

Management of White Mold in Dry Beans with Foliar Fungicides

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Objective: To evaluate the efficacy of available foliar fungicides to manage white mold of dry beans.

Methodology:

Location: NCREC, Minot, ND

GPS Coordinates: N: 48.17178 W: -101.28726

Previous Crop: Sunflower with heavy incidence of White Mold

Tillage: No-Till

Design: Randomized Complete Block Design with 4 replications

Plot Dimensions: 5*25 sq. ft.

Spacing: 21 inch between the rows

Cultivar: Stampede

Planting Date: June 4, 2014

Seed Rate: 75000 plants/acre

Diseases to Evaluate: White Mold

Inoculation Methods: None

Diseases observed: White Mold incidence

Other Practices: All the agronomic practices such as fertilizers, weedicides were applied at recommended timings of the crop season as per the crop production recommended practices.

Fungicides Timing: First Spray at bloom initiation (8/1/14); second spray: 14 days after the first spray (8/14/14).

Harvest Date: October 8, 2014

Results:

Table 1: Efficacy of various fungicides in managing White Mold incidence in Dry Beans and their impact on yield parameters.

Treatments*	Dosage@ Fl. oz/ac	White Mold Incidence*	Yield in (lb /ac)
Non-Treated	--	20.1	2570.5
Approach	9	17.22	3407.5
Approach+Topsin	9+20	9.58	3221.7
Approach+Topsin	9+30	4.8	3278.2
Topsin	30	12.7	2899.1
LSD (P=.05)	--	10.64	1096.7
CV%	--	53.65	23.14

* Non-Ionic Surfactant @ 0.25% v/v was added to each fungicidal treatment.