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## Estimated Productivity Benefit from Habitat Actions by Watershed/Population

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### ESU: Upper Columbia River Steelhead

Estimates of future improvements to population egg-to-smolt productivity are based on estimated watershed improvements from the implementation of all tribal habitat actions in the MOA. Population improvements are standardized where 1.0 = the current production rate. For example a productivity improvement of 1.54 = 54% improvement over current conditions. Watersheds are weighted according to their relative importance.

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### Entiat River Summer Steelhead

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Watershed	Est. Future Function for Watershed (Calculated from all Limiting Factors)			Estimated Future Productivity	
	Current	10-Yr Est.	25-Yr Est.	10-Yr Impr.	25-Yr Impr.
Entiat River (Lower)	48.2	61.4	65.2	1.27	1.35
Entiat River (Middle - Stillwater)	72.4	77.2	81.9	1.07	1.13
Mad River	90.8	97.1	98.9	1.07	1.09

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<b>Total Estimated Improvement for</b>	<b>Entiat River Summer Steelhead</b>	<b>Year 10 Impr.</b>	<b>Year 25 Impr.</b>
		1.13	1.18

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### Methow River Summer Steelhead

Watershed	Est. Future Function for Watershed (Calculated from all Limiting Factors)			Estimated Future Productivity	
	Current	10-Yr Est.	25-Yr Est.	10-Yr Impr.	25-Yr Impr.
Beaver/Bear Creek	62.9	65.1	67.6	1.03	1.07
Black Canyon - Squaw Creek	80.3	81.9	82.9	1.02	1.03
Chewuch River (Lower)	72.3	75	76.8	1.04	1.06
Chewuch River (Upper)	81.5	81.5	81.5	1	1
Goat Creek/ Little Boulder Creek	68	68	68	1	1
Gold/Libby Creek	67.2	71.2	75	1.06	1.12
Methow River (Lower, to Carlton)	82.8	83.8	86.2	1.01	1.04
Methow River (Middle, Carlton to Weeman Br)	64	66.8	71.8	1.04	1.12
Methow River (Middle, Weeman Br to Lost R)	90.5	93.6	95.3	1.03	1.05
Methow River (Upper - Early Winters/Lost)	75	80	90	1.07	1.2
Twisp River (Lower)	50.5	53	55	1.05	1.09
Twisp River (Upper)	85.5	89	93.8	1.04	1.1
Wolf Creek / Hancock Creek	50.5	56.2	61.8	1.11	1.22

Total Estimated Improvement for Methow River Summer Steelhead	Year 10 Impr.	Year 25 Impr.
	1.02	1.08

## ESU: Upper Columbia River Steelhead

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### Wenatchee River Summer Steelhead

Watershed	Est. Future Function for Watershed (Calculated from all Limiting Factors)			Estimated Future Productivity	
	Current	10-Yr Est.	25-Yr Est.	10-Yr Impr.	25-Yr Impr.
Chiwawa River	91.8	93.4	95.1	1.02	1.04
Chumstick Creek	67.5	68.5	71.5	1.01	1.06
Icicle Creek	70.2	73.4	77.8	1.05	1.11
Little Wenatchee	90.2	92.2	94.2	1.02	1.04
Mission Creek	43.8	43.8	43.8	1	1
Nason Creek	65	72.3	78.8	1.11	1.21
North Side Tributaries	60	60	60	1	1
Peshastin Creek	62.8	76.2	80	1.21	1.27
Wenatchee River (Lower)	68	68	68	1	1
Wenatchee River (Upper + Chiwaukum)	80.5	85.2	90	1.06	1.12
White River	89.8	91.5	93.2	1.02	1.04

Total Estimated Improvement for Wenatchee River Summer Steelhead	Year 10 Impr.	Year 25 Impr.
	1.06	1.12