

**ONTARIO ROCK GARDEN & HARDY PLANT SOCIETY
SEED EX 2018-2019
GUIDE TO SEED GERMINATION**

Look Here

This key designates a proven germination technique for each species of seed stored dry for 6 months @ 20°C, except where noted. If you have germination information, suggestions, corrections or questions, contact Carol Clark, 88 Cottonwood Dr., Toronto, Ont., Canada, M3C 2B4. E-mail carol.clark@utoronto.ca

21	ORG&HPS 2018 - 19 Campanula latifolia	A
	Pe Tall spikes of dark blue flrs. Broad leaves.	
100	DOLB	14

SYMBOLS, LETTERS and NUMBERS

- * This species needs special care which is described on the reverse side.
- ? We have no information on this species. We sometimes provide an informed guess about which approach you should try. Let us know what is successful.
- ! Sow immediately. Either the viability of these seeds is short or the species propagates best with fresh seed. Stored seed might be coaxed into germination with temperature cycling and patience.
- [X] This seed is restricted and cannot be imported to the United States.
- [i] This plant is considered invasive in Ontario. Propagate with caution.

- A** Sow @ 20°C. Seed germinates within 3 months.
- B** Sow @ 20°C. If seed does not germinate within 3 months, try 4°C for 1-2 months, then 20°C again.
- C** Sow @ 20°C for 3 months, then place @ 4°C for 3 months.
- D** Use repeated cycles of 20°C, then 4°C for 3 months each. Germination is very prolonged.
- E** Sow @ 20°C for 6 weeks, then place @ 4°C for 6 weeks, then slowly raise temperature to 10°C for 6 weeks. If there is no germination, repeat the cycle.
- F** Sow @ 4°C.
- G** Sow @ 4°C for 3 months, then place @ 20°C for 3 months.
- H** Use repeated cycles of 4°C, then 20°C for 3 months each. Germination is very prolonged.
- J** Sow @ 4°C for 3 weeks, then place @ 20°C.
- K** Sow @ 10°C.
- L** Expose to fluctuating outdoor winter temperatures including freezing for 3 months. Gradually increase light and temperature in spring.
- N** Sow directly in garden.

- 1** Resents transplanting.
- 2** Requires darkness.
- 3** Requires light or the seed is very fine. Surface sow and expose to light.
- 4** Germination is improved by using GA3.
- 5** Germination is successful only when GA3* is used.
- 6** Requires scarification. Nick or rub between sheets of sandpaper.
- 7** Requires soaking. Place in warm water until seeds swell, usually 24-48 hours. Discard water and any seeds that remain floating.
- 8** Pulpy coat inhibits germination. Remove by soaking and rinsing in clean water for approximately 7 days. Discard water.
- 9** At one time, we advised "Tails may inhibit germination. Remove them." The advice applied primarily to pulsatillas and clematises. Our most recent data indicates that leaving the tails on has no effect on germination.

WHAT OUR TEMPERATURE DESIGNATIONS MEAN

- 4°C** Either place seeds outdoors to be exposed to a wide range of winter temperatures including freezing or put them in a refrigerator (not a deep freezer).
- 10°C** Either place seeds outdoors in spring or fall or choose a very cool indoor location.
- 20°C** Either place seeds in a sheltered outdoor location in mid to late spring or grow at room temperature.