

HSC Habitat Inventory Data – compiled 5/12/09

Grossman Forestry Co.

HSC FOREST TYPES 2008-updated through 4/09

Aspen - White Birch	8,758	26%	excludes poorly stocked
N. Hardwoods	2,861	8%	includes oak, R, H
Jack Pine	3,759	11%	
Red & White Pine	4,027	12%	
Spruce-Fir & Swamp Con.	5,748	17%	includes cedar
Grass & Upland Brush	6,037	18%	includes ROW, A1, A2, A4, beach
Marsh & Bog	2,134	6%	includes T
Lowland Hardwoods	50	0%	
Plat	10	0%	
Water	665	2%	
Total	34,049	100%	

Note: Since 1993 429 acres of aspen harvest re-classified as A2 (upland brush) due to excess deer browse.

HSC FOREST TYPES by year.

	1978	1994	1996	1998	2000	2002	2004	2006	2008
Aspen - White Birch	7,964	7,782	7,695	7,608	7,908	7,832	7,850	8,472	8,758
N. Hardwoods	3,131	2,799	3,075	2,855	3,006	3,034	3,116	2,941	2,861
Jack Pine	2,701	3,651	3,654	3,740	3,961	4,051	4,036	3,814	3,759
Red & White Pine	2,355	2,529	2,721	2,751	2,773	2,875	3,609	4,023	4,027
Spruce-Fir & Swamp Con.	5,396	5,189	5,098	5,083	5,225	5,227	5,546	5,733	5,748
Grass & Upland Brush	9,109	8,728	8,643	8,779	7,973	7,759	6,650	6,212	6,037
Marsh & Bog	2,448	2,071	2,051	2,012	2,131	2,167	2,137	2,125	2,134
Lowland Hardwoods	215	199	73	73	58	75	76	43	50
Plat		10	10	10	10	10	10	10	10
Water		659	661	661	669	663	650	673	665
Total	33,319	33,617	33,681	33,572	33,714	33,693	33,680	34,047	34,049

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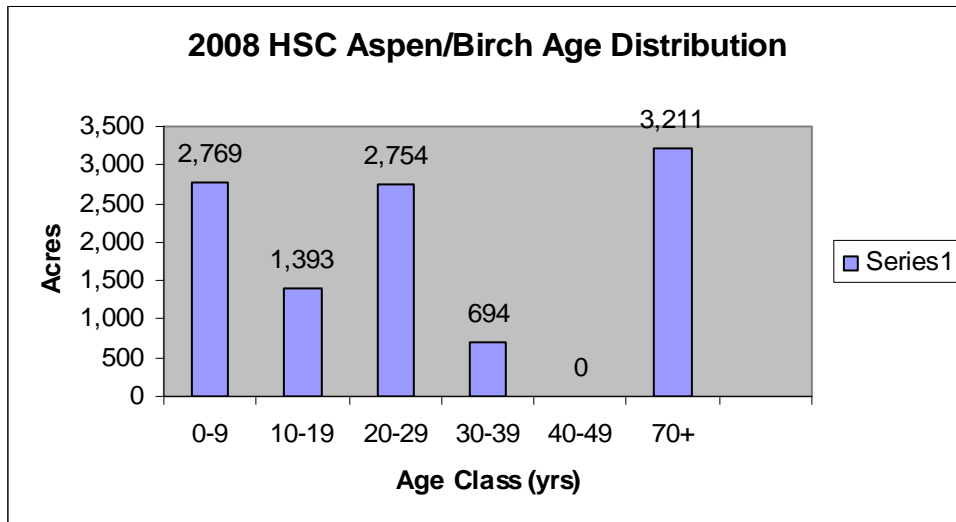
2008 Density distribution of pole size aspen/birch			
A6/B6	A5/B5	A4/B4	Total
1,108	1,197	1,087	3,392
33%	35%	32%	100%
2008 Density distribution of pole size jack pine			
J6	J5	J4	Total
176	751	304	1,231
14%	61%	25%	100%

2008 Size distribution of aspen/birch		
Aspen/birch		
Saplings	7,432	69%
Poles	3,392	31%
	10,823	100%
2008 Size distribution of jack pine		
Jack Pine		
Saplings	2,528	67%
Poles	1,231	33%
	3,759	100%

2008 Forest stocking by age for aspen/birch forest type.

Age Class	Nonstock	poor	medium	good	Total	%
0-9		10	562	2,197	2,769	26%
10-19		0	112	1,281	1,393	13%
20-29		0	411	2,343	2,754	25%
30-39		0	112	582	694	6%
40-49		0	0	0	0	0%
70+		1,087	1,093	1,032	3,211	30%
	0	1,097	2,290	7,435	10,822	100%
	0%	10%	21%	69%	100%	

No age information is available for 10 acres saplings.
Poles without age information are assumed to exceed 70 years old).



Note: Farm purchase in 2005.

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Long-term harvest history:

Period	Avg. Yearly Acres harvested	Avg. Yearly # Cords
1978 - 1982	430	5,000
1983 - 1987	150	2,000
1988 - 1992	352	5,580
1993 - 1997	233	3,855
1998 - 2002	442	8,652
2003 - 2008	665	12,520
1978 - 2008	388	6,469

Carbon Sequestration History:

Year	Credits (mT)	Salable Credits (mT)
2008	118,656	94,339

HSC 17 year Summary and 17 Year Averages 1992-2008							
	Total	MCC	Select	Total	MGT	Gross	Gross
Year	Cords	Acres	Acres	Acres	Exp.	Rev.	Rev./acre
1992	4,913	196	65	261	\$6,331.04	\$33,042.46	\$126.60
1993	3,508	215	62	277	\$4,933.83	\$29,953.67	\$108.14
1994	3,056	109	37	146	\$4,954.08	\$24,899.49	\$170.54
1995	4,714	199	58	257	\$6,876.82	\$68,360.82	\$266.00
1996	3,705	108	95	203	\$6,198.90	\$75,704.00	\$372.93
1997	4,292	197	87	284	\$5,729.85	\$92,414.66	\$325.40
1998	5,181	212	103	315	\$11,174.50	\$136,143.43	\$432.20
1999	9,954	455	44	499	\$12,769.00	\$303,411.45	\$608.04
2000	9,532	419	24	443	\$10,427.45	\$214,643.43	\$484.52
2001	10,541	492	79	571	\$14,978.25	\$212,285.94	\$371.78
2002	8,051	349	33	382	\$11,053.00	\$150,884.81	\$394.99
2003	12,959	814	190	1,004	\$18,000.50	\$353,811.73	\$352.40
2004	12,953	530	76	606	\$19,780.90	\$421,234.60	\$695.11
2005	11,166	340	136	476	\$33,181.38	\$281,458.85	\$591.30
2006	16,979	265	601	866	\$21,899.93	\$484,429.20	\$559.39
2007	11,271	288	256	544	\$15,684.20	\$272,110.03	\$500.20
2008	9,790	390	102	492	\$16,123.31	\$214,007.88	\$434.98
Avg.	8,386	328	120	449	\$12,946.88	\$198,164.50	