

Volume Estimate Requested for Select Unsuitable Harvest Codes
Codes From: 4C_map_unsuitability_FP_2020_codes_labelled.pdf
Acres From: map_suitability_codesall_2020.pdf

Code	Name	Acres	Request	Forest Type										
				NC	Nonstocked	Non forest	TAA	TBO	TDF	TOH	TPB	TPP	TRJ	
701	Old-growth other than landscape areas (site level)	2,723	X	0	75	0	0	0	0	0	0	0	2,559	0
702	Old-growth landscape areas	5,216	X	0	0	0	101	129	0	120	0	0	4,642	0
710	Restocking within 5 years cannot be assured	1,504	X	0	0	0	0	43	0	0	0	0	1,461	0
720	Irreversible resource damage likely with current logging technology	1,807	X	0	0	0	0	0	0	0	0	0	1,527	186
721	Topography prevents harvesting by tractor or by cable	50,995	X	312	4	0	6	8	0	0	17	0	49,741	0
722	Irreversible resource damage likely due to unstable soils	7,060	X	0	18	0	74	0	0	0	8	0	6,962	0
723	Previously Suitable - topography prevents harvest	297	X	0	0	0	0	0	0	0	0	0	297	0
740	Adequate response information is lacking (i.e. sites with low productivity)	40,778	X	0	24	0	0	0	0	0	0	0	40,388	367
800	Critical game habitat	22	X	0	0	0	0	0	0	0	0	0	22	0
801	Old-growth other than landscape areas (site level)	17,491	X	67	124	0	100	22	0	45	3	0	16,004	0
802	Old-growth landscape areas	19,510	X	21	0	0	45	150	0	40	0	0	17,568	0
803	Botanical areas	6,998		0	0	0	207	287	0	164	0	0	6,065	0
804	Riparian areas	273	X	0	0	0	0	0	0	0	0	0	170	0
805	Incompatible with multiple use - critical wildlife habitat	415		0	0	0	0	0	0	0	0	0	415	0
810	Experiment Forest, Range or Watershed	4,804		0	0	0	59	0	0	0	29	0	4,716	0
811	Research Natural Area (RNA), not suitable lands	1,795	X	0	0	0	38	0	0	0	0	0	1,586	0
820	Minimum level allocation - uneconomical	9,989	X	0	0	0	0	0	0	0	0	0	9,989	0
821	Steep slopes	8,398	X	0	85	0	15	0	0	31	0	0	8,072	0
822	Timber type currently has low product value / lack of market (Aspen)	45,090	X	243	1,421	0	35,497	93	0	1,584	107	0	5,944	0
823	Road construction problems prevent access development	4,047	X	0	0	0	62	0	0	21	0	0	3,822	0
824	Isolated patch of forest land	10,030	X	0	588	38	0	3	0	0	0	0	9,384	0
825	Developed recreation site other than ski area	7,401		0	0	0	10	80	0	12	0	0	6,263	15
826	Bur Oak	13,579	X	0	16	0	79	11,207	0	27	9	0	2,238	0
831	Paper Birch	3,609	X	354	3	0	286	11	0	757	1,472	0	728	0
832	Other hard woods	1,123	X	0	38	0	206	12	0	449	24	0	276	0
850	Administrative site	289	X	0	6	4	3	0	0	0	0	0	275	0
860	Seed Collection Area	20		0	0	0	0	0	0	0	0	0	20	0
871	Backcountry recreation	13,821	X	37	2	0	119	280	31	27	0	0	12,068	0
891	Converting pine to aspen	1,619	X	0	0	0	84	81	0	0	0	0	1,454	0
892	Converting pine to meadow	1,601	X	30	32	0	65	8	0	0	0	0	1,466	0
895	Converting conifers to hardwoods other than aspen	192	X	0	0	0	0	0	0	0	0	0	192	0
896	Converting other conifers to meadows other than ponderosa pine	31	X	0	0	0	0	0	0	0	0	0	0	0
900	Incapable of producing industrial wood	13	X	0	0	8	0	0	0	0	0	0	5	0
				282,540	1,065	2,436	50	37,056	12,414	31	3,277	1,668	216,320	567

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Code	Name	Ponderosa Pine Sawtimber (ccf)			
		TWS	Total Acres	For Type Factor	ccf/acre
701	Old-growth other than landscape areas (site level)	89	2,723	26,640	9.8
702	Old-growth landscape areas	225	5,217	49,402	9.5
710	Restocking within 5 years cannot be assured	0	1,504	15,135	10.1
720	Irreversible resource damage likely with current logging technology	95	1,807	16,165	8.9
721	Topography prevents harvesting by tractor or by cable	907	50,995	512,974	10.1
722	Irreversible resource damage likely due to unstable soils	0	7,061	71,598	10.1
723	Previously Suitable - topography prevents harvest	0	297	3,046	10.3
740	Adequate response information is lacking (i.e . sites with low productivity)	0	40,779	414,116	10.2
800	Critical game habitat	0	22	223	10.1
801	Old-growth other than landscape areas (site level)	1,127	17,491	168,733	9.6
802	Old-growth landscape areas	1,688	19,511	186,953	9.6
803	Botanical areas	275	6,999	65,191	9.3
804	Riparian areas	103	273	2,120	7.8
805	Incompatible with multiple use - critical wildlife habitat	0	415	4,256	10.3
810	Experiment Forest, Range or Watershed	0	4,804	48,574	10.1
811	Research Natural Area (RNA), not suitable lands	172	1,795	17,000	9.5
820	Minimum level allocation - uneconomical	0	9,989	102,327	10.2
821	Steep slopes	193	8,398	83,616	10.0
822	Timber type currently has low product value / lack of market (Aspen)	250	45,139	182,376	4.0
823	Road construction problems prevent access development	142	4,047	39,910	9.9
824	Isolated patch of forest land	17	10,030	96,967	9.7
825	Developed recreation site other than ski area	1,022	7,401	68,280	9.2
826	Bur Oak	9	13,585	66,318	4.9
831	Paper Birch	0	3,610	13,193	3.7
832	Other hard woods	119	1,123	4,834	4.3
850	Administrative site	0	289	2,834	9.8
860	Seed Collection Area	0	20	209	10.5
871	Backcountry recreation	1,257	13,822	129,755	9.4
891	Converting pine to aspen	0	1,619	15,477	9.6
892	Converting pine to meadow	0	1,602	15,301	9.6
895	Converting conifers to hardwoods other than aspen	0	192	1,967	10.2
896	Converting other conifers to meadows other than ponderosa pine	31	31	115	3.7
900	Incapable of producing industrial wood	0	13	55	4.2
		7,721	282,603	2,425,661	8.7

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		Comparison of Average Slope by Timber Suitability Class					
Code	Name	Code	% Slope	Code	Timber Suitability Description - Suitable	% Slope	Acres
701	Old-growth other than landscape areas (site level)	701	32.8	509	Majority of Site Infested with MPB-Suitable Lands	18.2	1,411
702	Old-growth landscape areas	702	32.5	510	Roaded upland forest	35.0	29
710	Restocking within 5 years cannot be assured	710	28.2	511	Roaded tractor logging area	15.4	461,751
720	Irreversible resource damage likely with current logging technology	720	31.7	512	Roaded cable logging area	33.5	6,896
721	Topography prevents harvesting by tractor or by cable	721	28.7	514	Soil mass movement - suitable lands, not entered	31.8	74
722	Irreversible resource damage likely due to unstable soils	722	37.5	515	Sensitive plants - suitable lands, not entered	29.3	413
723	Previously Suitable - topography prevents harvest	723	35.4	516	Mixed species - hardwood understory, conifer overstory	15.0	664
740	Adequate response information is lacking (i.e. sites with low productivity)	740	33.8	517	Isolated patch of forest land - suitable lands, not entered	21.5	50
800	Critical game habitat	800	18.0	519	Potential late successional stand	18.2	889
801	Old-growth other than landscape areas (site level)	801	27.7	520	Unroaded upland forest	21.7	72
802	Old-growth landscape areas	802	28.4	521	Unroaded tractor logging area	18.6	42,504
803	Botanical areas	803	34.6	522	Unroaded cable logging area	36.0	6,125
804	Riparian areas	804	22.0	550	Uneven Aged Management	14.7	2,746
805	Incompatible with multiple use - critical wildlife habitat	805		552	Fuel break - suitable lands, opted timber rotation	14.7	573
810	Experiment Forest, Range or Watershed	810	22.6	591	Old burns reduced productivity	17.5	112,794
811	Research Natural Area (RNA), not suitable lands	811	28.3	630	Recreation emphasis (ski area, etc)	11.6	3,754
820	Minimum level allocation - uneconomical	820	37.2	640	Visual emphasis	20.5	8,663
821	Steep slopes	821	40.8	650	Wildlife emphasis	23.9	182,894
822	Timber type currently has low product value / lack of market (Aspen)	822	16.6	660	Water emphasis	23.2	7,850
823	Road construction problems prevent access development	823	26.8	671	Heritage - suitable lands, not entered	14.8	61
824	Isolated patch of forest land	824	24.9				
825	Developed recreation site other than ski area	825	39.2				
826	Bur Oak	826	20.4				
831	Paper Birch	831	22.9				
832	Other hard woods	832	26.1				
850	Administrative site	850	18.6				
860	Seed Collection Area	860	14.0				
871	Backcountry recreation	871	36.7				
891	Converting pine to aspen	891	18.5				
892	Converting pine to meadow	892	16.3				
895	Converting conifers to hardwoods other than aspen	895	12.1				
896	Converting other conifers to meadows other than ponderosa pine	896	5.0				
900	Incapable of producing industrial wood	900	29.7				

Unsuitable acres by timber suitability code and sample date, Black Hills National Forest.

TIMBER SUITABILITY CODE	1950-1959	1960-1969	1970-1979	1980-1989	1990-1999	2000-2009	2010-2019	no data	Totals
701		597	412	323	298	843	250		2,723
702					1,275	2,703	1,238		5,216
710				43	458	978	24		1,504
720						1,498	309		1,807
721			24	930	5,903	32,999	11,140		50,995
722				1,005	1,230	1,315	3,510		7,060
723						297			297
740	812	6,823	4,378	6,506	15,272	5,516	1,471		40,778
800						22			22
801	205		50	630	2,184	8,392	6,029		17,491
802			69	749	5,959	7,938	4,663	132	19,509
803				1	720	4,881	1,396		6,998
804			103	47	78	45			273
805		77		76	202	61			415
810						4,804			4,804
811				46		1,383	367		1,795
820		1,038	812	6,658	22	1,213	245		9,989
821	20		20	92	1,922	4,699	1,589	56	8,397
822			167	1,626	6,464	28,358	8,475		45,090
823				25	844	1,990	1,188		4,047
824	64		0	2,548	1,493	5,373	499	52	10,029
825				184	393	6,025	798		7,401
826				1,097	3,748	7,689	1,045		13,579
831				433	941	1,537	699		3,609
832				18	86	841	179		1,123
850					44	94	151		289
860						4	16		20
871			52	807	80	10,070	2,812		13,821
891					180	1,353	85		1,619
892					72	1,032	497		1,601
895					38	117	37		192
896							31		31
900					4	9			13
Total	1,101	8,535	6,088	23,843	49,912	144,078	48,743	240	282,541
%	0.4%	3.0%	2.2%	8.4%	17.7%	51.0%	17.3%	0.1%	100.0%