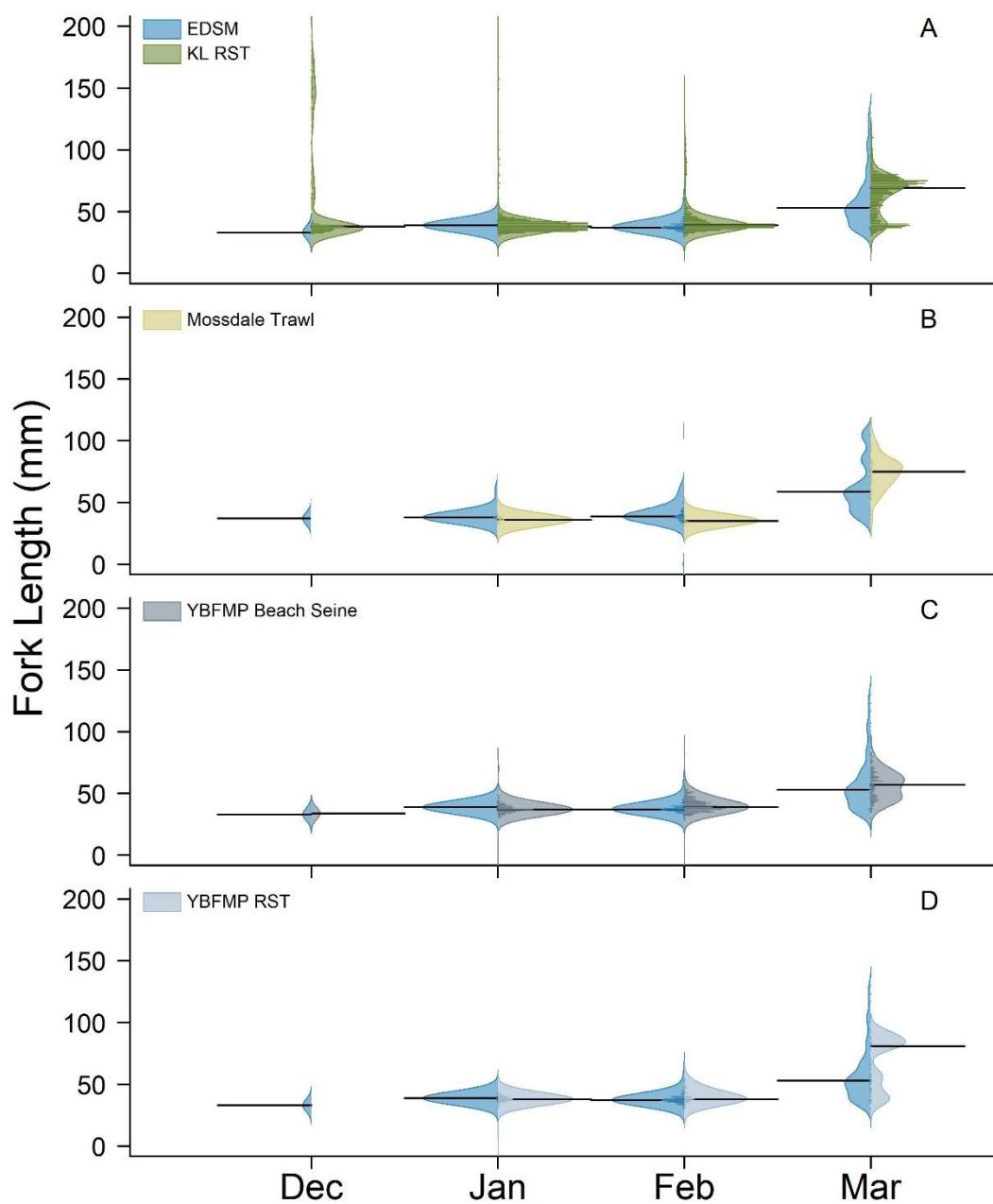


1 **Appendix A. Supplemental Figures and Tables**
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3 Figure A1. Series of bean plots depicting the size distribution of juvenile Chinook
4 Salmon caught by gear and monitoring program. Data from Knights Landing (KL) Rotary
5 Screw Trap (RST), DJFMP Mossdale Trawl, YBFMP Beach Seine, YBFMP Rotary
6 Screw Trap, and EDSM are shown on this figure. The bandwidth for all bean plots was
7 set to 5 and the median fork length is highlighted by the solid horizontal black line.
8 Catch counts are illustrated by stacked histograms within each density distribution
9 polygon.

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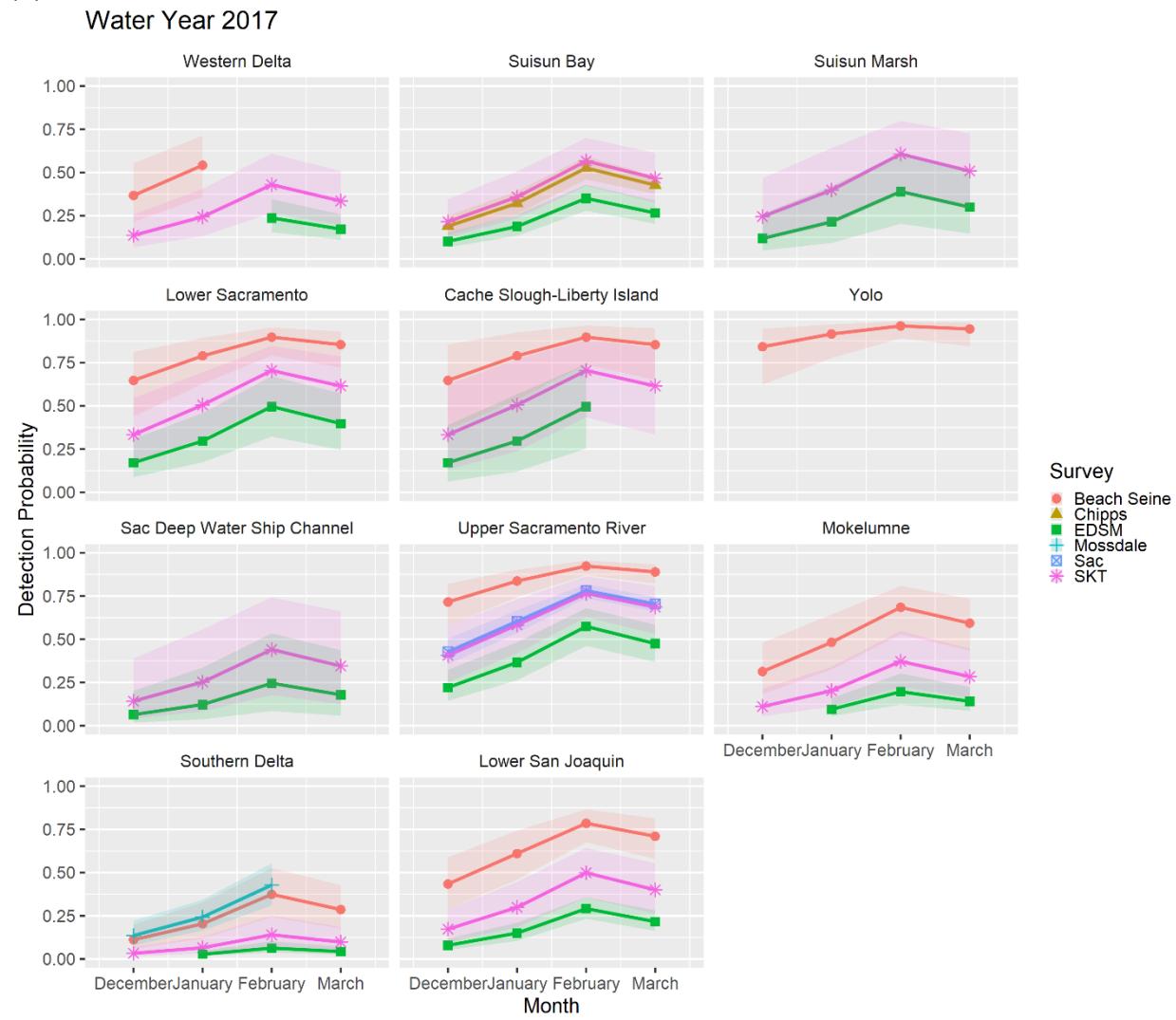


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Figure A2. Model-estimated detection probabilities (points) and 95% confidence intervals (vertical lines) by survey gear type and region for water years (a) 2017 and (b) 2018.

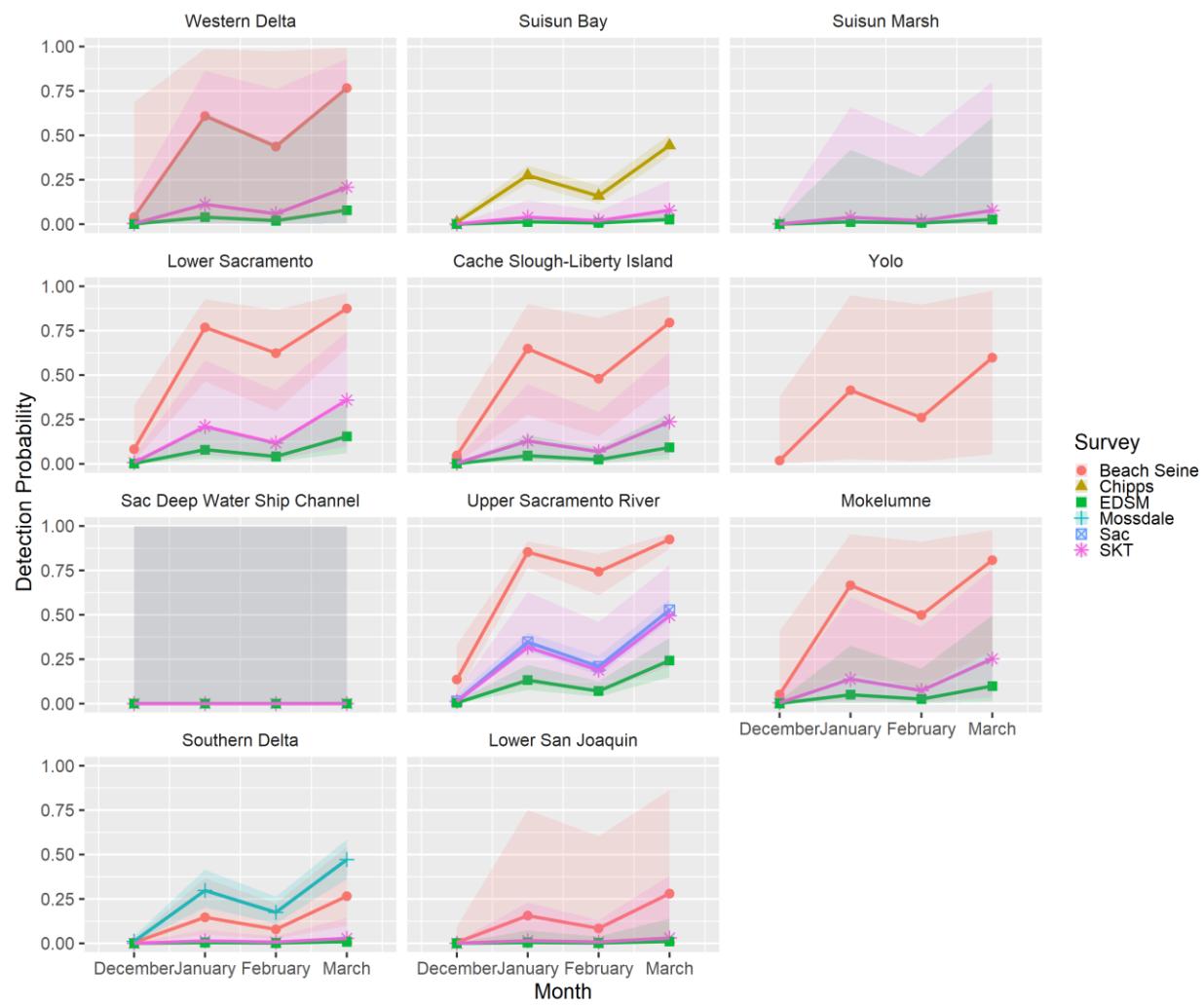
(a)



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(b)

Water Year 2018



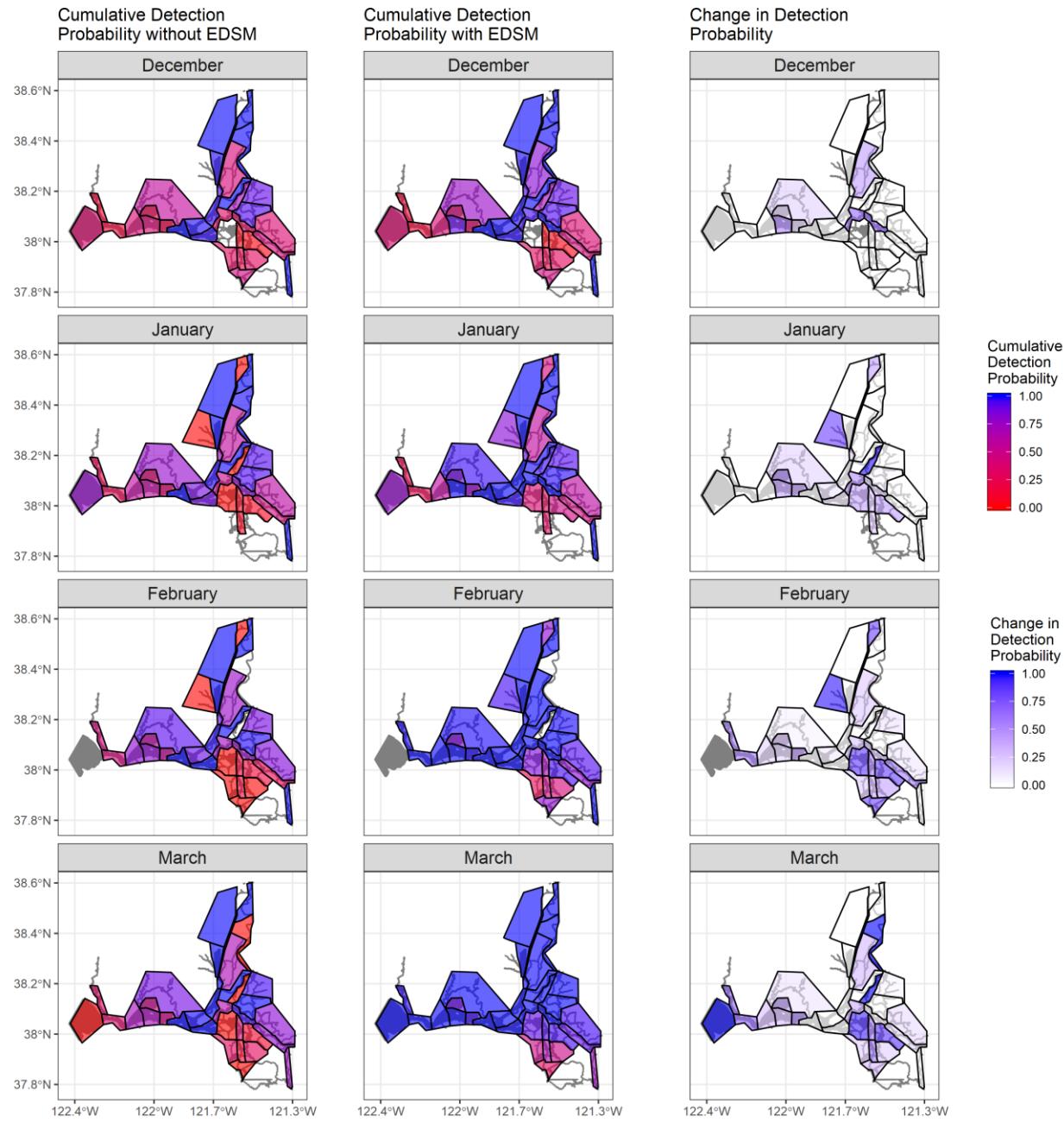
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Figure A3. Across-gear cumulative detection probabilities for juvenile Chinook Salmon without EDSM (left column) and with EDSM (middle column), and the change in

48 detection probability as a result of including EDSM (right column). Results are organized
49 by month and subregion for water years (a) 2017 and (b) 2018.

50 (a)

Water Year 2017



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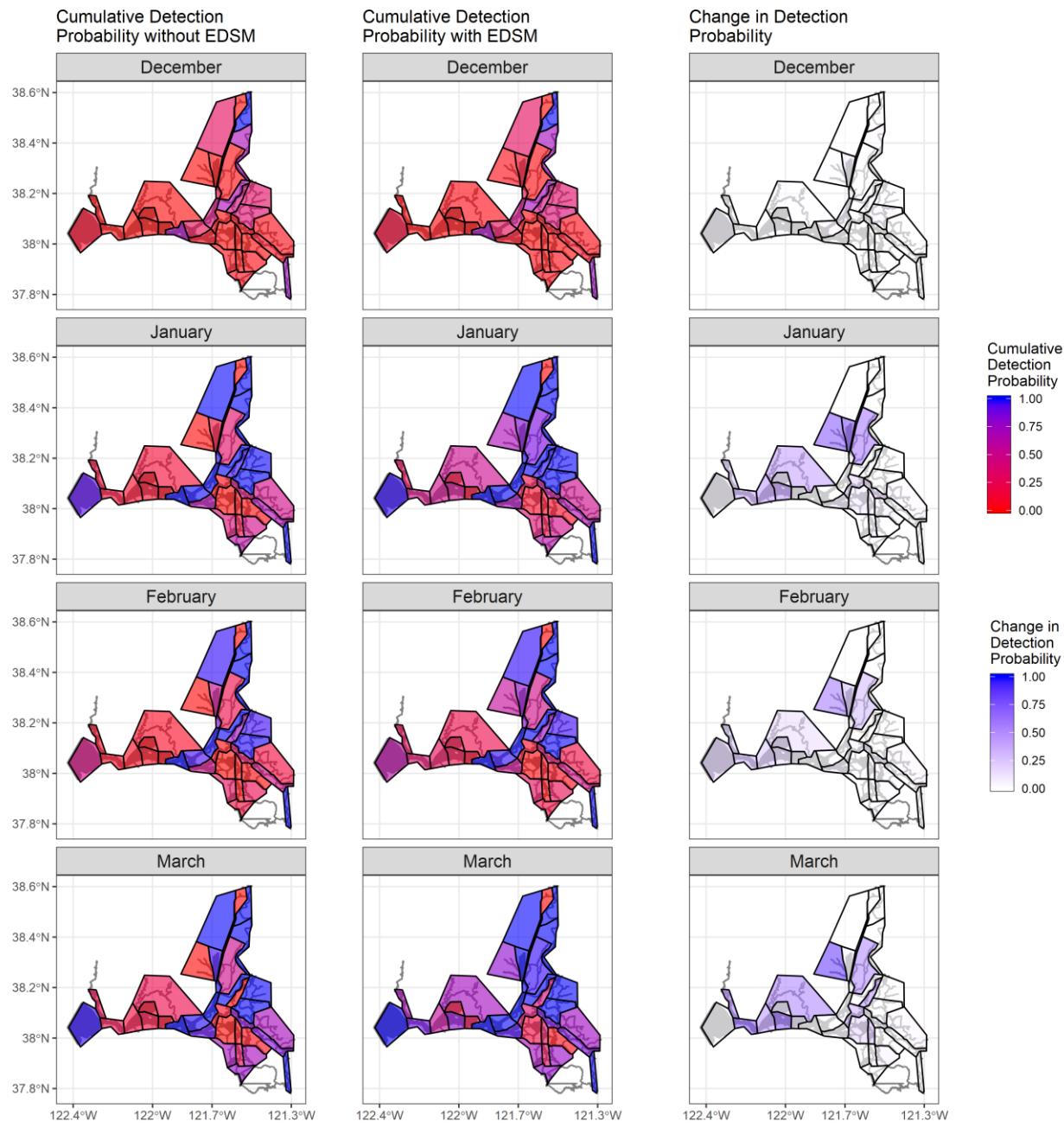
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59 (b)

Water Year 2018



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69 Table A1. Occupancy model parameter estimates for water years 2017 and 2018. The
 70 reference levels for the categorical variables Region, Month, and Gear are Cache
 71 Slough-Liberty Island, January, and Beach Seine.

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	Variable	Categorical Level	Water Year 2017			Water Year 2018		
			Estimate	SE	P(> z)	Estimate	SE	P(> z)
Occupancy	Intercept		1.338	0.861	0.120	-1.546	0.840	0.066
	Region	Lower Sacramento River	-0.90	0.857	0.294	0.006	0.963	0.995
		Lower San Joaquin River	0.240	0.866	0.782	0.037	1.950	0.985
		Mokelumne River	0.238	1.020	0.816	-0.616	1.065	0.563
		Sacramento Deep Water Shipping Channel	1.851	7.197	0.797	-4.912	4227	0.999
		Southern Delta	-0.62	0.841	0.459	-0.273	0.901	0.762
		Suisun Bay	-0.654	0.751	0.384	1.917	0.869	0.027
		Suisun Marsh	0.288	1.815	0.874	0.160	3.085	0.959
		Sacramento River	2.313	0.934	0.013	2.461	0.869	0.005
	Month	San Pablo Bay/Napa River	-0.662	0.967	0.493	-1.764	1.740	0.311
		Yolo Bypass	0.742	0.966	0.443	-1.390	1.408	0.323
Detection	Gear	February	-0.107	0.478	0.823	0.175	0.407	0.667
		March	0.273	0.488	0.575	1.340	0.364	<0.001
		December	-1.953	0.532	<0.001	-0.607	1.181	0.607
		Intercept	1.321	0.602	0.028	0.613	0.802	0.445
		Chipps Island Trawl	-1.462	0.306	<0.001	-0.281	0.609	0.644
	Region	EDSM Trawl	-2.184	0.243	<0.001	-3.642	0.385	<0.001
		Mossdale Trawl	0.223	0.378	0.554	0.904	0.640	0.158
		Sacramento Trawl	-1.215	0.285	<0.001	-2.395	0.295	<0.001
		SKT	-1.30	0.334	<0.001	-2.524	0.688	<0.001
		Lower Sacramento River	-0.00016	0.658	1.000	0.587	0.874	0.502
	Month	Lower San Joaquin River	-0.873	0.559	0.118	-2.302	1.570	0.143
		Mokelumne River	-1.393	0.614	0.023	0.079	1.290	0.951
		Sacramento Deep Water Shipping Channel	-1.108	0.832	0.182	-7.457	4202	0.999
		Southern Delta	-2.683	0.605	<0.001	-2.375	0.982	0.016
		Suisun Bay	-0.601	0.567	0.289	-1.304	0.828	0.115
		Suisun Marsh	-0.433	0.689	0.530	-1.318	2.131	0.536
		Sacramento River	0.314	0.586	0.592	1.146	0.756	0.130
		San Pablo Bay/Napa River	-1.153	0.605	0.057	-0.170	2.007	0.933
		Yolo Bypass	1.066	0.816	0.191	-0.959	1.835	0.601

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