

VERMONT FOREST RESOURCE HARVEST SUMMARY - 1999

1999 AT A GLANCE:

Major Report Categories Summarized
for 1999, 1998, 1997, 1996, 1995

Category (units)	1999	1998	1997	1996	1995
Total Harvest (cds)	918,846	1,093,332	1,177,184	1,237,700	1,258,399
North	609,556	713,427	799,863	891,100	877,680
South	309,290	379,905	377,321	346,600	380,719
Sawlogs (Mbf)	221,175	265,481	293,480	293,847	306,237
hardwoods	112,165	123,408	131,595	108,477	123,766
softwoods	109,010	142,073	161,885	185,370	182,471
Log Exports (Mbf)	76,139	76,123	76,055	103,366	110,651
hardwoods	23,927	23,933	19,808	13,286	42,660
softwoods	52,212	52,190	56,247	90,080	67,991
Log Imports (Mbf)	80,620	80,001	79,298	68,835	59,672
hardwoods	56,691	55,074	46,376	46,089	40,367
softwoods	23,929	25,927	32,922	22,746	19,305
Pulpwood (cds)	303,335	410,590	438,478	406,822	439,260
hardwoods	168,787	222,005	224,500	211,557	170,282
softwoods	134,548	188,585	213,978	195,265	268,260
Whole Tree Chips (gt)	121,965	128,001	191,726	301,083	230,766
pulp	*	0	54,730	56,133	59,828
fuel	121,965	128,001	136,996	244,950	170,938
Mills (#)	158	196	182	160	183
Consumption (Mbf)	225,638	270,359	296,723	259,316	255,258
hardwoods	144,929	154,549	158,163	141,280	121,473
softwoods	80,709	115,810	138,560	118,036	133,785
Mill Residues (gt)	169,732	242,809	289,126	275,311	293,224
pulp	98,591	128,347	181,537	169,294	187,663
fuel	71,141	114,462	107,589	106,017	105,561

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

Mbf: Thousand board feet

cds: cords

gt: green tons

VERMONT FOREST RESOURCE HARVEST SUMMARY - 1999

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	11,312	16,472	27,784
Aspen/Poplar	1,526	3,116	4,642
Basswood	994	870	1,864
Beech	3,394	6,922	10,316
White Birch	13,536	8,210	21,746
Yellow Birch	8,662	8,612	17,274
Butternut	762	500	1,262
Cherry	2,362	3,984	6,346
Elm	42	32	74
Sugar Maple	40,298	37,988	78,286
Red Maple	17,262	19,500	36,762
Red Oak	6,618	9,862	16,480
White Oak	214	314	528
Other Hardwood	142,632	27,121	169,753
Total Hardwood	249,614	143,503	393,117
Hemlock	37,055	17,526	54,581
White Pine	66,450	58,936	125,386
Red Pine	5,662	2,938	8,600
Spruce/Fir	72,360	3,822	76,182
Tamarack	808	22	830
Cedar	71,247	1,809	73,056
Other Softwood	12,602	1,331	13,933
Total Softwood	266,184	86,384	352,568
Mill Residues	36,420	48,446	84,866
Whole Tree Chips	57,338	30,957	88,295
Total Harvest	609,556	309,290	918,846

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 - 1999

Volumes in Mbf (thousand board feet)

Species	County													Total
	Add	Ben	Cal	Chi	Ess	Fra	Lam	Ora	Orl	Rut	Was	Wih	Wis	
Ash	694	1,745	154	233	91	647	1,045	1,287	457	1,756	794	1,504	2,172	12,579
Aspen	187	272	97	8	55	11	74	22	282	595	222	223	273	2,321
Basswood	108	35	24	45	16	119	140	62	59	124	77	39	84	932
Beech	430	483	34	100	75	286	511	198	282	1,104	311	512	832	5,158
White Birch	386	491	910	28	1,699	156	2,026	1,106	384	1,106	487	1,477	617	10,873
Yellow Birch	396	288	412	139	723	442	961	508	581	672	704	2,080	731	8,637
Butternut	17	9	8	18	1	137	62	75	18	16	80	56	134	631
Cherry	78	120	60	43	154	96	324	208	105	169	234	1,255	327	3,173
Elm	4	3	0	1	0	14	2	2	2	3	1	3	2	37
Sugar Maple	2,826	1,399	972	985	1,691	2,857	6,059	3,525	1,916	3,569	3,129	6,233	3,982	39,143
Red Maple	1,908	1,072	680	559	582	1,566	2,215	1,381	819	2,618	1,388	1,638	1,955	18,381
Red Oak	644	564	219	266	181	682	643	753	229	835	602	1,490	1,132	8,240
White Oak	44	44	5	17	1	17	18	35	12	24	19	22	6	264
Other HW	171	138	252	7	2	23	59	41	70	423	88	206	316	1,796
Total HW	7,893	6,663	3,827	2,449	5,271	7,053	14,139	9,203	5,216	13,014	8,136	16,738	12,563	112,165
Hemlock	916	138	505	538	27	2,944	519	1,767	212	559	1,700	1,311	3,186	14,322
White Pine	1,941	1,817	4,828	1,188	868	3,886	2,585	1,670	6,643	5,433	4,011	9,876	3,522	48,268
Red Pine	58	52	317	116	350	90	12	1,097	592	50	373	912	281	4,300
Spruce/Fir	325	107	6,033	7	8,975	1,020	3,372	5,948	7,143	87	3,689	941	444	38,091
Tamarack	0	2	203	3	84	2	6	37	64	6	8	0	0	415
Cedar	7	0	660	8	5	0	0	47	2,750	13	124	0	0	3,614
Total SW	3,247	2,116	12,546	1,860	10,309	7,942	6,494	10,566	17,404	6,148	9,905	13,040	7,433	109,010
Total	11,140	8,779	16,373	4,309	15,580	14,995	20,633	19,769	22,620	19,162	18,041	29,778	19,996	221,175

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
These abbreviations are used throughout this report. **Wis** : Windsor

EXPORT OF SAWLOGS & VENEER LOGS - 1999

(to other states and countries)

Volumes in Mbf

Exported to:

Species	Canada	Maine	Mass.	NH	NY	Overseas	Total
Ash	212	50	58	345	166	0	831
Aspen	5	0	10	192	0	0	207
Basswood	21	0	0	13	0	0	34
Beech	33	10	117	25	231	0	416
W. Birch	316	0	1,136	3,543	203	0	5,198
Y. Birch	469	20	252	526	65	1,500	2,832
Butternut	114	0	0	5	0	0	119
Cherry	58	0	82	14	32	1,000	1,186
Elm	13	0	0	0	0	0	13
S. Maple	3,500	10	407	2,127	439	3,800	10,283
R. Maple	291	20	255	326	133	0	1,025
R. Oak	611	0	47	440	175	0	1,273
W. Oak	35	0	0	0	24	0	59
Other HW	0	0	0	444	7	0	451
Total HW	5,678	110	2,364	8,000	1,475	6,300	23,927
Hemlock	2,491	45	0	762	13	0	3,311
W. Pine	1,534	100	315	7,707	124	0	9,780
R. Pine	2,229	50	0	176	53	0	2,508
Spruce/Fir	24,773	0	3	10,770	33	0	35,579
Tamarack	0	0	0	26	5	0	31
Cedar	988	0	0	10	5	0	1,003
Total SW	32,015	195	318	19,451	233	0	52,212
Total	37,693	305	2,682	27,451	1,708	6,300	76,139

Mbf

IMPORT OF SAWLOGS & VENEER LOGS - 1999

(from other states and countries)

Volumes in Mbf

Imported from:

Species	Canada	Conn.	Maine	Mass.	NH	NY	Total
Ash	100	130	1,496	0	585	1,501	3,812
Aspen	0	0	142	0	618	271	1,031
Basswood	0	0	11	0	27	127	165
Beech	0	0	158	0	606	659	1,423
W. Birch	90	23	222	90	2,332	1,320	4,077
Y. Birch	104	138	593	90	1,856	1,979	4,760
Butternut	0	0	0	0	2	5	7
Cherry	4	2	189	8	76	4,897	5,176
Elm	0	0	1	0	24	2	27
S. Maple	18	4	1,039	18	1,109	4,388	6,576
R. Maple	15	178	1,256	0	1,431	4,575	7,455
R. Oak	0	1,800	6,714	0	5,066	7,528	21,108
W. Oak	0	7	57	0	77	79	220
Other HW	0	227	46	0	129	452	854
Total HW	331	2,509	11,924	206	13,938	27,783	56,691
Hemlock	0	0	472	0	356	233	1,061
W. Pine	16	109	5,235	125	8,390	4,743	18,618
R. Pine	0	0	120	0	43	3,539	3,702
Spruce/Fir	102	0	41	4	15	45	207
Tamarack	0	0	0	0	0	116	116
Cedar	200	0	0	0	25	0	225
Total SW	318	109	5,868	129	8,829	8,676	23,929
Total	649	2,618	17,792	335	22,767	36,459	80,620

Mbf

VERMONT PULPWOOD HARVEST - 1999

Volumes in Cords

County

Species	Add	Ben	Cal	Chi	Ess	Fra	Lam	Ora	Orl	Rut	Was	Wih	Wis	Total
Aspen	33	0	76	0	404	354	223	871	123	83	311	148	0	2,626
Other HW	341	5,373	30,011	105	49,791	7,386	9,104	16,355	25,728	2,677	3,187	6,315	9,788	166,161
Total HW	374	5,373	30,087	105	50,195	7,740	9,327	17,226	25,851	2,760	3,498	6,463	9,788	168,787
Hemlock	146	361	1,434	169	401	7,385	694	3,471	6,881	829	1,441	1,906	819	25,937
W. Pine	802	1,376	3,891	273	2,170	2,403	1,387	3,162	2,219	3,727	2,236	1,627	3,577	28,850
Spruce/Fir	40	0	9,439	104	34,157	578	828	1,697	15,009	398	2,367	473	738	65,828
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other SW	13	0	5,033	0	905	407	430	3,903	1,576	234	348	11	1,073	13,933
Total SW	1,001	1,737	19,797	546	37,633	10,773	3,339	12,233	25,685	5,188	6,392	4,017	6,207	134,548
Total Pulpwood	1,375	7,110	49,884	651	87,828	18,513	12,666	29,459	51,536	7,948	9,890	10,480	15,995	303,335

Cords

WOOD CHIP PRODUCTION - 1999

Sawmill Residue Shipments

Volumes in Green Tons

County

Product	Add	Ben	Cal	Chi	Ess	Fra	Lam	Ora	Orl	Rut	Was	Wih	Wis	Total
hardwood pul	26,631	3,126	0	6,377	0	0	15,000	0	24	4,371	0	4,579	0	60,108
softwood pulp	1,275	252	5,048	0	0	0	0	8,000	5,400	13,001	0	5,507	0	38,483
Total Pulp	27,906	3,378	5,048	6,377	0	0	15,000	8,000	5,424	17,372	0	10,086	0	98,591
hardwood fue	6,748	0	50	1,714	295	0	5,080	11,537	7,251	2,669	0	1,535	3,910	40,789
softwood fuel	0	35	179	14,552	5,000	0	7,326	1,050	1,600	0	0	0	610	30,352
Total Fuel	6,748	35	229	16,266	5,295	0	12,406	12,587	8,851	2,669	0	1,535	4,520	71,141
Total	34,654	3,413	5,277	22,643	5,295	0	27,406	20,587	14,275	20,041	0	11,621	4,520	169,732

green tons

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

66,196

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	*	0	0	0	0	0	0	0	0	0	0	*
Fuel	1,230	0	1,833	15,983	615	19,672	611	34,257	3,063	7,377	0	8,607	28,717	121,965
Total	1,230	0	1,833	15,983	615	19,672	611	34,257	3,063	7,377	0	8,607	28,717	121,965

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

Total does not include withheld data.

green tons

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

47,567

cords

DEMAND BY PRIMARY MILLS IN VERMONT - 1999

Volumes in Mbf

County	Commercial Sawmill	Small Sawmill	Specialty Mill	Fence Mill	Veneer Mill	Totals			
						Mills	Mbf	hardwood	softwood
Addison	25,883	548	*	0	0	13	26,908	25,180	1,728
Bennington	5,148	120	0	0	0	7	5,268	3,182	2,086
Caledonia	7,236	380	0	0	0	16	7,616	53	7,563
Chittenden	17,052	*	0	0	0	6	17,089	5,378	11,711
Essex	13,339	*	0	0	0	3	13,345	13,339	6
Franklin	4,825	103	0	0	0	5	4,928	276	4,652
Lamoille	14,037	*	*	0	0	11	15,349	13,327	2,022
Orange	3,301	200	0	0	0	7	3,501	2,408	1,093
Orleans	7,909	743	*	*	*	16	27,094	18,513	8,581
Rutland	26,289	282	*	0	*	18	43,795	28,204	15,591
Washington	0	404	0	0	0	9	404	132	272
Windham	47,927	1,625	*	0	0	29	49,596	26,477	23,119
Windsor	9,578	1,157	0	*	0	18	10,745	8,460	2,285
Total Mbf	182,524	5,637	2,176	1,010	34,291		225,638	144,929	80,709
# of Mills	50	98	6	2	2	158			

Mbf Mbf

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

Column sum may not equal total due to withheld data.

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

Consumption of Sawlogs & Veneer Logs by Mill Size - 1999

Mill Class & Capacity	no. of mills	1999 volume	1999 hardwood	1999 softwood	average volume	percent of total
I. over 10 MMbf	7	119,535	92,987	26,548	17,076.4	53.0%
II. 5 - 10 MMbf	5	30,726	14,357	16,369	6,145.2	13.6%
III. 2.5 - 5 MMbf	11	38,385	20,924	17,461	3,489.5	17.0%
IV. 1 - 2.5 MMbf	14	22,853	11,189	11,664	1,632.4	10.1%
V. 0.5 - 1 MMbf	8	5,410	3,750	1,660	676.3	2.4%
VI. 0.1 - 0.5 MMbf	33	7,287	1,283	6,004	220.8	3.2%
VII. under 0.1 MMbf	80	1,442	439	1,003	18.0	0.6%
Total	158	225,638	144,929	80,709	1,428.1	100.0%

Mbf Mbf Mbf