

2006 Oat Variety Trial – No-till

Hettinger

Variety	Days to Head	Plant Height	Test Weight	---- Grain Yield ----			Average Yield	
				2004	2005	2006	2 yr	3 yr
		inches	Lbs/bu	----- Bushels per acre -----				
Killdeer	66	29	34.0	84.4	89.3	104.7	97.0	92.8
Souris	66	27	33.9	87.5	100.6	82.3	91.4	90.1
AC Pinnacle	70	29	33.2	83.5	81.0	103.4	92.2	89.3
Monida	70	30	32.6	82.2	79.9	100.0	90.0	87.4
HiFi	68	31	32.4	74.9	98.1	88.6	93.4	87.2
CDC Pacer	70	32	30.4	88.0	85.3	82.8	84.0	85.4
AC Assiniboia	69	31	34.3	75.4	83.1	95.7	89.4	84.7
Youngs	69	32	32.6	82.6	82.7	87.5	85.1	84.3
Ebeltoft	72	27	32.5	74.7	82.8	94.0	88.4	83.8
Beach	67	33	34.5	74.2	87.5	87.9	87.7	83.2
AC Kaufman	66	31	35.4	77.8	77.9	92.8	85.4	82.8
Otana	70	34	30.8	78.6	82.3	84.6	83.4	81.8
Jerry	64	30	37.7	67.7	84.9	92.4	88.6	81.7
Hystest	65	32	37.9	63.0	91.2	88.2	89.7	80.8
Maida	66	29	34.6	70.0	77.7	90.0	83.8	79.2
AC Ronald	68	27	34.1	63.4	87.2	86.8	87.0	79.1
Morton	66	32	31.4	75.2	76.0	79.0	77.5	76.7
CDC Dancer	69	32	31.5	68.2	74.2	77.4	75.8	73.3
Buff*	61	26	44.4	61.1	78.5	67.2	72.8	68.9
Stark*	72	30	39.1	61.7	59.2	63.6	61.4	61.5
Paul*	73	31	41.3	56.6	44.8	40.6	42.7	47.3
Weaver	72	31	32.2		87.1	75.7	81.4	
Stallion	67	31	36.1			109.8		
Leonard	68	31	33.0			87.7		
Trial Mean	68	31	34.4	74.6	82.2	87.3	--	--
C.V. %	1.6	5.2	3.8	10.4	10.4	7.6	--	--
LSD .05	1	2	1.8	10.9	12.0	9.3	--	--
LSD .01	2	3	2.4	14.4	15.8	12.3	--	--

* Naked (hulless) type.

Planting Date: April 10, 2006

Harvest Date: July 28, 2006

Seeding Rate: 750,000 live seeds / acre (approx. 1.7 bu/A).

Previous Crop: 2005 = fallow, 2004 & 2003 = soybean.

2006 Oat Variety Trial - Continuously Cropped - No-till Mandan

Cooperator: USDA-ARS, Mandan

Variety	Test	---- Grain Yield ----			Average Yield	
	Weight	2003	2004	2006	2 yr	3 yr
	Lbs/bu	----- Bushels per acre -----				
Killdeer	32.5	92.5	86.1	53.3	69.7	77.3
Beach	33.5	85.4	64.2	44.4	54.3	64.7
Morton	30.4	77.5	60.8	47.0	53.9	61.8
Jerry	33.5			54.8		
Maida	33.0			51.1		
Souris	33.3			50.4		
Trial Mean	32.7	80.8	67.0	50.2	--	--
C.V. %	2.1	6.3	9.5	11.3	--	--
LSD .05	1.3	7.9	11.6	NS	--	--
LSD .01	1.8	11.0	16.5	NS	--	--

Planting Date: April 25, 2006 Harvest Date: August 4, 2006
 Seeding Rate: 750,000 live seeds / acre (approx. 1.7 bu/A).
 Previous Crop: 2002 & 2003 = Barley, 2005 = hrww.
 NS = no statistical difference between varieties.
 Notes: The 2006 trial sustained severe heat and moisture stress.

2006 Oat Variety Trial - Continuously Cropped - No-till New Leipzig

Cooperator: Daryl Birdsall, New Leipzig

Variety	Plant	Test	----- Grain Yield -----			Average Yield	
	Height	Weight	2001	2003	2006	2 yr	3 yr
	inches	Lbs/bu	----- Bushels per acre -----				
Killdeer	22	31.6	91.3	72.7	25.8	49.2	63.3
Morton	25	31.6	98.8	50.4	22.3	36.4	57.2
Jerry	23	34.2			25.0		
Maida	24	32.4			24.2		
Beach	22	33.5			23.1		
Souris	20	32.6			15.2		
Trial Mean	23	32.7	94.4	57.7	22.6	--	--
C.V. %	6.0	2.1	13.0	12.9	13.8	--	--
LSD .05	2	1.0	NS	11.5	4.7	--	--
LSD .01	3	1.4	NS	16.1	6.5	--	--

Planting Date: April 24, 2006
 Harvest Date: July 31, 2006
 Seeding Rate: 750,000 live seeds / acre (approx. 1.7 bu/A).
 Previous Crop: 2000 & 2005 = hrww, 2002 = lentil.
 NS = no statistical difference between varieties.
 Note: The 2006 trial sustained severe heat and moisture stress.

2006 Oat Variety Trial - Continuously Cropped - No-till Selfridge

Cooperator: Nick Vollmuth, Selfridge

Variety	Plant Height	Test Weight	----- Grain Yield -----			Average Yield		
	inches	Lbs/bu	2004	2005	2006	2 yr	3 yr	
			----- Bushels per acre -----					
Killdeer	25	31.4	104.0	110.2	38.3	74.2	84.2	
Beach	29	36.1	110.4	92.3	35.0	63.6	79.2	
Morton	28	33.4	105.4	97.7	28.1	62.9	77.1	
Souris	23	33.5		99.4	36.3	67.8		
Maida	28	34.2		101.0	21.0	61.0		
Jerry	28	36.5			40.0			
Trial Mean	27	34.2	100.0	101.4	33.1	--	--	
C.V. %	5.0	1.1	8.2	8.4	11.2	--	--	
LSD .05	2	0.6	NS	NS	5.6	--	--	
LSD .01	3	0.8	NS	NS	7.7	--	--	

Planting Date: April 25, 2006

Harvest Date: August 4, 2006

Seeding Rate: 750,000 live seeds / acre (approx. 1.7 bu/A).

Previous Crop: 2003 & 2004 = lentil, 2005 = hrww.

NS = no statistical difference between varieties.

Note: The 2006 trial sustained moderate heat and moisture stress.

Oat in the West River Region

Combined Means

Variety	Days to Head	Plant Height	Seeds / Pound	Test Weight	---- Grain Yield ----			Average Yield	
		inches	#	lbs/bu	2004	2005	2006	2 yr	3 yr
					----- Bushels per acre -----				
Killdeer	62	26	17,912	32.3	88.9	112.5	63.1	87.8	88.2
Beach	64	29	16,842	34.5	81.5	100.6	57.0	78.8	79.7
Morton	64	29	17,236	31.5	76.4	98.5	54.7	76.6	76.5
Maida	64	28	15,991	33.2		98.9	54.1	76.5	
Jerry	62	28	16,475	35.1			60.5		
Souris	63	24	19,715	33.2			56.2		
# of Locations*	2	4	1	5	6	3	5	8	14

* Locations: 2006 = Hettinger, Dickinson, New Leipzig, Selfridge & Mandan.

2005 = Hettinger, Dickinson & Selfridge.

2004 = Hettinger, Dickinson, Scranton, Selfridge, Mandan & Bison, SD.