

VERMONT FOREST RESOURCE HARVEST SUMMARY - 1997

1997 AT A GLANCE:

Major Report Categories Summarized
for 1997, 1996, 1995, 1994, 1993

Category (units)	1997	1996	1995	1994	1993
Total Harvest (cds)	1,177,184	1,237,700	1,258,399	1,239,412	1,175,871
North	799,863	891,100	877,680	864,761	820,177
South	377,321	346,600	380,719	374,651	355,694
Sawlogs (Mbf)	293,480	293,847	306,237	301,822	257,892
hardwoods	131,595	108,477	123,766	124,182	109,786
softwoods	161,885	185,370	182,471	177,640	148,106
Log Exports (Mbf)	76,055	103,366	110,651	97,256	80,734
hardwoods	19,808	13,286	42,660	41,137	22,126
softwoods	56,247	90,080	67,991	56,119	58,608
Log Imports (Mbf)	79,298	68,835	59,672	61,328	57,122
hardwoods	46,376	46,089	40,367	43,458	42,790
softwoods	32,922	22,746	19,305	17,870	14,332
Pulpwood (cds)	438,478	406,822	439,260	415,985	420,272
hardwoods	224,500	211,557	170,282	137,918	116,036
softwoods	213,978	195,265	268,260	278,067	304,236
Whole Tree Chips (gt)	191,726	301,083	230,766	255,516	333,889
pulp	54,730	56,133	59,828	59,404	102,289
fuel	136,996	244,950	170,938	196,112	231,600
Active Mills (#)	182	160	183	187	170
Consumption (Mbf)	296,723	259,316	255,258	265,894	234,280
hardwoods	158,163	141,280	121,473	126,503	130,450
softwoods	138,560	118,036	133,785	139,391	103,830
Mill Residues (gt)	289,126	275,311	293,224	294,198	281,016
pulp	181,537	169,294	187,663	190,818	197,356
fuel	107,589	106,017	105,561	103,380	83,660

Mbf: Thousand board feet

cds: cords

gt: green tons

VERMONT FOREST RESOURCE HARVEST SUMMARY - 1997

Summation of all products by region

Sawlogs, Veneer Logs, Pulpwood, Boltwood, and Whole Tree Chips

Volumes in Cords

where 2 Cords = 1 MBF

and 2.5 Green Tons = 1 Cord

Species	North	South	Total
Ash	12,174	20,058	32,232
Aspen/Poplar	3,182	3,586	6,768
Basswood	1,800	968	2,768
Beech	4,486	5,966	10,452
White Birch	12,568	9,200	21,768
Yellow Birch	12,166	8,242	20,408
Butternut	2,996	552	3,548
Cherry	4,716	2,620	7,336
Elm	36	26	62
Sugar Maple	66,740	41,136	107,876
Red Maple	10,792	15,428	26,220
Red Oak	7,652	12,312	19,964
White Oak	248	558	806
Other Hardwood	201,902	25,580	227,482
Total Hardwood	341,458	146,232	487,690
Hemlock	47,414	20,939	68,353
White Pine	107,852	102,231	210,083
Red Pine	6,882	3,942	10,824
Spruce/Fir	181,045	18,516	199,561
Tamarack	2,258	76	2,334
Cedar	5,462	536	5,998
Total Softwood	350,913	146,240	497,153
Mill Residues	49,624	66,026	115,650
Whole Tree Chips	57,868	18,823	76,691
Total Harvest	799,863	377,321	1,177,184

Cords

- ✘ Other Hardwood category includes volumes from other listed species.
- ✘ Whole Tree Chips and Residues are not broken down by species in reporting
- ✘ Firewood volume from bolewood is not included.

☞ North: Caledonia, Essex, Franklin, Lamoille, Orange, Orleans, Washington Counties.

☞ South: Addison, Bennington, Chittenden, Rutland, Windham, Windsor Counties.

VERMONT SAWLOG AND VENEER LOG HARVEST - 1997

Volumes in Mbf (thousand board feet)

County

Species	Add	Ben	Cal	Chi	Ess	Fra	Lam	Ora	Orl	Rut	Was	Wih	Wis	Total
Ash	835	1,967	466	127	223	494	1,036	1,397	935	2,333	842	1,887	2,585	15,127
Aspen	239	245	226	10	326	16	57	652	115	1,035	199	115	149	3,384
Basswood	63	46	39	54	20	82	140	477	80	118	62	42	161	1,384
Beech	476	421	250	99	198	230	397	502	282	1,244	384	246	497	5,226
White Birch	444	500	491	54	1,214	105	920	2,340	599	1,626	615	1,349	627	10,884
Yellow Birch	494	741	696	174	1,556	329	858	890	996	1,361	758	566	785	10,204
Butternut	15	11	20	15	2	32	36	1,366	12	75	30	12	148	1,774
Cherry	84	170	357	75	468	136	372	419	339	403	267	263	315	3,668
Elm	1	1	1	1	0	3	2	1	11	7	0	0	3	31
Sugar Maple	4,016	3,298	2,872	1,350	3,323	3,186	5,464	5,522	8,555	5,208	4,448	2,659	4,037	53,938
Red Maple	1,698	1,287	849	265	455	1,006	1,128	569	320	2,600	1,069	1,044	820	13,110
Red Oak	831	1,017	412	289	118	572	399	584	1,158	1,046	583	1,514	1,459	9,982
White Oak	32	65	20	9	3	12	12	28	6	70	43	36	67	403
Other HW	36	134	61	13	38	18	18	1,170	532	211	17	102	130	2,480
Total HW	9,264	9,903	6,760	2,535	7,944	6,221	10,839	15,917	13,940	17,337	9,317	9,835	11,783	131,595
Hemlock	634	903	1,349	1,323	556	2,746	1,618	3,377	1,901	955	856	759	1,237	18,214
White Pine	2,166	2,036	8,652	2,271	3,475	4,312	4,351	7,964	4,794	6,022	6,027	12,789	7,501	72,360
Red Pine	98	135	906	400	63	562	569	580	377	520	384	308	510	5,412
Spruce/Fir	114	823	12,434	29	11,382	920	5,107	10,695	9,262	3,634	3,205	2,280	1,848	61,733
Tamarack	2	0	105	0	501	0	3	1	513	26	6	0	10	1,167
Cedar	2	0	865	0	17	0	0	18	1,812	20	19	0	246	2,999
Total SW	3,016	3,897	24,311	4,023	15,994	8,540	11,648	22,635	18,659	11,177	10,497	16,136	11,352	161,885
Total	12,280	13,800	31,071	6,558	23,938	14,761	22,487	38,552	32,599	28,514	19,814	25,971	23,135	293,480

Mbf

County Labels:

Add : Addison **Ess** : Essex **Orl** : Orleans
Ben : Bennington **Fra** : Franklin/Grand Isle **Rut** : Rutland
Cal : Caledonia **Lam** : Lamoille **Was** : Washington
Chi : Chittenden **Ora** : Orange **Wih** : Windham
Wis :

These abbreviations are used throughout this report.

EXPORT OF SAWLOGS & VENEER LOGS - 1997

(to other states and countries)

Volumes in Mbf

Exported to:

Species	Canada	Offshore	Maine	N.H.	N.Y.	Total
Ash	101	114	41	822	103	1,181
Aspen	1	1	16	156	60	234
Basswood	16	76	3	1	1	97
Beech	19	37	58	395	36	545
W. Birch	245	7	28	4,691	44	5,015
Y. Birch	1,029	150	166	811	31	2,187
Butternut	1	1	0	50	1	53
Cherry	31	86	17	350	51	535
Elm	1	1	0	0	0	2
S. Maple	2,586	1,032	623	1,355	179	5,775
R. Maple	611	11	137	1,009	236	2,004
Red Oak	272	551	29	750	299	1,901
W. Oak	1	35	0	50	2	88
Other HW	73	6	61	19	32	191
Total HW	4,987	2,108	1,179	10,459	1,075	19,808
Hemlock	4,316	9	0	474	30	4,829
W. Pine	8,121	1	3,150	6,231	679	18,182
R. Pine	1,442	0	0	32	10	1,484
Spruce/Fir	27,739	1	1,370	2,376	0	31,486
Tamarack	0	0	0	1	0	1
Cedar	168	0	0	87	10	265
Total SW	41,786	11	4,520	9,201	729	56,247
Total	46,773	2,119	5,699	19,660	1,804	76,055

Mbf

IMPORT OF SAWLOGS & VENEER LOGS - 1997

Volumes in Mbf

Imported from:

Species	Canada	Conn.	Maine	Mass.	N. H.	N. Y.	Penn.	Total
Ash	127	19	150	1,288	635	1,358	23	3,600
Aspen	80	0	0	53	403	72	53	661
Basswood	0	0	0	8	3	183	2	196
Beech	0	0	0	135	140	319	52	646
W. Birch	40	0	0	177	539	207	90	1,053
Y. Birch	475	3	2	484	2,618	934	40	4,556
Butternut	0	0	0	0	0	6	0	6
Cherry	0	1	0	256	27	3,685	23	3,992
Elm	0	0	0	1	0	125	0	126
S. Maple	228	6	52	884	2,134	4,553	65	7,922
R. Maple	50	3	0	698	526	677	69	2,023
Red Oak	0	543	0	7,638	4,566	6,806	13	19,566
W. Oak	0	26	0	439	53	114	0	632
Other HW	0	108	0	831	31	427	0	1,397
Total HW	1,000	709	204	12,892	11,675	19,466	430	46,376
Hemlock	44	208	132	609	725	343	0	2,061
W. Pine	0	506	0	5,989	12,189	7,973	0	26,657
R. Pine	0	100	8	502	282	284	0	1,176
Spruce/Fir	260	0	647	273	545	202	0	1,927
Tamarack	440	0	56	0	0	605	0	1,101
Cedar	0	0	0	0	0	0	0	0
Total SW	744	814	843	7,373	13,741	9,407	0	32,922
Total	1,744	1,523	1,047	20,265	25,416	28,873	430	79,298

Mbf

VERMONT PULPWOOD HARVEST - 1997

Volumes in Cords

Species	County													Total
	Add	Ben	Cal	Chi	Ess	Fra	Lam	Ora	Orl	Rut	Was	Wih	Wis	
Aspen	65	2	0	370	20	271	253	578	0	0	266	0	153	1,978
Other HW	330	4,426	44,810	1,270	83,217	7,921	6,338	14,345	39,355	8,053	2,208	2,568	7,681	222,522
Total HW	395	4,428	44,810	1,640	83,237	8,192	6,591	14,923	39,355	8,053	2,474	2,568	7,834	224,500
Hemlock	972	282	2,615	309	688	3,620	1,269	5,890	5,998	2,642	2,528	2,423	2,689	31,925
W. Pine	1,738	3,593	6,089	4,456	3,120	2,908	2,506	4,428	6,387	10,309	3,264	7,915	8,650	65,363
Spruce/Fir	165	92	0	225	44,851	271	3,521	5,798	11,590	0	9,004	498	80	76,095
Cedar	0	0	20,332	0	5,521	0	0	0	93	491	0	0	1,909	28,346
Other SW	0	0	5,168	0	1,862	358	0	3,095	1,766	0	0	0	0	12,249
Total SW	2,875	3,967	34,204	4,990	56,042	7,157	7,296	19,211	25,834	13,442	14,796	10,836	13,328	213,978
Total Plpw	3,270	8,395	79,014	6,630	139,279	15,349	13,887	34,134	65,189	21,495	17,270	13,404	21,162	438,478

Cords

Note: All pulpwood is exported from Vermont to neighboring states.

Note: Aspen pulpwood may be included in other hardwoods volume.

WOOD CHIP PRODUCTION - 1997

Sawmill Residue Shipments

Volumes in Green Tons

County

Product	Add	Ben	Cal	Chi	Ess	Fra	Lam	Ora	Orl	Rut	Was	Wih	Wis	Total
hardwood pulp	28,372	3,857	0	9,750	*	0	*	5,000	0	4,628	0	8,852	1,574	62,033
softwood pulp	1,530	901	46,928	750	0	*	0	6,600	5,800	12,050	0	33,870	118	108,547
Total Pulp	29,902	4,758	46,928	10,500	*	*	*	11,600	5,800	16,678	0	42,722	1,692	170,580
hardwood fuel	7,566	20	1,441	1,200	*	0	13,406	*	15,334	20,008	0	14,938	1,500	75,413
softwood fuel	0	175	1,649	13,206	0	4,966	2,780	0	1,400	200	0	0	0	24,376
Total Fuel	7,566	195	3,090	14,406	*	4,966	16,186	*	16,734	20,208	0	14,938	1,500	99,789
Total	37,468	4,953	50,018	24,906	*	4,966	16,186	11,600	22,537	36,886	0	57,660	3,192	289,126

* - data withheld to prevent disclosure of individual mill data.

green tons

112,759

Total does not include withheld data.

cords

Whole Tree Chip Harvest

Volumes in Green Tons

County

Use	Add	Ben	Cal	Chi	Ess	Fra	Lam	Ora	Orl	Rut	Was	Wih	Wis	Total
Pulp	0	0	2,189	0	46,630	0	28	421	3,820	0	1,642	0	0	54,730
Fuel	1,943	0	7,570	12,142	1,871	16,027	3,738	37,469	9,609	0	13,655	0	32,972	136,996
Total	1,943	0	9,759	12,142	48,501	16,027	3,766	37,890	13,429	0	15,297	0	32,972	191,726

* - data withheld to prevent disclosure of individual mill data.

green tons

74,773

NB: The data shown above do not include other mill residues used for fuel such as bark, sawdust, and shavings.

Total does not include withheld data.

cords

DEMAND BY PRIMARY MILLS IN VERMONT - 1997

Volumes in Mbf

County	Commercial Sawmill	Small Sawmill	Specialty Mill	Veneer Mill	Fence Mill	Totals	
						Mills	Mbf
Addison	28,807	24	*	0	0	11	28,831
Bennington	10,358	103	0	0	0	8	10,461
Caledonia	46,802	95	0	0	0	16	46,897
Chittenden	19,845	112	0	0	0	8	19,957
Essex	*	0	0	0	0	5	*
Franklin	3,746	0	0	0	0	5	3,746
Lamoille	18,158	17	*	0	0	10	18,175
Orange	15,860	10	0	0	0	10	15,870
Orleans	7,290	57	153	*	*	20	7,500
Rutland	22,815	503	0	*	0	19	23,318
Washington	0	215	*	0	0	15	215
Windham	48,496	574	0	0	0	25	49,070
Windsor	21,479	820	0	0	0	30	22,299
Total Mbf	243,656	2,530	2,712	32,269	*		296,723
# of Mills	53	120	7	2	2	182	

* - indicates data withheld to prevent disclosure of individual mill data.

** - column sum does not equal total due to data withheld to protect confidentiality.

Small mills include farm and portable; specialty mills include bolter, clapboard, shingle and bowl mills.

Consumption of Sawlogs & Veneer Logs by Mill Size

Mill Class & Capacity	no. of mills	1997 volume	average volume	percent of total
I. over 10 MMbf	7	149,953	21,421.9	50.54%
II. 5 - 10 MMbf	11	81,921	7,447.4	27.61%
III. 2.5 - 5 MMbf	11	37,660	3,423.6	12.69%
IV. 1 - 2.5 MMbf	14	16,081	1,148.6	5.42%
V. 0.5 - 1 MMbf	12	6,398	533.2	2.16%
VI. 0.1 - 0.5 MMbf	27	3,499	129.6	1.18%
VII. under 0.1 MMbf	100	1,211	12.1	0.41%
Total	182	296,723	1,630.3	100.00%

Mbf

Mbf

Vermont Department of Forests, Parks and Recreation