

PULPWOOD PRODUCTION¹/ IN THE LAKE STATES BY COUNTY, 1985

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Abstract.--Lake States pulpwood production fell from 7.19 million cords in 1984 to 6.84 million cords in 1985. Pulpwood production is shown by county and species group in Michigan, Minnesota, and Wisconsin.

KEY WORDS: Residue, Michigan, Minnesota, Wisconsin.

Pulpwood production in the Lake States--Michigan, Minnesota, and Wisconsin--fell from 7.19 million cords in 1984 to 6.84 million cords in 1985. Wisconsin produced 2.59 million cords, Michigan produced 2.37 million cords, and Minnesota produced 1.88 million cords.

Ninety-two percent of pulpwood came from roundwood (including chips from roundwood); the remainder came from mill residue such as slabs, edgings, veneer cores, and chips from these materials. Production from softwood and hardwood residue by State was:

| <u>State</u> | <u>Softwood</u> | <u>Hardwood</u> |
|------------------------------------|-----------------|-----------------|
| (Hundred standard cords, unpeeled) | | |
| Michigan | 173 | 1,460 |
| Minnesota | 470 | 431 |
| Wisconsin | 508 | 2,416 |

Principal species harvested were aspen (3,411,300 cords), pine (902,800 cords), maple (514,600 cords), birch (304,800 cords), and balsam fir (286,600 cords).

Wisconsin imported 21 percent of the pulpwood it required, including 391,000 cords from Michigan, 105,000 cords from Minnesota, 127,000 cords from other (primarily western) States, and 16,000 cords from Canada.

Counties cutting more than 100,000 cords were Delta, Menominee, Dickinson, Iron, and Marquette in Michigan; Koochiching, St. Louis, Beltrami, Cass, and Itasca in Minnesota; and Forest, Langlade, Lincoln, Marinette, Oneida, Bayfield, Douglas, and Sawyer in Wisconsin. These 18 counties contributed 47 percent of the pulpwood produced from roundwood in the Lake States in 1985.

¹/Includes Togs, bolts, and wood residue used in manufacturing particleboard, waferboard, oriented strand board, and medium density fiberboard.

Table 1.--Lake States pulpwood production from roundwood by county and species group, 1985
(In hundred standard cords, unpeeled)

| Unit and county ^{1/} | All species | MICHIGAN | | | | | | | | | | |
|----------------------------------|----------------|---------------|--------|---------------|---------|-----------------|-------|-------|-------|-------|-------|--------------------|
| | | Species group | | | | | | | | | | |
| | | Pine | Spruce | Balsam fir | Hemlock | Tamarack | Cedar | Aspen | Birch | Oak | Maple | Other hardwoods |
| E. Upper Peninsula | | | | | | | | | | | | |
| Alger | 561 | 113 | 29 | 29 | 43 | 2 | 30 | 77 | 50 | 3 | 93 | 92 |
| Chippewa | 588 | 171 | 47 | 19 | 9 | 1 | 43 | 196 | 14 | 3 | 59 | 26 |
| Delta | 1,335 | 213 | 148 | 160 | 38 | 8 | 81 | 314 | 105 | 4 | 133 | 131 |
| Luce | 361 | 81 | 20 | 14 | 4 | X ^{2/} | 9 | 65 | 18 | 2 | 95 | 53 |
| Mackinac | 568 | 35 | 45 | 39 | 12 | 1 | 15 | 253 | 40 | 1 | 69 | 58 |
| Menominee | 1,304 | 76 | 81 | 175 | 51 | 5 | 62 | 442 | 111 | 6 | 145 | 150 |
| Schoolcraft | 961 | 322 | 76 | 58 | 34 | 4 | 81 | 95 | 75 | 3 | 111 | 102 |
| Total | 5,678 | 1,011 | 446 | 494 | 191 | 21 | 321 | 1,442 | 413 | 22 | 705 | 612 |
| W. Upper Peninsula | | | | | | | | | | | | |
| Baraga | 363 | 83 | 8 | 6 | 20 | X | 9 | 106 | 22 | 4 | 72 | 33 |
| Dickinson | 1,017 | 46 | 107 | 130 | 34 | 4 | 38 | 429 | 70 | 4 | 94 | 61 |
| Gogebic | 520 | 56 | 28 | 16 | 27 | X | X | 121 | 49 | 5 | 122 | 96 |
| Houghton | 561 | 61 | 37 | 45 | 14 | 3 | 25 | 187 | 47 | 5 | 105 | 32 |
| Iron | 1,320 | 46 | 92 | 84 | 14 | 3 | 14 | 642 | 82 | 7 | 201 | 135 |
| Keweenaw | 3 | -- | -- | -- | X | -- | -- | 2 | X | X | 1 | X |
| Marquette | 1,746 | 365 | 118 | 135 | 61 | 6 | 83 | 400 | 164 | 8 | 217 | 189 |
| Ontonagon | 776 | 15 | -- | 2 | 6 | -- | -- | 551 | 48 | 14 | 120 | 20 |
| Total | 6,306 | 672 | 390 | 418 | 176 | 16 | 169 | 2,438 | 482 | 47 | 932 | 566 |
| N. Lower Peninsula | | | | | | | | | | | | |
| Alcona | 508 | 15 | X | 1 | -- | -- | -- | 379 | 25 | 52 | 21 | 15 |
| Alpena | 387 | 24 | 1 | 2 | -- | -- | -- | 252 | 15 | 51 | 28 | 14 |
| Antrim | 12 | 2 | -- | -- | -- | -- | -- | 10 | -- | -- | -- | -- |
| Arenac | 18 | 4 | -- | -- | -- | -- | -- | 11 | -- | 1 | 2 | -- |
| Bay | 1 | X | -- | -- | -- | -- | -- | 1 | -- | -- | -- | -- |
| Benzie | 115 | 7 | -- | -- | -- | -- | -- | 72 | 5 | 3 | 21 | 7 |
| Charlevoix | 141 | 5 | -- | -- | -- | -- | -- | 88 | 2 | 4 | 40 | 2 |
| Cheboygan | 556 | 123 | 1 | 2 | -- | -- | -- | 348 | 7 | 17 | 55 | 3 |
| Clare | 458 | 9 | -- | -- | -- | -- | -- | 419 | 5 | 11 | 12 | 2 |
| Crawford | 510 | 154 | -- | -- | -- | -- | -- | 251 | 1 | 98 | 5 | 1 |
| Emmet | 172 | 49 | -- | -- | -- | -- | -- | 93 | 1 | 7 | 22 | X |
| Gladwin | 109 | 12 | -- | -- | -- | -- | -- | 79 | 2 | 6 | 9 | 1 |
| Grand Traverse | 196 | 22 | -- | -- | -- | -- | -- | 134 | 3 | 6 | 27 | 4 |
| Iosco | 109 | 27 | X | X | -- | -- | -- | 49 | 5 | 14 | 10 | 4 |
| Isabella | 159 | -- | -- | -- | -- | -- | -- | 150 | 1 | 6 | 2 | X |
| Kalkaska | 267 | 91 | -- | -- | -- | -- | -- | 156 | 1 | 7 | 10 | 2 |
| Lake | 625 | 36 | -- | -- | -- | -- | -- | 267 | 7 | 261 | 39 | 15 |
| Leelanau | 32 | 1 | -- | -- | -- | -- | -- | 28 | X | 1 | 2 | X |
| Manistee | 433 | 38 | -- | -- | -- | -- | -- | 145 | 10 | 131 | 83 | 26 |
| Mason | 508 | -- | -- | -- | -- | -- | -- | 319 | 25 | 75 | 50 | 39 |
| Mecosta | 306 | 4 | -- | -- | -- | -- | -- | 283 | X | 14 | 5 | X |
| Midland | 24 | -- | -- | -- | -- | -- | -- | 21 | 1 | 1 | X | 1 |
| Missaukee | 333 | 32 | -- | -- | -- | -- | -- | 253 | 9 | 2 | 32 | 5 |
| Montmorency | 675 | 173 | X | X | -- | -- | -- | 406 | 10 | 35 | 44 | 7 |
| Newaygo | 304 | 27 | -- | -- | -- | -- | -- | 154 | 2 | 107 | 13 | 1 |
| Oceana | 200 | 1 | -- | -- | -- | -- | -- | 156 | 1 | 36 | 5 | 1 |
| Ogemaw | 225 | 39 | -- | -- | -- | -- | -- | 136 | 5 | 25 | 17 | 3 |
| Osceola | 223 | 11 | -- | -- | -- | -- | -- | 154 | 6 | 18 | 31 | 3 |
| Oscoda | 599 | 257 | X | 1 | -- | -- | -- | 243 | 12 | 51 | 27 | 8 |
| Otsego | 516 | 223 | -- | -- | -- | -- | -- | 209 | 4 | 13 | 66 | 1 |
| Presque Isle | 362 | 17 | 3 | 9 | -- | -- | -- | 243 | 31 | 15 | 31 | 13 |
| Roscommon | 164 | 22 | X | 2 | -- | -- | -- | 128 | 2 | 9 | 1 | X |
| Wexford | 283 | 37 | -- | -- | -- | -- | -- | 121 | 6 | 42 | 60 | 17 |
| Total | 9,530 | 1,462 | 5 | 17 | -- | -- | -- | 5,758 | 204 | 1,119 | 770 | 195 |
| S. Lower Peninsula | | | | | | | | | | | | |
| Allegan | 106 | -- | -- | -- | -- | -- | -- | 18 | X | 33 | 24 | 31 |
| Barry | 46 | -- | -- | -- | -- | -- | -- | 8 | -- | 15 | 10 | 13 |
| Berrien | 6 | -- | -- | -- | -- | -- | -- | -- | -- | 4 | 1 | 1 |
| Calhoun | 30 | -- | -- | -- | -- | -- | -- | -- | -- | 30 | -- | -- |
| Cass | 3 | -- | -- | -- | -- | -- | -- | -- | -- | 3 | X | X |
| Gratiot | 2 | -- | -- | -- | -- | -- | -- | 2 | -- | -- | -- | -- |
| Ionia | 3 | -- | -- | -- | -- | -- | -- | 3 | -- | -- | -- | -- |
| Kalamazoo | 36 | -- | -- | -- | -- | -- | -- | 2 | -- | 13 | 9 | 12 |
| Kent | 23 | -- | -- | -- | -- | -- | -- | 17 | X | 5 | 1 | X |
| Montcalm | 56 | -- | -- | -- | -- | -- | -- | 49 | X | 6 | 1 | X |
| Muskegon | 202 | X | -- | -- | -- | -- | -- | 22 | 2 | 149 | 27 | 2 |
| Ottawa | 18 | X | -- | -- | -- | -- | -- | 4 | X | 7 | 3 | 4 |
| St. Joseph | 27 | -- | -- | -- | -- | -- | -- | 2 | -- | 19 | 3 | 3 |
| Van Buren | 55 | -- | -- | -- | -- | -- | -- | 5 | X | 20 | 13 | 17 |
| Washtenaw | X | X | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Total | 613 | X | -- | -- | -- | -- | -- | 132 | 2 | 304 | 92 | .83 |
| State total | 22,127 | 3,145 | 841 | 929 | 367 | 37 | 490 | 9,770 | 1,101 | 1,492 | 2,499 | 1,456 |

^{1/}Includes only those counties that supplied pulpwood in 1985.

^{2/}X is less than 50 cords.

(Table 1 continued)

MINNESOTA

| Unit and county ^{1/} | All species | Species group | | | | | | | | | | |
|----------------------------------|----------------|---------------|--------|---------------|---------|----------|-------|--------|-------|-----|-------|--------------------|
| | | Pine | Spruce | Balsam fir | Hemlock | Tamarack | Cedar | Aspen | Birch | Oak | Maple | Other hardwoods |
| Aspen-Birch | | | | | | | | | | | | |
| Carlton | 268 | 10 | 21 | 20 | -- | 2 | -- | 193 | -- | -- | -- | 22 |
| Cook | 565 | 51 | 146 | 133 | -- | -- | -- | 234 | 1 | -- | X | -- |
| Koochiching | 1,931 | 243 | 289 | 202 | -- | 64 | -- | 1,086 | 2 | -- | 2 | 43 |
| Lake | 927 | 51 | 117 | 86 | -- | X | -- | 659 | X | -- | -- | 14 |
| St. Louis | 4,121 | 351 | 258 | 248 | -- | 7 | -- | 3,070 | 3 | -- | -- | 184 |
| Total | 7,812 | 706 | 831 | 689 | -- | 73 | -- | 5,242 | 6 | -- | 2 | 263 |
| Northern Pine | | | | | | | | | | | | |
| Aitkin | 573 | 3 | 16 | 4 | -- | -- | -- | 495 | -- | -- | -- | 55 |
| Becker | 220 | 10 | -- | -- | -- | -- | -- | 205 | -- | -- | -- | 5 |
| Beltrami | 1,473 | 54 | 57 | 108 | -- | 2 | -- | 1,233 | 2 | -- | 1 | 16 |
| Cass | 1,278 | 100 | 10 | 36 | -- | 2 | -- | 1,099 | 5 | -- | 1 | 25 |
| Clearwater | 694 | 12 | 13 | 15 | -- | -- | -- | 647 | X | -- | -- | 7 |
| Crow Wing | 381 | 47 | 1 | X | -- | -- | -- | 326 | -- | -- | -- | 7 |
| Hubbard | 993 | 36 | 5 | 4 | -- | -- | -- | 933 | -- | -- | -- | 15 |
| Itasca | 3,431 | 192 | 89 | 350 | -- | 1 | -- | 2,754 | X | -- | -- | 45 |
| Lake of the Woods | 203 | 88 | 66 | 8 | -- | 12 | -- | 29 | -- | -- | -- | X |
| Mahnomen | 100 | 2 | -- | -- | -- | -- | -- | 97 | -- | -- | -- | 1 |
| Roseau | 57 | 36 | 19 | 2 | -- | X | -- | X | -- | -- | -- | -- |
| Wadena | 106 | 56 | -- | -- | -- | -- | -- | 49 | -- | -- | -- | 1 |
| Total | 9,509 | 636 | 276 | 527 | -- | 17 | -- | 7,867 | 7 | -- | 2 | 177 |
| Central Hardwood | | | | | | | | | | | | |
| Hennepin | X | X | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Kanabec | 27 | -- | -- | -- | -- | -- | -- | 27 | -- | -- | -- | -- |
| Mille Lacs | 203 | 1 | 2 | 2 | -- | -- | -- | 197 | -- | -- | -- | 1 |
| Morrison | 70 | 1 | -- | -- | -- | -- | -- | 69 | -- | -- | -- | X |
| Pine | 248 | 9 | -- | 1 | -- | -- | -- | 205 | X | -- | -- | 33 |
| Sherburne | 17 | 17 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Todd | 7 | 1 | -- | -- | -- | -- | -- | 6 | -- | -- | -- | X |
| Total | 572 | 29 | 2 | 3 | -- | -- | -- | 504 | X | -- | -- | 34 |
| Prairie | | | | | | | | | | | | |
| Sibley | X | X | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Total | X | X | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| State total | 17,893 | 1,371 | 1,109 | 1,219 | -- | 90 | -- | 13,613 | 13 | -- | 4 | 474 |

(Table 1 continued on next page)

^{1/} Includes only those counties that supplied pulpwood in 1985.^{2/} X is less than 50 cords.

(Table 1 continued)

WISCONSIN

| Unit and county ^{1/} | All species | Species group | | | | | | | | | | |
|----------------------------------|----------------|---------------|--------|---------------|---------|----------|-------|--------|-------|-----|-------|--------------------|
| | | Pine | Spruce | Balsam fir | Hemlock | Tamarack | Cedar | Aspen | Birch | Oak | Maple | Other hardwoods |
| Northeastern | | | | | | | | | | | | |
| Florence | 761 | 53 | 42 | 83 | 31 | 2 | -- | 319 | 60 | 12 | 119 | 40 |
| Forest | 1,212 | 98 | 81 | 123 | 31 | 1 | -- | 389 | 143 | 10 | 232 | 104 |
| Langlade | 1,143 | 70 | 10 | 41 | 7 | -- | -- | 408 | 130 | 2 | 344 | 131 |
| Lincoln | 1,027 | 79 | 12 | 40 | 12 | 1 | -- | 478 | 56 | -- | 271 | 78 |
| Marinette | 1,322 | 159 | 27 | 139 | 3 | 3 | -- | 786 | 46 | 12 | 98 | 49 |
| Menominee | 496 | 85 | -- | -- | 212 | -- | -- | 92 | 15 | 7 | 44 | 41 |
| Oconto | 458 | 108 | 2 | 18 | 2 | X | -- | 277 | 9 | 7 | 25 | 10 |
| Oneida | 1,505 | 274 | 60 | 75 | 10 | 4 | -- | 628 | 222 | 2 | 170 | 60 |
| Shawano | 263 | 41 | X | X | 8 | -- | -- | 143 | 8 | 9 | 34 | 20 |
| Vilas | 937 | 124 | 26 | 75 | 8 | 1 | -- | 445 | 133 | 3 | 103 | 19 |
| Total | 9,124 | 1,091 | 260 | 594 | 324 | 12 | -- | 3,965 | 822 | 64 | 1,440 | 552 |
| Northwestern | | | | | | | | | | | | |
| Ashland | 748 | 34 | 53 | 29 | 1 | 2 | -- | 341 | 99 | 5 | 131 | 53 |
| Barron | 190 | 12 | -- | -- | -- | -- | -- | 164 | 10 | 2 | 1 | 1 |
| Bayfield | 1,935 | 275 | -- | 8 | -- | 1 | -- | 1,314 | 219 | 16 | 75 | 27 |
| Burnett | 495 | 196 | X | -- | -- | -- | -- | 291 | 2 | 1 | 2 | 3 |
| Douglas | 1,266 | 407 | 2 | 3 | -- | X | -- | 752 | 74 | -- | 13 | 15 |
| Iron | 537 | 17 | 2 | 6 | 4 | -- | -- | 313 | 96 | 3 | 54 | 42 |
| Polk | 67 | 23 | -- | -- | -- | -- | -- | 33 | 1 | 6 | 2 | 2 |
| Price | 978 | 41 | 15 | 28 | 6 | X | -- | 386 | 173 | 11 | 203 | 115 |
| Rusk | 609 | 10 | X | 1 | 3 | -- | -- | 340 | 68 | 35 | 73 | 79 |
| Sawyer | 1,108 | 56 | 18 | 10 | 2 | X | -- | 692 | 151 | 10 | 116 | 53 |
| Taylor | 772 | 34 | 6 | 31 | 17 | X | -- | 296 | 54 | 3 | 272 | 59 |
| Washburn | 842 | 126 | -- | X | -- | -- | -- | 635 | 37 | 1 | 26 | 17 |
| Total | 9,547 | 1,231 | 96 | 116 | 33 | 3 | -- | 5,557 | 984 | 93 | 968 | 466 |
| Central | | | | | | | | | | | | |
| Adams | 387 | 359 | X | -- | -- | -- | -- | 8 | 1 | 18 | 1 | X |
| Chippewa | 254 | 17 | X | 1 | 1 | X | -- | 115 | 41 | 15 | 37 | 27 |
| Clark | 466 | 45 | -- | X | X | X | -- | 223 | 36 | 54 | 57 | 51 |
| Eau Claire | 158 | 99 | -- | X | -- | -- | -- | 43 | 2 | 5 | 6 | 3 |
| Jackson | 389 | 253 | X | X | X | 1 | -- | 76 | 6 | 39 | 12 | 2 |
| Juneau | 344 | 228 | -- | -- | -- | -- | -- | 41 | 5 | 61 | 7 | 2 |
| Marathon | 651 | 106 | 3 | 6 | 5 | -- | -- | 351 | 16 | 9 | 72 | 83 |
| Marquette | 124 | 87 | -- | X | -- | -- | -- | 10 | 7 | 14 | 5 | 1 |
| Monroe | 127 | 108 | X | -- | -- | -- | -- | 10 | 2 | 4 | 2 | 1 |
| Portage | 234 | 140 | 2 | 1 | 1 | 1 | -- | 51 | 4 | 25 | 5 | 4 |
| Waupaca | 196 | 74 | 1 | X | 1 | -- | -- | 90 | 2 | 7 | 13 | 8 |
| Waushara | 204 | 193 | -- | -- | -- | -- | -- | 7 | X | 4 | X | -- |
| Wood | 316 | 113 | 1 | -- | -- | X | -- | 144 | 4 | 36 | 13 | 5 |
| Total | 3,850 | 1,822 | 7 | 8 | 8 | 2 | -- | 1,169 | 126 | 291 | 230 | 187 |
| Southwestern | | | | | | | | | | | | |
| Buffalo | 19 | 19 | -- | -- | -- | -- | -- | -- | X | X | X | X |
| Dunn | 117 | 98 | -- | -- | -- | -- | -- | 7 | 1 | 6 | 3 | 2 |
| Grant | X | X | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Iowa | 1 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| La Crosse | 12 | 12 | -- | -- | X | -- | -- | -- | -- | -- | -- | -- |
| Pepin | 5 | 4 | X | -- | -- | -- | -- | 1 | X | -- | X | X |
| Pierce | 2 | 1 | 1 | -- | -- | -- | -- | -- | X | X | X | X |
| Richland | 3 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| St. Croix | 1 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Sauk | 85 | 85 | -- | X | -- | -- | -- | -- | -- | -- | -- | -- |
| Trempealeau | 41 | 41 | X | -- | -- | -- | -- | X | X | X | X | X |
| Total | 286 | 265 | 1 | X | X | -- | -- | 8 | 1 | 6 | 3 | 2 |
| Southeastern | | | | | | | | | | | | |
| Brown | 6 | 1 | -- | -- | -- | -- | -- | 5 | -- | -- | -- | -- |
| Calumet | 2 | -- | -- | -- | -- | -- | -- | 2 | -- | -- | -- | -- |
| Columbia | 78 | 66 | -- | -- | -- | -- | -- | -- | 1 | 8 | 2 | 1 |
| Door | 12 | X | -- | -- | -- | -- | -- | 12 | -- | -- | -- | -- |
| Fond du Lac | 5 | 5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Green lake | 8 | 8 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Kewaunee | 2 | 1 | -- | -- | X | -- | -- | 1 | -- | -- | -- | -- |
| Outagamie | 14 | 3 | X | -- | -- | -- | -- | 11 | -- | X | X | X |
| Ozaukee | X | X | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Rock | X | X | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Sheboygan | 6 | 6 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Walworth | X | X | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Waukesha | 13 | 13 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Total | 146 | 103 | X | -- | X | -- | -- | 31 | 1 | 8 | 2 | 1 |
| State total | 22,953 | 4,512 | 364 | 718 | 365 | 17 | -- | 10,730 | 1,934 | 462 | 2,643 | 1,208 |

^{1/} Includes only those counties that supplied pulpwood in 1985.^{2/} X is less than 50 cords.