

FACTORS CONTROLLING FLOWERING IN THE CHRYSANTHEMUMS

(องค์ประกอบที่ควบคุมการออกดอกของต้นเบญจมาศ)



by

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Abstract

1. Potted Chrysanthemum morifolium var. Delaware were subjected to extended short days (8+0, 8+2, 8+4) with both natural and artificial light under natural or low light intensity conditions. Macroscopically visible inflorescence bud was nearly the same when the day was extended by artificial light, but was earlier in short days extended by 4 hours of natural light (8+4) than in other extended short days (8+2, 8+0) either in reduced or normal light intensity conditions.

2. Young potted Chrysanthemum morifolium var. Americana plants ranging in age from 0 to 5 weeks after the time of pinching were held under short day (8 hours) conditions until flowering. The older the plants after pinching and before the start of short day treatment, the more sensitive they became to photoperiodic treatments and thus a shorter critical photoperiod was required for flowering.

3. Potted Chrysanthemum morifolium var. Bon Deluxe was subjected to varying photoperiods under normal light intensity. No great differences were observed, but continuous short day treatments produced flowers of slightly better qualities.

4. Cuttings of 54 newly bred varieties were held under short days (8 hours) during different seasons to aid in finding the optimal time for planting. A table is provided showing the time taken to flower from the start of the short day treatment.

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Contents

Abstract	c
Acknowledgement	d
List of color plates	f
List of tables	g
List of graphs and histograms	h
Chapter	
1. Introduction	1
2. Review of Literature	2
3. Materials and Methods	24
4. Results	28
Part 1: Effects of photoperiods and light intensity	
Experiment 1	28
Experiment 2	35
Experiment 3	41
Part 2: Effects of plant ages at the start of the short day treatments on growth and flowering	
Experiment 4	52
Part 3: Effects of varying photoperiods	
Experiment 5 ..	62
Part 4: Flowering of newly bred varieties during different seasons	
Experiment 6	71
5. Discussion	74
6. Summary and Conclusion	80
Literature Citations	82

List of color plates

Plate	page
1. Growth and flowering of Delaware as affected by photoperiods and light intensity, Experiment 1	31
2. Growth and flowering of Delaware as affected by photoperiods and light intensity, experiment 2	37
3. Growth and flowering of Bon Deluxe as affected by photoperiods and light intensity, experiment 3	43
4. Growth and flowering of Americana as affected by age of plants at start of SDT, experiment 4	55
5. Growth and flowering of Bon Deluxe as affected by varying photoperiods, experiment 5	65



List of tables

Table	page
1. Effects of photoperiods and light intensity on Delaware, experiment 1	30
2. Effects of photoperiods and light intensity on Delaware, experiment 2	36
3. Effects of photoperiods and light intensity on Bon Deluxe, experiment 3	42
4. Effects of age of planta at start of SDT on Americana, experiment 4	54
5. Effects of varying photoperiods on Bon Deluxe, experiment 5	64
6. Number of short photoperiods from start of SDT until flowering in new varieties during different seasons, experiment 6	72

List of graphs and histograms

Figure	page
1. Effects of photoperiods and light intensity on shoot length of Delaware, experiment 1	32
2. Flowering of Delaware as affected by photoperiods and light intensity, experiment 1	33
3. Effects of photoperiods and light intensity on number of florets of Delaware, experiment 1	34
4. Effects of photoperiods and light intensity on shoot length of Delaware, experiment 2	38
5. Flowering of Delaware as affected by photoperiods and light intensity, experiment 2	39
6. Effects of photoperiods and light intensity on number of florets on Delaware, experiment 2	40
7. Effects of photoperiods and light intensity on shoot length of Bon Deluxe, experiment 3	44
8. Flowering of Bon Deluxe as affected by photoperiods and light intensity, experiment 3	45
9. Effects of photoperiods and light intensity on number of florets, experiment 3	46
10. Effects of photoperiods and light intensity on flower quality of Delaware and Bon Deluxe, Exp. 1, 2 and 3	47
11. Shoot length of Americana as affected by age of plants at start of SDT, experiment 4	56

List of graphs and histograms (cont.)

Figure	page
12. Flowering of Americana as affected by age of plants at start of SDT, experiment 4.....	57
13. Flowering of Americana as affected by age of plants at start of SDT, experiment 4.....	58
14. Number of florets of Americana as affected by age of plants at start of SDT, experiment 4.....	59
15. Flower quality of Americana as affected by age of plants at start of SDT, experiment 4.....	60
16. Shoot length of Bon Deluxe as affected by varying photoperiods, experiment 5.....	66
17. Flowering of Bon Deluxe as affected by varying photoperiods, experiment 5.....	67
18. Number of florets of Bon Deluxe as affected by varying photoperiods, experiment 5.....	68
19. Flower quality of Bon Deluxe as affected by varying photoperiods, experiment 5.....	69