

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 (Norac Concepts)	Allegiance® FL (Bayer)	ApronMaxx® RTA + Vibrance 500 FS (co pack) (Syngenta Canada)	Belmont™ 2.7 FS (UAP)	CruiserMaxx® Vibrance Beans** (Syngenta Canada)	Heads Up® Plant Protectant (HeadsUp)	Insure Pulse® (BASF Canada)	INTEGO™ Solo Fungicide (Valent Canada/NuFarm Agriculture)	Trilex® EverGol® (Bayer)	Trilex® EverGol® SHIELD** (Bayer)	Vibrance® Maxx RFC (Syngenta Canada)	Rancona Trio (UPL Agro Solutions Canada)	Vitaflo® Brands (various)	Zeltera Fungicide (Valent Canada/NuFarm Agriculture)
<i>Aphanomyces euteiches</i>	Not applicable Soil-borne disease only	Use seed treatment if: History of disease, provides early season protection only								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 Botrytis, Fusarium, and Sclerotinia) 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	
<i>Fusarium</i> spp.	10% on seed (total of Botrytis, Fusarium, and Sclerotinia) 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		
<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	X
<i>Sclerotinia sclerotiorum</i> (seed-borne only)	10% on seed (total of Botrytis, Fusarium, and Sclerotinia) Soil-borne as well	Use seed treatment							X*			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		X									x		

* Product registered for suppression only

** Product contains an insecticide component

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

Dry Bean Seed Treatment Options (continued)

Insect Reference - Recommendations and Registered Seed Treatment Options

Insect	Recommendation	Seed Treatment Options				
		Cruiser® 5FS (Syngenta Canada)	CruiserMaxx® Vibrance Beans** (Syngenta Canada)	Lumivia™ CPL (Corteva Agriscience)	Stress Shield® 600 (Bayer)	Trilex® EverGol® SHIELD** (Bayer)
Armyworm and Cutworm	Use seed treatment if: History of insect pressure on the field or in the nearby area			X		
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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