

**2008 Oat Variety Trial – No-till**

**Hettinger**

Variety	Days to Head	Plant Height	Lodging	Test Weight	---- Grain Yield ----			Average Yield	
	*	inches	0 – 9**	lbs/bu	2006	2007	2008	2 yr	3 yr
					----- Bushels per acre -----				
Stallion	78	40	4.8	34.8	109.8	77.1	111.1	94.1	99.3
AC Pinnacle	82	40	3.5	33.5	103.4	72.9	115.3	94.1	97.2
Killdeer	77	34	1.8	34.2	104.7	78.0	101.7	89.8	94.8
Monida	81	37	7.0	29.7	100.0	67.6	112.8	90.2	93.5
Maida	77	41	4.0	34.5	90.0	68.9	108.6	88.8	89.2
HiFi	79	37	4.8	34.0	88.6	69.0	108.8	88.9	88.8
Souris	78	36	5.5	34.4	82.3	74.7	108.2	91.4	88.4
Jerry	76	40	4.2	36.2	92.4	70.4	101.4	85.9	88.1
Beach	77	40	4.0	37.0	87.9	65.9	108.7	87.3	87.5
Youngs	80	42	5.5	31.6	87.5	64.9	106.7	85.8	86.4
Hyttest	76	38	3.8	37.6	88.2	70.5	96.5	83.5	85.1
CDC Dancer	79	39	3.8	34.4	77.4	64.7	110.7	87.7	84.3
Morton	78	37	2.0	33.9	79.0	74.3	98.1	86.2	83.8
Otana	80	40	3.8	33.3	84.6	47.4	90.7	69.0	74.2
Buff***	74	38	2.0	39.9	67.2	52.2	82.0	67.1	67.1
Stark***	81	38	4.0	33.0	63.6	47.8	75.8	61.8	62.4
Paul***	82	36	2.5	35.5	40.6	29.2	62.3	45.8	44.0
Furlong	82	36	1.8	34.1			115.4		
CDC Minstrel	78	38	4.2	33.2			112.0		
Trial Mean	79	38	4.2	34.6	87.3	65.6	105.9	--	--
C.V. %	0.9	4.0	37.1	2.2	7.6	10.3	5.3	--	--
LSD .05	1	2	2.2	1.1	9.3	9.5	7.8	--	--
LSD .01	1	3	2.9	1.4	12.3	12.6	10.4	--	--

\*Days to Head = the number of days from planting to emergence of panicle.

\*\* Lodging: 0 = none, 9 = laying flat on ground.

\*\*\* Naked (hulless) type.

Planting Date: April 14

Harvest Date: August 6

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

Previous Crop: 2007 = fallow, 2006 = HRSW, 2005 = fallow.

**2008 Oat Variety Trial - Continuously Cropped - No-till Mandan**

Cooperator: USDA-ARS NGP Research Center, Mandan

Variety	Plant	Test	----- Grain Yield -----			Average Yield		
	Height	Weight	2006	2007	2008	2 yr	3 yr	
	inches	lbs/bu	----- Bushels per acre -----					
Souris	37	32.5	50.4	141.5	137.0	139.2	109.6	
Killdeer	36	29.6	53.3	124.5	142.1	133.3	106.6	
Maida	40	29.1	51.1	136.8	119.0	127.9	102.3	
Beach	43	33.3	44.4	126.1	130.5	128.3	100.3	
Jerry	41	32.0	54.8	111.5	127.2	119.4	97.8	
Morton	43	32.4	47.0	119.9	124.6	122.2	97.2	
Stark*	41	32.6		87.7	102.7	95.2		
Trial Mean	40	31.6	50.2	121.9	126.2	--	--	
C.V. %	3.1	4.6	11.3	6.5	6.0	--	--	
LSD .05	2	2.2	NS	13.9	11.3	--	--	
LSD .01	3	3.0	NS	19.3	15.5	--	--	

\*Stark is a naked (hulless) type.

NS = no statistical difference between varieties.

Planting Date: April 22, 2008

Harvest Date: August 12, 2008

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

Previous Crop: 2005 & 2006 = hrww, 2007 = hrsw.

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

**2008 Oat Variety Trial - Continuously Cropped - No-till New Leipzig**

Cooperator: Daryl Birdsall, New Leipzig

Variety	Plant	Test	----- Grain Yield -----			Average Yield		
	Height	Weight	2006	2007	2008	2 yr	3 yr	
	inches	lbs/bu	----- Bushels per acre -----					
Maida	29	34.6	24.2	80.4	43.9	62.2	49.5	
Morton	28	35.6	22.3	63.9	48.6	56.2	44.9	
Beach	28	37.8	23.1	59.5	47.5	53.5	43.4	
Killdeer	27	34.6	25.8	65.1	37.4	51.2	42.8	
Jerry	29	37.8	25.0	71.4	36.1	53.8	44.2	
Souris	24	36.5	15.2	66.8	37.1	52.0	39.7	
Stark*	27	40.2		33.7	30.9	32.3		
Trial Mean	28	36.7	22.6	63.0	40.2	--	--	
C.V. %	9.0	3.6	13.8	11.9	9.7	--	--	
LSD .05	NS	2.0	4.7	11.1	5.8	--	--	
LSD .01	NS	2.7	6.5	15.2	8.0	--	--	

\* Naked (hulless) type

NS = no statistical difference between varieties.

Planting Date: April 23, 2008

Harvest Date: August 8, 2008

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

Previous Crop: 2005 & 2006 = hrww, 2007 = hrsw.

Note: The 2006 & 2008 trials sustained severe moisture stress.