

### Durum (Lebsock) Uniform Fungicide Study, Langdon 2010

Scott Halley, North Dakota State University-Langdon Research Extension Center North Dakota State University, Langdon, North Dakota, 58249 Ph.701-256-2582. E-mail Scott.Halley@ndsu.edu. Dr. Marcia McMullen, Extension Plant Pathologist, North Dakota State University, Fargo, North Dakota.

Table 1. Fusarium head blight incidence, index and severity, deoxynivalenol (DON) and leaf necrosis by fungicide and durum (Lebsock) growth stage at time of fungicide treatment, Langdon 2010.

Fungicide	Growth Stage	Fusarium Head Blight			DON <sup>1</sup> ppm	Leaf Necrosis %
		Incidence	Index	Head Severity		
		%		%		
Untreated control	Feekes	92.5	16.5	18.9	7.63	32.5
DPX-LEM17	10.51 (early anthesis)	81.3	15.1	21.3	10.48	25.7
A9232D (Cogito EC)	10.51	80.0	9.3	14.1	7.13	35.0
Prosaro	10.5 (or approximately 5 days prior to 10.51)	88.8	16.0	19.8	7.98	14.6
Prosaro	10.5.1	83.3	7.3	16.8	6.83	18.7
Prosaro	5 days after 10.51 treatments are applied	71.3	9.3	16.1	5.90	17.1
Caramba	10.5	90.0	14.2	17.4	7.68	19.5
Caramba	10.5.1	76.3	10.0	16.3	6.23	9.7
Caramba	5 days after 10.5.1 treatments are applied	80.0	10.6	16.5	6.78	17.0
Headline	9.0 (flag leaf fully emerged)	91.3	20.4	23.7	10.13	15.5
Headline	10.0 (boot stage)	90.0	15.5	19.2	9.13	16.9
Headline	10.5	77.5	8.8	14.2	10.38	12.3
LSD <sub>(0.05%)</sub>		13.2	7.1	NS	3.06	NS
Pr>F		0.0341	0.0133	0.0541	0.0294	0.2842
% C.V.		10.94	38.59	22.22	26.49	70.10

<sup>1</sup> DON = Deoxynivalenol

Table 2. Yield and test weight by fungicide, fungicide and adjuvant rate and durum (Lebsock) growth stage at time of fungicide treatment Langdon, 2010.

Fungicide	Fungicide Rate <sup>1</sup>	Growth Stage Feekes	Yield	Test Weight
	Fl. oz./acre		Bu. /acre	Lbs. / bushel
Untreated control	NA		79.5	58.5
DPX-LEM17	24	10.51 (early anthesis)	73.3	58.0
A9232D (Cogito EC)	7	10.51	78.2	58.1
Prosaro	6.5	10.5 (or approximately 5 days prior to 10.51)	78.9	58.6
Prosaro	6.5	10.5.1	83.0	58.7
Prosaro	6.5	5 days after 10.51 treatments are applied	81.1	59.3
Caramba	13.5	10.5	75.9	57.7
Caramba	13.5	10.5.1	85.0	59.3
Caramba	13.5	5 days after 10.5.1 treatments are applied	78.2	58.5
Headline	6	9.0 (flag leaf fully emerged)	72.9	57.9
Headline	6	10.0 (boot stage)	74.6	57.8
Headline	6	10.5	73.2	57.9
LSD <sub>(0.05%)</sub>			7.6	NS
Pr>F			0.0367	0.2170
% C.V.			6.82	1.60

<sup>1</sup> All fungicide treatments except A9232D and DPX-LEM17 included Induce adjuvant at rate of 0.125% v/v. DPX-LEM17 was tank mixed with Induce adjuvant at a rate of 0.25% v/v.

This material is based upon work supported by the U.S. Department of Agriculture, under Agreement No. 59-0790-8-069. This is a cooperative project with the U.S. Wheat & Barley Scab Initiative. Any opinions, findings, conclusions, or recommendations expressed in this publication are those of the author(s) and do not necessarily reflect the view of the U.S. Department of Agriculture.