

**2006 Integrating Annual Forage Crops Trial****Hettinger**

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Crop	Variety	Winter Surv.	Heading Date	Plant Height	Harvest Moisture	Forage Yield	Crude Protein	ADF	NDF	Ca	P	K	RFV	Nitrate**
		%		Inches	%	Tons/A*	%	%	%	%	%	%	%	%
Winter Wheat	Willow Creek	50	June 16	35	62	1.71	16.9	33.8	60.8	0.28	0.28	1.98	95.7	0.08
Winter Wheat	Ransom	57	June 8	25	58	1.43	13.7	35.1	62.0	0.27	0.24	1.57	92.4	0.04
Forage Barley	Hayes	--	July 3	20	65	1.36	22.3	26.3	53.8	0.36	0.32	3.15	118	0.53
Oat	Monida	--	July 3	20	70	0.94	21.1	27.7	54.2	0.39	0.30	3.86	116	0.51
Triticale	Trical 2700	--	June 30	32	71	0.70	19.7	31.5	58.8	0.32	0.31	3.13	102	0.15
Trial Mean		53	June 25	26	65	1.19	18.7	30.9	57.9	0.32	0.29	2.74	105	0.26
C.V. %		7.7	1.4	5.9	--	21.0	--	--	--	--	--	--	--	--
LSD .05		NS	1 day	2	--	0.39	--	--	--	--	--	--	--	--
LSD .01		NS	1 day	3	--	0.56	--	--	--	--	--	--	--	--

\* Forage yields reported on a dry matter (DM) basis.

\*\* Nitrate levels below 0.44% are considered safe for all livestock. It is recommended that nitrate levels between 0.44% and 0.66% should be limited to 50% total ration for pregnant animals (Penn State recommendations). N fertility was managed for grain production.

NS = no statistical difference between varieties.

Planting Date: winter wheat = Sept 29, 2005, other crops = May 11, 2006.

Harvest Date: winter wheat = June 26, 2006, other crops = July 3, 2006.

**2006 Forage Barley Variety Trial - Continuously Cropped – No-till**

**Hettinger**

Variety	Days to Head	Plant Height	Harvest Moisture	Crude Protein	ADF	NDF	Ca	P	K	RFV	Nitrate*	Yield				
												2004	2005	2006	2 yr	3yr
		Inches	%	%	%	%	%	%	%	%	%	----- Tons / acre** -----				
Westford	69	24	68	19.7	33.0	56.8	0.43	0.35	3.09	103	0.28	2.15	2.25	2.21	2.23	2.20
Bestford	67	27	70	20.0	28.8	54.3	0.38	0.28	2.32	114	0.50	2.12	2.44	2.03	2.24	2.20
Stockford	68	23	67	19.5	30.9	53.1	0.47	0.29	2.57	114	0.34		3.97	2.33	3.15	
Haybet	68	25	65	17.1	28.7	56.1	0.34	0.30	2.23	110	0.24		3.65	2.33	2.99	
Drummond	62	24	64	19.1	32.6	57.1	0.42	0.29	2.41	103	0.24			1.93		
Trial Mean	67	25	67	19.1	30.8	55.5	0.41	0.30	2.52	109	0.32	2.17	3.09	2.17	--	--
C.V. %	0.5	3.8	--	--	--	--	--	--	--	--	--	11.8	13.8	7.8	--	--
LSD .05	1	1	--	--	--	--	--	--	--	--	--	NS	0.63	0.26	--	--
LSD .01	1	2	--	--	--	--	--	--	--	--	--	NS	0.85	NS	--	--

\* Nitrate levels below 0.44% are considered safe for all livestock. It is recommended that nitrate levels between 0.44% and 0.66% should be limited to 50% total ration for pregnant animals (Penn State recommendations). N fertility was managed for grain production.

\*\* Forage yields reported on a dry matter (DM) basis.

NS = no statistical difference between varieties.

Planting Date: April 17, 2006

Harvest Date: June 26, 2006 (flowering)

Seeding Rate: 750,000 live seeds/acre.

Previous Crop: soybean