

Aerial Survey Observations for Western Washington in 2000-2001

*** Western Washington ***		2000		2001	
Agent	Land Ownership	acres	trees killed	acres	trees killed
Area not flown					
	Forest Service			168,706	0
	Indian Reservation	22,845	0	23,790	0
	National Park Service			192,362	0
	not listed			20,381	0
	Other Federal	69,955	0	65,777	0
	Private	430,451	0	492,629	0
	State of Washington	8,689	0	18,336	0
	Wildernesses, Nat'l Monuments			36,450	0
	Area not flown -- subtotal:	531,940	0	1,018,431	0
Balsam woolly adelgid					
	Forest Service	140	0	2,367	285
	National Park Service	431	5	4,965	95
	Private			27	0
	Wildernesses, Nat'l Monuments	17	0	6,762	47
	Balsam woolly adelgid -- subtotal:	588	5	14,121	427
Bear					
	Forest Service	4,823	9,678	9,485	15,677
	Indian Reservation	1,429	1,560	4,130	5,092
	National Park Service	58	57	186	519
	Other Federal	134	306	34	213
	Private	11,992	17,628	16,101	30,521
	State of Washington	2,935	4,746	7,286	16,411
	Wildernesses, Nat'l Monuments	75	134	309	503
	Bear -- subtotal:	21,446	34,109	37,531	68,936
Blister rust					
	Forest Service	8	0		
	National Park Service	25	0	192	15
	State of Washington			2	0
	Wildernesses, Nat'l Monuments	6	0		
	Blister rust -- subtotal:	39	0	194	15
Budmoth on Douglas-fir					
	Private	34	0		
	Budmoth on Douglas-fir -- subtotal:	34	0		
Douglas-fir beetle					
	Forest Service	2,199	3,250	1,984	3,443
	Indian Reservation	24	61	44	75
	National Park Service	164	325	3,170	7,260
	Other Federal	176	128	33	111
	Private	4,390	4,353	1,770	4,756
	State of Washington	1,206	1,107	818	1,801

*** Western Washington ***		2000		2001	
Agent	Land Ownership	acres	trees killed	acres	trees killed
	Wildernesses, Nat'l Monuments	254	455	1,170	1,549
	Douglas-fir beetle -- subtotal:	8,413	9,679	8,989	18,995
Douglas-fir beetle engraver					
	Private	8	20	6	20
	Douglas-fir beetle engraver -- subtotal:	8	20	6	20
Douglas-fir tussock moth					
	National Park Service			15	0
	Douglas-fir tussock moth -- subtotal:			15	0
Dying hemlock					
	Forest Service			2,953	0
	National Park Service			2,379	0
	Private			114	0
	State of Washington			930	0
	Wildernesses, Nat'l Monuments			1,263	0
	Dying hemlock -- subtotal:			7,639	0
Fir engraver					
	Forest Service	75	90	259	185
	Indian Reservation			34	5
	National Park Service	136	280	399	422
	Private			18	65
	State of Washington			72	25
	Wildernesses, Nat'l Monuments	39	55	638	453
	Fir engraver -- subtotal:	250	425	1,420	1,155
Hardwood decline					
	Forest Service			185	0
	Indian Reservation			4	0
	not listed			17	0
	Other Federal			30	0
	Private	482	0	1,510	0
	State of Washington	4	0	449	0
	Hardwood decline -- subtotal:	486	0	2,195	0
Larch needle cast					
	Forest Service			108	0
	National Park Service			139	0
	Wildernesses, Nat'l Monuments			215	0
	Larch needle cast -- subtotal:			462	0
Lodgepole pine needle cast					
	Forest Service			19	0
	Indian Reservation			11	0
	National Park Service			1,475	0
	Private	12	0	185	0

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Agent	Land Ownership	acres	trees killed	acres	trees killed
	State of Washington	186	0	261	0
	Wildernesses, Nat'l Monuments			34	0
	Lodgepole pine needle cast -- subtotal:	198	0	1,985	0
Maple discoloration					
	Forest Service	3	0		
	Private	96	0		
	Maple discoloration -- subtotal:	99	0		
Mountain pine beetle, lodgepole pine					
	Forest Service	459	2,782	2,009	10,596
	National Park Service	195	562	2,388	14,095
	Private	15	15	14	55
	State of Washington			4	20
	Wildernesses, Nat'l Monuments	1,578	2,694	3,251	8,860
	Mountain pine beetle, lodgepole pine -- subtotal:	2,247	6,053	7,666	33,626
Mountain pine beetle, ponderosa pine					
	Forest Service	4	5	17	20
	Mountain pine beetle, ponderosa pine -- subtotal:	4	5	17	20
Mountain pine beetle, w. white pine					
	Forest Service	11	10	32	15
	National Park Service	244	300	487	246
	Private	41	10		
	Wildernesses, Nat'l Monuments			2	20
	Mountain pine beetle, w. white pine -- subtotal:	296	320	521	281
Mountain pine beetle, whitebark pine					
	Forest Service			7	50
	National Park Service	7	15	83	417
	Wildernesses, Nat'l Monuments	2	5		
	Mountain pine beetle, whitebark pine -- subtotal:	9	20	90	467
Pacific Madrone decline					
	not listed			17	0
	Other Federal	10	0	65	0
	Private	538	0	1,594	0
	State of Washington	41	0	606	0
	Pacific Madrone decline -- subtotal:	589	0	2,282	0
Phantom hemlock looper					
	Forest Service			382	0
	Private			987	0
	State of Washington			708	0
	Wildernesses, Nat'l Monuments			164	0
	Phantom hemlock looper -- subtotal:			2,241	0

Agent	Land Ownership	2000		2001	
		acres	trees killed	acres	trees killed
Port Orford cedar root disease					
	Private	6	10	22	5
Port Orford cedar root disease -- subtotal:		6	10	22	5
Root disease					
	Forest Service	107	0	57	0
	National Park Service	11	0	4	0
	Other Federal			5	0
	Private	584	90	881	0
	State of Washington	35	0	185	0
	Wildernesses, Nat'l Monuments	7	0	2	0
Root disease -- subtotal:		744	90	1,134	0
Sawflies, true firs					
	Forest Service			2	0
	National Park Service			24	0
	Private			32	0
Sawflies, true firs -- subtotal:				58	0
Sawfly, hemlock					
	National Park Service	55	0		
Sawfly, hemlock -- subtotal:		55	0		
Silver fir beetle					
	Forest Service	76	60	8	20
	Private	33	50	4	10
	Wildernesses, Nat'l Monuments	114	75	6	20
Silver fir beetle -- subtotal:		223	185	18	50
Slide					
	National Park Service	15	0	44	1,030
	Wildernesses, Nat'l Monuments	22	5		
Slide -- subtotal:		37	5	44	1,030
Spruce aphid					
	Private	11	5	2,515	0
	State of Washington			2	0
Spruce aphid -- subtotal:		11	5	2,517	0
Spruce beetle					
	Forest Service	21	35	441	1,198
	National Park Service	218	193	1,276	1,897
	Private	24	35	7	20
	State of Washington	19	20		
	Wildernesses, Nat'l Monuments	28	34	1,706	5,954
Spruce beetle -- subtotal:		310	317	3,430	9,069
Swiss needlecast					

*** Western Washington ***

Agent	Land Ownership	2000		2001	
		acres	trees killed	acres	trees killed
	Indian Reservation			1,392	0
	Private			778	0
	State of Washington			5	0
	Swiss needlecast -- subtotal:			2,175	0
Tent caterpillar					
	Private	18	0		
	Tent caterpillar -- subtotal:	18	0		
Unknown defoliator					
	Forest Service	2,162	0	1,427	0
	National Park Service	577	0	2	0
	Private	676	0	181	0
	State of Washington	7	0	146	0
	Wildernesses, Nat'l Monuments			456	0
	Unknown defoliator -- subtotal:	3,422	0	2,212	0
Unknown mortality agent					
	Forest Service	49	100		
	Private	30	50		
	Wildernesses, Nat'l Monuments	88	50		
	Unknown mortality agent -- subtotal:	167	200		
Water damage					
	Forest Service	24	20	81	183
	Indian Reservation			24	20
	National Park Service	74	42	15	20
	Other Federal			2	4
	Private	314	487	254	882
	State of Washington	27	80	22	132
	Wildernesses, Nat'l Monuments	34	0		
	Water damage -- subtotal:	473	629	398	1,241
Western balsam bark beetle					
	Forest Service	111	100	2,084	7,445
	National Park Service	202	235	853	1,230
	Private			2	10
	State of Washington			6	20
	Wildernesses, Nat'l Monuments	510	640	3,018	3,729
	Western balsam bark beetle -- subtotal:	823	975	5,963	12,434
Western hemlock looper					
	Forest Service	321	0	10,397	0
	National Park Service			1,274	0
	Other Federal			22	0
	Private	2	0	2,037	0
	State of Washington			1,453	0
	Wildernesses, Nat'l Monuments	173	0	2,086	0

*** Western Washington ***		2000		2001	
Agent	Land Ownership	acres	trees killed	acres	trees killed
Western hemlock looper -- subtotal:		496	0	17,269	0
Western pine beetle					
	Private			4	10
Western pine beetle -- subtotal:				4	10
Western spruce budworm					
	Forest Service	5,712	0	7,446	0
	Indian Reservation			3	0
	National Park Service	39	0	5,892	0
	Wildernesses, Nat'l Monuments	5,641	0	5,690	0
Western spruce budworm -- subtotal:		11,392	0	19,031	0
Wind					
	Forest Service	6	0		
	Private	115	155	2	0
	State of Washington	29	55		
Wind -- subtotal:		150	210	2	0
Winter damage					
	Wildernesses, Nat'l Monuments			2	0
Winter damage -- subtotal:				2	0
Grand Total	*** Western Washington ***	584,973	53,262	1,160,084	147,781

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