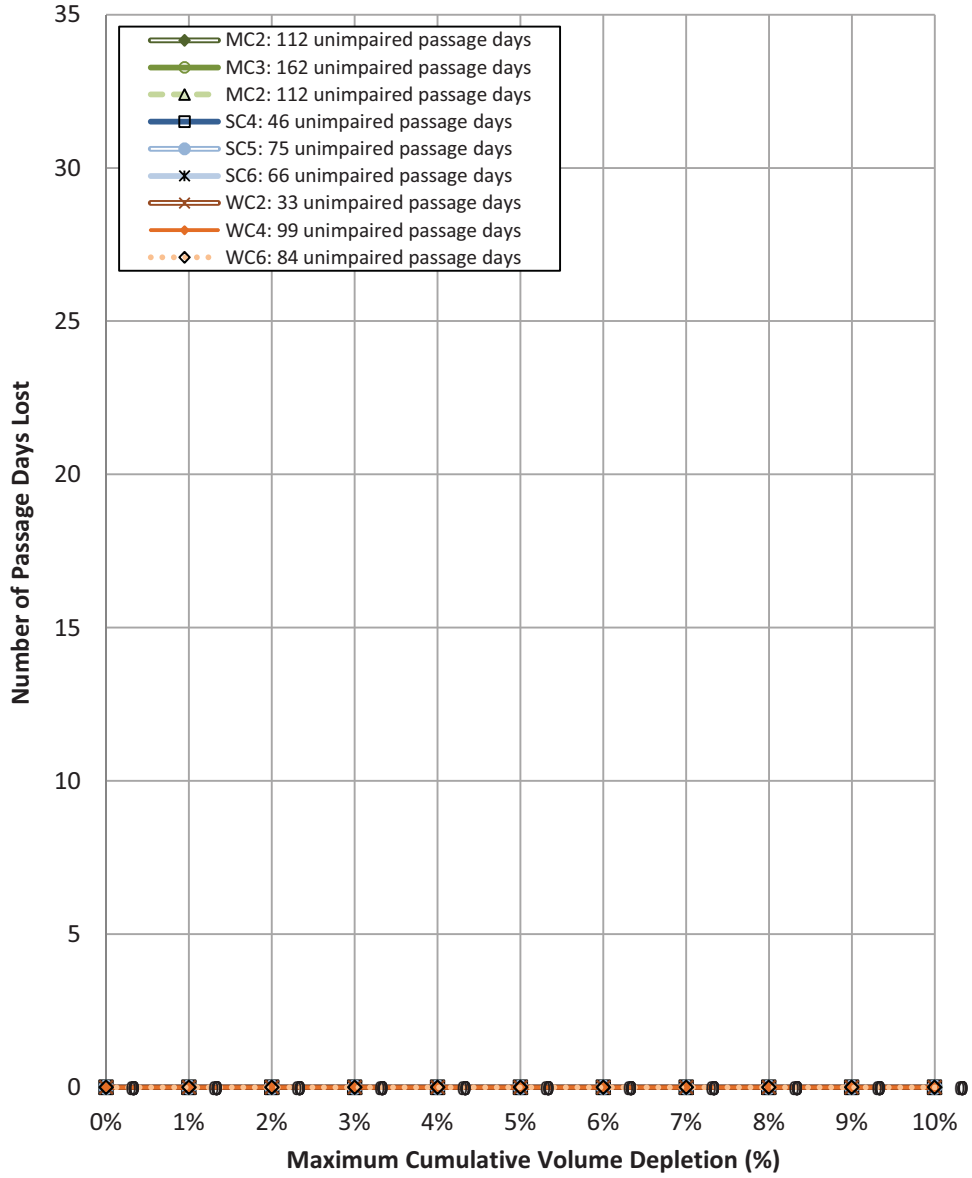
Percent of Unimpaired Spawning Days Lost

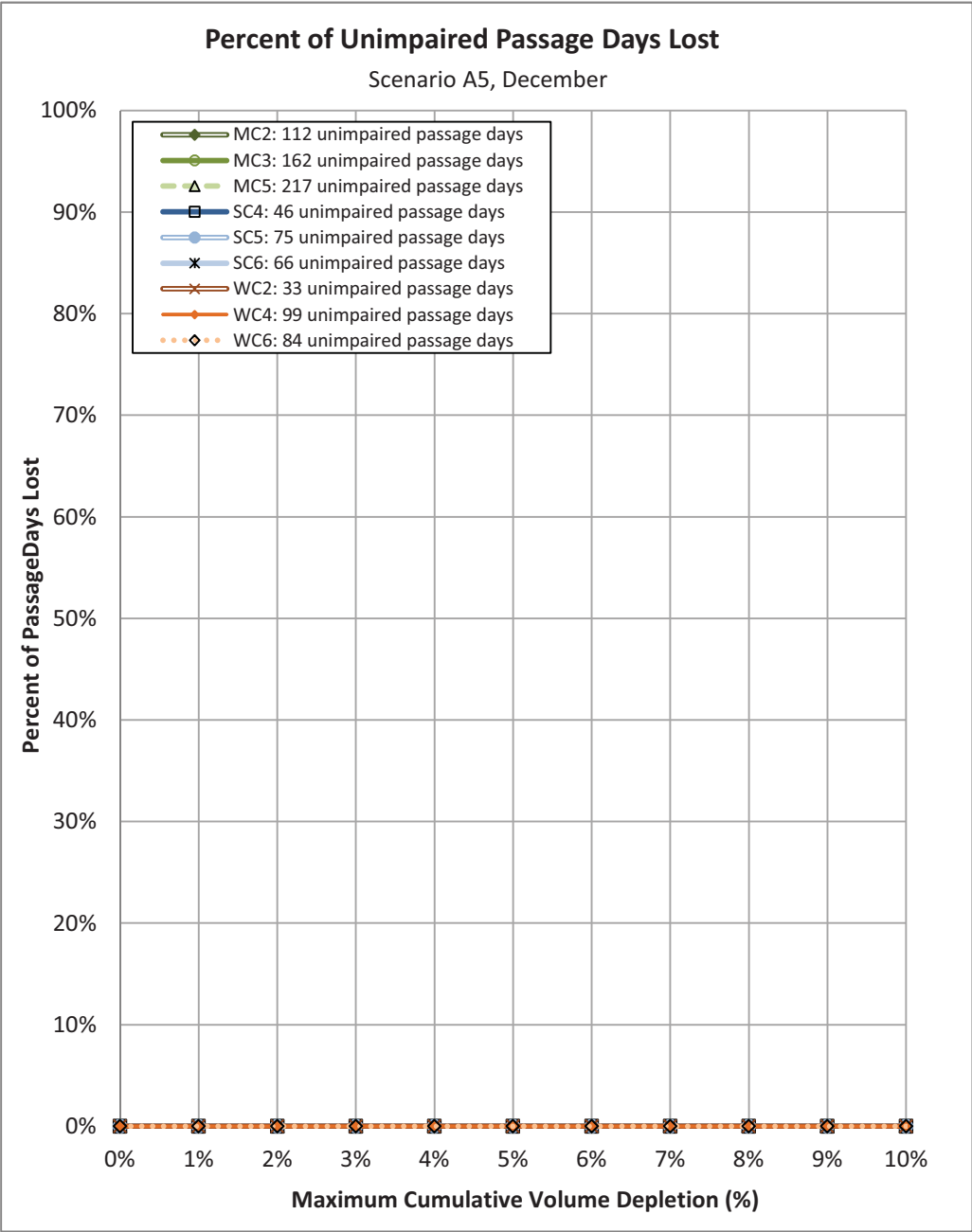
Scenario A5, December



Number of Unimpaired Passage Days Lost

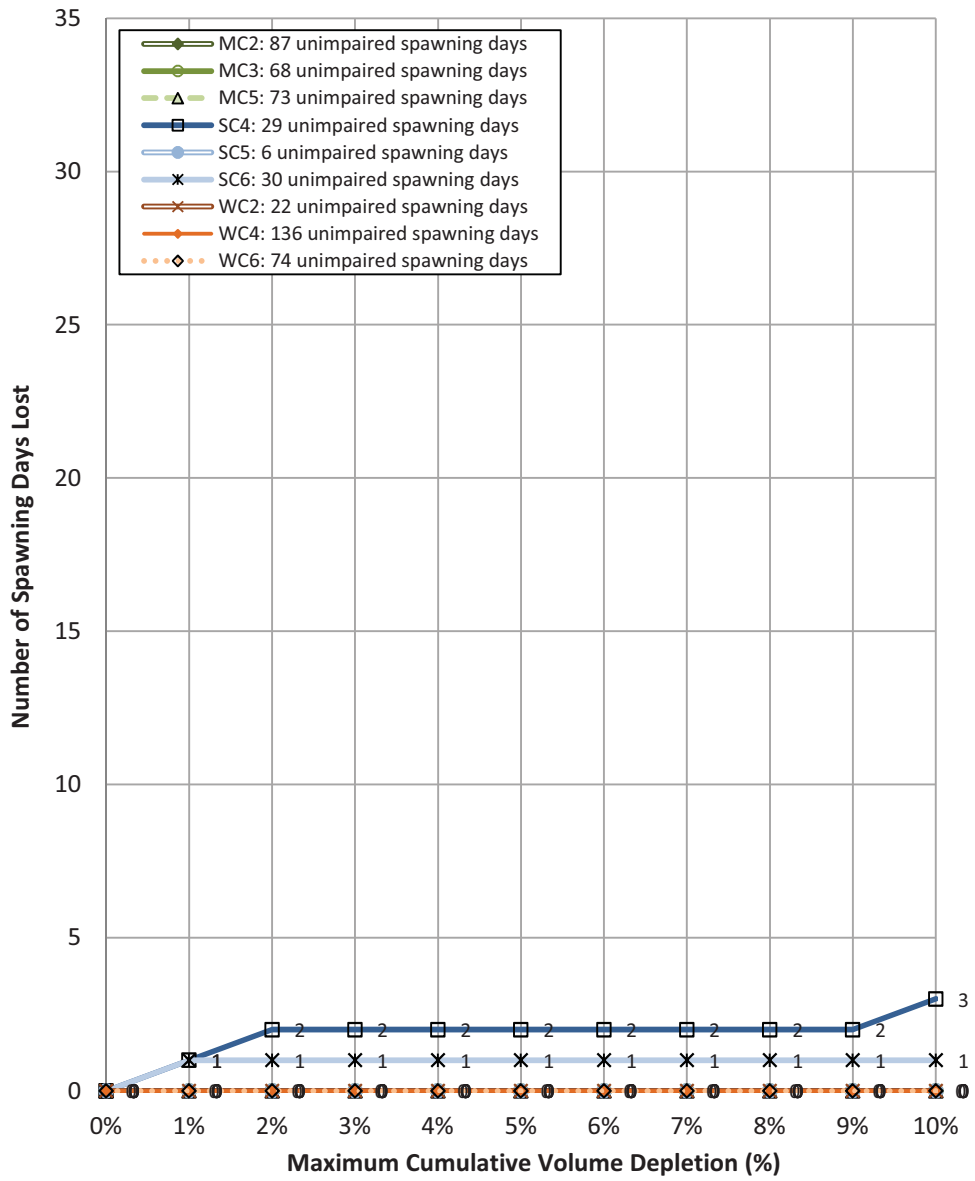
Scenario A5, December





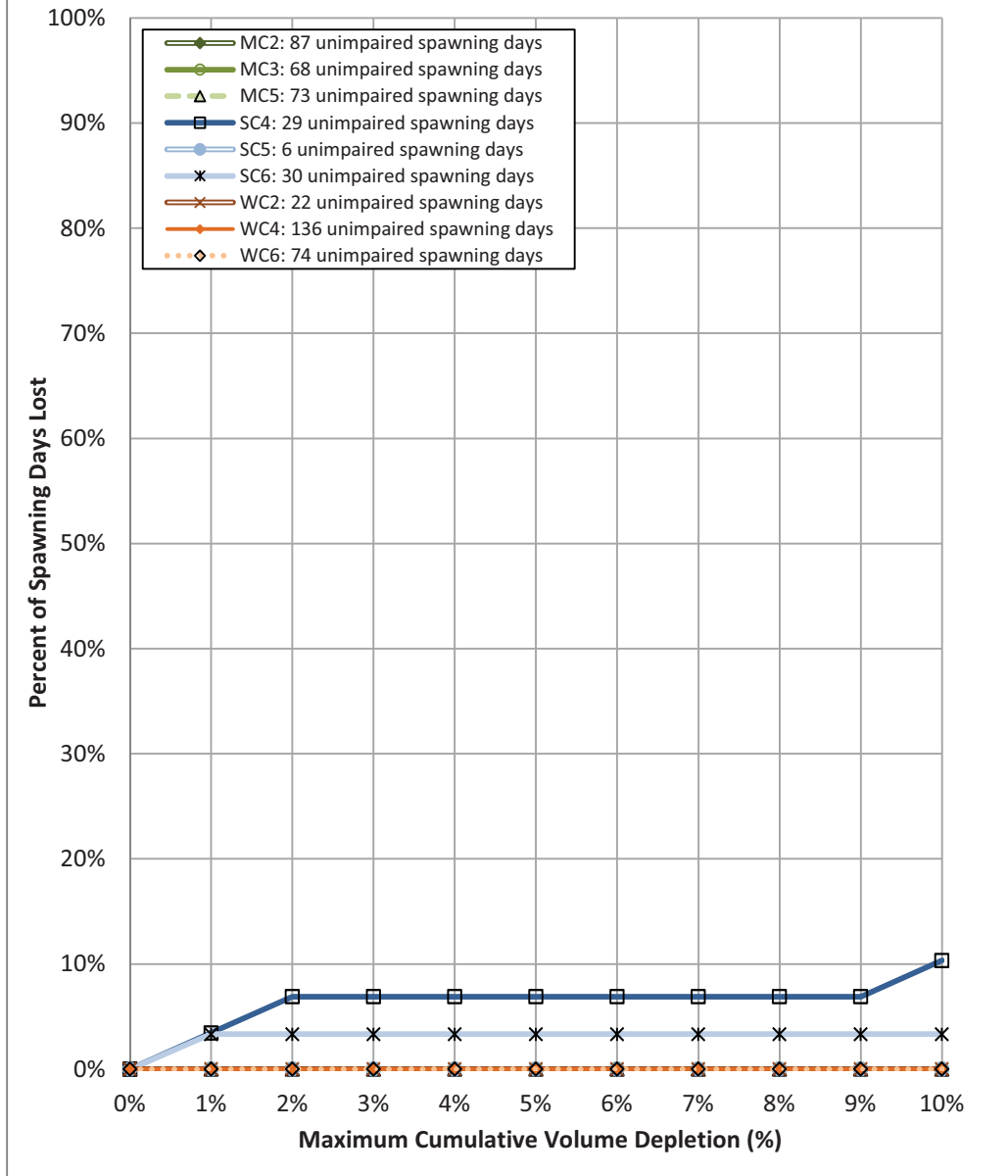
Number of Unimpaired Spawning Days Lost

Scenario A5, January



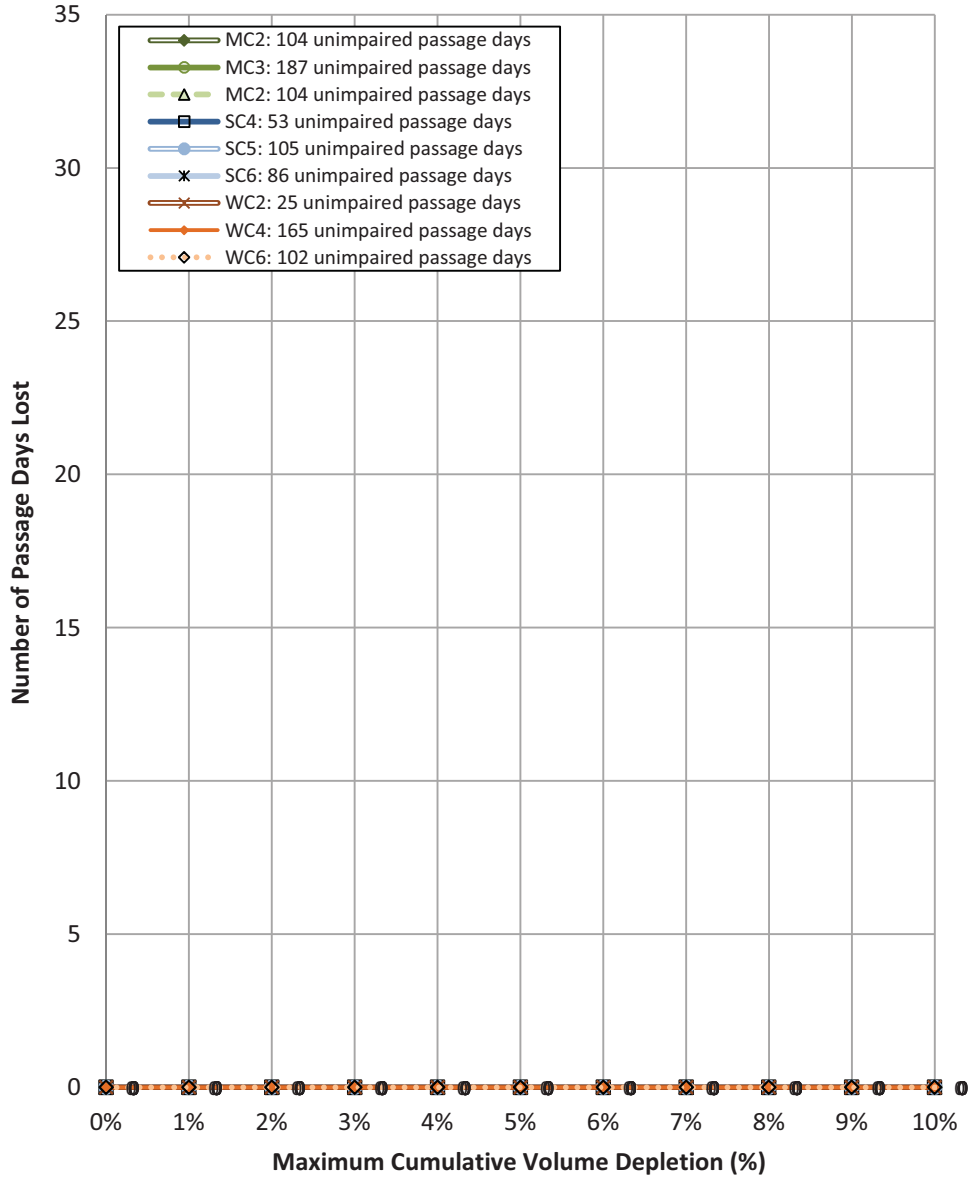
Percent of Unimpaired Spawning Days Lost

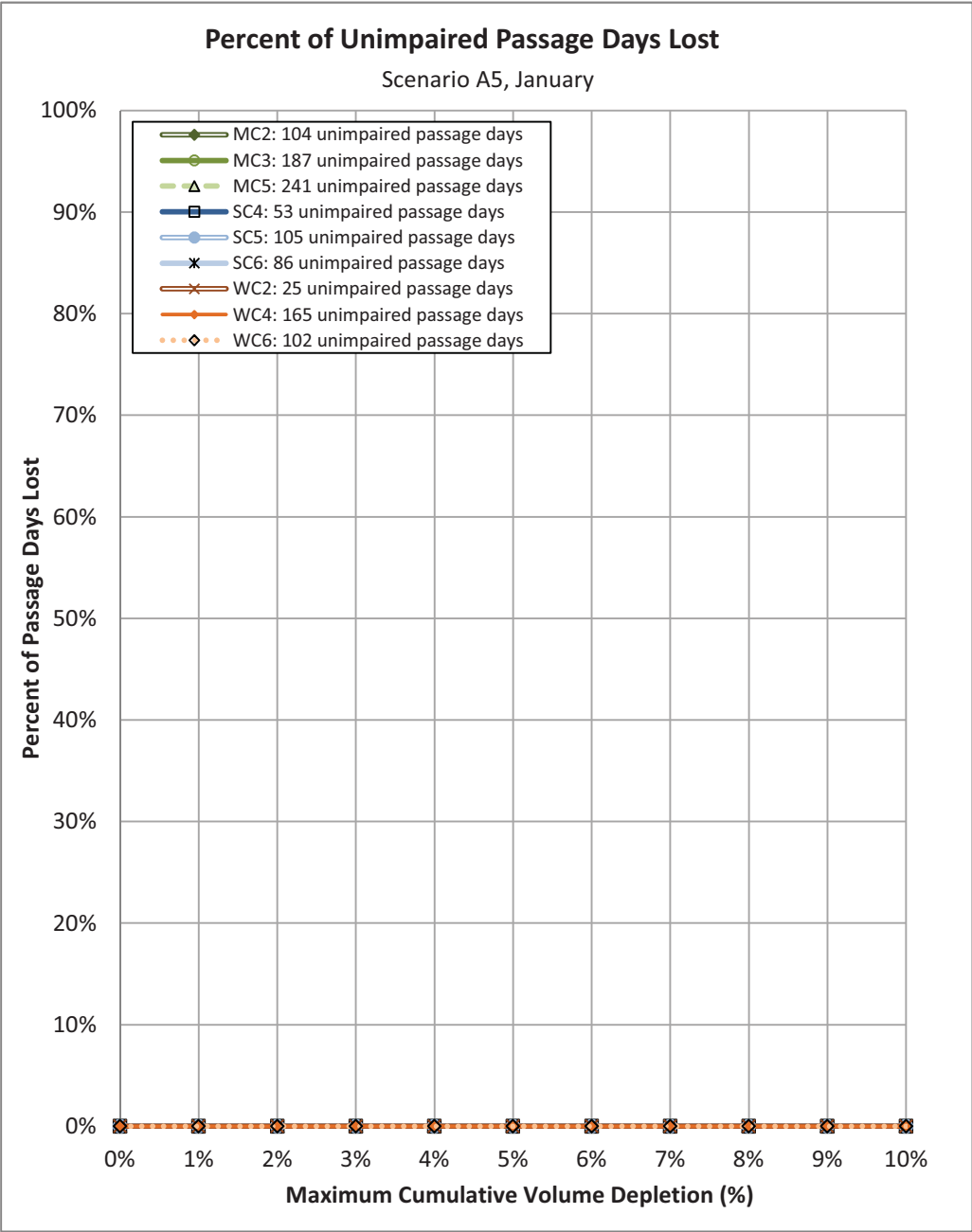
Scenario A5, January



Number of Unimpaired Passage Days Lost

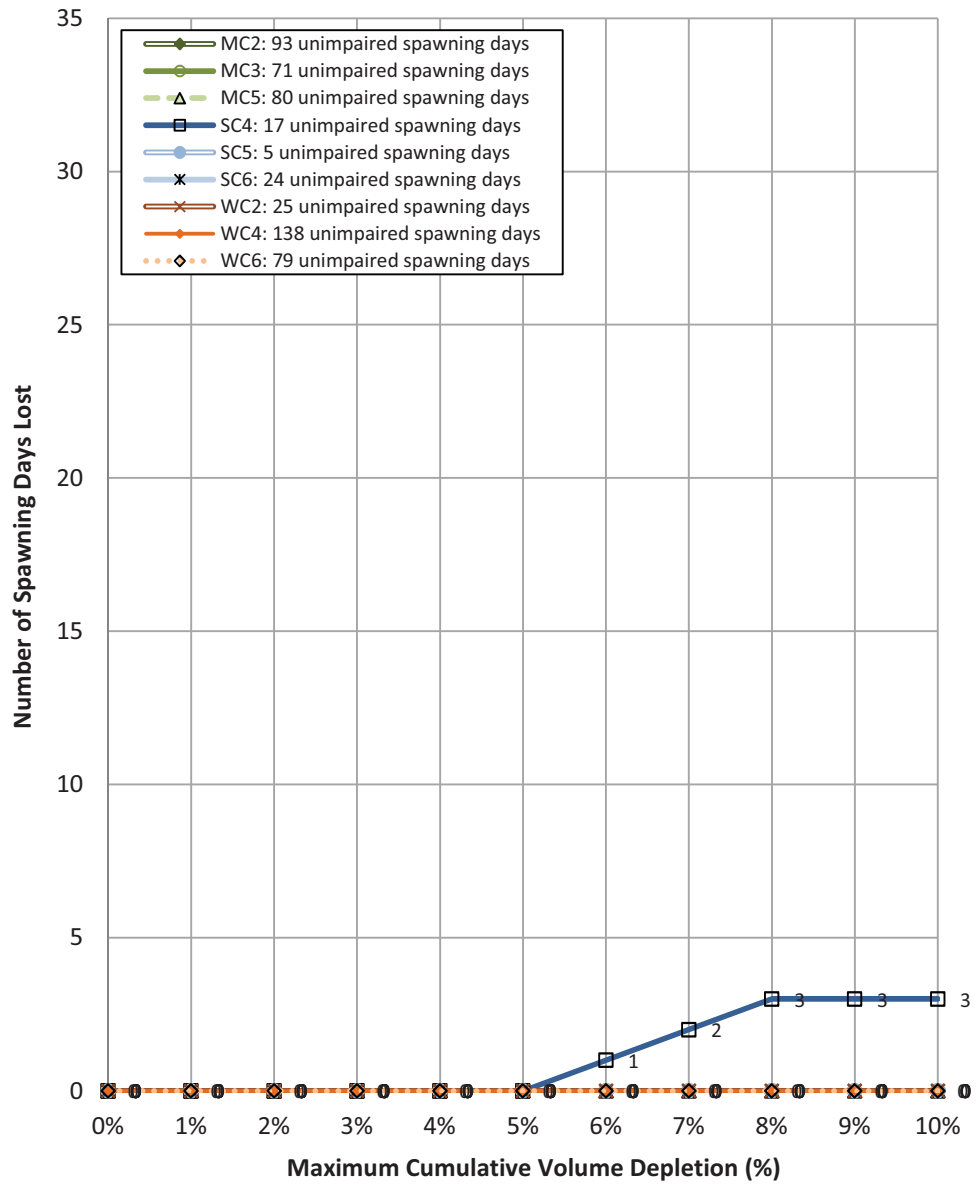
Scenario A5, January

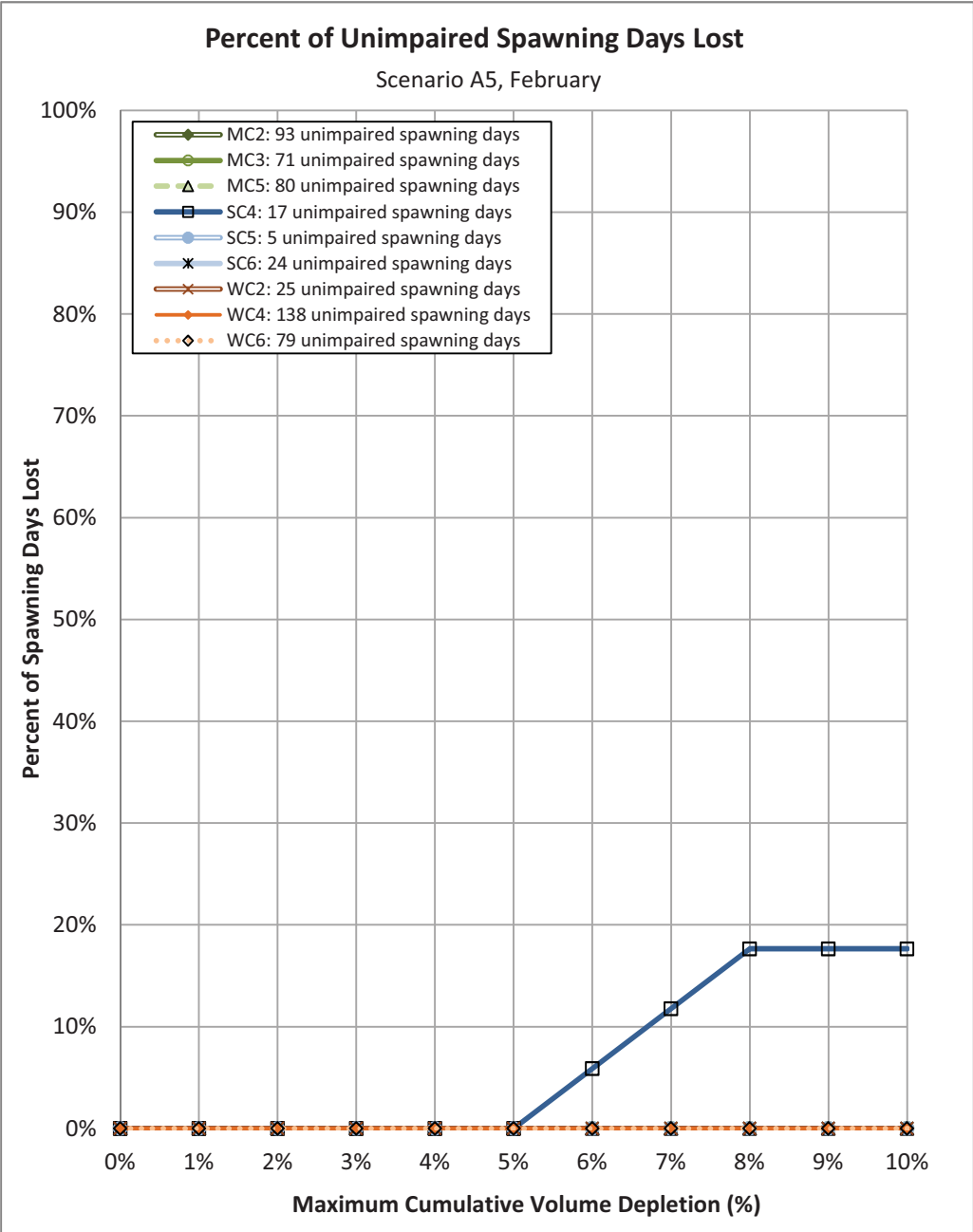




Number of Unimpaired Spawning Days Lost

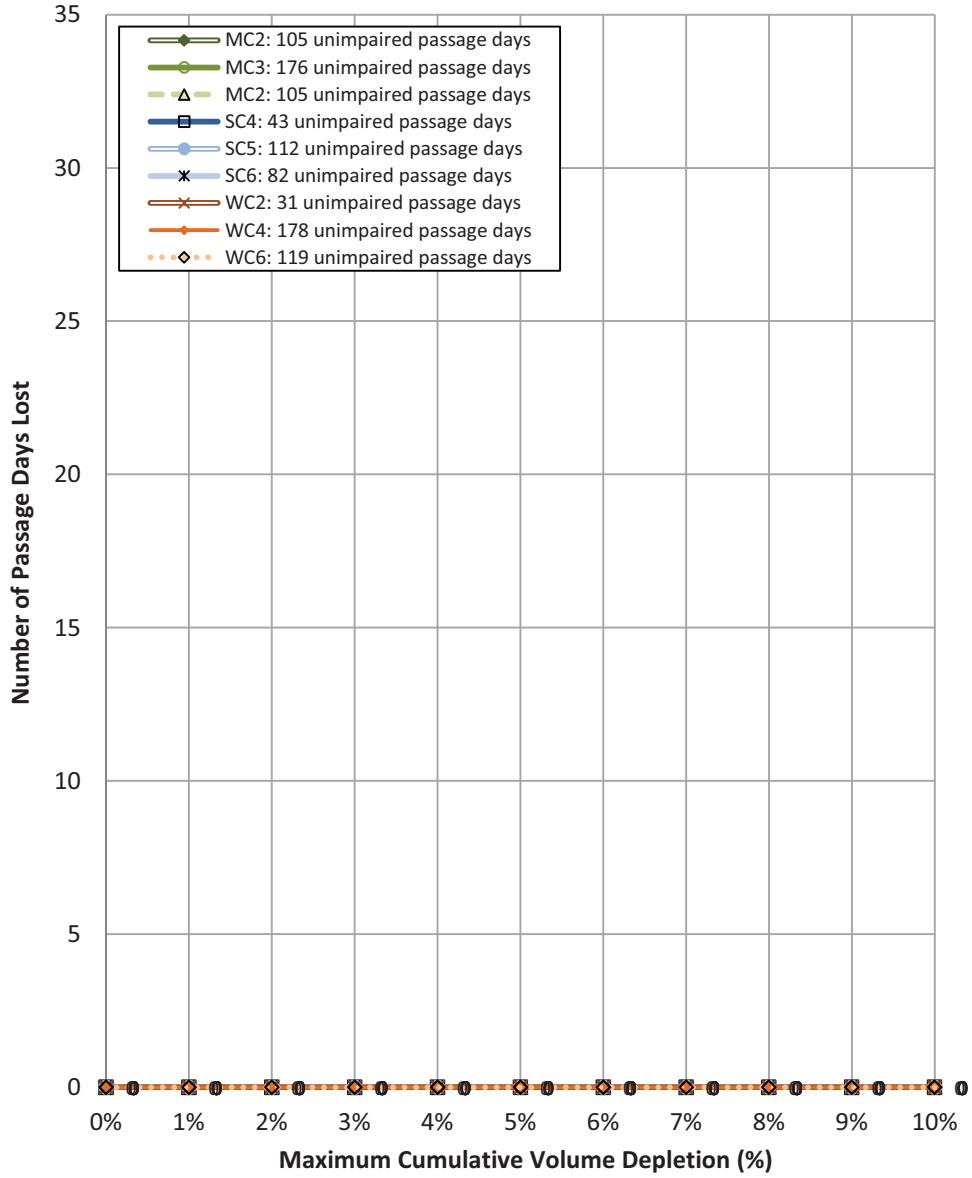
Scenario A5, February





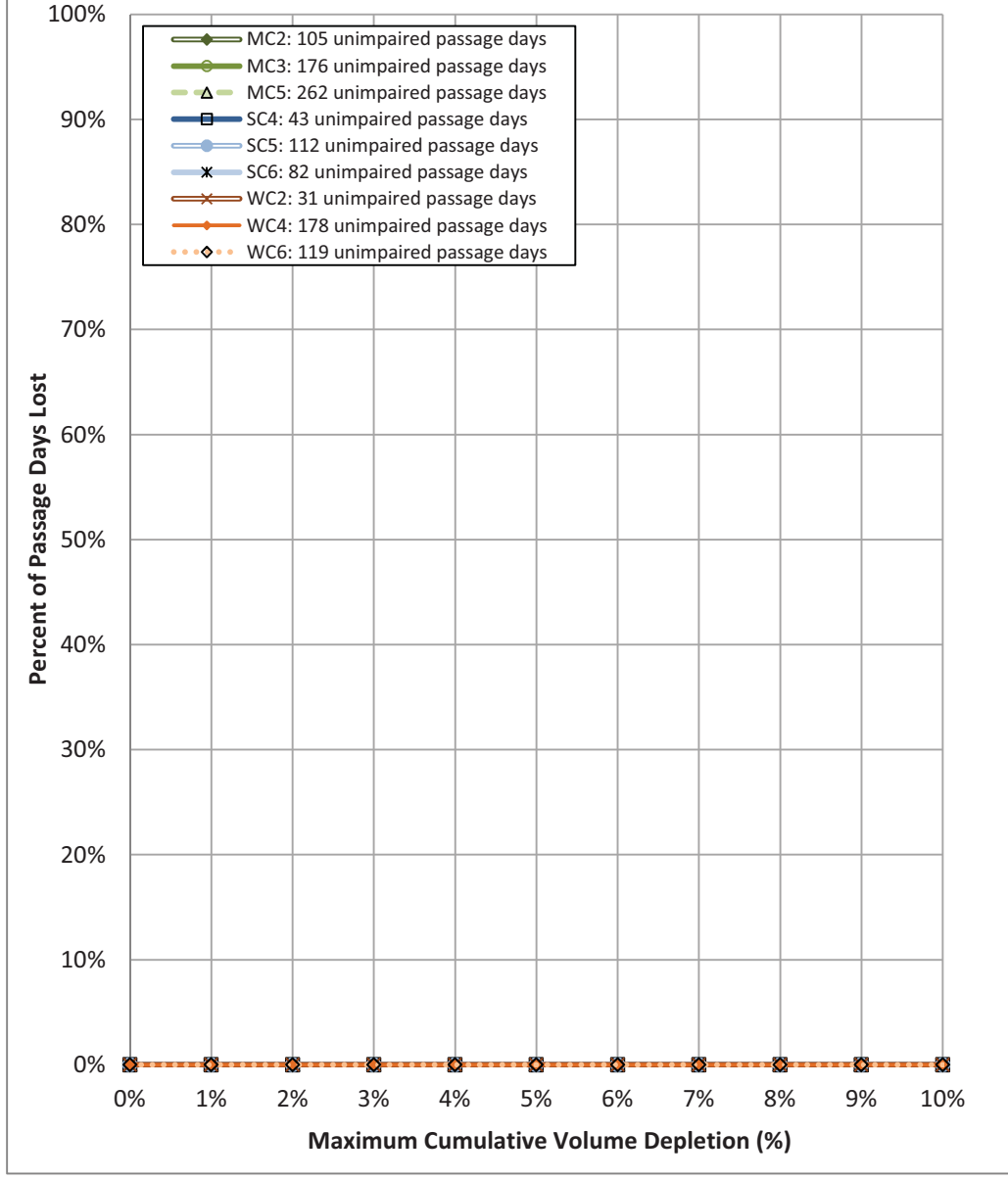
Number of Unimpaired Passage Days Lost

Scenario A5, February



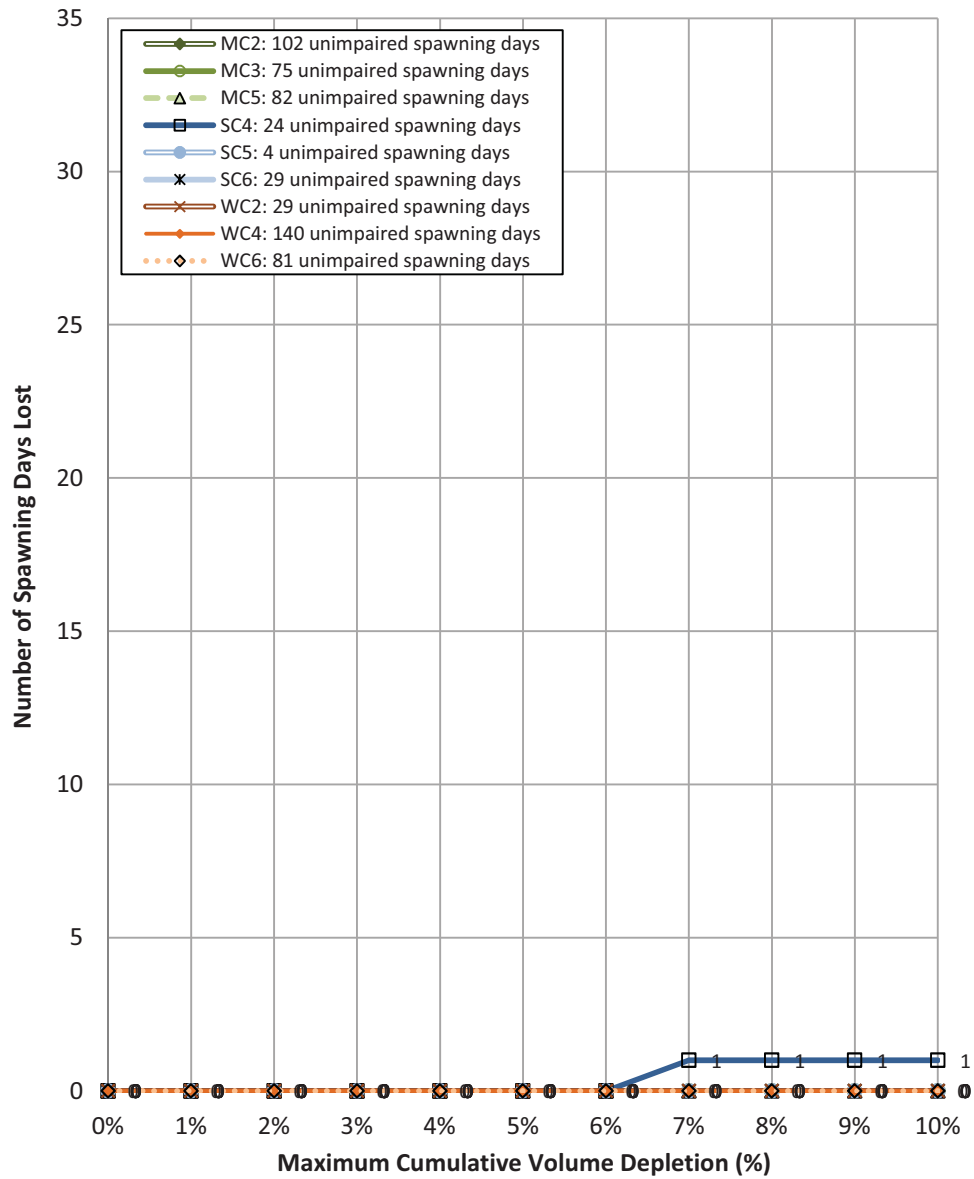
Percent of Unimpaired Passage Days Lost

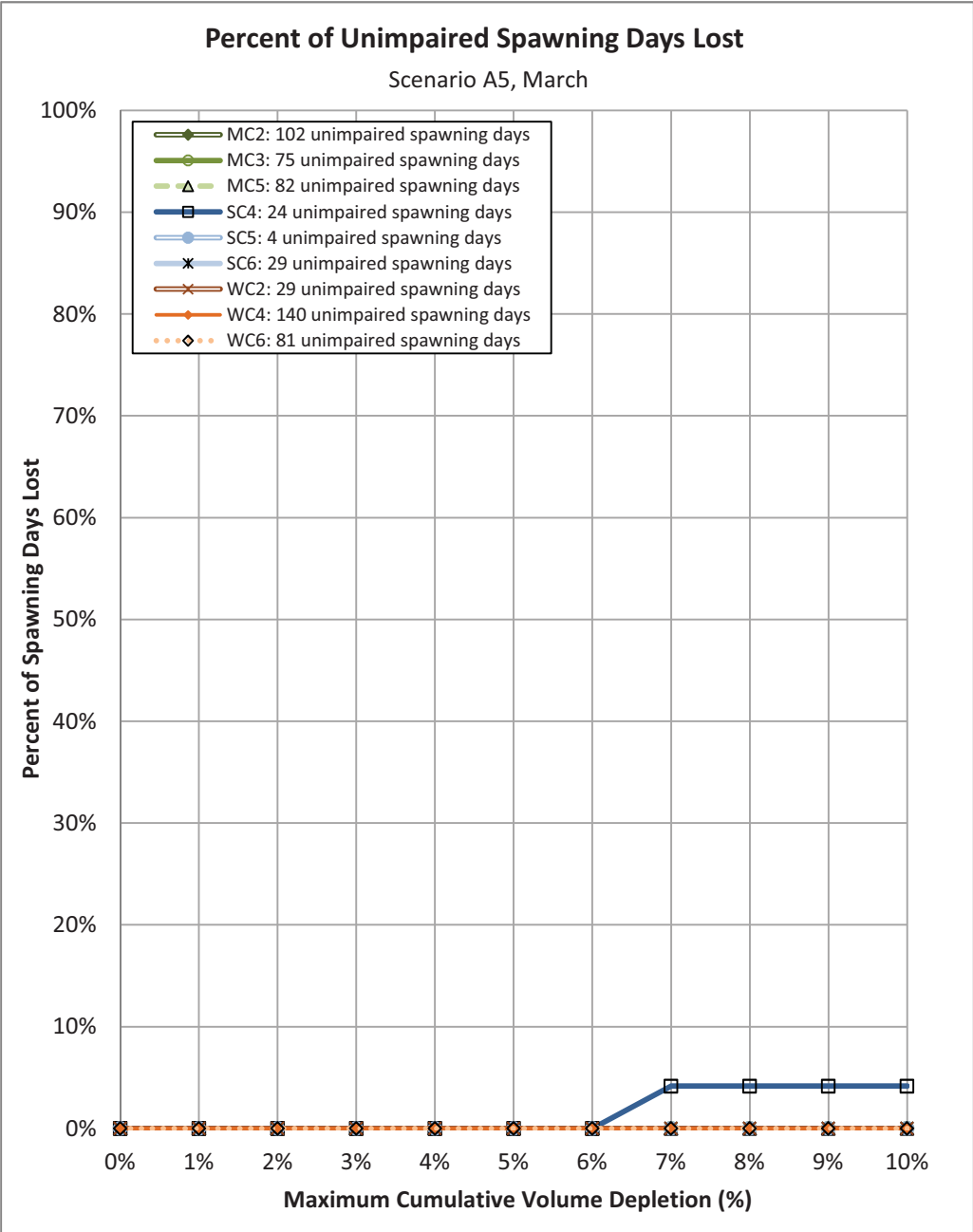
Scenario A5, February



Number of Unimpaired Spawning Days Lost

Scenario A5, March





Number of Unimpaired Passage Days Lost

Scenario A5, March

