# GrowerFacts

PanAmerican Seed®

## Aquilegia Earlybird™ $F_1$ Series

*(Aquilegia x hybrida)*

Perennials Culture (revised 01/08/25)

**Plug crop time:** 6 to 9 weeks
**Transplant to finish:** 12 to 16 weeks (20 to 30 weeks overwintered)

- Strong colours and colour combinations spark new interest in Aquilegia!
- Series has a low cold requirement and short juvenility for growing in warm Winter climates.
- Features a controlled habit, with relatively short stems on well-mounded plants.
- A flowering window of 10 to 12 days, plus a short harvest window, make it an excellent choice for early-Spring programs.
- Purple White, Purple Yellow and Red Yellow are unique colours in F1 Aquilegia.

## General Information

| Exposure | Bloom Season | Height | Spread | Spacing |
|---|---|---|---|---|
| Partial Sun, Sun | Early Spring, Spring, Late Spring, Summer | 9-11 in.<br>(23-28 cm) | 8-10 in.<br>(20-25 cm) | 10-12 in.<br>(25-30 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 |
|---|---|---|---|---|---|---|
| RAW | 288 | 1 | 6-7 | 7-17 | 5.8-6.4 pH<br>0.75 mmhos/cm | Optional |

## Plug Production

| | Stage 1 | Stage 2 | Stage 3 | Stage 4 |
|---|---|---|---|---|
| **Moisture** | Level 4 | Level 4 | Level 3 | Level 2 |
| **Temperature** | 72-77°F<br>(22-25°C) | 68-73°F<br>(20-23°C) | 65-70°F<br>(18-21°C) | 60-65°F<br>(16-18°C) |
| **Light** | Optional | 2,500 f.c.<br>(26,900 Lux) | 6-8 $mol \cdot m^{-2} \cdot d^{-1}$<br>2,500 f.c.<br>(26,900 Lux) | 6-8 $mol \cdot m^{-2} \cdot d^{-1}$<br>5,000 f.c.<br>(53,800 Lux) |
| **Fertiliser** | Less than 100 ppm N<br>(Less than 0.7 EC) | Less than 100 ppm N<br>(Less than 0.7 EC) | 100 to 175 ppm N<br>(0.7 to 1.2 EC) | 100 to 175 ppm N<br>(0.7 to 1.2 EC) |
| **PGR** | | ancymidol/2 ppm/Spray | ancymidol/2 ppm/Spray | ancymidol/2 ppm/Spray |

### Vernalisation

Yes - Low vernalisation requirement, only 4 weeks at 50-55°F (10-13°C) from 5 to 6 true leaves onwards.

### Juvenility

Minimum 5 to 6 true leaves

### Propagation Key Tips

Maintaining moisture above level 3 in Stage 1 and 2 is critical for germination and seedling development. Responsive to weekly ancymidol 2 ppm spray or ancymidol 2 ppm/daminozide 2,500 ppm tank mix beginning 3 weeks from sowing.

## Growing on to Finish

| Growing on Temperature | Target Media pH/EC (1:2) | Fertiliser | Daylength |
|---|---|---|---|
| **(day)** 65-68°F (18-20°C)<br>**(night)** 50-54°F (10-12°C) | 5.8-6.2 pH<br>1.3-1.8 mmhos/cm | 100 to 175 ppm N<br>(0.7 to 1.2 EC) | Day Neutral |

## Crop Scheduling

| Crop Type | Container Size | Plugs/Pot | Crop Time | Season | PGR |
|---|---|---|---|---|---|
| Annual | 4"/4.5"/Quart/10 cm | 1 (ppp) | 12-16 (weeks) | Spring, ADT 55°F (13°C) | daminozide/ancymidol tank mix 2,500-10 ppm Spray |
| Overwinter | 4"/4.5"/Quart/10 cm | 1 (ppp) | 20-30 (weeks) | Early Spring, ADT 50°F (10°C) | daminozide/ancymidol tank mix 2,500-10 ppm Spray |
| Overwinter | 5"/6"/1 Gallon/15 cm | 2-3 (ppp) | 20-30 (weeks) | Early Spring, ADT 50°F (10°C) | daminozide/ancymidol tank mix 2,500-10 ppm Spray |
| Annual | 5"/6"/1 Gallon/15 cm | 2-3 (ppp) | 13-16 (weeks) | Spring, ADT 55°F (13°C) | daminozide/ancymidol tank mix 2,500-10 ppm Spray |

### Chemical Sensitivity

Cycocel causes phytotoxicity

### Bulking Strategy

For best and richest flowering, allow plants 3 to 4 weeks to bulk after transplant; best in the cooler season.

### Finishing Key Tips

Avoid flowering beneath the foliage in very short natural daylength period. When producing under natural daylength shorter than 11 hours, 15 minutes during flower development stage (about 4 weeks from your target sales date), flowers could hide beneath foliage. Supplemental long day lighting (night interruption from 10 p.m. to 2 a.m. or 16-hour daylength extension) will achieve flower stem elongation.

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


Blue White


Purple Blue


Purple White


Purple Yellow


Red White


Red Yellow


White


Yellow


Mixture

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