

Rev. 03/19/04. **USU Extension 2002 cereal forage trial, Delta, UT** (Kevin Gardner Dairy). T.C. Griggs and M.G. Pace. Seeded 3/5/02 @ 33 seeds/ft² (1,450,000 seeds/ac), 5 rows @ 6-in spacing, plot size 3.3 x 17 ft, Anco silty clay loam. Bulk seed/ac: ryegrasses 30; oats 91; 6-row barley 110; triticale 114; wheat 130; 2-row barley 150.

Harvested 6/7-6/25/02 at early-heading stage to approx. 3-in stubble. DM production on 60 C (140 F) oven-dry basis. Flood-irrigated.

Species	Cultivar	DM production	CP	NDF	NDF dig.	IVTDMD
					48 hr	48 hr
		--lb/ac--	--% of DM--	% of NDF		--% of DM--
Oat	Magnum 2000	10938	11.2	62.4	54.0	71.2
Barley, 6-row	Steptoe	10606	10.9	52.6	59.6	78.8
Oat	OSG-FP-1	9614	6.0	61.5	57.0	73.6
Barley, 6-row	Walker	9537				
Barley, 6-row	Millenium	9508				
Barley, 2-row	Xena	9488				
Barley, 2-row	Baronesse	9169				
Oat	OSGML-4-1	8740	7.0	60.0	56.7	74.0
Oat	OSG-CHO-1	8710	7.5	63.1	59.4	74.6
Triticale	TRICAL 2700	8621	12.8	57.8	70.5	83.0
Oat	Otana	8332	8.5	62.5	55.7	72.4
Barley, 6-row	Westford *	8312	14.7	55.1	68.4	82.5
Barley, 2-row	Haybet *	8308	11.6	57.3	61.5	78.1
Oat	Monida	8294				
Oat	Calibre	7903				
Oat	OSGML-4-2	7674	8.7	63.5	52.2	69.7
Wheat, sw	Penawawa	7066				
Barley, 6-row	Statehood	6910				
Oat	Cayuse	6848	5.5	61.3	51.1	70.1
Wheat, hr	Rick	6748	14.7	55.2	66.0	81.3
Triticale	TRICAL 105	6526	14.2	54.8	70.1	83.6
Wheat, sw	Dirkwin *	6393	16.0	52.8	70.7	84.5
Triticale	RSI Castle *	6275	15.2	54.8	69.8	83.5
Wheat, sw	Twin *	5995	15.5	53.7	72.0	84.9
Oat	Triple Crown	5453				
Annual ryegrass, 4n	Hercules	4271				
Annual ryegrass, 2n	Ribeye	3971				
Annual ryegrass	Lonestar	3683				
Italian ryegrass, 4n	Barmultra	3639				
Italian ryegrass, 2n	Bartissimo	2008				
Mean		7344	11.4	58.0	62.6	78.1
Signif. of F test		<0.01	<0.01	0.06	<0.01	<0.01
LSD (0.05)**		2026	4.1	7.8	6.8	5.4
LSD (0.30)		1059	2.0	3.9	3.4	2.7
CV (%)***		19	16	6	5	3

*Signifies awnless/awnletted types.

**LSD = least significant difference. At probability levels of 5% or 30% of declaring differences due to chance when true differences among entries do not exist, the least significant difference is the minimum difference between adjacent entries in order for them to be declared significantly different.

***CV = coefficient of variation, calculated as experimental error as a percentage of the mean performance of all hybrids. The CV is interpreted as an index of the precision with which differences among hybrids can be detected.

CP=Crude protein; NDF=neutral detergent fiber (total cell wall or fiber);

NDFD=neutral detergent fiber digestibility in rumen fluid; IVTDMD=in vitro true dry matter digestibility in rumen fluid.