GrowerFacts

PanAmerican Seed®

Rudbeckia Goldsturm

(Rudbeckia fulgida var. sullivantii)

Perennials Culture (revised 10/31/23)

Plug crop time: 6 to 8 weeks
Transplant to finish: 20 to 24 weeks

- Superior seed quality compared to other Goldsturm strains.
- Premium, late Summer-flowering perennial is considered “best in class” for landscapes.
- Upright plants produce a large, single, scentless bloom on every stem, over tight, dark green foliage.

General Information

Exposure	Bloom Season	Height	Spread	Spacing
Sun	Summer, Late Summer, Autumn	24-28 in. (61-71 cm)	14-18 in. (36-46 cm)	14-18 in. (36-46 cm)

Germination

Seed Form	Recommended Plug Size	Seeds/Cell	Plug Crop Weeks	Days from 50% to maximum germination	Initial Media pH/EC (1:2)	Cover Seed
PRM	288 72*	2 3-4	6-8 14	3-5	5.8-6.5 pH 0.75 mmhos/cm	Yes

* Recommend plug size for forcing.

Plug Production

	Stage 1	Stage 2	Stage 3	Stage 4
Moisture	Level 4	Level 3-4	Level 2-3	Level 2
Temperature	72-77°F (22-25°C)	68-74°F (20-23°C)	65-68°F (18-20°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)
Fertiliser		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)

Vernalisation

No

Propagation Key Tips

Annual program for late Summer flowering: provide 10-hour short days. Bulk from 2 true leaves (approximately 4 weeks after sowing) until 10 true leaves for more uniform flowering. Step up 288 plugs into 72 or 50 cell, maintaining 10-hour short days.
For forcing info: See Perennials Forcing Guide.

Growing on to Finish

Growing on Temperature	Target Media pH/EC (1:2)	Fertiliser	Daylength
(day) 65-68°F (18-20°C) **(night)** 60-65°F (16-18°C)	5.8-6.5 pH 1.2-1.5 mmhos/cm	175 to 225 ppm N (1.2 to 1.5 EC)	Short Day-Long Day

Daylength Notation

Best plant structure comes under Short Day conditions (12 hours or less) until 10-leaf stage, then Long Day (15 hours or longer).
For forcing info: see Perennials Forcing Guide.

Crop Scheduling

Crop Type	Container Size	Plugs/Pot	Crop Time	Season	PGR
Annual	4"/4.5"/Quart/10 cm	1 (ppp)	16-23 (weeks)	Summer	paclobutrazol 20-30 ppm Spray
Annual	4"/4.5"/Quart/10 cm	1 (ppp)	16-23 (weeks)	Summer	uniconazole 5-10 ppm Spray
Annual	5"/6"/1 Gallon/15 cm	2-3 (ppp)	16-24 (weeks)	Summer	paclobutrazol 20-30 ppm Spray
Annual	5"/6"/1 Gallon/15 cm	2-3 (ppp)	16-24 (weeks)	Summer	uniconazole 5-10 ppm Spray
Overwinter	5"/6"/1 Gallon/15 cm	1 (ppp)	32-34 (weeks)	Summer	uniconazole 5-10 ppm Spray
Overwinter	8"/2 Gallon/20 cm	3-5 (ppp)	32-34 (weeks)	Summer	paclobutrazol 20-30 ppm Spray

Fertiliser Notation

Use 100 to 125 ppm liquid N balanced fertilizer with every irrigation, or 200 to 300 ppm N balanced fertilizer as needed.

Common Problems

Insects: Aphids, Whiteflies Disease: Septoria Leaf Spot is the primary disease observed on Rudbeckia. Other pathogens that may be observed include Botrytis, Cercospora, Downy Mildew, Powdery Mildew, Phytopthora, Pseudomonas, Pythium and Rhizoctonia

Bulking Strategy

See Quick Study Forcing: use short days (less than 12 hours) from 2 to 10 true leaves (approximately 12 to 14 weeks) to plan for week 35 sales. For forcing info: See Perennials Forcing Guide.

Finishing Key Tips

Relatively high feeder. Use long day (15 hours or longer) or night interruption to finish early pottings or use vernalised plugs. Prevent Mg and Fe deficiency. Monitor for Botrytis and downy mildew. High light and good ventilation are beneficial. PGR advice as follows: best effect with Sumagic 2x 15 ppm spray; another PGR option is a tank mix of B-Nine 2,500 ppm/CCC 750 ppm 3x spray. Possible foliage issues can occur on new growth leaves (puckering, cup up, tip marginal burning) during flower induction period because of more difficult mineral transport during this developmental stage. There is no good fertilisation correction possible, only maintain as low an RH as possible with optimal ventilation to have optimal plant transport of elements. The foliage issue will mostly have disappeared at flowering sales stage. For Autumn forcing info: See Perennials Forcing Guide.

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


Goldsturm


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