

2019 Dry Bean Seed Treatment Options

Disease Reference — Action Thresholds and Registered Seed Treatment Options

Pathogen (Disease)	Threshold on Seed	Action If Over Threshold	Seed Treatment Options												
			Agrox® FL	Allegiance® FL	Apron® Advance	ApronMaxx® RTA with INTEGO™	Belmont™ 2.7 FS	CruiserMaxx® Vibrance Beans**	Heads Up® Plant Protectant	Insure Pulse®	INTEGO™ Solo Fungicide	Trilex® EverGol®	Trilex® EverGol® SHIELD**	Vibrance® Maxx RTA / RFC	Vibrance® Maxx RFC with INTEGO™
<i>Aphanomyces euteiches</i>	Not applicable Soil-borne disease only	Use seed treatment if: History of disease, provides early season protection only				X*					X*			X*	
<i>Ascochyta fabae</i> (Ascochyta Blight)	Greater than 10%	Use seed treatment								X	X*	X*			
<i>Botrytis</i> spp. (seed-borne only)	10% on seed (total of <i>Botrytis</i> , <i>Fusarium</i> , and <i>Sclerotinia</i>) Soil-borne as well	Use seed treatment								X*		X	X		
<i>Colletotrichum</i> spp. (Anthracnose)	Rarely found on seed Primarily soil-borne disease	Use seed treatment if: History of disease, expecting humid/moist conditions			X	X		X		X*			X	X	X
<i>Fusarium</i> spp.	10% on seed (total of <i>Botrytis</i> , <i>Fusarium</i> , and <i>Sclerotinia</i>) Soil-borne as well	Use seed treatment			X	X		X		X		X	X	X	
<i>Pythium</i> spp.	Not applicable Soil-borne disease only	Use seed treatment if: History of disease, seeding into saturated soil	X	X	X	X	X	X	X	X	X	X	X	X	X
<i>Rhizoctonia</i> spp.	Unknown Primarily soil-borne disease	Use seed treatment if: History of disease, seeding under cool-moist conditions			X	X		X	X*	X		X	X	X	X
<i>Sclerotinia sclerotiorum</i> (seed-borne only)	10% on seed (total of <i>Botrytis</i> , <i>Fusarium</i> , and <i>Sclerotinia</i>) Soil-borne as well	Use seed treatment							X*						
General seed rot, root rot, damping-off, and seedling blight	Not applicable	Use seed treatment if: History of disease, seeding under cool-moist conditions	X												

* Product registered for suppression only

** Product contains an insecticide component

(See next page for seed treatments to manage insect pests)

2019 Dry Bean Seed Treatment Options (continued)

Insect Reference—Recommendations and Registered Seed Treatment Options

		Seed Treatment Options			
		Cruiser® SFS	CruiserMaxx® Vibrance Beans**	Stress Shield® 600	Trilex® EverGol® Shield**
Insect	Recommendation				
Seed Corn Maggot	Use seed treatment if: History of insect pressure on the field or in the nearby area	X	X		
Wireworm	Use seed treatment if: History of insect pressure on the field or in the nearby area	X	X	X	X

** Product contains fungicide components

Action thresholds have not been identified for dry bean disease and insect risks, so the recommendations provided are based on thresholds from similar crops, or rules of thumb.

Understanding seed quality and using seed treatments on pulse seed when risk of disease or insect damage is present, is critical to maximizing yield.

Fungicide seed treatments protect the seed and seedlings from soil-borne diseases, as well as those diseases found on the surface of the seed or carried inside of the seed. Seed treatments will not act as a cure for seed that has high disease levels or is poor quality.

In order for a seed treatment to provide effective protection, it is important to ensure that adequate coverage of the seed is achieved and appropriate rates are used for the target pest(s).

Seed treatments will breakdown as the plant begins to develop and as a result, their limit of protection to the seed will only last for the early part of the plant's growth.

When using a seed treatment in combination with an inoculant, it is important to check with the inoculant manufacturer to ensure that there is compatibility with the seed treatment, prior to use.

Seed treated with a seed treatment may pose a risk to other organisms or plants in the environment. Dispose of all leftover treated seed properly, and do not leave treated seed on the soil surface.

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