

## Variation of Water in Trees.

| SPECIES.                            | ENGLISH NAME.  | FEBRUARY. |          | MARCH.   |          | APRIL.   |          | SEPTEMBER. |          | DECEMBER. |          |
|-------------------------------------|----------------|-----------|----------|----------|----------|----------|----------|------------|----------|-----------|----------|
|                                     |                | 1st Year  | 2nd Year | 1st Year | 2nd Year | 1st Year | 2nd Year | 1st Year   | 2nd Year | 1st Year  | 2nd Year |
| OLEACEE.                            |                |           |          |          |          |          |          |            |          |           |          |
| <i>Fraxinus americana, L.</i>       | White ash      | 32.0      | 29.6     | 38.3     | 34.4     |          |          |            |          | 35.2      | 29.5     |
| THYMELACEE.                         |                |           |          |          |          |          |          |            |          |           |          |
| <i>Diospyros palustris, L.</i>      | Leatherwood    | 51.8      |          |          |          |          |          |            |          |           |          |
| LAURACEE.                           |                |           |          |          |          |          |          |            |          |           |          |
| <i>Sassafras officinalis, Nutt.</i> | Sassafras      | 34.9      | 33.9     | 40.7     | 38.1     |          |          |            |          |           | 41.4     |
| SOLANACEE.                          |                |           |          |          |          |          |          |            |          |           |          |
| <i>Lycium barbarum, L.</i>          | Matrimony      |           |          |          |          |          |          |            |          | 65.4      | 58.0     |
| URTICACEE.                          |                |           |          |          |          |          |          |            |          |           |          |
| <i>Ulmus fulva, Michx.</i>          | Red elm        |           |          | 52.1     | 44.0     |          |          |            |          | 51.5      | 36.3     |
| <i>" americana, L.</i>              | White elm      | 41.4      | 39.8     | 45.6     | 36.5     |          |          | 57.1       | 52.3     | 43.0      | 43.9     |
| <i>Morus alba, L.</i>               | White mulberry | 52.1      | 43.0     |          |          |          |          |            |          |           |          |
| <i>" rubra, L.</i>                  | Red mulberry   |           |          | 47.0     | 42.8     |          |          |            |          | 56.2      | 40.5     |
| PLATANACEE.                         |                |           |          |          |          |          |          |            |          |           |          |
| <i>Platanus occidentalis, L.</i>    | Plane tree     | 44.5      | 51.6     | 50.2     | 52.1     | 52.5     | 53.8     |            |          | 48.2      | 50.6     |
| JUGLANDACEE.                        |                |           |          |          |          |          |          |            |          |           |          |
| <i>Juglans nigra, L.</i>            | Black walnut   | 45.5      | 46.1     | 50.2     | 56.1     |          |          |            |          | 50.6      | 53.8     |
| <i>" cinerea, L.</i>                | Butternut      |           |          | 50.5     | 52.2     |          |          | 54.2       | 54.1     | 49.5      | 50.4     |
| <i>Carya alba, Nutt.</i>            | Hickory        |           |          | 39.2     | 40.2     |          |          | 45.7       | 45.1     | 38.4      | 37.8     |
| <i>" porcina, Nutt.</i>             | Pignut         |           |          | 40.8     | 38.0     |          |          |            |          | 38.1      | 35.4     |
| <i>" amara, Nutt.</i>               | Bitter nut     | 33.3      | 31.2     |          |          |          |          |            |          |           |          |