

Supplement: Probability Values for Comparisons of Chinook Salmon Distributions

Supplementary Table S.1. Probability values for between-stock comparisons of yearling Chinook Salmon distributions in May. Metrics are the difference in mean weighted latitude (latitude, °N), the ratio of the variance in latitude (variance in latitude), the difference in weighted mean distance from shore (distance from shore, nautical miles; 1 nautical mile = 1.852 km), and the ratio of the variance in distance from shore (variance in distance from shore). Bold italic values indicate differences that were significant after Bonferroni correction.

Stock	Willamette River spring	Mid-/upper Columbia River spring	Snake River spring	Upper Columbia River summer–fall	Snake River fall
Latitude					
West Cascade spring	0.31	1.00	0.96	0.30	0.67
Willamette River spring		<0.01	<0.01	<0.01	<0.01
Mid-/upper Columbia River spring			0.08	0.86	1.00
Snake River spring				1.00	1.00
Upper Columbia River summer–fall					1.00
Variance in latitude					
West Cascade spring	1.00	0.95	0.80	0.17	0.99
Willamette River spring		0.69	0.37	0.06	0.87
Mid-/upper Columbia River spring			0.74	0.99	1.00
Snake River spring				1.00	1.00
Upper Columbia River summer–fall					0.87
Distance from shore					
West Cascade spring	0.55	<0.01	<0.01	1.00	0.17
Willamette River spring		<0.01	<0.01	<0.01	<0.01
Mid-/upper Columbia River spring			1.00	<0.01	0.89
Snake River spring				<0.01	0.92
Upper Columbia River summer–fall					1.00
Variance in distance from shore					
West Cascade spring	0.95	0.78	0.74	1.00	1.00
Willamette River spring		1.00	1.00	<0.01	0.27
Mid-/upper Columbia River spring			1.00	<0.01	0.51
Snake River spring				<0.01	0.46
Upper Columbia River summer–fall					1.00

Supplementary Table S.2. Probability values for between-stock comparisons of yearling Chinook salmon distributions in June. Distribution metrics are defined in Table S.1. Bold italic values indicate differences that were significant after Bonferroni correction.

Stock	Willamette River spring	Mid-/upper Columbia River spring	Snake River spring	Upper Columbia River summer-fall	Snake River fall
Latitude					
West Cascade spring	1.00	<i><0.01</i>	<i><0.01</i>	1.00	0.99
Willamette River spring		<i><0.01</i>	<i><0.01</i>	1.00	0.71
Mid-/upper Columbia River spring			1.00	<i><0.01</i>	<i><0.01</i>
Snake River spring				<i><0.01</i>	<i><0.01</i>
Upper Columbia River summer-fall					0.62
Variance in latitude					
West Cascade spring	0.89	<i>0.03</i>	0.67	0.99	0.90
Willamette River spring		<i><0.01</i>	0.11	1.00	1.00
Mid-/upper Columbia River spring			0.86	<i><0.01</i>	<i><0.01</i>
Snake River spring				<i><0.01</i>	<i><0.01</i>
Upper Columbia River summer-fall					1.00
Distance from shore					
West Cascade spring	<i><0.01</i>	<i><0.01</i>	<i>0.01</i>	0.57	0.93
Willamette River spring		<i><0.01</i>	<i><0.01</i>	<i><0.01</i>	<i><0.01</i>
Mid-/upper Columbia River spring			0.44	<i><0.01</i>	<i><0.01</i>
Snake River spring				<i>0.04</i>	0.12
Upper Columbia River summer-fall					1.00
Variance in distance from shore					
West Cascade spring	0.54	0.25	0.73	0.26	0.40
Willamette River spring		<i><0.01</i>	<i><0.01</i>	<i><0.01</i>	<i><0.01</i>
Mid-/upper Columbia River spring			1.00	0.95	1.00
Snake River spring				1.00	1.00
Upper Columbia River summer-fall					1.00

Supplementary Table S.3. Probability values for between-stock comparisons of subyearling Chinook salmon distributions in June. Distribution metrics are defined in Table S.1. Bold italic values indicate differences that were significant after Bonferroni correction.

Stock	Spring Creek group fall	Upper Columbia River summer-fall	Snake River fall
Latitude			
Willamette River spring	1.00	<i><0.01</i>	<i><0.01</i>
Spring Creek group fall		<i><0.01</i>	<i><0.01</i>
Upper Columbia River summer-fall			0.15
Variance in latitude			
Willamette River spring	0.99	0.62	0.14
Spring Creek group fall		1.00	1.00
Upper Columbia River summer-fall			0.89
Distance from shore			
Willamette River spring	<i><0.01</i>	0.90	0.27
Spring Creek group fall		<i><0.01</i>	<i><0.01</i>
Upper Columbia River summer-fall			0.51
Variance in distance from shore			
Willamette River spring	<i><0.01</i>	0.79	0.40
Spring Creek group fall		<i><0.01</i>	<i><0.01</i>
Upper Columbia River summer-fall			0.28

