

# 2006 OHIO FORAGE PERFORMANCE TRIALS

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## Summary

This report is a summary of performance data collected from forage variety trials in Ohio during 2006. This report includes performance of commercial varieties of alfalfa, orchardgrass, tall fescue, perennial and annual ryegrass in tests planted in 2003 to 2006 across four sites in Ohio: South Charleston, North Baltimore, Wooster, and Jackson. For more details on forage species and management, see the *Ohio Agronomy Guide*, Ohio State University Extension Bulletin 472, (available online at <http://ohioline.osu.edu/b472/0008.html>).

## Interpreting Yield Data in this Report

Least significant differences (LSD) are listed at the bottom of the tables along with the trial average (mean). Differences between varieties are statistically significant if the difference is equal to or greater than the LSD value. For example, if a variety yields more than another variety by the LSD value, then we are 95% sure that the yield difference is real, with only a 5% probability that the difference is due to chance alone. Results reported here should be representative of what might occur throughout the state but would be most applicable under environmental and management conditions similar to those at the testing sites.

## Summary of 2006 Growing Conditions

The growing season began with above normal average daily temperatures in April. Temperatures were below normal in May, June, September, and October. There were some periods of below normal rainfall, but total rainfall for the season was above normal, which lead to high forage yields in all trials.

## Alfalfa

Forage yields in 2006 were higher than those in 2005 except in the 2003 seeded trials. The 2004 seeding at North Baltimore had the highest yields, averaging 9.7 tons/acre with two varieties breaking the 10 ton/acre mark for the first time in the history of the Ohio Alfalfa Performance Trials. Alfalfa weevil populations were low at all sites and no insecticide was required for their control. Insecticide applications were used at all locations for control of potato leafhopper (PLH) in the standard yield trials.

No insecticide was applied to control potato leafhopper in the Regional Alfalfa Yield Trial for Potato Leafhopper Resistance conducted at South Charleston, OH and Ames, IA. Leafhopper populations were very high at South Charleston but low in Iowa, giving an overall average PLH effect on yield across the two sites. Significant yield differences were observed among varieties in response to PLH injury. Leafhopper resistant varieties are not resistant to alfalfa weevil, and will need to be treated with insecticides if weevil populations exceed action thresholds.

## Orchardgrass

Yield in 2006 was slightly higher than in 2005. Orchardgrass varieties differed greatly in yield over the season, and in maturity at the first harvest. The new 2006 seeded trial also yielded very well. Orchardgrass is one of the most productive cool-season grasses grown in Ohio.

## Tall Fescue

The tall fescue trial of endophyte-free varieties established at Jackson in 2004 had higher yields in 2006 than in 2005. New varieties that are endophyte free or that contain a non-toxic endophyte (eg., Jessup Max Q) have potential to increase animal performance during the summer grazing season and to provide forage for beef cattle and sheep during autumn and early winter.

## Perennial Ryegrass

The perennial ryegrass trial at South Charleston also had good yields, averaging 6.3 tons/acre. Varieties differed widely in yield (3.7 to 8.9 tons/acre) and maturity. Perennial ryegrass (diploid and tetraploid) is the most winter hardy of the ryegrass types. Tetraploid varieties usually have larger leaves, fewer but larger tillers, produce a more open growth (less ground cover), and tend to have higher digestibility than diploid varieties. Diploids tend to have finer leaves and produce more tillers. A couple of varieties in the ryegrass trial were **festuloliums**, which are crosses between annual ryegrass and fescue. They generally are more winter-hardy and slightly more drought tolerant than perennial ryegrass.

## Annual Ryegrass

Total forage yields in the annual ryegrass trial seeded September 2005 ranged from 0.83 to 7.2 tons/acre among varieties, partially due to large differences in winter injury (note % stand density in May). A new trial was seeded September 2006, and one harvest was obtained from that trial in early November. Winter survival and yield will be evaluated in that trial in 2007. Annual ryegrass is a cool-season annual bunch grass that is highly palatable and digestible. It has high seedling vigor and is well adapted to either conventional or no-till establishment methods.



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### Summary of Alfalfa Variety Performance in Ohio

Standard Trials - Insecticide Applied (values are yield as a percentage of the trial average)

Variety	Marketer	South Charleston		Wooster		North Baltimore	Jackson	total site-yrs	Average all site yrs
		2003-06	2005-06	2003-06	2006	2004-06	2005-06		
4A421	Mycogen Seeds		99	100	101			7	100
53Q30	Pioneer		103		100			3	102
54H91	Pioneer	96		99				16	96
54Q25	Pioneer	102		100		101		11	101
54V46	Pioneer	104	97	100	99	101		14	101
54V54	Pioneer	97		99				16	99
6400HT	Garst	101	104	100	99	100	104	16	101
6420	Garst	106	102	101		97		25	101
AlfaStar II	Steyer Seeds			101				4	101
Baralfa 53HR	Barenbrug USA		106					2	106
CW 15030	Allied Seed		104					2	104
DKA 41-18 RR	Monsanto				94			1	94
DKA 42-15	Monsanto					102		11	101
Evermore	Allied Seed			101				4	101
Feast +EV	Garst			99				4	99
FSG 351	Allied Seed			100				4	100
FSG 406	Allied Seed			98				4	98
FSG 408 DP	Allied Seed		102					2	102
FSG 505	Allied Seed			102				4	102
Genoa	NK Brand Seed		104		101	104	98	8	102
GH 744	Golden Harvest			99				4	99
HybriForce-420/wet	Dairyland	99		101		98	101	13	100
Integrity	PGI Alfalfa Inc.		100					2	100
L-311	Legacy Seed			100				4	100
L-411-HD	Legacy Seed					104		3	104
L-447-HD	Legacy Seed				108			1	108
LegenDairy 5.0	Croplan Genetics					100		3	100
Marvel	Allied Seed		97					2	97
Nova	Great Plains					99		3	99
Power 4.2	Power Seed Inc.			100				4	100
Predator	Doebler's Seed	101						4	101
Radiant-AM	Ampac Seed				94			1	93
Rebel	Burtch Seeds					100		3	100
Rebound 5.0	Croplan Genetics		104			104		5	104
Regal	Great Plains			98				4	98
Reward II	PGI Alfalfa Inc.			101			98	6	100
Rugged	Burtch Seeds					99		3	99
SummerGold	Beck's Superior					103	97	5	101
VERNAL	Public	90	98	97	96	94	102	77	91
Winter Gold	Beck's Superior			99				4	99
WL 335 HQ	Royster Clark		94			96		5	96
WL 335 RR	Royster Clark				100			1	100
WL 343 HQ	Royster Clark				90			1	90
WL 348 AP	Royster Clark		97	100				6	99
WL 357 HQ	Royster Clark	105		100		102		11	103
Trial Average (annual tons/acre)		6.19	4.46	6.15	2.69	6.52	4.18	--	--
No. site years		4	2	4	1	3	2	--	--

Inclusion of entries in Ohio Alfalfa Performance Trials does not constitute an endorsement of a particular entry by The Ohio State University, Ohio Agricultural Research and Development Center, or Ohio State University Extension. Where trade names appear, no discrimination is intended, and no endorsement is implied by The Ohio State University, Ohio Agricultural Research and Development Center, or Ohio State University Extension.

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### Seed Marketers of Varieties Included in 2006 Forage Performance Trials

Allied Seed	660-385-6690	Doebler PA Hybrid Inc.	570-753-5503	Pioneer Hi-Bred Int'l	See local retailer
Ampac Seed	574-268-9549	Fraser Seeds Ltd.	604-929-7371	Power Seeds	705-944-5600
Ag Research USA	828-645-3872	Garst Seed Company	260-693-1100	ProSeeds Marketing	541-928-9999
Barenbrug USA	541-926-5801	Golden Harvest	800-944-7333	Radix Research, Inc.	503-749-2888
Becks Superior	800-yes-beck	Great Plains Research	800-874-7945	Royster Clark	See local retailer
Blue River Hybrids	800-370-7979	Legacy Seeds Inc.	866-866-3888	Saddle Butte Ag.	541-491-3501
Burtch Seed Co.	419-363-3713	Lewis Seed Co.	541-466-3704	Seed Rsch. of Oregon	541-757-2663
Byron Seeds	765-435-7243	Monsanto	See local retailer	Seed Solutions	800-562-2459
Cebeco Int'l. Seeds Inc.	541-369-2251	Mycogen Seeds	800-mycogen	Smith Seed Service	614-890-2929
Columbia Seeds	541-757-1468	Northrup King	See local retailer	Steyer Seeds	419-992-4570
Croplan Genetics	See local retailer	Pennington Seed Inc.	541-451-5261	Turf-Seed, Inc.	503-651-2130
Dairyland Seeds	800-236-0163	PGI Alfalfa Inc.	866-744-5710	W-L Research	608-240-0630
DLF -International Seeds	800-445-2251	Pickseed West Inc.	503-926-8886	Wax Seed Company	800-647-1226

#### Regional Alfalfa Yield Trial for Potato Leafhopper Resistant Varieties Conducted at S. Charleston, OH and Ames, IA, Seeded Spring 2005

Variety	Marketer	Yield <sup>1</sup> Tons/acre	PLH Yield Index <sup>2</sup> %
<i>Resistant</i>			
54H91	Pioneer	1.08*	36
WL347LH	WL Research	1.07*	35
FSG400LH	Allied Seed	1.05*	32
ENFORCER	Allied Seed	1.01*	27
WL345LH	WL Research	0.95	19
BLUEBIRD HR	Blue River Hybrids	0.91	15
6325	Garst	0.85	6
<i>Susceptible Checks</i> <sup>3</sup>		0.80	
LSD (0.05)		0.22	

\* Yield significantly greater than yield of susceptible check varieties.

<sup>1</sup> Average yield at 8 harvests when potato leafhoppers caused injury.

<sup>2</sup> % yield improvement over the yield of susceptible check varieties.

<sup>3</sup> Average of three susceptible varieties (5454, DK140, Vernal).

#### Regional Alfalfa Yield Trial for Potato Leafhopper Resistant Varieties Conducted at S. Charleston, OH and Ames, IA, Seeded Spring 2006

Variety	Marketer	Yield <sup>1</sup> Tons/acre	PLH Yield Index <sup>2</sup> %
<i>Resistant</i>			
53H92	Pioneer	1.19*	50
6426PLH	Garst	1.10*	39
4P424	Mycogen Seeds	1.09*	38
EVERGREEN3	NK Brand Seed	1.02*	29
54H91	Pioneer	1.01*	28
GH773LH	Golden Harvest	0.93	17
<i>Susceptible Checks</i> <sup>3</sup>		0.79	
LSD (0.05)		0.17	

\* Yield significantly greater than yield of susceptible check varieties.

<sup>1</sup> Average yield at 4 harvests when potato leafhoppers caused injury.

<sup>2</sup> % yield improvement over the yield of susceptible check varieties.

<sup>3</sup> Average yield of three susceptible varieties (5454, DK140, Vernal).

#### Alfalfa Variety Trial Ohio, South Charleston, Sown 4-14-2005

Variety	2006 -- Tons dry matter/acre --	2005	2005-06 % mean
Baralfa 53HR	7.63	1.83	106
Rebound 5.0	7.39	1.90	104
6400HT	7.20	2.09	104
CW 15030	7.17	2.07	104
Genoa	7.35	1.87	104
53Q30	7.30	1.86	103
6420	6.97	2.14	102
FSG 408DP	7.24	1.84	102
Integrity	7.14	1.79	100
4A21	6.98	1.88	99
Vernal	6.90	1.86	98
Marvel	6.50	2.15	97
54V46	7.00	1.63	97
WL 348 AP	6.85	1.75	97
WL 335 HQ	6.61	1.79	94
Mean	7.02	1.89	--
LSD (0.05)	NS	NS	--

**Note:** Stand was 95 % for all varieties on 29- Sept-2006.

Applied 50 lb/a of 0-46-0 and 500 lb/a of 0-0-60 in April 2006.

Insecticide applied on 6-June, 13-July, 8-Aug for potato leafhopper control.

Herbicide was applied on 8-August for weed control.

#### Alfalfa Variety Trial Ohio, Wooster, Sown 4-12-2006

Variety	24-May --- Tons dry matter/acre ---	27-Jun	Total 2006	2006 % mean	% Stand 10/5/06
L 447 HD	1.58	1.31	2.91	108	91
4A421	1.52	1.25	2.71	101	90
Genoa	1.50	1.18	2.71	101	90
WL 335 RR	1.50	1.19	2.69	100	90
53Q30	1.48	1.20	2.69	100	93
6400 HT	1.46	1.16	2.67	99	88
54V46	1.48	1.14	2.65	99	93
Vernal	1.46	1.17	2.57	96	93
DKA 41-18RR	1.44	1.15	2.53	94	91
Radiant-AM	1.48	1.12	2.52	94	88
WL 343 HQ	1.40	1.05	2.43	90	91
Mean	1.49	1.20	2.69	--	90
LSD (0.05)	0.13	0.14	0.18	--	NS

Applied pre-plant 555 lb/a of 0-18-36, 166 lb/a of 0-0-60, and 1.5 t/a of lime  
Insecticide was applied 7-July for potato leafhopper control.

Herbicide was applied on 1-August for grass control.



Alfalfa Variety Trial							
Ohio, Wooster, Sown 4-24-2003							
Variety	2006	2005	2004	2003	2003-06	2003-06	% Stand
	----Tons dry matter/acre ----				% mean 10/18/05		
FSG 505	7.19	7.80	7.01	2.98	24.98	102	82
Hybri Force 420/wet	7.25	7.60	7.02	3.10	24.96	101	81
Alfa Star II	7.15	7.82	6.83	3.11	24.91	101	80
Reward II	7.04	7.89	6.86	3.09	24.87	101	77
Evermore	7.13	7.74	6.91	3.08	24.86	101	82
6420	7.11	7.57	6.90	3.25	24.83	101	80
FSG 351	7.17	7.51	6.92	3.09	24.70	100	84
54V46	7.20	7.39	6.97	3.12	24.69	100	87
WL 357 HQ	6.94	7.56	7.22	2.97	24.69	100	83
L-311	6.89	7.89	6.83	3.07	24.68	100	81
4A421	7.00	7.56	7.14	2.93	24.63	100	81
6400 HT	6.97	7.66	6.88	3.11	24.62	100	78
Power 4.2	7.09	7.75	6.83	2.94	24.61	100	81
54Q25	6.93	7.80	6.83	2.94	24.51	100	80
WL 348 AP	6.91	7.77	6.72	3.08	24.48	100	76
54H91	6.88	7.66	6.92	2.96	24.42	99	70
Feast + EV	7.12	7.62	6.72	2.94	24.40	99	72
Winter Gold	6.84	7.72	6.75	3.08	24.39	99	79
GH 744	6.87	7.48	6.88	3.15	24.38	99	83
54V54	6.81	7.58	6.93	2.96	24.28	99	79
FSG 406	6.83	7.44	6.82	3.02	24.11	98	80
Regal	6.91	7.34	6.72	3.06	24.03	98	80
Vernal	6.89	7.76	6.31	2.78	23.74	97	53
Mean	7.02	7.65	6.89	3.04	24.60	--	79
LSD (0.05)	NS	NS	0.33	0.21	0.80	--	5.76

Applied 160 lb/a. of 0-0-60 on 1-June-2006.

Insecticide was applied 8-June, 14-July, and 18-August for potato leafhopper control.

Alfalfa Variety Trial						
Ohio, North Baltimore, Sown 4-19-2004						
Variety	2006	2005	2004	2004-06	2004-06	% Stand
	--- Tons dry matter/acre ---			% mean 09/21/06		
Rebound 5.0	10.09	8.18	2.02	20.35	104	83
Genoa	9.86	8.27	2.02	20.31	104	84
L-411-HD	10.00	8.34	1.93	20.30	104	80
SummerGold	9.88	8.17	2.04	20.10	103	82
WL 357 HQ	9.80	8.08	2.14	20.02	102	86
DKA 42-15	9.84	8.26	1.90	19.99	102	79
54V46	9.64	8.43	1.65	19.79	101	85
54Q25	9.87	8.06	1.95	19.74	101	84
LegenDairy 5.0	9.87	7.99	1.85	19.64	100	84
6400 HT	9.83	7.65	1.96	19.52	100	87
Rebel	9.72	7.89	1.95	19.47	100	80
Nova	9.75	7.91	1.69	19.38	99	82
Rugged	9.57	7.71	1.93	19.26	98	81
HybriForce 420/wet	9.61	7.81	1.61	19.11	98	80
6420	9.41	7.64	1.96	19.02	97	83
WL 335 HQ	9.59	7.67	1.62	18.84	96	80
Vernal	9.22	7.50	1.59	18.37	94	80
Mean	9.72	7.97	1.86	19.55	--	82
LSD (0.05)	NS	NS	NS	NS	--	4.32

Applied 300 lb/a of 0-0-60 fall 2005.

Applied insecticide on 7-June, 13-July, and 16-August in 2006.

Alfalfa Variety Trial							
Ohio, South Charleston, Sown 4-15-2003							
Variety	2006	2005	2004	2003	2003-06	2003-06	% Stand
	----Tons dry matter/acre ----				% mean 9/29/06		
6420	7.14	7.14	7.13	4.85	21.41	106	74
WL 357 HQ	6.76	7.37	7.32	4.57	21.45	106	75
54V46	6.63	7.09	7.02	4.94	20.74	103	70
54Q25	6.49	7.15	7.04	4.48	20.68	103	71
6400 HT	6.50	6.82	6.91	4.77	20.23	100	70
Predator	6.28	7.00	6.93	4.75	20.21	100	69
Hybri Force 420/wet	6.10	6.90	6.92	4.54	19.92	99	74
54V54	6.12	6.67	6.86	4.34	19.65	97	70
54H91	6.04	6.53	6.56	4.54	19.13	95	72
Vernal	5.91	6.38	6.01	3.96	18.30	91	61
Mean	6.40	6.90	6.87	4.57	20.17	--	71
LSD (0.05)	0.71	0.60	0.30	0.41	1.21	--	5.99

Applied 50 lb/a of 0-46-0 and 500 lb/a of 0-0-60 in March 06.

Insecticide was applied on 6-June, 13-July, 8-August for potato leafhopper control.

Tall Fescue Variety Trial						
Ohio, Jackson, Sown 8-12-2004						
Variety	Marketer	2006	2005	2005-06	2005-06	
		---Tons dry matter/acre ---			% mean	
Hykor <sup>a</sup>	DLF Int'l Seed	6.24	5.97	12.21	110	
Fuego	Seed Rsch Oregon	6.16	5.55	11.71	105	
Hymark	Fraser Seeds	6.13	5.54	11.67	105	
Ky 31	Public	6.30	5.24	11.54	104	
Stockman	Seed Rsch Oregon	6.04	5.38	11.42	103	
IS-FTF-12*	DLF Int'l Seed	5.79	5.39	11.18	100	
Jessup Max Q	Pennington Seed	5.67	5.43	11.11	100	
Seine	Seed Rsch Oregon	6.02	4.97	10.99	99	
Montendre	Seed Rsch Oregon	6.20	4.68	10.88	98	
CSN 26*	Fraser Seeds	5.81	4.98	10.79	97	
Ridgeway	Columbia Seeds	5.39	4.85	10.24	92	
Potomac <sup>a</sup>	Public	5.01	4.91	9.93	89	
Mean		5.90	5.24	11.14	--	
LSD (0.05)		NS	NS	NS	--	

\* Variety tested using experimental seed, may not give performance identical

<sup>a</sup> Hykor is a Festuloleum, Potomac is an orchardgrass variety

Applied 34-0-0 at 200 lb/a of on 14- April, and 100 lb/a on 27-May and 8-

Alfalfa Variety Trial					
Ohio, Jackson, Sown 8-12-2004					
Variety	2006	2005	2005-06	2005-06	Stand
	--Tons dry matter/acre -			% mean 10/4/06	
6400 HT	5.55	3.07	8.66	104	83
Vernal	5.46	3.12	8.51	102	87
HybriForce 420/wet	5.28	3.15	8.45	101	88
Reward II	5.15	3.08	8.23	98	83
Genoa	5.12	3.06	8.17	98	82
SummerGold	5.22	2.92	8.15	97	83
Mean	5.30	3.07	8.36	--	84
LSD (0.05)	0.29	NS	NS	--	NS

Applied 50 lb/a of 0-46-0 and 100 lb/a of 0-0-60 in March 2006.

No insecticide needed in 2006.

Perennial Ryegrass Variety Trial					
Ohio, South Charleston, Sown 4-14-2005					
Variety	Marketer	2006	2005	2005-06	Maturity <sup>b</sup>
		---- Tons/acre ----		% mean 5/22/06	
Perun <sup>a</sup>	Byron Seeds	8.67	1.84	139	2.3
Aubisque	Seed Solutions	6.26	1.01	97	1.8
Mathilde	DLF International	6.06	1.22	96	1.3
Respect	Doebler's P.A. Hybrids	5.47	0.87	85	2.0
Portia	DLF International	4.87	1.00	79	1.0
CSBF 124 <sup>a</sup>	Saddle Butte Ag	3.70	1.26	65	1.0
Mean		6.30	1.23	--	2.2
LSD (0.05)		0.85	0.36	--	0.92

<sup>a</sup> Varieties are festuloliums

<sup>b</sup> Maturity scale: 2 =early boot, 3 =initial head emergence.

Applied 150 lb/a of 34-0-0 on 28-March, 24-May and 10-July

Orchardgrass Variety Trial Ohio, South Charleston, Sown 4-15-2003							
Variety	Marketer	2006	2005	2004	2003	2003-06	Maturity <sup>a</sup>
		---Tons dry matter/acre ---% mean					5/25/05
ORCA*	Pickseed West Inc.	6.79	5.97	7.12	3.03	111	3.2
Icon	Seed Rsch Oregon	6.66	6.04	7.10	2.97	110	4.6
Megabite	Turf Seed	6.44	6.07	6.89	2.89	108	5.1
CIS-OG-4	Cebeco Int'l	6.29	5.84	6.93	3.05	107	4.0
Elise	Turf Seed	6.32	5.59	6.77	3.08	106	3.3
ECF 30*	Radix Rsch Inc.	6.40	5.64	6.65	3.00	105	5.2
Pennalate	Public	6.62	5.57	6.64	2.76	105	3.6
Command*	Seed Rsch Oregon	5.85	5.86	6.80	2.95	104	3.9
Harvestar*	Radix Rsch Inc.	5.86	5.47	6.78	3.21	103	4.1
LG-31	DLF - Jenks	5.56	5.02	6.22	2.63	94	1.5
Athes	DLF - Jenks	5.12	4.98	6.05	3.01	93	1.5
Potomac	Public	4.84	4.70	5.36	2.81	86	5.0
Abertop	Pennington Seed	4.32	3.18	4.09	2.23	67	4.0
Mean		5.93	5.38	6.42	2.89	--	3.8
LSD (0.05)		0.55	0.41	0.52	NS	--	2.41

\* Variety tested with experimental seed that may not give performance identical to commercial seed.

<sup>a</sup>Maturity scale: 2 =early boot, 3 =initial head emergence, 4 =complete head emergence, 5 = head fully extended (elongated peduncle), 6 = pre-pollination.

Applied 34-0-0 on 2- April at 200 lb/acre, and 147 lb/acre on 7- June, 22- July.

Orchardgrass Variety Trial Ohio, South Charleston, Sown 4-13-2006			
Variety	Marketer	Total 2006	2006
		Tons/acre	% Mean
Shiloh II	Pro Seed Mkt.	4.69	121
Endurance	DLF Intl.	4.42	114
RAD-LCF-21*	Lewis Seed Co.	4.17	107
Command	Seed Rsch Oregon	4.11	106
OG 001*	Seed Rsch Oregon	3.92	101
OG 0204G*	Seed Rsch Oregon	3.72	96
Persist	Smith Seed Srvs.	3.49	90
AGRDG 101*	Ag Rsch. USA	3.24	84
Potomac	Public	3.19	82
Mean		3.88	--
LSD (0.05)		0.71	--

\* Variety tested with experimental seed, may not give performance identical commercial seed.

Applied 150 lb/a of 34-0-0 on 24-May, 10-July, 24-August.

Herbicide was applied on 31-June for weed control.

Annual Ryegrass Variety Trial Ohio, South Charleston, Sown 9-9-2005							
Variety	Marketer	2005	2006		Total	Stand	
		21-Nov	8-May	14-Jun	26-Jul	2005-06	5/30/06
		----- Tons Dry Matter / Acre -----					%
Perun*	Byron Seeds	0.08	2.96	2.34	2.23	7.48	85
Jeanne	DLF Int'l Seed	0.50	2.34	2.22	2.19	7.22	81
Passerel Plus	Pennington Seed	0.88	2.56	1.92	1.27	6.33	83
T Rex	Saddle Butte Ag.	0.62	2.57	1.91	0.98	6.05	82
Florlina	Saddle Butte Ag.	0.76	2.01	1.75	0.98	5.82	71
Surrey II	DLF Int'l Seed	0.67	2.19	1.61	1.23	5.70	69
Bruiser	Seed Rsch Oregon	0.72	1.90	1.53	1.10	5.31	60
Grazer II	DLF Int'l Seed	0.81	1.39	1.49	0.97	4.99	62
Marshall	Wax Seed Co.	0.75	0.98	1.13	0.86	4.06	41
Bounty	Saddle Butte Ag.	0.77	1.44	1.14	0.77	3.96	59
Striker	Seed Rsch Oregon	0.72	0.94	0.81	0.83	3.11	34
Angus I	DLF Int'l Seed	0.43	1.26	0.64	0.60	2.68	34
Common	Public	1.03	0.44	0.57	0.28	2.21	15
Monarque	Seed Rsch Oregon	0.62	0.54	0.75	0.78	2.18	51
Gulf	Public	0.83	0.00	0.00	0.00	0.83	0
Mean		0.68	1.55	1.33	1.00	4.52	55
LSD (0.05)		0.33	0.81	0.60	0.53	1.61	29

\* Variety is a Festulolium (a perennial).

Applied 34-0-0 at 88 lb/a prior to planting, 150 lb/a on 28-March, 24-May and 20-June.

Annual Ryegrass Variety Trial Ohio, South Charleston, Sown 9-11-2006		
Variety	Marketer	9-Nov-06
		Tons/Acre
ME - 94*	Wax Seed Co.	0.64
Bounty	Saddle Butte Ag.	0.61
Grazw N Grow	Seed Rsch Oregon	0.61
WMN - 97*	Wax Seed Co.	0.53
Gulf	Public	0.46
T-Rex	Saddle Butte Ag.	0.43
Verdure	Smith Seed Srvs.	0.41
Striker	Seed Rsch Oregon	0.35
Max	Seed Rsch Oregon	0.31
Jackson	Wax Seed Co.	0.31
Florlina	Saddle Butte Ag.	0.29
ME - 4*	Wax Seed Co.	0.27
Marshall	Wax Seed Co.	0.20
Mean		0.42
LSD (0.05)		0.21

\* Variety tested using experimental seed, may not give performance identical to commercial seed.

Applied 150 lb/a of 34-0-0 on 2-October.

Weather Data Summary for the 2006 Growing Season								
Month	Wooster		S. Charleston		N. Baltimore		Jackson	
	Total	DFA*	Total	DFA*	Total	DFA*	Total	DFA*
-----Precipitation (inches of rainfall)-----								
Apr	1.50	-1.82	3.18	-0.79	1.65	-1.60	4.35	0.54
May	5.31	1.54	2.81	-1.64	5.76	2.50	2.44	-1.60
June	4.08	0.14	2.69	-1.47	4.56	1.01	2.56	-1.16
July	6.48	2.51	3.56	-0.42	5.12	1.41	4.76	0.45
Aug	1.26	-2.20	4.40	1.02	1.92	-0.90	2.42	-1.09
Sept	2.52	-0.62	4.86	1.87	3.04	0.33	4.45	2.19
Oct	4.45	2.19	8.55	6.30	4.49	2.21	8.53	6.19
Total	25.60	1.74	30.05	4.87	26.54	4.96	25.43	1.52
-----Average Daily Temperature (°F)-----								
Apr	52.8	4.7	54.5	3.5	52.7	3.8	56.8	4.4
May	57.8	-0.6	59.3	-1.8	59.4	-0.2	59.1	-2.5
June	66.2	-1.4	68.1	-2.2	68.0	-1.5	68.0	-1.9
July	73.0	1.4	73.9	0.1	73.7	0.8	74.4	0.9
Aug	72.0	-2.0	72.7	0.7	71.7	1.1	74.4	2.2
Sept	61.7	-1.7	62.0	-3.2	62.0	-2.0	68.7	0.0
Oct	49.4	-2.8	50.4	-3.6	49.2	-3.4	51.5	-2.2

\*DFA = departure from long-term average

## Online Resources and Additional Information

[www.ag.ohio-state.edu/~perf](http://www.ag.ohio-state.edu/~perf)

<http://forages.osu.edu>

