

## Aerial Survey Observations for Oregon in 2000-2001

<b>*** All Oregon ***</b>		<b>2000</b>		<b>2001</b>	
<b>Land Ownership</b>	<b>Agent</b>	<b>acres</b>	<b>trees killed</b>	<b>acres</b>	<b>trees killed</b>
<b>Bureau of Land Management</b>					
	Area not flown	8,398	0	58,577	0
	Bear	3,504	2,344	3,052	2,049
	Blister rust			229	0
	Bynum's blight	25	0	92	0
	Cytospora canker	130	0	1,204	0
	Douglas-fir beetle	2,110	1,448	1,390	648
	Douglas-fir tussock moth	3,572	0	1	0
	Fir engraver	89	64	367	205
	Fire	860	0	89	0
	Flatheaded fir borer	11	6	49	25
	Larch casebearer/hypodermella			28	0
	Larch needle cast			159	0
	Mountain pine beetle, Jeffrey pine	12	10		
	Mountain pine beetle, lodgepole pine	18	12	93	80
	Mountain pine beetle, ponderosa pine	124	63	787	928
	Mountain pine beetle, sugar pine	559	75	737	122
	Mountain pine beetle, w. white pine	27	9	92	41
	Oregon pine ips			179	139
	Port Orford cedar root disease	87	64	123	89
	Root disease	19	15	34	0
	Slide	25	61	7	0
	Spruce aphid			1	0
	Unknown defoliator			124	0
	Unknown mortality agent			14	60
	Water damage			13	17
	Western balsam bark beetle			43	23
	Western pine beetle	136	77	324	156
	Western pine beetle, small trees	32	20	232	209
	<b>Bureau of Land Management -- subtotal:</b>	<b>19,738</b>	<b>4,268</b>	<b>68,040</b>	<b>4,791</b>
<b>Forest Service</b>					
	Balsam woolly adelgid	2,337	0	11,382	0
	Bear	4,308	4,595	5,841	3,656
	Blister rust	34	0	1,364	0
	Cytospora canker	351	0	1,982	5
	Douglas-fir beetle	45,059	42,119	18,914	27,679
	Douglas-fir tussock moth	131,310	0	16,766	0
	Fir engraver	2,358	953	6,057	10,217
	Fire	6,628	0	108	0
	Flatheaded fir borer			9	6
	Hardwood decline	439	0		
	Larch casebearer/hypodermella	4,982	0	1,088	0
	Larch needle cast	810	0	555	0
	Lodgepole pine needle cast	8,804	0	213	0
	Maple discoloration			246	0
	Modoc budworm	278	0		
	Mountain pine beetle, knobcone pine			10	5
	Mountain pine beetle, lodgepole pine	24,215	56,434	32,850	206,981
	Mountain pine beetle, ponderosa pine	3,614	2,386	18,657	26,377
	Mountain pine beetle, sugar pine	720	171	955	91
	Mountain pine beetle, w. white pine	38	20	623	172

\*\*\* All Oregon \*\*\*

Land Ownership	Agent	2000		2001	
		acres	trees killed	acres	trees killed
	Mountain pine beetle, whitebark pine	94	51	319	188
	Needleminers on ponderosa pine	298	0	96	0
	Oregon pine ips	7	13	80	46
	Pine needle sheathminer	77	0	146	0
	Port Orford cedar root disease	480	239	257	182
	Root disease	17	0		
	Satin moth	42	0	215	0
	Sawflies, true firs			1,803	0
	Slide	74	41	29	0
	Spruce aphid			36	0
	Spruce beetle	881	546	347	336
	Unknown defoliator	1,186	0	399	0
	Unknown mortality agent			9	5
	Water damage			8	7
	Western balsam bark beetle	629	266	3,692	2,852
	Western pine beetle	256	157	1,238	593
	Western pine beetle, small trees	343	326	426	450
	Western spruce budworm	867	0	228	0
	Wind	46	0	29	0
	Winter damage			20	0
	<b>Forest Service -- subtotal:</b>	<b>241,582</b>	<b>108,317</b>	<b>126,997</b>	<b>279,848</b>
<b>Indian Reservation</b>					
	Balsam woolly adelgid			15	0
	Douglas-fir beetle	41	60	83	120
	Fir engraver	12	10	11	5
	Fire	926	0	1,033	0
	Larch casebearer/hypodermella			3,055	0
	Larch needle cast	2,426	0	437	0
	Mountain pine beetle, lodgepole pine	2,288	6,192	1,345	3,945
	Mountain pine beetle, ponderosa pine			1,113	815
	<b>Indian Reservation -- subtotal:</b>	<b>5,693</b>	<b>6,262</b>	<b>7,092</b>	<b>4,885</b>
<b>National Park Service</b>					
	Bear	35	10		
	Douglas-fir beetle	30	15	57	15
	Fir engraver			30	20
	Mountain pine beetle, lodgepole pine	25	10	55	30
	Mountain pine beetle, ponderosa pine	16	9		
	Mountain pine beetle, sugar pine	30	4		
	<b>National Park Service -- subtotal:</b>	<b>136</b>	<b>48</b>	<b>142</b>	<b>65</b>
<b>Other Federal</b>					
	Area not flown	5,251	0	5,251	0
	Bear	84	161		
	Douglas-fir beetle	74	52	14	14
	Fir engraver	32	13	7	15
	Fire	57	0		
	Mountain pine beetle, sugar pine			3	2
	Western pine beetle	10	5		
	<b>Other Federal -- subtotal:</b>	<b>5,508</b>	<b>231</b>	<b>5,275</b>	<b>31</b>
<b>Private</b>					
	Area not flown	1,625,313	0	2,123,259	0

\*\*\* All Oregon \*\*\*

Land Ownership	Agent	2000		2001	
		acres	trees killed	acres	trees killed
Balsam woolly adelgid		379	0	1,024	0
Bear		16,733	10,613	18,533	9,216
Black pineleaf scale		108	0		
Blister rust				70	0
Cytospora canker				29	0
Douglas-fir beetle		3,102	2,340	1,895	1,520
Douglas-fir tussock moth		4,479	0	600	0
Fir engraver		192	116	1,349	627
Fire		8,405	0	7	0
Flatheaded fir borer		29	14	88	43
Hardwood decline		218	0	5,203	0
Larch casebearer/hypodermella		20	0	35	0
Larch needle cast				2,164	0
Lodgepole pine needle cast		359	0		
Modoc budworm		187	0		
Mountain pine beetle, lodgepole pine		8,630	8,352	2,014	3,666
Mountain pine beetle, ponderosa pine		777	575	6,990	6,284
Mountain pine beetle, sugar pine		259	32	187	33
Mountain pine beetle, whitebark pine		7	5	27	6
Needleminers on ponderosa pine		48	0	390	0
Oregon pine ips		6	8	462	251
Pine needle sheathminer		41	0		
Port Orford cedar root disease		4,615	4,779	5,839	4,890
Root disease		70	21	28	0
Satin moth		17	0	9	0
Sawflies, true firs				29	0
Slide		52	0	20	0
Spruce aphid				2,850	0
Tent caterpillar				871	0
Unknown defoliator		181	0	709	0
Unknown mortality agent				104	88
Water damage				237	169
Western balsam bark beetle		1	2	53	27
Western pine beetle		232	123	456	281
Western pine beetle, small trees		1,334	5,741	618	774
Western spruce budworm		11	0	17	0
	<b>Private -- subtotal:</b>	<b>1,675,805</b>	<b>32,721</b>	<b>2,176,166</b>	<b>27,875</b>

**State of Oregon**

Area not flown		6,212	0	5,381	0
Bear		5,280	2,231	3,255	1,527
Douglas-fir beetle		49	49	310	230
Fire		41	0		
Modoc budworm		12	0		
Mountain pine beetle, lodgepole pine				73	18
Mountain pine beetle, ponderosa pine		17	12		
Mountain pine beetle, sugar pine				12	1
Port Orford cedar root disease		1	1	64	58
Slide		38	0	15	0
Spruce aphid				14	0
Tent caterpillar				563	0
Western pine beetle		14	5	6	4
	<b>State of Oregon -- subtotal:</b>	<b>11,664</b>	<b>2,298</b>	<b>9,693</b>	<b>1,838</b>

<b>*** All Oregon ***</b>		<b>2000</b>		<b>2001</b>	
<b>Land Ownership</b>	<b>Agent</b>	<b>acres</b>	<b>trees killed</b>	<b>acres</b>	<b>trees killed</b>
<b>Wildernesses, Nat'l Monuments</b>					
	Balsam woolly adelgid	1,737	253	4,279	0
	Bear	32	28	135	37
	Blister rust	434	0	5,402	0
	Cytospora canker	191	0		
	Douglas-fir beetle	6,891	5,556	4,307	3,163
	Douglas-fir tussock moth	34,836	0	11,782	0
	Fir engraver	399	405	2,192	1,520
	Fire	985	0		
	Flatheaded fir borer			9	5
	Larch casebearer/hypodermella	551	0	286	0
	Larch needle cast	1,412	0		
	Lodgepole pine needle cast	191	0	128	0
	Maple discoloration			212	0
	Mountain pine beetle, knobcone pine			21	10
	Mountain pine beetle, lodgepole pine	785	935	4,993	33,743
	Mountain pine beetle, ponderosa pine	206	152	511	342
	Mountain pine beetle, sugar pine	108	15	61	10
	Mountain pine beetle, w. white pine	61	20	210	117
	Mountain pine beetle, whitebark pine	961	472	3,561	3,028
	Needleminers on ponderosa pine	676	0		
	Oregon pine ips			18	10
	Port Orford cedar root disease	68	28		
	Spruce aphid			38	0
	Spruce beetle	529	347	247	230
	Unknown defoliator			148	0
	Western balsam bark beetle	78	66	4,705	5,611
	Western pine beetle	87	75		
	Western pine beetle, small trees	27	15		
	Wind	23	0		
	<b>Wildernesses, Nat'l Monuments -- subtotal:</b>	<b>51,268</b>	<b>8,367</b>	<b>43,245</b>	<b>47,826</b>
<b>Grand Total</b>	<b>*** All Oregon ***</b>	<b>2,011,394</b>	<b>162,512</b>	<b>2,436,650</b>	<b>367,159</b>