



GrowerFacts Extra Salvia Big Blue

Additional Culture Research
from

PanAmerican Seed[®]

Salvia Big Blue

Culture Research, published 2019

PanAmericanSeed.

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PLUG PGRS:

- Plug stage 3: Apply one of following PGRs at 2 weeks from sow
 - Daminozide 2,500 ppm spray or
 - Ancymidol 5 ppm spray or
 - Paclobutrazol 5 ppm spray
- Plug stage 4:
 - If using daminozide, repeat every 7-10 days as needed
 - Ancymidol or paclobutrazol might not require repeat applications



Control

A-Rest
5 ppm

B-Nine
2500 ppm

Bonzi
5 ppm

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FINISH CULTURE: Pinching

- Salvia Big Blue plants exhibit strong apical dominance
 - Pinching is required
 - Soft pinch (pinch the tip, leaving 4 nodes) at 6 weeks from sow
- OR
- Hard pinch (leave 4 nodes at the base) at 8-9 weeks from sow



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FLOWERING TIME: Determined by

- Temperature
- Photoperiod
- Daily light integral (DLI)

TEMPERATURE

- Prefers warm temperatures and flowers faster as average daily temperature (ADT) increases

PHOTOPERIOD

- Facultative intermediate plant with a light accumulating response



Salvia Big Blue

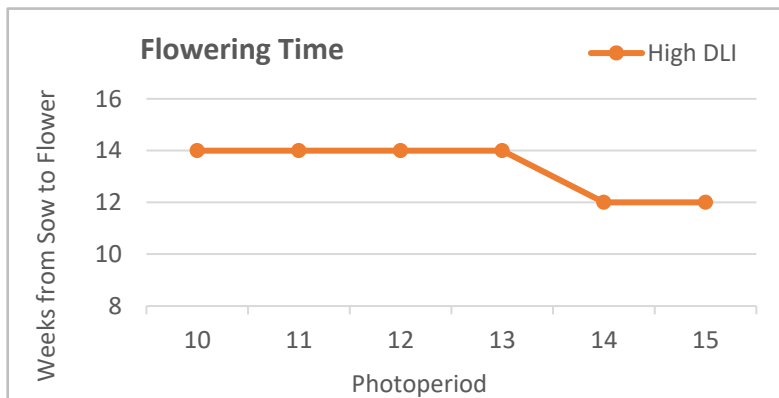
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PHOTOPERIOD RESPONSE

- Facultative intermediate plant
- Optimal daylength of 14-15 hours, 16 hours and night interruption (NI) delays flowering by up to 1 week than 14-15 hours
- 2-3 weeks faster flowering under 14 and 15 hours than SDs



8 weeks after transplant & start of treatments at 68 °F
Pinched to 4 nodes 1 week after transplant

*Seedlings received 20 LDs in 288s and 22 SDs in 50s prior to transplant in 6"

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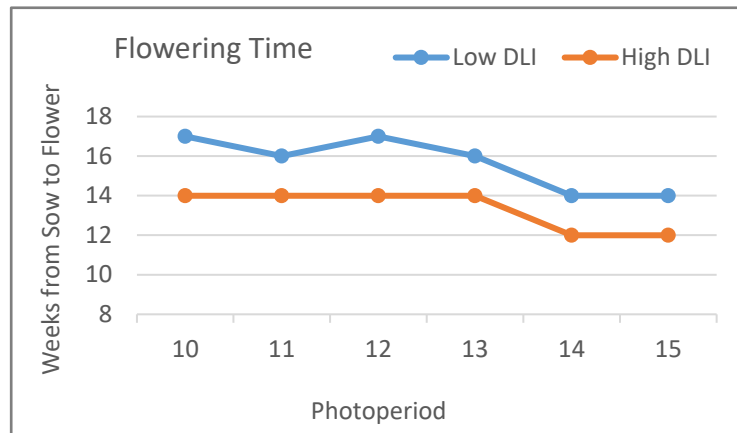
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EFFECT OF DLI

- Light accumulator i.e. faster flowering under higher DLI
- 2-3 weeks faster flowering under high DLI than low DLI



Low DLI ~ 5 moles



High DLI ~ 15 moles



10 11 12 13 14 15

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SCHEDULING

Fastest Flowering

- Under 14 and 15 hours and high DLI at 12 weeks from sow to flower

Slowest Flowering

- under SDs (10-13 hours) and low DLI at 16-17 weeks from sow to flower
- The difference between fastest vs slowest flowering is 4 to 5 weeks
- Add 2 weeks to compensate for potential delay at 16 hour photoperiod in northern regions

EFFECT OF PHOTOPERIOD AND DLI		
Photoperiod (hours)	Weeks from sow to flower under low DLI of 5 moles/m ² /d	Weeks from sow to flower under high DLI of 15 moles/m ² /d
10	17	14
11	16	14
12	17	14
13	16	14
14	14	12
15	14	12

Grown at ADT of 68 °F

When grown warmer, flowering will be 1-2 weeks faster