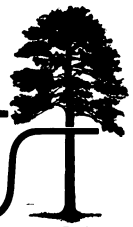


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# N. C. ARCHIVES

## Research Note

NC-247



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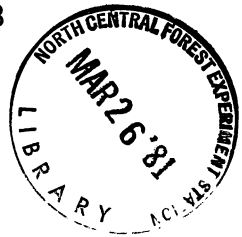
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NORTH CENTRAL FOREST EXPERIMENT STATION  
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### PULPWOOD PRODUCTION IN THE LAKE STATES, BY COUNTY, 1978

James E. Blyth, *Principal Market Analyst*,  
and W. Brad Smith, *Associate Mensurationist*



**ABSTRACT.**-- Pulpwood production in the Lake States--Michigan, Minnesota, and Wisconsin--advanced from 4.74 million cords in 1977 to 4.91 million cords in 1978. Pulpwood production is shown by county and species group for these three States.

**OXFORD:** 861.0(77):792. **KEY WORDS:** Residue, Michigan, Minnesota, Wisconsin.

Lake States pulpwood production inched up to 4.91 million cords in 1978 from 4.74 million cords in 1977. By State, production was 1.89 million cords in Wisconsin (up 4 percent), 1.68 million cord in Michigan (up 5 percent), and 1.34 million cords in Minnesota (up 0.4 percent).

Nine out of 10 cords came from roundwood (including chips); the other cord came from mill residue such as slabs, edgings, veneer cores, and chips from those materials. Production from softwood and hardwood residue by State was:

<u>State</u>	<u>Softwood</u> (Hundred standard cords)	<u>Hardwood</u>
Michigan	268	1,203
Minnesota	353	744
Wisconsin	404	1,835

Pine pulpwood output climbed to a record 820,000 cords, 88,000 cords ahead of 1977. Other moderate increases were in maple (77,000 cords), aspen (34,000 cords), and birch (24,000 cords). Elm pulpwood production fell 34,000 cords; several other species had nominal declines.

Harvesting rose substantially in the Western Upper Peninsula and Northern Lower Peninsula of Michigan and in Northwestern Wisconsin. No area had a significant harvest reduction.

Counties producing more than 100,000 cords were Iron, Marquette, and Dickinson in Michigan; St. Louis, Koochiching, and Itasca in Minnesota; and Oneida, Price, Marinette, and Forest in Wisconsin (table 1).

Pulpmills using Lake States timber in 1978 reported their pulpwood receipts by species group and State and county of origin. Their cooperation is gratefully acknowledged. Thanks are also due the Michigan Department of Natural Resources for collecting the data from pulpmills in Michigan.

Table 1.--Lake States pulpwood production from roundwood by county and species, 1978  
(In hundred standard cords, roughwood basis)

MICHIGAN													
UNIT AND COUNTY	ALL SPECIES	PINE	SPRUCE	BALSAM FIR	HEM-LOCK	TAM-ARACK	CEDAR	ASPEN	BIRCH	OAK	MAPLE	OTHER	HDWDS.
<b>E. UPPER PENINSULA</b>													
ALGER	366	80	12	34	59	1	4	40	33	1	66	36	
CHIPPEWA	322	150	35	40	10	2	2	43	15	X	13	12	
DELTA	990	119	45	116	39	3	13	351	92	3	139	70	
LUCE	547	278	44	54	52	1	2	34	19	1	32	30	
MACKINAC	261	58	41	50	8	X	1	56	13	X	16	18	
MENOMINEE	857	29	47	107	43	4	11	380	62	3	115	56	
SCHOOLCRAFT	525	140	22	37	27	2	4	129	44	1	60	59	
<b>TOTAL</b>	<b>3868</b>	<b>854</b>	<b>246</b>	<b>438</b>	<b>238</b>	<b>13</b>	<b>37</b>	<b>1033</b>	<b>278</b>	<b>9</b>	<b>441</b>	<b>281</b>	
<b>W. UPPER PENINSULA</b>													
BARAGA	582	29	12	34	43	X	1	223	54	1	133	52	
DICKINSON	1054	14	19	45	13	1	2	717	86	2	95	60	
GOGEBIC	298	21	5	22	30	X	X	133	20	0	47	20	
HOUGHTON	242	52	7	12	14	X	1	34	30	X	65	27	
IRON	1186	108	76	158	42	2	6	450	85	1	181	77	
KEWEENAW	15	1	1	7	0	0	0	X	1	0	3	1	
MARQUETTE	1157	242	48	124	59	2	13	275	115	4	201	74	
ONTONAGON	838	40	8	30	35	0	X	363	67	X	221	74	
<b>TOTAL</b>	<b>5372</b>	<b>507</b>	<b>176</b>	<b>426</b>	<b>243</b>	<b>5</b>	<b>23</b>	<b>2195</b>	<b>458</b>	<b>8</b>	<b>946</b>	<b>385</b>	
<b>N. LOWER PENINSULA</b>													
ALCONA	490	27	X	X	X	0	0	296	25	94	27	21	
ALPENA	234	22	1	1	0	0	0	124	10	18	40	18	
ANTRIM	1	1	0	0	0	0	0	0	0	0	0	0	
ARENAC	1	0	0	0	0	0	0	1	0	0	X	0	
BENZIE	103	0	0	0	0	0	0	68	4	6	22	3	
CHARLEVOIX	10	0	0	0	0	0	0	2	0	1	6	1	
CHEBOYGAN	205	47	X	1	X	0	0	90	9	4	38	16	
CLARE	422	16	0	0	0	0	0	284	11	69	33	9	
CRAWFORD	167	114	X	X	0	0	0	25	1	19	6	2	
EMMET	X	0	0	0	0	0	0	X	0	0	0	0	
GLADWIN	71	0	0	0	0	0	0	38	5	9	16	3	
GRAND TRAVERS	61	20	0	0	0	0	0	28	1	2	8	2	
IOSCO	156	109	X	0	0	0	0	14	1	28	3	1	
ISABELLA	59	X	0	0	0	0	0	56	2	1	X	X	
KALKASKA	67	23	0	0	0	0	0	22	5	3	13	1	
LAKE	365	65	0	0	0	0	0	112	2	146	37	3	
LEELANAU	1	1	0	0	0	0	0	0	0	0	0	0	
MANISTEE	201	12	0	0	0	0	0	70	2	62	50	5	
MASON	226	23	0	0	0	0	0	100	4	55	39	5	
MECOSTA	135	29	0	0	0	0	0	83	X	12	8	3	
MIDLAND	50	0	0	0	0	0	0	26	6	X	17	1	
MISSAUKEE	67	9	0	0	0	0	0	31	3	8	11	5	
MONTMORENCY	405	55	1	1	0	0	0	214	12	67	35	20	
NEWAYGO	336	60	0	0	0	0	0	132	1	118	19	6	
OCEANA	198	17	0	0	0	0	0	134	2	27	14	4	
OGEMAW	110	34	0	0	0	0	0	36	3	24	10	3	
OSCEOLA	270	31	0	0	0	0	0	135	5	33	59	7	
OSCODA	341	129	X	1	X	0	0	124	6	55	18	8	
OTSEGO	80	41	X	X	1	0	0	16	X	9	11	2	
PRESQUE ISLE	206	38	X	4	1	0	0	102	34	3	16	8	
ROSCOMMON	234	60	X	0	X	0	0	71	4	81	16	2	
WEXFORD	472	229	X	1	1	0	0	134	4	41	57	5	
<b>TOTAL</b>	<b>5744</b>	<b>1212</b>	<b>2</b>	<b>9</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>2568</b>	<b>162</b>	<b>995</b>	<b>629</b>	<b>164</b>	
<b>S. LOWER PENINSULA</b>													
ALLEGAN	24	17	0	0	0	0	0	2	X	4	1	X	
BARRY	8	7	0	0	0	0	0	1	0	0	0	0	
CASS	X	X	0	0	0	0	0	0	0	0	0	0	
GRATIOT	14	X	0	0	0	0	0	14	0	X	0	0	
IONIA	2	2	0	0	0	0	0	0	0	0	0	0	
KALAMAZOO	1	1	0	0	0	0	0	0	0	0	0	0	
KENT	22	0	0	0	0	0	0	11	X	8	2	1	
LIVINGSTON	X	0	0	0	0	0	0	0	0	X	X	0	
MONTCALM	44	14	0	0	0	0	0	19	X	8	2	1	
MUSKEGON	66	47	0	0	0	0	0	11	X	7	1	X	
OAKLAND	X	X	0	0	0	0	0	0	0	0	0	0	
OTTAWA	109	107	0	0	0	0	0	1	X	1	X	X	
SHIAWASSEE	1	1	0	0	0	0	0	0	0	0	0	0	
VAN BUREN	X	X	0	0	0	0	0	0	0	0	0	0	
WASHTENAW	1	1	0	0	0	0	0	0	0	0	0	0	
<b>TOTAL</b>	<b>292</b>	<b>197</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>59</b>	<b>X</b>	<b>28</b>	<b>6</b>	<b>2</b>	
<b>STATE TOTAL</b>	<b>15276</b>	<b>2770</b>	<b>424</b>	<b>873</b>	<b>484</b>	<b>18</b>	<b>60</b>	<b>5855</b>	<b>898</b>	<b>1040</b>	<b>2022</b>	<b>832</b>	

1/ INCLUDES ONLY THOSE COUNTIES THAT SUPPLIED PULPWOOD IN 1978.  
X=LESS THAN 50 CORDS.

(CONTINUED ON NEXT PAGE)

MINNESOTA

UNIT AND COUNTY	ALL SPECIES	PINE	SPRUCE	BALSAM FIR	HEM-LOCK	TAM-ARACK	CEDAR	ASPEN	BIRCH	OAK	MAPLE	OTHER HDWDS.
<b>NORTHERN ASPEN BIRCH</b>												
CARLTON	257	32	31	22	0	1	0	168	2	0	1	0
COOK	255	60	115	50	0	0	0	30	0	0	0	0
KOOCHICHING	2574	163	661	263	0	157	0	1217	4	0	1	108
LAKE	680	200	180	48	0	0	0	247	5	0	X	0
ST. LOUIS	2974	436	275	206	0	21	0	1966	10	X	1	59
<b>TOTAL</b>	<b>6740</b>	<b>891</b>	<b>1262</b>	<b>589</b>	<b>0</b>	<b>179</b>	<b>0</b>	<b>3628</b>	<b>21</b>	<b>X</b>	<b>3</b>	<b>167</b>
<b>NORTHERN PINE</b>												
AITKIN	593	17	23	14	0	31	0	479	6	13	6	4
BECKER	23	18	0	0	0	0	0	5	0	0	0	0
BELTRAMI	818	163	97	107	0	17	0	426	6	0	1	1
CASS	749	178	7	13	0	9	0	525	8	3	1	5
CLEARWATER	174	24	14	12	0	18	0	106	X	0	X	0
CROW WING	169	78	X	X	0	0	0	91	0	0	0	0
HUBBARD	427	113	6	3	0	2	0	303	0	0	0	0
ITASCA	1473	74	107	215	0	23	0	972	29	3	6	44
LAKE OF THE W.	236	71	85	3	0	4	0	73	0	0	0	X
MAHNOHEN	18	11	0	0	0	2	0	5	0	0	0	0
ROSEAU	155	65	38	1	0	X	0	51	0	0	0	0
WADENA	108	78	0	1	0	0	0	29	0	0	0	0
<b>TOTAL</b>	<b>4943</b>	<b>890</b>	<b>377</b>	<b>369</b>	<b>0</b>	<b>106</b>	<b>0</b>	<b>3065</b>	<b>49</b>	<b>19</b>	<b>14</b>	<b>54</b>
<b>CENTRAL HARDWOOD</b>												
BENTON	1	0	0	0	0	0	0	1	0	0	0	0
CHISAGO	2	0	0	0	0	0	0	2	0	0	0	0
HENNEPIN	29	0	0	0	0	0	0	0	0	0	0	29
ISANTI	15	15	0	0	0	0	0	0	0	0	0	0
KANABEC	63	6	0	0	0	0	0	37	4	12	4	0
MILLE LACS	162	0	0	0	0	0	0	101	12	37	12	0
MORRISON	101	18	X	0	0	0	0	63	4	12	4	0
OTTER TAIL	15	10	0	0	0	0	0	5	0	0	0	0
PINE	153	12	X	0	0	0	0	137	2	2	0	0
RAMSEY	20	0	0	0	0	0	0	0	0	0	0	20
SHERBURNE	X	0	X	0	0	0	0	0	0	0	0	0
TODD	17	15	0	0	0	0	0	2	0	0	0	0
<b>TOTAL</b>	<b>578</b>	<b>76</b>	<b>X</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>348</b>	<b>22</b>	<b>63</b>	<b>20</b>	<b>49</b>
<b>PRAIRIE</b>												
POLK	27	0	X	0	0	22	0	5	0	0	0	0
<b>TOTAL</b>	<b>27</b>	<b>0</b>	<b>X</b>	<b>0</b>	<b>0</b>	<b>22</b>	<b>0</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>STATE TOTAL</b>	<b>12288</b>	<b>1857</b>	<b>1639</b>	<b>958</b>	<b>0</b>	<b>307</b>	<b>0</b>	<b>7046</b>	<b>92</b>	<b>82</b>	<b>37</b>	<b>270</b>

1/ INCLUDES ONLY THOSE COUNTIES THAT SUPPLIED PULPWOOD IN 1978.  
X=LESS THAN 50 CORDS.

(CONTINUED ON NEXT PAGE)

WISCONSIN

UNIT AND COUNTY	1/ ALL SPECIES	PINE	SPRUCE	BALSAM FIR	HEM-LOCK	TAM-ARACK	CEDAR	ASPEN	BIRCH	OAK	MAPLE	OTHER HWDS.
<b>NORTHEASTERN</b>												
FLORENCE	517	62	12	22	5	X	0	354	14	X	29	19
FOREST	1080	88	31	163	45	1	2	450	67	X	104	129
LANGLADE	527	19	2	25	8	4	0	175	37	5	134	118
LINCOLN	540	48	18	40	18	3	3	302	20	13	30	45
MARINETTE	1098	196	17	48	19	X	1	572	125	14	54	52
OCONTO	371	140	3	25	2	0	0	155	22	X	17	7
ONEIDA	1540	271	66	144	15	3	1	677	193	36	70	64
SHAWANO 2/	622	69	1	1	176	0	0	237	13	7	59	59
VILAS	762	88	16	60	16	1	X	386	125	3	45	22
<b>TOTAL</b>	<b>7057</b>	<b>981</b>	<b>166</b>	<b>528</b>	<b>304</b>	<b>12</b>	<b>7</b>	<b>3308</b>	<b>616</b>	<b>78</b>	<b>542</b>	<b>515</b>
<b>NORTHWESTERN</b>												
ASHLAND	845	53	9	76	17	X	2	459	67	21	72	69
BARRON	79	3	0	0	0	0	0	4	16	15	26	15
BAYFIELD	653	177	2	17	1	0	0	342	86	0	12	16
BURNETT	234	200	0	1	0	X	0	7	9	0	12	5
DOUGLAS	694	375	1	11	0	X	0	282	22	0	2	1
IRON	903	4	2	20	9	X	X	456	44	15	199	154
POLK	31	23	0	0	0	X	0	8	0	0	0	0
PRICE	1099	46	10	55	35	8	2	454	116	15	133	225
RUSK	229	5	X	1	1	X	0	120	31	7	35	29
SAWYER	992	66	1	12	105	X	1	392	99	17	155	144
TAYLOR	478	9	1	19	16	2	0	202	34	2	85	108
WASHBURN	540	255	1	X	0	X	0	273	5	0	4	2
<b>TOTAL</b>	<b>6777</b>	<b>1216</b>	<b>27</b>	<b>212</b>	<b>184</b>	<b>10</b>	<b>5</b>	<b>2999</b>	<b>529</b>	<b>92</b>	<b>735</b>	<b>768</b>
<b>CENTRAL</b>												
ADAMS	358	277	0	0	0	0	0	2	3	66	6	4
CHIPPEWA	188	11	0	1	2	X	0	88	20	11	31	24
CLARK	225	32	0	1	4	0	0	44	6	92	29	17
EAU CLAIRE	102	34	0	0	0	0	0	4	7	36	14	7
JACKSON	161	135	0	0	0	X	0	1	3	12	6	4
JUNEAU	293	221	0	0	0	0	0	7	3	52	6	4
MARATHON	471	28	X	10	29	X	0	117	9	10	155	113
MARQUETTE	89	47	0	0	0	2	0	2	1	3	29	5
MONROE	83	68	0	0	0	0	0	X	2	2	7	4
PORTAGE	158	90	X	X	2	X	0	25	1	25	12	3
WAUPACA	141	68	0	X	0	1	0	46	3	2	9	12
WAUSHARA	87	78	0	0	0	0	0	3	1	2	2	1
WOOD	245	126	2	0	0	X	0	26	2	59	24	6
<b>TOTAL</b>	<b>2601</b>	<b>1215</b>	<b>2</b>	<b>12</b>	<b>37</b>	<b>3</b>	<b>0</b>	<b>365</b>	<b>61</b>	<b>372</b>	<b>330</b>	<b>204</b>
<b>SOUTHWESTERN</b>												
BUFFALO	4	4	0	0	0	0	0	0	0	0	0	0
CRAWFORD	17	0	0	0	0	0	0	3	X	12	1	1
DUNN	40	40	0	0	0	0	0	0	0	0	0	0
GRANT	53	0	0	0	0	0	0	8	1	36	4	4
IOWA	11	2	0	0	0	0	0	1	X	6	1	1
LACROSSE	13	13	0	0	0	0	0	0	0	0	0	0
LAFAYETTE	9	0	0	0	0	0	0	1	X	6	1	1
PEPIN	1	1	0	0	0	0	0	0	0	0	0	0
PIERCE	X	X	0	0	0	0	0	0	0	0	0	0
SAUK	24	18	0	0	0	0	0	0	2	X	3	1
TREMPEALEAU	30	30	0	0	0	0	0	X	0	0	0	0
VERNON	X	0	0	0	0	0	0	0	0	0	X	X
<b>TOTAL</b>	<b>202</b>	<b>108</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>13</b>	<b>3</b>	<b>60</b>	<b>10</b>	<b>8</b>
<b>SOUTHEASTERN</b>												
BROWN	5	3	0	0	0	0	0	2	0	0	0	0
COLUMBIA	39	27	0	0	0	0	0	0	X	1	9	2
DOOR	3	3	0	0	0	0	0	0	0	0	0	0
GREEN	3	3	0	0	0	0	0	0	0	0	0	0
GREEN LAKE	X	X	0	0	0	0	0	0	0	0	0	0
JEFFERSON	X	X	0	0	0	0	0	0	0	0	0	0
KENOSHA	X	0	0	0	0	0	0	X	0	0	0	0
MANITOWOC	X	0	0	0	0	0	0	X	0	0	0	0
OUTAGAMIE	4	1	0	1	0	0	0	X	1	0	1	X
WAUKESHA	15	15	0	0	0	0	0	0	X	0	X	X
<b>TOTAL</b>	<b>69</b>	<b>52</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>10</b>	<b>2</b>
<b>STATE TOTAL</b>	<b>16706</b>	<b>3572</b>	<b>195</b>	<b>753</b>	<b>525</b>	<b>25</b>	<b>12</b>	<b>6687</b>	<b>1210</b>	<b>603</b>	<b>1627</b>	<b>1497</b>

1/ INCLUDES ONLY THOSE COUNTIES THAT SUPPLIED PULPWOOD IN 1978.  
 2/ INCLUDES MENOMINEE COUNTY.  
 X=LESS THAN 50 CORDS.