

Forest floor carbon coefficients mostly from Table 4 of: Smith, J. E., and L. S. Heath. 2002. A model of forest floor carbon mass for United States forest types. Research Paper NE-722. Newtown Square, PA: USDA Forest Service

Table 4.--Coefficients to define modeled relationship between forest age and forest floor carbon mass (Mg/ha) for each combination of forest type by region. Columns A and B define net accumulation with age, and C and D describe the decay curve. Regrowth is the sum of accumulation and decay.

| Forest type                   | Accumulation: $\frac{A \times \text{age}}{B + \text{age}}$ |       | Decay: $C \times e^{-\left(\frac{\text{age}}{D}\right)}$ |                |
|-------------------------------|--|-------|--|----------------|
|                               | A  | B     | C <sup>a</sup>   | D <sup>a</sup> |
| <b>North</b>                  |  |       |  |                |
| pine                          | 19.1   | 25.6  | 13.8   | 8.4            |
| spruce, fir, hemlock          | 62.9   | 57.8  | 33.7   | 8.4            |
| mixed conifer-hardwood        | 65.0   | 79.5  | 29.7   | 8.4            |
| aspen-birch                   | 18.4   | 53.7  | 10.2   | 9.2            |
| maple-beech-birch             | 50.4   | 54.7  | 27.7   | 9.2            |
| mixed hardwood, oak           | 24.9   | 134.2 | 8.2  | 9.2            |
| nonstocked                    |  |       | 4.8  |                |
| <b>South</b>                  |  |       |  |                |
| pine                          | 20.4   | 27.1  | 12.2   | 3.8            |
| mixed conifer-hardwood        | 15.4   | 20.1  | 10.3   | 3.8            |
| mixed hardwood, oak-hickory   | 15.3   | 61.8  | 6.0  | 3.2            |
| nonstocked                    |  |       | 2.7  |                |
| <b>Pacific Northwest</b>      |  |       |  |                |
| Douglas-fir, Western Hemlock  | 87.5   | 116.7 | 27.5   | 16.0           |
| fir-hemlock, higher elevation | 53.9   | 44.3  | 29.5   | 16.0           |
| hardwood                      | 16.5   | 41.1  | 9.3  | 3.4            |
| nonstocked                    |  |       | 7.2  |                |
| <b>West</b>                   |  |       |  |                |
| pine                          | 43.9   | 87.3  | 24.1   | 24.1           |
| redwood, sequoia              | 92.6   | 52.1  | 62.2   | 24.1           |
| pinyon, juniper               |  |       | 21.1   |                |
| mixed conifer                 | 53.6   | 47.0  | 37.2   | 24.1           |
| hardwood                      | 50.1   | 62.0  | 31.7   | 19.8           |
| nonstocked                    |  |       | 17.3   |                |

<sup>a</sup>Values in Columns C and D are from Tables 1 and 3, respectively.