

**2006 Durum Variety Trial - Continuously Cropped - No-till**

**Hettinger**

Variety	Days to Head	Plant Height	Test Weight	Grain Protein	---- Grain Yield ----			Average Yield	
					2004	2005	2006	2 yr	3 yr
		inches	Lbs/bu	%	----- Bushels per acre -----				
Grenora	63	21	57.7	16.9	35.7	47.8	35.3	41.6	39.6
Mountrail	64	21	57.6	17.0	36.1	45.8	34.5	40.2	38.8
Grande D'oro	63	23	58.6	17.0	30.4	45.4	36.8	41.1	37.5
Lebsock	62	24	58.7	16.5	32.2	46.0	33.4	39.7	37.2
Ben	63	22	57.8	17.8	33.4	43.0	34.9	39.0	37.1
Divide	64	23	57.4	17.2	33.7	42.3	34.2	38.2	36.7
Alkabo	62	22	58.2	16.9	32.5	45.3	30.5	37.9	36.1
Pierce	63	24	57.8	17.6	29.9	45.1	32.2	38.6	35.7
Primo D'oro	62	23	58.4	17.8	32.4	43.4	31.1	37.2	35.6
Belzer	65	25	55.7	17.1	33.5	41.4	30.6	36.0	35.2
Plaza	64	23	57.6	17.2	29.8	41.4	32.0	36.7	34.4
Dilse	65	24	57.4	18.6	32.5	37.0	30.9	34.0	33.5
Rugby	64	24	57.1	18.0	29.2	33.0	31.1	32.0	31.1
Maier*	67	23	53.6	18.4	32.1	49.7	--		
Alzada	60	23	57.6	16.4			35.6		
Strongfield	64	24	57.2	19.4			30.2		
Normano	69	24	54.4	17.3			21.5		
Trial Mean	64	23	57.3	17.6	32.9	44.2	31.6	--	--
C.V. %	1.6	7.5	0.9	3.4	9.6	8.2	8.4	--	--
LSD .05	1	NS	0.7	0.8	4.4	5.1	3.7	--	--
LSD .01	2	NS	1.0	1.1	5.8	6.7	4.9	--	--

\* Maier had very poor stand establishment.

NS = no statistical difference between varieties.

Planting Date: April 11, 2006

Harvest Date: July 24, 2006

Seeding Rate: 1.25 million live seeds / acre (approx. 2.2 bu/A).

Previous Crop: soybean.

Notes: The 2005 and 2006 trials sustained late season heat and moisture stress.

The 2004 trial sustained hard frosts in May and June.

**2006 Durum Variety Trial - Continuously Cropped - No-till Mandan**

Cooperator: USDA-ARS, Mandan

Variety	Test	Grain	---- Grain Yield ----			Average Yield		
	Weight	Protein	2004	2005	2006	2 yr	3 yr	
	Lbs/bu	%	----- Bushels per acre -----					
Mountrail	49.4	17.8	37.6	67.2	27.3	47.2	44.0	
Grenora	52.3	17.3	38.3	67.6	25.7	46.6	43.9	
Ben	52.1	18.9	34.4	68.7	28.6	48.6	43.9	
Lebsock	55.0	17.2	32.6	68.5	27.5	48.0	42.9	
Alkabo	52.3	18.5		69.1	28.1	48.6		
Divide	50.6	18.2		67.0	26.7	46.8		
Trial Mean	51.9	18.0	34.8	68.0	27.3	--	--	
C.V. %	1.4	4.2	13.5	2.4	7.6	--	--	
LSD .05	1.4	NS	NS	NS	NS	--	--	
LSD .01	1.9	NS	NS	NS	NS	--	--	

Planting Date: April 25, 2006

Harvest Date: August 4, 2006

Seeding Rate: 1.25 million live seeds / acre (approx. 2.2 bu/A).

Previous Crop: 2003 = Barley, 2004 = Lentil, 2005 = hrww.

NS = no statistical difference between varieties.

**2006 Durum Variety Trial - Continuously Cropped - No-till Regent**

Cooperators: August and Perry Kirschmann, Regent

Variety	Plant	Test	Grain	---- Grain Yield ----			Average Yield		
	Height	Weight	Protein	2003	2005	2006	2 yr	3 yr	
	inches	Lbs/bu	%	----- Bushels per acre -----					
Mountrail	22	52.3	16.2	44.6	54.3	29.7	42.0	42.9	
Ben	26	54.3	16.9	45.6	51.1	29.7	40.4	42.1	
Lebsock	24	54.2	16.0	45.0	49.0	31.6	40.3	41.9	
Grenora	22	54.2	16.1		48.1	35.1	41.6		
Alkabo	23	54.0	16.0		52.8	29.8	41.3		
Divide	24	53.9	16.3		49.4	31.1	40.2		
Trial Mean	23	53.8	16.2	43.5	50.8	31.2	--	--	
C.V. %	4.0	2.0	2.0	5.4	7.1	5.3	--	--	
LSD .05	1	NS	0.5	NS	NS	2.5	--	--	
LSD .01	2	NS	NS	NS	NS	3.5	--	--	

Planting Date: April 24, 2006

Harvest Date: July 31, 2006

Seeding Rate: 1.25 million live seeds / acre (approx. 2.2 bu/A).

Previous Crop: 2002 & 2004 = Lentil, 2005 = hrww.

NS = no statistical difference between varieties.

**2006 Durum Variety Trial - Continuously Cropped - No-till Scranton**

Cooperators: Neal and Justin Freitag, Scranton

Variety	Plant Height	Test Weight	Grain Protein	---- Grain Yield ----			Average Yield		
	inches	Lbs/bu	%	2004	2005	2006	2 yr	3 yr	
				----- Bushels per acre -----					
Mountrail	32	55.4	15.4	65.1	54.6	55.2	54.9	58.3	
Grenora	29	56.6	15.7	68.3	49.6	55.8	52.7	57.9	
Ben	33	56.9	16.2	65.1	52.0	53.1	52.6	56.7	
Lebsock	32	58.2	15.6	64.8	45.9	52.3	49.1	54.3	
Divide	32	56.8	15.8		53.0	52.1	52.6		
Alkabo	32	55.3	15.6		50.4	54.3	52.4		
Trial Mean	32	56.5	15.7	63.1	50.9	53.8	--	--	
C.V. %	4.9	1.8	1.9	5.7	7.2	3.9	--	--	
LSD .05	2	1.5	0.5	NS	NS	NS	--	--	
LSD .01	NS	2.1	NS	NS	NS	NS	--	--	

Planting Date: April 24, 2006  
 Harvest Date: August 2, 2006  
 Seeding Rate: 1.25 million live seeds / acre (approx. 2.2 bu/A).  
 Previous Crop: 2003 & 2004 = Lentil, 2005 = hrww  
 NS = no statistical difference between varieties.

**Durum in the West River Region**

**Combined Means**

Variety	Days to Head	Plant Height	Seeds / Pound	Test Weight	Grain Protein	---- Grain Yield ----			Average Yield	
		inches	#	lbs/bu	%	2004	2005	2006	2 yr	3 yr
						----- Bushels per acre -----				
Mountrail	64	27	15,216	54.1	16.6	40.2	49.0	37.9	43.4	42.4
Ben	62	30	15,502	55.7	17.5	37.2	48.6	37.4	43.0	41.1
Lebsock	61	29	14,177	56.7	16.4	36.1	46.8	37.4	42.1	40.1
Grenora	61	27	14,829	55.3	16.5		52.3	39.4	45.8	
Alkabo	62	28	13,040	55.8	16.6		51.7	37.9	44.8	
Divide	64	28	15,074	54.7	17.0		48.2	38.2	43.2	
# of Locations*	2	5	1	5	6	8	8	6	14	22

\* Locations: 2006 = Hettinger, Dickinson, Scranton, Regent, Mandan & Ralph, SD.  
 2005 = Hettinger, Dickinson, Scranton, Regent, Mandan, Hannover, Glen Ullin & Ralph, SD.  
 2004 = Hettinger, Dickinson, Scranton, Selfridge, New Leipzig, Mandan, Ralph & Bison, SD.