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# Pulpwood Production in the Lake States, 1991

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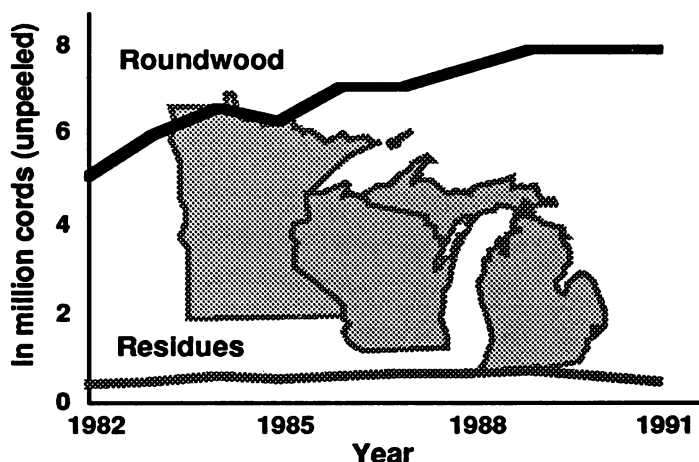
**ABSTRACT.**—Pulpwood production in the Lake States increased to 8.6 million cords in 1991. Michigan, Minnesota, and Wisconsin pulpwood production is shown by county and species group.

**KEY WORDS:** Roundwood, residue, Minnesota, Michigan, Wisconsin.

Pulpwood production<sup>2</sup> in the Lake States—Michigan, Minnesota, and Wisconsin—increased to 8.55 million cords in 1991 from 8.42 million cords in 1990. Wisconsin produced 3.15 million cords, Michigan produced 3.35 million cords, and Minnesota produced 2.05 million cords.

Major species harvested were aspen (3.9 million cords), pine (1.2 million cords), maple (1 million cords), birch (510 thousand cords), and other hardwoods (403 thousand cords).

Counties harvesting more than 130 thousand cords each were Delta, Menominee, Dickinson, Iron, Marquette, and Ontonagon in Michigan; Koochiching, St. Louis, Beltrami, Cass, and Itasca in Minnesota; and Marinette, Oneida, Vilas, Ashland, Bayfield, and Sawyer in Wisconsin. These 17 counties contributed 43 percent of the pulpwood production from roundwood in the Lake States in 1991.



Ninety-two percent of the pulpwood produced 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:

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<sup>2</sup> Includes logs, bolts, and wood residue used in manufacturing particleboard, waferboard, oriented strand board, and medium density fiberboard.

## Residues

| State     | Softwood<br>(Hundred standard cords, unpeeled) | Hardwood |
|-----------|--|----------|
| Michigan  | 760  | 1,764    |
| Minnesota | 300  | 557      |
| Wisconsin | 937  | 2,680    |

## Whole Tree Chips

Whole tree chip (WTC) production in the Lake States was 512 thousand cords, 1 percent less than in 1990 and 6 percent of total pulpwood output in 1991. Michigan was the major WTC producer with 391 thousand cords, followed by Minnesota with 82 thousand cords and Wisconsin with 40 thousand cords.

Table 1.--Lake States pulpwood production from roundwood by county and species, 1991  
(In hundred standard cords, unpeeled)

| MINNESOTA               |                |              |              |               |              |               |           |               |            |           |            |                    |
|-------------------------|----------------|--------------|--------------|---------------|--------------|---------------|-----------|---------------|------------|-----------|------------|--------------------|
| Unit 1/<br>and county   | All<br>species | Pine         | Spruce       | Balsam<br>fir | Hem-<br>lock | Tam-<br>arack | Cedar     | Aspen         | Birch      | Oak       | Maple      | Other<br>hardwoods |
| <b>ASPEN-BIRCH</b>      |                |              |              |               |              |               |           |               |            |           |            |                    |
| Carlton                 | 430            | 66           | 25           | 111           | --           | (2)           | --        | 140           | 34         | --        | 18         | 36                 |
| Cook                    | 441            | (2)          | 74           | 62            | --           | (2)           | --        | 304           | --         | --        | --         | 1                  |
| Koochiching             | 3,127          | 75           | 422          | 233           | --           | 19            | --        | 2,209         | --         | --        | --         | 169                |
| Lake                    | 835            | 26           | 121          | 102           | --           | 1             | --        | 551           | 24         | --        | --         | 10                 |
| St. Louis               | 4,956          | 381          | 455          | 556           | --           | 9             | --        | 3,228         | 41         | --        | 51         | 235                |
| <b>Total</b>            | <b>9,789</b>   | <b>548</b>   | <b>1,097</b> | <b>1,064</b>  | <b>--</b>    | <b>29</b>     | <b>--</b> | <b>6,432</b>  | <b>99</b>  | <b>--</b> | <b>69</b>  | <b>451</b>         |
| <b>NORTHERN PINE</b>    |                |              |              |               |              |               |           |               |            |           |            |                    |
| Aitkin                  | 858            | 8            | 9            | 58            | --           | (2)           | --        | 664           | --         | --        | 34         | 85                 |
| Becker                  | 811            | 8            | (2)          | 7             | --           | --            | --        | 792           | --         | --        | --         | 4                  |
| Beltrami                | 1,772          | 147          | 39           | 128           | --           | 1             | --        | 1,435         | --         | --        | --         | 22                 |
| Cass                    | 1,874          | 133          | 17           | 68            | --           | 2             | --        | 1,640         | 2          | --        | --         | 12                 |
| Clearwater              | 660            | 44           | 5            | 23            | --           | --            | --        | 574           | --         | --        | --         | 14                 |
| Crow Wing               | 661            | 40           | (2)          | 4             | --           | 1             | --        | 613           | --         | --        | --         | 3                  |
| Hubbard                 | 832            | 70           | 1            | 5             | --           | --            | --        | 752           | --         | --        | --         | 4                  |
| Itasca                  | 3,643          | 124          | 206          | 586           | --           | 3             | --        | 2,615         | 11         | --        | 55         | 43                 |
| Lake of the Woods       | 420            | 200          | 20           | 24            | --           | --            | --        | 173           | --         | --        | --         | 3                  |
| Mahnomen                | 194            | --           | --           | --            | --           | --            | --        | 193           | --         | --        | --         | 1                  |
| Roseau                  | 221            | 162          | 7            | 1             | --           | --            | --        | 48            | --         | --        | --         | 3                  |
| Wadena                  | 147            | 47           | --           | --            | --           | --            | --        | 87            | 12         | --        | --         | 1                  |
| <b>Total</b>            | <b>12,093</b>  | <b>983</b>   | <b>304</b>   | <b>904</b>    | <b>--</b>    | <b>7</b>      | <b>--</b> | <b>9,586</b>  | <b>25</b>  | <b>--</b> | <b>89</b>  | <b>195</b>         |
| <b>CENTRAL HARDWOOD</b> |                |              |              |               |              |               |           |               |            |           |            |                    |
| Chisago                 | 1              | --           | --           | --            | --           | --            | --        | 1             | --         | --        | --         | --                 |
| Isanti                  | (2)            | --           | --           | --            | --           | --            | --        | (2)           | --         | --        | --         | --                 |
| Kanabec                 | 88             | --           | --           | --            | --           | --            | --        | 88            | --         | --        | --         | --                 |
| Mille Lacs              | 279            | 33           | --           | (2)           | --           | --            | --        | 246           | --         | --        | --         | (2)                |
| Morrison                | 31             | 1            | 2            | --            | --           | --            | --        | 28            | --         | --        | --         | (2)                |
| Otter Tail              | 27             | 1            | --           | --            | --           | --            | --        | 26            | --         | --        | --         | (2)                |
| Pine                    | 601            | 46           | 4            | 1             | --           | (2)           | --        | 441           | 12         | --        | 48         | 49                 |
| Sherburne               | 20             | 20           | --           | --            | --           | --            | --        | --            | --         | --        | --         | --                 |
| Todd                    | 8              | 1            | --           | --            | --           | --            | --        | 7             | --         | --        | --         | --                 |
| <b>Total</b>            | <b>1,055</b>   | <b>102</b>   | <b>6</b>     | <b>1</b>      | <b>--</b>    | <b>--</b>     | <b>--</b> | <b>837</b>    | <b>12</b>  | <b>--</b> | <b>48</b>  | <b>49</b>          |
| <b>PRAIRIE</b>          |                |              |              |               |              |               |           |               |            |           |            |                    |
| Marshall                | 16             | --           | --           | --            | --           | --            | --        | 16            | --         | --        | --         | --                 |
| Norman                  | 2              | --           | --           | --            | --           | --            | --        | 2             | --         | --        | --         | --                 |
| Pennington              | 13             | --           | --           | --            | --           | --            | --        | 13            | --         | --        | --         | --                 |
| Polk                    | 21             | --           | --           | --            | --           | --            | --        | 21            | --         | --        | --         | --                 |
| Red Lake                | 73             | --           | --           | --            | --           | --            | --        | 73            | --         | --        | --         | (2)                |
| <b>Total</b>            | <b>125</b>     | <b>--</b>    | <b>--</b>    | <b>--</b>     | <b>--</b>    | <b>--</b>     | <b>--</b> | <b>125</b>    | <b>--</b>  | <b>--</b> | <b>--</b>  | <b>(2)</b>         |
| <b>STATE TOTAL</b>      | <b>23,062</b>  | <b>1,633</b> | <b>1,407</b> | <b>1,969</b>  | <b>--</b>    | <b>36</b>     | <b>--</b> | <b>16,980</b> | <b>136</b> | <b>--</b> | <b>206</b> | <b>695</b>         |

(Table 1 continued on next page)

(Table 1. continued)

| MICHIGAN                  |                |              |            |               |              |               |           |               |              |              |              |                    |
|---------------------------|----------------|--------------|------------|---------------|--------------|---------------|-----------|---------------|--------------|--------------|--------------|--------------------|
| Unit 1/<br>and county     | All<br>species | Pine         | Spruce     | Balsam<br>fir | Hem-<br>lock | Tam-<br>arack | Cedar     | Aspen         | Birch        | Oak          | Maple        | Other<br>hardwoods |
| <b>E. UPPER PENINSULA</b> |                |              |            |               |              |               |           |               |              |              |              |                    |
| Alger                     | 1,233          | 118          | 19         | 94            | 52           | 8             | 7         | 264           | 75           | 16           | 451          | 129                |
| Chippewa                  | 781            | 145          | 29         | 61            | 29           | 4             | 5         | 256           | 39           | 4            | 136          | 73                 |
| Delta                     | 1,617          | 292          | 30         | 131           | 55           | 10            | 10        | 485           | 160          | 11           | 313          | 120                |
| Luce                      | 535            | 114          | 18         | 49            | 20           | 4             | 4         | 108           | 46           | 4            | 126          | 42                 |
| Mackinac                  | 906            | 103          | 39         | 66            | 27           | 4             | 5         | 266           | 78           | 8            | 200          | 110                |
| Menominee                 | 1,401          | 122          | 51         | 100           | 39           | 8             | 6         | 477           | 198          | 10           | 294          | 96                 |
| Schoolcraft               | 1,124          | 196          | 38         | 129           | 53           | 11            | 10        | 240           | 61           | 10           | 279          | 97                 |
| <b>Total</b>              | <b>7,597</b>   | <b>1,090</b> | <b>224</b> | <b>630</b>    | <b>275</b>   | <b>49</b>     | <b>47</b> | <b>2,096</b>  | <b>657</b>   | <b>63</b>    | <b>1,799</b> | <b>667</b>         |
| <b>W. UPPER PENINSULA</b> |                |              |            |               |              |               |           |               |              |              |              |                    |
| Baraga                    | 612            | 19           | 8          | 16            | 17           | 1             | 1         | 233           | 45           | 7            | 217          | 48                 |
| Dickinson                 | 1,557          | 177          | 54         | 94            | 37           | 9             | 7         | 689           | 156          | 10           | 233          | 91                 |
| Gogebic                   | 967            | 25           | 15         | 16            | 6            | 1             | (2)       | 251           | 41           | 22           | 503          | 87                 |
| Houghton                  | 1,031          | 72           | 31         | 21            | 26           | 2             | 1         | 233           | 87           | 16           | 449          | 93                 |
| Iron                      | 1,597          | 46           | 126        | 61            | 15           | 6             | 2         | 575           | 140          | 18           | 492          | 116                |
| Keweenaw                  | 109            | 29           | 2          | (2)           | --           | --            | --        | 18            | 7            | 1            | 46           | 6                  |
| Marquette                 | 3,065          | 502          | 154        | 162           | 96           | 17            | 12        | 893           | 279          | 25           | 695          | 230                |
| Ontonagon                 | 1,518          | 8            | 12         | 4             | 2            | --            | --        | 784           | 67           | 26           | 424          | 191                |
| <b>Total</b>              | <b>10,456</b>  | <b>878</b>   | <b>402</b> | <b>374</b>    | <b>199</b>   | <b>36</b>     | <b>23</b> | <b>3,676</b>  | <b>822</b>   | <b>125</b>   | <b>3,059</b> | <b>862</b>         |
| <b>N. LOWER PENINSULA</b> |                |              |            |               |              |               |           |               |              |              |              |                    |
| Alcona                    | 497            | 57           | --         | (2)           | --           | --            | --        | 312           | 45           | 21           | 43           | 19                 |
| Alpena                    | 263            | 6            | (2)        | 2             | --           | --            | --        | 180           | 23           | 1            | 39           | 12                 |
| Antrim                    | 116            | 2            | --         | --            | --           | --            | --        | 74            | 7            | --           | 29           | 4                  |
| Arenac                    | 102            | 2            | --         | --            | --           | --            | --        | 61            | 12           | 7            | 15           | 5                  |
| Bay                       | (2)            | (2)          | --         | --            | --           | --            | --        | (2)           | --           | --           | --           | --                 |
| Benzie                    | 207            | 2            | --         | --            | --           | --            | --        | 107           | 4            | 7            | 64           | 23                 |
| Charlevoix                | 24             | (2)          | (2)        | 1             | (2)          | --            | (2)       | 12            | 4            | --           | 7            | (2)                |
| Cheboygan                 | 564            | 60           | 3          | 12            | (2)          | --            | 1         | 353           | 35           | 9            | 81           | 10                 |
| Clare                     | 426            | 22           | --         | --            | --           | --            | --        | 311           | 6            | 27           | 53           | 7                  |
| Crawford                  | 590            | 269          | --         | --            | --           | --            | --        | 177           | 17           | 65           | 58           | 4                  |
| Emmet                     | 125            | 29           | --         | --            | --           | --            | --        | 51            | 10           | (2)          | 32           | 3                  |
| Gladwin                   | 143            | (2)          | --         | --            | --           | --            | --        | 119           | 4            | 8            | 11           | 1                  |
| Grand Traverse            | 120            | 10           | --         | --            | --           | --            | --        | 85            | 3            | 6            | 11           | 5                  |
| Iosco                     | 120            | 15           | --         | --            | --           | --            | --        | 76            | 9            | 5            | 11           | 4                  |
| Isabella                  | 117            | (2)          | --         | --            | --           | --            | --        | 104           | 1            | 1            | 9            | 2                  |
| Kalkaska                  | 312            | 83           | --         | --            | --           | --            | --        | 116           | 5            | 24           | 82           | 2                  |
| Lake                      | 647            | 55           | --         | --            | --           | --            | --        | 300           | 8            | 160          | 99           | 25                 |
| Leelanau                  | 30             | --           | --         | --            | --           | --            | --        | 1             | 1            | 7            | 10           | 11                 |
| Manistee                  | 447            | 10           | --         | --            | --           | --            | --        | 217           | 9            | 67           | 94           | 50                 |
| Mason                     | 353            | 3            | --         | --            | --           | --            | --        | 210           | 5            | 67           | 47           | 21                 |
| Mecosta                   | 259            | 3            | --         | --            | --           | --            | --        | 159           | 5            | 58           | 26           | 8                  |
| Midland                   | 266            | 2            | --         | --            | --           | --            | --        | 224           | 8            | 10           | 19           | 3                  |
| Missaukee                 | 428            | 22           | --         | --            | --           | --            | --        | 295           | 4            | 28           | 70           | 9                  |
| Montmorency               | 394            | 40           | --         | --            | --           | --            | --        | 220           | 36           | 26           | 60           | 12                 |
| Newaygo                   | 266            | 6            | --         | --            | --           | --            | --        | 161           | 3            | 71           | 21           | 4                  |
| Oceana                    | 164            | --           | --         | --            | --           | --            | --        | 86            | 1            | 67           | 8            | 2                  |
| Ogemaw                    | 162            | 20           | --         | --            | --           | --            | --        | 99            | 14           | 5            | 21           | 3                  |
| Osceola                   | 312            | 3            | --         | --            | --           | --            | --        | 214           | 9            | 24           | 50           | 12                 |
| Oscoda                    | 379            | 143          | --         | --            | --           | --            | --        | 151           | 21           | 27           | 29           | 8                  |
| Otsego                    | 390            | 71           | 1          | (2)           | --           | --            | (2)       | 119           | 27           | (2)          | 153          | 19                 |
| Presque Isle              | 439            | 38           | 7          | 13            | (2)          | --            | (2)       | 238           | 55           | 6            | 60           | 22                 |
| Roscommon                 | 295            | 98           | 1          | 3             | (2)          | --            | (2)       | 143           | 8            | 17           | 23           | 2                  |
| Wexford                   | 265            | 54           | --         | --            | --           | --            | --        | 125           | 3            | 23           | 39           | 21                 |
| <b>Total</b>              | <b>9,222</b>   | <b>1,125</b> | <b>12</b>  | <b>31</b>     | <b>(2)</b>   | <b>--</b>     | <b>1</b>  | <b>5,100</b>  | <b>402</b>   | <b>844</b>   | <b>1,374</b> | <b>333</b>         |
| <b>S. LOWER PENINSULA</b> |                |              |            |               |              |               |           |               |              |              |              |                    |
| Allegan                   | 105            | --           | --         | --            | --           | --            | --        | 12            | --           | 65           | 28           | --                 |
| Barny                     | 10             | --           | --         | --            | --           | --            | --        | 4             | (2)          | 4            | 2            | (2)                |
| Cass                      | 5              | --           | --         | --            | --           | --            | --        | --            | --           | 3            | 2            | --                 |
| Gratiot                   | 3              | --           | --         | --            | --           | --            | --        | 2             | (2)          | --           | 1            | (2)                |
| Kalamazoo                 | 1              | --           | --         | --            | --           | --            | --        | --            | --           | 1            | (2)          | --                 |
| Kent                      | 3              | --           | --         | --            | --           | --            | --        | 2             | --           | 1            | --           | --                 |
| Montcalm                  | 42             | 1            | --         | --            | --           | --            | --        | 22            | (2)          | 18           | 1            | (2)                |
| Muskegon                  | 102            | --           | --         | --            | --           | --            | --        | 17            | (2)          | 78           | 6            | 1                  |
| Ottawa                    | 27             | --           | --         | --            | --           | --            | --        | 1             | --           | 22           | 4            | (2)                |
| St. Joseph                | 23             | --           | --         | --            | --           | --            | --        | --            | --           | 15           | 8            | --                 |
| Van Buren                 | 29             | --           | --         | --            | --           | --            | --        | --            | --           | 19           | 10           | --                 |
| <b>Total</b>              | <b>350</b>     | <b>1</b>     | <b>--</b>  | <b>--</b>     | <b>--</b>    | <b>--</b>     | <b>--</b> | <b>60</b>     | <b>(2)</b>   | <b>226</b>   | <b>62</b>    | <b>1</b>           |
| <b>STATE TOTAL</b>        | <b>27,625</b>  | <b>3,094</b> | <b>638</b> | <b>1,035</b>  | <b>474</b>   | <b>85</b>     | <b>71</b> | <b>10,932</b> | <b>1,881</b> | <b>1,258</b> | <b>6,294</b> | <b>1,863</b>       |

(Table 1 continued on next page)

(Table 1 continued)

## WISCONSIN

| Unit /<br>and county     | All<br>species | Pine          | Spruce       | Balsam<br>fir | Hem-<br>lock | Tam-<br>arack | Cedar      | Aspen         | Birch        | Oak          | Maple         | Other<br>hardwoods |
|--------------------------|----------------|---------------|--------------|---------------|--------------|---------------|------------|---------------|--------------|--------------|---------------|--------------------|
| <b>NORTHEAST</b>         |                |               |              |               |              |               |            |               |              |              |               |                    |
| Florence                 | 873            | 50            | 15           | 37            | 29           | 1             | (2)        | 352           | 135          | 10           | 198           | 46                 |
| Forest                   | 1,171          | 83            | 36           | 51            | 16           | 4             | --         | 399           | 176          | 41           | 274           | 91                 |
| Langlade                 | 1,023          | 48            | 11           | 49            | 15           | 2             | --         | 524           | 65           | 32           | 181           | 96                 |
| Lincoln                  | 1,039          | 81            | 7            | 28            | 7            | 3             | --         | 486           | 81           | 48           | 169           | 129                |
| Marinette                | 1,670          | 435           | 20           | 39            | 8            | 5             | (2)        | 677           | 146          | 42           | 250           | 48                 |
| Menominee                | 523            | 59            | 1            | 6             | 156          | (2)           | (2)        | 154           | 27           | 3            | 98            | 19                 |
| Oconto                   | 748            | 182           | 2            | 5             | 2            | --            | --         | 322           | 72           | 8            | 131           | 24                 |
| Oneida                   | 1,786          | 268           | 47           | 63            | 8            | 11            | --         | 597           | 269          | 72           | 300           | 151                |
| Shawano                  | 218            | 36            | 1            | 1             | 13           | --            | --         | 65            | 18           | 11           | 61            | 12                 |
| Vilas                    | 1,495          | 205           | 26           | 34            | 3            | 1             | --         | 567           | 377          | 26           | 170           | 86                 |
| <b>Total</b>             | <b>10,546</b>  | <b>1,447</b>  | <b>166</b>   | <b>313</b>    | <b>257</b>   | <b>27</b>     | <b>(2)</b> | <b>4,143</b>  | <b>1,366</b> | <b>293</b>   | <b>1,832</b>  | <b>702</b>         |
| <b>NORTHWEST</b>         |                |               |              |               |              |               |            |               |              |              |               |                    |
| Ashland                  | 1,394          | 652           | 40           | 52            | 2            | 3             | --         | 296           | 81           | 62           | 152           | 54                 |
| Barron                   | 234            | 24            | 1            | (2)           | (2)          | --            | --         | 150           | 30           | 4            | 18            | 7                  |
| Bayfield                 | 1,926          | 643           | 11           | 16            | 1            | 1             | --         | 902           | 203          | 15           | 113           | 21                 |
| Burnett                  | 627            | 282           | (2)          | (2)           | --           | --            | --         | 301           | 21           | 1            | 18            | 4                  |
| Douglas                  | 1,133          | 429           | 15           | 78            | --           | 1             | --         | 416           | 101          | 2            | 88            | 3                  |
| Iron                     | 1,204          | 63            | 26           | 72            | 21           | 5             | 2          | 605           | 83           | 34           | 211           | 82                 |
| Polk                     | 176            | 45            | 1            | (2)           | 1            | --            | --         | 117           | 3            | 1            | 6             | 2                  |
| Price                    | 1,129          | 85            | 23           | 52            | 10           | 9             | --         | 517           | 118          | 45           | 165           | 105                |
| Rusk                     | 791            | 25            | 6            | 2             | 2            | 9             | --         | 325           | 112          | 44           | 191           | 75                 |
| Sawyer                   | 1,316          | 98            | 14           | 23            | 3            | 3             | --         | 672           | 176          | 38           | 195           | 94                 |
| Taylor                   | 758            | 12            | 6            | 26            | 13           | 2             | --         | 390           | 62           | 20           | 135           | 92                 |
| Washburn                 | 814            | 251           | 2            | 3             | --           | 1             | --         | 441           | 49           | 4            | 40            | 23                 |
| <b>Total</b>             | <b>11,502</b>  | <b>2,609</b>  | <b>145</b>   | <b>324</b>    | <b>53</b>    | <b>34</b>     | <b>2</b>   | <b>5,132</b>  | <b>1,039</b> | <b>270</b>   | <b>1,332</b>  | <b>562</b>         |
| <b>CENTRAL</b>           |                |               |              |               |              |               |            |               |              |              |               |                    |
| Adams                    | 235            | 179           | (2)          | --            | --           | --            | --         | 18            | 9            | 4            | 17            | 8                  |
| Chippewa                 | 460            | 26            | (2)          | 1             | 1            | 1             | --         | 282           | 34           | 21           | 61            | 33                 |
| Clark                    | 800            | 78            | (2)          | (2)           | (2)          | 1             | --         | 416           | 81           | 28           | 147           | 49                 |
| Eau Claire               | 307            | 113           | --           | --            | --           | --            | --         | 111           | 23           | 8            | 39            | 13                 |
| Jackson                  | 772            | 481           | 1            | --            | --           | (2)           | --         | 134           | 40           | 16           | 83            | 17                 |
| Juneau                   | 375            | 323           | --           | (2)           | --           | --            | --         | 5             | 10           | 5            | 27            | 5                  |
| Marathon                 | 618            | 97            | 2            | 3             | 8            | --            | --         | 305           | 29           | 22           | 108           | 44                 |
| Marquette                | 118            | 106           | (2)          | --            | --           | (2)           | --         | (2)           | 3            | 1            | 6             | 2                  |
| Monroe                   | 249            | 204           | 1            | --            | --           | (2)           | --         | 10            | 10           | 3            | 16            | 5                  |
| Portage                  | 265            | 170           | 1            | (2)           | 6            | (2)           | --         | 43            | 9            | 5            | 22            | 9                  |
| Waupaca                  | 239            | 134           | --           | (2)           | 2            | (2)           | --         | 66            | 4            | 5            | 25            | 3                  |
| Wausara                  | 248            | 234           | 1            | (2)           | --           | --            | --         | 4             | 2            | 2            | 4             | 1                  |
| Wood                     | 268            | 116           | 1            | --            | --           | --            | --         | 91            | 11           | 8            | 33            | 8                  |
| <b>Total</b>             | <b>4,954</b>   | <b>2,261</b>  | <b>7</b>     | <b>4</b>      | <b>17</b>    | <b>2</b>      | <b>--</b>  | <b>1,485</b>  | <b>265</b>   | <b>128</b>   | <b>588</b>    | <b>197</b>         |
| <b>SOUTHWEST</b>         |                |               |              |               |              |               |            |               |              |              |               |                    |
| Buffalo                  | 38             | 37            | 1            | --            | --           | --            | --         | --            | --           | --           | --            | --                 |
| Crawford                 | 1              | 1             | --           | --            | --           | --            | --         | --            | --           | --           | --            | --                 |
| Dunn                     | 215            | 135           | (2)          | --            | --           | --            | --         | 63            | 4            | 2            | 8             | 3                  |
| Grant                    | 12             | 12            | (2)          | --            | --           | --            | --         | --            | --           | --           | --            | --                 |
| Iowa                     | 9              | 9             | --           | --            | --           | --            | --         | --            | --           | --           | --            | --                 |
| La Crosse                | 44             | 41            | (2)          | --            | --           | --            | --         | --            | 1            | 1            | 1             | (2)                |
| Pepin                    | 11             | 3             | --           | --            | --           | --            | --         | 8             | --           | --           | --            | --                 |
| Pierce                   | 1              | 1             | (2)          | --            | --           | --            | --         | (2)           | (2)          | (2)          | (2)           | (2)                |
| Richland                 | 18             | 18            | --           | --            | --           | --            | --         | --            | --           | --           | --            | --                 |
| St. Croix                | 101            | 65            | (2)          | --            | --           | --            | --         | 33            | 2            | --           | 1             | --                 |
| Sauk                     | 77             | 75            | (2)          | --            | --           | --            | --         | 1             | (2)          | (2)          | 1             | (2)                |
| Trempealeau              | 97             | 96            | 1            | --            | --           | --            | --         | (2)           | --           | --           | --            | --                 |
| Vernon                   | 5              | 4             | 1            | --            | --           | --            | --         | --            | --           | --           | --            | --                 |
| <b>Total</b>             | <b>629</b>     | <b>497</b>    | <b>3</b>     | <b>--</b>     | <b>--</b>    | <b>--</b>     | <b>--</b>  | <b>105</b>    | <b>7</b>     | <b>3</b>     | <b>11</b>     | <b>3</b>           |
| <b>SOUTHEAST</b>         |                |               |              |               |              |               |            |               |              |              |               |                    |
| Brown                    | 11             | 4             | --           | --            | --           | --            | --         | 6             | (2)          | (2)          | 1             | (2)                |
| Calumet                  | (2)            | (2)           | --           | --            | --           | --            | --         | --            | --           | --           | --            | --                 |
| Columbia                 | 64             | 53            | 1            | --            | --           | --            | --         | 3             | 1            | 1            | 4             | 1                  |
| Dane                     | 8              | 7             | --           | --            | --           | --            | --         | --            | (2)          | (2)          | 1             | (2)                |
| Dodge                    | (2)            | (2)           | --           | --            | --           | --            | --         | --            | --           | --           | --            | --                 |
| Door                     | 1              | --            | --           | --            | --           | --            | --         | 1             | (2)          | (2)          | (2)           | (2)                |
| Fond Du Lac              | 4              | 1             | 2            | --            | --           | --            | --         | --            | (2)          | (2)          | 1             | (2)                |
| Green                    | 5              | 5             | --           | --            | --           | --            | --         | --            | (2)          | (2)          | (2)           | (2)                |
| Green Lake               | 41             | 35            | --           | --            | --           | --            | --         | 1             | 1            | 1            | 2             | 1                  |
| Jefferson                | 1              | 1             | --           | (2)           | --           | --            | --         | --            | --           | (2)          | (2)           | --                 |
| Kewaunee                 | (2)            | (2)           | --           | --            | --           | --            | --         | --            | (2)          | (2)          | (2)           | (2)                |
| Manitowoc                | 4              | 1             | --           | --            | 1            | --            | --         | --            | (2)          | --           | 2             | (2)                |
| Milwaukee                | (2)            | (2)           | --           | --            | --           | --            | --         | --            | --           | --           | --            | --                 |
| Outagamie                | 29             | 1             | --           | --            | --           | --            | --         | 20            | 1            | 1            | 5             | 1                  |
| Ozaukee                  | (2)            | (2)           | --           | --            | --           | --            | --         | --            | --           | --           | --            | --                 |
| Rock                     | 5              | 5             | --           | --            | --           | --            | --         | --            | (2)          | (2)          | (2)           | (2)                |
| Walworth                 | 3              | 3             | --           | --            | --           | --            | --         | --            | --           | --           | --            | --                 |
| Washington               | 3              | 3             | --           | --            | --           | --            | --         | --            | --           | --           | --            | --                 |
| Waukesha                 | 12             | 12            | --           | --            | --           | --            | --         | --            | --           | --           | --            | --                 |
| Winnebago                | (2)            | (2)           | --           | --            | --           | --            | --         | (2)           | (2)          | (2)          | (2)           | (2)                |
| <b>Total</b>             | <b>191</b>     | <b>131</b>    | <b>3</b>     | <b>(2)</b>    | <b>1</b>     | <b>--</b>     | <b>--</b>  | <b>31</b>     | <b>3</b>     | <b>3</b>     | <b>16</b>     | <b>3</b>           |
| <b>STATE TOTAL</b>       | <b>27,822</b>  | <b>6,945</b>  | <b>324</b>   | <b>641</b>    | <b>328</b>   | <b>63</b>     | <b>2</b>   | <b>10,896</b> | <b>2,680</b> | <b>697</b>   | <b>3,779</b>  | <b>1,467</b>       |
| <b>TOTAL LAKE STATES</b> | <b>78,509</b>  | <b>11,672</b> | <b>2,369</b> | <b>3,645</b>  | <b>802</b>   | <b>184</b>    | <b>73</b>  | <b>38,808</b> | <b>4,697</b> | <b>1,955</b> | <b>10,279</b> | <b>4,025</b>       |

1/ Includes only those counties that supplied pulpwood in 1991.

2/=Less than 50 cords.