

Penstemon Carillo Series

(*Penstemon x mexicali*)

Perennials Culture (revised 02/22/19)

Plug crop time: 6 to 8 weeks

Transplant to finish: 12 to 14 weeks

- Heat and drought-tolerant North American prairie plant.
- Well-branched plants are the most compact of any seed or vegetative varieties.
- Good shelf life; easy care and long flowering in landscapes and containers.
- Flowers in early Summer.

General Information

Exposure	Bloom Season	Height	Spread	Spacing
Sun	Late Spring, Summer, Late Summer	8-10 in. (20-25 cm)	10 in. (25 cm)	12-16 in. (30-41 cm)

Germination

Seed Form	Recommended Plug Size	Seeds/Cell	Plug Crop Weeks	Days to Germinate	Initial Media pH/EC	Cover Seed
RAW	288 128*	3-4 3-4	6-8 7-8	3-6	5.8-6.5 pH 0.75 mmhos/cm	No

* Recommend plug size for forcing.

Plug Production

	Stage 1	Stage 2	Stage 3	Stage 4
Moisture	Level 4	Level 3	Level 3	Level 3
Temperature	65-68°F (18-20°C)	60-65°F (16-18°C)	60-65°F (16-18°C)	60-65°F (16-18°C)
Light	Optional	2,000-2,500 f.c. (21,500-26,900 Lux)	2,000-2,500 f.c. (21,500-26,900 Lux)	4,000-5,000 f.c. (43,100-53,800 Lux)
Fertilizer	Less than 100 ppm N - Less than 0.7 EC	100 to 175 ppm N - 0.7 to 1.2 EC	100 to 175 ppm N - 0.7 to 1.2 EC	100 to 175 ppm N - 0.7 to 1.2 EC

Vernalization

No

Propagation Key Tips

Spray damp-off fungicide. Carillo Red will show reversible chlorosis if grown too cold (lower than 50°F/10°C ADT). For info on forcing for Mother's Day (Week 19): See Perennials Forcing Guide.

Growing on to Finish

Growing on Temperature	Target Media pH/EC	Fertilizer	Daylength
(day) 65-72°F (18-22°C) (night) 55-59°F (13-15°C)	5.8-6.5 pH 1.1-1.4 mmhos/cm	175 to 225 ppm N - 1.2 to 1.5 EC	Facultative Long Day

Daylength Notation

Critical daylength 13 hrs.

For more info: See Perennials Forcing Guide.

Crop Scheduling

Crop Type	Container Size	Plugs/Pot	Crop Time	Season	PGR
Annual	4"/4.5"/Quart	1 (ppp)	12-14 (weeks)	Late Spring	daminozide 1,500-2,500 ppm Spray
Annual	4"/4.5"/Quart	1 (ppp)	12-14 (weeks)	Summer	daminozide 1,500-2,500 ppm Spray
Annual	5"/6"/1 Gallon	2-3 (ppp)	12-14 (weeks)	Late Spring	daminozide 1,500-2,500 ppm Spray
Annual	5"/6"/1 Gallon	2-3 (ppp)	12-14 (weeks)	Summer	daminozide 1,500-2,500 ppm Spray

Fertilizer Notation

Apply fertilizer at rate 2 to 3 (150 to 225 ppm N/1.1 to 1.5 mmhos/cm EC) from nitrate-based fertilizer. Avoid high ammonium levels.

Common Problems

Insects: Aphids, Spider Mites, Whiteflies Disease: Powdery Mildew

Finishing Key Tips

Needs high light. Low RH. Grow relatively dry. Prevent Mg and Fe deficiency. Monitor for Leafspot, Powdery Mildew, Slugs, Snails and Leaf Eelworm. Carillo Red is more sensitive to cold, showing yellow leaf tips that will reverse with higher temp.

NOTE: Growers should use the information presented here as guidelines only. PanAmerican Seed recommends that growers conduct a trial of products under their own conditions. Crop times will vary depending on the climate, location, time of year, and greenhouse environmental conditions. It is the responsibility of the grower to confirm the treatment is available in their region as well as read and follow all the current label directions relating to the products. Nothing herein shall be deemed a warranty or guaranty by PanAmerican Seed of any products listed herein. PanAmerican Seed's terms and conditions of sale shall apply to all products listed herein.

Variety Pictures



Purple



Red

PanAmericanSeed™

PanAmerican Seed Co.
622 Town Road, West Chicago, Illinois, USA, 60185-2698
630 231-1400 Fax: 630 231-3609 PanAmSeed.com

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