

time on, the curve descends at a more gradual rate until December, when it suddenly drops to its minimum depression, which evidently occurs in January.

PERIODS OF CESSATION OF GROWTH.

As, upon theoretical grounds, the tissues contain most water when the growth is most active, data which will enable us to fix accurately the limiting periods for the season's growth, will have an important bearing upon this question. Mr. W. E. Stone,¹ accepting the completion of terminal buds as marking completion of the longitudinal growth for the entire year, has obtained the following data, as establishing periods limiting growth in trees for the latitude of West Point, New York, 41° 23' N.:—

JUNE 1ST.

- Acer saccharinum.* Wang.
- " *rubrum.* L.
- Amelanchier canadensis.* Torr & Gr.
- Carya alba.* Nutt.
- Fagus ferruginea.* Ait.
- Fraxinus americana.* L.
- Hamamelis virginica.* L.
- Kalmia latifolia.* L.
- Populus tremuloides.* Michx.
- Quercus alba.* L.
- " *bicolor.* Willd.
- " *cooccinea.* Wang.
- " *prinus.* L.
- Sambucus pubens.* Michx.
- Tilia americana.* L.
- Ulmus americana.* L.
- " *fulva.* Michx.

JUNE 15TH.

- Betula lenta.* L.
- Carpinus americana.* Michx.
- Castanea vesca.* L.
- Juglans nigra.* L.
- Lindera benzoin.* Meisner.
- Morus rubra.* L.
- Ostrya virginica.* Willd.
- Prunus cerasus.* L.

¹ Bull. Torrey Bot. Club., xii. 8, 83.