

## Forestland Productivity

This table can help forestland owners or managers plan the use of soils for wood crops. It shows the potential productivity of the soils for wood crops.

*Potential productivity* of merchantable or *common trees* on a soil is expressed as a site index and as a volume number. The *site index* is the average height, in feet, that dominant and codominant trees of a given species attain in a specified number of years. The site index applies to fully stocked, even-aged, unmanaged stands. Commonly grown trees are those that forestland managers generally favor in intermediate or improvement cuttings. They are selected on the basis of growth rate, quality, value, and marketability. More detailed information regarding site index is available in the "National Forestry Manual," which is available in local offices of the Natural Resources Conservation Service or on the Internet.

The *volume of wood fiber*, a number, is the yield likely to be produced by the most important tree species. This number, expressed as cubic feet per acre per year and calculated at the age of culmination of the mean annual increment (CMAI), indicates the amount of fiber produced in a fully stocked, even-aged, unmanaged stand.

*Trees to manage* are those that are preferred for planting, seeding, or natural regeneration and those that remain in the stand after thinning or partial harvest.

Reference:

United States Department of Agriculture, Natural Resources Conservation Service, National Forestry Manual.

## Report—Forestland Productivity

| Forestland Productivity—Delaware County, New York |                        |            |                      |                                                                               |
|---------------------------------------------------|------------------------|------------|----------------------|-------------------------------------------------------------------------------|
| Map unit symbol and soil name                     | Potential productivity |            |                      | Trees to manage                                                               |
|                                                   | Common trees           | Site Index | Volume of wood fiber |                                                                               |
|                                                   |                        |            | <i>Cu ft/ac/yr</i>   |                                                                               |
| Bc—Barbour loam                                   |                        |            |                      |                                                                               |
| Barbour                                           | Northern red oak       | 80         | 57.00                | Black walnut, Eastern white pine, Norway spruce                               |
|                                                   | Sugar maple            | 70         | 43.00                |                                                                               |
| Bg—Barbour-Trestle complex                        |                        |            |                      |                                                                               |
| Barbour                                           | Northern red oak       | 80         | 57.00                | Black walnut, Eastern white pine, Norway spruce                               |
|                                                   | Sugar maple            | 70         | 43.00                |                                                                               |
| Trestle                                           | Northern red oak       | 80         | 57.00                | Black locust, Black walnut, Eastern white pine, European larch, Norway spruce |
|                                                   | Sugar maple            | 70         | 43.00                |                                                                               |

| Forestland Productivity--Delaware County, New York       |                        |            |                      |                                                                 |
|----------------------------------------------------------|------------------------|------------|----------------------|-----------------------------------------------------------------|
| Map unit symbol and soil name                            | Potential productivity |            |                      | Trees to manage                                                 |
|                                                          | Common trees           | Site Index | Volume of wood fiber |                                                                 |
|                                                          |                        |            | <i>Cu ft/ac/yr</i>   |                                                                 |
| Bs—Basher silt loam                                      |                        |            |                      |                                                                 |
| Basher                                                   | American basswood      | 85         | 57.00                | Black walnut, Eastern white pine, European larch, Norway spruce |
|                                                          | Northern red oak       | 80         | 57.00                |                                                                 |
|                                                          | Sugar maple            | 70         | 43.00                |                                                                 |
| BtC—Bath channery silt loam, 8 to 15 percent slopes      |                        |            |                      |                                                                 |
| Bath                                                     | Black cherry           | 75         | 47.00                | Eastern white pine, European larch, Norway spruce, Red pine     |
|                                                          | Northern red oak       | 70         | 52.00                |                                                                 |
|                                                          | Sugar maple            | 65         | 40.00                |                                                                 |
| BtD—Bath channery silt loam, 15 to 25 percent slopes     |                        |            |                      |                                                                 |
| Bath                                                     | Black cherry           | 75         | 47.00                | Eastern white pine, European larch, Norway spruce, Red pine     |
|                                                          | Northern red oak       | 70         | 52.00                |                                                                 |
|                                                          | Sugar maple            | 65         | 40.00                |                                                                 |
| BtE—Bath channery silt loam, 25 to 35 percent slopes     |                        |            |                      |                                                                 |
| Bath                                                     | Black cherry           | 75         | 47.00                | Eastern white pine, European larch, Norway spruce, Red pine     |
|                                                          | Northern red oak       | 70         | 52.00                |                                                                 |
|                                                          | Sugar maple            | 65         | 40.00                |                                                                 |
| ChC—Chenango gravelly silt loam, 8 to 15 percent slopes  |                        |            |                      |                                                                 |
| Chenango                                                 | Northern red oak       | 80         | 57.00                | Eastern white pine, European larch, Red pine                    |
|                                                          | Sugar maple            | 70         | 43.00                |                                                                 |
| ChD—Chenango gravelly silt loam, 15 to 25 percent slopes |                        |            |                      |                                                                 |
| Chenango                                                 | Northern red oak       | 80         | 57.00                | Eastern white pine, European larch, Red pine                    |
|                                                          | Sugar maple            | 70         | 43.00                |                                                                 |
| ChE—Chenango gravelly silt loam, 25 to 50 percent slopes |                        |            |                      |                                                                 |
| Chenango                                                 | Northern red oak       | 80         | 57.00                | Eastern white pine, European larch, Red pine                    |
|                                                          | Sugar maple            | 70         | 43.00                |                                                                 |
| De—Deposit gravelly silt loam                            |                        |            |                      |                                                                 |
| Deposit                                                  | Black cherry           | 70         | 43.00                | Eastern white pine, European larch, Norway spruce, White spruce |
|                                                          | Sugar maple            | 63         | 43.00                |                                                                 |

| Forestland Productivity--Delaware County, New York                    |                        |            |                      |                                             |
|-----------------------------------------------------------------------|------------------------|------------|----------------------|---------------------------------------------|
| Map unit symbol and soil name                                         | Potential productivity |            |                      | Trees to manage                             |
|                                                                       | Common trees           | Site Index | Volume of wood fiber |                                             |
|                                                                       |                        |            | <i>Cu ft/ac/yr</i>   |                                             |
| EIC—Elka-Vly channery silt loams, 3 to 15 percent slopes, very stony  |                        |            |                      |                                             |
| Elka                                                                  | American beech         | 70         | 43.00                | Norway spruce, Red pine, White spruce       |
|                                                                       | Eastern white pine     | 75         | 143.00               |                                             |
|                                                                       | Northern red oak       | 75         | 57.00                |                                             |
|                                                                       | Red maple              | 75         | 43.00                |                                             |
|                                                                       | Sugar maple            | 70         | 43.00                |                                             |
| Vly                                                                   | Black cherry           | 70         | 43.00                | Eastern white pine, Norway spruce, Red pine |
|                                                                       | Eastern white pine     | 75         | 143.00               |                                             |
|                                                                       | Northern red oak       | 70         | 57.00                |                                             |
|                                                                       | Sugar maple            | 70         | 43.00                |                                             |
| EIE—Elka-Vly channery silt loams, 15 to 35 percent slopes, very stony |                        |            |                      |                                             |
| Elka                                                                  | American beech         | 70         | 43.00                | Norway spruce, Red pine, White spruce       |
|                                                                       | Eastern white pine     | 75         | 143.00               |                                             |
|                                                                       | Northern red oak       | 75         | 57.00                |                                             |
|                                                                       | Red maple              | 75         | 43.00                |                                             |
|                                                                       | Sugar maple            | 70         | 43.00                |                                             |
| Vly                                                                   | Black cherry           | 70         | 43.00                | Eastern white pine, Norway spruce, Red pine |
|                                                                       | Eastern white pine     | 75         | 143.00               |                                             |
|                                                                       | Northern red oak       | 70         | 57.00                |                                             |
|                                                                       | Sugar maple            | 70         | 43.00                |                                             |
| EIF—Elka-Vly channery silt loams, 35 to 70 percent slopes, very stony |                        |            |                      |                                             |
| Elka                                                                  | American beech         | 70         | 43.00                | Norway spruce, Red pine, White spruce       |
|                                                                       | Eastern white pine     | 75         | 143.00               |                                             |
|                                                                       | Northern red oak       | 75         | 57.00                |                                             |
|                                                                       | Red maple              | 75         | 43.00                |                                             |
|                                                                       | Sugar maple            | 70         | 43.00                |                                             |
| Vly                                                                   | Black cherry           | 70         | 43.00                | Eastern white pine, Norway spruce, Red pine |
|                                                                       | Eastern white pine     | 75         | 143.00               |                                             |
|                                                                       | Northern red oak       | 70         | 57.00                |                                             |
|                                                                       | Sugar maple            | 70         | 43.00                |                                             |

| Forestland Productivity--Delaware County, New York                       |                        |            |                      |                                              |
|--------------------------------------------------------------------------|------------------------|------------|----------------------|----------------------------------------------|
| Map unit symbol and soil name                                            | Potential productivity |            |                      | Trees to manage                              |
|                                                                          | Common trees           | Site Index | Volume of wood fiber |                                              |
|                                                                          |                        |            | <i>Cu ft/ac/yr</i>   |                                              |
| Ff—Fluvaquents-Udifluvents complex, frequently flooded                   |                        |            |                      |                                              |
| Fluvaquents                                                              | —                      | —          | —                    | —                                            |
| Udifluvents                                                              | —                      | —          | —                    | —                                            |
| HcC—Halcott, Mongaup, and Vly soils, 2 to 15 percent slopes, very rocky  |                        |            |                      |                                              |
| Halcott                                                                  | Eastern white pine     | 55         | 86.00                | Eastern white pine, European larch, Red pine |
|                                                                          | Northern red oak       | 55         | 43.00                |                                              |
|                                                                          | Sugar maple            | 50         | 29.00                |                                              |
|                                                                          | White ash              | —          | 0.00                 |                                              |
| Mongaup                                                                  | Beech                  | —          | 0.00                 | European larch, Norway spruce, Red pine      |
|                                                                          | Black cherry           | —          | 0.00                 |                                              |
|                                                                          | Red maple              | —          | 0.00                 |                                              |
|                                                                          | Sugar maple            | 59         | 43.00                |                                              |
| Vly                                                                      | Black cherry           | 70         | 43.00                | Eastern white pine, Norway spruce, Red pine  |
|                                                                          | Eastern white pine     | 75         | 143.00               |                                              |
|                                                                          | Northern red oak       | 70         | 57.00                |                                              |
|                                                                          | Sugar maple            | 70         | 43.00                |                                              |
| HcE—Halcott, Mongaup, and Vly soils, 15 to 35 percent slopes, very rocky |                        |            |                      |                                              |
| Halcott                                                                  | Eastern white pine     | 55         | 86.00                | Eastern white pine, European larch, Red pine |
|                                                                          | Northern red oak       | 55         | 43.00                |                                              |
|                                                                          | Sugar maple            | 50         | 29.00                |                                              |
|                                                                          | White ash              | —          | 0.00                 |                                              |
| Mongaup                                                                  | Beech                  | —          | 0.00                 | European larch, Norway spruce, Red pine      |
|                                                                          | Black cherry           | —          | 0.00                 |                                              |
|                                                                          | Red maple              | —          | 0.00                 |                                              |
|                                                                          | Sugar maple            | 59         | 43.00                |                                              |
| Vly                                                                      | Black cherry           | 70         | 43.00                | Eastern white pine, Norway spruce, Red pine  |
|                                                                          | Eastern white pine     | 75         | 143.00               |                                              |
|                                                                          | Northern red oak       | 70         | 57.00                |                                              |
|                                                                          | Sugar maple            | 70         | 43.00                |                                              |

| Forestland Productivity--Delaware County, New York                       |                        |            |                      |                                                             |
|--------------------------------------------------------------------------|------------------------|------------|----------------------|-------------------------------------------------------------|
| Map unit symbol and soil name                                            | Potential productivity |            |                      | Trees to manage                                             |
|                                                                          | Common trees           | Site Index | Volume of wood fiber |                                                             |
|                                                                          |                        |            | <i>Cu ft/ac/yr</i>   |                                                             |
| HcF—Halcott, Mongaup, and Vly soils, 35 to 70 percent slopes, very rocky |                        |            |                      |                                                             |
| Halcott                                                                  | Eastern white pine     | 55         | 86.00                | Eastern white pine, European larch, Red pine                |
|                                                                          | Northern red oak       | 55         | 43.00                |                                                             |
|                                                                          | Sugar maple            | 50         | 29.00                |                                                             |
|                                                                          | White ash              | —          | 0.00                 |                                                             |
| Mongaup                                                                  | Beech                  | —          | 0.00                 | European larch, Norway spruce, Red pine                     |
|                                                                          | Black cherry           | —          | 0.00                 |                                                             |
|                                                                          | Red maple              | —          | 0.00                 |                                                             |
|                                                                          | Sugar maple            | 59         | 43.00                |                                                             |
| Vly                                                                      | Black cherry           | 70         | 43.00                | Eastern white pine, Norway spruce, Red pine                 |
|                                                                          | Eastern white pine     | 75         | 143.00               |                                                             |
|                                                                          | Northern red oak       | 70         | 57.00                |                                                             |
|                                                                          | Sugar maple            | 70         | 43.00                |                                                             |
| LaB—Lackawanna flaggy silt loam, 3 to 8 percent slopes                   |                        |            |                      |                                                             |
| Lackawanna                                                               | Black cherry           | 78         | 49.00                | Eastern white pine, European larch, Norway spruce, Red pine |
|                                                                          | Northern red oak       | 70         | 52.00                |                                                             |
|                                                                          | Sugar maple            | 66         | 40.00                |                                                             |
|                                                                          | White ash              | 76         | 47.00                |                                                             |
| LaC—Lackawanna flaggy silt loam, 8 to 15 percent slopes                  |                        |            |                      |                                                             |
| Lackawanna                                                               | Black cherry           | 78         | 49.00                | Eastern white pine, European larch, Norway spruce, Red pine |
|                                                                          | Northern red oak       | 70         | 52.00                |                                                             |
|                                                                          | Sugar maple            | 66         | 40.00                |                                                             |
|                                                                          | White ash              | 76         | 47.00                |                                                             |
| LaD—Lackawanna flaggy silt loam, 15 to 25 percent slopes                 |                        |            |                      |                                                             |
| Lackawanna                                                               | Black cherry           | 78         | 49.00                | Eastern white pine, European larch, Norway spruce, Red pine |
|                                                                          | Northern red oak       | 70         | 52.00                |                                                             |
|                                                                          | Sugar maple            | 66         | 40.00                |                                                             |
|                                                                          | White ash              | 76         | 47.00                |                                                             |

| Forestland Productivity--Delaware County, New York                 |                        |            |                      |                                                                               |
|--------------------------------------------------------------------|------------------------|------------|----------------------|-------------------------------------------------------------------------------|
| Map unit symbol and soil name                                      | Potential productivity |            |                      | Trees to manage                                                               |
|                                                                    | Common trees           | Site Index | Volume of wood fiber |                                                                               |
|                                                                    |                        |            | <i>Cu ft/ac/yr</i>   |                                                                               |
| LaE—Lackawanna flaggy silt loam, 25 to 40 percent slopes           |                        |            |                      |                                                                               |
| Lackawanna                                                         | Black cherry           | 78         | 49.00                | Eastern white pine, European larch, Norway spruce, Red pine                   |
|                                                                    | Northern red oak       | 70         | 52.00                |                                                                               |
|                                                                    | Sugar maple            | 66         | 40.00                |                                                                               |
|                                                                    | White ash              | 76         | 47.00                |                                                                               |
| LcD—Lackawanna-Morris complex, 15 to 35 percent slopes, very stony |                        |            |                      |                                                                               |
| Lackawanna, very stony                                             | Black cherry           | 78         | 49.00                | Eastern white pine, European larch, Norway spruce, Red pine                   |
|                                                                    | Northern red oak       | 70         | 52.00                |                                                                               |
|                                                                    | Sugar maple            | 66         | 40.00                |                                                                               |
|                                                                    | White ash              | 76         | 47.00                |                                                                               |
| Morris, very stony                                                 | Northern red oak       | 70         | 52.00                | Black locust, Eastern white pine, European larch, Norway spruce, White spruce |
|                                                                    | Sugar maple            | 70         | 43.00                |                                                                               |
|                                                                    | Tuliptree              | 80         | 71.00                |                                                                               |
|                                                                    | White ash              | 75         | 47.00                |                                                                               |
| LdC—Lackawanna and Bath soils, 3 to 15 percent slopes, very stony  |                        |            |                      |                                                                               |
| Lackawanna, very stony                                             | Black cherry           | 78         | 49.00                | Eastern white pine, European larch, Norway spruce, Red pine                   |
|                                                                    | Northern red oak       | 70         | 52.00                |                                                                               |
|                                                                    | Sugar maple            | 66         | 40.00                |                                                                               |
|                                                                    | White ash              | 76         | 47.00                |                                                                               |
| Bath, very stony                                                   | Black cherry           | 75         | 47.00                | Eastern white pine, European larch, Norway spruce, Red pine                   |
|                                                                    | Northern red oak       | 70         | 52.00                |                                                                               |
|                                                                    | Sugar maple            | 65         | 40.00                |                                                                               |
| LdE—Lackawanna and Bath soils, 15 to 35 percent slopes, very stony |                        |            |                      |                                                                               |
| Lackawanna, very stony                                             | Black cherry           | 78         | 49.00                | Eastern white pine, European larch, Norway spruce, Red pine                   |
|                                                                    | Northern red oak       | 70         | 52.00                |                                                                               |
|                                                                    | Sugar maple            | 66         | 40.00                |                                                                               |
|                                                                    | White ash              | 76         | 47.00                |                                                                               |
| Bath, very stony                                                   | Black cherry           | 75         | 47.00                | Eastern white pine, European larch, Norway spruce, Red pine                   |
|                                                                    | Northern red oak       | 70         | 52.00                |                                                                               |
|                                                                    | Sugar maple            | 65         | 40.00                |                                                                               |

| Forestland Productivity--Delaware County, New York                 |                        |            |                      |                                                             |
|--------------------------------------------------------------------|------------------------|------------|----------------------|-------------------------------------------------------------|
| Map unit symbol and soil name                                      | Potential productivity |            |                      | Trees to manage                                             |
|                                                                    | Common trees           | Site Index | Volume of wood fiber |                                                             |
|                                                                    |                        |            | <i>Cu ft/ac/yr</i>   |                                                             |
| LdF—Lackawanna and Bath soils, 35 to 55 percent slopes, very stony |                        |            |                      |                                                             |
| Lackawanna, very stony                                             | Black cherry           | 78         | 49.00                | Eastern white pine, European larch, Norway spruce, Red pine |
|                                                                    | Northern red oak       | 70         | 52.00                |                                                             |
|                                                                    | Sugar maple            | 66         | 40.00                |                                                             |
|                                                                    | White ash              | 76         | 47.00                |                                                             |
| Bath, very stony                                                   | Black cherry           | 75         | 47.00                | Eastern white pine, European larch, Norway spruce, Red pine |
|                                                                    | Northern red oak       | 70         | 52.00                |                                                             |
|                                                                    | Sugar maple            | 65         | 40.00                |                                                             |
| LeB—Lewbath flaggy loam, 3 to 8 percent slopes                     |                        |            |                      |                                                             |
| Lewbath                                                            | Black cherry           | 75         | 47.00                | Eastern white pine, European larch, Norway spruce, Red pine |
|                                                                    | Northern red oak       | 70         | 52.00                |                                                             |
|                                                                    | Sugar maple            | 65         | 40.00                |                                                             |
| LeC—Lewbath flaggy loam, 8 to 15 percent slopes                    |                        |            |                      |                                                             |
| Lewbath                                                            | Black cherry           | 75         | 47.00                | Eastern white pine, European larch, Norway spruce, Red pine |
|                                                                    | Northern red oak       | 70         | 52.00                |                                                             |
|                                                                    | Sugar maple            | 65         | 40.00                |                                                             |
| LeD—Lewbath flaggy loam, 15 to 25 percent slopes                   |                        |            |                      |                                                             |
| Lewbath                                                            | Black cherry           | 75         | 47.00                | Eastern white pine, European larch, Norway spruce, Red pine |
|                                                                    | Northern red oak       | 70         | 52.00                |                                                             |
|                                                                    | Sugar maple            | 65         | 40.00                |                                                             |
| LeE—Lewbath flaggy loam, 25 to 35 percent slopes                   |                        |            |                      |                                                             |
| Lewbath                                                            | Black cherry           | 75         | 47.00                | Eastern white pine, European larch, Norway spruce, Red pine |
|                                                                    | Northern red oak       | 70         | 52.00                |                                                             |
|                                                                    | Sugar maple            | 65         | 40.00                |                                                             |
| LhB—Lewbeach channery loam, 3 to 8 percent slopes                  |                        |            |                      |                                                             |
| Lewbeach                                                           | Black cherry           | 78         | 49.00                | Eastern white pine, European larch, Norway spruce, Red pine |
|                                                                    | Northern red oak       | 70         | 52.00                |                                                             |
|                                                                    | Sugar maple            | 66         | 40.00                |                                                             |
|                                                                    | White ash              | 76         | 47.00                |                                                             |