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|----------------------------|---|
| <b>Life cycle</b>          | Annual  |
| <b>Family/origin</b>       | Balsaminaceae /Africa   |
| <b>Popular uses</b>        | Outdoor containers, suitable for borders and beds   |
| <b>Mature plant height</b> | 15-20 cm (5-8")   |
| <b>Mature plant width</b>  | 20-25 cm (8-10")  |
| <b>Pot size</b>            | Packs, 8-10 cm (3-4") pots  |
| <b>Plants per pot</b>      | 1<br>3 to 5 plants for baskets and large pots   |
| <b>Sun exposure</b>        | Partial shade-shade   |
| <b>Water requirements</b>  | Reduced, avoid wet conditions   |
| <b>Flowering time</b>      | Entire growing season   |
| <b>Media</b>               | A well-drained, porous media is best to prevent over watering<br>pH 5.5-6.2<br>EC 1.4-1.8 (100-150 ppm)   |
| <b>Growing temperature</b> | Start at 18-20°C (64-68°F)<br>Lower the temperature after root at 15-18°C (59-64°F)<br>Avoid wet conditions at night                                      |
| <b>Light</b>               | Impatiens are shade plants and should not be exposed to excessive amounts of sun. If properly hardened, impatiens can handle up to 4 hours of morning sun |
| <b>Fertilizer needs</b>    | Balanced N:P:K fertiliser as needed recommended, use calcium based fertilizers<br>EC 1.8-2.2 (50-200 ppm)   |
| <b>Crop time</b>           | 10-12 weeks   |
| <b>Hardiness zone</b>      | N/A   |



Mixed

### Growth regulators

Impatiens responds to: Daminozide (Dazide or B-nine), Paclobutrazol (Bonzi) however careful monitoring of water, light and fertilizer applications can keep growth in check

### Common Diseases

Alternaria leaf spot, Fusarium wilt, Phytophthora, Downy mildew

### Common Pests

Thrips, Leafminer, Aphids and Whitefly

### Pinching

No need

# Impatiens F1 Balance™ - Impatiens walleriana

## Plug Production



|  |  |
|--|--|
| <b>Seed forms</b>                          | Raw  |
| <b>Seed count</b>                          | 2,000-2,250/ gram (56,000 -63,000 seeds/ oz) <i>Varies by lot!</i>   |
| <b>Recommended plug size</b>               | 480-264  |
| <b>Seeds cell</b>                          | 1  |
| <b>Vermiculite cover</b>                   | Light  |
| <b>Stage 1<br/>Germination</b>             | <p>Media EC: &lt;0.75</p> <p>Media pH: 6.2-6.5; low pH (&lt;5.5) may promote shoot tip abortion and allow sodium to become toxic</p> <p>Temperature: 21-24°C (71-76°F) growing medium temperature</p> <p>Maintain high moisture levels and keep a relative humidity of 95-100%</p> <p>Temperature above the recommended levels may induce thermal dormancy which inhibits the germination. Temperature below the recommended levels will decrease the speed and uniformity of germination. Temperature below 18°C (65°F) may cause tip abortion and leaf malformation</p> <p>Light is necessary for the germination process</p> <p>Provide 10-100 lux (1-10 fc) in the chamber</p> |
| <b>Stage 2<br/>Stem and cotyledon</b>      | <p>Reduce moisture levels to obtain optimum root penetration and to prevent fungal diseases</p> <p>Prevent wet foliage after nightfall</p> <p>Temperature: 20-22°C (68-72°F)</p> <p>Fertilization: EC 0,7-1.2 (100-175 ppm)</p> <p>Supplemental light at 3,500-4,500 lux (350-450 fc) for 14 days will help to produce more vigorous and strong seedlings</p>  |
| <b>Stage 3<br/>Growth and development</b>  | <p>Gradually lower temperatures to 20-22°C (68-72°F)</p> <p>Increase fertilization levels up to EC 0.7-1.2 (100-175 ppm) with every second or third watering</p> <p>A minimal use of fertilizer will keep the seedlings compact and stimulate flowering</p> <p>Start to decrease the moisture levels to avoid stretching of the seedlings</p>  |
| <b>Stage 4<br/>Ready for transplanting</b> | The plugs can be finished at 20-22°C (68-72°F) throughout the whole plug stage PH levels need to be maintained at 6.0-6.5  |
| <b>Plug crop time</b>                      | 4-5 weeks  |
| <b>Approximate finish time</b>             | 5-6 weeks  |
| <b>Special tips</b>                        | Plants require good light but shade lightly on very bright days to keep flowers above the foliage and prevent leaf burn. Space plants well to avoid stretching   |