

APPENDIX A

Watershed Geographic Prioritization Method Calculations, Flowchart and Watershed Maps

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WATERSHED GEOGRAPHIC PRIORITIZATION METHOD

Watershed Integrity Index Calculations: Impervious surface area and forest cover in a watershed are commonly used to gauge the point at which significant harm is likely to happen to a stream. The following metrics were used and the index scores added together (A score of 8 is the maximum):

Impervious Area		Forest Area	
% Imp. Area	Index #	%Forest Area	Index #
0-3	4	70+	4
3-8	3	60-70	3
8-15	2	50-60	2
15+	1	50 and below	1

Watershed Integrity Index Calculations					
Stream (watershed size (mi ²))	Impervious Surface Area		Forest Cover		Watershed Integrity Index
	%	Index Score	%	Index Score	
Coulter (11.70)	0.2	4	78.1	4	8
Rocky (12.12)	1.5	4	71.7	4	8
Grovers (6.76)	1.6	4	73.3	4	8
Olalla (7.93)	3	4	63.1	3	7
Egdon/Silver (2.34)	1.1	4	66.5	3	7
Minter (10.25)	2.6	4	60.4	3	7
Gorst (9.53)	7	3	74.6	4	7
Anderson (Gorst) (2.04)	3.7	3	77.6	4	7
Chico (16.32)	6	3	68.3	3	6
Big Scandia (2.27)	4.6	3	69.9	3	6
Carpenter (2.95)	6.18	3	66.4	3	6
Blackjack (13.48)	13.5	2	53.3	2	4
Curley-Salmonberry (14.25)	9.6	2	58	2	4
Dogfish (8.50)	12.7	2	57.9	2	4
Burley (10.83)	10.6	2	55.1	2	4
Illahee (1.28)	16.7	1	53.9	2	3
Barker/Hoot (3.95)	22.2	1	42.7	1	2
Steele (5.01)	16.7	1	46.4	1	2
Clear (8.59)	29.3	1	47.9	1	2
Percent forest cover and impervious surface area were based on 2001 Landsat 7 ETM+ (30 meter pixel resolution)					