

VIDEO: UNDERSTANDING PHOTOPERIOD

<https://youtu.be/vwNceKsMaCE>

In this video, Dr. Will Healy discusses the critical (but often confusing) topic of photoperiod. There has been a lot of research on photoperiod impact on annual and perennial crops and Will does a great job breaking down the science into understandable information that will help you avoid flowering and growth issues and nail your crop timing.

Get ready for a quick trip through different flowering classifications – Day Neutral, Long Day and Short Day – with time spent on major crops that fall into each group.

Short Day Plants

Chrysanthemum

- Response Group (induction to open flowers)
 - ❖ Garden Mums: 5-7 Week
 - ❖ Pot Mums 8-10 Week
 - ❖ Garden Mums 11+ Week
- Floral Initiation <13-Hour for 10-W RG
- 14-28 short days required to complete induction
- Night temps
 - ❖ <65F Promote flowering regardless of photoperiod
 - ❖ >80F inhibit flower initiation
- Once induced development continues under LD

Zinnia elegans


- Floral initiation & Florets ray [petals] vs disk
- <10-Hour, 5 short day cycles for induction
- >12-Hour results in petals vs centers

Poinsettia


- Response Group (induction to open flowers)
- Floral Initiation <10-Hour (Temp↑, daylength↓)
- 16-25 short days required to complete induction
- Night temps >80F inhibit flower initiation

Cosmos bipinnatus



- Plugs: SD (<14-Hour) with 7-10 short days
- Once induced plants continue to flower under LD



Ray Floret Disk Floret



NI SD



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