

**Table 8. Oat Variety Performance Trial in 2007, SLV Research Center¹.
By Merlin A. Dillon, Area Extension Agronomist.**

Variety	Grain Yield ² bu/ac	Bushel Weight lbs/bu	Heading Date (June)	Plant Height in.	Plant Lodging %	Grain Moisture %
Maverick	163.8 a	38.7	34.5	47.7	1.3	20.5
Ab 10971	163.5 a	42.4	34.8	47.7	0.0	16.4
Ab 12770	161.9 a	38.1	34.5	49.5	10.0	18.0
Monida	150.7 a	36.0	34.8	51.9	35.0	18.8
Ab 11136	134.0 b	33.8	38.0	48.9	0.0	30.3
Monico	128.6 bc	39.2	30.0	50.7	0.0	23.3
Ab 8081	115.8 c	38.3	34.5	49.8	0.0	25.3
Trial Avg.	145.5	38.0	34.4	49.5	6.6	21.8
LSD, 10%	15.7	1.1	1.1	1.9	19.3	3.8
CV, %	14.0	2.5	2.6	3.0	239	14.3

¹ Trial conducted at SLV Research Center, 0249 E Road 9 North, Center, CO.

² Tukey's Test; yields followed by the same letter are not statistically different.

³ Yield based on 38 lbs/bu and 12% moisture.

⁴ Date 50% of the plants headed; days after June 1.

Site Information:

Date Planted: April 11

Date Harvested: August 27

Irrigation: center pivot

Seed Rate: 90 lbs/ac

Herbicide: Bronate @ 1.6 pt/ac

Nitrogen: 65 lbs/acre preplant + 30 lb/ac sprinkler

Comments: This trial yielded better than last year, improving from 125 bu/ac to 146 bu/ac. It too was affected by the severe infestation of Cereal Cyst Nematode which reduced tillering and yield. Four varieties comprised the top yield group including Maverick, Ab10971, Ab12770 & Monida. Ab11136 & Ab12770. For the past two years, Maverick has topped the trial and Maverick, Monida and Ab12770 have been in the top yield group both years. Monico performed poorly in comparison. Maverick outyielded Monida slightly both years.

The bushel weights were fairly low this year, averaging 38 lbs/bu. Ab12770 had the highest bushel weight with 42.4 lbs/bu and Ab11136 was lowest at 33.8 lbs/bu. Monico headed earliest on June 30 and Ab11136 headed latest on July 8. Monida and Monico were the tallest varieties. Monida also had the most lodging, 35%, but Monico was among the varieties that had zero lodging. All varieties were high moisture at harvest, averaging 21.8%. Ab11136 had the highest moisture with 30.3%.

Oat Forage Trial

The same oat varieties plus triticale 2700 and oats Everleaf 126 were compared in an adjacent randomized, replicated forage trial. The results are weird because they were not harvested until after most oat varieties had already produced grain. Higher dry matter % indicates more maturity and more grain. Results were Maverick 6.6 a² tons/ac at 24.6% dry matter; Triticale 2700 6.2 ab T/ac at 36% DM; Monida 5.8 bc T/ac at 24.8% DM; Everleaf 126 at 5.7 bc T/ac at only 20.8% DM; and Monico 5.4 c T/ac at 27.3% DM. The dry matter percent indicates that Monico was early maturing (more grain), triticale 2700 was high grain at 36% dry matter, most oat varieties were around 24% dry matter and then Everleaf 126 was still immature

with only 20.8% dry matter. Combining this data means that most oat varieties would have made around 4 tons/acre at normal hay maturity but that Everleaf 126 actually made 5.7 tons/acre since it was harvested at its proper hay maturity.