

## VERMONT FOREST RESOURCE HARVEST SUMMARY - 1998

### 1998 AT A GLANCE:

Major Report Categories Summarized  
for 1998, 1997, 1996, 1995, 1994

Category (units)	1998	1997	1996	1995	1994
<b>Total Harvest (cds)</b>	1,093,332	1,177,184	1,237,700	1,258,399	1,239,412
North	713,427	799,863	891,100	877,680	864,761
South	379,905	377,321	346,600	380,719	374,651
<b>Sawlogs (Mbf)</b>	265,481	293,480	293,847	306,237	301,822
hardwoods	123,408	131,595	108,477	123,766	124,182
softwoods	142,073	161,885	185,370	182,471	177,640
<b>Log Exports (Mbf)</b>	76,123	76,055	103,366	110,651	97,256
hardwoods	23,933	19,808	13,286	42,660	41,137
softwoods	52,190	56,247	90,080	67,991	56,119
<b>Log Imports (Mbf)</b>	80,001	79,298	68,835	59,672	61,328
hardwoods	55,074	46,376	46,089	40,367	43,458
softwoods	25,927	32,922	22,746	19,305	17,870
<b>Pulpwood (cds)</b>	410,590	438,478	406,822	439,260	415,985
hardwoods	222,005	224,500	211,557	170,282	137,918
softwoods	188,585	213,978	195,265	268,260	278,067
<b>Whole Tree Chips (gt)</b>	128,001	191,726	301,083	230,766	255,516
pulp	0	54,730	56,133	59,828	59,404
fuel	128,001	136,996	244,950	170,938	196,112
<b>Mills (#)</b>	142	182	160	183	187
<b>Consumption (Mbf)</b>	270,359	296,723	259,316	255,258	265,894
hardwoods	154,549	158,163	141,280	121,473	126,503
softwoods	115,810	138,560	118,036	133,785	139,391
<b>Mill Residues (gt)</b>	242,809	289,126	275,311	293,224	294,198
pulp	128,347	181,537	169,294	187,663	190,818
fuel	114,462	107,589	106,017	105,561	103,380

Mbf: Thousand board feet

cds: cords

gt: green tons

Vermont Department of Forests, Parks & Recreation

## VERMONT FOREST RESOURCE HARVEST SUMMARY - 1998

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
<b>Ash</b>	9,286	17,212	<b>26,498</b>
<b>Aspen/Poplar</b>	5,037	5,082	<b>10,119</b>
<b>Basswood</b>	1,080	730	<b>1,810</b>
<b>Beech</b>	3,484	5,950	<b>9,434</b>
<b>White Birch</b>	13,580	8,502	<b>22,082</b>
<b>Yellow Birch</b>	18,500	13,508	<b>32,008</b>
<b>Butternut</b>	522	372	<b>894</b>
<b>Cherry</b>	2,126	4,028	<b>6,154</b>
<b>Elm</b>	20	214	<b>234</b>
<b>Sugar Maple</b>	46,804	48,258	<b>95,062</b>
<b>Red Maple</b>	10,054	13,824	<b>23,878</b>
<b>Red Oak</b>	6,670	11,632	<b>18,302</b>
<b>White Oak</b>	408	648	<b>1,056</b>
<b>Other Hardwood</b>	179,278	42,012	<b>221,290</b>
<b>Total Hardwood</b>	<b>296,849</b>	<b>171,972</b>	<b>468,821</b>
<b>Hemlock</b>	36,261	19,262	<b>55,523</b>
<b>White Pine</b>	78,845	103,243	<b>182,088</b>
<b>Red Pine</b>	17,254	5,480	<b>22,734</b>
<b>Spruce/Fir</b>	191,868	12,172	<b>204,040</b>
<b>Tamarack</b>	852	32	<b>884</b>
<b>Cedar</b>	7,450	12	<b>7,462</b>
<b>Total Softwood</b>	<b>332,530</b>	<b>140,201</b>	<b>472,731</b>
<b>Mill Residues</b>	48,198	48,910	<b>97,108</b>
<b>Whole Tree Chips</b>	35,850	18,823	<b>54,672</b>
<b>Total Harvest</b>	<b>713,427</b>	<b>379,905</b>	<b>1,093,332</b>

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 - 1998

Volumes in Mbf (thousand board feet)

County

Species	Add	Ben	Cal	Chi	Ess	Fra	Lam	Ora	Orl	Rut	Was	Wih	Wis	Total
Ash	695	1,995	236	222	91	596	1,083	1,130	719	1,878	788	1,668	2,148	13,249
Aspen	284	267	183	11	94	112	139	249	96	691	273	305	322	3,026
Basswood	66	45	46	49	28	105	130	106	72	95	53	36	74	905
Beech	345	528	111	112	63	289	322	360	198	795	399	700	495	4,717
White Birch	476	537	1,153	33	1,442	96	1,635	1,354	506	1,119	604	1,459	627	11,041
Yellow Birch	476	699	824	133	4,436	360	1,048	747	939	697	896	3,776	973	16,004
Butternut	11	8	5	16	2	28	25	176	14	69	11	12	70	447
Cherry	68	192	76	57	183	93	277	143	155	225	136	1,251	221	3,077
Elm	1	2	0	0	0	3	3	2	0	101	2	2	1	117
Sugar Maple	3,228	2,702	1,457	1,265	707	3,106	5,939	3,743	4,735	3,817	3,715	8,671	4,446	47,531
Red Maple	1,413	1,082	388	228	237	1,297	1,081	500	811	1,917	713	1,401	871	11,939
Red Oak	596	1,141	303	213	114	655	536	762	325	978	640	1,766	1,122	9,151
White Oak	97	28	7	26	3	21	20	123	12	36	18	74	63	528
Other HW	75	346	23	9	7	29	76	30	18	244	67	104	648	1,676
<b>Total HW</b>	<b>7,831</b>	<b>9,572</b>	<b>4,812</b>	<b>2,374</b>	<b>7,407</b>	<b>6,790</b>	<b>12,314</b>	<b>9,425</b>	<b>8,600</b>	<b>12,662</b>	<b>8,315</b>	<b>21,225</b>	<b>12,081</b>	<b>123,408</b>
Hemlock	682	239	762	1,064	249	1,407	1,361	1,074	414	775	695	1,447	1,388	11,557
White Pine	2,636	3,378	5,544	1,995	1,576	3,047	3,560	4,672	2,782	4,870	4,821	19,468	9,005	67,354
Red Pine	38	1	285	74	51	19	5	1,492	429	151	330	516	1,301	4,692
Spruce/Fir	230	395	14,892	5	2,378	1,005	3,589	11,075	10,514	2,105	5,892	1,344	873	54,297
Tamarack	1	6	190	3	111	1	6	57	54	6	7	0	0	442
Cedar	0	0	819	6	95	0	0	10	2,723	0	78	0	0	3,731
<b>Total SW</b>	<b>3,587</b>	<b>4,019</b>	<b>22,492</b>	<b>3,147</b>	<b>4,460</b>	<b>5,479</b>	<b>8,521</b>	<b>18,380</b>	<b>16,916</b>	<b>7,907</b>	<b>11,823</b>	<b>22,775</b>	<b>12,567</b>	<b>142,073</b>
<b>Total</b>	<b>11,418</b>	<b>13,591</b>	<b>27,304</b>	<b>5,521</b>	<b>11,867</b>	<b>12,269</b>	<b>20,835</b>	<b>27,805</b>	<b>25,516</b>	<b>20,569</b>	<b>20,138</b>	<b>44,000</b>	<b>24,648</b>	<b>265,481</b>

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** : Windsor

**These abbreviations are used throughout this report.**

## EXPORT OF SAWLOGS & VENEER LOGS - 1998

(to other states and countries)

Volumes in Mbf

Exported to:

Species	Canada	Offshore	Maine	Mass.	N.H.	N.Y.	Total
Ash	109	0	46	65	595	144	959
Aspen	3	0	6	48	439	2	498
Basswood	7	0	0	0	91	0	98
Beech	30	0	317	23	88	2	460
W. Birch	129	0	806	17	4,102	365	5,419
Y. Birch	460	1,500	192	19	1,408	210	3,789
Butternut	1	0	0	0	162	0	163
Cherry	59	1,000	16	16	80	60	1,231
Elm	1	0	0	0	0	0	1
S. Maple	1,342	3,800	405	19	2,119	226	7,911
R. Maple	176	0	518	106	300	631	1,731
Red Oak	215	0	21	17	577	255	1,085
W. Oak	30	0	0	0	53	7	90
Other HW	0	0	0	1	146	351	498
<b>Total HW</b>	<b>2,562</b>	<b>6,300</b>	<b>2,327</b>	<b>331</b>	<b>10,160</b>	<b>2,253</b>	<b>23,933</b>
Hemlock	286	0	0	100	1,083	13	1,482
W. Pine	403	0	315	226	10,754	475	12,173
R. Pine	1,755	0	0	0	96	53	1,904
Spruce/Fir	21,074	0	500	40	13,200	33	34,847
Tamarack	2	0	0	0	57	5	64
Cedar	181	0	0	0	1,534	5	1,720
<b>Total SW</b>	<b>23,701</b>	<b>0</b>	<b>815</b>	<b>366</b>	<b>26,724</b>	<b>584</b>	<b>52,190</b>
<b>Total</b>	<b>26,263</b>	<b>6,300</b>	<b>3,142</b>	<b>697</b>	<b>36,884</b>	<b>2,837</b>	<b>76,123</b>

Mbf

## IMPORT OF SAWLOGS & VENEER LOGS - 1998

Volumes in Mbf

Imported from:

Species	Canada	Conn.	Maine	Mass.	N. H.	N. Y.	Penn.	Total
Ash	105	120	0	1,293	578	1,539	0	3,635
Aspen	0	5	0	115	530	240	0	890
Basswood	0	0	0	15	29	67	0	111
Beech	0	1	0	152	538	563	0	1,254
W. Birch	0	1	0	285	944	494	0	1,724
Y. Birch	0	265	94	482	2,254	1,773	1	4,869
Butternut	0	0	0	1	14	7	0	22
Cherry	0	1	0	246	100	4,158	71	4,576
Elm	0	0	0	1	1	3	0	5
S. Maple	22	3	9	790	2,421	5,398	0	8,643
R. Maple	4	175	0	598	1,321	2,456	0	4,554
Red Oak	0	2,809	0	6,431	5,448	8,333	0	23,021
W. Oak	0	9	0	464	80	210	0	763
Other HW	2	214	0	48	112	631	0	1,007
<b>Total HW</b>	<b>133</b>	<b>3,603</b>	<b>103</b>	<b>10,921</b>	<b>14,370</b>	<b>25,872</b>	<b>72</b>	<b>55,074</b>
Hemlock	0	5	0	160	311	83	0	559
W. Pine	0	139	7	5,511	10,605	8,744	0	25,006
R. Pine	0	0	0	47	32	130	0	209
Spruce/Fir	0	0	132	6	12	2	0	152
Tamarack	0	0	0	0	0	1	0	1
Cedar	0	0	0	0	0	0	0	0
<b>Total SW</b>	<b>0</b>	<b>144</b>	<b>139</b>	<b>5,724</b>	<b>10,960</b>	<b>8,960</b>	<b>0</b>	<b>25,927</b>
<b>Total</b>	<b>133</b>	<b>3,747</b>	<b>242</b>	<b>16,645</b>	<b>25,330</b>	<b>34,832</b>	<b>72</b>	<b>81,001</b>

Mbf

# VERMONT PULPWOOD HARVEST - 1998

Volumes in Cords

Species	County													Total
	Add	Ben	Cal	Chi	Ess	Fra	Lam	Ora	Orl	Rut	Was	Wih	Wis	
Aspen	347	29	0	126	0	506	19	1,511	0	88	709	25	707	4,067
Other HW	1,197	7,987	32,040	875	62,717	8,948	12,020	21,635	35,260	7,139	6,158	6,808	15,154	217,938
<b>Total HW</b>	<b>1,544</b>	<b>8,016</b>	<b>32,040</b>	<b>1,001</b>	<b>62,717</b>	<b>9,454</b>	<b>12,039</b>	<b>23,146</b>	<b>35,260</b>	<b>7,227</b>	<b>6,867</b>	<b>6,833</b>	<b>15,861</b>	<b>222,005</b>
Hemlock	534	276	1,609	431	120	3,194	1,007	8,699	6,251	2,269	3,457	1,347	3,215	32,409
W. Pine	626	2,296	6,496	2,240	3,179	5,100	2,658	1,353	4,579	7,213	3,476	3,912	4,252	47,380
Spruce/Fir	895	27	23,995	54	41,067	328	2,422	5,238	14,381	295	5,747	254	743	95,446
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other SW	0	0	4,804	0	797	407	430	3,762	1,549	234	283	11	1,073	13,350
<b>Total SW</b>	<b>2,055</b>	<b>2,599</b>	<b>36,904</b>	<b>2,725</b>	<b>45,163</b>	<b>9,029</b>	<b>6,517</b>	<b>19,052</b>	<b>26,760</b>	<b>10,011</b>	<b>12,963</b>	<b>5,524</b>	<b>9,283</b>	<b>188,585</b>
<b>Total Plpw</b>	<b>3,599</b>	<b>10,615</b>	<b>68,944</b>	<b>3,726</b>	<b>107,880</b>	<b>18,483</b>	<b>18,556</b>	<b>42,198</b>	<b>62,020</b>	<b>17,238</b>	<b>19,830</b>	<b>12,357</b>	<b>25,144</b>	<b>410,590</b>

Cords

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

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

## WOOD CHIP PRODUCTION - 1998

### 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	27,897	*	0	*	0	0	*	*	0	13,205	0	3,219	0	79,698
softwood pulp	855	0	*	0	0	0	4,355	8,375	940	25,691	0	*	0	48,649
<b>Total Pulp</b>	<b>28,752</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4,355</b>	<b>8,375</b>	<b>940</b>	<b>38,896</b>	<b>0</b>	<b>3,219</b>	<b>0</b>	<b>128,347</b>
hardwood fuel	6,891	*	13,719	3,304	*	0	10,921	*	17,723	3,678	*	1,100	0	61,109
softwood fuel	0	0	36,133	15,250	0	0	0	80	1,550	*	*	0	*	53,353
<b>Total Fuel</b>	<b>6,891</b>	<b>0</b>	<b>49,852</b>	<b>18,554</b>	<b>0</b>	<b>0</b>	<b>10,921</b>	<b>80</b>	<b>19,273</b>	<b>3,678</b>	<b>*</b>	<b>1,100</b>	<b>0</b>	<b>114,462</b>
<b>Total</b>	<b>35,643</b>	<b>*</b>	<b>49,852</b>	<b>18,554</b>	<b>*</b>	<b>0</b>	<b>15,276</b>	<b>8,455</b>	<b>20,213</b>	<b>42,574</b>	<b>*</b>	<b>4,319</b>	<b>0</b>	<b>242,809</b>

Green Tons

**94,696**

Cords

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

Columns and rows do not sum to totals to protect confidentiality.

### Whole Tree Chip Harvest

Volumes in Green Tons

#### County

Use	Add	Ben	Cal	Chi	Ess	Fra	Lam	Ora	Orl	Rut	Was	Wih	Wis	Total
<b>Pulp</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Fuel</b>	1,190	0	3,306	10,742	6,924	11,898	4,793	47,071	6,808	0	8,824	0	26,445	128,001
<b>Total</b>	<b>1,190</b>	<b>0</b>	<b>3,306</b>	<b>10,742</b>	<b>6,924</b>	<b>11,898</b>	<b>4,793</b>	<b>47,071</b>	<b>6,808</b>	<b>0</b>	<b>8,824</b>	<b>0</b>	<b>26,445</b>	<b>128,001</b>

Green Tons

**49,921**

Cords

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

## DEMAND BY PRIMARY MILLS IN VERMONT - 1998

Volumes in Mbf

County	Commercial Sawmill	Small Sawmill	Specialty Mill	Veneer Mill	Fence Mill	Totals			
						Mills	Mbf	hardwood	softwood
Addison	25,153	455	*	0	0	10	26,125	24,420	1,705
Bennington	9,545	731	0	0	0	9	10,276	8,245	2,031
Caledonia	32,043	289	*	0	0	19	32,607	628	31,979
Chittenden	17,316	82	0	0	0	8	17,398	5,487	11,911
Essex	*	0	0	0	0	4	*	*	*
Franklin	4,010	111	0	0	0	5	4,121	90	4,031
Lamoille	16,369	*	*	0	0	10	18,187	17,471	716
Orange	16,114	465	0	0	0	12	16,579	7,859	8,720
Orleans	5,960	245	*	*	*	20	25,333	20,045	5,288
Rutland	23,717	595	0	*	0	18	40,880	26,484	14,396
Washington	0	407	*	0	0	19	449	91	358
Windham	56,148	1,919	*	0	0	30	58,125	25,041	33,084
Windsor	3,082	275	*	0	0	11	5,237	2,695	2,542
<b>Total Mbf</b>	222,075	5,602	4,650	*	*		<b>270,359</b>	154,549	115,810
<b># of Mills</b>	46	120	7	2	1	<b>176</b>			

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

column sum may 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	1998 volume	1998 hardwood	1998 softwood	average volume	percent of total
I. over 10 MMbf	9	157,270	95,735	61,535	17,474.4	58.17%
II. 5 - 10 MMbf	9	54,366	28,303	26,063	6,040.7	20.11%
III. 2.5 - 5 MMbf	9	28,140	15,785	12,355	3,126.7	10.41%
IV. 1 - 2.5 MMbf	10	16,331	10,423	5,908	1,633.1	6.04%
V. 0.5 - 1 MMbf	9	6,727	2,446	4,281	747.4	2.49%
VI. 0.1 - 0.5 MMbf	34	5,602	1,223	4,379	164.8	2.07%
VII. under 0.1 MMbf	116	1,923	634	1,289	16.6	0.71%
<b>Total</b>	196	270,359	154,549	115,810	1,379.4	100.00%

total includes idle mills

Mbf

Mbf

Mbf

Mbf