

## **Appendix A**

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Supporting GIS Analyses for Bull Trout Geographic Risk Analysis



## A.1 SUMMARY OF BULL TROUT HABITAT ON FPHCP LANDS BY BULL TROUT CORE AREA OR RECOVERY PLANNING UNIT

V.Harke, January 9, 2006

Summarized from GIS analysis completed by C. Langston, November 8, 2005.

Stream miles based on bull trout key recovery habitat/proposed critical habitat.

WRIA Totals and Core totals off by 215 miles due to segments of Columbia R, Snake R East WA border, and Pend Orielle (small segment) not in WRIA boundary.

**SR** = spawning and rearing; **FMO** = foraging, migration, and overwintering habitat

| ID# | Management Unit                   | Core Area Name      | Total SR Miles by Core Area | Total SR Miles on FP Lands by Core Area | % of total SR Miles on FP Lands | Total FMO Miles in Core Area | Total FMO Miles on FP Lands by Core Area | % of total FMO Miles on FP Lands | Total Miles Unclassified BT Habitat by Core Area | Total Miles Unclassified BT Habitat on FP Lands by Core Area | Total Miles of BT Habitat by Core Area | Total Miles of BT Habitat on FP Lands by Core Area | % of Total BT Habitat on FP Lands |
|-----|-----------------------------------|---------------------|-----------------------------|---|---------------------------------|------------------------------|--|----------------------------------|--|--|--|--|-----------------------------------|
| 6   | Lower Columbia River Basin        | Lewis River         | 35.7                        | 15.4                                    | 43%                             | 123.9                        | 57.8                                     | 47%                              | 2.7  | 0.0  | 162.2                                  | 73.2   | 45%                               |
| 36  | Puget Sound                       | Nooksack            | 141.9                       | 57.1                                    | 40%                             | 139.0                        | 38.9                                     | 28%                              | 0.0  | 0.0  | 280.9                                  | 96.0   | 34%                               |
| 45  | Umatilla-Walla Walla River Basins | Walla Walla         | 52.0                        | 19.8                                    | 38%                             | 99.4                         | 27.7                                     | 28%                              | 0.0  | 0.0  | 151.4                                  | 47.5   | 31%                               |
| 46  | Upper Columbia River Basin        | Entiat River        | 24.6                        | 7.3                                     | 30%                             | 27.2                         | 4.8                                      | 18%                              | 0.0  | 0.0  | 51.7                                   | 12.0   | 23%                               |
| 10  | Northeast Washington River Basins | Pend Oreille River  | 132.4                       | 35.5                                    | 27%                             | 105.4                        | 9.7                                      | 9%                               | 0.0  | 0.0  | 237.8                                  | 45.2   | 19%                               |
| 40  | Puget Sound                       | Stillaguamish       | 90.8                        | 22.2                                    | 24%                             | 152.9                        | 66.3                                     | 43%                              | 0.0  | 0.0  | 243.7                                  | 88.4   | 36%                               |
| 37  | Puget Sound                       | Puyallup            | 178.7                       | 40.0                                    | 22%                             | 147.4                        | 68.6                                     | 47%                              | 0.0  | 0.0  | 326.2                                  | 108.6  | 33%                               |
| 9   | Middle Columbia River Basin       | Yakima              | 254.4                       | 55.2                                    | 22%                             | 335.3                        | 74.8                                     | 22%                              | 28.6   | 8.2  | 618.3                                  | 138.1  | 22%                               |
| 39  | Puget Sound                       | Snohomish/Skykomish | 67.9                        | 8.3                                     | 12%                             | 261.9                        | 83.7                                     | 32%                              | 0.0  | 0.0  | 329.8                                  | 92.0   | 28%                               |
| 48  | Upper Columbia River Basin        | Wenatchee River     | 129.3                       | 12.9                                    | 10%                             | 110.7                        | 23.6                                     | 21%                              | 0.0  | 0.0  | 240.0                                  | 36.5   | 15%                               |
| 13  | Olympic Peninsula                 | Dungeness           | 27.7                        | 1.6                                     | 6%                              | 21.7                         | 8.1                                      | 37%                              | 0.0  | 0.0  | 49.4                                   | 9.6  | 20%                               |

| ID# | Management Unit                 | Core Area Name                                 | Total SR Miles by Core Area | Total SR Miles on FP Lands by Core Area | % of total SR Miles on FP Lands | Total FMO Miles in Core Area | Total FMO Miles on FP Lands by Core Area | % of total FMO Miles on FP Lands | Total Miles Unclassified BT Habitat by Core Area | Total Miles Unclassified BT Habitat on FP Lands by Core Area | Total Miles of BT Habitat by Core Area | Total Miles of BT Habitat on FP Lands by Core Area | % of Total BT Habitat on FP Lands |
|-----|---------------------------------|--|-----------------------------|---|---------------------------------|------------------------------|--|----------------------------------|--|--|--|--|-----------------------------------|
| 16  | Olympic Peninsula               | Hoh  | 60.3                        | 2.7                                     | 5%                              | 97.2                         | 50.2                                     | 52%                              | 0.0  | 0.0  | 157.5                                  | 53.0   | 34%                               |
| 14  | Olympic Peninsula               | Elwha  | 69.0                        | 2.7                                     | 4%                              | 36.9                         | 13.7                                     | 37%                              | 0.0  | 0.0  | 106.0                                  | 16.4   | 15%                               |
| 34  | Puget Sound                     | Lower Skagit                                   | 238.9                       | 7.7                                     | 3%                              | 353.3                        | 92.3                                     | 26%                              | 0.0  | 0.0  | 592.2                                  | 100.0  | 17%                               |
| 1   | Clark Fork River Basin          | Priest Lakes and River                         | 36.1                        | 0.9                                     | 3%                              | 0.0                          | 0.0                                      | 0%                               | 0.0  | 0.0  | 36.1                                   | 0.9  | 3%                                |
| 44  | Snake River Basin in Washington | Tucannon River                                 | 59.9                        | 1.5                                     | 3%                              | 44.1                         | 0.2                                      | 0%                               | 0.0  | 0.0  | 104.0                                  | 1.7  | 2%                                |
| 47  | Upper Columbia River Basin      | Methow River                                   | 153.3                       | 3.5                                     | 2%                              | 163.9                        | 19.3                                     | 12%                              | 0.0  | 0.0  | 317.2                                  | 22.8   | 7%                                |
| 43  | Snake River Basin in Washington | Asotin Creek                                   | 47.7                        | 0.8                                     | 2%                              | 15.0                         | 0.0                                      | 0%                               | 37.9   | 16.0   | 100.6                                  | 16.7   | 17%                               |
| 26  | Olympic Peninsula               | Skokomish                                      | 25.8                        | 0.3                                     | 1%                              | 91.6                         | 21.0                                     | 23%                              | 0.0  | 0.0  | 117.4                                  | 21.4   | 18%                               |
| 41  | Puget Sound                     | Upper Skagit                                   | 106.2                       | 0.5                                     | 0%                              | 111.3                        | 7.4                                      | 7%                               | 0.0  | 0.0  | 217.5                                  | 7.9  | 4%                                |
| 2   | Columbia River                  | Added by WWFVO for Key Habitat CBDPS/migratory | 0.0                         | 0.0                                     | 0%                              | 193.9                        | 0.3                                      | 0%                               | 0.0  | 0.0  | 193.9                                  | 0.3  | 0%                                |
| 3   | Columbia River                  | NONE   | 0.0                         | 0.0                                     | 0%                              | 538.2                        | 0.1                                      | 0%                               | 0.0  | 0.0  | 538.2                                  | 0.1  | 0%                                |
| 4   | Grande Ronde River Basin        | Grande Ronde                                   | 25.0                        | 0.0                                     | 0%                              | 37.4                         | 0.1                                      | 0%                               | 0.0  | 0.0  | 62.4                                   | 0.1  | 0%                                |
| 5   | Lower Columbia River Basin      | Klickitat River                                | 19.8                        | 0.0                                     | 0%                              | 64.6                         | 20.3                                     | 31%                              | 0.0  | 0.0  | 84.3                                   | 20.3   | 24%                               |
| 7   | Lower Columbia River Basin      | White Salmon River                             | 0.0                         | 0.0                                     | 0%                              | 18.7                         | 12.9                                     | 69%                              | 0.0  | 0.0  | 18.7                                   | 12.9   | 69%                               |
| 8   | Middle Columbia River Basin     | Added by WWFVO for Key Habitat CBDPS/migratory | 0.0                         | 0.0                                     | 0%                              | 107.8                        | 7.8                                      | 7%                               | 0.0  | 0.0  | 107.8                                  | 7.8  | 7%                                |
| 11  | Olympic Peninsula               | Bell   | 0.0                         | 0.0                                     | 0%                              | 3.8                          | 0.9                                      | 25%                              | 0.0  | 0.0  | 3.8                                    | 0.9  | 25%                               |
| 12  | Olympic Peninsula               | Chehalis                                       | 0.0                         | 0.0                                     | 0%                              | 48.8                         | 5.3                                      | 11%                              | 0.0  | 0.0  | 48.8                                   | 5.3  | 11%                               |

| ID#           | Management Unit   | Core Area Name     | Total SR Miles by Core Area | Total SR Miles on FP Lands by Core Area | % of total SR Miles on FP Lands | Total FMO Miles in Core Area | Total FMO Miles on FP Lands by Core Area | % of total FMO Miles on FP Lands | Total Miles Unclassified BT Habitat by Core Area | Total Miles Unclassified BT Habitat on FP Lands by Core Area | Total Miles of BT Habitat by Core Area | Total Miles of BT Habitat on FP Lands by Core Area | % of Total BT Habitat on FP Lands |
|---------------|-------------------|--------------------|-----------------------------|---|---------------------------------|------------------------------|--|----------------------------------|--|--|--|--|-----------------------------------|
| 15            | Olympic Peninsula | Goodman            | 0.0                         | 0.0                                     | 0%                              | 21.7                         | 8.6                                      | 40%                              | 0.0  | 0.0  | 21.7                                   | 8.6  | 40%                               |
| 17            | Olympic Peninsula | Humtulpis          | 0.0                         | 0.0                                     | 0%                              | 103.6                        | 45.0                                     | 43%                              | 0.0  | 0.0  | 103.6                                  | 45.0   | 43%                               |
| 18            | Olympic Peninsula | Kalaloch           | 0.0                         | 0.0                                     | 0%                              | 6.4                          | 4.3                                      | 67%                              | 0.0  | 0.0  | 6.4                                    | 4.3  | 67%                               |
| 19            | Olympic Peninsula | Marine             | 0.0                         | 0.0                                     | 0%                              | 447.4                        | 29.2                                     | 7%                               | 0.0  | 0.0  | 447.4                                  | 29.2   | 7%                                |
| 20            | Olympic Peninsula | Moclips/Copalis    | 0.0                         | 0.0                                     | 0%                              | 26.9                         | 16.9                                     | 63%                              | 0.0  | 0.0  | 26.9                                   | 16.9   | 63%                               |
| 21            | Olympic Peninsula | Morse              | 0.0                         | 0.0                                     | 0%                              | 16.3                         | 11.0                                     | 67%                              | 0.0  | 0.0  | 16.3                                   | 11.0   | 67%                               |
| 22            | Olympic Peninsula | Queets             | 29.2                        | 0.0                                     | 0%                              | 139.8                        | 13.8                                     | 10%                              | 0.0  | 0.0  | 169.0                                  | 13.8   | 8%                                |
| 23            | Olympic Peninsula | Quinault           | 38.3                        | 0.0                                     | 0%                              | 119.3                        | 8.0                                      | 7%                               | 0.0  | 0.0  | 157.5                                  | 8.0  | 5%                                |
| 24            | Olympic Peninsula | Raft               | 0.0                         | 0.0                                     | 0%                              | 9.0                          | 0.0                                      | 0%                               | 0.0  | 0.0  | 9.0                                    | 0.0  | 0%                                |
| 25            | Olympic Peninsula | Satsop             | 0.0                         | 0.0                                     | 0%                              | 57.5                         | 12.2                                     | 21%                              | 0.0  | 0.0  | 57.5                                   | 12.2   | 21%                               |
| 27            | Olympic Peninsula | Wishkah            | 0.0                         | 0.0                                     | 0%                              | 56.7                         | 37.3                                     | 66%                              | 0.0  | 0.0  | 56.7                                   | 37.3   | 66%                               |
| 28            | Olympic Peninsula | Wynoochee          | 0.0                         | 0.0                                     | 0%                              | 50.9                         | 12.2                                     | 24%                              | 0.0  | 0.0  | 50.9                                   | 12.2   | 24%                               |
| 29            | Puget Sound       | Chester Morse Lake | 24.9                        | 0.0                                     | 0%                              | 21.6                         | 0.0                                      | 0%                               | 0.0  | 0.0  | 46.5                                   | 0.0  | 0%                                |
| 30            | Puget Sound       | Chilliwack         | 29.8                        | 0.0                                     | 0%                              | 15.9                         | 2.9                                      | 18%                              | 0.0  | 0.0  | 45.7                                   | 2.9  | 6%                                |
| 31            | Puget Sound       | Lake Washington    | 0.0                         | 0.0                                     | 0%                              | 99.8                         | 16.3                                     | 16%                              | 0.0  | 0.0  | 99.8                                   | 16.3   | 16%                               |
| 32            | Puget Sound       | Lower Green        | 0.0                         | 0.0                                     | 0%                              | 63.3                         | 12.2                                     | 19%                              | 0.0  | 0.0  | 63.3                                   | 12.2   | 19%                               |
| 33            | Puget Sound       | Lower Nisqually    | 0.0                         | 0.0                                     | 0%                              | 45.3                         | 20.6                                     | 45%                              | 0.0  | 0.0  | 45.3                                   | 20.6   | 45%                               |
| 35            | Puget Sound       | Marine             | 0.0                         | 0.0                                     | 0%                              | 566.1                        | 39.5                                     | 7%                               | 0.0  | 0.0  | 566.1                                  | 39.5   | 7%                                |
| 38            | Puget Sound       | Samish             | 0.0                         | 0.0                                     | 0%                              | 33.2                         | 18.6                                     | 56%                              | 0.0  | 0.0  | 33.2                                   | 18.6   | 56%                               |
| 42            | Snake River       | NONE               | 0.0                         | 0.0                                     | 0%                              | 173.5                        | 0.0                                      | 0%                               | 0.0  | 0.0  | 173.5                                  | 0.0  | 0%                                |
| <b>Totals</b> |                   |                    | <b>2099.7</b>               | <b>295.7</b>                            | <b>14%</b>                      | <b>5525.1</b>                | <b>1024.3</b>                            | <b>19%</b>                       | <b>69.2</b>                                      | <b>24.1</b>  | <b>7693.9</b>                          | <b>1344.2</b>                                      | <b>17%</b>                        |

## A.2 ACRES OF FP LANDS BY LOCAL POPULATION AND FMO AREAS IN WASHINGTON

### Item: Acres of FPLands by Local Population (Spawning and Rearing Habitat) in Washington

Forest Practices Lands Union with Local Population Areas then Frequency on WRIA summing updated Area

sources: FPLands US FWS(selected areas from FFRLands.shp)  
US FWS Draft Bull Trout Recovery Plans (2004)

### Percent FP lands within Local Populations

LP Type: L= Local Population; P= Potential Local Population

| DPS                 | Management Unit      | Core Area          | Local Population Name            | LP Type | FPLP Meters <sup>2</sup> | FPLPAcres | Total LP Meters <sup>2</sup> | Total LP Acres | % FP Lands in LP |
|---------------------|----------------------|--------------------|----------------------------------|---------|--------------------------|-----------|------------------------------|----------------|------------------|
| Columbia River      | Northeast Washington | Pend Oreille River | Mill Creek PLP                   | P       | 34543056.87              | 8535.74   | 50296296.66                  | 12428.43       | 68.7             |
| Coastal-Puget Sound | Puget Sound          | Nooksack River     | Lower South Fork Nooksack River  | L       | 205272838.50             | 50723.79  | 311122442.61                 | 76879.68       | 66.0             |
| Coastal-Puget Sound | Puget Sound          | Nooksack River     | Middle North Fork Nooksack River | L       | 22669863.19              | 5601.82   | 36460772.33                  | 9009.61        | 62.2             |
| Coastal-Puget Sound | Puget Sound          | Nooksack River     | Lower Middle Fork Nooksack River | L       | 43152145.28              | 10663.08  | 70800112.43                  | 17495.01       | 60.9             |
| Columbia River      | Middle Columbia      | Yakima River       | Ahtamum Creek                    | L       | 165679112.85             | 40940.01  | 280707937.30                 | 69364.12       | 59.0             |
| Coastal-Puget Sound | Puget Sound          | Puyallup River     | Clearwater River PLP             | P       | 54169976.62              | 13385.63  | 100095846.54                 | 24734.11       | 54.1             |
| Columbia River      | Lower Columbia       | Lewis River        | Pine Creek                       | L       | 33127831.88              | 8186.03   | 61388772.54                  | 15169.43       | 54.0             |
| Coastal-Puget Sound | Puget Sound          | Nooksack River     | Lower North Fork Nooksack River  | L       | 46565441.84              | 11506.52  | 88089552.73                  | 21767.30       | 52.9             |
| Columbia River      | Northeast Washington | Pend Oreille River | Indian Creek PLP (2)             | P       | 6372461.12               | 1574.66   | 13923670.91                  | 3440.60        | 45.8             |
| Columbia River      | Northeast Washington | Pend Oreille River | Le Clerc Creek                   | L       | 87577280.52              | 21640.72  | 195927628.42                 | 48414.55       | 44.7             |
| Columbia River      | Umatilla-Walla Walla | Walla Walla River  | South Fork Touchet River         | L       | 21990311.83              | 5433.90   | 50514723.13                  | 12482.40       | 43.5             |
| Columbia River      | Northeast Washington | Pend Oreille River | SFK Tacoma Creek PLP             | P       | 15513244.18              | 3833.39   | 41977175.22                  | 10372.74       | 37.0             |
| Coastal-Puget Sound | Puget Sound          | Puyallup River     | Upper Puyallup & Mowich Rivers   | L       | 81558267.01              | 20153.39  | 236698629.89                 | 58489.24       | 34.5             |
| Columbia River      | Northeast Washington | Pend Oreille River | Tacoma Creek PLP                 | P       | 21686525.76              | 5358.83   | 64167465.39                  | 15856.05       | 33.8             |
| Columbia River      | Umatilla-Walla Walla | Walla Walla River  | Wolf Fork Touchet River          | L       | 8919405.46               | 2204.02   | 26540200.22                  | 6558.20        | 33.6             |

| DPS                 | Management Unit                 | Core Area                 | Local Population Name            | LP Type | FPLP Meters^2 | FPLPAcres | Total LP Meters^2 | Total LP Acres | % FP Lands in LP |
|---------------------|---------------------------------|---------------------------|----------------------------------|---------|---------------|-----------|-------------------|----------------|------------------|
| Columbia River      | Northeast Washington            | Pend Oreille River        | Small Creek PLP                  | P       | 23285907.61   | 5754.05   | 69649989.48       | 17210.81       | 33.4             |
| Columbia River      | Lower Columbia                  | Lewis River               | Cougar Creek                     | L       | 13017206.92   | 3216.61   | 42952865.26       | 10613.84       | 30.3             |
| Columbia River      | Middle Columbia                 | Yakima River              | NFk Teanaway River               | L       | 72079476.65   | 17811.15  | 246054831.49      | 60801.19       | 29.3             |
| Columbia River      | Umatilla-Walla Walla            | Walla Walla River         | North Fork Touchet River         | L       | 44596104.01   | 11019.89  | 155626624.58      | 38456.00       | 28.7             |
| Columbia River      | Northeast Washington            | Pend Oreille River        | Harvey Creek PLP                 | P       | 22666909.21   | 5601.09   | 103225658.43      | 25507.50       | 22.0             |
| Coastal-Puget Sound | Puget Sound                     | Puyallup River            | Carbon River                     | L       | 45418035.86   | 11222.99  | 209613705.18      | 51796.44       | 21.7             |
| Columbia River      | Middle Columbia                 | Yakima River              | Upper Yakima River               | L       | 33501441.59   | 8278.35   | 157379201.13      | 38889.07       | 21.3             |
| Columbia River      | Upper Columbia                  | Wenatchee River           | Nason Creek                      | L       | 58765608.43   | 14521.23  | 283565673.94      | 70070.28       | 20.7             |
| Coastal-Puget Sound | Puget Sound                     | Stillaguamish River       | Canyon Creek                     | L       | 20967258.39   | 5181.10   | 116759193.39      | 28851.69       | 18.0             |
| Columbia River      | Northeast Washington            | Pend Oreille River        | Cedar Creek PLP                  | P       | 6674777.22    | 1649.37   | 47167291.28       | 11655.24       | 14.2             |
| Columbia River      | Snake River Basin in Washington | Asotin Creek              | Wormell Gulch PLP                | P       | 27499293.42   | 6795.19   | 196793317.26      | 48628.47       | 14.0             |
| Coastal-Puget Sound | Puget Sound                     | Puyallup River            | West Fork White River            | L       | 22593180.92   | 5582.87   | 169936856.43      | 41992.12       | 13.3             |
| Coastal-Puget Sound | Puget Sound                     | Stillaguamish River       | North Fork Stillaguamish River   | L       | 32300844.27   | 7981.68   | 248092598.49      | 61304.74       | 13.0             |
| Coastal-Puget Sound | Puget Sound                     | Nooksack River            | Glacier Creek                    | L       | 10074280.86   | 2489.40   | 82231071.52       | 20319.65       | 12.3             |
| Coastal-Puget Sound | Puget Sound                     | Stillaguamish River       | Upper Deer Creek                 | L       | 10185930.90   | 2516.99   | 91455147.49       | 22598.96       | 11.1             |
| Coastal-Puget Sound | Olympic Peninsula               | Elwha River               | Little River PLP                 | P       | 6493187.86    | 1604.49   | 59253269.39       | 14641.73       | 11.0             |
| Coastal-Puget Sound | Puget Sound                     | Nooksack River            | Lower Canyon Creek               | L       | 8685365.08    | 2146.19   | 79994770.26       | 19767.05       | 10.9             |
| Coastal-Puget Sound | Puget Sound                     | Puyallup River            | Greenwater River                 | L       | 14189253.18   | 3506.22   | 131555236.55      | 32507.86       | 10.8             |
| Coastal-Puget Sound | Puget Sound                     | Nooksack River            | Upper Middle Fork Nooksack River | L       | 17782573.47   | 4394.15   | 186424409.24      | 46066.26       | 9.5              |
| Columbia River      | Upper Columbia                  | Wenatchee River           | Chiwaukum Creek                  | L       | 10887095.80   | 2690.25   | 125737814.66      | 31070.35       | 8.7              |
| Columbia River      | Middle Columbia                 | Yakima River              | Cle Elum River                   | L       | 47012911.45   | 11617.09  | 573264379.73      | 141656.06      | 8.2              |
| Columbia River      | Clark Fork                      | Priest Lake               | Granite Creek                    | L       | 13220990.31   | 3266.96   | 164008632.37      | 40527.23       | 8.1              |
| Coastal-Puget Sound | Olympic Peninsula               | Dungeness River           | Dungeness River                  | L       | 7414070.95    | 1832.05   | 92001990.16       | 22734.08       | 8.1              |
| Columbia River      | Middle Columbia                 | Yakima River              | SFk Tieton River                 | L       | 18037030.28   | 4457.03   | 231892204.83      | 57301.55       | 7.8              |
| Columbia River      | Middle Columbia                 | Yakima River              | Gold Creek (2)                   | L       | 10993212.23   | 2716.47   | 146631065.45      | 36233.16       | 7.5              |
| Coastal-Puget Sound | Puget Sound                     | Snohomish/Skykomish River | South Fork Skykomish River       | L       | 51790619.67   | 12797.68  | 711690976.17      | 175861.86      | 7.3              |
| Coastal-Puget Sound | Puget Sound                     | Lower Skagit River        | Illabot Creek                    | L       | 7100592.27    | 1754.59   | 111618521.66      | 27581.41       | 6.4              |

| DPS                 | Management Unit                 | Core Area                 | Local Population Name           | LP Type | FPLP Meters^2 | FPLPAcres | Total LP Meters^2 | Total LP Acres | % FP Lands in LP |
|---------------------|---------------------------------|---------------------------|---------------------------------|---------|---------------|-----------|-------------------|----------------|------------------|
| Columbia River      | Upper Columbia                  | Entiat River              | Entiat River                    | L       | 19996327.68   | 4941.18   | 326352377.70      | 80643.06       | 6.1              |
| Columbia River      | Upper Columbia                  | Entiat River              | Mad River                       | L       | 14268452.79   | 3525.80   | 236301378.59      | 58391.07       | 6.0              |
| Columbia River      | Northeast Washington            | Pend Oreille River        | Ruby Creek PLP (2)              | P       | 4688247.42    | 1158.49   | 80168540.18       | 19809.99       | 5.8              |
| Columbia River      | Middle Columbia                 | Yakima River              | Kachess River                   | L       | 6966021.72    | 1721.33   | 133793833.00      | 33061.02       | 5.2              |
| Columbia River      | Snake River Basin in Washington | Tucannon River            | Little Tucannon River           | P       | 904629.27     | 223.54    | 19445593.21       | 4805.09        | 4.7              |
| Coastal-Puget Sound | Puget Sound                     | Puyallup River            | Upper White River               | L       | 16337960.05   | 4037.18   | 389023161.91      | 96129.28       | 4.2              |
| Columbia River      | Umatilla-Walla Walla            | Walla Walla River         | Mill Creek (2)                  | L       | 2207286.86    | 545.43    | 54393126.95       | 13440.77       | 4.1              |
| Columbia River      | Upper Columbia                  | Wenatchee River           | White River                     | L       | 17877852.79   | 4417.69   | 475399132.66      | 117473.15      | 3.8              |
| Coastal-Puget Sound | Puget Sound                     | Lower Skagit River        | Upper South Fork Sauk River     | L       | 1762342.76    | 435.48    | 46933641.22       | 11597.50       | 3.8              |
| Columbia River      | Upper Columbia                  | Wenatchee River           | Chiwawa River                   | L       | 16122987.96   | 3984.06   | 488898065.55      | 120808.79      | 3.3              |
| Coastal-Puget Sound | Puget Sound                     | Nooksack River            | Wanlick Creek                   | L       | 800251.59     | 197.75    | 25396597.22       | 6275.61        | 3.2              |
| Columbia River      | Upper Columbia                  | Wenatchee River           | Icicle Creek                    | L       | 15398943.82   | 3805.14   | 555239804.94      | 137202.12      | 2.8              |
| Columbia River      | Snake River Basin in Washington | Asotin Creek              | NFk Asotin River                | L       | 7385245.36    | 1824.93   | 269436328.17      | 66578.86       | 2.7              |
| Coastal-Puget Sound | Puget Sound                     | Snohomish/Skykomish River | North Fork Skykomish River      | L       | 5808846.53    | 1435.39   | 214209055.84      | 52931.97       | 2.7              |
| Columbia River      | Middle Columbia                 | Yakima River              | Rattlesnake Creek               | L       | 7282721.08    | 1799.59   | 282061219.95      | 69698.53       | 2.6              |
| Columbia River      | Middle Columbia                 | Yakima River              | Taneum Creek PLP                | P       | 4045632.29    | 999.69    | 161794007.67      | 39979.99       | 2.5              |
| Coastal-Puget Sound | Puget Sound                     | Stillaguamish River       | South Fork Stillaguamish River  | L       | 3857836.24    | 953.29    | 188211621.8       | 46507.89       | 2.0              |
| Coastal-Puget Sound | Olympic Peninsula               | Skokomish River           | Brown Creek PLP                 | P       | 356013.10     | 87.97     | 20648589.08       | 5102.35        | 1.7              |
| Columbia River      | Snake River Basin in Washington | Tucannon River            | Cummings Creek                  | L       | 855238.82     | 211.33    | 51592993.67       | 12748.85       | 1.7              |
| Columbia River      | Upper Columbia                  | Methow River              | Wolf Creek                      | L       | 1537823.80    | 380.00    | 104539111.95      | 25832.06       | 1.5              |
| Coastal-Puget Sound | Puget Sound                     | Snohomish/Skykomish River | Troublesome Creek               | L       | 451979.66     | 111.69    | 33595484.27       | 8301.59        | 1.3              |
| Coastal-Puget Sound | Puget Sound                     | Lower Skagit River        | Tenas Creek                     | L       | 342250.80     | 84.57     | 27136907.66       | 6705.65        | 1.3              |
| Columbia River      | Upper Columbia                  | Methow River              | Gold Creek (3)                  | L       | 1487478.18    | 367.56    | 157497562.68      | 38918.32       | 0.9              |
| Columbia River      | Upper Columbia                  | Wenatchee River           | Peshastin Creek                 | L       | 739881.91     | 182.83    | 95285192.17       | 23545.38       | 0.8              |
| Coastal-Puget Sound | Puget Sound                     | Nooksack River            | Upper North Fork Nooksack River | L       | 908134.79     | 224.40    | 119013354.02      | 29408.71       | 0.8              |



| DPS                 | Management Unit                 | Core Area                 | Local Population Name            | LP Type | FPLP Meters^2 | FPLPAcres | Total LP Meters^2 | Total LP Acres | % FP Lands in LP |
|---------------------|---------------------------------|---------------------------|----------------------------------|---------|---------------|-----------|-------------------|----------------|------------------|
| Columbia River      | Upper Columbia                  | Methow River              | Twisp River                      | L       | 3933944.93    | 972.09    | 535294369.00      | 132273.51      | 0.7              |
| Columbia River      | Clark Fork                      | Priest Lake               | Kalispell Creek                  | L       | 392375.98     | 96.96     | 60538130.26       | 14959.23       | 0.6              |
| Columbia River      | Snake River Basin in Washington | Tucannon River            | Tucannon River                   | L       | 724250.16     | 178.97    | 116375742.05      | 28756.94       | 0.6              |
| Coastal-Puget Sound | Olympic Peninsula               | Hoh River                 | South Fork Hoh River             | L       | 783781.42     | 193.68    | 138091398.33      | 34122.97       | 0.6              |
| Coastal-Puget Sound | Puget Sound                     | Lower Skagit River        | Bacon Creek                      | L       | 702252.86     | 173.53    | 132209383.64      | 32669.50       | 0.5              |
| Coastal-Puget Sound | Puget Sound                     | Chilliwack River          | Silesia Creek                    | L       | 544987.00     | 134.67    | 102852739.98      | 25415.35       | 0.5              |
| Coastal-Puget Sound | Puget Sound                     | Upper Skagit River        | Ruby Creek                       | L       | 2293041.17    | 566.62    | 453638382.32      | 112095.97      | 0.5              |
| Coastal-Puget Sound | Puget Sound                     | Upper Skagit River        | Thunder Creek                    | L       | 1412946.73    | 349.15    | 280912893.69      | 69414.77       | 0.5              |
| Columbia River      | Upper Columbia                  | Wenatchee River           | Little Wenatchee River           | L       | 1185417.29    | 292.92    | 262289868.99      | 64812.94       | 0.5              |
| Coastal-Puget Sound | Puget Sound                     | Lower Skagit River        | South Fork Cascade River         | L       | 402536.82     | 99.47     | 93891158.18       | 23200.90       | 0.4              |
| Columbia River      | Upper Columbia                  | Methow River              | Goat Creek                       | L       | 364145.51     | 89.98     | 93182917.42       | 23025.89       | 0.4              |
| Coastal-Puget Sound | Puget Sound                     | Lower Skagit River        | Sulphur Creek (Lake Shannon) PLP | P       | 101171.88     | 25.00     | 26073578.45       | 6442.89        | 0.4              |
| Coastal-Puget Sound | Puget Sound                     | Lower Skagit River        | Baker Lake                       | L       | 2086969.66    | 515.70    | 557660481.58      | 137800.28      | 0.4              |
| Coastal-Puget Sound | Puget Sound                     | Lower Skagit River        | Forks of Sauk River              | L       | 874294.51     | 216.04    | 275909664.86      | 68178.45       | 0.3              |
| Coastal-Puget Sound | Puget Sound                     | Chester Morse             | Cedar River                      | L       | 345530.28     | 85.38     | 111190661.88      | 27475.69       | 0.3              |
| Columbia River      | Middle Columbia                 | Yakima River              | Bumping River                    | L       | 703485.29     | 173.83    | 234067543.64      | 57839.08       | 0.3              |
| Columbia River      | Grande Ronde                    | Grande Ronde River        | Crooked Creek                    | L       | 551999.25     | 136.40    | 193525775.04      | 47821.04       | 0.3              |
| Coastal-Puget Sound | Olympic Peninsula               | Skokomish River           | North Fork Skokomish River       | L       | 290245.06     | 71.72     | 110709761.92      | 27356.85       | 0.3              |
| Coastal-Puget Sound | Puget Sound                     | Snohomish/Skykomish River | Salmon Creek                     | L       | 52518.08      | 12.98     | 21466154.76       | 5304.38        | 0.2              |
| Columbia River      | Upper Columbia                  | Methow River              | Early Winters Creek              | L       | 464371.04     | 114.75    | 208315024.67      | 51475.53       | 0.2              |
| Columbia River      | Middle Columbia                 | Yakima River              | American River                   | L       | 457643.94     | 113.09    | 205663548.53      | 50820.34       | 0.2              |
| Coastal-Puget Sound | Olympic Peninsula               | Skokomish River           | South Fork Skokomish River       | L       | 192050.18     | 47.46     | 99585586.53       | 24608.02       | 0.2              |
| Columbia River      | Middle Columbia                 | Yakima River              | NFk Tieton River                 | L       | 510365.78     | 126.11    | 296004604.98      | 73144.00       | 0.2              |
| Columbia River      | Upper Columbia                  | Methow River              | WFk Methow River                 | L       | 334429.95     | 82.64     | 220965562.31      | 54601.53       | 0.2              |
| Columbia River      | Northeast Washington            | Pend Oreille River        | Sullivan Creek PLP               | P       | 242940.07     | 60.03     | 184744414.20      | 45651.13       | 0.1              |
| Coastal-Puget Sound | Puget Sound                     | Lower Skagit River        | Goodell Creek                    | L       | 119107.27     | 29.43     | 101342237.76      | 25042.10       | 0.1              |
| Columbia River      | Upper Columbia                  | Methow River              | Lost River                       | L       | 364598.86     | 90.09     | 434619951.28      | 107396.44      | 0.1              |

| DPS                 | Management Unit   | Core Area          | Local Population Name     | LP Type | FPLP Meters^2 | FPLPAcres | Total LP Meters^2 | Total LP Acres | % FP Lands in LP |
|---------------------|-------------------|--------------------|---------------------------|---------|---------------|-----------|-------------------|----------------|------------------|
| Coastal-Puget Sound | Puget Sound       | Chester Morse      | Boulder Creek             | L       | 44347.70      | 10.96     | 59438925.24       | 14687.61       | 0.1              |
| Columbia River      | Upper Columbia    | Methow River       | Chewack River             | L       | 545788.07     | 134.87    | 843465677.47      | 208423.95      | 0.1              |
| Coastal-Puget Sound | Puget Sound       | Lower Skagit River | Newhalem Creek            | L       | 6348.50       | 1.57      | 70782011.48       | 17490.54       | 0.0              |
| Coastal-Puget Sound | Puget Sound       | Lower Skagit River | Stetattle Creek           | L       | 2234.46       | 0.55      | 58498126.91       | 14455.14       | 0.0              |
| Columbia River      | Middle Columbia   | Yakima River       | Crow Creek                | L       | 4928.92       | 1.22      | 220615085.66      | 54514.93       | 0.0              |
| Coastal-Puget Sound | Puget Sound       | Upper Skagit River | Little Beaver Creek       | L       | 3003.89       | 0.74      | 139328300.20      | 34428.62       | 0.0              |
| Coastal-Puget Sound | Puget Sound       | Upper Skagit River | Lightning Creek           | L       | 3396.72       | 0.84      | 293953034.61      | 72637.04       | 0.0              |
| Coastal-Puget Sound | Puget Sound       | Upper Skagit River | Big Beaver Creek          | L       | 648.71        | 0.16      | 170933161.30      | 42238.31       | 0.0              |
| Coastal-Puget Sound | Olympic Peninsula | Queets River       | Queets River              | L       | 421.80        | 0.10      | 190231817.75      | 47007.09       | 0.0              |
| Coastal-Puget Sound | Puget Sound       | Upper Skagit River | Silver Creek              | L       | 40.21         | 0.01      | 43234003.26       | 10683.31       | 0.0              |
| Coastal-Puget Sound | Olympic Peninsula | Dungeness River    | Gray Wolf River           | L       | 0.00          | 0.00      | 197282841.57      | 48749.43       | 0.0              |
| Coastal-Puget Sound | Olympic Peninsula | Elwha River        | Elwha River               | L       | 0.00          | 0.00      | 634061211.21      | 156679.22      | 0.0              |
| Coastal-Puget Sound | Olympic Peninsula | Hoh River          | Hoh River                 | L       | 0.00          | 0.00      | 267591191.41      | 66122.92       | 0.0              |
| Coastal-Puget Sound | Olympic Peninsula | Quinault River     | North Fork Quinault River | L       | 0.00          | 0.00      | 172172626.81      | 42544.59       | 0.0              |
| Coastal-Puget Sound | Olympic Peninsula | Quinault River     | Upper Quinault River      | L       | 0.00          | 0.00      | 232794043.87      | 57524.40       | 0.0              |
| Coastal-Puget Sound | Puget Sound       | Chester Morse      | Rack Creek                | L       | 0.00          | 0.00      | 5699901.34        | 1408.47        | 0.0              |
| Coastal-Puget Sound | Puget Sound       | Chester Morse      | Shotgun Creek PLP         | P       | 0.00          | 0.00      | 2083696.34        | 514.89         | 0.0              |
| Coastal-Puget Sound | Puget Sound       | Chilliwack River   | Depot Creek               | L       | 0.00          | 0.00      | 32372816.37       | 7999.46        | 0.0              |
| Coastal-Puget Sound | Puget Sound       | Chilliwack River   | Little Chilliwack River   | L       | 0.00          | 0.00      | 32994190.11       | 8153.00        | 0.0              |
| Coastal-Puget Sound | Puget Sound       | Chilliwack River   | Upper Chilliwack River    | L       | 0.00          | 0.00      | 141938868.12      | 35073.70       | 0.0              |
| Coastal-Puget Sound | Puget Sound       | Lower Skagit River | Buck Creek                | L       | 0.00          | 0.00      | 88080333.50       | 21765.02       | 0.0              |
| Coastal-Puget Sound | Puget Sound       | Lower Skagit River | Cascade River             | L       | 0.00          | 0.00      | 84448347.49       | 20867.55       | 0.0              |
| Coastal-Puget Sound | Puget Sound       | Lower Skagit River | Downey Creek              | L       | 0.00          | 0.00      | 92443834.56       | 22843.26       | 0.0              |
| Coastal-Puget Sound | Puget Sound       | Lower Skagit River | Lime Creek                | L       | 0.00          | 0.00      | 45572082.96       | 11261.06       | 0.0              |
| Coastal-Puget Sound | Puget Sound       | Lower Skagit River | Lower Whitechuck River    | L       | 0.00          | 0.00      | 121148312.20      | 29936.26       | 0.0              |
| Coastal-Puget Sound | Puget Sound       | Lower Skagit River | Milk Creek                | L       | 0.00          | 0.00      | 37596205.82       | 9290.18        | 0.0              |
| Coastal-Puget Sound | Puget Sound       | Lower Skagit River | Straight Creek            | L       | 0.00          | 0.00      | 29191101.50       | 7213.25        | 0.0              |
| Coastal-Puget Sound | Puget Sound       | Lower Skagit River | Sulphur Creek             | L       | 0.00          | 0.00      | 85228584.20       | 21060.35       | 0.0              |
| Coastal-Puget Sound | Puget Sound       | Lower Skagit River | Upper Suiattle River      | L       | 0.00          | 0.00      | 232881665.35      | 57546.05       | 0.0              |

| DPS                 | Management Unit                 | Core Area          | Local Population Name           | LP Type | FPLP Meters^2 | FPLPAcres | Total LP Meters^2 | Total LP Acres | % FP Lands in LP |
|---------------------|---------------------------------|--------------------|---------------------------------|---------|---------------|-----------|-------------------|----------------|------------------|
| Coastal-Puget Sound | Puget Sound                     | Lower Skagit River | Upper Whitechuck River          | L       | 0.00          | 0.00      | 99447435.67       | 24573.88       | 0.0              |
| Coastal-Puget Sound | Puget Sound                     | Nooksack River     | Upper South Fork Nooksack River | L       | 0.00          | 0.00      | 54017108.85       | 13347.86       | 0.0              |
| Coastal-Puget Sound | Puget Sound                     | Upper Skagit River | Deer Creek PLP                  | P       | 0.00          | 0.00      | 947633.51         | 234.16         | 0.0              |
| Coastal-Puget Sound | Puget Sound                     | Upper Skagit River | Panther Creek                   | L       | 0.00          | 0.00      | 95438997.04       | 23583.38       | 0.0              |
| Coastal-Puget Sound | Puget Sound                     | Upper Skagit River | Pierce Creek                    | L       | 0.00          | 0.00      | 10413525.11       | 2573.23        | 0.0              |
| Columbia River      | Clark Fork                      | Priest Lake        | Gold Creek                      | L       | 0.00          | 0.00      | 62184145.09       | 15365.97       | 0.0              |
| Columbia River      | Grande Ronde                    | Grande Ronde River | Butte Creek                     | L       | 0.00          | 0.00      | 107266806.89      | 26506.08       | 0.0              |
| Columbia River      | Grande Ronde                    | Grande Ronde River | North Fork Wenaha River         | L       | 0.00          | 0.00      | 45695792.13       | 11291.62       | 0.0              |
| Columbia River      | Lower Columbia                  | Klickitat River    | West Fork Klickitat River       | L       | 0.00          | 0.00      | 236487594.04      | 58437.09       | 0.0              |
| Columbia River      | Lower Columbia                  | Lewis River        | Rush Creek                      | L       | 0.00          | 0.00      | 68288213.28       | 16874.31       | 0.0              |
| Columbia River      | Lower Columbia                  | Lewis River        | Upper Lewis River PLP           | P       | 0.00          | 0.00      | 298654503.83      | 73798.80       | 0.0              |
| Columbia River      | Middle Columbia                 | Yakima River       | Box Cayon Creek                 | L       | 0.00          | 0.00      | 32235965.36       | 7965.64        | 0.0              |
| Columbia River      | Middle Columbia                 | Yakima River       | Deep Creek                      | L       | 0.00          | 0.00      | 62707141.83       | 15495.20       | 0.0              |
| Columbia River      | Middle Columbia                 | Yakima River       | Indian Creek                    | L       | 0.00          | 0.00      | 42684545.47       | 10547.53       | 0.0              |
| Columbia River      | Northeast Washington            | Pend Oreille River | Slate Creek PLP                 | P       | 0.00          | 0.00      | 83142842.45       | 20544.95       | 0.0              |
| Columbia River      | Snake River Basin in Washington | Asotin Creek       | Charley Creek                   | L       | 0.00          | 0.00      | 58500765.98       | 14455.79       | 0.0              |
| Columbia River      | Snake River Basin in Washington | Tucannon River     | Hixon Creek                     | P       | 0.00          | 0.00      | 8046914.79        | 1988.43        | 0.0              |
| Columbia River      | Snake River Basin in Washington | Tucannon River     | Little Turkey Creek             | L       | 0.00          | 0.00      | 6088353.65        | 1504.46        | 0.0              |
| Columbia River      | Snake River Basin in Washington | Tucannon River     | Meadow Creek                    | L       | 0.00          | 0.00      | 18276718.64       | 4516.25        | 0.0              |
| Columbia River      | Snake River Basin in Washington | Tucannon River     | Panjab Creek                    | L       | 0.00          | 0.00      | 30034459.97       | 7421.64        | 0.0              |
| Columbia River      | Snake River Basin in Washington | Tucannon River     | Turkey Creek                    | L       | 0.00          | 0.00      | 11630064.09       | 2873.84        | 0.0              |
| Columbia River      | Upper Columbia                  | Methow River       | Blue Buck Creek PLP             | L       | 0.00          | 0.00      | 21969995.68       | 5428.88        | 0.0              |
|                     |                                 |                    |                                 |         | 1679463868.96 | 415002.66 | 22650998262.43    | 5597157.94     | 7.4              |

**Item: Acres of FP Lands by Recovery Plan FMO Areas in Washington (includes FMO Areas in Core Areas)**

Copy FMO columns from FPLANDS LP - CORE = FFMO spreadsheet

sources: FPLands US FWS(selected areas from FFRLands.shp)  
US FWS Draft Bull Trout Recovery Plans (2004)

**Percent FP lands within Core Area FMO**

| #  | DPS                 | Management Unit   | Area Type  | Area Name (Core, FMO, RN) | FP Acres for FMO | Total Acres for FMO | % FP Lands in Areas FMO | Total RP Acres | %FP Lands for FMO in entire Core |
|----|---------------------|-------------------|------------|---------------------------|------------------|---------------------|-------------------------|----------------|----------------------------------|
| 20 | Coastal-Puget Sound | Olympic Peninsula | FMO Marine | Hood Canal                | 4928.67          | 95683.64            | 5.2                     | 95683.64       |                                  |
| 38 | Coastal-Puget Sound | Puget Sound       | FMO Marine | Puget Sound               | 57980.20         | 1187643.24          | 4.9                     | 1187643.24     |                                  |
| 19 | Coastal-Puget Sound | Olympic Peninsula | FMO Marine | Grays Harbor              | 441.14           | 62306.23            | 0.7                     | 62306.23       |                                  |
| 21 | Coastal-Puget Sound | Olympic Peninsula | FMO Marine | Pacific Coast             | 2753.30          | 515684.37           | 0.5                     | 515684.37      |                                  |
| 22 | Coastal-Puget Sound | Olympic Peninsula | FMO Marine | Strait of Juan DeFuca     | 92.89            | 562734.10           | 0.0                     | 562734.10      |                                  |
| 17 | Coastal-Puget Sound | Olympic Peninsula | FMO        | Wishkah                   | 56808.48         | 65799.08            | 86.3                    | 65799.08       |                                  |
| 36 | Coastal-Puget Sound | Puget Sound       | FMO        | Lower Nisqually           | 184253.68        | 301623.34           | 61.1                    | 301623.34      |                                  |
| 11 | Coastal-Puget Sound | Olympic Peninsula | FMO        | Humptulips                | 93623.01         | 157871.53           | 59.3                    | 157871.53      |                                  |
| 14 | Coastal-Puget Sound | Olympic Peninsula | FMO        | Moclips/Copalis           | 55902.36         | 100493.92           | 55.6                    | 100493.92      |                                  |
| 37 | Coastal-Puget Sound | Puget Sound       | FMO        | Samish                    | 44119.49         | 81375.48            | 54.2                    | 81375.48       |                                  |
| 10 | Coastal-Puget Sound | Olympic Peninsula | FMO        | Goodman                   | 18838.99         | 40434.04            | 46.6                    | 40434.04       |                                  |
| 9  | Coastal-Puget Sound | Olympic Peninsula | FMO        | Chehalis                  | 159203.39        | 344566.71           | 46.2                    | 344566.71      |                                  |
| 15 | Coastal-Puget Sound | Olympic Peninsula | FMO        | Morse                     | 31724.25         | 71823.82            | 44.2                    | 71823.82       |                                  |
| 35 | Coastal-Puget Sound | Puget Sound       | FMO        | Lower Green               | 74818.36         | 177880.73           | 42.1                    | 177880.73      |                                  |
| 18 | Coastal-Puget Sound | Olympic Peninsula | FMO        | Wynoochee                 | 52392.81         | 125451.34           | 41.8                    | 125451.34      |                                  |
| 12 | Coastal-Puget Sound | Olympic Peninsula | FMO        | Kalaloch                  | 4905.59          | 13648.90            | 35.9                    | 13648.90       |                                  |
| 8  | Coastal-Puget Sound | Olympic Peninsula | FMO        | Cedar/Steamboat           | 4659.58          | 13129.58            | 35.5                    | 13129.58       |                                  |

| #  | DPS                 | Management Unit      | Area Type    | Area Name (Core, FMO, RN) | FP Acres for FMO | Total Acres for FMO | % FP Lands in Areas FMO | Total RP Acres | %FP Lands for FMO in entire Core |
|----|---------------------|----------------------|--------------|---------------------------|------------------|---------------------|-------------------------|----------------|----------------------------------|
| 34 | Coastal-Puget Sound | Puget Sound          | FMO          | Lake Washington           | 103205.31        | 331958.56           | 31.1                    | 331958.56      |                                  |
| 7  | Coastal-Puget Sound | Olympic Peninsula    | FMO          | Bell                      | 3962.32          | 12938.02            | 30.6                    | 12938.02       |                                  |
| 16 | Coastal-Puget Sound | Olympic Peninsula    | FMO          | Satsop                    | 43702.36         | 189525.95           | 23.1                    | 189525.95      |                                  |
| 50 | Columbia River      | Lower Columbia       | FMO          | Columbia                  | 1977.67          | 148141.39           | 1.3                     | 148141.39      |                                  |
| 13 | Coastal-Puget Sound | Olympic Peninsula    | FMO          | Raft                      | 0.00             | 90344.66            | 0.0                     | 90344.66       |                                  |
| 49 | Columbia River      | Lower Columbia       | Core Habitat | White Salmon              | 109225.57        | 217308.69           | 50.3                    | 217308.69      |                                  |
| 44 | Columbia River      | Coeur d'Alene Lake   | Core Area    | Coeur d'Alene Lake        | 7203.58          | 8690.77             | 82.9                    | 8690.77        | 82.9                             |
| 47 | Columbia River      | Lower Columbia       | Core Area    | Klickitat                 | 301728.25        | 806027.31           | 37.4                    | 864464.40      | 34.9                             |
| 30 | Coastal-Puget Sound | Puget Sound          | Core Area    | Puyallup                  | 226404.13        | 359021.78           | 63.1                    | 664670.82      | 34.1                             |
| 31 | Coastal-Puget Sound | Puget Sound          | Core Area    | Snohomish/<br>Skykomish   | 385865.47        | 929972.07           | 41.5                    | 1172371.87     | 32.9                             |
| 32 | Coastal-Puget Sound | Puget Sound          | Core Area    | Stillaguamish             | 144079.64        | 291683.09           | 49.4                    | 450946.37      | 32.0                             |
| 41 | Columbia River      | Clark Fork           | Core Area    | Lake Pend Orielle         | 21681.78         | 77322.23            | 28.0                    | 77322.23       | 28.0                             |
| 53 | Columbia River      | Northeast Washington | Core Area    | Pend Oreille              | 160531.34        | 433241.29           | 37.1                    | 664133.27      | 24.2                             |
| 48 | Columbia River      | Lower Columbia       | Core Area    | Lewis                     | 116414.14        | 415444.03           | 28.0                    | 531900.40      | 21.9                             |
| 28 | Coastal-Puget Sound | Puget Sound          | Core Area    | Lower Skagit              | 245365.22        | 779741.83           | 31.5                    | 1377263.04     | 17.8                             |
| 3  | Coastal-Puget Sound | Olympic Peninsula    | Core Area    | Hoh                       | 31017.00         | 90841.42            | 34.1                    | 191087.31      | 16.2                             |
| 27 | Coastal-Puget Sound | Puget Sound          | Core Area    | Chilliwack                | 22557.27         | 76007.47            | 29.7                    | 152648.98      | 14.8                             |
| 29 | Coastal-Puget Sound | Puget Sound          | Core Area    | Nooksack                  | 70648.90         | 238486.10           | 29.6                    | 498822.83      | 14.2                             |
| 4  | Coastal-Puget Sound | Olympic Peninsula    | Core Area    | Queets                    | 25127.35         | 241399.32           | 10.4                    | 288406.41      | 8.7                              |
| 6  | Coastal-Puget Sound | Olympic Peninsula    | Core Area    | Skokomish                 | 13039.36         | 95922.81            | 13.6                    | 152990.04      | 8.5                              |
| 60 | Columbia River      | Upper Columbia       | Core Area    | Wenatchee                 | 65371.71         | 313478.95           | 20.9                    | 878461.95      | 7.4                              |
| 45 | Columbia River      | Grande Ronde         | Core Area    | Grande Ronde              | 12299.60         | 100909.67           | 12.2                    | 186528.42      | 6.6                              |
| 1  | Coastal-Puget Sound | Olympic Peninsula    | Core Area    | Dungeness                 | 7959.81          | 59402.44            | 13.4                    | 130885.95      | 6.1                              |
| 57 | Columbia River      | Umatilla-Walla Walla | Core Area    | Walla Walla               | 47786.76         | 750322.22           | 6.4                     | 821259.59      | 5.8                              |
| 52 | Columbia River      | Middle Columbia      | Core Area    | Yakima                    | 209317.90        | 3117057.41          | 6.7                     | 3934368.83     | 5.3                              |
| 5  | Coastal-Puget Sound | Olympic Peninsula    | Core Area    | Quinalt                   | 12520.44         | 179724.75           | 7.0                     | 279793.74      | 4.5                              |
| 58 | Columbia River      | Upper Columbia       | Core Area    | Entiat                    | 14181.03         | 198462.36           | 7.1                     | 337496.49      | 4.2                              |

| #  | DPS                 | Management Unit                 | Area Type | Area Name (Core, FMO, RN)                             | FP Acres for FMO | Total Acres for FMO | % FP Lands in Areas FMO | Total RP Areas Acres | %FP Lands for FMO in entire Core |
|----|---------------------|---------------------------------|-----------|---|------------------|---------------------|-------------------------|----------------------|----------------------------------|
| 2  | Coastal-Puget Sound | Olympic Peninsula               | Core Area | Elwha   | 7407.76          | 34343.67            | 21.6                    | 205664.62            | 3.6                              |
| 59 | Columbia River      | Upper Columbia                  | Core Area | Methow  | 34275.11         | 727230.32           | 4.7                     | 1374606.43           | 2.5                              |
| 56 | Columbia River      | Snake River Basin in Washington | Core Area | Tucannon  | 4181.63          | 258627.39           | 1.6                     | 323242.89            | 1.3                              |
| 55 | Columbia River      | Snake River Basin in Washington | Core Area | Asotin  | 3247.83          | 121593.99           | 2.7                     | 251257.11            | 1.3                              |
| 26 | Coastal-Puget Sound | Puget Sound                     | Core Area | Chester Morse   | 88.45            | 8301.74             | 1.1                     | 52388.40             | 0.2                              |
| 33 | Coastal-Puget Sound | Puget Sound                     | Core Area | Upper Skagit  | 574.04           | 95989.51            | 0.6                     | 463878.30            | 0.1                              |
| 42 | Columbia River      | Clark Fork                      | Core Area | Priest Lake   | 32.25            | 3108.66             | 1.0                     | 73961.09             | 0.0                              |
| 43 | Columbia River      | Clearwater                      | Core Area | Lower and Middle Fork Clearwater                      | 0.00             | 2682.43             | 0.0                     | 2682.43              | 0.0                              |
| 0  |                     |                                 |           | Not in Area Type, in DPS or MU (not included in sums) | 2732237.50       |                     |                         | 15211199.15          |                                  |
|    |                     |                                 |           |   | 3300427.17       | 15723404.38         | 21.0                    | 21320562.32          | 15.5                             |

### A.3 ROAD DENSITY, STREAM CROSSINGS, STREAM ADJACENT ROAD SUMMARIES BY LOCAL POPULATION AND CORE AREA

**Item: Transportation in Local Populations & FP Lands**

Clip WaTrans2005 with Local Populations

Identify clipped WaTrans2005 with Fplands in Local populations

Frequency by road type & local population to get total road miles in LP

sources: WDNR Transportation 2005 & US FWS FPLands 2005

**Road Density by Local Population (Totals and FP lands)**

**LP Type:** L= Local Population; P= Potential Local Population

| ID # | Distinct Population Segment | Management Unit                 | Core Area          | Local Population (LP) Name       | LP Type | Total Acres in Local Population | Total (10,99) Miles in LP | Road Density in LP | Acres FPL in Local Population | FPL Total (10,99) Miles in LP | Road Density FPL in LP |
|------|-----------------------------|---------------------------------|--------------------|----------------------------------|---------|---------------------------------|---------------------------|--------------------|-------------------------------|-------------------------------|------------------------|
| 101  | Columbia River              | Middle Columbia                 | Yakima River       | Upper Yakima River               | L       | 38889.07                        | 329.76                    | 5.43               | 8278.35                       | 69.82                         | 5.40                   |
| 15   | Coastal-Puget Sound         | Puget Sound                     | Chester Morse      | Rack Creek                       | L       | 1408.47                         | 10.62                     | 4.83               | 0.00                          | 0.00                          | #DIV/0!                |
| 83   | Columbia River              | Lower Columbia                  | Lewis River        | Pine Creek                       | L       | 15169.43                        | 113.74                    | 4.80               | 8186.03                       | 81.71                         | 6.39                   |
| 106  | Columbia River              | Northeast Washington            | Pend Oreille River | Mill Creek PLP                   | P       | 12428.43                        | 88.93                     | 4.58               | 8535.74                       | 67.56                         | 5.07                   |
| 54   | Coastal-Puget Sound         | Puget Sound                     | Puyallup River     | Greenwater River                 | L       | 32507.86                        | 228.87                    | 4.51               | 3506.22                       | 34.29                         | 6.26                   |
| 45   | Coastal-Puget Sound         | Puget Sound                     | Nooksack River     | Lower North Fork Nooksack River  | L       | 21767.30                        | 143.73                    | 4.23               | 11506.52                      | 87.50                         | 4.87                   |
| 47   | Coastal-Puget Sound         | Puget Sound                     | Nooksack River     | Middle North Fork Nooksack River | L       | 9009.61                         | 59.38                     | 4.22               | 5601.82                       | 39.69                         | 4.53                   |
| 129  | Columbia River              | Upper Columbia                  | Entiat River       | Mad River                        | L       | 58391.07                        | 377.47                    | 4.14               | 3525.80                       | 30.47                         | 5.53                   |
| 118  | Columbia River              | Snake River Basin in Washington | Tucannon River     | Little Tucannon River            | P       | 4805.09                         | 29.72                     | 3.96               | 223.54                        | 1.80                          | 5.15                   |
| 10   | Coastal-Puget Sound         | Olympic Peninsula               | Skokomish River    | Brown Creek PLP                  | P       | 5102.35                         | 31.55                     | 3.96               | 87.97                         | 0.41                          | 3.01                   |
| 46   | Coastal-Puget Sound         | Puget Sound                     | Nooksack River     | Lower South Fork Nooksack River  | L       | 76879.68                        | 461.89                    | 3.85               | 50723.79                      | 355.48                        | 4.49                   |
| 13   | Coastal-Puget Sound         | Puget Sound                     | Chester Morse      | Boulder Creek                    | L       | 14687.61                        | 84.44                     | 3.68               | 10.96                         | 0.43                          | 25.31                  |
| 82   | Columbia River              | Lower Columbia                  | Lewis River        | Cougar Creek                     | L       | 10613.84                        | 58.29                     | 3.51               | 3216.61                       | 34.59                         | 6.88                   |

| <b>ID #</b> | <b>Distinct Population Segment</b> | <b>Management Unit</b>          | <b>Core Area</b>   | <b>Local Population (LP) Name</b> | <b>LP Type</b> | <b>Total Acres in Local Population</b> | <b>Total (10,99) Miles in LP</b> | <b>Road Density in LP</b> | <b>Acres FPL in Local Population</b> | <b>FPL Total (10,99) Miles in LP</b> | <b>Road Density FPL in LP</b> |
|-------------|------------------------------------|---------------------------------|--------------------|-----------------------------------|----------------|--|----------------------------------|---------------------------|--------------------------------------|--------------------------------------|-------------------------------|
| 93          | Columbia River                     | Middle Columbia                 | Yakima River       | Gold Creek (2)                    | L              | 36233.16                               | 194.47                           | 3.43                      | 2716.47                              | 20.59                                | 4.85                          |
| 44          | Coastal-Puget Sound                | Puget Sound                     | Nooksack River     | Lower Middle Fork Nooksack River  | L              | 17495.01                               | 92.98                            | 3.40                      | 10663.08                             | 58.78                                | 3.53                          |
| 113         | Columbia River                     | Snake River Basin in Washington | Asotin Creek       | Charley Creek                     | L              | 14455.79                               | 76.71                            | 3.40                      | 0.00                                 | 0.00                                 | #DIV/0!                       |
| 12          | Coastal-Puget Sound                | Olympic Peninsula               | Skokomish River    | South Fork Skokomish River        | L              | 24608.02                               | 127.77                           | 3.32                      | 47.46                                | 0.00                                 | 0.00                          |
| 1           | Coastal-Puget Sound                | Olympic Peninsula               | Dungeness River    | Dungeness River                   | L              | 22734.08                               | 114.32                           | 3.22                      | 1832.05                              | 15.94                                | 5.57                          |
| 14          | Coastal-Puget Sound                | Puget Sound                     | Chester Morse      | Cedar River                       | L              | 27475.69                               | 135.76                           | 3.16                      | 85.38                                | 0.42                                 | 3.14                          |
| 86          | Columbia River                     | Middle Columbia                 | Yakima River       | Ahtamum Creek                     | L              | 69364.12                               | 318.26                           | 2.94                      | 40940.01                             | 213.63                               | 3.34                          |
| 128         | Columbia River                     | Upper Columbia                  | Entiat River       | Entiat River                      | L              | 80643.06                               | 356.74                           | 2.83                      | 4941.18                              | 30.39                                | 3.94                          |
| 53          | Coastal-Puget Sound                | Puget Sound                     | Puyallup River     | Clearwater River PLP              | P              | 24734.11                               | 108.31                           | 2.80                      | 13385.63                             | 98.95                                | 4.73                          |
| 127         | Columbia River                     | Umatilla-Walla Walla            | Walla Walla River  | Wolf Fork Touchet River           | L              | 6558.20                                | 28.42                            | 2.77                      | 2204.02                              | 10.56                                | 3.07                          |
| 100         | Columbia River                     | Middle Columbia                 | Yakima River       | Taneum Creek PLP                  | P              | 39979.99                               | 170.95                           | 2.74                      | 999.69                               | 8.14                                 | 5.21                          |
| 110         | Columbia River                     | Northeast Washington            | Pend Oreille River | Small Creek PLP                   | P              | 17210.81                               | 73.43                            | 2.73                      | 5754.05                              | 26.81                                | 2.98                          |
| 104         | Columbia River                     | Northeast Washington            | Pend Oreille River | Indian Creek PLP (2)              | P              | 3440.60                                | 14.64                            | 2.72                      | 1574.66                              | 8.12                                 | 3.30                          |
| 16          | Coastal-Puget Sound                | Puget Sound                     | Chester Morse      | Shotgun Creek PLP                 | P              | 514.89                                 | 2.12                             | 2.64                      | 0.00                                 | 0.00                                 | #DIV/0!                       |
| 120         | Columbia River                     | Snake River Basin in Washington | Tucannon River     | Meadow Creek                      | L              | 4516.25                                | 17.33                            | 2.46                      | 0.00                                 | 0.00                                 | #DIV/0!                       |
| 95          | Columbia River                     | Middle Columbia                 | Yakima River       | Kachess River                     | L              | 33061.02                               | 126.78                           | 2.45                      | 1721.33                              | 20.40                                | 7.59                          |
| 112         | Columbia River                     | Northeast Washington            | Pend Oreille River | Tacoma Creek PLP                  | P              | 15856.05                               | 60.01                            | 2.42                      | 5358.83                              | 23.61                                | 2.82                          |
| 126         | Columbia River                     | Umatilla-Walla Walla            | Walla Walla River  | South Fork Touchet River          | L              | 12482.40                               | 46.44                            | 2.38                      | 5433.90                              | 32.32                                | 3.81                          |



| <b>ID #</b> | <b>Distinct Population Segment</b> | <b>Management Unit</b>          | <b>Core Area</b>    | <b>Local Population (LP) Name</b> | <b>LP Type</b> | <b>Total Acres in Local Population</b> | <b>Total (10,99) Miles in LP</b> | <b>Road Density in LP</b> | <b>Acres FPL in Local Population</b> | <b>FPL Total (10,99) Miles in LP</b> | <b>Road Density FPL in LP</b> |
|-------------|------------------------------------|---------------------------------|---------------------|-----------------------------------|----------------|--|----------------------------------|---------------------------|--------------------------------------|--------------------------------------|-------------------------------|
| 43          | Coastal-Puget Sound                | Puget Sound                     | Nooksack River      | Lower Canyon Creek                | L              | 19767.05                               | 70.82                            | 2.29                      | 2146.19                              | 14.22                                | 4.24                          |
| 143         | Columbia River                     | Upper Columbia                  | Wenatchee River     | Nason Creek                       | L              | 70070.28                               | 247.89                           | 2.26                      | 14521.23                             | 131.56                               | 5.80                          |
| 105         | Columbia River                     | Northeast Washington            | Pend Oreille River  | Le Clerc Creek                    | L              | 48414.55                               | 165.40                           | 2.19                      | 21640.72                             | 107.10                               | 3.17                          |
| 57          | Coastal-Puget Sound                | Puget Sound                     | Puyallup River      | West Fork White River             | L              | 41992.12                               | 138.00                           | 2.10                      | 5582.87                              | 47.86                                | 5.49                          |
| 111         | Columbia River                     | Northeast Washington            | Pend Oreille River  | Sullivan Creek PLP                | P              | 45651.13                               | 149.31                           | 2.09                      | 60.03                                | 0.02                                 | 0.21                          |
| 55          | Coastal-Puget Sound                | Puget Sound                     | Puyallup River      | Upper Puyallup & Mowich Rivers    | L              | 58489.24                               | 190.85                           | 2.09                      | 20153.39                             | 152.03                               | 4.83                          |
| 99          | Columbia River                     | Middle Columbia                 | Yakima River        | SFk Tieton River                  | L              | 57301.55                               | 182.04                           | 2.03                      | 4457.03                              | 23.43                                | 3.36                          |
| 65          | Coastal-Puget Sound                | Puget Sound                     | Stillaguamish River | Upper Deer Creek                  | L              | 22598.96                               | 68.87                            | 1.95                      | 2516.99                              | 14.53                                | 3.70                          |
| 84          | Columbia River                     | Lower Columbia                  | Lewis River         | Rush Creek                        | L              | 16874.31                               | 51.39                            | 1.95                      | 0.00                                 | 0.00                                 | #DIV/0!                       |
| 63          | Coastal-Puget Sound                | Puget Sound                     | Stillaguamish River | North Fork Stillaguamish River    | L              | 61304.74                               | 185.29                           | 1.93                      | 7981.68                              | 52.24                                | 4.19                          |
| 114         | Columbia River                     | Snake River Basin in Washington | Asotin Creek        | NFk Asotin River                  | L              | 66578.86                               | 201.03                           | 1.93                      | 1824.93                              | 4.19                                 | 1.47                          |
| 62          | Coastal-Puget Sound                | Puget Sound                     | Stillaguamish River | Canyon Creek                      | L              | 28851.69                               | 87.11                            | 1.93                      | 5181.10                              | 27.76                                | 3.43                          |
| 133         | Columbia River                     | Upper Columbia                  | Methow River        | Goat Creek                        | L              | 23025.89                               | 68.73                            | 1.91                      | 89.98                                | 0.28                                 | 2.02                          |
| 125         | Columbia River                     | Umatilla-Walla Walla            | Walla Walla River   | North Fork Touchet River          | L              | 38456.00                               | 114.63                           | 1.91                      | 11019.89                             | 49.16                                | 2.85                          |
| 103         | Columbia River                     | Northeast Washington            | Pend Oreille River  | Harvey Creek PLP                  | P              | 25507.50                               | 75.85                            | 1.90                      | 5601.09                              | 23.59                                | 2.70                          |
| 102         | Columbia River                     | Northeast Washington            | Pend Oreille River  | Cedar Creek PLP                   | P              | 11655.24                               | 34.66                            | 1.90                      | 1649.37                              | 11.94                                | 4.63                          |
| 77          | Columbia River                     | Clark Fork                      | Priest Lake         | Kalispell Creek                   | L              | 14959.23                               | 44.05                            | 1.88                      | 96.96                                | 1.31                                 | 8.64                          |
| 119         | Columbia River                     | Snake River Basin in Washington | Tucannon River      | Little Turkey Creek               | L              | 1504.46                                | 4.22                             | 1.79                      | 0.00                                 | 0.00                                 | #DIV/0!                       |
| 42          | Coastal-Puget Sound                | Puget Sound                     | Nooksack River      | Glacier Creek                     | L              | 20319.65                               | 56.38                            | 1.78                      | 2489.40                              | 18.69                                | 4.81                          |
| 48          | Coastal-Puget Sound                | Puget Sound                     | Nooksack River      | Upper Middle Fork Nooksack River  | L              | 46066.26                               | 126.57                           | 1.76                      | 4394.15                              | 33.54                                | 4.88                          |
| 115         | Columbia River                     | Snake River Basin in Washington | Asotin Creek        | Wormell Gulch PLP                 | P              | 48628.47                               | 132.69                           | 1.75                      | 6795.19                              | 19.30                                | 1.82                          |
| 37          | Coastal-Puget Sound                | Puget Sound                     | Lower Skagit River  | Sulphur Creek (Lake Shannon) PLP  | P              | 6442.89                                | 17.24                            | 1.71                      | 25.00                                | 0.70                                 | 17.94                         |
| 116         | Columbia River                     | Snake River Basin in            | Tucannon River      | Cummings Creek                    | L              | 12748.85                               | 33.82                            | 1.70                      | 211.33                               | 0.57                                 | 1.72                          |

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|-------------|------------------------------------|---------------------------------|----------------------------|-----------------------------------|----------------|--|----------------------------------|---------------------------|--------------------------------------|--------------------------------------|-------------------------------|
|             |                                    |                                 | Washington                 |                                   |                |  |                                  |                           |                                      |                                      |                               |
| 85          | Columbia River                     | Lower Columbia                  | Lewis River                | Upper Lewis River PLP             | P              | 73798.80                               | 192.02                           | 1.67                      | 0.00                                 | 0.00                                 | #DIV/0!                       |
| 91          | Columbia River                     | Middle Columbia                 | Yakima River               | Crow Creek                        | L              | 54514.93                               | 141.69                           | 1.66                      | 1.22                                 | 0.00                                 | 0.00                          |
| 51          | Coastal-Puget Sound                | Puget Sound                     | Nooksack River             | Wanlick Creek                     | L              | 6275.61                                | 15.74                            | 1.61                      | 197.75                               | 1.36                                 | 4.41                          |
| 49          | Coastal-Puget Sound                | Puget Sound                     | Nooksack River             | Upper North Fork Nooksack River   | L              | 29408.71                               | 68.35                            | 1.49                      | 224.40                               | 3.19                                 | 9.10                          |
| 140         | Columbia River                     | Upper Columbia                  | Wenatchee River            | Chiwawa River                     | L              | 120808.79                              | 268.80                           | 1.42                      | 3984.06                              | 34.30                                | 5.51                          |
| 52          | Coastal-Puget Sound                | Puget Sound                     | Puyallup River             | Carbon River                      | L              | 51796.44                               | 114.97                           | 1.42                      | 11222.99                             | 54.55                                | 3.11                          |
| 60          | Coastal-Puget Sound                | Puget Sound                     | Snohomish /Skykomish River | South Fork Skykomish River        | L              | 175861.86                              | 382.60                           | 1.39                      | 12797.68                             | 89.83                                | 4.49                          |
| 107         | Columbia River                     | Northeast Washington            | Pend Oreille River         | Ruby Creek PLP (2)                | P              | 19809.99                               | 42.79                            | 1.38                      | 1158.49                              | 5.86                                 | 3.24                          |
| 56          | Coastal-Puget Sound                | Puget Sound                     | Puyallup River             | Upper White River                 | L              | 96129.28                               | 206.94                           | 1.38                      | 4037.18                              | 32.18                                | 5.10                          |
| 97          | Columbia River                     | Middle Columbia                 | Yakima River               | NFk Tieton River                  | L              | 73144.00                               | 157.31                           | 1.38                      | 126.11                               | 0.00                                 | 0.00                          |
| 130         | Columbia River                     | Upper Columbia                  | Methow River               | Blue Buck Creek PLP               | L              | 5428.88                                | 11.57                            | 1.36                      | 0.00                                 | 0.00                                 | #DIV/0!                       |
| 90          | Columbia River                     | Middle Columbia                 | Yakima River               | Cle Elum River                    | L              | 141656.06                              | 294.35                           | 1.33                      | 11617.09                             | 84.53                                | 4.66                          |
| 4           | Coastal-Puget Sound                | Olympic Peninsula               | Elwha River                | Little River PLP                  | P              | 14641.73                               | 29.39                            | 1.28                      | 1604.49                              | 12.98                                | 5.18                          |
| 96          | Columbia River                     | Middle Columbia                 | Yakima River               | NFk Teanaway River                | L              | 60801.19                               | 118.33                           | 1.25                      | 17811.15                             | 55.98                                | 2.01                          |
| 109         | Columbia River                     | Northeast Washington            | Pend Oreille River         | Slate Creek PLP                   | P              | 20544.95                               | 38.78                            | 1.21                      | 0.00                                 | 0.00                                 | #DIV/0!                       |
| 64          | Coastal-Puget Sound                | Puget Sound                     | Stillaguamish River        | South Fork Stillaguamish River    | L              | 46507.89                               | 87.72                            | 1.21                      | 953.29                               | 4.35                                 | 2.92                          |
| 38          | Coastal-Puget Sound                | Puget Sound                     | Lower Skagit River         | Tenas Creek                       | L              | 6705.65                                | 12.30                            | 1.17                      | 84.57                                | 0.91                                 | 6.89                          |
| 142         | Columbia River                     | Upper Columbia                  | Wenatchee River            | Little Wenatchee River            | L              | 64812.94                               | 117.01                           | 1.16                      | 292.92                               | 0.99                                 | 2.16                          |
| 98          | Columbia River                     | Middle Columbia                 | Yakima River               | Rattlesnake Creek                 | L              | 69698.53                               | 121.33                           | 1.11                      | 1799.59                              | 9.01                                 | 3.20                          |
| 117         | Columbia River                     | Snake River Basin in Washington | Tucannon River             | Hixon Creek                       | P              | 1988.43                                | 3.42                             | 1.10                      | 0.00                                 | 0.00                                 | #DIV/0!                       |
| 76          | Columbia River                     | Clark Fork                      | Priest Lake                | Granite Creek                     | L              | 40527.23                               | 66.71                            | 1.05                      | 3266.96                              | 4.25                                 | 0.83                          |
| 35          | Coastal-Puget Sound                | Puget Sound                     | Lower Skagit River         | Straight Creek                    | L              | 7213.25                                | 11.40                            | 1.01                      | 0.00                                 | 0.00                                 | #DIV/0!                       |
| 88          | Columbia River                     | Middle Columbia                 | Yakima River               | Box Cayon Creek                   | L              | 7965.64                                | 12.25                            | 0.98                      | 0.00                                 | 0.00                                 | #DIV/0!                       |
| 75          | Columbia River                     | Clark Fork                      | Priest Lake                | Gold Creek                        | L              | 15365.97                               | 23.32                            | 0.97                      | 0.00                                 | 0.00                                 | #DIV/0!                       |

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|-------------|------------------------------------|---------------------------------|----------------------------|-----------------------------------|----------------|--|----------------------------------|---------------------------|--------------------------------------|--------------------------------------|-------------------------------|
| 30          | Coastal-Puget Sound                | Puget Sound                     | Lower Skagit River         | Lower Whitechuck River            | L              | 29936.26                               | 45.06                            | 0.96                      | 0.00                                 | 0.00                                 | #DIV/0!                       |
| 28          | Coastal-Puget Sound                | Puget Sound                     | Lower Skagit River         | Illabot Creek                     | L              | 27581.41                               | 38.94                            | 0.90                      | 1754.59                              | 13.63                                | 4.97                          |
| 134         | Columbia River                     | Upper Columbia                  | Methow River               | Gold Creek (3)                    | L              | 38918.32                               | 54.01                            | 0.89                      | 367.56                               | 2.57                                 | 4.48                          |
| 108         | Columbia River                     | Northeast Washington            | Pend Oreille River         | SFk Tacoma Creek PLP              | P              | 10372.74                               | 14.34                            | 0.88                      | 3833.39                              | 8.09                                 | 1.35                          |
| 136         | Columbia River                     | Upper Columbia                  | Methow River               | Twisp River                       | L              | 132273.51                              | 182.55                           | 0.88                      | 972.09                               | 4.64                                 | 3.05                          |
| 131         | Columbia River                     | Upper Columbia                  | Methow River               | Chewack River                     | L              | 208423.95                              | 271.95                           | 0.84                      | 134.87                               | 0.35                                 | 1.66                          |
| 139         | Columbia River                     | Upper Columbia                  | Wenatchee River            | Chiwaukum Creek                   | L              | 31070.35                               | 39.44                            | 0.81                      | 2690.25                              | 22.50                                | 5.35                          |
| 59          | Coastal-Puget Sound                | Puget Sound                     | Snohomish /Skykomish River | Salmon Creek                      | L              | 5304.38                                | 6.73                             | 0.81                      | 12.98                                | 0.00                                 | 0.00                          |
| 145         | Columbia River                     | Upper Columbia                  | Wenatchee River            | White River                       | L              | 117473.15                              | 140.27                           | 0.76                      | 4417.69                              | 43.13                                | 6.25                          |
| 80          | Columbia River                     | Grande Ronde                    | Grande Ronde River         | North Fork Wenaha River           | L              | 11291.62                               | 12.96                            | 0.73                      | 0.00                                 | 0.00                                 | #DIV/0!                       |
| 6           | Coastal-Puget Sound                | Olympic Peninsula               | Hoh River                  | South Fork Hoh River              | L              | 34122.97                               | 38.56                            | 0.72                      | 193.68                               | 0.04                                 | 0.14                          |
| 123         | Columbia River                     | Snake River Basin in Washington | Tucannon River             | Turkey Creek                      | L              | 2873.84                                | 3.22                             | 0.72                      | 0.00                                 | 0.00                                 | #DIV/0!                       |
| 22          | Coastal-Puget Sound                | Puget Sound                     | Lower Skagit River         | Baker Lake                        | L              | 137800.28                              | 134.11                           | 0.62                      | 515.70                               | 4.94                                 | 6.14                          |
| 122         | Columbia River                     | Snake River Basin in Washington | Tucannon River             | Tucannon River                    | L              | 28756.94                               | 27.90                            | 0.62                      | 178.97                               | 1.07                                 | 3.82                          |
| 89          | Columbia River                     | Middle Columbia                 | Yakima River               | Bumping River                     | L              | 57839.08                               | 53.95                            | 0.60                      | 173.83                               | 1.51                                 | 5.55                          |
| 21          | Coastal-Puget Sound                | Puget Sound                     | Lower Skagit River         | Bacon Creek                       | L              | 32669.50                               | 28.94                            | 0.57                      | 173.53                               | 1.13                                 | 4.18                          |
| 26          | Coastal-Puget Sound                | Puget Sound                     | Lower Skagit River         | Forks of Sauk River               | L              | 68178.45                               | 58.43                            | 0.55                      | 216.04                               | 1.28                                 | 3.80                          |
| 50          | Coastal-Puget Sound                | Puget Sound                     | Nooksack River             | Upper South Fork Nooksack River   | L              | 13347.86                               | 11.15                            | 0.53                      | 0.00                                 | 0.00                                 | #DIV/0!                       |
| 58          | Coastal-Puget Sound                | Puget Sound                     | Snohomish /Skykomish River | North Fork Skykomish River        | L              | 52931.97                               | 43.96                            | 0.53                      | 1435.39                              | 6.55                                 | 2.92                          |
| 81          | Columbia River                     | Lower Columbia                  | Klickitat River            | West Fork Klickitat River         | L              | 58437.09                               | 47.94                            | 0.53                      | 0.00                                 | 0.00                                 | #DIV/0!                       |
| 39          | Coastal-Puget Sound                | Puget Sound                     | Lower Skagit River         | Upper South Fork Sauk River       | L              | 11597.50                               | 8.98                             | 0.50                      | 435.48                               | 1.11                                 | 1.63                          |
| 87          | Columbia River                     | Middle Columbia                 | Yakima River               | American River                    | L              | 50820.34                               | 37.06                            | 0.47                      | 113.09                               | 0.12                                 | 0.70                          |
| 141         | Columbia River                     | Upper Columbia                  | Wenatchee River            | Icicle Creek                      | L              | 137202.12                              | 92.67                            | 0.43                      | 3805.14                              | 22.78                                | 3.83                          |
| 92          | Columbia River                     | Middle Columbia                 | Yakima River               | Deep Creek                        | L              | 15495.20                               | 10.41                            | 0.43                      | 0.00                                 | 0.00                                 | #DIV/0!                       |

| <b>ID #</b> | <b>Distinct Population Segment</b> | <b>Management Unit</b>          | <b>Core Area</b>   | <b>Local Population (LP) Name</b> | <b>LP Type</b> | <b>Total Acres in Local Population</b> | <b>Total (10,99) Miles in LP</b> | <b>Road Density in LP</b> | <b>Acres FPL in Local Population</b> | <b>FPL Total (10,99) Miles in LP</b> | <b>Road Density FPL in LP</b> |
|-------------|------------------------------------|---------------------------------|--------------------|-----------------------------------|----------------|--|----------------------------------|---------------------------|--------------------------------------|--------------------------------------|-------------------------------|
| 132         | Columbia River                     | Upper Columbia                  | Methow River       | Early Winters Creek               | L              | 51475.53                               | 30.52                            | 0.38                      | 114.75                               | 0.84                                 | 4.71                          |
| 11          | Coastal-Puget Sound                | Olympic Peninsula               | Skokomish River    | North Fork Skokomish River        | L              | 27356.85                               | 16.20                            | 0.38                      | 71.72                                | 0.20                                 | 1.78                          |
| 94          | Columbia River                     | Middle Columbia                 | Yakima River       | Indian Creek                      | L              | 10547.53                               | 5.78                             | 0.35                      | 0.00                                 | 0.00                                 | #DIV/0!                       |
| 121         | Columbia River                     | Snake River Basin in Washington | Tucannon River     | Panjab Creek                      | L              | 7421.64                                | 3.87                             | 0.33                      | 0.00                                 | 0.00                                 | #DIV/0!                       |
| 29          | Coastal-Puget Sound                | Puget Sound                     | Lower Skagit River | Lime Creek                        | L              | 11261.06                               | 4.76                             | 0.27                      | 0.00                                 | 0.00                                 | #DIV/0!                       |
| 138         | Columbia River                     | Upper Columbia                  | Methow River       | Wolf Creek                        | L              | 25832.06                               | 10.61                            | 0.26                      | 380.00                               | 1.21                                 | 2.04                          |
| 24          | Coastal-Puget Sound                | Puget Sound                     | Lower Skagit River | Cascade River                     | L              | 20867.55                               | 7.86                             | 0.24                      | 0.00                                 | 0.00                                 | #DIV/0!                       |
| 72          | Coastal-Puget Sound                | Puget Sound                     | Upper Skagit River | Ruby Creek                        | L              | 112095.97                              | 38.42                            | 0.22                      | 566.62                               | 1.48                                 | 1.67                          |
| 32          | Coastal-Puget Sound                | Puget Sound                     | Lower Skagit River | Newhalem Creek                    | L              | 17490.54                               | 5.67                             | 0.21                      | 1.57                                 | 0.00                                 | 0.00                          |

| <b>ID #</b> | <b>Distinct Population Segment</b> | <b>Management Unit</b> | <b>Core Area</b>           | <b>Local Population (LP) Name</b> | <b>LP Type</b> | <b>Total Acres in Local Population</b> | <b>Total (10,99) Miles in LP</b> | <b>Road Density in LP</b> | <b>Acres FPL in Local Population</b> | <b>FPL Total (10,99) Miles in LP</b> | <b>Road Density FPL in LP</b> |
|-------------|------------------------------------|------------------------|----------------------------|-----------------------------------|----------------|--|----------------------------------|---------------------------|--------------------------------------|--------------------------------------|-------------------------------|
| 27          | Coastal-Puget Sound                | Puget Sound            | Lower Skagit River         | Goodell Creek                     | L              | 25042.10                               | 7.83                             | 0.20                      | 29.43                                | 0.10                                 | 2.27                          |
| 137         | Columbia River                     | Upper Columbia         | Methow River               | WfK Methow River                  | L              | 54601.53                               | 16.54                            | 0.19                      | 82.64                                | 0.00                                 | 0.00                          |
| 2           | Coastal-Puget Sound                | Olympic Peninsula      | Dungeness River            | Gray Wolf River                   | L              | 48749.43                               | 13.20                            | 0.17                      | 0.00                                 | 0.00                                 | #DIV/0!                       |
| 78          | Columbia River                     | Grande Ronde           | Grande Ronde River         | Butte Creek                       | L              | 26506.08                               | 6.77                             | 0.16                      | 0.00                                 | 0.00                                 | #DIV/0!                       |
| 79          | Columbia River                     | Grande Ronde           | Grande Ronde River         | Crooked Creek                     | L              | 47821.04                               | 9.77                             | 0.13                      | 136.40                               | 0.01                                 | 0.06                          |
| 5           | Coastal-Puget Sound                | Olympic Peninsula      | Hoh River                  | Hoh River                         | L              | 66122.92                               | 11.64                            | 0.11                      | 0.00                                 | 0.00                                 | #DIV/0!                       |
| 124         | Columbia River                     | Umatilla-Walla Walla   | Walla Walla River          | Mill Creek (2)                    | L              | 13440.77                               | 2.28                             | 0.11                      | 545.43                               | 0.59                                 | 0.69                          |
| 23          | Coastal-Puget Sound                | Puget Sound            | Lower Skagit River         | Buck Creek                        | L              | 21765.02                               | 2.77                             | 0.08                      | 0.00                                 | 0.00                                 | #DIV/0!                       |
| 9           | Coastal-Puget Sound                | Olympic Peninsula      | Quinalt River              | Upper Quinalt River               | L              | 57524.40                               | 6.24                             | 0.07                      | 0.00                                 | 0.00                                 | #DIV/0!                       |
| 144         | Columbia River                     | Upper Columbia         | Wenatchee River            | Peshastin Creek                   | L              | 23545.38                               | 2.34                             | 0.06                      | 182.83                               | 1.90                                 | 6.65                          |
| 33          | Coastal-Puget Sound                | Puget Sound            | Lower Skagit River         | South Fork Cascade River          | L              | 23200.90                               | 2.29                             | 0.06                      | 99.47                                | 0.00                                 | 0.00                          |
| 3           | Coastal-Puget Sound                | Olympic Peninsula      | Elwha River                | Elwha River                       | L              | 156679.22                              | 14.79                            | 0.06                      | 0.00                                 | 0.00                                 | #DIV/0!                       |
| 8           | Coastal-Puget Sound                | Olympic Peninsula      | Quinalt River              | North Fork Quinalt River          | L              | 42544.59                               | 3.28                             | 0.05                      | 0.00                                 | 0.00                                 | #DIV/0!                       |
| 135         | Columbia River                     | Upper Columbia         | Methow River               | Lost River                        | L              | 107396.44                              | 7.34                             | 0.04                      | 90.09                                | 0.32                                 | 2.29                          |
| 20          | Coastal-Puget Sound                | Puget Sound            | Chilliwack River           | Upper Chilliwack River            | L              | 35073.70                               | 1.98                             | 0.04                      | 0.00                                 | 0.00                                 | #DIV/0!                       |
| 61          | Coastal-Puget Sound                | Puget Sound            | Snohomish /Skykomish River | Troublesome Creek                 | L              | 8301.59                                | 0.29                             | 0.02                      | 111.69                               | 0.00                                 | 0.00                          |
| 25          | Coastal-Puget Sound                | Puget Sound            | Lower Skagit River         | Downey Creek                      | L              | 22843.26                               | 0.35                             | 0.01                      | 0.00                                 | 0.00                                 | #DIV/0!                       |
| 34          | Coastal-Puget Sound                | Puget Sound            | Lower Skagit River         | Stetattle Creek                   | L              | 14455.14                               | 0.17                             | 0.01                      | 0.55                                 | 0.00                                 | 0.00                          |

| <b>ID #</b> | <b>Distinct Population Segment</b> | <b>Management Unit</b> | <b>Core Area</b>   | <b>Local Population (LP) Name</b> | <b>LP Type</b> | <b>Total Acres in Local Population</b> | <b>Total (10,99) Miles in LP</b> | <b>Road Density in LP</b> | <b>Acres FPL in Local Population</b> | <b>FPL Total (10,99) Miles in LP</b> | <b>Road Density FPL in LP</b> |
|-------------|------------------------------------|------------------------|--------------------|-----------------------------------|----------------|--|----------------------------------|---------------------------|--------------------------------------|--------------------------------------|-------------------------------|
| 19          | Coastal-Puget Sound                | Puget Sound            | Chilliwack River   | Silesia Creek                     | L              | 25415.35                               | 0.15                             | 0.00                      | 134.67                               | 0.00                                 | 0.00                          |
| 36          | Coastal-Puget Sound                | Puget Sound            | Lower Skagit River | Sulphur Creek                     | L              | 21060.35                               | 0.06                             | 0.00                      | 0.00                                 | 0.00                                 | #DIV/0!                       |
| 70          | Coastal-Puget Sound                | Puget Sound            | Upper Skagit River | Panther Creek                     | L              | 23583.38                               | 0.04                             | 0.00                      | 0.00                                 | 0.00                                 | #DIV/0!                       |
| 7           | Coastal-Puget Sound                | Olympic Peninsula      | Queets River       | Queets River                      | L              | 47007.09                               | 0.00                             | 0.00                      | 0.10                                 | 0.00                                 | 0.00                          |
| 17          | Coastal-Puget Sound                | Puget Sound            | Chilliwack River   | Depot Creek                       | L              | 7999.46                                | 0.00                             | 0.00                      | 0.00                                 | 0.00                                 | #DIV/0!                       |
| 18          | Coastal-Puget Sound                | Puget Sound            | Chilliwack River   | Little Chilliwack River           | L              | 8153.00                                | 0.00                             | 0.00                      | 0.00                                 | 0.00                                 | #DIV/0!                       |
| 31          | Coastal-Puget Sound                | Puget Sound            | Lower Skagit River | Milk Creek                        | L              | 9290.18                                | 0.00                             | 0.00                      | 0.00                                 | 0.00                                 | #DIV/0!                       |
| 40          | Coastal-Puget Sound                | Puget Sound            | Lower Skagit River | Upper Suiattle River              | L              | 57546.05                               | 0.00                             | 0.00                      | 0.00                                 | 0.00                                 | #DIV/0!                       |
| 41          | Coastal-Puget Sound                | Puget Sound            | Lower Skagit River | Upper Whitechuck River            | L              | 24573.88                               | 0.00                             | 0.00                      | 0.00                                 | 0.00                                 | #DIV/0!                       |
| 66          | Coastal-Puget Sound                | Puget Sound            | Upper Skagit River | Big Beaver Creek                  | L              | 42238.31                               | 0.00                             | 0.00                      | 0.16                                 | 0.00                                 | 0.00                          |
| 67          | Coastal-Puget Sound                | Puget Sound            | Upper Skagit River | Deer Creek PLP                    | P              | 234.16                                 | 0.00                             | 0.00                      | 0.00                                 | 0.00                                 | #DIV/0!                       |
| 68          | Coastal-Puget Sound                | Puget Sound            | Upper Skagit River | Lightning Creek                   | L              | 72637.04                               | 0.00                             | 0.00                      | 0.84                                 | 0.00                                 | 0.00                          |
| 69          | Coastal-Puget Sound                | Puget Sound            | Upper Skagit River | Little Beaver Creek               | L              | 34428.62                               | 0.00                             | 0.00                      | 0.74                                 | 0.00                                 | 0.00                          |
| 71          | Coastal-Puget Sound                | Puget Sound            | Upper Skagit River | Pierce Creek                      | L              | 2573.23                                | 0.00                             | 0.00                      | 0.00                                 | 0.00                                 | #DIV/0!                       |
| 73          | Coastal-Puget Sound                | Puget Sound            | Upper Skagit River | Silver Creek                      | L              | 10683.31                               | 0.00                             | 0.00                      | 0.01                                 | 0.00                                 | 0.00                          |
| 74          | Coastal-Puget Sound                | Puget Sound            | Upper Skagit River | Thunder Creek                     | L              | 69414.77                               | 0.00                             | 0.00                      | 349.15                               | 0.00                                 | 0.00                          |
|             |                                    |                        |                    |                                   |                | 5597157.94                             | 10707.13                         | 1.22                      | 415002.66                            | 2642.87                              | 4.08                          |

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**Item: Transportation in FMO & FP Lands**

Take values from Item 10 spreadsheet for FMO Acres

Take values from FMO Roads and FP Roads worksheets to get road desity totals

sources: WDNR Transportation 2005; US FWS FPLands 2005 & US FWS Draft Recovery Plan

**Road Density by FMO (Totals and FP lands)**

**Recovery Plan Area Type:** FMO = Foraging, Migration, and Overwintering habitat; RN = Research Need Area

NC = not computed / Research Need Areas

| ID # | Distinct Population Segment | Management Unit      | Recovery Plan Area Type | Recovery Plan Area Name | Total Acres in FMO of RP Area | Total (10,99) Miles in FMO of RP Area | Road Density in FMO of RP Area | Acres FPL in FMO of RP Area | FPL Total (10,99) Miles in FMO of RP Area | Road Density FPL in FMO of RP Area |
|------|-----------------------------|----------------------|-------------------------|-------------------------|-------------------------------|---------------------------------------|--------------------------------|-----------------------------|---|------------------------------------|
| 23   | Coastal-Puget Sound         | Olympic Peninsula    | RN                      | Grays Harbor            | 8301.74242327832              | NC                                    | NC                             | 8301.74242327832            | 0.00                                      | NC                                 |
| 24   | Coastal-Puget Sound         | Olympic Peninsula    | RN                      | Hood Canal              | 76007.4651180237              | NC                                    | NC                             | 76007.4651180237            | 0.00                                      | NC                                 |
| 25   | Coastal-Puget Sound         | Olympic Peninsula    | RN                      | Hoquiam                 | 779741.830877164              | NC                                    | NC                             | 779741.830877164            | 0.00                                      | NC                                 |
| 39   | Coastal-Puget Sound         | Puget Sound          | RN                      | Upper Green             | 8690.77156701255              | NC                                    | NC                             | 8690.77156701255            | NC  | NC                                 |
| 40   | Coastal-Puget Sound         | Puget Sound          | RN                      | Upper Nisqually         | 100909.673229856              | NC                                    | NC                             | 100909.673229856            | NC  | NC                                 |
| 46   | Columbia River              | Grande Ronde         | RN                      | Wenatchee               | 433241.286359542              | NC                                    | NC                             | 433241.286359542            | NC  | NC                                 |
| 51   | Columbia River              | Lower Columbia       | RN                      | Cowlitz/Kalama          | 727230.320823129              | NC                                    | NC                             | 727230.320823129            | NC  | NC                                 |
| 54   | Columbia River              | Northeast Washington | RN                      | Northeast Washington    | 4743135.64539057              | NC                                    | NC                             | 1560963.37803802            | NC  | NC                                 |
| 61   | Columbia River              | Upper Columbia       | RN                      | Lake Chelan             | 611390.741672225              | NC                                    | NC                             | 9095.9255246006             | NC  | NC                                 |

| <b>ID #</b> | <b>Distinct Population Segment</b> | <b>Management Unit</b> | <b>Recovery Plan Area Type</b> | <b>Recovery Plan Area Name</b> | <b>Total Acres in FMO of RP Area</b> | <b>Total (10,99) Miles in FMO of RP Area</b> | <b>Road Density in FMO of RP Area</b> | <b>Acres FPL in FMO of RP Area</b> | <b>FPL Total (10,99) Miles in FMO of RP Area</b> | <b>Road Density FPL in FMO of RP Area</b> |
|-------------|------------------------------------|------------------------|--------------------------------|--------------------------------|--------------------------------------|--|---------------------------------------|------------------------------------|--|---|
| 62          | Columbia River                     | Upper Columbia         | RN                             | Okanogan                       | 1287166.50060923                     | NC   | NC                                    | 259898.383319352                   | NC   | NC  |
| 38          | Coastal-Puget Sound                | Puget Sound            | FMO                            | Puget Sound                    | 2682.43                              | 996.93                                       | 237.86                                | 2682.43                            | 488.36   | 116.52                                    |
| 37          | Coastal-Puget Sound                | Puget Sound            | FMO                            | Samish                         | 3108.66                              | 540.55                                       | 111.29                                | 3108.66                            | 316.81   | 65.22                                     |
| 34          | Coastal-Puget Sound                | Puget Sound            | FMO                            | Lake Washington                | 81375.48                             | 4210.81                                      | 33.12                                 | 81375.48                           | 706.79   | 5.56                                      |
| 52          | Columbia River                     | Middle Columbia        | Core Area                      | Yakima                         | 313478.95                            | 12792.12                                     | 26.12                                 | 313478.95                          | 1031.32  | 2.11                                      |
| 30          | Coastal-Puget Sound                | Puget Sound            | Core Area                      | Puyallup                       | 95989.51                             | 2989.16                                      | 19.93                                 | 95989.51                           | 1446.22  | 9.64                                      |
| 36          | Coastal-Puget Sound                | Puget Sound            | FMO                            | Lower Nisqually                | 77322.23                             | 2392.86                                      | 19.81                                 | 77322.23                           | 1448.25  | 11.99                                     |
| 47          | Columbia River                     | Lower Columbia         | Core Area                      | Klickitat                      | 121593.99                            | 3249.53                                      | 17.10                                 | 121593.99                          | 1535.09  | 8.08                                      |
| 31          | Coastal-Puget Sound                | Puget Sound            | Core Area                      | Snohomish/Skykomish            | 331958.56                            | 4184.88                                      | 8.07                                  | 331958.56                          | 2484.42  | 4.79                                      |
| 32          | Coastal-Puget Sound                | Puget Sound            | Core Area                      | Stillaguamish                  | 177880.73                            | 2111.08                                      | 7.60                                  | 177880.73                          | 1029.45  | 3.70                                      |
| 7           | Coastal-Puget Sound                | Olympic Peninsula      | FMO                            | Bell                           | 12938.02                             | 135.57                                       | 6.71                                  | 12938.02                           | 40.83  | 2.02                                      |
| 48          | Columbia River                     | Lower Columbia         | Core Area                      | Lewis                          | 258627.39                            | 2306.46                                      | 5.71                                  | 258627.39                          | 1027.96  | 2.54                                      |
| 15          | Coastal-Puget Sound                | Olympic Peninsula      | FMO                            | Morse                          | 71823.82                             | 541.13                                       | 4.82                                  | 71823.82                           | 238.06   | 2.12                                      |
| 9           | Coastal-Puget Sound                | Olympic Peninsula      | FMO                            | Chehalis                       | 344566.71                            | 2480.64                                      | 4.61                                  | 344566.71                          | 1098.31  | 2.04                                      |
| 12          | Coastal-Puget Sound                | Olympic Peninsula      | FMO                            | Kalaloch                       | 13648.90                             | 85.27  | 4.00                                  | 13648.90                           | 30.09  | 1.41                                      |
| 8           | Coastal-Puget Sound                | Olympic Peninsula      | FMO                            | Cedar/Steamboat                | 13129.58                             | 80.72  | 3.93                                  | 13129.58                           | 31.16  | 1.52                                      |
| 16          | Coastal-Puget Sound                | Olympic Peninsula      | FMO                            | Satsop                         | 189525.95                            | 1142.81                                      | 3.86                                  | 189525.95                          | 244.01   | 0.82                                      |
| 10          | Coastal-Puget Sound                | Olympic Peninsula      | FMO                            | Goodman                        | 40434.04                             | 216.36                                       | 3.42                                  | 40434.04                           | 129.76   | 2.05                                      |
| 17          | Coastal-Puget Sound                | Olympic Peninsula      | FMO                            | Wishkah                        | 65799.08                             | 327.76                                       | 3.19                                  | 65799.08                           | 277.27   | 2.70                                      |
| 13          | Coastal-Puget Sound                | Olympic Peninsula      | FMO                            | Raft                           | 90344.66                             | 442.46                                       | 3.13                                  | 90344.66                           | 0.00   | 0.00                                      |
| 3           | Coastal-Puget Sound                | Olympic Peninsula      | Core Area                      | Hoh                            | 90841.42                             | 429.81                                       | 3.03                                  | 90841.42                           | 149.88   | 1.06                                      |
| 6           | Coastal-Puget Sound                | Olympic Peninsula      | Core Area                      | Skokomish                      | 95922.81                             | 445.46                                       | 2.97                                  | 95922.81                           | 116.36   | 0.78                                      |
| 4           | Coastal-Puget Sound                | Olympic Peninsula      | Core Area                      | Queets                         | 241399.32                            | 1120.73                                      | 2.97                                  | 241399.32                          | 172.92   | 0.46                                      |
| 18          | Coastal-Puget Sound                | Olympic Peninsula      | FMO                            | Wynoochee                      | 125451.34                            | 573.23                                       | 2.92                                  | 125451.34                          | 290.15   | 1.48                                      |
| 11          | Coastal-Puget Sound                | Olympic Peninsula      | FMO                            | Humtulpis                      | 157871.53                            | 720.05                                       | 2.92                                  | 157871.53                          | 460.65   | 1.87                                      |



| ID # | Distinct Population Segment | Management Unit                 | Recovery Plan Area Type | Recovery Plan Area Name | Total Acres in FMO of RP Area | Total (10,99) Miles in FMO of RP Area | Road Density in FMO of RP Area | Acres FPL in FMO of RP Area | FPL Total (10,99) Miles in FMO of RP Area | Road Density FPL in FMO of RP Area |
|------|-----------------------------|---------------------------------|-------------------------|-------------------------|-------------------------------|---------------------------------------|--------------------------------|-----------------------------|---|------------------------------------|
| 28   | Coastal-Puget Sound         | Puget Sound                     | Core Area               | Lower Skagit            | 929972.07                     | 3690.03                               | 2.54                           | 929972.07                   | 1823.53                                   | 1.25                               |
| 14   | Coastal-Puget Sound         | Olympic Peninsula               | FMO                     | Moclips/Copalis         | 100493.92                     | 390.73                                | 2.49                           | 100493.92                   | 266.67                                    | 1.70                               |
| 29   | Coastal-Puget Sound         | Puget Sound                     | Core Area               | Nooksack                | 291683.09                     | 1117.15                               | 2.45                           | 291683.09                   | 390.01                                    | 0.86                               |
| 1    | Coastal-Puget Sound         | Olympic Peninsula               | Core Area               | Dungeness               | 59402.44                      | 220.11                                | 2.37                           | 59402.44                    | 72.98                                     | 0.79                               |
| 2    | Coastal-Puget Sound         | Olympic Peninsula               | Core Area               | Elwha                   | 34343.67                      | 124.48                                | 2.32                           | 34343.67                    | 61.62                                     | 1.15                               |
| 53   | Columbia River              | Northeast Washington            | Core Area               | Pend Oreille            | 664133.27                     | 1699.61                               | 1.64                           | 215697.70                   | 409.93                                    | 1.22                               |
| 57   | Columbia River              | Umatilla-Walla Walla            | Core Area               | Walla Walla             | 821259.59                     | 2030.12                               | 1.58                           | 66990.00                    | 209.34                                    | 2.00                               |
| 5    | Coastal-Puget Sound         | Olympic Peninsula               | Core Area               | Quinault                | 179724.75                     | 436.07                                | 1.55                           | 179724.75                   | 44.01                                     | 0.16                               |
| 58   | Columbia River              | Upper Columbia                  | Core Area               | Entiat                  | 337496.49                     | 802.76                                | 1.52                           | 22648.00                    | 109.16                                    | 3.08                               |
| 56   | Columbia River              | Snake River Basin in Washington | Core Area               | Tucannon                | 323242.89                     | 643.34                                | 1.27                           | 4795.46                     | 32.14                                     | 4.29                               |
| 60   | Columbia River              | Upper Columbia                  | Core Area               | Wenatchee               | 878461.95                     | 1607.78                               | 1.17                           | 95265.84                    | 388.45                                    | 2.61                               |
| 35   | Coastal-Puget Sound         | Puget Sound                     | FMO                     | Lower Green             | 1187643.24                    | 2156.03                               | 1.16                           | 1187643.24                  | 555.40                                    | 0.30                               |
|      |                             |                                 |                         |                         | 8825572.51                    | 29461.01                              | 2.14                           | 6206375.33                  | 19157.38                                  | 1.98                               |
| 49   | Columbia River              | Lower Columbia                  | Core Habitat            | White Salmon            | 750322.22                     | 1061.48                               | 0.91                           | 750322.22                   | 649.61                                    | 0.55                               |
| 59   | Columbia River              | Upper Columbia                  | Core Area               | Methow                  | 1374606.43                    | 1477.07                               | 0.69                           | 36507.10                    | 113.33                                    | 1.99                               |
| 55   | Columbia River              | Snake River Basin in Washington | Core Area               | Asotin                  | 251257.11                     | 251.13                                | 0.64                           | 11867.94                    | 12.72                                     | 0.69                               |
| 27   | Coastal-Puget Sound         | Puget Sound                     | Core Area               | Chilliwack              | 359021.78                     | 259.03                                | 0.46                           | 359021.78                   | 123.23                                    | 0.22                               |
| 20   | Coastal-Puget Sound         | Olympic Peninsula               | FMO Marine              | Hood Canal              | 95683.64                      | 58.39                                 | 0.39                           | 95683.64                    | 43.15                                     | 0.29                               |
| 41   | Columbia River              | Clark Fork                      | Core Area               | Lake Pend Orielle       | 806027.31                     | 376.99                                | 0.30                           | 806027.31                   | 99.12                                     | 0.08                               |
| 44   | Columbia River              | Coeur d'Alene Lake              | Core Area               | Coeur d'Alene Lake      | 148141.39                     | 57.95                                 | 0.25                           | 148141.39                   | 47.54                                     | 0.21                               |
| 50   | Columbia River              | Lower Columbia                  | FMO                     | Columbia                | 198462.36                     | 41.12                                 | 0.13                           | 198462.36                   | 8.69                                      | 0.03                               |
| 26   | Coastal-Puget Sound         | Puget Sound                     | Core Area               | Chester Morse           | 238486.10                     | 43.16                                 | 0.12                           | 238486.10                   | 0.52                                      | 0.00                               |
| 21   | Coastal-Puget Sound         | Olympic Peninsula               | FMO Marine              | Pacific Coast           | 515684.37                     | 57.19                                 | 0.07                           | 515684.37                   | 19.14                                     | 0.02                               |

| <b>ID #</b> | <b>Distinct Population Segment</b> | <b>Management Unit</b> | <b>Recovery Plan Area Type</b> | <b>Recovery Plan Area Name</b>   | <b>Total Acres in FMO of RP Area</b> | <b>Total (10,99) Miles in FMO of RP Area</b> | <b>Road Density in FMO of RP Area</b> | <b>Acres FPL in FMO of RP Area</b> | <b>FPL Total (10,99) Miles in FMO of RP Area</b> | <b>Road Density FPL in FMO of RP Area</b> |
|-------------|------------------------------------|------------------------|--------------------------------|----------------------------------|--------------------------------------|--|---------------------------------------|------------------------------------|--|---|
| 19          | Coastal-Puget Sound                | Olympic Peninsula      | FMO<br>Marine                  | Grays Harbor                     | 62306.23                             | 4.68   | 0.05                                  | 62306.23                           | 0.51   | 0.01                                      |
| 45          | Columbia River                     | Grande Ronde           | Core Area                      | Grande Ronde                     | 3117057.41                           | 205.68                                       | 0.04                                  | 3117057.41                         | 54.82  | 0.01                                      |
| 33          | Coastal-Puget Sound                | Puget Sound            | Core Area                      | Upper Skagit                     | 301623.34                            | 16.74  | 0.04                                  | 301623.34                          | 0.04   | 0.00                                      |
| 42          | Columbia River                     | Clark Fork             | Core Area                      | Priest Lake                      | 415444.03                            | 17.26  | 0.03                                  | 415444.03                          | -0.44  | 0.00                                      |
| 43          | Columbia River                     | Clearwater             | Core Area                      | Lower and Middle Fork Clearwater | 217308.69                            | 6.17   | 0.02                                  | 217308.69                          | 0.00   | 0.00                                      |
| 22          | Coastal-Puget Sound                | Olympic Peninsula      | FMO<br>Marine                  | Strait of Juan DeFuca            | 562734.10                            | 9.26   | 0.01                                  | 562734.10                          | 0.00   | 0.00                                      |

**Item: Number of Stream Road Crossings in Local Populations (Spawning and Rearing Habitat) in Washington**

Take stream Road Xings from Item 7 Dec 2005 work and merge East/West and WRIA29 as appropriate  
Clip WaStrRoadXing with WaLP; ID clipped file with WaLP

Frequency by LP and Road Type; future analysis could freq by stream type

sources: FPLands US FWS(selected areas from FFRLands.shp)

US FWS Draft Bull Trout Recovery Plans ( 2004& 2002)

**Stream Crossings by Local Population (Road Types and Totals)**

**LP Type:** L= Local Population; P= Potential Local Population

**Road Type:** 10 = Road; 20 = Trail; 30 = Railroad; 31 = Railroad Grade; 99 = unspecified transportation route

| ID # | Distinct Population Segment | Management Unit | Core Area                 | Local Population Name           | LP Type | Road Type = 10 | Road Type = 20 | Road Type = 30 | Road Type = 31 | Road Type = 99 | Total | LP Acres | Xing Density |
|------|-----------------------------|-----------------|---------------------------|---------------------------------|---------|----------------|----------------|----------------|----------------|----------------|-------|----------|--------------|
| 129  | Columbia River              | Upper Columbia  | Entiat River              | Mad River                       | L       | 2524           | 203            | 0              | 0              | 0              | 2727  | 58391    | 0.03         |
| 128  | Columbia River              | Upper Columbia  | Entiat River              | Entiat River                    | L       | 1953           | 159            | 0              | 0              | 0              | 2112  | 80643    | 0.06         |
| 46   | Coastal-Puget Sound         | Puget Sound     | Nooksack River            | Lower South Fork Nooksack River | L       | 1858           | 8              | 0              | 0              | 0              | 1866  | 76880    | 0.06         |
| 143  | Columbia River              | Upper Columbia  | Wenatchee River           | Nason Creek                     | L       | 1137           | 192            | 99             | 2              | 0              | 1430  | 70070    | 0.08         |
| 60   | Coastal-Puget Sound         | Puget Sound     | Snohomish/Skykomish River | South Fork Skykomish River      | L       | 1083           | 131            | 52             | 14             | 0              | 1280  | 175862   | 0.21         |
| 140  | Columbia River              | Upper Columbia  | Wenatchee River           | Chiwawa River                   | L       | 1072           | 226            | 0              | 0              | 3              | 1301  | 120809   | 0.15         |
| 55   | Coastal-Puget Sound         | Puget Sound     | Puyallup River            | Upper Puyallup & Mowich Rivers  | L       | 933            | 241            | 0              | 0              | 0              | 1174  | 58489    | 0.08         |
| 101  | Columbia River              | Middle Columbia | Yakima River              | Upper Yakima River              | L       | 765            | 11             | 13             | 3              | 0              | 792   | 38889    | 0.08         |
| 86   | Columbia River              | Middle Columbia | Yakima River              | Ahtamum Creek                   | L       | 714            | 23             | 0              | 0              | 0              | 737   | 69364    | 0.15         |
| 90   | Columbia River              | Middle Columbia | Yakima River              | Cle Elum River                  | L       | 607            | 444            | 3              | 2              | 0              | 1056  | 141656   | 0.21         |
| 93   | Columbia River              | Middle Columbia | Yakima River              | Gold Creek (2)                  | L       | 529            | 79             | 0              | 6              | 0              | 614   | 36233    | 0.09         |
| 141  | Columbia River              | Upper Columbia  | Wenatchee River           | Icicle Creek                    | L       | 491            | 529            | 0              | 0              | 0              | 1020  | 137202   | 0.21         |
| 96   | Columbia River              | Middle Columbia | Yakima River              | NFk Teanaway River              | L       | 452            | 409            | 0              | 0              | 0              | 861   | 60801    | 0.11         |
| 83   | Columbia River              | Lower Columbia  | Lewis River               | Pine Creek                      | L       | 449            | 29             | 0              | 0              | 0              | 478   | 15169    | 0.05         |

| ID # | Distinct Population Segment | Management Unit                 | Core Area           | Local Population Name            | LP Type | Road Type = 10 | Road Type = 20 | Road Type = 30 | Road Type = 31 | Road Type = 99 | Total | LP Acres | Xing Density |
|------|-----------------------------|---------------------------------|---------------------|----------------------------------|---------|----------------|----------------|----------------|----------------|----------------|-------|----------|--------------|
| 114  | Columbia River              | Snake River Basin in Washington | Asotin Creek        | NFk Asotin River                 | L       | 441            | 1              | 0              | 0              | 0              | 442   | 66579    | 0.24         |
| 54   | Coastal-Puget Sound         | Puget Sound                     | Puyallup River      | Greenwater River                 | L       | 433            | 20             | 0              | 0              | 0              | 453   | 32508    | 0.11         |
| 48   | Coastal-Puget Sound         | Puget Sound                     | Nooksack River      | Upper Middle Fork Nooksack River | L       | 421            | 8              | 0              | 0              | 0              | 429   | 46066    | 0.17         |
| 145  | Columbia River              | Upper Columbia                  | Wenatchee River     | White River                      | L       | 404            | 123            | 0              | 0              | 0              | 527   | 117473   | 0.35         |
| 131  | Columbia River              | Upper Columbia                  | Methow River        | Chewack River                    | L       | 380            | 221            | 0              | 0              | 0              | 601   | 208424   | 0.54         |
| 63   | Coastal-Puget Sound         | Puget Sound                     | Stillaguamish River | North Fork Stillaguamish River   | L       | 362            | 0              | 7              | 0              | 0              | 369   | 61305    | 0.26         |
| 45   | Coastal-Puget Sound         | Puget Sound                     | Nooksack River      | Lower North Fork Nooksack River  | L       | 359            | 0              | 0              | 0              | 0              | 359   | 21767    | 0.09         |
| 52   | Coastal-Puget Sound         | Puget Sound                     | Puyallup River      | Carbon River                     | L       | 358            | 93             | 0              | 0              | 0              | 451   | 51796    | 0.18         |
| 100  | Columbia River              | Middle Columbia                 | Yakima River        | Taneum Creek PLP                 | P       | 353            | 87             | 0              | 0              | 0              | 440   | 39980    | 0.14         |
| 14   | Coastal-Puget Sound         | Puget Sound                     | Chester Morse       | Cedar River                      | L       | 342            | 1              | 0              | 0              | 0              | 343   | 27476    | 0.13         |
| 111  | Columbia River              | Northeast Washington            | Pend Oreille River  | Sullivan Creek PLP               | P       | 292            | 0              | 0              | 0              | 0              | 292   | 45651    | 0.24         |
| 105  | Columbia River              | Northeast Washington            | Pend Oreille River  | Le Clerc Creek                   | L       | 288            | 0              | 0              | 0              | 0              | 288   | 48415    | 0.26         |
| 13   | Coastal-Puget Sound         | Puget Sound                     | Chester Morse       | Boulder Creek                    | L       | 279            | 0              | 0              | 0              | 0              | 279   | 14688    | 0.08         |
| 82   | Columbia River              | Lower Columbia                  | Lewis River         | Cougar Creek                     | L       | 279            | 8              | 0              | 0              | 0              | 287   | 10614    | 0.06         |
| 53   | Coastal-Puget Sound         | Puget Sound                     | Puyallup River      | Clearwater River PLP             | P       | 274            | 9              | 0              | 0              | 0              | 283   | 24734    | 0.14         |
| 44   | Coastal-Puget Sound         | Puget Sound                     | Nooksack River      | Lower Middle Fork Nooksack River | L       | 263            | 0              | 0              | 0              | 0              | 263   | 17495    | 0.10         |
| 99   | Columbia River              | Middle Columbia                 | Yakima River        | SFk Tieton River                 | L       | 252            | 45             | 0              | 0              | 0              | 297   | 57302    | 0.30         |
| 64   | Coastal-Puget Sound         | Puget Sound                     | Stillaguamish River | South Fork Stillaguamish River   | L       | 248            | 73             | 0              | 0              | 0              | 321   | 46508    | 0.23         |
| 125  | Columbia River              | Umatilla-Walla Walla            | Walla Walla River   | North Fork Touchet River         | L       | 247            | 3              | 0              | 0              | 0              | 250   | 38456    | 0.24         |
| 139  | Columbia River              | Upper Columbia                  | Wenatchee River     | Chiwaukum Creek                  | L       | 233            | 257            | 6              | 0              | 0              | 496   | 31070    | 0.10         |
| 95   | Columbia River              | Middle Columbia                 | Yakima River        | Kachess River                    | L       | 227            | 24             | 0              | 0              | 0              | 251   | 33061    | 0.21         |
| 115  | Columbia River              | Snake River Basin in Washington | Asotin Creek        | Wormell Gulch PLP                | P       | 219            | 12             | 0              | 0              | 0              | 231   | 48628    | 0.33         |
| 65   | Coastal-Puget Sound         | Puget Sound                     | Stillaguamish River | Upper Deer Creek                 | L       | 216            | 0              | 0              | 0              | 0              | 216   | 22599    | 0.16         |
| 1    | Coastal-Puget Sound         | Olympic Peninsula               | Dungeness River     | Dungeness River                  | L       | 201            | 1              | 0              | 0              | 3              | 205   | 22734    | 0.17         |
| 113  | Columbia River              | Snake River Basin in Washington | Asotin Creek        | Charley Creek                    | L       | 201            | 0              | 0              | 0              | 0              | 201   | 14456    | 0.11         |
| 56   | Coastal-Puget Sound         | Puget Sound                     | Puyallup River      | Upper White River                | L       | 194            | 88             | 0              | 0              | 0              | 282   | 96129    | 0.53         |

| ID # | Distinct Population Segment | Management Unit      | Core Area                 | Local Population Name            | LP Type | Road Type = 10 | Road Type = 20 | Road Type = 30 | Road Type = 31 | Road Type = 99 | Total | LP Acres | Xing Density |
|------|-----------------------------|----------------------|---------------------------|----------------------------------|---------|----------------|----------------|----------------|----------------|----------------|-------|----------|--------------|
| 62   | Coastal-Puget Sound         | Puget Sound          | Stillaguamish River       | Canyon Creek                     | L       | 184            | 0              | 0              | 0              | 0              | 184   | 28852    | 0.25         |
| 142  | Columbia River              | Upper Columbia       | Wenatchee River           | Little Wenatchee River           | L       | 182            | 41             | 0              | 0              | 0              | 223   | 64813    | 0.45         |
| 42   | Coastal-Puget Sound         | Puget Sound          | Nooksack River            | Glacier Creek                    | L       | 176            | 2              | 0              | 0              | 0              | 178   | 20320    | 0.18         |
| 136  | Columbia River              | Upper Columbia       | Methow River              | Twisp River                      | L       | 166            | 121            | 0              | 0              | 0              | 287   | 132274   | 0.72         |
| 106  | Columbia River              | Northeast Washington | Pend Oreille River        | Mill Creek PLP                   | P       | 160            | 0              | 0              | 0              | 0              | 160   | 12428    | 0.12         |
| 12   | Coastal-Puget Sound         | Olympic Peninsula    | Skokomish River           | South Fork Skokomish River       | L       | 158            | 23             | 0              | 0              | 0              | 181   | 24608    | 0.21         |
| 57   | Coastal-Puget Sound         | Puget Sound          | Puyallup River            | West Fork White River            | L       | 156            | 39             | 0              | 0              | 0              | 195   | 41992    | 0.34         |
| 47   | Coastal-Puget Sound         | Puget Sound          | Nooksack River            | Middle North Fork Nooksack River | L       | 155            | 0              | 0              | 0              | 0              | 155   | 9010     | 0.09         |
| 10   | Coastal-Puget Sound         | Olympic Peninsula    | Skokomish River           | Brown Creek PLP                  | P       | 137            | 0              | 0              | 0              | 0              | 137   | 5102     | 0.06         |
| 85   | Columbia River              | Lower Columbia       | Lewis River               | Upper Lewis River PLP            | P       | 137            | 29             | 0              | 0              | 0              | 166   | 73799    | 0.69         |
| 58   | Coastal-Puget Sound         | Puget Sound          | Snohomish/Skykomish River | North Fork Skykomish River       | L       | 125            | 40             | 0              | 0              | 0              | 165   | 52932    | 0.50         |
| 110  | Columbia River              | Northeast Washington | Pend Oreille River        | Small Creek PLP                  | P       | 118            | 0              | 0              | 0              | 0              | 118   | 17211    | 0.23         |
| 126  | Columbia River              | Umatilla-Walla Walla | Walla Walla River         | South Fork Touchet River         | L       | 118            | 24             | 0              | 0              | 0              | 142   | 12482    | 0.14         |
| 97   | Columbia River              | Middle Columbia      | Yakima River              | NFk Tieton River                 | L       | 115            | 37             | 0              | 0              | 0              | 152   | 73144    | 0.75         |
| 43   | Coastal-Puget Sound         | Puget Sound          | Nooksack River            | Lower Canyon Creek               | L       | 110            | 2              | 0              | 0              | 0              | 112   | 19767    | 0.28         |
| 103  | Columbia River              | Northeast Washington | Pend Oreille River        | Harvey Creek PLP                 | P       | 110            | 0              | 0              | 0              | 0              | 110   | 25507    | 0.36         |
| 76   | Columbia River              | Clark Fork           | Priest Lake               | Granite Creek                    | L       | 103            | 0              | 0              | 0              | 0              | 103   | 40527    | 0.61         |
| 98   | Columbia River              | Middle Columbia      | Yakima River              | Rattlesnake Creek                | L       | 103            | 66             | 0              | 0              | 0              | 169   | 69699    | 0.64         |
| 112  | Columbia River              | Northeast Washington | Pend Oreille River        | Tacoma Creek PLP                 | P       | 102            | 0              | 0              | 0              | 0              | 102   | 15856    | 0.24         |
| 77   | Columbia River              | Clark Fork           | Priest Lake               | Kalispell Creek                  | L       | 100            | 1              | 0              | 0              | 0              | 101   | 14959    | 0.23         |
| 133  | Columbia River              | Upper Columbia       | Methow River              | Goat Creek                       | L       | 96             | 0              | 0              | 0              | 0              | 96    | 23026    | 0.37         |
| 49   | Coastal-Puget Sound         | Puget Sound          | Nooksack River            | Upper North Fork Nooksack River  | L       | 92             | 3              | 0              | 0              | 0              | 95    | 29409    | 0.48         |
| 91   | Columbia River              | Middle Columbia      | Yakima River              | Crow Creek                       | L       | 88             | 41             | 0              | 0              | 0              | 129   | 54515    | 0.66         |
| 107  | Columbia River              | Northeast Washington | Pend Oreille River        | Ruby Creek PLP (2)               | P       | 87             | 0              | 1              | 0              | 0              | 88    | 19810    | 0.35         |
| 26   | Coastal-Puget Sound         | Puget Sound          | Lower Skagit River        | Forks of Sauk River              | L       | 78             | 43             | 0              | 0              | 0              | 121   | 68178    | 0.88         |
| 6    | Coastal-Puget Sound         | Olympic Peninsula    | Hoh River                 | South Fork Hoh River             | L       | 73             | 5              | 0              | 0              | 3              | 81    | 34123    | 0.66         |
| 102  | Columbia River              | Northeast Washington | Pend Oreille River        | Cedar Creek PLP                  | P       | 73             | 0              | 1              | 0              | 0              | 74    | 11655    | 0.25         |
| 22   | Coastal-Puget Sound         | Puget Sound          | Lower Skagit River        | Baker Lake                       | L       | 71             | 19             | 0              | 0              | 0              | 90    | 137800   | 2.39         |

| ID # | Distinct Population Segment | Management Unit                 | Core Area                 | Local Population Name       | LP Type | Road Type = 10 | Road Type = 20 | Road Type = 30 | Road Type = 31 | Road Type = 99 | Total | LP Acres | Xing Density |
|------|-----------------------------|---------------------------------|---------------------------|-----------------------------|---------|----------------|----------------|----------------|----------------|----------------|-------|----------|--------------|
| 28   | Coastal-Puget Sound         | Puget Sound                     | Lower Skagit River        | Illabot Creek               | L       | 71             | 1              | 0              | 0              | 0              | 72    | 27581    | 0.60         |
| 134  | Columbia River              | Upper Columbia                  | Methow River              | Gold Creek (3)              | L       | 69             | 38             | 0              | 0              | 0              | 107   | 38918    | 0.57         |
| 72   | Coastal-Puget Sound         | Puget Sound                     | Upper Skagit River        | Ruby Creek                  | L       | 60             | 140            | 0              | 0              | 0              | 200   | 112096   | 0.88         |
| 89   | Columbia River              | Middle Columbia                 | Yakima River              | Bumping River               | L       | 60             | 39             | 0              | 0              | 0              | 99    | 57839    | 0.91         |
| 21   | Coastal-Puget Sound         | Puget Sound                     | Lower Skagit River        | Bacon Creek                 | L       | 57             | 0              | 0              | 0              | 0              | 57    | 32670    | 0.90         |
| 109  | Columbia River              | Northeast Washington            | Pend Oreille River        | Slate Creek PLP             | P       | 57             | 0              | 0              | 0              | 0              | 57    | 20545    | 0.56         |
| 4    | Coastal-Puget Sound         | Olympic Peninsula               | Elwha River               | Little River PLP            | P       | 54             | 12             | 0              | 0              | 0              | 66    | 14642    | 0.35         |
| 127  | Columbia River              | Umatilla-Walla Walla            | Walla Walla River         | Wolf Fork Touchet River     | L       | 54             | 30             | 0              | 0              | 0              | 84    | 6558     | 0.12         |
| 116  | Columbia River              | Snake River Basin in Washington | Tucannon River            | Cummings Creek              | L       | 53             | 0              | 0              | 0              | 0              | 53    | 12749    | 0.38         |
| 38   | Coastal-Puget Sound         | Puget Sound                     | Lower Skagit River        | Tenas Creek                 | L       | 50             | 0              | 0              | 0              | 0              | 50    | 6706     | 0.21         |
| 132  | Columbia River              | Upper Columbia                  | Methow River              | Early Winters Creek         | L       | 50             | 50             | 0              | 0              | 0              | 100   | 51476    | 0.80         |
| 35   | Coastal-Puget Sound         | Puget Sound                     | Lower Skagit River        | Straight Creek              | L       | 45             | 0              | 0              | 0              | 0              | 45    | 7213     | 0.25         |
| 15   | Coastal-Puget Sound         | Puget Sound                     | Chester Morse             | Rack Creek                  | L       | 43             | 0              | 0              | 0              | 0              | 43    | 1408     | 0.05         |
| 118  | Columbia River              | Snake River Basin in Washington | Tucannon River            | Little Tucannon River       | P       | 41             | 0              | 0              | 0              | 0              | 41    | 4805     | 0.18         |
| 87   | Columbia River              | Middle Columbia                 | Yakima River              | American River              | L       | 40             | 62             | 0              | 0              | 0              | 102   | 50820    | 0.78         |
| 79   | Columbia River              | Grande Ronde                    | Grande Ronde River        | Crooked Creek               | L       | 37             | 79             | 0              | 0              | 0              | 116   | 47821    | 0.64         |
| 75   | Columbia River              | Clark Fork                      | Priest Lake               | Gold Creek                  | L       | 35             | 0              | 0              | 0              | 0              | 35    | 15366    | 0.69         |
| 81   | Columbia River              | Lower Columbia                  | Klickitat River           | West Fork Klickitat River   | L       | 35             | 4              | 0              | 0              | 0              | 39    | 58437    | 2.34         |
| 122  | Columbia River              | Snake River Basin in Washington | Tucannon River            | Tucannon River              | L       | 34             | 14             | 0              | 0              | 0              | 48    | 28757    | 0.94         |
| 30   | Coastal-Puget Sound         | Puget Sound                     | Lower Skagit River        | Lower Whitechuck River      | L       | 31             | 14             | 0              | 0              | 0              | 45    | 29936    | 1.04         |
| 24   | Coastal-Puget Sound         | Puget Sound                     | Lower Skagit River        | Cascade River               | L       | 30             | 0              | 0              | 0              | 0              | 30    | 20868    | 1.09         |
| 11   | Coastal-Puget Sound         | Olympic Peninsula               | Skokomish River           | North Fork Skokomish River  | L       | 24             | 23             | 0              | 0              | 0              | 47    | 27357    | 0.91         |
| 137  | Columbia River              | Upper Columbia                  | Methow River              | Wfk Methow River            | L       | 24             | 54             | 0              | 0              | 0              | 78    | 54602    | 1.09         |
| 59   | Coastal-Puget Sound         | Puget Sound                     | Snohomish/Skykomish River | Salmon Creek                | L       | 22             | 0              | 0              | 0              | 0              | 22    | 5304     | 0.38         |
| 88   | Columbia River              | Middle Columbia                 | Yakima River              | Box Cayon Creek             | L       | 22             | 19             | 0              | 0              | 0              | 41    | 7966     | 0.30         |
| 39   | Coastal-Puget Sound         | Puget Sound                     | Lower Skagit River        | Upper South Fork Sauk River | L       | 20             | 3              | 0              | 0              | 0              | 23    | 11598    | 0.79         |

| ID # | Distinct Population Segment | Management Unit                 | Core Area                 | Local Population Name            | LP Type | Road Type = 10 | Road Type = 20 | Road Type = 30 | Road Type = 31 | Road Type = 99 | Total | LP Acres | Xing Density |
|------|-----------------------------|---------------------------------|---------------------------|----------------------------------|---------|----------------|----------------|----------------|----------------|----------------|-------|----------|--------------|
| 120  | Columbia River              | Snake River Basin in Washington | Tucannon River            | Meadow Creek                     | L       | 20             | 23             | 0              | 0              | 0              | 43    | 4516     | 0.16         |
| 84   | Columbia River              | Lower Columbia                  | Lewis River               | Rush Creek                       | L       | 18             | 26             | 0              | 0              | 0              | 44    | 16874    | 0.60         |
| 104  | Columbia River              | Northeast Washington            | Pend Oreille River        | Indian Creek PLP (2)             | P       | 18             | 0              | 0              | 0              | 0              | 18    | 3441     | 0.30         |
| 144  | Columbia River              | Upper Columbia                  | Wenatchee River           | Peshastin Creek                  | L       | 15             | 164            | 0              | 0              | 0              | 179   | 23545    | 0.21         |
| 2    | Coastal-Puget Sound         | Olympic Peninsula               | Dungeness River           | Gray Wolf River                  | L       | 14             | 78             | 0              | 0              | 0              | 92    | 48749    | 0.83         |
| 108  | Columbia River              | Northeast Washington            | Pend Oreille River        | SFk Tacoma Creek PLP             | P       | 14             | 1              | 0              | 0              | 0              | 15    | 10373    | 1.08         |
| 9    | Coastal-Puget Sound         | Olympic Peninsula               | Quinault River            | Upper Quinault River             | L       | 13             | 49             | 0              | 0              | 1              | 63    | 57524    | 1.43         |
| 130  | Columbia River              | Upper Columbia                  | Methow River              | Blue Buck Creek                  | L       | 13             | 10             | 0              | 0              | 0              | 23    | 5429     | 0.37         |
| 138  | Columbia River              | Upper Columbia                  | Methow River              | Wolf Creek                       | L       | 13             | 52             | 0              | 0              | 0              | 65    | 25832    | 0.62         |
| 5    | Coastal-Puget Sound         | Olympic Peninsula               | Hoh River                 | Hoh River                        | L       | 11             | 31             | 0              | 0              | 10             | 52    | 66123    | 1.99         |
| 51   | Coastal-Puget Sound         | Puget Sound                     | Nooksack River            | Wanlick Creek                    | L       | 11             | 1              | 0              | 0              | 0              | 12    | 6276     | 0.82         |
| 23   | Coastal-Puget Sound         | Puget Sound                     | Lower Skagit River        | Buck Creek                       | L       | 10             | 5              | 0              | 0              | 0              | 15    | 21765    | 2.27         |
| 27   | Coastal-Puget Sound         | Puget Sound                     | Lower Skagit River        | Goodell Creek                    | L       | 10             | 0              | 0              | 0              | 0              | 10    | 25042    | 3.91         |
| 32   | Coastal-Puget Sound         | Puget Sound                     | Lower Skagit River        | Newhalem Creek                   | L       | 10             | 0              | 0              | 0              | 0              | 10    | 17491    | 2.73         |
| 117  | Columbia River              | Snake River Basin in Washington | Tucannon River            | Hixon Creek                      | P       | 10             | 0              | 0              | 0              | 0              | 10    | 1988     | 0.31         |
| 16   | Coastal-Puget Sound         | Puget Sound                     | Chester Morse             | Shotgun Creek PLP                | P       | 8              | 0              | 0              | 0              | 0              | 8     | 515      | 0.10         |
| 50   | Coastal-Puget Sound         | Puget Sound                     | Nooksack River            | Upper South Fork Nooksack River  | L       | 8              | 6              | 0              | 0              | 0              | 14    | 13348    | 1.49         |
| 3    | Coastal-Puget Sound         | Olympic Peninsula               | Elwha River               | Elwha River                      | L       | 7              | 84             | 0              | 0              | 0              | 91    | 156679   | 2.69         |
| 37   | Coastal-Puget Sound         | Puget Sound                     | Lower Skagit River        | Sulphur Creek (Lake Shannon) PLP | P       | 7              | 8              | 0              | 0              | 0              | 15    | 6443     | 0.67         |
| 92   | Columbia River              | Middle Columbia                 | Yakima River              | Deep Creek                       | L       | 7              | 12             | 0              | 0              | 0              | 19    | 15495    | 1.27         |
| 80   | Columbia River              | Grande Ronde                    | Grande Ronde River        | North Fork Wenaha River          | L       | 6              | 0              | 0              | 0              | 0              | 6     | 11292    | 2.94         |
| 29   | Coastal-Puget Sound         | Puget Sound                     | Lower Skagit River        | Lime Creek                       | L       | 4              | 0              | 0              | 0              | 0              | 4     | 11261    | 4.40         |
| 33   | Coastal-Puget Sound         | Puget Sound                     | Lower Skagit River        | South Fork Cascade River         | L       | 4              | 45             | 0              | 0              | 0              | 49    | 23201    | 0.74         |
| 94   | Columbia River              | Middle Columbia                 | Yakima River              | Indian Creek                     | L       | 4              | 14             | 0              | 0              | 0              | 18    | 10548    | 0.92         |
| 135  | Columbia River              | Upper Columbia                  | Methow River              | Lost River                       | L       | 3              | 99             | 0              | 0              | 0              | 102   | 107396   | 1.65         |
| 61   | Coastal-Puget Sound         | Puget Sound                     | Snohomish/Skykomish River | Troublesome Creek                | L       | 2              | 0              | 0              | 0              | 0              | 2     | 8302     | 6.49         |

| ID # | Distinct Population Segment | Management Unit                 | Core Area          | Local Population Name     | LP Type | Road Type = 10 | Road Type = 20 | Road Type = 30 | Road Type = 31 | Road Type = 99 | Total | LP Acres | Xing Density |
|------|-----------------------------|---------------------------------|--------------------|---------------------------|---------|----------------|----------------|----------------|----------------|----------------|-------|----------|--------------|
| 119  | Columbia River              | Snake River Basin in Washington | Tucannon River     | Little Turkey Creek       | L       | 2              | 0              | 0              | 0              | 0              | 2     | 1504     | 1.18         |
| 121  | Columbia River              | Snake River Basin in Washington | Tucannon River     | Panjab Creek              | L       | 2              | 11             | 0              | 0              | 0              | 13    | 7422     | 0.89         |
| 8    | Coastal-Puget Sound         | Olympic Peninsula               | Quinault River     | North Fork Quinault River | L       | 1              | 12             | 0              | 0              | 5              | 18    | 42545    | 3.69         |
| 25   | Coastal-Puget Sound         | Puget Sound                     | Lower Skagit River | Downey Creek              | L       | 1              | 6              | 0              | 0              | 0              | 7     | 22843    | 5.10         |
| 34   | Coastal-Puget Sound         | Puget Sound                     | Lower Skagit River | Stetattle Creek           | L       | 1              | 6              | 0              | 0              | 0              | 7     | 14455    | 3.23         |
| 36   | Coastal-Puget Sound         | Puget Sound                     | Lower Skagit River | Sulphur Creek             | L       | 1              | 3              | 0              | 0              | 0              | 4     | 21060    | 8.23         |
| 123  | Columbia River              | Snake River Basin in Washington | Tucannon River     | Turkey Creek              | L       | 1              | 2              | 0              | 0              | 0              | 3     | 2874     | 1.50         |
| 7    | Coastal-Puget Sound         | Olympic Peninsula               | Queets River       | Queets River              | L       | 0              | 15             | 0              | 0              | 0              | 15    | 47007    | 4.90         |
| 17   | Coastal-Puget Sound         | Puget Sound                     | Chilliwack River   | Depot Creek               | L       | 0              | 0              | 0              | 0              | 0              | 0     | 7999     | #DIV/0!      |
| 18   | Coastal-Puget Sound         | Puget Sound                     | Chilliwack River   | Little Chilliwack River   | L       | 0              | 0              | 0              | 0              | 0              | 0     | 8153     | #DIV/0!      |
| 19   | Coastal-Puget Sound         | Puget Sound                     | Chilliwack River   | Silesia Creek             | L       | 0              | 13             | 0              | 0              | 0              | 13    | 25415    | 3.05         |
| 20   | Coastal-Puget Sound         | Puget Sound                     | Chilliwack River   | Upper Chilliwack River    | L       | 0              | 48             | 0              | 0              | 9              | 57    | 35074    | 0.96         |
| 31   | Coastal-Puget Sound         | Puget Sound                     | Lower Skagit River | Milk Creek                | L       | 0              | 13             | 0              | 0              | 0              | 13    | 9290     | 1.12         |
| 40   | Coastal-Puget Sound         | Puget Sound                     | Lower Skagit River | Upper Suiattle River      | L       | 0              | 45             | 0              | 0              | 0              | 45    | 57546    | 2.00         |
| 41   | Coastal-Puget Sound         | Puget Sound                     | Lower Skagit River | Upper Whitechuck River    | L       | 0              | 25             | 0              | 0              | 0              | 25    | 24574    | 1.54         |
| 66   | Coastal-Puget Sound         | Puget Sound                     | Upper Skagit River | Big Beaver Creek          | L       | 0              | 33             | 0              | 0              | 0              | 33    | 42238    | 2.00         |
| 67   | Coastal-Puget Sound         | Puget Sound                     | Upper Skagit River | Deer Creek PLP            | P       | 0              | 1              | 0              | 0              | 0              | 1     | 234      | 0.37         |
| 68   | Coastal-Puget Sound         | Puget Sound                     | Upper Skagit River | Lightning Creek           | L       | 0              | 17             | 0              | 0              | 0              | 17    | 72637    | 6.68         |
| 69   | Coastal-Puget Sound         | Puget Sound                     | Upper Skagit River | Little Beaver Creek       | L       | 0              | 44             | 0              | 0              | 0              | 44    | 34429    | 1.22         |
| 70   | Coastal-Puget Sound         | Puget Sound                     | Upper Skagit River | Panther Creek             | L       | 0              | 15             | 0              | 0              | 0              | 15    | 23583    | 2.46         |
| 71   | Coastal-Puget Sound         | Puget Sound                     | Upper Skagit River | Pierce Creek              | L       | 0              | 2              | 0              | 0              | 0              | 2     | 2573     | 2.01         |
| 73   | Coastal-Puget Sound         | Puget Sound                     | Upper Skagit River | Silver Creek              | L       | 0              | 0              | 0              | 0              | 0              | 0     | 10683    | #DIV/0!      |
| 74   | Coastal-Puget Sound         | Puget Sound                     | Upper Skagit River | Thunder Creek             | L       | 0              | 39             | 0              | 0              | 0              | 39    | 69415    | 2.78         |
| 78   | Columbia River              | Grande Ronde                    | Grande Ronde River | Butte Creek               | L       | 0              | 24             | 0              | 0              | 0              | 24    | 26506    | 1.73         |
| 124  | Columbia River              | Umatilla-Walla Walla            | Walla Walla River  | Mill Creek (2)            | L       | 0              | 68             | 0              | 0              | 0              | 68    | 13441    | 0.31         |
|      |                             |                                 |                    |                           |         |                |                |                |                |                | 33362 | 5597158  |              |



**Item: Transportation Miles within RMZ Buffers (on FPLands) by Local Population**

Identify WaLP with East RMZ (rows highlighted yellow) and West RMZ buffers (rows highlighted green)  
 Calculate length for east and west  
 Select for LP > " and Roadtype = 10 or 99 (10 = Road; 99 = unspecified transportation route)  
 Frequency east and west on FWSTYPE, LP (&DPS,MU,L\_P type), summing Length  
 Convert to mdb using crystal reports, convert to excel using access, copy paste roadtype 10 + 99 to main xls  
 sources: FPLands US FWS(selected areas from FFRLands.shp); US FWS WaLP Draft 2006/03;  
 WDNR Hydro 2005 Eastside & Westside; WDNR transportation 2005  
**Stream Adjacent Roads by Local Population (FP lands)**  
**LP Type:** L= Local Population; P= Potential Local Population

**Specific RMZ widths used in analysis**

| RMZ Assumptions                              | Western Washington |               |              |          | Eastern Washington |               |              |          |
|--|--------------------|---------------|--------------|----------|--------------------|---------------|--------------|----------|
|  | Type S             | Type F        | Type Np      | Type Ns  | Type S             | Type F        | Type Np      | Type Ns  |
| Mean riparian tree height or other RMZ width | 200                | 155           | 155          | 0        | 130                | 100           | 100          | 0        |
| Assumption: 1/2 mean bankfull width          | 30                 | 5.25          | 2.5          | 0        | 25                 | 3.75          | 2.5          | 0        |
| Mean channel migration zone width            | 30                 | 10            | 0            | 0        | 5                  | 2             | 0            | 0        |
| <b>Total RMZ width:</b>                      | <b>260</b>         | <b>170.25</b> | <b>157.5</b> | <b>0</b> | <b>160</b>         | <b>105.75</b> | <b>102.5</b> | <b>0</b> |

| ID # | Distinct Population Segment | Management Unit | Core Area      | Local Population Name           | LP Type | Roads 10&99 RMZ Buffer Type S | Roads 10&99 RMZ Buffer Type F | Roads 10&99 RMZ Buffer Type Np | Total RMZ |          |       |       |
|------|-----------------------------|-----------------|----------------|---------------------------------|---------|-------------------------------|-------------------------------|--------------------------------|-----------|----------|-------|-------|
|      |                             |                 |                |                                 |         | Meters                        | Miles                         | Meters                         | Miles     | Meters   | Miles |       |
| 46   | Coastal-Puget Sound         | Puget Sound     | Nooksack River | Lower South Fork Nooksack River | L       | 15334.11                      | 9.53                          | 11562.17                       | 7.18      | 25754.88 | 16.00 | 32.72 |
| 86   | Columbia River              | Middle Columbia | Yakima River   | Ahtanum Creek                   | L       | 6051.17                       | 3.76                          | 18715.61                       | 11.63     | 15068.52 | 9.36  | 24.75 |
| 55   | Coastal-Puget Sound         | Puget Sound     | Puyallup River | Upper Puyallup & Mowich Rivers  | L       | 6786.92                       | 4.22                          | 7798.31                        | 4.85      | 12688.16 | 7.88  | 16.95 |
| 96   | Columbia River              | Middle Columbia | Yakima River   | NFk Teanaway River              | L       | 2354.40                       | 1.46                          | 11160.58                       | 6.94      | 9771.44  | 6.07  | 14.47 |

| ID # | Distinct Population Segment | Management Unit      | Core Area                 | Local Population Name            | LP Type | Roads 10&99 RMZ Buffer Type S |      | Roads 10&99 RMZ Buffer Type F |      | Roads 10&99 RMZ Buffer Type Np |      | Total RMZ |
|------|-----------------------------|----------------------|---------------------------|----------------------------------|---------|-------------------------------|------|-------------------------------|------|--------------------------------|------|-----------|
| 53   | Coastal-Puget Sound         | Puget Sound          | Puyallup River            | Clearwater River PLP             | P       | 1911.73                       | 1.19 | 6682.16                       | 4.15 | 7455.00                        | 4.63 | 9.97      |
| 45   | Coastal-Puget Sound         | Puget Sound          | Nooksack River            | Lower North Fork Nooksack River  | L       | 5780.68                       | 3.59 | 3443.88                       | 2.14 | 5618.27                        | 3.49 | 9.22      |
| 143  | Columbia River              | Upper Columbia       | Wenatchee River           | Nason Creek                      | L       | 4392.42                       | 2.73 | 5792.25                       | 3.60 | 4557.23                        | 2.83 | 9.16      |
| 60   | Coastal-Puget Sound         | Puget Sound          | Snohomish/Skykomish River | South Fork Skykomish River       | L       | 6846.17                       | 4.25 | 4267.88                       | 2.65 | 3103.50                        | 1.93 | 8.83      |
| 126  | Columbia River              | Umatilla-Walla Walla | Walla Walla River         | South Fork Touchet River         | L       |                               | 0.00 | 9820.99                       | 6.10 | 3555.73                        | 2.21 | 8.31      |
| 128  | Columbia River              | Upper Columbia       | Entiat River              | Entiat River                     | L       | 8447.13                       | 5.25 | 1895.07                       | 1.18 | 2444.40                        | 1.52 | 7.95      |
| 125  | Columbia River              | Umatilla-Walla Walla | Walla Walla River         | North Fork Touchet River         | L       | 4111.33                       | 2.55 | 4128.78                       | 2.57 | 2917.21                        | 1.81 | 6.93      |
| 44   | Coastal-Puget Sound         | Puget Sound          | Nooksack River            | Lower Middle Fork Nooksack River | L       | 3295.45                       | 2.05 | 3395.91                       | 2.11 | 4287.94                        | 2.66 | 6.82      |
| 63   | Coastal-Puget Sound         | Puget Sound          | Stillaguamish River       | North Fork Stillaguamish River   | L       | 6238.01                       | 3.88 | 2824.09                       | 1.75 | 1836.87                        | 1.14 | 6.77      |
| 83   | Columbia River              | Lower Columbia       | Lewis River               | Pine Creek                       | L       | 0.00                          | 0.00 | 6034.08                       | 3.75 | 4265.80                        | 2.65 | 6.40      |
| 105  | Columbia River              | Northeast Washington | Pend Oreille River        | Le Clerc Creek                   | L       | 3005.12                       | 1.87 | 5031.19                       | 3.13 | 1868.70                        | 1.16 | 6.15      |
| 90   | Columbia River              | Middle Columbia      | Yakima River              | Cle Elum River                   | L       | 2575.09                       | 1.60 | 4025.39                       | 2.50 | 2307.71                        | 1.43 | 5.54      |
| 141  | Columbia River              | Upper Columbia       | Wenatchee River           | Icicle Creek                     | L       | 4564.76                       | 2.84 | 243.42                        | 0.15 | 2380.59                        | 1.48 | 4.47      |
| 54   | Coastal-Puget Sound         | Puget Sound          | Puyallup River            | Greenwater River                 | L       | 3723.37                       | 2.31 | 1956.89                       | 1.22 | 1397.70                        | 0.87 | 4.40      |
| 145  | Columbia River              | Upper Columbia       | Wenatchee River           | White River                      | L       | 4261.50                       | 2.65 | 1675.72                       | 1.04 | 460.50                         | 0.29 | 3.98      |
| 57   | Coastal-Puget Sound         | Puget Sound          | Puyallup River            | West Fork White River            | L       | 1107.81                       | 0.69 | 2817.41                       | 1.75 | 2437.52                        | 1.51 | 3.95      |
| 101  | Columbia River              | Middle Columbia      | Yakima River              | Upper Yakima River               | L       | 3542.73                       | 2.20 | 581.96                        | 0.36 | 1946.99                        | 1.21 | 3.77      |
| 82   | Columbia River              | Lower Columbia       | Lewis River               | Cougar Creek                     | L       | 962.41                        | 0.60 | 1603.53                       | 1.00 | 2806.45                        | 1.74 | 3.34      |
| 52   | Coastal-Puget Sound         | Puget Sound          | Puyallup River            | Carbon River                     | L       | 1233.93                       | 0.77 | 1853.79                       | 1.15 | 2145.31                        | 1.33 | 3.25      |
| 93   | Columbia River              | Middle Columbia      | Yakima River              | Gold Creek (2)                   | L       | 1117.33                       | 0.69 | 2588.13                       | 1.61 | 1204.74                        | 0.75 | 3.05      |
| 56   | Coastal-Puget Sound         | Puget Sound          | Puyallup River            | Upper White River                | L       | 1373.84                       | 0.85 | 474.23                        | 0.29 | 2552.80                        | 1.59 | 2.73      |

| <b>ID #</b> | <b>Distinct Population Segment</b> | <b>Management Unit</b>          | <b>Core Area</b>          | <b>Local Population Name</b>     | <b>LP Type</b> | <b>Roads 10&amp;99 RMZ Buffer Type S</b> | <b>Roads 10&amp;99 RMZ Buffer Type F</b> | <b>Roads 10&amp;99 RMZ Buffer Type Np</b> | <b>Total RMZ</b> |         |      |      |
|-------------|------------------------------------|---------------------------------|---------------------------|----------------------------------|----------------|--|--|---|------------------|---------|------|------|
| 48          | Coastal-Puget Sound                | Puget Sound                     | Nooksack River            | Upper Middle Fork Nooksack River | L              | 1681.42                                  | 1.04                                     | 1067.56                                   | 0.66             | 1546.30 | 0.96 | 2.67 |
| 47          | Coastal-Puget Sound                | Puget Sound                     | Nooksack River            | Middle North Fork Nooksack River | L              | 182.07                                   | 0.11                                     | 2279.99                                   | 1.42             | 1778.18 | 1.10 | 2.63 |
| 106         | Columbia River                     | Northeast Washington            | Pend Oreille River        | Mill Creek PLP                   | P              |  | 0.00                                     | 1807.51                                   | 1.12             | 2193.60 | 1.36 | 2.49 |
| 127         | Columbia River                     | Umatilla-Walla Walla            | Walla Walla River         | Wolf Fork Touchet River          | L              |  | 0.00                                     | 3429.01                                   | 2.13             | 100.16  | 0.06 | 2.19 |
| 115         | Columbia River                     | Snake River Basin in Washington | Asotin Creek              | Wormell Gulch PLP                | P              |  | 0.00                                     | 1971.61                                   | 1.23             | 1469.59 | 0.91 | 2.14 |
| 64          | Coastal-Puget Sound                | Puget Sound                     | Stillaguamish River       | South Fork Stillaguamish River   | L              | 2262.41                                  | 1.41                                     | 931.96                                    | 0.58             | 113.31  | 0.07 | 2.06 |
| 42          | Coastal-Puget Sound                | Puget Sound                     | Nooksack River            | Glacier Creek                    | L              | 493.33                                   | 0.31                                     | 1094.37                                   | 0.68             | 1629.71 | 1.01 | 2.00 |
| 129         | Columbia River                     | Upper Columbia                  | Entiat River              | Mad River                        | L              | 560.74                                   | 0.35                                     | 617.24                                    | 0.38             | 1542.57 | 0.96 | 1.69 |
| 140         | Columbia River                     | Upper Columbia                  | Wenatchee River           | Chiwawa River                    | L              | 799.71                                   | 0.50                                     | 1327.53                                   | 0.82             | 529.63  | 0.33 | 1.65 |
| 62          | Coastal-Puget Sound                | Puget Sound                     | Stillaguamish River       | Canyon Creek                     | L              | 0.00                                     | 0.00                                     | 1777.92                                   | 1.10             | 838.62  | 0.52 | 1.63 |
| 114         | Columbia River                     | Snake River Basin in Washington | Asotin Creek              | NFk Asotin River                 | L              | 1010.58                                  | 0.63                                     | 96.72                                     | 0.06             | 1474.63 | 0.92 | 1.60 |
| 4           | Coastal-Puget Sound                | Olympic Peninsula               | Elwha River               | Little River PLP                 | P              | 1541.12                                  | 0.96                                     | 408.48                                    | 0.25             | 238.32  | 0.15 | 1.36 |
| 139         | Columbia River                     | Upper Columbia                  | Wenatchee River           | Chiwaukum Creek                  | L              | 8.14                                     | 0.01                                     | 1636.92                                   | 1.02             | 473.00  | 0.29 | 1.32 |
| 103         | Columbia River                     | Northeast Washington            | Pend Oreille River        | Harvey Creek PLP                 | P              |  | 0.00                                     | 512.11                                    | 0.32             | 1552.78 | 0.96 | 1.28 |
| 99          | Columbia River                     | Middle Columbia                 | Yakima River              | SFk Tieton River                 | L              | 131.32                                   | 0.08                                     | 1133.52                                   | 0.70             | 683.82  | 0.42 | 1.21 |
| 58          | Coastal-Puget Sound                | Puget Sound                     | Snohomish/Skykomish River | North Fork Skykomish River       | L              | 0.00                                     | 0.00                                     | 1453.76                                   | 0.90             | 424.01  | 0.26 | 1.17 |
| 28          | Coastal-Puget Sound                | Puget Sound                     | Lower Skagit River        | Illabot Creek                    | L              | 802.53                                   | 0.50                                     | 570.53                                    | 0.35             | 361.40  | 0.22 | 1.08 |
| 102         | Columbia River                     | Northeast Washington            | Pend Oreille River        | Cedar Creek PLP                  | P              | 101.41                                   | 0.06                                     | 1125.86                                   | 0.70             | 216.25  | 0.13 | 0.90 |
| 1           | Coastal-Puget Sound                | Olympic Peninsula               | Dungeness River           | Dungeness River                  | L              | 0.00                                     | 0.00                                     | 1309.55                                   | 0.81             | 110.11  | 0.07 | 0.88 |

| ID # | Distinct Population Segment | Management Unit                 | Core Area           | Local Population Name           | LP Type | Roads 10&99 RMZ Buffer Type S |      | Roads 10&99 RMZ Buffer Type F |      | Roads 10&99 RMZ Buffer Type Np |      | Total RMZ |
|------|-----------------------------|---------------------------------|---------------------|---------------------------------|---------|-------------------------------|------|-------------------------------|------|--------------------------------|------|-----------|
| 6    | Coastal-Puget Sound         | Olympic Peninsula               | Hoh River           | South Fork Hoh River            | L       | 1386.22                       | 0.86 | 0.00                          | 0.00 | 0.00                           | 0.00 | 0.86      |
| 95   | Columbia River              | Middle Columbia                 | Yakima River        | Kachess River                   | L       | 158.71                        | 0.10 | 385.89                        | 0.24 | 833.50                         | 0.52 | 0.86      |
| 98   | Columbia River              | Middle Columbia                 | Yakima River        | Rattlesnake Creek               | L       | 609.36                        | 0.38 |                               | 0.00 | 706.03                         | 0.44 | 0.82      |
| 136  | Columbia River              | Upper Columbia                  | Methow River        | Twisp River                     | L       | 1247.49                       | 0.78 |                               | 0.00 |                                | 0.00 | 0.78      |
| 112  | Columbia River              | Northeast Washington            | Pend Oreille River  | Tacoma Creek PLP                | P       |                               | 0.00 |                               | 0.00 | 1143.40                        | 0.71 | 0.71      |
| 65   | Coastal-Puget Sound         | Puget Sound                     | Stillaguamish River | Upper Deer Creek                | L       | 734.73                        | 0.46 | 17.37                         | 0.01 | 355.76                         | 0.22 | 0.69      |
| 134  | Columbia River              | Upper Columbia                  | Methow River        | Gold Creek (3)                  | L       | 447.61                        | 0.28 | 548.64                        | 0.34 |                                | 0.00 | 0.62      |
| 110  | Columbia River              | Northeast Washington            | Pend Oreille River  | Small Creek PLP                 | P       |                               | 0.00 | 697.95                        | 0.43 | 280.65                         | 0.17 | 0.61      |
| 21   | Coastal-Puget Sound         | Puget Sound                     | Lower Skagit River  | Bacon Creek                     | L       | 809.85                        | 0.50 | 0.00                          | 0.00 | 162.88                         | 0.10 | 0.60      |
| 72   | Coastal-Puget Sound         | Puget Sound                     | Upper Skagit River  | Ruby Creek                      | L       | 0.00                          | 0.00 | 879.91                        | 0.55 | 0.00                           | 0.00 | 0.55      |
| 43   | Coastal-Puget Sound         | Puget Sound                     | Nooksack River      | Lower Canyon Creek              | L       | 236.13                        | 0.15 | 201.22                        | 0.13 | 385.57                         | 0.24 | 0.51      |
| 26   | Coastal-Puget Sound         | Puget Sound                     | Lower Skagit River  | Forks of Sauk River             | L       | 0.00                          | 0.00 | 761.57                        | 0.47 | 0.00                           | 0.00 | 0.47      |
| 108  | Columbia River              | Northeast Washington            | Pend Oreille River  | SFk Tacoma Creek PLP            | P       |                               | 0.00 | 744.80                        | 0.46 |                                | 0.00 | 0.46      |
| 107  | Columbia River              | Northeast Washington            | Pend Oreille River  | Ruby Creek PLP (2)              | P       |                               | 0.00 | 547.98                        | 0.34 | 165.81                         | 0.10 | 0.44      |
| 104  | Columbia River              | Northeast Washington            | Pend Oreille River  | Indian Creek PLP (2)            | P       | 54.29                         | 0.03 | 215.06                        | 0.13 | 328.43                         | 0.20 | 0.37      |
| 22   | Coastal-Puget Sound         | Puget Sound                     | Lower Skagit River  | Baker Lake                      | L       | 126.05                        | 0.08 | 420.71                        | 0.26 | 0.00                           | 0.00 | 0.34      |
| 39   | Coastal-Puget Sound         | Puget Sound                     | Lower Skagit River  | Upper South Fork Sauk River     | L       | 0.00                          | 0.00 | 506.43                        | 0.31 | 0.00                           | 0.00 | 0.31      |
| 122  | Columbia River              | Snake River Basin in Washington | Tucannon River      | Tucannon River                  | L       |                               | 0.00 | 327.26                        | 0.20 | 89.55                          | 0.06 | 0.26      |
| 144  | Columbia River              | Upper Columbia                  | Wenatchee River     | Peshastin Creek                 | L       | 397.00                        | 0.25 |                               | 0.00 |                                | 0.00 | 0.25      |
| 49   | Coastal-Puget Sound         | Puget Sound                     | Nooksack River      | Upper North Fork Nooksack River | L       | 101.87                        | 0.06 | 139.22                        | 0.09 | 0.00                           | 0.00 | 0.15      |

| <b>ID #</b> | <b>Distinct Population Segment</b> | <b>Management Unit</b>          | <b>Core Area</b>   | <b>Local Population Name</b> | <b>LP Type</b> | <b>Roads 10&amp;99 RMZ Buffer Type S</b> | <b>Roads 10&amp;99 RMZ Buffer Type F</b> | <b>Roads 10&amp;99 RMZ Buffer Type Np</b> | <b>Total RMZ</b> |      |
|-------------|------------------------------------|---------------------------------|--------------------|------------------------------|----------------|--|--|---|------------------|------|
| 116         | Columbia River Coastal-Puget Sound | Snake River Basin in Washington | Tucannon River     | Cummings Creek               | L              | 0.00                                     | 223.37                                   | 0.14                                      | 0.00             | 0.14 |
| 38          | Columbia River Sound               | Puget Sound                     | Lower Skagit River | Tenas Creek                  | L              | 173.30                                   | 0.11                                     | 0.00                                      | 0.00             | 0.11 |
| 76          | Columbia River                     | Clark Fork                      | Priest Lake        | Granite Creek                | L              |  | 0.00                                     | 0.00                                      | 161.41           | 0.10 |
| 138         | Columbia River Coastal-Puget Sound | Upper Columbia                  | Methow River       | Wolf Creek                   | L              | 154.63                                   | 0.10                                     | 0.00                                      | 0.00             | 0.10 |
| 12          | Columbia River                     | Olympic Peninsula               | Skokomish River    | South Fork Skokomish River   | L              | 0.00                                     | 0.00                                     | 84.41                                     | 0.05             | 0.05 |
| 133         | Columbia River Coastal-Puget Sound | Upper Columbia                  | Methow River       | Goat Creek                   | L              |  | 0.00                                     | 69.21                                     | 0.04             | 0.04 |
| 27          | Columbia River                     | Puget Sound                     | Lower Skagit River | Goodell Creek                | L              | 0.00                                     | 0.00                                     | 29.12                                     | 0.02             | 0.02 |
| 142         | Columbia River Coastal-Puget Sound | Upper Columbia                  | Wenatchee River    | Little Wenatchee River       | L              | 20.25                                    | 0.01                                     | 0.00                                      | 0.00             | 0.01 |
| 2           | Columbia River Coastal-Puget Sound | Olympic Peninsula               | Dungeness River    | Gray Wolf River              | L              | 0.00                                     | 0.00                                     | 0.00                                      | 0.00             | 0.00 |
| 3           | Columbia River Coastal-Puget Sound | Olympic Peninsula               | Elwha River        | Elwha River                  | L              | 0.00                                     | 0.00                                     | 0.00                                      | 0.00             | 0.00 |
| 5           | Columbia River Coastal-Puget Sound | Olympic Peninsula               | Hoh River          | Hoh River                    | L              | 0.00                                     | 0.00                                     | 0.00                                      | 0.00             | 0.00 |
| 7           | Columbia River Coastal-Puget Sound | Olympic Peninsula               | Queets River       | Queets River                 | L              | 0.00                                     | 0.00                                     | 0.00                                      | 0.00             | 0.00 |
| 8           | Columbia River Coastal-Puget Sound | Olympic Peninsula               | Quinalt River      | North Fork Quinalt River     | L              | 0.00                                     | 0.00                                     | 0.00                                      | 0.00             | 0.00 |
| 9           | Columbia River Coastal-Puget Sound | Olympic Peninsula               | Quinalt River      | Upper Quinalt River          | L              | 0.00                                     | 0.00                                     | 0.00                                      | 0.00             | 0.00 |
| 10          | Columbia River Coastal-Puget Sound | Olympic Peninsula               | Skokomish River    | Brown Creek PLP              | P              | 0.00                                     | 0.00                                     | 0.00                                      | 0.00             | 0.00 |
| 11          | Columbia River Coastal-Puget Sound | Olympic Peninsula               | Skokomish River    | North Fork Skokomish River   | L              | 0.00                                     | 0.00                                     | 0.00                                      | 0.00             | 0.00 |
| 13          | Columbia River Coastal-Puget Sound | Puget Sound                     | Chester Morse      | Boulder Creek                | L              | 0.00                                     | 0.00                                     | 0.00                                      | 0.00             | 0.00 |

| <b>ID #</b> | <b>Distinct Population Segment</b> | <b>Management Unit</b> | <b>Core Area</b>   | <b>Local Population Name</b> | <b>LP Type</b> | <b>Roads 10&amp;99 RMZ Buffer Type S</b> | <b>Roads 10&amp;99 RMZ Buffer Type F</b> | <b>Roads 10&amp;99 RMZ Buffer Type Np</b> | <b>Total RMZ</b> |      |      |
|-------------|------------------------------------|------------------------|--------------------|------------------------------|----------------|--|--|---|------------------|------|------|
| 14          | Coastal-Puget Sound                | Puget Sound            | Chester Morse      | Cedar River                  | L              | 0.00                                     | 0.00                                     | 0.00                                      | 0.00             | 0.00 | 0.00 |
| 15          | Coastal-Puget Sound                | Puget Sound            | Chester Morse      | Rack Creek                   | L              | 0.00                                     | 0.00                                     | 0.00                                      | 0.00             | 0.00 | 0.00 |
| 16          | Coastal-Puget Sound                | Puget Sound            | Chester Morse      | Shotgun Creek PLP            | P              | 0.00                                     | 0.00                                     | 0.00                                      | 0.00             | 0.00 | 0.00 |
| 17          | Coastal-Puget Sound                | Puget Sound            | Chilliwack River   | Depot Creek                  | L              | 0.00                                     | 0.00                                     | 0.00                                      | 0.00             | 0.00 | 0.00 |
| 18          | Coastal-Puget Sound                | Puget Sound            | Chilliwack River   | Little Chilliwack River      | L              | 0.00                                     | 0.00                                     | 0.00                                      | 0.00             | 0.00 | 0.00 |
| 19          | Coastal-Puget Sound                | Puget Sound            | Chilliwack River   | Silesia Creek                | L              | 0.00                                     | 0.00                                     | 0.00                                      | 0.00             | 0.00 | 0.00 |
| 20          | Coastal-Puget Sound                | Puget Sound            | Chilliwack River   | Upper Chilliwack River       | L              | 0.00                                     | 0.00                                     | 0.00                                      | 0.00             | 0.00 | 0.00 |
| 23          | Coastal-Puget Sound                | Puget Sound            | Lower Skagit River | Buck Creek                   | L              | 0.00                                     | 0.00                                     | 0.00                                      | 0.00             | 0.00 | 0.00 |
| 24          | Coastal-Puget Sound                | Puget Sound            | Lower Skagit River | Cascade River                | L              | 0.00                                     | 0.00                                     | 0.00                                      | 0.00             | 0.00 | 0.00 |
| 25          | Coastal-Puget Sound                | Puget Sound            | Lower Skagit River | Downey Creek                 | L              | 0.00                                     | 0.00                                     | 0.00                                      | 0.00             | 0.00 | 0.00 |
| 29          | Coastal-Puget Sound                | Puget Sound            | Lower Skagit River | Lime Creek                   | L              | 0.00                                     | 0.00                                     | 0.00                                      | 0.00             | 0.00 | 0.00 |
| 30          | Coastal-Puget Sound                | Puget Sound            | Lower Skagit River | Lower Whitechuck River       | L              | 0.00                                     | 0.00                                     | 0.00                                      | 0.00             | 0.00 | 0.00 |
| 31          | Coastal-Puget Sound                | Puget Sound            | Lower Skagit River | Milk Creek                   | L              | 0.00                                     | 0.00                                     | 0.00                                      | 0.00             | 0.00 | 0.00 |
| 32          | Coastal-Puget Sound                | Puget Sound            | Lower Skagit River | Newhalem Creek               | L              | 0.00                                     | 0.00                                     | 0.00                                      | 0.00             | 0.00 | 0.00 |
| 33          | Coastal-Puget Sound                | Puget Sound            | Lower Skagit River | South Fork Cascade River     | L              | 0.00                                     | 0.00                                     | 0.00                                      | 0.00             | 0.00 | 0.00 |
| 34          | Coastal-Puget Sound                | Puget Sound            | Lower Skagit River | Stetattle Creek              | L              | 0.00                                     | 0.00                                     | 0.00                                      | 0.00             | 0.00 | 0.00 |

| <b>ID #</b> | <b>Distinct Population Segment</b> | <b>Management Unit</b> | <b>Core Area</b>          | <b>Local Population Name</b>     | <b>LP Type</b> | <b>Roads 10&amp;99 RMZ Buffer Type S</b> | <b>Roads 10&amp;99 RMZ Buffer Type F</b> | <b>Roads 10&amp;99 RMZ Buffer Type Np</b> | <b>Total RMZ</b> |      |      |
|-------------|------------------------------------|------------------------|---------------------------|----------------------------------|----------------|--|--|---|------------------|------|------|
| 35          | Coastal-Puget Sound                | Puget Sound            | Lower Skagit River        | Straight Creek                   | L              | 0.00                                     | 0.00                                     | 0.00                                      | 0.00             | 0.00 | 0.00 |
| 36          | Coastal-Puget Sound                | Puget Sound            | Lower Skagit River        | Sulphur Creek                    | L              | 0.00                                     | 0.00                                     | 0.00                                      | 0.00             | 0.00 | 0.00 |
| 37          | Coastal-Puget Sound                | Puget Sound            | Lower Skagit River        | Sulphur Creek (Lake Shannon) PLP | P              | 0.00                                     | 0.00                                     | 0.00                                      | 0.00             | 0.00 | 0.00 |
| 40          | Coastal-Puget Sound                | Puget Sound            | Lower Skagit River        | Upper Suiattle River             | L              | 0.00                                     | 0.00                                     | 0.00                                      | 0.00             | 0.00 | 0.00 |
| 41          | Coastal-Puget Sound                | Puget Sound            | Lower Skagit River        | Upper Whitechuck River           | L              | 0.00                                     | 0.00                                     | 0.00                                      | 0.00             | 0.00 | 0.00 |
| 50          | Coastal-Puget Sound                | Puget Sound            | Nooksack River            | Upper South Fork Nooksack River  | L              | 0.00                                     | 0.00                                     | 0.00                                      | 0.00             | 0.00 | 0.00 |
| 51          | Coastal-Puget Sound                | Puget Sound            | Nooksack River            | Wanlick Creek                    | L              | 0.00                                     | 0.00                                     | 0.00                                      | 0.00             | 0.00 | 0.00 |
| 59          | Coastal-Puget Sound                | Puget Sound            | Snohomish/Skykomish River | Salmon Creek                     | L              | 0.00                                     | 0.00                                     | 0.00                                      | 0.00             | 0.00 | 0.00 |
| 61          | Coastal-Puget Sound                | Puget Sound            | Snohomish/Skykomish River | Troublesome Creek                | L              | 0.00                                     | 0.00                                     | 0.00                                      | 0.00             | 0.00 | 0.00 |
| 66          | Coastal-Puget Sound                | Puget Sound            | Upper Skagit River        | Big Beaver Creek                 | L              | 0.00                                     | 0.00                                     | 0.00                                      | 0.00             | 0.00 | 0.00 |
| 67          | Coastal-Puget Sound                | Puget Sound            | Upper Skagit River        | Deer Creek PLP                   | P              | 0.00                                     | 0.00                                     | 0.00                                      | 0.00             | 0.00 | 0.00 |
| 68          | Coastal-Puget Sound                | Puget Sound            | Upper Skagit River        | Lightning Creek                  | L              | 0.00                                     | 0.00                                     | 0.00                                      | 0.00             | 0.00 | 0.00 |
| 69          | Coastal-Puget Sound                | Puget Sound            | Upper Skagit River        | Little Beaver Creek              | L              | 0.00                                     | 0.00                                     | 0.00                                      | 0.00             | 0.00 | 0.00 |
| 70          | Coastal-Puget Sound                | Puget Sound            | Upper Skagit River        | Panther Creek                    | L              | 0.00                                     | 0.00                                     | 0.00                                      | 0.00             | 0.00 | 0.00 |
| 71          | Coastal-Puget Sound                | Puget Sound            | Upper Skagit River        | Pierce Creek                     | L              | 0.00                                     | 0.00                                     | 0.00                                      | 0.00             | 0.00 | 0.00 |
| 73          | Coastal-Puget Sound                | Puget Sound            | Upper Skagit River        | Silver Creek                     | L              | 0.00                                     | 0.00                                     | 0.00                                      | 0.00             | 0.00 | 0.00 |

| <b>ID #</b> | <b>Distinct Population Segment</b> | <b>Management Unit</b>          | <b>Core Area</b>   | <b>Local Population Name</b> | <b>LP Type</b> | <b>Roads 10&amp;99 RMZ Buffer Type S</b> | <b>Roads 10&amp;99 RMZ Buffer Type F</b> | <b>Roads 10&amp;99 RMZ Buffer Type Np</b> | <b>Total RMZ</b> |      |      |
|-------------|------------------------------------|---------------------------------|--------------------|------------------------------|----------------|--|--|---|------------------|------|------|
| 74          | Coastal-Puget Sound                | Puget Sound                     | Upper Skagit River | Thunder Creek                | L              | 0.00                                     | 0.00                                     | 0.00                                      | 0.00             | 0.00 | 0.00 |
| 75          | Columbia River                     | Clark Fork                      | Priest Lake        | Gold Creek                   | L              |  | 0.00                                     | 0.00                                      | 0.00             | 0.00 | 0.00 |
| 77          | Columbia River                     | Clark Fork                      | Priest Lake        | Kalispell Creek              | L              |  | 0.00                                     | 0.00                                      | 0.00             | 0.00 | 0.00 |
| 78          | Columbia River                     | Grande Ronde                    | Grande Ronde River | Butte Creek                  | L              |  | 0.00                                     | 0.00                                      | 0.00             | 0.00 | 0.00 |
| 79          | Columbia River                     | Grande Ronde                    | Grande Ronde River | Crooked Creek                | L              |  | 0.00                                     | 0.00                                      | 0.00             | 0.00 | 0.00 |
| 80          | Columbia River                     | Grande Ronde                    | Grande Ronde River | North Fork Wenaha River      | L              |  | 0.00                                     | 0.00                                      | 0.00             | 0.00 | 0.00 |
| 81          | Columbia River                     | Lower Columbia                  | Klickitat River    | West Fork Klickitat River    | L              | 0.00                                     | 0.00                                     | 0.00                                      | 0.00             | 0.00 | 0.00 |
| 84          | Columbia River                     | Lower Columbia                  | Lewis River        | Rush Creek                   | L              | 0.00                                     | 0.00                                     | 0.00                                      | 0.00             | 0.00 | 0.00 |
| 85          | Columbia River                     | Lower Columbia                  | Lewis River        | Upper Lewis River PLP        | P              | 0.00                                     | 0.00                                     | 0.00                                      | 0.00             | 0.00 | 0.00 |
| 87          | Columbia River                     | Middle Columbia                 | Yakima River       | American River               | L              |  | 0.00                                     | 0.00                                      | 0.00             | 0.00 | 0.00 |
| 88          | Columbia River                     | Middle Columbia                 | Yakima River       | Box Cayon Creek              | L              |  | 0.00                                     | 0.00                                      | 0.00             | 0.00 | 0.00 |
| 89          | Columbia River                     | Middle Columbia                 | Yakima River       | Bumping River                | L              |  | 0.00                                     | 0.00                                      | 0.00             | 0.00 | 0.00 |
| 91          | Columbia River                     | Middle Columbia                 | Yakima River       | Crow Creek                   | L              |  | 0.00                                     | 0.00                                      | 0.00             | 0.00 | 0.00 |
| 92          | Columbia River                     | Middle Columbia                 | Yakima River       | Deep Creek                   | L              |  | 0.00                                     | 0.00                                      | 0.00             | 0.00 | 0.00 |
| 94          | Columbia River                     | Middle Columbia                 | Yakima River       | Indian Creek                 | L              |  | 0.00                                     | 0.00                                      | 0.00             | 0.00 | 0.00 |
| 97          | Columbia River                     | Middle Columbia                 | Yakima River       | NFk Tieton River             | L              |  | 0.00                                     | 0.00                                      | 0.00             | 0.00 | 0.00 |
| 100         | Columbia River                     | Middle Columbia                 | Yakima River       | Taneum Creek PLP             | P              |  | 0.00                                     | 0.00                                      | 0.00             | 0.00 | 0.00 |
| 109         | Columbia River                     | Northeast Washington            | Pend Oreille River | Slate Creek PLP              | P              |  | 0.00                                     | 0.00                                      | 0.00             | 0.00 | 0.00 |
| 111         | Columbia River                     | Northeast Washington            | Pend Oreille River | Sullivan Creek PLP           | P              |  | 0.00                                     | 0.00                                      | 0.00             | 0.00 | 0.00 |
| 113         | Columbia River                     | Snake River Basin in Washington | Asotin Creek       | Charley Creek                | L              |  | 0.00                                     | 0.00                                      | 0.00             | 0.00 | 0.00 |
| 117         | Columbia River                     | Snake River Basin in Washington | Tucannon River     | Hixon Creek                  | P              |  | 0.00                                     | 0.00                                      | 0.00             | 0.00 | 0.00 |
| 118         | Columbia River                     | Snake River Basin in Washington | Tucannon River     | Little Tucannon River        | P              |  | 0.00                                     | 0.00                                      | 0.00             | 0.00 | 0.00 |
| 119         | Columbia River                     | Snake River Basin in Washington | Tucannon River     | Little Turkey Creek          | L              |  | 0.00                                     | 0.00                                      | 0.00             | 0.00 | 0.00 |



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|---------------|------------------------------------|---------------------------------|-------------------|------------------------------|----------------|--|--|---|------------------|-----------|-------|--------|
| 120           | Columbia River                     | Snake River Basin in Washington | Tucannon River    | Meadow Creek                 | L              | 0.00                                     | 0.00                                     | 0.00                                      | 0.00             |           |       |        |
| 121           | Columbia River                     | Snake River Basin in Washington | Tucannon River    | Panjab Creek                 | L              | 0.00                                     | 0.00                                     | 0.00                                      | 0.00             |           |       |        |
| 123           | Columbia River                     | Snake River Basin in Washington | Tucannon River    | Turkey Creek                 | L              | 0.00                                     | 0.00                                     | 0.00                                      | 0.00             |           |       |        |
| 124           | Columbia River                     | Umatilla-Walla Walla            | Walla Walla River | Mill Creek (2)               | L              | 0.00                                     | 0.00                                     | 0.00                                      | 0.00             |           |       |        |
| 130           | Columbia River                     | Upper Columbia                  | Methow River      | Blue Buck Creek              | L              | 0.00                                     | 0.00                                     | 0.00                                      | 0.00             |           |       |        |
| 131           | Columbia River                     | Upper Columbia                  | Methow River      | Chewack River                | L              | 0.00                                     | 0.00                                     | 0.00                                      | 0.00             |           |       |        |
| 132           | Columbia River                     | Upper Columbia                  | Methow River      | Early Winters Creek          | L              | 0.00                                     | 0.00                                     | 0.00                                      | 0.00             |           |       |        |
| 135           | Columbia River                     | Upper Columbia                  | Methow River      | Lost River                   | L              | 0.00                                     | 0.00                                     | 0.00                                      | 0.00             |           |       |        |
| 137           | Columbia River                     | Upper Columbia                  | Methow River      | WFk Methow River             | L              | 0.00                                     | 0.00                                     | 0.00                                      | 0.00             |           |       |        |
| <b>Totals</b> |                                    |                                 |                   |                              |                | 115249.67                                | 71.61                                    | 151725.70                                 | 94.28            | 146722.93 | 91.17 | 257.07 |