

## Aerial Survey Observations for Eastern Washington in 2000-2001

| *** Eastern Washington ***   |   | 2000         |              | 2001           |              |
|------------------------------|---|--------------|--------------|----------------|--------------|
| Agent                        | Land Ownership                            | acres        | trees killed | acres          | trees killed |
| <b>Area not flown</b>        |   |              |              |                |              |
|                              | Bureau of Land Management                 |              |              | 928            | 0            |
|                              | Forest Service                            |              |              | 94,746         | 0            |
|                              | National Park Service                     |              |              | 9,253          | 0            |
|                              | Private                                   |              |              | 14,264         | 0            |
|                              | State of Washington                       |              |              | 4,143          | 0            |
|                              | Wildernesses, Nat'l Monuments             |              |              | 78,251         | 0            |
|                              | <b>Area not flown -- subtotal:</b>        |              |              | <b>201,585</b> | <b>0</b>     |
| <b>Balsam woolly adelgid</b> |   |              |              |                |              |
|                              | Bureau of Land Management                 |              |              | 1              | 0            |
|                              | Forest Service                            | 457          | 0            | 7,218          | 0            |
|                              | Indian Reservation                        |              |              | 2,166          | 0            |
|                              | National Park Service                     | 29           | 0            | 196            | 0            |
|                              | Private                                   | 423          | 40           | 664            | 0            |
|                              | State of Washington                       |              |              | 320            | 0            |
|                              | Wildernesses, Nat'l Monuments             | 360          | 0            | 9,438          | 25           |
|                              | <b>Balsam woolly adelgid -- subtotal:</b> | <b>1,269</b> | <b>40</b>    | <b>20,003</b>  | <b>25</b>    |
| <b>Bear</b>                  |   |              |              |                |              |
|                              | Forest Service                            | 564          | 1,226        | 511            | 1,506        |
|                              | Indian Reservation                        | 6            | 5            |                |              |
|                              | Private                                   | 156          | 216          | 77             | 97           |
|                              | State of Washington                       | 4            | 30           | 2              | 10           |
|                              | Wildernesses, Nat'l Monuments             | 116          | 200          |                |              |
|                              | <b>Bear -- subtotal:</b>                  | <b>846</b>   | <b>1,677</b> | <b>590</b>     | <b>1,613</b> |
| <b>Black pineleaf scale</b>  |   |              |              |                |              |
|                              | Bureau of Land Management                 | 5            | 0            |                |              |
|                              | Private                                   | 41           | 0            |                |              |
|                              | State of Washington                       | 16           | 0            |                |              |
|                              | <b>Black pineleaf scale -- subtotal:</b>  | <b>62</b>    | <b>0</b>     |                |              |
| <b>Blister rust</b>          |   |              |              |                |              |
|                              | Forest Service                            | 754          | 2            | 1,734          | 0            |
|                              | Indian Reservation                        | 34           | 0            | 574            | 0            |
|                              | National Park Service                     | 6            | 10           |                |              |
|                              | Private                                   | 133          | 9            | 1,068          | 0            |
|                              | State of Washington                       | 117          | 0            | 785            | 0            |
|                              | Wildernesses, Nat'l Monuments             | 1,602        | 0            | 3,327          | 30           |
|                              | <b>Blister rust -- subtotal:</b>          | <b>2,646</b> | <b>21</b>    | <b>7,488</b>   | <b>30</b>    |
| <b>Douglas-fir beetle</b>    |   |              |              |                |              |
|                              | Bureau of Land Management                 | 453          | 1,719        | 934            | 3,453        |
|                              | Forest Service                            | 35,998       | 98,295       | 54,591         | 198,834      |
|                              | Indian Reservation                        | 12,153       | 20,631       | 28,844         | 72,727       |

\*\*\* Eastern Washington \*\*\*

| Agent                              | Land Ownership                                  | 2000          |                | 2001           |                |
|------------------------------------|---|---------------|----------------|----------------|----------------|
|                                    |   | acres         | trees killed   | acres          | trees killed   |
|                                    | National Park Service                           | 67            | 171            | 335            | 871            |
|                                    | not listed                                      |               |                | 186            | 93             |
|                                    | Other Federal                                   | 807           | 2,353          | 2,356          | 7,894          |
|                                    | Private   | 6,294         | 16,647         | 11,700         | 33,056         |
|                                    | State of Washington                             | 3,440         | 7,442          | 7,025          | 19,061         |
|                                    | Wildernesses, Nat'l Monuments                   | 2,983         | 5,185          | 5,118          | 13,309         |
|                                    | <b>Douglas-fir beetle -- subtotal:</b>          | <b>62,195</b> | <b>152,443</b> | <b>111,089</b> | <b>349,298</b> |
| <b>Douglas-fir beetle engraver</b> |   |               |                |                |                |
|                                    | Forest Service                                  | 10            | 15             | 431            | 1,211          |
|                                    | Indian Reservation                              |               |                | 72             | 361            |
|                                    | Private   | 4             | 5              | 12             | 30             |
|                                    | <b>Douglas-fir beetle engraver -- subtotal:</b> | <b>14</b>     | <b>20</b>      | <b>515</b>     | <b>1,602</b>   |
| <b>Douglas-fir tussock moth</b>    |   |               |                |                |                |
|                                    | Bureau of Land Management                       |               |                | 7              | 0              |
|                                    | Forest Service                                  | 26,768        | 0              | 6,917          | 0              |
|                                    | Indian Reservation                              | 157           | 0              |                |                |
|                                    | Private   | 285           | 0              | 309            | 0              |
|                                    | State of Washington                             | 27            | 0              | 283            | 0              |
|                                    | Wildernesses, Nat'l Monuments                   | 18,340        | 0              | 16,161         | 0              |
|                                    | <b>Douglas-fir tussock moth -- subtotal:</b>    | <b>45,577</b> | <b>0</b>       | <b>23,677</b>  | <b>0</b>       |
| <b>Dying hemlock</b>               |   |               |                |                |                |
|                                    | National Park Service                           |               |                | 5              | 0              |
|                                    | <b>Dying hemlock -- subtotal:</b>               |               |                | <b>5</b>       | <b>0</b>       |
| <b>Fir engraver</b>                |   |               |                |                |                |
|                                    | Bureau of Land Management                       | 4             | 9              | 89             | 87             |
|                                    | Forest Service                                  | 716           | 890            | 2,369          | 4,048          |
|                                    | Indian Reservation                              | 666           | 744            | 3,910          | 14,897         |
|                                    | National Park Service                           |               |                | 7              | 27             |
|                                    | Other Federal                                   | 9             | 17             |                |                |
|                                    | Private   | 684           | 576            | 845            | 1,012          |
|                                    | State of Washington                             | 422           | 315            | 120            | 261            |
|                                    | Wildernesses, Nat'l Monuments                   | 382           | 344            | 1,473          | 1,339          |
|                                    | <b>Fir engraver -- subtotal:</b>                | <b>2,883</b>  | <b>2,895</b>   | <b>8,813</b>   | <b>21,671</b>  |
| <b>Fire</b>                        |   |               |                |                |                |
|                                    | Forest Service                                  | 241           | 0              | 57             | 0              |
|                                    | Indian Reservation                              |               |                | 32             | 0              |
|                                    | Other Federal                                   |               |                | 142            | 0              |
|                                    | Private   | 3             | 0              | 17             | 0              |
|                                    | Wildernesses, Nat'l Monuments                   |               |                | 151            | 0              |
|                                    | <b>Fire -- subtotal:</b>                        | <b>244</b>    | <b>0</b>       | <b>399</b>     | <b>0</b>       |
| <b>Hardwood decline</b>            |   |               |                |                |                |
|                                    | Forest Service                                  | 9             | 0              |                |                |
|                                    | National Park Service                           |               |                | 2              | 0              |

| Agent                                       | Land Ownership   | 2000          |                | 2001          |                |
|---|--|---------------|----------------|---------------|----------------|
|   |  | acres         | trees killed   | acres         | trees killed   |
|   | Private  | 102           | 0              | 76            | 0              |
|   | State of Washington                                      | 85            | 0              | 16            | 0              |
|   | <b>Hardwood decline -- subtotal:</b>                     | <b>196</b>    | <b>0</b>       | <b>94</b>     | <b>0</b>       |
| <b>Larch casebearer/hypodermella</b>        |  |               |                |               |                |
|   | Bureau of Land Management                                | 5             | 0              |               |                |
|   | Forest Service   | 838           | 0              |               |                |
|   | Indian Reservation                                       | 22            | 0              |               |                |
|   | Private  | 353           | 0              |               |                |
|   | State of Washington                                      | 75            | 0              |               |                |
|   | Wildernesses, Nat'l Monuments                            | 99            | 0              |               |                |
|   | <b>Larch casebearer/hypodermella -- subtotal:</b>        | <b>1,392</b>  | <b>0</b>       |               |                |
| <b>Larch looper</b>                         |  |               |                |               |                |
|   | Private  | 26            | 0              | 215           | 0              |
|   | <b>Larch looper -- subtotal:</b>                         | <b>26</b>     | <b>0</b>       | <b>215</b>    | <b>0</b>       |
| <b>Larch needle cast</b>                    |  |               |                |               |                |
|   | Forest Service   | 2,681         | 0              | 529           | 0              |
|   | Indian Reservation                                       |               |                | 162           | 0              |
|   | Private  | 1,123         | 0              | 953           | 0              |
|   | State of Washington                                      | 1,478         | 0              | 52            | 0              |
|   | Wildernesses, Nat'l Monuments                            | 609           | 0              | 143           | 0              |
|   | <b>Larch needle cast -- subtotal:</b>                    | <b>5,891</b>  | <b>0</b>       | <b>1,839</b>  | <b>0</b>       |
| <b>Lodgepole pine needle cast</b>           |  |               |                |               |                |
|   | Forest Service   | 310           | 0              | 1,925         | 0              |
|   | Indian Reservation                                       |               |                | 886           | 0              |
|   | Private  | 1             | 0              | 28            | 0              |
|   | Wildernesses, Nat'l Monuments                            |               |                | 70            | 0              |
|   | <b>Lodgepole pine needle cast -- subtotal:</b>           | <b>311</b>    | <b>0</b>       | <b>2,909</b>  | <b>0</b>       |
| <b>Mountain pine beetle, lodgepole pine</b> |  |               |                |               |                |
|   | Bureau of Land Management                                |               |                | 54            | 107            |
|   | Forest Service   | 32,041        | 139,489        | 56,712        | 626,949        |
|   | Indian Reservation                                       | 566           | 2,522          | 697           | 9,719          |
|   | National Park Service                                    | 35            | 117            |               |                |
|   | Other Federal  | 38            | 10             |               |                |
|   | Private  | 378           | 892            | 922           | 3,953          |
|   | State of Washington                                      | 3,079         | 14,498         | 2,777         | 18,386         |
|   | Wildernesses, Nat'l Monuments                            | 18,800        | 59,404         | 27,265        | 130,104        |
|   | <b>Mountain pine beetle, lodgepole pine -- subtotal:</b> | <b>54,937</b> | <b>216,932</b> | <b>88,427</b> | <b>789,218</b> |
| <b>Mountain pine beetle, ponderosa pine</b> |  |               |                |               |                |
|   | Bureau of Land Management                                | 12            | 24             | 7             | 10             |
|   | Forest Service   | 1,377         | 2,106          | 6,330         | 11,409         |
|   | Indian Reservation                                       | 282           | 711            | 22            | 110            |
|   | National Park Service                                    |               |                | 7             | 10             |
|   | Other Federal  | 5             | 12             |               |                |

| <b>*** Eastern Washington ***</b>           |  | <b>2000</b>  |                     | <b>2001</b>   |                     |
|---|--|--------------|---------------------|---------------|---------------------|
| <b>Agent</b>                                | <b>Land Ownership</b>                                    | <b>acres</b> | <b>trees killed</b> | <b>acres</b>  | <b>trees killed</b> |
|   | Private  | 242          | 430                 | 762           | 1,410               |
|   | State of Washington                                      | 140          | 230                 | 1,121         | 993                 |
|   | Wildernesses, Nat'l Monuments                            | 31           | 99                  | 17            | 85                  |
|   | <b>Mountain pine beetle, ponderosa pine -- subtotal:</b> | <b>2,089</b> | <b>3,612</b>        | <b>8,266</b>  | <b>14,027</b>       |
| <b>Mountain pine beetle, w. white pine</b>  |  |              |                     |               |                     |
|   | Forest Service   | 569          | 826                 | 13,823        | 18,810              |
|   | Indian Reservation                                       | 6            | 5                   | 12            | 35                  |
|   | Private  | 13           | 13                  | 623           | 257                 |
|   | State of Washington                                      |              |                     | 142           | 61                  |
|   | Wildernesses, Nat'l Monuments                            | 105          | 75                  | 316           | 400                 |
|   | <b>Mountain pine beetle, w. white pine -- subtotal:</b>  | <b>693</b>   | <b>919</b>          | <b>14,916</b> | <b>19,563</b>       |
| <b>Mountain pine beetle, whitebark pine</b> |  |              |                     |               |                     |
|   | Bureau of Land Management                                | 7            | 5                   |               |                     |
|   | Forest Service   | 552          | 665                 | 6,643         | 34,360              |
|   | Indian Reservation                                       |              |                     | 526           | 548                 |
|   | National Park Service                                    | 29           | 30                  | 177           | 238                 |
|   | Private  | 570          | 445                 | 1,327         | 3,913               |
|   | State of Washington                                      | 766          | 406                 | 1,232         | 3,239               |
|   | Wildernesses, Nat'l Monuments                            | 612          | 1,111               | 4,989         | 12,065              |
|   | <b>Mountain pine beetle, whitebark pine -- subtotal:</b> | <b>2,536</b> | <b>2,662</b>        | <b>14,894</b> | <b>54,363</b>       |
| <b>Needle rust in Poplar</b>                |  |              |                     |               |                     |
|   | Bureau of Land Management                                | 7            | 0                   |               |                     |
|   | Forest Service   | 67           | 0                   | 48            | 0                   |
|   | Private  | 4            | 0                   | 14            | 0                   |
|   | <b>Needle rust in Poplar -- subtotal:</b>                | <b>78</b>    | <b>0</b>            | <b>62</b>     | <b>0</b>            |
| <b>Needleminers on ponderosa pine</b>       |  |              |                     |               |                     |
|   | Forest Service   | 431          | 0                   |               |                     |
|   | Private  | 403          | 0                   |               |                     |
|   | State of Washington                                      | 37           | 0                   |               |                     |
|   | <b>Needleminers on ponderosa pine -- subtotal:</b>       | <b>871</b>   | <b>0</b>            |               |                     |
| <b>Oregon pine ips</b>                      |  |              |                     |               |                     |
|   | Bureau of Land Management                                |              |                     | 1             | 14                  |
|   | Forest Service   | 234          | 234                 | 553           | 1,695               |
|   | Indian Reservation                                       |              |                     | 6             | 20                  |
|   | Private  |              |                     | 402           | 990                 |
|   | State of Washington                                      |              |                     | 24            | 107                 |
|   | <b>Oregon pine ips -- subtotal:</b>                      | <b>234</b>   | <b>234</b>          | <b>986</b>    | <b>2,826</b>        |
| <b>Phantom hemlock looper</b>               |  |              |                     |               |                     |
|   | Forest Service   |              |                     | 37            | 0                   |
|   | Private  |              |                     | 23            | 0                   |
|   | Wildernesses, Nat'l Monuments                            |              |                     | 23            | 0                   |
|   | <b>Phantom hemlock looper -- subtotal:</b>               |              |                     | <b>83</b>     | <b>0</b>            |

**Agent**                      **Land Ownership**                      **acres**   **trees killed**                      **acres**   **trees killed**

**Pine needle scale**

|                                       |    |   |  |           |          |
|---------------------------------------|----|---|--|-----------|----------|
| Forest Service                        |    |   |  | 29        | 0        |
| Indian Reservation                    |    |   |  | 134       | 0        |
| Other Federal                         |    |   |  | 40        | 0        |
| Private                               | 72 | 0 |  | 285       | 0        |
| State of Washington                   | 17 | 0 |  | 307       | 0        |
| <b>Pine needle scale -- subtotal:</b> |    |   |  | <b>89</b> | <b>0</b> |

**Root disease**

|                                  |    |   |  |           |          |
|----------------------------------|----|---|--|-----------|----------|
| Forest Service                   |    |   |  | 16        | 0        |
| Indian Reservation               |    |   |  | 2         | 0        |
| Private                          | 16 | 0 |  | 39        | 0        |
| State of Washington              |    |   |  | 69        | 0        |
| <b>Root disease -- subtotal:</b> |    |   |  | <b>16</b> | <b>0</b> |

**Satin moth**

|                                |    |   |  |           |          |
|--------------------------------|----|---|--|-----------|----------|
| Forest Service                 | 14 | 0 |  | 2         | 0        |
| Indian Reservation             |    |   |  | 20        | 0        |
| Private                        | 49 | 0 |  | 168       | 0        |
| State of Washington            | 3  | 0 |  | 4         | 0        |
| <b>Satin moth -- subtotal:</b> |    |   |  | <b>66</b> | <b>0</b> |

**Sawflies, true firs**

|   |  |  |  |           |          |
|---|--|--|--|-----------|----------|
| Private                                 |  |  |  | 41        | 0        |
| <b>Sawflies, true firs -- subtotal:</b> |  |  |  | <b>41</b> | <b>0</b> |

**Sawfly, ponderosa pine**

|  |  |  |  |            |          |
|--|--|--|--|------------|----------|
| Indian Reservation                         |  |  |  | 61         | 0        |
| Private                                    |  |  |  | 79         | 0        |
| <b>Sawfly, ponderosa pine -- subtotal:</b> |  |  |  | <b>140</b> | <b>0</b> |

**Silver fir beetle**

|                                       |   |    |  |           |           |
|---------------------------------------|---|----|--|-----------|-----------|
| Forest Service                        | 6 | 10 |  |           |           |
| Wildernesses, Nat'l Monuments         | 5 | 5  |  |           |           |
| <b>Silver fir beetle -- subtotal:</b> |   |    |  | <b>11</b> | <b>15</b> |

**Slide**

|                           |  |  |  |          |           |
|---------------------------|--|--|--|----------|-----------|
| Forest Service            |  |  |  | 5        | 30        |
| <b>Slide -- subtotal:</b> |  |  |  | <b>5</b> | <b>30</b> |

**Spruce aphid**

|                                  |  |  |  |           |          |
|----------------------------------|--|--|--|-----------|----------|
| Private                          |  |  |  | 47        | 0        |
| <b>Spruce aphid -- subtotal:</b> |  |  |  | <b>47</b> | <b>0</b> |

**Spruce beetle**

|                       |     |       |  |       |        |
|-----------------------|-----|-------|--|-------|--------|
| Forest Service        | 955 | 1,546 |  | 8,090 | 35,563 |
| Indian Reservation    | 8   | 5     |  | 3,099 | 10,543 |
| National Park Service | 37  | 15    |  | 282   | 2,158  |

| <b>*** Eastern Washington ***</b> |  | <b>2000</b>  |                     | <b>2001</b>   |                     |
|-----------------------------------|--|--------------|---------------------|---------------|---------------------|
| <b>Agent</b>                      | <b>Land Ownership</b>                          | <b>acres</b> | <b>trees killed</b> | <b>acres</b>  | <b>trees killed</b> |
|                                   | Other Federal                                  | 2            | 15                  |               |                     |
|                                   | Private  | 34           | 97                  | 166           | 497                 |
|                                   | State of Washington                            | 21           | 41                  | 10            | 24                  |
|                                   | Wildernesses, Nat'l Monuments                  | 473          | 908                 | 9,195         | 44,529              |
|                                   | <b>Spruce beetle -- subtotal:</b>              | <b>1,530</b> | <b>2,627</b>        | <b>20,842</b> | <b>93,314</b>       |
| <b>Tent caterpillar</b>           |  |              |                     |               |                     |
|                                   | Private  | 6            | 0                   |               |                     |
|                                   | <b>Tent caterpillar -- subtotal:</b>           | <b>6</b>     | <b>0</b>            |               |                     |
| <b>Unknown defoliator</b>         |  |              |                     |               |                     |
|                                   | Bureau of Land Management                      |              |                     | 2             | 0                   |
|                                   | Forest Service                                 | 96           | 0                   | 1,014         | 0                   |
|                                   | Indian Reservation                             | 31           | 0                   |               |                     |
|                                   | Private  | 113          | 0                   | 519           | 0                   |
|                                   | State of Washington                            | 48           | 0                   | 83            | 0                   |
|                                   | Wildernesses, Nat'l Monuments                  |              |                     | 104           | 0                   |
|                                   | <b>Unknown defoliator -- subtotal:</b>         | <b>288</b>   | <b>0</b>            | <b>1,722</b>  | <b>0</b>            |
| <b>Unknown mortality agent</b>    |  |              |                     |               |                     |
|                                   | Private  |              |                     | 50            | 20                  |
|                                   | <b>Unknown mortality agent -- subtotal:</b>    |              |                     | <b>50</b>     | <b>20</b>           |
| <b>Water damage</b>               |  |              |                     |               |                     |
|                                   | Forest Service                                 | 45           | 10                  | 2             | 10                  |
|                                   | Private  | 11           | 45                  | 10            | 50                  |
|                                   | State of Washington                            | 3            | 30                  |               |                     |
|                                   | Wildernesses, Nat'l Monuments                  | 11           | 0                   |               |                     |
|                                   | <b>Water damage -- subtotal:</b>               | <b>70</b>    | <b>85</b>           | <b>12</b>     | <b>60</b>           |
| <b>Western balsam bark beetle</b> |  |              |                     |               |                     |
|                                   | Bureau of Land Management                      |              |                     | 3             | 17                  |
|                                   | Forest Service                                 | 1,059        | 1,603               | 6,178         | 11,600              |
|                                   | Indian Reservation                             | 253          | 318                 | 3,293         | 7,101               |
|                                   | National Park Service                          |              |                     | 133           | 192                 |
|                                   | Private  | 295          | 398                 | 1,315         | 1,861               |
|                                   | State of Washington                            | 82           | 110                 | 780           | 873                 |
|                                   | Wildernesses, Nat'l Monuments                  | 788          | 1,060               | 6,647         | 12,613              |
|                                   | <b>Western balsam bark beetle -- subtotal:</b> | <b>2,477</b> | <b>3,489</b>        | <b>18,349</b> | <b>34,257</b>       |
| <b>Western hemlock looper</b>     |  |              |                     |               |                     |
|                                   | Forest Service                                 |              |                     | 37            | 0                   |
|                                   | Private  |              |                     | 23            | 0                   |
|                                   | Wildernesses, Nat'l Monuments                  |              |                     | 23            | 0                   |
|                                   | <b>Western hemlock looper -- subtotal:</b>     |              |                     | <b>83</b>     | <b>0</b>            |
| <b>Western oak looper</b>         |  |              |                     |               |                     |
|                                   | Private  |              |                     | 25            | 0                   |

| <b>*** Eastern Washington ***</b>       |  | <b>2000</b>    |                     | <b>2001</b>    |                     |
|---|--|----------------|---------------------|----------------|---------------------|
| <b>Agent</b>                            | <b>Land Ownership</b>                                | <b>acres</b>   | <b>trees killed</b> | <b>acres</b>   | <b>trees killed</b> |
|   | State of Washington                                  |                |                     | 4              | 0                   |
|   | <b>Western oak looper -- subtotal:</b>               |                |                     | <b>29</b>      | <b>0</b>            |
| <b>Western pine beetle</b>              |  |                |                     |                |                     |
|   | Bureau of Land Management                            | 23             | 22                  | 4              | 26                  |
|   | Forest Service                                       | 412            | 421                 | 2,564          | 3,668               |
|   | Indian Reservation                                   | 610            | 750                 | 1,539          | 1,795               |
|   | not listed   |                |                     | 186            | 186                 |
|   | Other Federal  | 37             | 65                  | 14             | 27                  |
|   | Private  | 950            | 1,641               | 1,818          | 1,791               |
|   | State of Washington                                  | 247            | 178                 | 2,409          | 2,180               |
|   | Wildernesses, Nat'l Monuments                        | 12             | 10                  |                |                     |
|   | <b>Western pine beetle -- subtotal:</b>              | <b>2,291</b>   | <b>3,087</b>        | <b>8,534</b>   | <b>9,673</b>        |
| <b>Western pine beetle, small trees</b> |  |                |                     |                |                     |
|   | Bureau of Land Management                            | 2              | 2                   | 8              | 40                  |
|   | Forest Service                                       | 640            | 1,114               | 426            | 321                 |
|   | Indian Reservation                                   | 348            | 705                 | 4,263          | 6,032               |
|   | Other Federal  | 2              | 5                   | 55             | 135                 |
|   | Private  | 1,022          | 3,427               | 1,654          | 3,059               |
|   | State of Washington                                  | 217            | 472                 | 337            | 753                 |
|   | <b>Western pine beetle, small trees -- subtotal:</b> | <b>2,231</b>   | <b>5,725</b>        | <b>6,743</b>   | <b>10,340</b>       |
| <b>Western spruce budworm</b>           |  |                |                     |                |                     |
|   | Bureau of Land Management                            | 191            | 0                   | 147            | 0                   |
|   | Forest Service                                       | 66,628         | 0                   | 56,436         | 0                   |
|   | Indian Reservation                                   | 212,203        | 0                   | 115,645        | 0                   |
|   | National Park Service                                | 48             | 0                   | 2              | 0                   |
|   | Private  | 28,013         | 0                   | 13,159         | 0                   |
|   | State of Washington                                  | 18,448         | 0                   | 15,866         | 0                   |
|   | Wildernesses, Nat'l Monuments                        | 46,766         | 0                   | 51,583         | 0                   |
|   | <b>Western spruce budworm -- subtotal:</b>           | <b>372,297</b> | <b>0</b>            | <b>252,838</b> | <b>0</b>            |
| <b>Grand Total</b>                      | <b>*** Eastern Washington ***</b>                    | <b>566,362</b> | <b>396,483</b>      | <b>817,405</b> | <b>1,401,930</b>    |

**Note: Eastern Washington includes data from these counties:**

Asotin, Chelan, Columbia, Douglas, Ferry, Garfield, Kittitas, Klickitat, Lincoln, Okanogan, Pend Oreille, Spokane, Stevens, Walla Walla, Whitman, Yakima

**Western Washington includes data from these counties:**

Clallam, Clark, Cowlitz, Grays Harbor, Island, Jefferson, King, Kitsap, Lewis, Mason, Pacific, Pierce, San Juan, Skagit, Skamania, Snohomish, Thurston, Wahkiakum, Whatcom