

Pumpkin Diseases and their Time of Development

Disease	Symptoms-Infection	Fungicide Timing
Seedling diseases (Rhizoctonia, Fusarium, Pythium)	Seed emergence	Treated seeds
Powdery Mildew	August, but as early as early/mid July	Preventative spray, weekly from early/mid August
Anthracnose, Alternaria, Cercospora Leaf Spots	Early July	All season, preventative spray weekly from week 1
Plectosporium Blight	Fruit set	Preventative spray at fruit set and every 2 weeks, total 2-3 applications, scout petioles
Downy Mildew	Early August or later	Preventative until alert, then use systemics, monitor movement
Angular Leaf Spot/Bacterial Leaf Spot	Early July	Preventative if field has history of disease or weather is warm and wet, spray preventatively
Phytophthora Blight	Early July	If field has history of disease, esp if weather is warm and wet, start spraying at first sign of disease
Phytophthora Fruit Rot	Fruit set or later	If field has history of disease, esp if weather is warm and wet, start spraying at first sign of disease
Fusarium Crown Rot	Early August	If field has history of disease, esp if weather is warm and wet, start spraying at first sign of disease
Fusarium Fruit Rot	Fruit set or later	If field has history of disease, esp if weather is warm and wet, start spraying at first sign of disease

Considerations for a Fungicide Spray Schedule

Timing	Target
Seeding	Seed and seedlings <ul style="list-style-type: none"> Seedling diseases, damping off *Use treated seed when possible. *Consider resistant cultivars.
Vine-touching	Begin spray schedule approx. 4 weeks after seeding (this is week 1) <ul style="list-style-type: none"> Leaf and vine diseases, fungal
Fruit set	Fruit set (approx week 4 of schedule) <ul style="list-style-type: none"> Leaf and vine diseases Powdery mildew? Plectosporium blight *Systemic fungicides in rotation.
Fruit growth	Fruit set until harvest, weeks 5-8 <ul style="list-style-type: none"> Leaf and vine diseases Powdery mildew Downy mildew? Plectosporium blight *Scout regularly. *Rotate fungicides.
Mature fruit	Some fruit turn orange, begin to mature <ul style="list-style-type: none"> Powdery mildew Downy mildew? *As long as weather is conducive for disease.
Post-harvest	*Remove fruit and vines from fields immediately after harvest. *Consider rotating out of cucurbits for 2-3 years, esp if fields have a history of disease.

Sample Spray Schedule

Week 1-3	Bravo or Manzate
4	Bravo or Manzate + Cabrio ^R , Quadris ^R , Quadris Top, or Inspire Super
5	Bravo or Manzate + Rally or Quintec
6	Bravo or Manzate + Cabrio ^R , Quadris ^R , Quadris Top, or Inspire Super
7	Bravo or Manzate + Rally or Quintec
8	Bravo or Manzate + Cabrio ^R , Quadris ^R , Quadris Top, or Inspire Super
9-10	Bravo or Manzate