

A dense field of bright pink Impatiens flowers with green leaves, filling most of the page. A white rectangular box is centered over the top half of the image, containing the title text. The right side of the page features a vertical yellow bar with a white curved graphic element.


# **SPRING BEDDING PLANTS**

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**AGRONOMIC PROGRAM**

 **Ornamentals**

**syngenta®**



Spring production can be the most difficult time of year because of the large variety of bedding plants produced. Ensuring your crops are protected from propagation to shipping is essential for a successful season.

The following agronomic programs may be used as examples for controlling common diseases and insects in bedding plants or other herbaceous crops. Alternating fungicides and insecticides with different modes of action are used in this program for optimal control and proactive resistance management.

### **SEEDLINGS & PLUG PRODUCTION**

Sanitation is critical to produce healthy plugs or liners. Fungus gnats, shore flies, root and crown rots, and damping-off can be problematic. Start the following applications four days after stick or when the first true leaves emerge.

## AGRONOMIC PROGRAM: PROPAGATION OF PLUGS & LINERS

WEEK OR TREATMENT	APPLICATION	TREATMENT (PER 100 GAL)	FRAC / IRAC #	TARGET DISEASES & INSECTS
1 (4-7 days after stick)	Heavy spray to wet foliage and stem	Mural® fungicide 4 oz. Citation® insect growth regulator 2.66 oz.	7 + 11 17	Botrytis (foliar & stem rot), stem rot caused by <i>Pythium spp.</i> , <i>Phytophthora spp.</i> , <i>Rhizoctonia spp.</i>  Fungus gnats, Shore flies
2	Spray	Daconil® Ultrex <b>OR</b> Daconil Weatherstik® fungicides 22 oz.	M5	Botrytis, Bacterial & Fungal leaf spots, Powdery mildew, Rust
3 (If not drenched earlier)	Drench	Subdue Maxx® fungicides 1 fl. oz. + Mural 2 oz.	4 + 7 + 11	<i>Pythium</i> , <i>Phytophthora</i> , <i>Rhizoctonia</i> , Downy mildew
4	Spray	Daconil Ultrex <b>OR</b> Daconil Weatherstik 22 oz.	M5	Botrytis, Bacterial & Fungal leaf spots, Powdery mildew, Rust
5	Spray	Micora® fungicide 4-8 fl. oz.	40	<b>Optional treatment</b> for crops prone to Downy mildew and <i>Phytophthora</i> diseases  Aphids, Whiteflies
	Spray or drench	Endeavor® insecticide 5 oz.	9B	
5/6	Spray	Postiva® fungicide 14-16 fl. oz.	3 + 7	Botrytis
		Avid® 0.15 EC insecticide 8 fl. oz.	6	Broad mites, Two-spotted spider mites, Thrips, Aphids, Whiteflies



## AGRONOMIC PROGRAM: TRANSPLANT TO FINISH

WEEK OR TREATMENT	APPLICATION	TREATMENT (PER 100 GAL)	FRAC / IRAC #	TARGET DISEASES & INSECTS
1	Drench	Subdue Maxx 1 fl. oz. + Mural 2 oz. <b>OR</b> *Medallion® WDG fungicide 1-2 oz.  Citation 2.66 oz. <i>Repeat as needed on a 7-14-day interval</i>	4 + 7 + 11 <b>OR</b> 4 + 12  17	<i>Pythium, Phytophthora</i> , Downy mildew, <i>Rhizoctonia, Fusarium</i>  Fungus gnats, Shore flies <i>Treat plants, floors and under benches</i>
2	Spray	Postiva 14-16 fl. oz.  Avid 0.15 EC 8 fl. oz.	3 + 7  6	Botrytis, Bacterial & Fungal leaf spots, Powdery mildew, Rust  Broad mites, Two-spotted spider mites, Thrips, Aphids, Whiteflies
3	Spray or Drench	Micora 4-8 fl. oz. (Spray) <b>OR</b> Segovis® fungicide 1-2 fl. oz.  **Mainspring® GNL insecticide 4-8 fl. oz.	40 <b>OR</b> 49  28	<b>Optional treatment</b> for crops prone to Downy mildew and <i>Phytophthora</i> diseases  Thrips, Aphids, Whiteflies
4	Spray	Postiva 14-16 fl. oz.	3 + 7	Botrytis, Bacterial & Fungal leaf spots, Powdery mildew, Rust
5	Spray or Drench	Segovis 1-2 fl. oz.  Mainspring GNL 4-8 fl. oz.	49  28	<b>Optional treatment</b> for crops prone to Downy mildew and <i>Phytophthora</i> diseases  Thrips, Aphids, Whiteflies
6/7	Spray	*Palladium® fungicide 4 oz. <b>OR</b> Mural 6-7 oz.  Avid 0.15 EC 8 fl. oz.	9 + 12 <b>OR</b> 7 + 11  6	Botrytis  Broad mites, Two-spotted spider mites, Thrips in flowers
8/9	Spray	Postiva 14-16 fl. oz.  Conserve® SC insect control 6 fl. oz. <b>OR</b> XXpire® insecticide 3 oz.	3 + 7  5 <b>OR</b> 5 + 4C	Botrytis  Thrips in flowers
10/11	Spray	Decree® 50 WDG fungicide 16-24 fl. oz.  Conserve SC 6 fl. oz. <b>OR</b> XXpire 3 oz.	17  5 <b>OR</b> 5 + 4C	Botrytis  Thrips in flowers

\*Use Medallion WDG on crops prone to *Thielaviopsis*. Do not use Medallion WDG or Palladium on Geraniums or Impatiens.

\*\*Spray 4-inch pots and smaller. For crops 6-inch and larger, drench using 8 fl. oz. rate for longer residual control.

## COMMON SPRING PESTS

Although many insects and diseases can affect spring production, powdery mildew and thrips are two of the most common. Scouting is necessary to limit development and reduce symptoms in the greenhouse. Management practices, such as inspecting all incoming plant material, can prevent insects or diseases from establishing.



**Thrips injury on impatiens**



**Powdery mildew on petunia**



**Aphids on pansy**



**Botrytis on impatiens**



**Broad mite damage on New Guinea impatiens**



**Early Cercospora leaf spot on pansy**

*All photos taken by Nancy Rechcigl, Syngenta*





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