

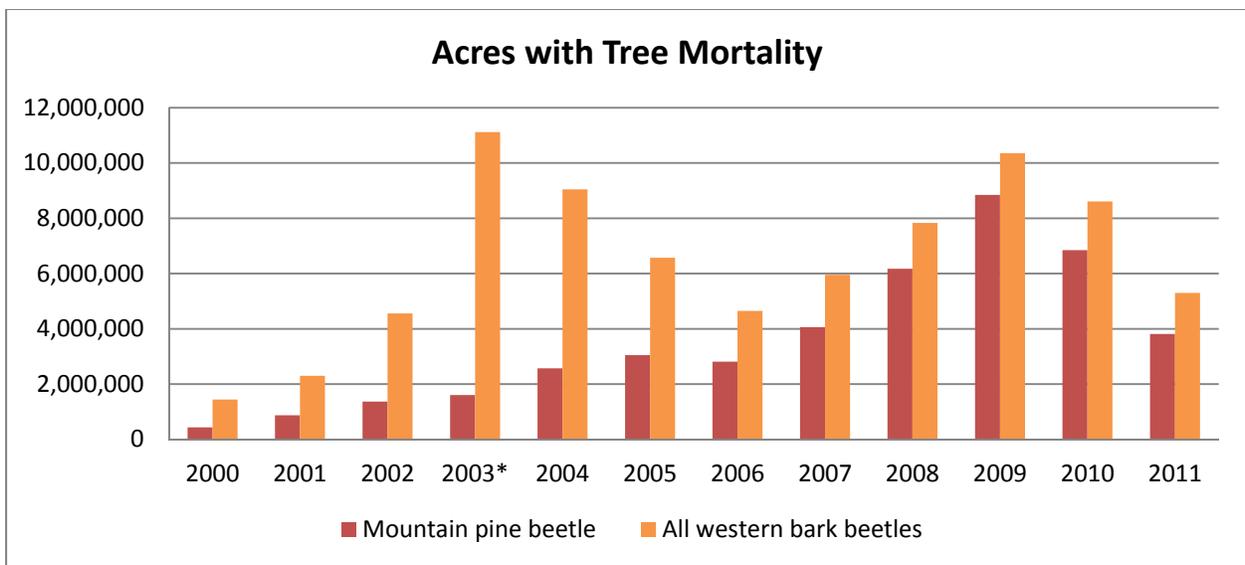
AREAS WITH TREE MORTALITY FROM BARK BEETLES

SUMMARY FOR 2000 – 2011
WESTERN US

12 YEAR FOOTPRINT FOR MOUNTAIN PINE BEETLE = 22M ACRES

12 YEAR FOOTPRINT FOR ALL WESTERN BARK BEETLES = 44.8M ACRES

Many areas of pest activity overlap from year to year. The footprint area is the cumulative area covered by pest activity for the 12 year time period with no double counting of acres between years.



*Spike in all western bark beetle acres in 2003 due to increased survey of pinyon pine mortality in the Southwest.

BARK BEETLE SPECIES INCLUDED:

<Phloeosinus spp.>	pinyon ips
California fivespined ips	red turpentine beetle
Douglas-fir beetle	roundheaded pine beetle
Douglas-fir engraver	silver fir beetle
Douglas-fir pole beetle	southern pine beetle
eastern larch beetle	spruce beetle
fir engraver	spruce ips
flatheaded borer	tip beetles
ips	true fir bark beetles
Jeffrey pine beetle	western balsam bark beetle
lodgepole pine beetle	western cedar bark beetle
mountain pine beetle	western pine beetle
northern spruce engraver	<Pityophthorus spp.>
pine engraver	

Complexes, insect/disease and other multi damage phenomena that contain a bark beetle component like five-needle pine decline, subalpine fir mortality, true fir pest complex and pinyon pine mortality are also included.

ACRES SUMMARY BY YEAR 2000 – 2011

MOUNTAIN PINE BEETLE

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Arizona		49.2	169.0	122.2	5.0	0.2		112.0	2.5			3.5
California	5,671.7	71,317.5	16,082.5	25,726.3	51,022.6	40,647.8	60,586.1	57,534.7	52,407.0	91,335.4	90,259.3	89,899.4
Colorado	139,293.4	151,202.2	209,484.1	235,905.5	436,725.1	500,246.2	667,980.9	987,152.8	1,155,727.0	1,047,275.1	879,091.3	754,447.3
Idaho	117,948.9	170,167.6	335,976.7	343,354.6	549,236.4	511,788.7	298,395.7	391,022.9	1,007,981.6	1,923,187.3	1,940,900.7	783,190.1
Montana	41,084.9	112,256.0	246,936.6	285,735.3	449,760.7	748,689.5	794,614.7	733,011.0	1,766,693.4	3,492,872.5	2,058,199.0	971,315.1
Nebraska								0.9			4.8	301.6
Nevada	1,003.0	1,642.1	3,071.0	2,335.3	3,889.0	2,717.7	3,877.2	8,728.6	25,620.6	40,183.0	19,650.1	16,569.3
New Mexico	815.8	2,287.7	3,768.4			5.4						
Oregon	42,904.5	68,908.3	167,794.7	173,154.3	218,928.8	256,014.7	350,853.3	500,389.8	497,971.7	394,132.0	418,006.6	236,819.5
South Dakota	13,498.4	102,608.6	102,766.9	189,684.2	57,551.9	19,256.0	39,947.5	25,681.8	25,115.4	22,370.7	44,161.9	66,197.2
Utah	2,154.2	17,652.9	26,861.4	53,645.8	144,475.3	111,973.7	83,193.1	273,529.6	274,872.9	227,081.3	225,137.8	67,623.2
Washington	62,242.4	118,714.6	150,203.9	204,755.1	277,223.9	471,923.0	189,872.3	220,674.7	262,636.0	404,534.8	237,584.8	108,476.3
Wyoming	9,380.8	55,124.9	101,634.7	90,276.4	383,869.8	385,027.9	320,531.6	862,283.9	1,106,628.4	1,200,981.3	933,040.3	717,689.2
Grand Total	435,998.0	871,931.6	1,364,749.9	1,604,695.0	2,572,688.5	3,048,290.8	2,809,852.4	4,060,122.7	6,175,656.5	8,843,953.4	6,846,036.4	3,812,531.6

ALL WESTERN BARK BEETLES

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Arizona	16,142.8	88,030.9	517,234.1	1,694,721.3	138,495.3	38,786.4	30,415.7	21,518.1	10,227.5	1,856.7	21,051.5	5,494.6
California	55,107.2	78,277.8	911,992.6	2,945,935.4	1,707,844.1	851,783.1	309,378.0	197,488.7	170,749.7	365,270.8	684,773.8	508,582.6
Colorado	363,637.0	427,404.2	669,190.8	1,835,937.1	1,448,247.8	1,190,514.7	1,148,289.9	1,471,290.7	1,575,233.4	1,367,386.9	1,370,100.3	1,212,156.5
Idaho	313,366.2	395,505.5	587,711.8	650,058.9	1,087,627.9	682,814.5	366,049.2	438,758.8	1,291,542.6	2,083,746.3	2,049,320.9	887,508.7
Montana	104,156.0	224,295.8	395,444.3	439,910.3	668,739.9	1,080,989.7	922,673.6	836,801.0	1,831,658.3	3,565,608.8	2,092,383.6	992,224.5
Nebraska				10,289.7	12,045.3	1,515.4	3,232.8	777.1	7,212.9	161.8	91.7	378.6
Nevada	2,402.9	9,761.1	73,845.7	440,635.6	805,943.0	53,671.6	24,488.5	14,444.6	31,957.4	128,641.8	28,537.7	21,056.3
New Mexico	46,681.5	71,888.4	177,117.2	910,185.5	293,208.2	168,159.7	180,012.6	123,763.7	99,741.5	36,563.3	20,931.9	166,677.2
Oregon	107,629.1	117,965.9	338,710.1	550,534.2	670,402.6	467,382.0	453,221.1	592,893.6	613,701.4	447,566.1	536,897.2	301,362.9
South Dakota	13,543.1	139,942.9	117,470.4	238,034.5	101,320.9	23,763.5	41,158.2	27,346.1	26,398.4	23,202.6	44,620.9	66,224.1
Utah	57,894.0	140,077.4	105,374.4	363,709.4	565,072.2	325,286.1	122,677.9	434,592.8	358,332.0	271,024.7	279,104.5	98,116.5
Washington	150,252.0	288,870.9	330,048.9	631,268.0	720,263.4	849,949.9	418,910.3	540,596.1	493,222.0	664,726.9	361,757.2	180,654.2
Wyoming	89,064.2	210,482.4	272,404.2	290,504.4	668,458.0	745,013.1	494,198.1	1,070,478.2	1,189,514.2	1,257,828.3	1,015,172.5	800,369.2
Grand Total	1,440,732.5	2,296,678.0	4,555,223.3	11,117,008.8	9,044,877.1	6,573,339.9	4,645,322.9	5,954,537.4	7,828,693.5	10,352,477.7	8,606,473.0	5,296,250.7

Note: Numbers are for each year's "current" damage and are not cumulative from year to year. Numbers should not be added across years because there may be significant overlap from year to year. Numbers are from the National Insect & Disease Survey database.

FOOTPRINT AREA WITH TREE MORTALITY 2000 – 2011

