

SUMMARY

1. Geum canadense in New Jersey in its normal periodicity is a perennial with a winter rosette alternating with an upright flowering shoot in summer.
2. A definite cold (freezing period) is necessary during the winter rosette stage in order that the flowering stage may follow.
3. Seed has a short viable period. It must germinate soon after being shed, while the achene is still green. The seeds cannot stand a freezing period.
4. Variations in light and nutrients influence the growth and flowering of the plants but the primary control of periodicity appears to be temperature.
5. The present study has not discovered the factor controlling the cessation of the reproductive stage and initiation of the rosette stage although evidence points to a temperature factor being of prime importance.
6. Experimentation in photoperiodic response in the greenhouse places Geum canadense in the day-neutral or indeterminate plant group.