WHOM\_SAM\_2022\_OM2.5\_10\_MP5.23\_23

Date: 02-Oct-2022 13.33

SSB (Mt)

| **25%** | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0.001** | **0.025** | **0.05** | **0.074** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 0.84 | 0.83 | 0.81 | 0.78 | 0.78 | 0.76 | 0.72 | 0.71 |
| MT | 1.35 | 1.21 | 1.12 | 1.01 | 1.00 | 0.93 | 0.87 | 0.82 |
| LT | 1.66 | 1.46 | 1.27 | 1.10 | 1.09 | 0.96 | 0.91 | 0.86 |

| **50%** | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0.001** | **0.025** | **0.05** | **0.074** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 0.92 | 0.90 | 0.88 | 0.86 | 0.86 | 0.85 | 0.84 | 0.82 |
| MT | 1.77 | 1.62 | 1.56 | 1.49 | 1.49 | 1.43 | 1.40 | 1.33 |
| LT | 2.17 | 1.81 | 1.52 | 1.30 | 1.30 | 1.14 | 1.06 | 0.96 |

| **75%** | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0.001** | **0.025** | **0.05** | **0.074** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 1.16 | 1.14 | 1.14 | 1.12 | 1.12 | 1.08 | 1.05 | 1.02 |
| MT | 2.01 | 1.87 | 1.78 | 1.70 | 1.70 | 1.64 | 1.51 | 1.46 |
| LT | 2.59 | 2.26 | 2.00 | 1.68 | 1.67 | 1.42 | 1.24 | 1.16 |

Yield (kt)

| **25%** | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0.001** | **0.025** | **0.05** | **0.074** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 1 | 11 | 21 | 28 | 28 | 28 | 28 | 29 |
| MT | 1 | 21 | 40 | 54 | 54 | 69 | 69 | 69 |
| LT | 2 | 38 | 80 | 98 | 99 | 112 | 117 | 124 |

| **Median** | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0.001** | **0.025** | **0.05** | **0.074** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 2 | 24 | 28 | 28 | 28 | 35 | 42 | 49 |
| MT | 2 | 41 | 59 | 69 | 69 | 73 | 85 | 96 |
| LT | 3 | 56 | 104 | 120 | 121 | 121 | 130 | 136 |

| **75%** | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0.001** | **0.025** | **0.05** | **0.074** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 7 | 28 | 39 | 51 | 52 | 61 | 68 | 74 |
| MT | 3 | 54 | 86 | 122 | 123 | 147 | 168 | 186 |
| LT | 3 | 64 | 108 | 133 | 134 | 139 | 151 | 148 |

IAV

| **25%** | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0.001** | **0.025** | **0.05** | **0.074** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 0.20 | 0.20 | 0.21 | 0.21 | 0.21 | 0.21 | 0.20 | 0.20 |
| MT | 0.17 | 0.16 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 |
| LT | 0.13 | 0.14 | 0.15 | 0.14 | 0.15 | 0.17 | 0.18 | 0.23 |

| **Median** | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0.001** | **0.025** | **0.05** | **0.074** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 0.42 | 0.36 | 0.37 | 0.39 | 0.38 | 0.33 | 0.30 | 0.28 |
| MT | 0.19 | 0.19 | 0.20 | 0.23 | 0.23 | 0.25 | 0.24 | 0.26 |
| LT | 0.16 | 0.16 | 0.19 | 0.20 | 0.20 | 0.21 | 0.23 | 0.28 |

| **75%** | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0.001** | **0.025** | **0.05** | **0.074** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 0.69 | 0.57 | 0.49 | 0.52 | 0.53 | 0.58 | 0.66 | 0.74 |
| MT | 0.23 | 0.22 | 0.30 | 0.53 | 0.53 | 0.77 | 0.73 | 0.80 |
| LT | 0.19 | 0.20 | 0.29 | 0.41 | 0.41 | 0.39 | 0.31 | 0.41 |

FBar

| **25%** | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0.001** | **0.025** | **0.05** | **0.074** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 0.000 | 0.008 | 0.014 | 0.019 | 0.019 | 0.020 | 0.021 | 0.023 |
| MT | 0.001 | 0.014 | 0.026 | 0.031 | 0.031 | 0.034 | 0.043 | 0.051 |
| LT | 0.001 | 0.019 | 0.034 | 0.048 | 0.048 | 0.068 | 0.073 | 0.084 |

| **Median** | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0.001** | **0.025** | **0.05** | **0.074** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 0.002 | 0.015 | 0.017 | 0.021 | 0.022 | 0.028 | 0.035 | 0.042 |
| MT | 0.001 | 0.018 | 0.029 | 0.041 | 0.042 | 0.057 | 0.066 | 0.073 |
| LT | 0.001 | 0.021 | 0.044 | 0.061 | 0.062 | 0.077 | 0.090 | 0.096 |

| **75%** | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0.001** | **0.025** | **0.05** | **0.074** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 0.004 | 0.018 | 0.030 | 0.047 | 0.047 | 0.060 | 0.071 | 0.078 |
| MT | 0.001 | 0.022 | 0.039 | 0.061 | 0.062 | 0.080 | 0.095 | 0.108 |
| LT | 0.001 | 0.023 | 0.047 | 0.063 | 0.064 | 0.081 | 0.097 | 0.107 |

Risk (Type3) to Blim (%)

| **mean** | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0.001** | **0.025** | **0.05** | **0.074** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 8 | 8 | 8 | 8 | 8 | 8 | 10 | 12 |
| MT | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 |
| LT | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 5 |

Risk (Type3) to Bpa (%)

| **mean** | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0.001** | **0.025** | **0.05** | **0.074** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 48 | 52 | 58 | 60 | 60 | 60 | 62 | 64 |
| MT | 4 | 10 | 16 | 22 | 22 | 24 | 24 | 26 |
| LT | 0 | 0 | 2 | 3 | 3 | 20 | 32 | 41 |

Extinction Risk (%)

| **mean** | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0.001** | **0.025** | **0.05** | **0.074** | **0.075** | **0.1** | **0.125** | **0.15** |
| ST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MT | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| LT | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Proportion Recovered Above Blim

| **Val** | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0.001** | **0.025** | **0.05** | **0.074** | **0.075** | **0.1** | **0.125** | **0.15** |
| 2021 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 |
| 2022 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 |
| 2023 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 |
| 2024 | 50 | 50 | 50 | 50 | 50 | 50 | 50.0 | 50.0 |
| 2025 | 50 | 50 | 50 | 50 | 50 | 50 | 50.0 | 50.0 |
| 2026 | 50 | 50 | 50 | 50 | 50 | 50 | 50.0 | 50.0 |
| 2027 | 50 | 50 | 50 | 50 | 50 | 50 | 50.0 | 50.0 |
| 2028 | 100 | 100 | 100 | 100 | 100 | 100 | 75.0 | 50.0 |
| 2029 | 100 | 100 | 100 | 100 | 100 | 100 | 100.0 | 100.0 |
| 2030 | 100 | 100 | 100 | 100 | 100 | 100 | 80.0 | 80.0 |
| 2031 | 100 | 100 | 100 | 100 | 100 | 100 | 80.0 | 80.0 |
| 2032 | 100 | 100 | 100 | 100 | 100 | 100 | 80.0 | 80.0 |
| 2033 | 100 | 100 | 100 | 100 | 100 | 100 | 100.0 | 100.0 |
| 2034 | 100 | 100 | 100 | 100 | 100 | 100 | 100.0 | 100.0 |
| 2035 | 100 | 100 | 100 | 100 | 100 | 100 | 100.0 | 100.0 |
| 2036 | 100 | 100 | 100 | 100 | 100 | 100 | 100.0 | 100.0 |
| 2037 | 100 | 100 | 100 | 100 | 100 | 100 | 100.0 | 100.0 |
| 2038 | 100 | 100 | 100 | 100 | 100 | 100 | 100.0 | 100.0 |
| 2039 | 100 | 100 | 100 | 100 | 100 | 100 | 100.0 | 100.0 |
| 2040 | 100 | 100 | 100 | 100 | 100 | 100 | 100.0 | 83.3 |
| 2041 | 100 | 100 | 100 | 100 | 100 | 100 | 100.0 | 71.4 |
| 2042 | 100 | 100 | 100 | 100 | 100 | 100 | 83.3 | 71.4 |
| 2043 | 100 | 100 | 100 | 100 | 100 | 100 | 83.3 | 71.4 |

Proportion Recovered Above Bpa

| **Val** | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Period/Ftgt** | **0.001** | **0.025** | **0.05** | **0.074** | **0.075** | **0.1** | **0.125** | **0.15** |
| 2021 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2022 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2023 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2024 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2025 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 |
| 2026 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 |
| 2027 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 | 11.1 | 11.1 |
| 2028 | 55.6 | 33.3 | 33.3 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2 |
| 2029 | 66.7 | 66.7 | 55.6 | 55.6 | 55.6 | 55.6 | 55.6 | 44.4 |
| 2030 | 77.8 | 77.8 | 55.6 | 55.6 | 55.6 | 55.6 | 55.6 | 55.6 |
| 2031 | 88.9 | 77.8 | 66.7 | 66.7 | 66.7 | 66.7 | 66.7 | 66.7 |
| 2032 | 88.9 | 77.8 | 77.8 | 66.7 | 66.7 | 66.7 | 66.7 | 66.7 |
| 2033 | 100.0 | 88.9 | 77.8 | 66.7 | 66.7 | 66.7 | 66.7 | 66.7 |
| 2034 | 100.0 | 100.0 | 88.9 | 77.8 | 77.8 | 77.8 | 77.8 | 66.7 |
| 2035 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 88.9 | 80.0 | 80.0 |
| 2036 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 88.9 | 80.0 | 80.0 |
| 2037 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 70.0 | 70.0 |
| 2038 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 70.0 | 60.0 |
| 2039 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 80.0 | 70.0 | 50.0 |
| 2040 | 100.0 | 100.0 | 88.9 | 88.9 | 88.9 | 80.0 | 40.0 | 30.0 |
| 2041 | 100.0 | 100.0 | 88.9 | 88.9 | 88.9 | 40.0 | 40.0 | 30.0 |
| 2042 | 100.0 | 100.0 | 88.9 | 88.9 | 88.9 | 40.0 | 40.0 | 30.0 |
| 2043 | 100.0 | 100.0 | 88.9 | 88.9 | 88.9 | 40.0 | 40.0 | 40.0 |

Settings used

| **class** | **desc** | **value** |
| --- | --- | --- |
| OM | code | OM2.5 |
| OM | desc | WGWIDE22\_sam |
| OM | IM |  |
| OM | SRR | SRR.WG22.SegReg\_Blim.exterm |
| OM | RecAR | TRUE |
| OM | maxRecRes1 | 3 |
| OM | maxRecRes2 | -3 |
| OM | BioYrs1 | 2012 |
| OM | BioYrs2 | 2021 |
| OM | BioConst | FALSE |
| OM | SelYrs1 | 2012 |
| OM | SelYrs2 | 2021 |
| OM | SelConst | FALSE |
| OM | Obs |  |
| OM | refPts.Fpa | 0.115 |
| OM | refPts.Flim | 0.161 |
| OM | refPts.Fmsy | 0.115 |
| OM | refPts.Bpa | 856540 |
| OM | refPts.Blim | 611814 |
| OM | refPts.MSYBtrigger | 856540 |
| OM | refPts.Bloss | 604476 |
| OM | pBlim | 0.05 |
| MP | code | MP5.23 |
| MP | desc | Double BP HCR |
| MP | xlab | Double BP IAVBtrig |
| MP | HCRName | DoubleBP |
| MP | F\_target1 | 0.001 |
| MP | F\_target2 | 0.025 |
| MP | F\_target3 | 0.05 |
| MP | F\_target4 | 0.075 |
| MP | F\_target5 | 0.1 |
| MP | F\_target6 | 0.125 |
| MP | F\_target7 | 0.15 |
| MP | F\_target8 | 0.074 |
| MP | B\_trigger | MSYBtrigger |
| MP | minTAC |  |
| MP | maxTAC |  |
| MP | TAC\_IAV1 | 0.2 |
| MP | TAC\_IAV2 | 0.2 |
| MP | Obs.cvF | 0.22 |
| MP | Obs.phiF | 0.03 |
| MP | Obs.cvSSB | 0.36 |
| MP | Obs.phiSSB | 0.51 |
| OTHER | niters | 10 |
| OTHER | nyr | 23 |
| OTHER | CU | 2021-2023 |
| OTHER | ST | 2024-2028 |
| OTHER | MT | 2029-2033 |
| OTHER | LT | 2034-2043 |
| OTHER | flstock | WHOM\_2022\_FLS\_WGWIDE.RData |
| OTHER | flstock\_sim | WHOM\_2022\_FLS\_converged.RData |