

APPENDIX G

Acronyms and Abbreviations Used in Appendix G

| | | | |
|---------|---|---------|--|
| BCA | San Joaquin River at Banta Carbona | OR1/OR2 | Old River at the junction with San Joaquin River (2 Receivers) |
| C18/C16 | San Joaquin River at Shipping Channel Markers (2 Receivers) | ORN | Old River North (2 Receivers) |
| CHP | Chipps Island | ORND | Old River North, Downstream Receiver |
| CHPe | Chipps Island East Receivers | ORNU | Old River North, Upstream Receiver |
| CHPw | Chipps Island West Receivers | ORS | Old River South (2 Receivers) |
| CVP | Central Valley Project Trash Rack | ORSD | Old River South, Downstream Receiver |
| CVPTank | Central Valley Project Holding Tank | ORSU | Old River South, Upstream Receiver |
| DF | San Joaquin River at Durham Ferry | RGD | Radial Gates at Clifton Court Forebay, Interior (2 Receivers) |
| MFE | San Joaquin River at Medford Island, East Receiver | RGU | Radial Gates at Clifton Court Forebay, Entrance Channel |
| MFW | San Joaquin River at Medford Island, West Receiver | SJ1/SJ2 | San Joaquin River at Lathrop (2 Receivers) |
| MOS | San Joaquin River at Mossdale | STK | San Joaquin River at Stockton |
| MRN | Middle River North (2 Receivers) | STN | San Joaquin River at Navy Bridge near Stockton |
| MRND | Middle River North, Downstream Receiver | STS | San Joaquin River at USGS Gauge at Stockton |
| MRNU | Middle River North, Upstream Receiver | TCN/TCS | San Joaquin River at Turner Cut (2 Receivers) |
| MRS | Middle River South | TMS | Threemile Slough (South Receiver) |
| OR | Old River | TMN | Threemile Slough (North Receiver) |

Appendix G, Table 1
Definitions of Parameters Used in the Release-Recapture Survival Model Shown in Chapter 5. Unique Parameters
Were Defined for each Release Site: DF = Durham Ferry, OR = Old River, STK = Stockton.

| Parameter | Release Site | Definition |
|-----------------|--------------|---|
| S_{A1} | DF | Probability of survival from Durham Ferry release site to Banta Carbona (BCA) |
| S_{A2} | DF | Probability of survival from Banta Carbona (BCA) to Mossdale (MOS) |
| S_{A3} | DF | Probability of survival from Mossdale (MOS) to Lathrop (SJ1/SJ2) or Old River (OR1/OR2) |
| S_{A4} | DF | Probability of survival from Lathrop (SJ1/SJ2) to Stockton USGS Gauge (STS) |
| S_{A5} | DF | Probability of survival from Stockton USGS Gauge (STS) to Stockton Navy Bridge (STN) |
| S_{A6} | DF, STK | Probability of survival from Stockton Navy Bridge (STN) to Shipping Channel Markers (C18/C16) or Turner Cut (TCN/TCS) |
| S_{B1} | DF, OR | Probability of survival from Old River (OR1/OR2) to Old River South (ORS) |
| Ψ_{A1} | DF | Probability of remaining in the San Joaquin River at the junction with Old River; = $1 - \Psi_{B1}$ |
| Ψ_{B1} | DF | Probability of entering Old River at the junction with the San Joaquin River; = $1 - \Psi_{A1}$ |
| Ψ_{A2} | DF, STK | Probability of remaining in the San Joaquin River at the junction with Turner Cut; = $1 - \Psi_{F2}$ |
| Ψ_{F2} | DF, STK | Probability of entering Turner Cut at the junction with the San Joaquin River; = $1 - \Psi_{A2}$ |
| Ψ_{B2} | DF, OR | Probability of remaining in Old River at the junction with Middle River; = $1 - \Psi_{C2}$ |
| Ψ_{C2} | DF, OR | Probability of entering Middle River at the junction with Old River; = $1 - \Psi_{B2}$ |
| $\phi_{A7,A8}$ | DF, STK | Joint probability of moving from C18/C16 toward MFE/MFW, and surviving from C18/C16 to MFE/MFW |
| $\phi_{A8,G1}$ | DF, STK | Joint probability of moving from MFE/MFW toward CHP, and surviving from MFE/MFW to CHP |
| $\phi_{B1,B2}$ | DF, OR | Joint probability of moving from OR1/OR2 toward ORN, and surviving from OR1/OR2 to ORN; = $S_{B1} \Psi_{B2}$ |
| $\phi_{B2,B3}$ | DF, OR | Joint probability of moving from ORS toward ORN, and surviving from ORS to ORN |
| $\phi_{B2,C2}$ | DF, OR | Joint probability of moving from ORS toward MRN, and surviving from ORS to MRN |
| $\phi_{B2,D10}$ | DF, OR | Joint probability of moving from ORS toward RGU when the gate was open, and surviving from ORS to RGU |
| $\phi_{B2,D1C}$ | DF, OR | Joint probability of moving from ORS toward RGU when the gate was closed, and surviving from ORS to RGU |
| $\phi_{B2,E1}$ | DF, OR | Joint probability of moving from ORS toward CVP, and surviving from ORS to CVP |
| $\phi_{B3,G1}$ | DF, OR | Joint probability of moving from ORN toward CHP, and surviving from ORN to CHP |
| $\phi_{C1,B3}$ | DF, OR | Joint probability of moving from MRS toward ORN, and surviving from MRS to ORN |
| $\phi_{C1,C2}$ | DF, OR | Joint probability of moving from MRS toward MRN, and surviving from MRS to MRN |
| $\phi_{C1,D10}$ | DF, OR | Joint probability of moving from MRS toward RGU when the gate was open, and surviving from MRS to RGU |
| $\phi_{C1,D1C}$ | DF, OR | Joint probability of moving from MRS toward RGU when the gate was closed, and surviving from MRS to RGU |
| $\phi_{C1,E1}$ | DF, OR | Joint probability of moving from MRS toward CVP, and surviving from MRS to CVP |
| $\phi_{C2,G1}$ | DF, OR | Joint probability of moving from MRN toward CHP, and surviving from MRN to CHP |
| $\phi_{D10,D2}$ | DF, OR | Joint probability of moving from RGU toward RGD, and surviving from RGU to RGD, conditional on arriving at RGU when the gate was open |
| $\phi_{D1C,D2}$ | DF, OR | Joint probability of moving from RGU toward RGD, and surviving from RGU to RGD, conditional on arriving at RGU when the gate was closed |
| $\phi_{D2,G1}$ | DF, OR | Joint probability of moving from RGD toward CHP, and surviving from RGU to CHP |
| $\phi_{E1,E2}$ | DF, OR | Joint probability of moving from CVP toward CVPtank, and surviving from CVP to CVPtank |
| $\phi_{E2,G1}$ | DF, OR | Joint probability of moving from CVPtank toward CHP, and surviving from CVPtank to CHP |
| $\phi_{F1,G1}$ | DF, STK | Joint probability of moving from TCN/TCS toward CHP, and surviving from TCN/TCS to CHP |
| $\phi_{OR,B1}$ | OR | Joint probability of moving from the Old River release site toward OR1/OR2, and surviving from the release site to OR1/OR2 |
| $\phi_{STK,A6}$ | STK | Joint probability of moving from the Stockton release site toward STN, and surviving from the release site to STN |
| P_{A2} | DF | Conditional probability of detection at BCA |
| P_{A3} | DF | Conditional probability of detection at MOS |
| P_{A4} | DF | Conditional probability of detection at SJ1/SJ2 |
| P_{A5} | DF | Conditional probability of detection at STS |
| P_{A6} | DF, STK | Conditional probability of detection at STN |
| P_{A7a} | DF, STK | Conditional probability of detection at C18 |
| P_{A7b} | DF, STK | Conditional probability of detection at C16 |
| P_{A8a} | DF, STK | Conditional probability of detection at MFE |
| P_{A8b} | DF, STK | Conditional probability of detection at MFW |
| P_{B1} | DF, OR | Conditional probability of detection at OR1/OR2 |
| P_{B2a} | DF, OR | Conditional probability of detection at ORSU |
| P_{B2b} | DF, OR | Conditional probability of detection at ORSD |
| P_{B3a} | DF, OR | Conditional probability of detection at ORNU |
| P_{B3b} | DF, OR | Conditional probability of detection at ORND |
| P_{C1} | DF, OR | Conditional probability of detection at MRS |
| P_{C2a} | DF, OR | Conditional probability of detection at MRNU |
| P_{C2b} | DF, OR | Conditional probability of detection at MRND |
| P_{D1} | DF, OR | Conditional probability of detection at RGU |
| P_{E1} | DF, OR | Conditional probability of detection at CVP |
| P_{F1a} | DF, STK | Conditional probability of detection at TCN |
| P_{F1b} | DF, STK | Conditional probability of detection at TCS |
| P_{G1a} | DF, OR, STK | Conditional probability of detection at CHPe |
| P_{G1b} | DF, OR, STK | Conditional probability of detection at CHPw |

Appendix G, Table 2
Parameter Estimates (standard errors in parentheses) for Tagged Juvenile Chinook Salmon Released in 2010, Excluding Predator-type Detections. Parameters Without Standard Errors Were Estimated at Fixed Values in the Model. Estimates of Parameters for Multiple Release Sites are Weighted Averages of the Site-specific Estimates. Population-level Estimates are Weighted Averages of Release Group Estimates. Some Parameters Were Not Estimable Because of Sparse Data. Release Sites are Defined as: DF = Durham Ferry, OR = Old River, STK = Stockton.

| Parameter | Release Site | Release Occasion | | | | | | | Population Estimate |
|---------------------|--------------|------------------|-------------|-------------|-------------|-------------|-------------|--------------------------|---------------------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | |
| S _{A1} | DF | 0.97 (0.02) | 1.00 | 0.97 (0.02) | 1.00 | 1.00 | 1.00 | 0.98 (0.02) | 0.99 (0.00) |
| S _{A2} | DF | 0.91 (0.03) | 1.00 | 0.95 (0.03) | 0.96 (0.02) | 0.97 (0.02) | 0.97 (0.02) | 0.88 (0.04) | 0.95 (0.01) |
| S _{A3} | DF | 0.92 (0.03) | 0.97 (0.02) | 0.91 (0.03) | 0.84 (0.05) | 0.96 (0.02) | 0.89 (0.04) | 0.90 (0.04) | 0.91 (0.01) |
| S _{A4} | DF | 0.93 (0.05) | 0.91 (0.05) | 0.79 (0.08) | 0.83 (0.07) | 0.93 (0.05) | 0.82 (0.07) | 0.72 (0.08) | 0.85 (0.02) |
| S _{A5} | DF | 1.03 (0.09) | 0.96 (0.04) | 0.90 (0.07) | 0.95 (0.07) | 1.00 | 0.91 (0.06) | 0.92 (0.06) | 0.95 (0.02) |
| S _{A6} | DF, STK | 0.52 (0.07) | 0.47 (0.07) | 0.24 (0.06) | 0.37 (0.07) | 0.55 (0.06) | 0.16 (0.05) | 0.59 (0.07) | 0.41 (0.02) |
| S _{B1} | DF, OR | | | | | | | | |
| ψ _{A1} | DF | 0.48 (0.06) | 0.44 (0.06) | 0.39 (0.06) | 0.52 (0.07) | 0.45 (0.06) | 0.43 (0.06) | 0.59 (0.07) | 0.47 (0.02) |
| ψ _{B1} | DF | 0.52 (0.06) | 0.56 (0.06) | 0.61 (0.06) | 0.48 (0.07) | 0.55 (0.06) | 0.57 (0.06) | 0.41 (0.07) | 0.53 (0.02) |
| ψ _{A2} | DF, STK | 0.91 (0.05) | 0.97 (0.03) | 1.00 | 0.95 (0.05) | 0.85 (0.06) | 0.75 (0.15) | 0.93 (0.05) | 0.91 (0.03) |
| ψ _{F2} | DF, STK | 0.09 (0.05) | 0.03 (0.03) | 0.00 | 0.05 (0.05) | 0.15 (0.06) | 0.25 (0.15) | 0.07 (0.05) | 0.09 (0.03) |
| ψ _{B2} | DF, OR | | | | | | | | |
| ψ _{C2} | DF, OR | | | | | | | | |
| φ _{A7,A8} | DF, STK | 0.65 (0.09) | 0.45 (0.09) | 0.67 (0.14) | 0.35 (0.11) | 0.35 (0.09) | 0.33 (0.19) | 0.54 (0.10) | 0.48 (0.05) |
| φ _{A8,G1} | DF, STK | 0.25 (0.10) | 0.08 (0.07) | 0.13 (0.12) | 0.43 (0.19) | 0.40 (0.16) | 0.51 (0.36) | 0.48 (0.12) | 0.32 (0.07) |
| φ _{B1,B2} | DF | 0.90 (0.05) | 0.97 (0.03) | 0.89 (0.05) | 0.85 (0.07) | 0.94 (0.04) | 0.86 (0.06) | 0.91 (0.06) | 0.90 (0.02) |
| φ _{B2,B3} | DF, OR | 0.33 (0.06) | 0.30 (0.05) | 0.27 (0.05) | 0.04 (0.02) | 0.33 (0.06) | 0.31 (0.06) | 0.18 (0.05) | 0.25 (0.02) |
| φ _{B2,C2} | DF, OR | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| φ _{B2,D10} | DF, OR | 0.33 (0.06) | 0.27 (0.05) | 0.18 (0.05) | 0.30 (0.06) | 0.27 (0.08) | 0.09 (0.04) | 0.00 ^a | 0.21 (0.02) |
| φ _{B2,D1C} | DF, OR | 0.13 (0.04) | 0.08 (0.03) | 0.15 (0.04) | 0.16 (0.05) | 0.14 (0.05) | 0.04 (0.02) | 0.08 ^a (0.04) | 0.11 (0.02) |
| φ _{B2,E1} | DF, OR | | 0.28 (0.05) | 0.33 (0.06) | 0.29 (0.11) | 0.23 (0.06) | 0.45 (0.38) | 0.75 (0.26) | 0.38 (0.08) |
| λ _{B2,E1} | DF, OR | 0.16 (0.05) | | | | | | | |
| φ _{B3,G1} | DF, OR | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 (0.05) | 0.00 | 0.00 | 0.01 (0.01) |
| φ _{C1,B3} | DF, OR | | | | | | | | |
| φ _{C1,C2} | DF, OR | | | | | | | | |
| φ _{C1,D10} | DF, OR | | | | | | | | |
| φ _{C1,D1C} | DF, OR | | | | | | | | |
| φ _{C1,E1} | DF, OR | | | | | | | | |
| φ _{C2,G1} | DF, OR | | | | | | | | |
| φ _{D10,D2} | DF, OR | 0.52 (0.11) | 0.45 (0.11) | 0.17 (0.11) | 0.35 (0.12) | 0.33 (0.14) | 0.33 (0.19) | | 0.36 (0.05) |
| φ _{D1C,D2} | DF, OR | 0.37 (0.17) | 0.33 (0.19) | 0.60 (0.16) | 0.11 (0.10) | 0.5 (0.20) | 0.00 | 0.00 | 0.28 (0.05) |
| φ _{D2,G1} | DF, OR | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| φ _{E1,E2} | DF, OR | 0.00 | 0.19 (0.09) | 0.23 (0.09) | 0.60 (0.21) | 0.55 (0.15) | 0.50 (0.35) | 0.27 (0.11) | 0.33 (0.07) |
| φ _{E2,G1} | DF, OR | | 0.50 (0.25) | 0.20 (0.18) | 0.33 (0.27) | 1.00 | 1.00 | 0.90 (0.10) | 0.65 (0.07) |
| φ _{F1,G1} | DF, STK | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| φ _{OR,B1} | OR | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.98 (0.03) | 0.97 (0.03) | 0.99 (0.01) |
| φ _{STK,A6} | STK | 1.07 (0.08) | 0.99 (0.09) | 0.95 (0.04) | 0.95 (0.06) | 1.00 | 0.86 (0.06) | 0.82 (0.07) | 0.95 (0.02) |
| P _{A2} | DF | 0.95 (0.03) | 0.88 (0.04) | 0.88 (0.04) | 0.93 (0.03) | 0.97 (0.02) | 0.96 (0.02) | 0.95 (0.03) | 0.93 (0.01) |
| P _{A3} | DF | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| P _{A4} | DF | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| P _{A5} | DF | 1.00 | 0.96 (0.04) | 1.00 | 1.00 | 1.00 | 1.00 | 0.95 (0.05) | 0.99 (0.01) |
| P _{A6} | DF, STK | 0.71 (0.08) | 0.76 (0.10) | 1.00 | 0.95 (0.05) | 0.98 (0.02) | 1.00 | 0.96 (0.04) | 0.91 (0.02) |
| P _{A7a} | DF, STK | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| P _{A7b} | DF, STK | 0.97 (0.03) | 0.97 (0.03) | 0.92 (0.08) | 0.95 (0.05) | 0.86 (0.06) | 0.83 (0.15) | 1.00 | 0.93 (0.03) |
| P _{A8a} | DF, STK | 1.00 | 1.00 | 1.00 | 1.00 | 0.89 (0.11) | 1.00 | 0.92 (0.08) | 0.97 (0.02) |
| P _{A8b} | DF, STK | 1.00 | 1.00 | 0.87 (0.12) | 0.82 (0.08) | 0.79 (0.13) | 1.00 | 0.84 (0.10) | 0.90 (0.03) |
| P _{B1} | DF, OR | 0.98 (0.02) | 0.99 (0.01) | 1.00 | 1.00 | 1.00 | 0.98 (0.02) | 1.00 | 0.99 (0.00) |
| P _{B2a} | DF, OR | 0.98 (0.02) | 1.00 | 0.99 (0.01) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 (0.00) |
| P _{B2b} | DF, OR | 0.00 | 0.90 (0.03) | 1.00 | 0.47 (0.06) | 0.37 (0.06) | 0.00 | 0.00 | 0.40 (0.01) |
| P _{B3a} | DF, OR | 1.00 | 0.86 (0.07) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.98 (0.01) |
| P _{B3b} | DF, OR | 0.90 (0.06) | 0.95 (0.05) | 0.60 (0.15) | 1.00 | 0.67 (0.10) | 0.40 (0.11) | 0.67 (0.16) | 0.74 (0.04) |
| P _{C1} | DF, OR | | | | | | | | |
| P _{C2a} | DF, OR | | | | | | | | |
| P _{C2b} | DF, OR | | | | | | | | |
| P _{D1} | DF, OR | 1.00 | 1.00 | 1.00 | 1.00 | 0.70 (0.14) | 1.00 | 1.00 ^a | 0.96 (0.02) |
| P _{E1} | DF, OR | | 1.00 | 1.00 | 0.30 (0.14) | 0.75 (0.15) | 0.14 (0.13) | 0.40 (0.15) | 0.60 (0.05) |
| P _{F1a} | DF, STK | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 (0.00) |
| P _{F1b} | DF, STK | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 (0.00) |
| P _{G1a} | DF, OR, STK | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 (0.00) |
| P _{G1b} | DF, OR, STK | 1.00 | 1.00 | 1.00 | 1.00 | 0.92 (0.07) | 0.75 (0.15) | 1.00 | 0.95 (0.02) |

a = Under assumption that P_{D1a0=1}

Appendix G, Table 3
Parameter Estimates (standard errors in parentheses) for Tagged Juvenile Chinook Salmon Released in 2010, Including Predator-type Detections. Parameters Without Standard Errors Were Estimated at Fixed Values in the Model. Estimates of Parameters for Multiple Release Sites are Weighted Averages of the Site-specific Estimates. Population-level Estimates are Weighted Averages of Release Group Estimates. Some Parameters Were Not Estimable Because of Sparse Data. Release Sites are Defined as: DF = Durham Ferry, OR = Old River, STK = Stockton.

| Parameter | Release Site | Release Occasion | | | | | | | Population Estimate |
|---------------------|--------------|------------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | |
| S _{A1} | DF | 0.99 (0.01) | 1.00 | 1.00 (0.01) | 1.00 | 1.00 | 1.00 | 1.00 (0.02) | 1.00 (0.00) |
| S _{A2} | DF | 0.93 (0.03) | 1.00 | 0.94 (0.03) | 0.96 (0.02) | 0.97 (0.02) | 0.99 (0.01) | 0.86 (0.04) | 0.95 (0.01) |
| S _{A3} | DF | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| S _{A4} | DF | 0.97 (0.03) | 0.91 (0.05) | 0.92 (0.05) | 0.89 (0.05) | 0.94 (0.04) | 0.87 (0.05) | 0.78 (0.07) | 0.90 (0.02) |
| S _{A5} | DF | 0.97 (0.07) | 1.00 | 0.99 (0.05) | 0.95 (0.04) | 1.00 | 0.97 (0.03) | 0.99 (0.04) | 0.98 (0.02) |
| S _{A6} | DF, STK | 0.68 (0.07) | 0.69 (0.06) | 0.54 (0.07) | 0.70 (0.06) | 0.82 (0.05) | 0.35 (0.06) | 0.71 (0.06) | 0.64 (0.02) |
| S _{B1} | DF, OR | | | | | | | | |
| ψ _{A1} | DF | 0.50 (0.06) | 0.43 (0.06) | 0.38 (0.06) | 0.55 (0.06) | 0.47 (0.06) | 0.49 (0.06) | 0.60 (0.06) | 0.49 (0.02) |
| ψ _{B1} | DF | 0.50 (0.06) | 0.57 (0.06) | 0.62 (0.06) | 0.45 (0.06) | 0.53 (0.06) | 0.51 (0.06) | 0.40 (0.06) | 0.51 (0.02) |
| ψ _{A2} | DF, STK | 0.85 (0.05) | 0.96 (0.04) | 0.94 (0.04) | 0.78 (0.06) | 0.85 (0.05) | 0.82 (0.08) | 0.90 (0.05) | 0.87 (0.02) |
| ψ _{F2} | DF, STK | 0.15 (0.05) | 0.04 (0.04) | 0.06 (0.04) | 0.22 (0.06) | 0.15 (0.05) | 0.18 (0.08) | 0.10 (0.05) | 0.13 (0.02) |
| ψ _{B2} | DF, OR | | | | | | | | |
| ψ _{C2} | DF, OR | | | | | | | | |
| φ _{A7,A8} | DF, STK | 0.63 (0.08) | 0.58 (0.07) | 0.72 (0.08) | 0.62 (0.08) | 0.62 (0.07) | 0.73 (0.11) | 0.51 (0.08) | 0.63 (0.03) |
| φ _{A8,G1} | DF, STK | 0.32 (0.09) | 0.04 (0.04) | 0.35 (0.11) | 0.47 (0.11) | 0.44 (0.10) | 0.47 (0.14) | 0.48 (0.12) | 0.36 (0.04) |
| φ _{B1,B2} | DF | 0.94 (0.04) | 0.98 (0.02) | 0.93 (0.04) | 0.93 (0.05) | 1.00 | 1.00 | 0.96 (0.04) | 0.96 (0.01) |
| φ _{B2,B3} | DF, OR | 0.36 (0.06) | 0.24 (0.05) | 0.18 (0.05) | 0.11 (0.04) | 0.19 (0.05) | 0.21 (0.05) | 0.04 (0.03) | 0.19 (0.02) |
| φ _{B2,C2} | DF, OR | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| φ _{B2,D1} | DF, OR | 0.35 (0.06) | 0.38 (0.06) | 0.37 (0.06) | 0.45 (0.06) | 0.39 (0.08) | 0.24 (0.05) | 0.00 | 0.31 (0.02) |
| φ _{B2,E1} | DF, OR | 0.27 (0.06) | 0.38 (0.06) | 0.44 (0.13) | | 0.51 (0.11) | 0.98 (0.58) | 1.12 (0.26) | 0.61 (0.11) |
| φ _{B2,E1} | | | | | 0.19 (0.05) | | | | |
| φ _{B3,G1} | DF, OR | 0.00 | 0.00 | 0.00 | 0.15 (0.14) | 0.08 (0.08) | 0.13 (0.09) | 0.00 | 0.05 (0.03) |
| φ _{C1,B3} | DF, OR | | | | | | | | |
| φ _{C1,C2} | DF, OR | | | | | | | | |
| φ _{C1,D1} | DF, OR | | | | | | | | |
| φ _{C1,E1} | DF, OR | | | | | | | | |
| φ _{C2,G1} | DF, OR | | | | | | | | |
| φ _{D1,D2} | DF, OR | 0.87 (0.07) | 0.79 (0.08) | 0.88 (0.07) | 0.46 (0.09) | 0.63 (0.12) | 0.82 (0.09) | | 0.74 (0.04) |
| φ _{D2,G1} | DF, OR | 0.00 | 0.04 (0.04) | 0.00 | 0.00 | 0.00 | 0.00 | | 0.01 (0.01) |
| φ _{E1,E2} | DF, OR | 0.15 (0.08) | 0.27 (0.08) | 0.21 (0.08) | | 0.41 (0.11) | 0.19 (0.12) | 0.21 (0.07) | 0.24 (0.04) |
| φ _{E2,G1} | DF, OR | 1.00 | 0.88 (0.12) | 0.72 (0.17) | 0.77 (0.13) | 0.79 (0.11) | 0.88 (0.12) | 0.93 (0.07) | 0.85 (0.04) |
| φ _{F1,G1} | DF, STK | 0.00 | 0.00 | 0.00 | 0.10 (0.10) | 0.00 | 0.25 (0.22) | 0.00 | 0.05 (0.03) |
| φ _{OR,B1} | OR | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| φ _{STK,A6} | STK | 1.07 (0.05) | 1.07 (0.06) | 1.01 (0.04) | 0.96 (0.04) | 1.00 | 0.98 (0.03) | 0.99 (0.04) | 1.01 (0.02) |
| P _{A2} | DF | 0.96 (0.02) | 0.88 (0.04) | 0.88 (0.04) | 0.93 (0.03) | 0.97 (0.02) | 0.96 (0.02) | 0.95 (0.03) | 0.93 (0.01) |
| P _{A3} | DF | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| P _{A4} | DF | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| P _{A5} | DF | 1.00 | 0.97 (0.03) | 1.00 | 1.00 | 1.00 | 1.00 | 0.96 (0.04) | 0.99 (0.01) |
| P _{A6} | DF, STK | 0.74 (0.06) | 0.78 (0.09) | 0.94 (0.04) | 0.98 (0.02) | 0.98 (0.02) | 1.00 | 0.93 (0.04) | 0.91 (0.02) |
| P _{A7a} | DF, STK | 0.97 (0.03) | 0.89 (0.05) | 0.90 (0.06) | 0.94 (0.04) | 0.91 (0.04) | 0.94 (0.05) | 0.92 (0.04) | 0.92 (0.02) |
| P _{A7b} | DF, STK | 1.00 | 1.00 | 0.96 (0.03) | 0.97 (0.03) | 0.95 (0.03) | 1.00 | 1.00 | 0.98 (0.01) |
| P _{A8a} | DF, STK | 0.96 (0.04) | 0.96 (0.04) | 1.00 | 1.00 | 0.96 (0.03) | 0.92 (0.06) | 0.95 (0.04) | 0.96 (0.01) |
| P _{A8b} | DF, STK | 1.00 | 1.00 | 1.00 | 1.00 | 0.96 (0.03) | 0.92 (0.06) | 0.95 (0.04) | 0.98 (0.01) |
| P _{B1} | DF, OR | 0.99 (0.01) | 0.99 (0.01) | 1.00 | 1.00 | 1.00 | 0.99 (0.01) | 1.00 | 1.00 (0.00) |
| P _{B2a} | DF, OR | 0.98 (0.02) | 1.00 | 0.99 (0.01) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 (0.00) |
| P _{B2b} | DF, OR | 0.01 (0.01) | 0.91 (0.03) | 0.97 (0.03) | 0.71 (0.09) | 0.35 (0.06) | 0.00 | 0.00 | 0.43 (0.02) |
| P _{B3a} | DF, OR | 0.86 (0.08) | 0.72 (0.10) | 0.82 (0.12) | 1.00 | 0.90 (0.09) | 0.92 (0.07) | 1.00 | 0.89 (0.03) |
| P _{B3b} | DF, OR | 0.86 (0.08) | 1.00 | 0.67 (0.26) | 0.57 (0.19) | 0.82 (0.12) | 0.86 (0.09) | 1.00 | 0.82 (0.05) |
| P _{C1} | DF, OR | | | | | | | | |
| P _{C2a} | DF, OR | | | | | | | | |
| P _{C2b} | DF, OR | | | | | | | | |
| P _{D1} | DF, OR | 1.00 | 0.96 (0.04) | 1.00 | 1.00 | 0.63 (0.12) | 1.00 | | 0.93 (0.02) |
| P _{E1} | DF, OR | 1.00 | 0.92 (0.06) | 0.74 (0.21) | | 0.57 (0.13) | 0.25 (0.15) | 0.53 (0.14) | 0.67 (0.05) |
| P _{F1a} | DF, STK | 0.86 (0.13) | 1.00 | 1.00 | 1.00 | 1.00 | 0.75 (0.22) | 1.00 | 0.94 (0.04) |
| P _{F1b} | DF, STK | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| P _{G1a} | DF, OR, STK | 0.91 (0.09) | 1.00 | 1.00 | 1.00 | 0.96 (0.04) | 1.00 | 1.00 | 0.98 (0.01) |
| P _{G1b} | DF, OR, STK | 1.00 | 0.89 (0.00) | 1.00 | 0.95 (0.05) | 0.96 (0.04) | 0.88 (0.08) | 0.95 (0.05) | 0.95 (0.02) |