

2004 Durum Variety Trial - Continuously Cropped - No-till

Hettinger

Variety	Days to Head	Plant Height	Test Weight	Grain Protein	---- Grain Yield ----			Average Yield	
					2002	2003	2004	2 yr	3 yr
		inches	Lbs/bu	%	----- Bushels per acre -----				
Mountrail	78	23	60.8	16.1	22.6	44.3	36.1	40.2	34.3
Lebsock	78	25	60.4	16.3	26.0	44.2	32.2	38.2	34.1
Ben	77	26	60.5	16.6	22.8	43.8	33.4	38.6	33.3
Renville	80	25	60.2	16.1	26.2	40.4	32.5	36.4	33.0
Munich	76	23	60.4	15.9	22.0	43.8	32.7	38.2	32.8
Belzer	79	24	59.2	15.6	21.7	39.5	33.5	36.5	31.6
Monroe	73	25	60.3	16.4	24.2	36.6	30.5	33.6	30.4
Dilse	81	24	60.1	17.0	22.0	36.6	32.5	34.6	30.4
Pierce	78	22	61.0	15.8	22.1	38.0	29.9	34.0	30.0
Rugby	79	27	59.8	17.0	21.6	38.9	29.2	34.0	29.9
Plaza	79	22	61.0	16.3	22.3	36.5	29.8	33.2	29.5
Maier	79	25	59.4	17.2	17.3	38.2	32.1	35.2	29.2
AC Avonlea	76	25	61.4	16.5		39.9	38.7	39.3	
Alzada	73	24	60.8	15.9			33.1		
Primo D'Oro	75	25	60.6	16.2			32.4		
Trial Mean	78	24	60.5	16.1	23.4	39.8	32.9	--	--
C.V. %	1.9	6.4	1.0	2.1	15.3	10.4	9.6	--	--
LSD .05	2	2	0.8	0.5	NS	5.8	4.4	--	--
LSD .01	3	3	1.1	0.6	NS	7.7	5.8	--	--

Planting Date: April 5, 2004

Harvest Date: August 9, 2004

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

Previous Crop: 2001 = barley, 2002 & 2003 = soybean.

Notes: The 2002 trial sustained severe heat and moisture stress. The 2003 trial sustained late season heat and moisture stress. The 2004 trial sustained hard frosts on May 13 (18° F), May 14 (16° F) and on June 18 (25° F).

NS = no statistical difference between varieties.

2004 Durum Variety Trial - Continuously Cropped - No-till Mandan

Variety	Plant Height	Test Weight	Grain Protein	---- Grain Yield ----			Average Yield		
	inches	Lbs/bu	%	2001	2003	2004	2 yr	3 yr	
				----- Bushels per acre -----					
Mountrail	27	55.2	17.9	50.3	42.4	37.6	40.0	43.4	
Ben	32	56.3	17.7	42.8	44.9	34.4	39.6	40.7	
Pierce	31	56.6	17.8	43.4	42.2	31.9	37.0	39.2	
Lebsock	27	57.0	17.4	43.1	40.4	32.6	36.5	38.7	
Maier	30	56.2	18.4	37.3	39.4	35.9	37.6	37.5	
Dilse	30	56.4	18.4		40.4	32.8	36.6		
Renville	30	55.7	18.0			34.4			
Trial Mean	29	56.2	17.8	43.4	41.7	34.8	--	--	
C.V. %	6.4	0.9	2.1	6.9	2.8	13.5	--	--	
LSD .05	NS	0.9	0.7	5.4	1.7	NS	--	--	
LSD .01	NS	NS	0.9	7.7	2.4	NS	--	--	

Planting Date: April 13, 2004

Harvest Date: August 13, 2004

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

Previous Crop: 2000 – 2003 = Barley.

NS = no statistical difference between varieties.

Notes: The 2004 trial sustained moderate moisture stress.

2004 Durum - Continuously Cropped - No-till**New Leipzig**

Variety	Plant Height	Test Weight	Grain Protein	--- Grain Yield ---			Average Yield	
	inches	Lbs/bu	%	2002	2003	2004	2 yr	3 yr
				----- Bushels per acre -----				
Mountrail	24	57.7	17.5	14.0	23.7	25.0	24.4	20.9
Ben	25	58.7	17.8	15.4	23.1	23.4	23.2	20.6
Maier	25	55.9	18.4	14.2	21.8	23.2	22.5	19.7
Pierce	25	58.6	17.1	12.5	21.0	24.3	22.6	19.3
Lebsock	24	58.1	17.9	11.1	22.6	22.2	22.4	18.6
Dilse	22	56.0	18.5	11.3	20.0	23.6	21.8	18.3
Trial Mean	24	57.7	17.8	13.1	22.0	24.0	--	--
C.V. %	4.3	1.7	1.1	11.3	14.3	10.6	--	--
LSD .05	2	1.4	0.3	2.2	NS	NS	--	--
LSD .01	2	2.0	0.4	3.1	NS	NS	--	--

Planting Date: April 14, 2004

Harvest Date: August 11, 2004

Seeding Rate: 1.25 million live seeds / acre (approx. 1.9 bu/A).

Previous Crop: 2001 – 2003 = Lentil.

NS = no statistical difference between varieties.

Notes: The 2002, 2003 and 2004 trials sustained severe moisture stress.

2004 Durum Variety Trial - Continuously Cropped - No-till Scranton

Variety	Plant Height	Test Weight	Grain Protein	---- Grain Yield ----			Average Yield		
	inches	Lbs/bu	%	2002	2003	2004	2 yr	3 yr	
				----- Bushels per acre -----					
Mountrail	36	58.8	15.5	39.1	38.2	65.1	51.6	47.5	
Lebsock	35	60.6	15.2	41.1	36.1	64.8	50.4	47.3	
Ben	37	61.3	15.2	38.1	35.8	65.1	50.4	46.3	
Dilse	34	60.0	16.4	40.3	35.3	59.7	47.5	45.1	
Maier	33	59.2	16.0	41.9	34.7	58.1	46.4	44.9	
Pierce	37	60.3	15.4	39.2	33.8	60.4	47.1	44.5	
Trial Mean	35	60.1	15.5	40.0	35.7	63.1	--	--	
C.V. %	3.4	1.0	3.2	4.9	3.3	5.7	--	--	
LSD .05	2	0.9	0.7	NS	1.8	5.3	--	--	
LSD .01	2	1.3	1.0	NS	2.5	7.3	--	--	

Planting Date: April 14, 2004

Harvest Date: August 16, 2004

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

Previous Crop: 2001 – 2003 = Lentil.

NS = no statistical difference between varieties.

2004 Durum - Continuously Cropped - No-till**Selfridge**

Variety	Plant	Test	Grain	--- Grain Yield ---			Average Yield	
	Height	Weight	Protein	2002	2003	2004	2 yr	3 yr
	inches	Lbs/bu	%	----- Bushels per acre -----				
Mountrail	40	60.2	15.3	22.1	26.8	54.3	40.6	34.4
Lebsock	38	60.6	16.4	20.4	30.3	49.9	40.1	33.5
Pierce	41	61.2	15.5	18.7	29.0	52.3	40.6	33.3
Dilse	38	58.6	16.9	19.4	29.2	49.9	39.6	32.8
Ben	40	60.6	16.4	18.5	28.0	50.3	39.2	32.3
Maier	39	59.8	16.5	19.9	26.8	49.0	37.9	31.9
Trial Mean	39	60.2	16.0	19.8	28.4	52.3	--	--
C.V. %	4.0	1.4	2.5	8.6	8.4	14.2	--	--
LSD .05	2	1.3	0.6	NS	NS	NS	--	--
LSD .01	NS	1.8	0.8	NS	NS	NS	--	--

Planting Date: April 13, 2004

Harvest Date: August 11, 2004

Seeding Rate: 1.25 million live seeds / acre (approx. 1.9 bu/A).

Previous Crop: 2001 – 2003 = Lentil.

NS = no statistical difference between varieties.

Notes: The 2002 and 2003 trials sustained severe moisture stress.