Appendix B – Site Specific Herbicide Risk Assessment Model Results and List of Roads With Infestations Near Streams

Appendix B contains supporting information for the water and aquatic resources impact analysis in the EIS. It discusses site specific Groundwater Loading Effects of Agricultural Management Systems (GLEAMS) model results, and also contains a table listing roads on the Forest that have infestations near streams. These are the areas where herbicide use is likely to occur under the proposed action where roadside ditches may act as an herbicide delivery mechanism to the stream. Table B-4 shows that scattered segments of many roads that cross streams are infested. The extent and concentration of even the heaviest infested areas is still very low considering the size of the watersheds and road systems. About 269 miles of the entire Forest road system have mapped invasives within 100 feet of streams.

The GLEAMS model simulates water quality conditions after herbicide application on an agricultural field. This model is well validated for agricultural use. As the GLEAMS model was originally an agriculture model, all parameters used are not compatible with site specific parameters for treatment areas on the Forest. Despite these limitations the model is the best available currently. The Syracuse Environmental Research Associates, Inc. (SERA) Risk Assessment analysis takes the herbicide concentration provided by GLEAMS and uses them in a dilution model for a stream or pond to get the water contamination rates for specific scenarios.

The risk assessment model assumes broadcast treatment along a small perennial stream. The treatment area modeled is 50 feet wide and 1.6 miles long (10 acres). This generally tends to overestimate herbicide in streams for this project because no broadcast spraying is proposed within 100 feet of a perennial or flowing intermittent stream, or lakes and wetlands, or within 50 feet of a dry, intermittent stream. However, many treatment areas are larger than 10 acres. In steeper areas, the model may underestimate the herbicide delivery as the model assumes a 10 percent slope, although much of the Forest has steeper slopes. The model also assumes even rainfall every ten days, not a usual occurrence on this Forest. Less frequent precipitation would in actuality move herbicides a shorter distance.

The spreadsheets developed for the SERA Risk Assessments were modified for type of herbicide, herbicide application rates, soil texture and rainfall conditions found at treatment sites on Forest. These were run for the specific herbicides to be used at these sites to estimate the potential herbicide concentrations in streams and lakes after treatment. GLEAMS runs were used to model several specific locations where site and treatment conditions were believed to present the highest risk of water contamination.

Table B-1 displays the GLEAMS model results for three herbicides that, all things being equal, pose the greatest risk of adverse impact to aquatic habitats. The three herbicides with highest risk to aquatic resources were used with applications at the typical use rate and also the highest label rate. Analysis of

these sites indicates all HQ values for fish were below 1.0. The PDFs and buffers respond to these risks by ensuring the picloram is not used near streams, and by using aquatic formulations of glyphosate and triclopyr in riparian situations.

Tables B-2 and B-3 show results for all herbicides based on national worst case estimates about herbicide delivery to water. This project is not likely to result in harmful amounts of herbicide entering streams because the conditions that equate to these worst case estimates do not actually occur on the Forest; the PDFs and buffers limit the extent, type and method of chemical use, which minimizes or eliminates risk.

These data demonstrate the reasons why the herbicide buffers are different for the different chemicals based on the degree of risk to the aquatic environment. The herbicide labels consider the behavior of the herbicides under different soils conditions and provide guidance for appropriate use.

Table B-1. **GLEAMS Modeled Site Specific Applications Results Summary**

Using actual soil, rainfall, and stream flow data from infested sites, assuming full broadcast to the waters' edge

Site		**Glyphosate**		**Picloram**		**Triclopyr TEA**	
	Application Rate lbs-active ingredient/acre	**Low 2.0**	**High 5.0**	**Low 0.35**	**High 1.0**	**Low 1.0**	**High 6.0**
Little Naches River	Max Water Conc. Mg/l	.0064	.0269	.0010	.0028	.0009	.0066
	Hazard Quotient	.0128	.0538	.0250	.0700	.0035	.0254
American River	Max Water Conc. Mg/l	.0091	.0142	.0026	.0076	.0012	.0087
	Hazard Quotient	.0182	.0284	.0650	.1900	.0046	.0335
Swauk Creek	Max Water Conc. Mg/l	.0067	.0109	.0003	.0007	.0003	.0024
	Hazard Quotient	.0134	.0218	.0075	.0175	.0012	.0092
Teanaway River	Max Water Conc. Mg/l	.0091	.0181	.0022	.0065	.0012	.0033

Site		Glyphosate		Picloram		Triclopyr TEA	
	Hazard Quotient	.0182	.0362	.0550	.1625	.0046	.0127
Tillicum Creek	Max Water Conc. Mg/l	.0041	.0076	.0002	.0005	.0002	.0009
	Hazard Quotient	.0082	.0152	.0050	.0125	.0008	.0035
Chewuch River	Max Water Conc. Mg/l	.0064	.0182	.0005	.0015	.0006	.0027
	Hazard Quotient	.0128	.0364	.0125	.0375	.0023	.0104

Table B-1. Hazard Quotient Values for Fish and Aquatic Invertebrates from SERA Worksheet Modeled Herbicide Applications

		Typical Application Rate						Maximum Application Rate					
Herbicide	Rainfall Rate	Clay		Loam		Sand		Clay		Loam		Sand	
		Fish HQ	Invertebrate HQ	Fish HQ	Invertebrate HQ	Fish HQ	Invertebrate HQ	Fish HQ	Invertebrate HQ	Fish HQ	Invertebrate HQ	Fish HQ	Invertebrate HQ
Aminopyralid	20	0.0053	0.0001	0.0053	0.0001	0.0086	0.0001	0.0075	0.0001	0.0075	0.0001	0.0121	0.0002
	50	0.0041	0.0001	0.0058	0.0001	0.0138	0.0002	0.0058	0.0001	0.0082	0.0001	0.0195	0.0003
Chlorsulfuron	20	0.0008	0.0002	0.0000	0.0000	0.0000	0.0000	0.0034	0.0007	0.0000	0.0000	0.0000	0.0000
	50	0.0032	0.0006	0.0000	0.0000	0.0004	0.0001	0.0141	0.0028	0.0001	0.0000	0.0004	0.0003
Clopyralid	20	0.0005	0.0001	0.0000	0.0000	0.0000	0.0000	0.0007	0.0002	0.0000	0.0000	0.0001	0.0000
	50	0.0007	0.0002	0.0005	0.0001	0.0013	0.0003	0.0011	0.0002	0.0007	0.0002	0.0018	0.0004
Glyphosate	20	0.0489	0.0001	0.1021	0.0001	0.2494	0.0003	0.1223	0.0002	0.2552	0.0003	0.6235	0.0008
	50	0.3614	0.0005	0.5612	0.0007	1.1328	0.0015	0.9035	0.0012	1.4030	0.0018	2.8320	0.0036
Imazapic	20	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	50	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Imazapyr	20	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	50	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0002	0.0000	0.0000	0.0000	0.0000	0.0000
	20	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Metsulfuron Methyl	50	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Picloram	20	0.1950	0.0029	0.0216	0.0003	0.1448	0.0022	0.5570	0.0083	0.0618	0.0009	0.4138	0.0062
	50	0.8575	0.0128	0.1012	0.0015	0.4221	0.0063	2.4500	0.0366	0.2893	0.0043	1.2060	0.0180
Triclopyr TEA	20	0.0043	0.0001	0.0082	0.0002	0.0279	0.0005	0.0259	0.0005	0.0491	0.0009	0.1672	0.0031
	50	0.0283	0.0005	0.0436	0.0008	0.1192	0.0022	0.1700	0.0032	0.2615	0.0049	0.7155	0.0134

Shaded cells highlight HQ values of 1.0 or greater.

Table B-2. Hazard Quotient Values for Algae and Aquatic Macrophytes from SERA Worksheet Modeled Herbicide Applications

		Typical Application Rate						Maximum Application Rate					
Herbicide	Rainfall Rate	Clay		Loam		Sand		Clay		Loam		Sand	
		Algae HQ	Macrophyte HQ	Algae HQ	Macrophyte HQ	Algae HQ	Macrophyte HQ	Algae HQ	Macrophyte HQ	Algae HQ	Macrophyte HQ	Algae HQ	Macrophyte HQ
Aminopyralid	20	0.0012	0.0002	0.0012	0.0002	0.0020	0.0003	0.0017	0.0002	0.0017	0.0002	0.0028	0.0004
	50	0.0009	0.0001	0.0013	0.0002	0.0031	0.0004	0.0013	0.0002	0.0019	0.0003	0.1500	0.0006
Chlorsulfuron	20	0.1501	31.9	0.0000	0.0000	0.0028	0.5946	0.6700	143	0.0000	0.0000	0.0125	2.6543
	50	0.6322	134	0.0024	0.5123	0.0738	15.7	2.8225	601	0.0108	2.2872	0.3295	70.1
Clopyralid	20	0.0035	0.0004	0.0000	0.0000	0.0003	0.0000	0.0051	0.0005	0.0000	0.0000	0.0004	0.0000
	50	0.0054	0.0005	0.0036	0.0004	0.0091	0.0009	0.0076	0.0008	0.0051	0.0005	0.0130	0.0013
Glyphosate	20	0.0055	0.0016	0.0115	0.0034	0.0280	0.0083	0.0137	0.0041	0.0287	0.0085	0.0701	0.0208
	50	0.0406	0.0120	0.0631	0.0187	0.1273	0.0378	0.1015	0.0301	0.1576	0.0468	0.3182	0.0944
Imazapic	20	0.0002	0.0097	0.0000	0.0000	0.0000	0.0009	0.0004	0.0142	0.0000	0.0000	0.0000	0.0013
	50	0.0013	0.0502	0.0000	0.0007	0.0002	0.0091	0.0019	0.0734	0.0000	0.0010	0.0003	0.0133
Imazapyr	20	0.0028	0.0043	0.0000	0.0000	0.0008	0.0012	0.0077	0.0119	0.0000	0.0000	0.0022	0.0034
	50	0.0141	0.0217	0.0001	0.0001	0.0036	0.0055	0.0393	0.0604	0.0002	0.0003	0.0099	0.0152
Metsulfuron Methyl	20	0.0009	0.0552	0.0000	0.0003	0.0002	0.0109	0.0044	0.2758	0.0000	0.0015	0.0009	0.0546
	50	0.0036	0.2243	0.0002	0.0102	0.0009	0.0532	0.0179	1.1217	0.0008	0.0510	0.0043	0.2659

Picloram	20	0.0339	0.0780	0.0038	0.0086	0.0252	0.0579	0.0969	0.2228	0.0107	0.0247	0.0720	0.1655
	50	0.1491	0.3430	0.0176	0.0405	0.0734	0.1688	0.4261	0.9800	0.0503	0.1157	0.2097	0.4824
Triclopyr TEA	20	0.0049	0.0027	0.0093	0.0051	0.0315	0.0173	0.0292	0.0160	0.0093	0.0304	0.0315	0.1035
	50	0.0320	0.0175	0.0493	0.0270	0.1348	0.0738	0.1922	0.1053	0.2956	0.1619	0.8088	0.4429

Shaded cells highlight HQ values of 1.0 or greater.

5th Field Watershed	6th Field Watershed	Road ID	Miles of road proposed for herbicide treatment within 100 feet of Streams
Antoine Creek-Okanogan River Total infested miles within 100 feet of stream channels **= 10.66**	Lower Antoine Creek	3235000	0.074
		3235047	0.056
		3235047-0.52R-1	0.029
		3235050	0.132
		3524100-2.80L-1	0.044
		3524100-3.84R-2	0.055
		3525020	0.194
	Mosquito Creek-Okanogan River	3525000	0.139
		3525000-3.94L-1	0.038
		3525000-3.98R-3	0.662
		3525000-5.15L-2	0.039
		3525000-5.15L-3	0.016
		3525000-5.38R-1	0.046
		3525015	0.059
		3525015-2.00-1	0.076
		3525015-2.00-2	0.089
		3525015-2.00-6	0.056
		3525100	2.305
		3525100-1.48R-1	0.108
		3525100-3.73L-1	0.622
		3525100-4.35L-1	0.453
		3525100-4.35L-2	0.168
	Tonasket Creek	3524100	0.138
		3524100-2.01R-1	0.073
		3524120	0.055
		3524130	0.180
		3524130-0.36L-1	0.000
		3525000	0.171

5th Field Watershed	6th Field Watershed	Road ID	Miles of road proposed for herbicide treatment within 100 feet of Streams
		3525000-7.13L-1	0.039
		3525000-9.23L-1	0.049
		3525020	0.028
		3525210	0.057
		3525250	0.138
		3525255	0.234
		3525300	0.825
		3525300-0.58L-1	0.165
		3525303	0.039
		3525304	0.024
		3525305	0.022
		3525310	0.036
		3525315	0.042
		3525320	0.032
		3525330	0.358
		3525335	0.267
		3525337	0.041
Antoine Creek-Okanogan River (cont.)		3525338-0.26R-1	0.031
		3525340	0.006
		3525340-0.89R-1	0.082
		3525350	0.353
		3525350-0.66L-2	0.076
		3525350-0.66L-3	0.243
		3525350-0.66R-1	0.061
		3525350-2.63R-1	0.081
		3525352	0.060
		3525352-0.41L-2	0.052
		3525355	0.051

5th Field Watershed	6th Field Watershed	Road ID	Miles of road proposed for herbicide treatment within 100 feet of Streams
		3525360	0.087
		3525364	0.128
		3525364-0.47L-1	0.234
		3525373	0.032
		3525375	0.044
		3525375-0.28L-1	0.028
		3525375-0.29L-1	0.004
	Upper Antoine Creek	3230000-12.98L-1	0.023
		3230150	0.124
		3230150-2.59R-1	0.031
	Whiskey Cache Creek	3525000	0.184
		3525000-3.38L-1	0.046
		3525000-3.48R-2	0.037
		3525015	0.039
		3525015-2.00-2	0.047
Bonaparte Creek-Okanogan River Total infested miles within100 feet of stream channels **= 2.02**	Lower Bonaparte Creek	3010395	0.041
	Lower Siwash Creek	3235000	0.089
		3235035	0.051
	Peony Creek	3010000	0.041
		3010125	0.034
		3010125-1.8-1	0.053
		3010150	0.023
		3010200-0.21R-1	0.178
		3010200-2.88R-1	0.008
		3010300	0.414
		3010300-0.24L-1	0.012

5th Field Watershed	6th Field Watershed	Road ID	Miles of road proposed for herbicide treatment within 100 feet of Streams
		3010300-1.00L-1	0.011
		3010300-1.00R-1	0.006
		3010300-1.26L-1	0.011
		3010350	0.058
		3010395	0.072
		3015000	0.040
	Upper Bonaparte Creek	3100202	0.009
		3100300	0.046
		3100300-0.76R-1	0.070
		3100310	0.101
		3100310-0.18L-1	0.173
		3100320	0.069
		3200015	0.018
		3300100	0.244
	Upper Siwash Creek	3230075	0.054
		3230075-3.30L-1	0.086
Chiwawa River Total infested miles within 100 feet of stream channels **= 0.87**	Chikamin Creek	6210000	0.187
		6210230	0.012
	Lower Chiwawa River	6121125	0.028
		6200000	0.237
		6200130	0.003
		6209000	0.000
	Middle Chiwawa River	6200000	0.208
	Phelps Creek	6211000	0.042

5th Field Watershed	6th Field Watershed	Road ID	Miles of road proposed for herbicide treatment within 100 feet of Streams
	Upper Chiwawa River	6200000	0.032
	Rock Creek	6200000	0.119
Cle Elum River Total infested miles within 100 feet of stream channels **= 1.49**	Cooper River	4316000	0.029
		4600000	0.273
		4600117	0.020
		4600125	0.037
		4600211	0.038
	Headwaters Cle Elum River	4330000	0.842
		4330138	0.016
		4330227	0.008
		4330621	0.004
	Upper Cle Elum River	4308000	0.160
		4308115	0.014
		4309000	0.019
		4330000	0.006
		4330134	0.003
		4330142	0.006
		4600000	0.010
Entiat River Total infested miles within 100 feet of stream channels **= 23.38**	Lake Creek-Entiat River	5100000	0.677
		5100114	0.008
		5100116	0.012
		5501000	0.089
		5501610	0.101
		5605000	0.200
		5900000	0.033

5th Field Watershed	6th Field Watershed	Road ID	Miles of road proposed for herbicide treatment within 100 feet of Streams
		5901000	0.130
		5902000	0.203
		5904000	0.411
	Mills Creek-Entiat River	5200000	0.896
		5200199	0.040
		5210000	0.068
		5210215	0.050
		5212000	0.171
		5212110	0.003
		5302000	0.792
Entiat River (cont.)		5302110	0.166
		5302208	0.046
		5302220	0.005
		5303210	0.168
		5303215	0.076
		5303218	0.003
		5305000	0.049
		5310000	0.077
		5310415	0.040
		5801000	0.172
		5801070	0.006
		5801100	0.041
		5801110	0.109
		5801210	0.249
		5801212	0.044
		5801218	0.081
		5810000	0.085
		5300000	1.993

5th Field Watershed	6th Field Watershed	Road ID	Miles of road proposed for herbicide treatment within 100 feet of Streams
	Mud Creek	5300111	0.015
		5300114	1.281
		5300210	1.023
		5300212	0.012
		5300215	0.402
		5300217	0.693
		5300219	0.002
		5300220	0.006
		5300227	0.046
		5320000	0.414
		5320111	1.155
		5330000	0.811
		5330500	0.006
		8410000	1.312
		8410710	0.094
		8410713	0.034
		8410720	0.045
		8410722	0.064
		8410723	0.051
		8410726	0.045
		8410800	0.016
		8410801	0.083
		8410908	0.008
		8410910	1.479
		8500000	0.094
		8500910	0.047
		8500917	0.052
		8500919	0.101

5th Field Watershed	6th Field Watershed	Road ID	Miles of road proposed for herbicide treatment within 100 feet of Streams
		C371	0.006
	North Fork Entiat River	5902000	0.040
	Potato Creek-Entiat River	5310000	0.110
		5320000	0.191
		5320114	0.095
		5320117	0.162
Entiat River (cont.)	Potato Creek-Entiat River	5320118	0.887
		5380000	2.642
		5380330	0.060
		5390000	1.891
		5390111	0.128
		5390115	0.109
		5390310	0.090
		5390311	0.003
		5395000	0.094
		5503620	0.063
		5503630	0.046
		5701000	0.177
		5701200	0.040
		5701300	0.091
		5701400	0.135
		5702000	0.341
		5706000	0.039
		5710000	0.131
		8410312	0.040
		8410410	0.062
	Preston Creek-Entitat River	5501000	0.187
		5501110	0.040

5th Field Watershed	6th Field Watershed	Road ID	Miles of road proposed for herbicide treatment within 100 feet of Streams
		5501112	0.048
		5501113	0.061
		5501210	0.208
		5501211	0.121
		5502000	0.259
		5502216	0.089
		5502218	0.112
		5502221	0.051
		5502222	0.009
		5502223	0.020
		5502300	0.043
		5503000	0.131
		5503112	0.046
		5503120	0.061
		5503209	0.040
		5503210	0.041
		5503213	0.061
		5503511	0.099
		5503514	0.042
		5503700	0.093
		5503701	0.051
		5504000	0.213
		5504154	0.088
	Roaring Creek	5210000	0.554
		5210229	0.032
		5210261	0.032
		5210415	0.054
		5210425	0.133

5th Field Watershed	6th Field Watershed	Road ID	Miles of road proposed for herbicide treatment within 100 feet of Streams
Icicle Creek Total infested miles within 100 feet of stream channels **= 2.51**	Eightmile Creek	7601000	0.314
		7601118	0.075
	Lower Icicle Creek	7600000	0.173
		7600112	0.030
	Middle Icicle Creek	7600000	1.176
		7600215	0.134
		7600215-A	0.005
		7600315	0.017
		7601000	0.092
		7601111	0.069
		7603000	0.171
		7603140	0.006
		7603165	0.038
		7605000	0.093
		7605100	0.059
		7605103	0.027
		7605300	0.020
		7609000	0.008
Kachess River-Yakima River Total infested miles within 100 feet of stream channels **= 3.66**	Big Creek	4110000	0.017
	Cabin Creek	4100000	0.329
		4100113	0.003
		4110000	0.046
		4111000	0.026
		4113000	0.008
	Headwaters Yakima River	4832000	0.063
		4832136	0.080
		4832141	0.049

5th Field Watershed	6th Field Watershed	Road ID	Miles of road proposed for herbicide treatment within 100 feet of Streams
		4934000	0.033
		4934133	0.063
		5480000	0.088
		5480112	0.001
		5480115	0.137
		5480118	0.060
		5480210	0.008
		5483000	0.200
		5483114	0.003
		5484000	0.088
		9070000	0.190
		9070122	0.055
		9070124	0.043
		9070125	0.169
	Kachess River	4600000	0.058
		4600129	0.012
		4900000	0.130
		4930000	0.161
		4930118	0.071
		4948000	0.096
		4948120	0.272
		4948131	0.041
		4948133	0.018
		4948220	0.003
	Stampede Creek-Yakima River	4100000	0.047
		4100621	0.004
		4822000	0.017
		4822114	0.047

5th Field Watershed	6th Field Watershed	Road ID	Miles of road proposed for herbicide treatment within 100 feet of Streams
Kachess River-Yakima River (cont.)	Stampede Creek-Yakima River (cont.)	4823000	0.208
		4823114	0.000
		4823201	0.038
		4823203	0.020
		4823207	0.038
		4826000	0.006
		4826111	0.004
		4832000	0.039
		4832124	0.031
		4832125	0.010
		4934000	0.121
		4934122	0.023
		4934126	0.002
		5400000	0.084
		5400332	0.046
		5400401	0.045
		5400403	0.046
		5400420	0.120
		5400424	0.004
		C12650	0.036
Lake Entiat-Columbia River Total infested miles within 100 feet of stream channels **= 4.55**	Johnson Creek	5300000	0.024
		5300228	0.812
		5350000	0.064
		5350235	0.397
		5350236	0.015
		5370000	0.715
		8500000	0.150
		8500207	0.162

5th Field Watershed	6th Field Watershed	Road ID	Miles of road proposed for herbicide treatment within 100 feet of Streams
		8500209	0.220
		8500211	0.124
		8500225	0.056
	Number Two Canyon-Columbia River	7101000	0.038
		7101500	0.520
		7101510	0.003
	Spencer Canyon-Columbia River	5213123	0.088
		5213125	0.041
	Swakane Creek	7415000	0.501
		7415617	0.619
Little Naches River Total infested miles within 100 feet of stream channels **= 13.71**	Crow Creek	1902000	0.011
		1920000	0.292
		1920639	0.075
		1920814	0.001
		1920832	0.002
		1922000	0.344
	Headwaters Little Naches River	1913000	0.263
		1913784	0.279
		1913785	0.003
		1914000	0.235
		1914787	0.042
Little Naches River (cont.)	Lower American River	1700629	0.016
		1700645	0.041
		1800000	0.038
		WA-410	1.355
		1700425	0.043

5th Field Watershed	6th Field Watershed	Road ID	Miles of road proposed for herbicide treatment within 100 feet of Streams
	Lower Bumping River	1709000	0.039
		1800000	1.421
		1800392	0.014
		1800394	0.048
		1800625	0.040
		WA-410	0.206
	Lower Little Naches River	1900000	2.049
		1900712	0.000
		1900726	0.002
		1900750	0.525
		1900752	0.019
		1900754	0.007
		1901000	0.639
		1901610	0.005
		1901625	0.000
		1901727	0.006
		1902000	0.164
		1903000	0.227
		1904000	0.038
		1904740	0.044
		1905000	0.058
		1906872	0.042
		1915000	0.122
		1916000	0.188
		1921000	0.209
		WA-410	0.151
	Upper American River	1700460	0.081
		1700675	0.007

5th Field Watershed	6th Field Watershed	Road ID	Miles of road proposed for herbicide treatment within 100 feet of Streams
		WA-410	0.727
	Upper Little Naches River	1900000	0.801
		1900791	0.083
		1905000	0.194
		1906000	0.804
		1906686	0.010
		1906857	0.018
		1911000	0.377
		1911780	0.007
		1912000	0.698
		1912888	0.131
		1912890	0.130
		1913000	0.048
Loup Loup Creek-Okanogan River Total infested miles within 100 feet of stream channels **= 0.06**	Upper Loup Loup Creek	4201026	0.057
Lower Chewuch River Total infested miles within 100 feet of stream channels	Boulder Creek	3700000	0.839
		3700000-30.09L-1	0.010
		3700000-30.61L-1	0.003
		3700980	0.123
		3700983	0.055
		5009200	0.044

5th Field Watershed	6th Field Watershed	Road ID	Miles of road proposed for herbicide treatment within 100 feet of Streams
= 18.59	Cub Creek	5200000	0.860
		5200025	0.071
		5200100	0.317
		5200126	0.218
		5200126-0.04R-1	0.217
		5200142	0.015
		5200150	0.021
		5215000	0.244
		5215000-5.37L-1	0.078
		5215000-5.87R-1	0.009
		5215200	0.164
		5215215	0.006
		5215300	0.098
		5215370	0.136
		5215380	0.089
		5215400	0.287
		5215420	0.087
		5215600	0.107
		5215610	0.017
		5215620	0.289
	Doe Creek-Chewuch River	1CCE23FB6.02	0.005
		5010000	0.834
		5010000-3.86L-1	0.007
		5010000-4.41R-1	0.006
		5010000-4.87L-1	0.007
		5010100	0.966
		5010115	0.179
		5010117	0.039

5th Field Watershed	6th Field Watershed	Road ID	Miles of road proposed for herbicide treatment within 100 feet of Streams
		5010200	0.429
		5010230	0.006
		5010250	0.010
		5010255	0.010
		5010360	0.011
		5010365	0.008
		5010370	0.021
		5010385	0.009
		5010420	0.028
		5010500	0.473
		5010512	0.007
		5010525	0.027
		5010700	0.121
Lower Chewuch River (cont.)	Doe Creek-Chewuch River (cont.)	5010715	0.008
		5010800	0.088
		5100000	0.899
		5100000-5.12R-2	0.011
		5100082	0.010
		5100100	0.794
		5100100-1.31R-1	0.008
		5140000	0.046
		5160000	0.718
		5160020	0.012
	Eight Mile Creek	5100000	0.038
		5130000	0.440
		5130100	0.395
		5130101	0.030
		5130105	0.117

5th Field Watershed	6th Field Watershed	Road ID	Miles of road proposed for herbicide treatment within 100 feet of Streams
		5130140	0.182
		5130140-0.09L-1	0.010
		5130195	0.109
		5130205	0.173
		5130207	0.044
		5130209	0.015
		5130300	0.364
		5130315	0.129
		5130320	0.267
		5130335	0.062
		5130570	0.011
		5220000	0.347
	Falls Creek	5100000	0.019
		5140000	0.105
		5140020	0.011
	North Fork Boulder Creek	3700000	1.065
		3700000-25.18L-1	0.081
		3700000-26.95L-1	0.009
		3700000-28.28L-1	0.010
		3700635	0.001
		3700800	0.815
		3700805	0.054
		3700810	0.020
		3700815	0.022
		3700818	0.005
		3700825	0.060
		3700900	0.108
		3700960	0.039

5th Field Watershed	6th Field Watershed	Road ID	Miles of road proposed for herbicide treatment within 100 feet of Streams
		3700970	0.007
	Pearrygin Creek-Chewuch River	5009100	0.405
		5009200	0.609
		5009225	0.239
		5009230	0.297
		5009230-1.4-1	0.007
		5009300	0.205
		5009385	0.372
		5009390	0.007
		5009400	0.120
Lower Chewuch River (cont.)		5010000	0.085
		5100000	0.333
		5130140	0.233
		5130140-1.28R-1	0.001
	Twenty Mile Creek	5010000	0.039
		5010700	0.268
Lower Lake Chelan Total infested miles within 100 feet of stream channels **= 7.25**	Antilon Creek-Lake Chelan	8045000	0.374
		8200000	0.044
		8200103	0.010
		8200105	0.078
		8210000	0.637
		8210125	0.187
		8213000	0.203
		8213114	0.058
	First Creek-Lake Chelan	8410240	0.045
		8500320	0.127
		8505000	0.000
		8010000	0.870

5th Field Watershed	6th Field Watershed	Road ID	Miles of road proposed for herbicide treatment within 100 feet of Streams
	Lake Chelan-Chelan River	8020000	0.575
		8021000	0.126
		8021100	0.100
		8040000	0.062
		8045000	0.252
	Mitchell Creek-Lake Chelan	8020000	0.062
		8200000	1.175
		8200117	0.183
		8200119	0.044
		8200120	0.072
		8215000	0.124
		8215112	1.319
		8215113	0.012
	Twenty-five mile Creek	5900000	0.042
		5900128	0.046
		5903000	0.194
		5903100	0.053
		5905000	0.039
		8410000	0.075
		8410231	0.056
Lower Methow River Total infested miles within 100 feet of stream channels **= 16.38**	Black Canyon Creek	4010000	0.468
		4010035	0.020
		4010050	0.218
		4010051	0.007
		4010066	0.078
		4010068	0.073
		4010100	0.044
		4010195	0.011

5th Field Watershed	6th Field Watershed	Road ID	Miles of road proposed for herbicide treatment within 100 feet of Streams
		8020000	0.047
	French Creek	4150000	0.206
		4150100	0.086
		4150185	0.109
		4150187	0.010
		4340000	0.985
Lower Methow River (cont.)	Gold Creek	4340100	0.038
		4340111	0.231
		4340115	0.004
		4340117	0.027
		4340200	0.344
		4340300	0.066
		4340600	0.106
		4340635	0.222
	Libby Creek	4300000	2.300
		4300050	0.570
		4300050-0.85R-1	0.167
		4300055	0.005
		4300057	0.050
		4300070	0.239
		4300070-0.90-1	0.138
		4300075	0.291
		4300100	0.616
		4300100-0.18L-1	0.110
		4300101	0.037
		4300102	0.042
		4300102-0.20-1	0.009
		4300103	0.060

5th Field Watershed	6th Field Watershed	Road ID	Miles of road proposed for herbicide treatment within 100 feet of Streams
		4300105	0.013
		4300130	0.763
		4300145	0.010
		4300150	0.290
		4300152	0.006
		4300175	0.028
		4300180	0.064
		4300182	0.282
		4300185	0.037
		4340000	0.151
		4340700	0.278
		4340740	0.156
		4340750	0.000
		4340755	0.050
		4340757	0.038
		4340785	0.042
		4342100	1.117
		4342100-1.57R-1	0.009
		4342200	0.047
		4342300	0.613
		C-1051	0.059
	McFarland Creek-Methow River	4330200	0.189
		4330200-4.00R-1	0.013
		4330300	0.005
		4330310	0.003
		4330400	0.520
		4330400-1.31R-1	0.009
		4330400-1.47L-1	0.000

5th Field Watershed	6th Field Watershed	Road ID	Miles of road proposed for herbicide treatment within 100 feet of Streams
		4330400-1.98R-1	0.007
		4330410	0.064
		4330420	0.022
Lower Methow River (cont.)		4330470	0.013
		C-1020-2.30L-4	0.083
	South Fork Gold Creek	4330000	0.393
		4330000-0.97L-1	0.105
		4330100	0.141
		4330200	0.162
		4330210	0.009
		4330225	0.008
	Squaw Creek	4012100	0.654
		4012100-1.78L-1	0.000
		4012125	0.392
		4012125-0.15R-1	0.010
		4012126	0.004
		4012126-0.64R-1	0.067
		4012180	0.135
		4012185	0.577
		4013200	0.514
		4013200-0.97R-1	0.004
		4013200-1.00L-1	0.006
		4013242	0.147
		4330480	0.040
Mad River Total infested miles within 100	Lower Mad River	5700000	1.277
		5701000	0.102
		5701600	0.057
		5703000	0.203

5th Field Watershed	6th Field Watershed	Road ID	Miles of road proposed for herbicide treatment within 100 feet of Streams
feet of stream channels **= 8.70**		5703300	0.645
		5709000	0.129
		5709120	0.322
		5711000	0.268
		5711050	0.013
		5711710	0.079
		5800000	0.034
		5801000	0.231
		5801715	0.090
		5801718	0.050
		5808810	0.178
		5808850	0.047
		5810313	0.049
		C119A	0.719
	Tillicum Creek	5800000	1.248
		5801731	0.010
		5808000	0.457
		5808210	0.012
		5808410	1.642
		5808810	0.059
		5810000	0.177
		5810218	0.050
		5810219	0.053
	Upper Mad River	5200000	0.061
		5700000	0.436
		9701000	0.868
		9701603	0.003
		9701605	0.003

5th Field Watershed	6th Field Watershed	Road ID	Miles of road proposed for herbicide treatment within 100 feet of Streams
Middle ForkTeanaway River-Teanaway River Total infested miles within 100 feet of stream channels **= 4.09**	Lower North Fork Teanaway River	9702115	0.139
		9702242	0.028
		9738000	0.465
		9738208	0.005
	Upper North Fork Teanaway River	9703000	0.680
		9703112	0.052
		9737000	0.957
		9737111	0.003
		9737112	0.711
		9737120	0.077
		9737220	0.003
	West Fork Teanaway River	4305000	0.042
		4305120	0.010
		4315124	0.043
Middle Methow River Total infested miles within 100 feet of stream channels **= 13.38**	Alder Creek-Methow River	4150265	0.034
		4151100	0.101
		4345200	0.264
		4345225	0.190
		4345245	0.030
		C-1065-4.07R-1	0.006
	Bear Creek	5008100	0.349
		5008200	0.238
		5008200-2.05L-1	0.048
		5008200-2.05R-1	0.056
		5008200-3.07R-2	0.030
		5008210	0.053
		5008215	0.058
		5008225	0.233

5th Field Watershed	6th Field Watershed	Road ID	Miles of road proposed for herbicide treatment within 100 feet of Streams
		5008235	0.052
		5008300	0.300
		5008315	0.234
		5008330	0.028
		5008340-0.76R-1	0.053
		5008380	0.148
		5008400	0.144
		5008400-1.22R-1	0.009
		5008450	0.046
	Benson Creek	4100000	0.010
		4100450	0.055
		4100500	0.110
		4150000	1.174
		4150000-2.93R-1	0.002
		4150195	0.007
		4150200	0.932
		4150215	0.005
		4150255	0.018
		4150259	0.011
		4150295	0.005
		4150300	0.628
		4150310	0.006
		4150325	0.287
		4150400	0.054
Middle Methow River (cont.)		4150575	0.105
	Fawn Creek-Methow River	5215040	0.047
		5215045	0.003
		5215100	0.123

5th Field Watershed	6th Field Watershed	Road ID	Miles of road proposed for herbicide treatment within 100 feet of Streams
		5215107	0.010
		5215125	0.043
		5215150	0.044
		5217100	0.940
		5217200	0.345
		5217200-0.13R-1	0.011
		5217200-0.87R-1	0.010
		5217200-0.90R-1	0.011
		5225000	0.320
		5225060	0.187
		5225075	0.344
		5225100	0.088
		5225105	0.002
	Goat Creek	5200000	0.549
		5200400	0.016
		5200635	0.007
		5217300	0.306
		5225040	0.192
		5225041	0.026
		5225042	0.041
		5225100	0.038
	Lower Beaver Creek	4100600	0.043
		4100600-0.11L-1	0.059
		4108650-1.89L-1	0.010
		4205130	0.005
		4207103	0.417
		WA-20	0.339
		4225000	0.242

5th Field Watershed	6th Field Watershed	Road ID	Miles of road proposed for herbicide treatment within 100 feet of Streams
	South Fork Beaver Creek	4230000	0.080
		4235000	0.035
	Thompson Creek-Methow River	4410000	0.253
		4410200	0.038
		4410300	0.117
		4410300-1.0L-1	0.051
		4410320	0.372
		4410375	0.006
		4410415	0.047
		4410450	0.010
	Upper Beaver Creek	4225200	1.093
		4225213	0.006
		4225230	0.171
		4230000	0.139
	Wolf Creek	4410522	0.026
Mission Creek	Brender Creek-Mission Creek	7100000	1.505
		7100000	4.442
Total infested miles within 100 feet of stream channels **= 9.07**	East Fork Mission Creek	7101000	1.123
		7102000	0.017
	Sand Creek	7104000	1.690
		7104103	0.010
		7104115	0.010
		7104120	0.013

5th Field Watershed	6th Field Watershed	Road ID	Miles of road proposed for herbicide treatment within 100 feet of Streams
		7200000	0.248
		7200200	0.009
Myers Creek Total infested miles within 100 feet of stream channels **= 2.37**	Lower Myers Creek	3575000	0.091
		3575000-8.99L-1	0.127
		3575150	0.235
		3575150-1.62R-1	0.173
		3575150-2.02R-1	0.008
		3575185	0.085
		3575190	0.046
	Middle Myers Creek	3575000	0.312
		3575280	0.040
		3575281	0.041
		3575282	0.058
		3575283	0.055
		3575284	0.245
		3575285	0.054
		3575286	0.040
		3575290	0.043
		3575295	0.099
	Upper Myers Creek	3300000	0.040
		3300060	0.024
		3300251	0.042
		3300300	0.050
		3575141	0.092
		3575144	0.321
		3575146	0.048
Nason Creek	Lower Nason Creek	6603000	0.040

5th Field Watershed	6th Field Watershed	Road ID	Miles of road proposed for herbicide treatment within 100 feet of Streams
Total infested miles within 100 feet of stream channels **= 0.35**	Upper Nason Creek	6700000	0.227
		6980000	0.087
Omak Creek-Okanogan River Total infested miles within 100 feet of stream channels = 0.01	Coulee Creek	3810200	0.009
Peshastin Creek Total infested miles within 100 feet of stream channels **= 4.97**	Lower Peshastin Creek	7200000	0.277
		7201000	0.195
		7201115	0.007
		7201215	0.005
		7201217	0.034
		7201228	0.057
	Upper Peshastin Creek	7204000	0.568
		7204214	0.026
		7224000	0.507
		7224111	0.010
		7320000	0.372
		7320111	0.003
		7320200	0.870

5th Field Watershed	6th Field Watershed	Road ID	Miles of road proposed for herbicide treatment within 100 feet of Streams
		7320230	0.011
		7322000	0.499
		7324000	1.449
		7324300	0.009
		7324500	0.031
		7324800	0.041
Rattlesnake Creek-Naches River Total infested miles within 100 feet of stream channels **= 17.21**	Dry Creek-Naches River	1601000	0.208
		1601625	0.004
		1613000	1.284
		1613270	0.007
		1613613	0.009
		1631000	0.139
		1701000	0.487
		1701517	0.269
		1711000	0.306
		1714000	0.013
	Little Rattlesnake Creek	1500000	0.205
		1501000	0.199
		1503000	0.058
		1503140	0.027
		1518000	0.216
		1518160	0.149
		1518167	0.047
		1518665	0.002
	Lost Creek-Naches River	1603254	0.203
		1607000	0.077
		1671000	0.199
		1671222	0.010

5th Field Watershed	6th Field Watershed	Road ID	Miles of road proposed for herbicide treatment within 100 feet of Streams
		1672000	0.083
		1672223	0.142
		1672224	0.038
		1700415	0.012
		1700420	0.001
		1703000	0.867
		1703538	0.011
		1703635	0.026
		1704000	0.492
Rattlesnake Creek-Naches River (cont.)	Lost Creek-Naches River	1704311	0.228
		1705000	0.382
		1705572	0.040
		1706000	0.152
		1706200	0.180
		1706213	0.003
		1707000	0.471
		1707615	0.001
		1707616	0.011
		1708000	1.307
		1708590	0.053
		1709000	0.462
		1709317	0.020
		1709350	0.085
		1791000	0.081
		1791366	0.117
		1915000	0.015
		1915737	0.023
		1915741	0.004

5th Field Watershed	6th Field Watershed	Road ID	Miles of road proposed for herbicide treatment within 100 feet of Streams
		WA-410	0.789
	Lower Rattlesnake Creek	1500000	0.240
		1500114	0.148
		1500115	0.057
		1500116	0.139
		1500135	0.029
		1500139	0.041
		1502000	0.382
		1502119	0.065
		1502130	0.044
		1503000	0.154
		1503136	0.094
		1504000	0.134
		1504185	0.095
		1506000	0.322
		1506182	0.100
		1506184	0.082
		1506187	0.063
		1506646	0.025
		1601000	0.118
		1601264	0.048
	Nile Creek	1600000	1.822
		1600214	0.115
		1600219	0.059
		1600220	0.169
		1601000	0.136
		1603000	0.033
		1603250	0.271

5th Field Watershed	6th Field Watershed	Road ID	Miles of road proposed for herbicide treatment within 100 feet of Streams
		1603262	0.007
		1605000	0.361
		1605227	0.046
		1608000	0.084
		1608615	0.007
		1611000	0.592
Rattlesnake Creek-Naches River (cont.)		1611236	0.161
	Rock Creek	1701517	0.056
		1702000	0.324
		1702615	0.032
		1720000	0.321
		1720605	0.011
Ruby Creek Total infested miles within 100 feet of stream channels **= 3.14**	Lower Granite Creek	5310900	0.028
		WA-20	1.918
	Panther Creek-Ruby Creek	WA-20	0.637
	Upper Granite Creek	5310750	0.018
		WA-20	0.541
Salmon Creek Total infested miles within 100 feet of stream channels **= 5.17**	North Fork Salmon Creek	1BCF26BA6.01	0.085
		3800000	0.731
		3800015	0.070
		3800025	0.261
		3800025-1.66R-1	0.009
		3800045	0.006
		3800110	0.132

5th Field Watershed	6th Field Watershed	Road ID	Miles of road proposed for herbicide treatment within 100 feet of Streams
		3800200	0.133
		3800360	0.081
		3800365	0.060
		3805025	0.009
		3810000	0.863
		3810000-0.62R-1	0.011
		3810000-0.64L-1	0.055
		3810000-1.06L-1	0.001
		3810000-1.57R-1	0.081
		3810000-4.05R-1	0.041
		3810100	0.084
		3810110	0.048
		C-4015	0.264
	South Fork Salmon Creek	3700100	0.255
		3700100-4.15R-1	0.039
		3700110	0.090
		3700110-0.66R-1	0.007
		3700130	0.004
		4200000	0.535
		4200400	0.048
		4200407	0.011
		4200410	0.001
	West Fork Salmon Creek	3700000	0.266
		3700200	0.277
		3700300	0.146
		3700315	0.035
		3700316	0.016
		3700400	0.088

5th Field Watershed	6th Field Watershed	Road ID	Miles of road proposed for herbicide treatment within 100 feet of Streams
Salmon Creek (cont.)		3700400-0.97R-1	0.008
		3700500	0.269
		3700525	0.010
		3700570	0.022
		3700580	0.020
Sinlahekin Creek Total infested miles within 100 feet of stream channels **= 0.02**	Lower North Fork Toats Coulee Creek	3975110	0.025
Stehekin River Total infested miles within 100 feet of stream channels **= 0.01**	Upper Bridge Creek	WA-20	0.005
Swamp Creek-Columbia River Total infested miles within 100 feet of stream channels	Antoine Creek	8021000	0.454
		8021120	0.021
		8140000	0.392
		8140210	0.184
	Long Draw-Columbia River	8010000	0.054

5th Field Watershed	6th Field Watershed	Road ID	Miles of road proposed for herbicide treatment within 100 feet of Streams
= 1.2	Swamp Creek	4100000	0.096
Taneum Creek-Yakima River Total infested miles within 100 feet of stream channels = **16.35**	Currier Creek	3500112	0.119
		3500113	0.072
		3500205	0.037
	Dry Creek	3500112	0.003
	Lower Swauk Creek	3507000	0.100
		9726115	0.125
	North Fork Taneum Creek	3120000	0.101
		3300000	0.194
		3300133	0.160
	South Fork Manastash Creek	3100000	0.379
		3104114	0.016
		3111000	0.155
		3111117	0.004
	Taneum Creek	3300000	0.045
		3300112	0.057
		3300150	0.039
		3330000	0.441
	Upper Swauk Creek	3507000	0.069
		7320000	0.175
		9700111	0.003
		9700113	0.041
		9700115	0.364
		9700119	0.506

5th Field Watershed	6th Field Watershed	Road ID	Miles of road proposed for herbicide treatment within 100 feet of Streams
		9700120	0.026
		9700121	0.042
		9700140	0.384
		9700141	0.165
		9700143	0.083
		9700145	0.049
		9700149	0.041
		9700192	0.329
		9700205	0.057
		9700207	0.037
		9700324	0.003
		9700609	0.036
		9700615	0.058
		9700623	0.017
		9700630	0.046
		9700633	0.005
		9700634	0.006
		9700635	0.004
		9702000	0.216
		9705000	0.531
		9705111	0.003
		9705112	0.050
		9705113	0.001
		9705114	0.019
		9711000	1.270
		9711113	0.036
		9711120	0.007
		9712000	1.067

5th Field Watershed	6th Field Watershed	Road ID	Miles of road proposed for herbicide treatment within 100 feet of Streams
		9712113	0.000
		9712114	0.141
		9712121	0.078
		9712128	0.003
		9712201	0.003
		9712209	0.003
		9712612	0.020
		9714000	1.209
		9714111	1.263
		9714112	0.739
		9714114	0.061
		9714116	0.002
		9714601	0.188
		9714603	0.004
		9714605	0.004
		9716000	0.342
		9718000	0.401
		9718111	0.055
		9718112	0.154
		9718114	0.674
		9718115	0.026
		9718116	0.022
		9718117	0.188
		9718118	0.508
		9718119	0.064
		9718122	0.009
		9718615	0.006
		9726000	0.109

5th Field Watershed	6th Field Watershed	Road ID	Miles of road proposed for herbicide treatment within 100 feet of Streams
		9726121	0.408
		9726123	0.066
		9726127	0.065
		9726617	0.003
		9738000	0.681
	Upper Swauk Creek (cont.)	9738115	0.008
		9738118	0.083
		9738130	0.542
		9738131	0.125
		9738132	0.279
		9738135	0.003
		9738613	0.004
		9738623	0.007
		9738801	0.007
Tieton River-Naches River Total infested miles within 100 feet of stream channels **= 12.38**	Clear Creek	1200000	0.038
		US-12	0.286
	Lower South Fork Tieton River	1000000	0.521
		1010000	0.360
		1010530	0.009
		1012550	0.082
		1040000	0.071
		1040752	0.040
		1040770	0.118
		1040781	0.077
		1050000	0.077
		1050583	0.201
		1200000	0.027
		1202000	0.046

5th Field Watershed	6th Field Watershed	Road ID	Miles of road proposed for herbicide treatment within 100 feet of Streams
		1203000	0.081
		1204750	0.092
		1204751	0.008
	Middle Tieton River	1200000	0.446
		1200570	0.418
		1201000	0.040
		1201550	0.127
		1201552	0.135
		1201562	0.012
		1201563	0.114
		1201564	0.014
Tieton River-Naches River (cont.)		1201606	0.006
		1202000	0.077
		1202571	0.197
		1305000	0.013
		1305346	0.030
		1306000	0.203
		1306365	0.053
		1500000	0.034
		US-12	0.216
	North Fork Cowiche Creek	1302520	0.026
	North Fork Tieton River	1200000	0.281
		1200530	0.096
		1207000	0.392
	Oak Creek	1400000	0.374
		1400225	0.020
		1400235	0.057

5th Field Watershed	6th Field Watershed	Road ID	Miles of road proposed for herbicide treatment within 100 feet of Streams
		1401000	1.202
		1401220	1.100
	Tieton River	1201000	0.171
		1201556	0.045
		1201557	0.039
		1300435	0.044
		1300440	0.004
		1302415	0.460
		1304000	0.091
		1401000	0.084
		1410230	0.183
		1500312	0.217
		US-12	0.732
	Upper South Fork Tieton River	1000000	0.038
	Upper Tieton River	1200000	1.411
		1200732	0.013
		1205000	0.077
		1300470	0.007
		1308000	0.173
		1382000	0.231
		1382389	0.020
		1384000	0.208
		US-12	0.319
Toroda Creek	Beaver Creek	3200000	0.653
		3200030	0.012
		3200080	0.047

5th Field Watershed	6th Field Watershed	Road ID	Miles of road proposed for herbicide treatment within 100 feet of Streams
Total infested miles within 100 feet of stream channels = 12.16 Toroda Creek (cont.)		3200085	0.041
		3240000	0.040
		C-9480	2.077
		C-9480-30.2R-1	0.008
		3550000	3.864
		3550080	0.149
	Lower Toroda Creek	3550080-1.10R-1	0.022
		3550085	0.121
		3550115	0.062
		3550122	0.313
		3550122-0.27L-1	0.023
		3550123	0.060
		3550140	0.069
		3575000	1.911
		3575015	0.131
		3575100	0.795
		3575101	0.235
		3575102	0.226
		3575106	0.006
		3575110	0.074
		3575115	0.039
		3575116	0.006
		3575123	0.016
		3575125	0.141
		3575175	0.102
		C-9495-16.3R-1	0.014
	Upper Toroda Creek	3240000	0.369
		3240169	0.011

5th Field Watershed	6th Field Watershed	Road ID	Miles of road proposed for herbicide treatment within 100 feet of Streams
		3240170	0.260
		3240171	0.008
		3240180	0.255
Twisp River Total infested miles within 100 feet of stream channels **= 14.86**	Buttermilk Creek	4300000	0.453
		4300400	0.005
		4300500	0.115
		4300500-0.13L-1	0.009
		4300550	0.204
		4300600	0.115
		4300635	0.007
		4300648	0.120
	Eagle Creek	4420000	0.047
	Headwaters Twisp River	4440000	0.040
		4440450	0.008
		4440465	0.183
	Little Bridge Creek	1ZDE06EB3.02	0.011
		1ZDE06EE7.01	0.013
		1ZDE06FC3.01	0.009
		4415000	0.797
		4415000-3.57L-2	0.038
		4415000-4.49R-1	0.003
		4415000-4.58L-1	0.008
		4415000-4.91R-1	0.315
		4415000-5.81R-1	0.007
		4415030	0.005
		4415032	0.052
		4415040	1.046

5th Field Watershed	6th Field Watershed	Road ID	Miles of road proposed for herbicide treatment within 100 feet of Streams
		4415040-1.0L-1	0.005
		4415050	0.069
		4415060	1.318
		4415060-0.00-1	0.211
		4415060-0.00-2	0.007
		4415091	0.398
		4415091-0.11L-1	0.014
		4415092	0.009
		4415093	0.149
		4415100	0.259
		4415115	0.041
		4415175	0.917
		4415175-1.44L-1	0.309
		4415177	0.010
		4415180	0.484
		4415190	0.744
		4415195	0.168
		4415197	0.007
		4415202	0.183
	Lower Twisp River	4300300	0.096
		4345215	0.032
		4350100	0.386
		4350114	0.045
		4350114-0.05R-1	0.021
		4350116	0.129
		4350125	0.042
		4350130	0.157
		4350135	0.417

5th Field Watershed	6th Field Watershed	Road ID	Miles of road proposed for herbicide treatment within 100 feet of Streams
		4350140	0.058
		4350160	0.231
		4350170	0.062
		4350180	0.112
		4410000	0.089
		4410000-1.02R-1	0.050
		4410040	0.248
		4410040-0.26L-1	0.758
	Middle Twisp River	4400000	0.230
		4400050	0.911
		4400050-1.50R-1	0.002
		4400100	0.259
		4400110	0.059
		4400155	0.009
		4415100	0.056
		4420000	0.156
		4420000-1.28R-1	0.014
		4420070	0.062
		4430000	0.163
		4430015	0.001
	Upper Twisp River	1ZDE05EC0.01	0.008
		4430000	0.081
		4435000	0.239
		4435040	0.006
		4435080	0.039
		4440000	0.655
		4440350	0.010
		4440410	0.004

5th Field Watershed	6th Field Watershed	Road ID	Miles of road proposed for herbicide treatment within 100 feet of Streams
		4440415	0.009
		4440445	0.006
	War Creek	4420000	0.038
Upper Chewuch River Total infested miles within 100 feet of stream channels **= 0.84**	Andrews Creek	5160000	0.039
	Kay Creek-Chewuch River	5160350	0.034
	Lake Creek	5160000	0.038
		5160095	0.003
		5160100	0.042
	Thirtymile Creek-Chewuch River	5160000	0.061
		5160250	0.582
	Windy Creek	3900300	0.045
Upper Lake Chelan Total infested miles within 100 feet of stream channels **= 0.91**	Falls Creek-Lake Chelan	8200000	0.682
		8250000	0.099
	Lower Railroad Creek	8301000	0.047
	Upper Railroad Creek	8301142	0.082
Upper Methow River	Early Winters Creek	5310300	0.044
		5310350	0.141

5th Field Watershed	6th Field Watershed	Road ID	Miles of road proposed for herbicide treatment within 100 feet of Streams
Total infested miles within 100 feet of stream channels **= 1.45**		WA-20	1.049
	Rattlesnake Creek-Methow River	5400000	0.204
		5400050	0.012
Upper Sanpoil River Total infested miles within 100 feet of stream channels **= 1.27**	West Fork Granite Creek	3100000	0.341
		3100000-0.41L-1	0.014
		3100011	0.064
		3100011-A	0.048
		3105100	0.014
		3125000	0.047
		3125100	0.234
		3125100-0.28R-1	0.012
		3125130	0.225
		3125130-0.49R-1	0.007
		WA-20	0.262
Wenas River Total infested miles within 100 feet of stream channels **= 2.42**	South Fork Wenas River	1713515	0.209
		1713516	0.342
		1714000	1.762
		1714610	0.010
		1714615	0.008
		1714620	0.015
		1714625	0.010
	Upper Wenas River	1701522	0.059
		6601000	0.310

5th Field Watershed	6th Field Watershed	Road ID	Miles of road proposed for herbicide treatment within 100 feet of Streams
Wenatchee River Total infested miles within 100 feet of stream channels **= 21.5**	Beaver Creek-Wenatchee River	6601110	0.134
		6601210	0.195
		6601250	0.057
		6602000	0.500
		6602000-1.0R-1	0.006
	Chumstick Creek	5200000	0.038
		6106000	0.064
		7400200	0.031
		7401121	0.031
		7401290	0.037
		7510100	0.063
		7510400	0.033
		7701000	0.040
		7702000	0.019
		7702215	0.048
		7703111	0.505
		7704000	0.328
		7704700	0.049
		7704800	0.043
		7705000	0.009
		7705400	0.056
		7707000	0.392
		7801000	1.880
		7801300	0.412
		7801600	0.089
		7801670	0.022
		7801800	0.123
		7801820	0.085

5th Field Watershed	6th Field Watershed	Road ID	Miles of road proposed for herbicide treatment within 100 feet of Streams
		7804000	0.617
		7804200	0.492
		7804240	0.151
		7804270	0.203
		7804273	0.069
		7804400	0.052
	Derby Canyon-Wenatchee River	7400000	1.615
		7400300	0.537
		7400320	0.316
		7400330	0.259
		7400400	0.000
		7401000	2.053
		7401000-0.7R-2	0.009
		7401025	0.012
		7401250	0.109
		7401270	0.052
		7402000	0.103
		7402380	0.042
		7402390	0.040
		7403000	0.008
	Eagle Creek	7401000	0.022
		7401111	0.032
		7401600	0.044
		7401650	0.006
		7500000	0.433
		7500090	0.603
		7500090-1.1R-2	0.003
		7500111	0.474

5th Field Watershed	6th Field Watershed	Road ID	Miles of road proposed for herbicide treatment within 100 feet of Streams
		7500120	0.002
		7502000	0.286
		7502111	0.040
		7510000	0.730
		7510100	0.003
		7510200	0.019
		7510300	0.011
		7520000	1.929
		7520300	0.705
		7520310	0.229
		7520315	0.004
		7520320	0.204
		7520325	0.110
		7520330	0.140
		7531000	1.093
		7531010	0.061
		7531100	0.007
		7531120	0.026
		7531135	0.002
		7531140	0.116
		7531160	0.002
		7531380	0.007
		7531600	0.053
		7805000	0.453
	Nahahum Canyon-Wenatchee River	7412100	0.068
		C109	0.067

5th Field Watershed	6th Field Watershed	Road ID	Miles of road proposed for herbicide treatment within 100 feet of Streams
	Ollala Canyon-Wenatchee River	7402000	0.169
		7402125	0.054
		7402130	0.037
		7402135	0.057
		7402315	0.023
		7402316	0.064
		7402317	0.011
		7402370	0.023
		7410111	0.111
		7410112	0.125
		7410115	0.047
		7411000	0.322
		7411100	0.139
West Fork Sanpoil River Total infested miles within 100 feet of stream channels **= 5.22**	Aeneas Creek	3000000	0.440
		3000000-10.3R-1	0.011
		3000200	0.137
		3000220	0.011
		3000226	0.000
		3000285	0.011
		3000287	0.001
		3000500	0.079
		3010018	0.014
	Cape Labelle Creek	3100202	0.029
		3100365	0.046
	Lower Lost Creek	3005100	0.081
		C-3785	0.081
		3005140	0.043

5th Field Watershed	6th Field Watershed	Road ID	Miles of road proposed for herbicide treatment within 100 feet of Streams
	Lower West Fork Sanpoil River	3005145	0.045
		3005150	0.043
		3115100	0.901
		3120020	0.108
		3120030-0.86L-1	0.015
		3120035	0.265
		3120070	0.203
		3120070-1.21R-1	0.011
		3120075	0.071
		3120075-0.69R-1	0.011
	Upper Lost Creek	3000000	0.160
		3000000-5.76L-1	0.002
	Upper West Fork Sanpoil River	3000500	0.093
		3000500-4.82R-1	0.004
		3000500-5.81L-1	0.010
		3000560	0.291
		3000560-0.95L-1	0.002
		3000600	0.129
		3100000	0.154
		3120000	0.179
		3120000-5.97R-1	0.012
		3120040	0.056
		3120200	1.108
		3125000	0.361
White River-Little Wenatchee River	Lake Creek	6701000	0.177
		6701400	0.023
	Lake Wenatchee	6607000	0.064

5th Field Watershed	6th Field Watershed	Road ID	Miles of road proposed for herbicide treatment within 100 feet of Streams
Total infested miles within 100 feet of stream channels **= 0.48**			
	Lower Little Wenatchee River	6702000	0.018
		6702300	0.113
	Rainy Creek	6700000	0.001
		6703000	0.042
		6704000	0.039
		6705000	0.006
Wilson Creek-Cherry Creek Total infested miles within 100 feet of stream channels **= 0.84**	Upper Naneum Creek	3500000	0.047
		3500126	0.184
		3500633	0.107
		3521000	0.040
		3521254	0.046
		3530000	0.363
		3530115	0.001
		9712000	0.049
		9712221	0.004