2008 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 2008, including commercial varieties of alfalfa, red clover, orchardgrass, tall fescue, perennial and annual ryegrass, teff, sorghum x sudangrass, sudangrass, and forage sorghum in tests planted in 2005 to 2008 across three sites in Ohio: South Charleston, 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 2008 Growing Conditions
The growing season began with above normal temperatures in April followed by below normal temperatures in May. Temperatures were below normal all months except April and June, and in September at South Charleston and Jackson. Total rainfall for the season was normal at all locations: Wooster (-4.26 inches), South Charleston (-1.88 inches) and Jackson (-1.31 inches). June was the only month with rainfall well above normal at all locations. Surprisingly alfalfa yields were excellent but grass yields were somewhat lower than average in our trials.

Alfalfa
The trial established in 2007 at Wooster had the highest yields, averaging 8.28 tons/acre. Good yields were also obtained in the Wooster trial seeded in 2006 (7.61 tons/acre) and at South Charleston in 2005 (7.10 tons/acre). 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 alfalfa yield trial for potato leafhopper resistance conducted at South Charleston, OH and seeded this year. Thresholds resulted in significant yield differences 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 2008 was lower due to the reduced rainfall. Orchardgrass varieties differed greatly in yield over the season, and all varieties went dormant for part of the summer due to dry weather.

Tall Fescue
The tall fescue trial of endophyte-free varieties established at Jackson in 2004 had low yields in 2008, although they were greater than in 2007. Only two harvests were collect in 2007 and three in 2008 due to lack of rainfall. New varieties that are endophyte free or that contain a non-toxic endophyte (eg., Jessup Max Q) have potential to increase animal performance, especially 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 reduced yields in 2008. Only three harvests were made due to the reduced growth from below normal rainfall. Perennial ryegrass (diploid and tetraploid) is the most winter hardy of the ryegrass types. 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, although those characteristics vary by variety as can be seen in this trial.

Annual Ryegrass
Total forage yields in the annual ryegrass trial seeded September 2007 ranged from 1.74 to 5.76 tons/acre among varieties. 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.

Red Clover
Forage yields of red clover varieties were slightly less than 5 tons/ acre in 2008, except for Red Gold (due to poor establishment) and "common" seed (due to stand loss from diseases). Newer varieties of red clover yield more and persist longer than "common" red clover.

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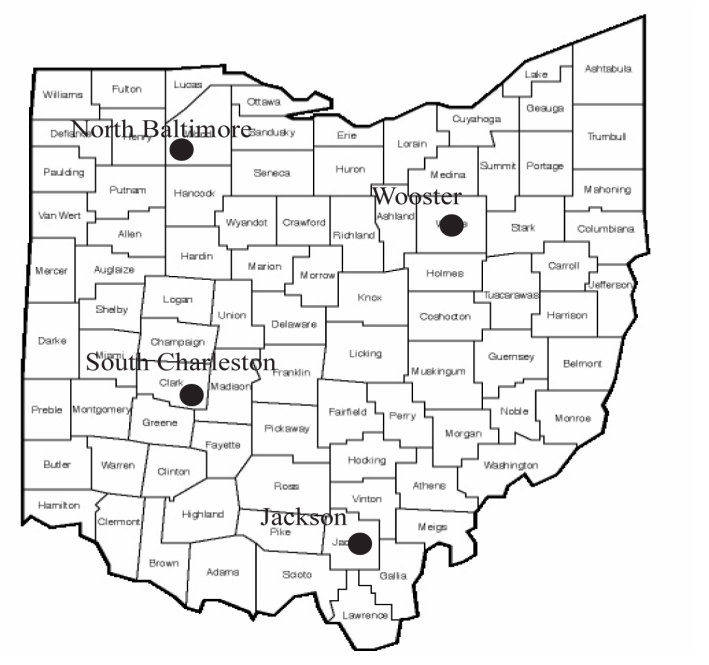

Summary of Alfalfa Variety Performance in Ohio

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

Variety	Marketer	Jackson 2004-08	South Charleston 2005-08	South Charleston 2008	Wooster 2006-08	Wooster 2007-08	Total site-yrs	Average all site yrs
6415	Garst					101	2	101
6417	Garst			118			1	118
6420	Garst		102				27	101
6552	Garst			89			1	89
4A421	Mycogen Seeds		103		99		11	101
53Q30	Pioneer		100		97		7	99
54V46	Pioneer		102		100	98	21	101
55V48	Pioneer			122		103	3	110
6400HT	Garst	103	103		96	103	25	101
A 4330	Producers Choice			104			1	104
A 5225	Producers Choice					99	2	99
Ameristand 407TQ	Americas Alfalfa			98			1	98
Anchormate	Central Farm					102	2	102
Baralfa 53HR	Barenbrug USA		103				4	103
DKA 41-18 RR	Monsanto				98		3	98
FSG 408 DP	Allied Seed		102				4	102
Genoa	NK Brand Seed	97	105	98	100		16	102
HybriForce-420/wet	Dairyland	102					16	100
Integrity	Producers Choice		99				4	99
L-447-HD	Legacy Seed				103		3	103
Marvel	Allied Seed		99				4	99
PGI 459	Producers Choice			98			1	98
Radiant-AM	Ampac Seed				100		3	100
Rebound 5.0	Croplan Genetics		103				8	104
Reward II	Producers Choice	101					8	101
SummerGold	Beck's Hybrid	96					8	100
VERNAL	Public	101	94	80	95	98	87	92
WL 335 HQ	WL Research		98				8	97
WL 335 RR	WL Research				97		3	97
WL 343 HQ	WL Research			99	97	96	6	97
WL 348 AP	WL Research		98				8	99
WL 363 HQ	WL Research			93			1	93
Trial Average Yield (annual tons/acre)		4.34	7.10	1.60	7.61	8.28	--	--
Number of site years		4	4	1	3	2	--	--

Seed Marketers of Varieties Included in 2008 Forage Performance Trials

AGSP	541-926-4611	DLF -International	800-445-2251	Pennington Seed Inc.	541-451-5261
Allied Seed	660-385-6690	Doebler PA Hybrid Inc.	570-753-5503	Pioneer Hi-Bred Int'l	See local
America's Alfalfa	800-873-2532	Forage Genetics	(800) 635-5701	Producers Choice	608-786-1554
Ampac Seed	574-268-9549	Fraser Seeds Ltd.	604-929-7371	ProSeeds Marketing	541-928-9999
Ag Research USA	828-645-3872	Garst Seed Company	888-464-2778	Saddle Butte Ag.	541-491-3501
Barenbrug USA	541-926-5801	Gries Seed Farms	419-332-5571	Seed Rsch. of Oregon	541-757-2663
Becks Hybrids	800-yes-beck	Hankins Seed	541-545-6649	Seed Solutions	800-562-2459
Byron Seeds	765-435-7243	Legacy Seeds Inc.	866-866-3888	Smith Seed Service	614-890-2929
Central Farm & Garden	330-237-6446	Lewis Seed Co.	541-466-3704	Snow Brand Seed	503-443-3717
CISCO	800-888-2986	Monsanto	See local retailer	Target Seed	208-250-0376
Columbia Seeds	541-757-1468	Mountain View Seeds	503-588-7333	The Seed Center	740-666-4050
Croplan Genetics	See local retailer	Mycogen Seeds	800-mycogen	W-L Research	608-240-0630
Dairyland Seeds	800-236-0163	NK Brand Seeds	See local retailer	Wax Seed Company	800-647-1226
Derry Warehouse Co.	503-623-6969	Oregon Seeds Inc.	541-258-1001	Winfield Solutions	800-356-7333

Alfalfa Variety Trial
Ohio, South Charleston, Sown 4-14-05

Variety	2008	2007	2006	2005	2005-08	% Stand	2005-08
	--------- Tons Dry Matter/Acre ----------					Sep-08	% mean
Genoa	7.52	5.63	7.35	1.87	22.37	85	105
4A21	7.54	5.70	6.98	1.88	22.10	89	103
Baralfa 53HR	6.95	5.69	7.63	1.83	22.09	91	103
Rebound 5.0	6.97	5.82	7.39	1.90	22.08	87	103
Escalade	7.37	5.46	7.17	2.07	22.06	86	103
6400HT	7.34	5.40	7.20	2.09	22.03	85	103
FSG 408DP	7.38	5.41	7.24	1.84	21.87	89	102
54V46	7.72	5.51	7.00	1.63	21.85	91	102
6420	7.06	5.59	6.97	2.14	21.76	86	102
53Q30	6.80	5.47	7.30	1.86	21.44	84	100
Integrity	7.21	5.07	7.14	1.79	21.21	91	99
Marvel	7.25	5.30	6.50	2.15	21.19	90	99
WL 335 HQ	7.05	5.59	6.61	1.79	21.04	89	98
WL 348 AP	7.06	5.35	6.85	1.75	21.00	87	98
Vernal	6.67	4.72	6.90	1.86	20.15	89	94
Mean	7.10	5.37	7.02	1.89	21.38	88	--
LSD 0.05	ns	0.59	ns	ns	1.46	ns	--

ns = no significant differences among varieties.
2008 Fertilization: 200 lb/a of 0-46-0 and 500 lb/a of 0-0-60 in March 2008.
Insecticide applied on 13-June, 18-July, 22-August for potato leafhopper control.

Alfalfa Variety Trial
Ohio, Wooster, Sown 4-23-2007

Variety	28-May	1-Jul	4-Aug	8-Sep	2008	2007	2007-08	2007-08
	----------Tons Dry Matter/Acre ----------							% mean
55V48	3.06	2.48	1.99	1.07	8.53	2.37	10.90	103
6400 HT	3.03	2.54	2.08	0.92	8.60	2.29	10.89	103
Anchormate	3.18	2.58	1.87	0.86	8.48	2.26	10.74	102
6415	2.86	2.31	2.07	0.99	8.28	2.39	10.67	101
A 5225	3.03	2.32	1.88	0.98	8.26	2.20	10.46	99
54V46	2.84	2.32	1.95	0.97	8.15	2.23	10.38	98
Vernal	3.05	2.46	1.76	0.74	7.95	2.43	10.37	98
WL 343 HQ	2.84	2.32	1.99	0.96	8.04	2.08	10.13	96
Mean	2.98	2.41	1.95	0.94	8.28	2.26	10.54	--
LSD 0.05	0.17	ns	0.21	0.10	0.39	ns	ns	--

2008 Fertilization: 200 lb/a of 0-46-0 and 500 lb/a of 0-0-60.
Insecticide applied 16-June, 21-July & 26-August for potato leafhopper

Alfalfa Variety Trial
Ohio, Jackson, Sown 8-12-2004

Variety	2008	2007	2006	2005	2005-08	2005-08	% Stand
	------- Tons Dry Matter/Acre --------					% mean	Oct-08
6400 HT	4.45	1.11	5.55	3.07	14.18	103	79
HybriForce 420/wet	4.51	1.14	5.28	3.15	14.06	102	77
Vernal	4.24	1.14	5.46	3.12	13.97	101	71
Reward II	4.59	1.08	5.15	3.08	13.88	101	74
Genoa	4.23	1.01	5.12	3.06	13.37	97	72
SummerGold	4.01	1.05	5.22	2.92	13.27	96	74
Mean	4.34	1.09	5.30	3.07	13.79	--	74
LSD 0.05	0.30	ns	0.29	ns	0.42	--	3.38

2008 Fertilization: 50 lb/a of 0-46-0 and 100 lb/a of 0-0-60 was applied March 2008.

Alfalfa Variety Trial
Ohio, South Charleston, Sown 4-23-08

Variety	2-Jul	11-Aug	8-Sep	2008	2008
	----Tons Dry Matter/Acre ----				% mean
55V48	0.37	0.94	0.63	1.95	122
6417	0.38	0.83	0.67	1.88	118
A4330	0.20	0.80	0.66	1.66	104
WL 343 HQ	0.16	0.82	0.60	1.59	100
PGI 459	0.21	0.72	0.64	1.57	98
AmeriStand 407TQ	0.19	0.79	0.58	1.57	98
Genoa	0.24	0.78	0.56	1.57	98
WL 363 HQ	0.18	0.74	0.55	1.48	92
6552	0.16	0.68	0.58	1.42	89
Vernal	0.16	0.70	0.43	1.28	80
Mean	0.23	0.78	0.59	1.60	--
LSD 0.05	0.14	ns	ns	0.34	--

Insecticide was applied on 16-June, 18-July, 22-August for potato leafhopper control.
Herbicide was applied on June 4 for weed control.

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

Variety	2008	2007	2006	2006-08	2006-08
	---- Tons Dry Matter/Acre -----				% mean
L 447 HD	7.78	7.47	2.87	18.12	103
Genoa	7.56	7.51	2.63	17.70	100
54V46	7.50	7.51	2.63	17.65	100
Radiant-AM	7.44	7.46	2.71	17.61	100
4A421	7.55	7.13	2.75	17.44	99
DKA 41-18RR	7.29	7.41	2.61	17.30	98
WL 343 HQ	7.33	7.38	2.47	17.17	97
WL 335 RR	7.12	7.44	2.58	17.14	97
53Q30	7.49	7.00	2.64	17.13	97
6400 HT	6.98	7.32	2.72	17.02	96
Vernal	7.25	7.03	2.58	16.85	95
Mean	7.61	7.36	2.69	17.66	--
LSD 0.05	0.45	ns	0.18	0.73	--

2008 Fertilization: 200 lb/a of 0-46-0 and 500 lb/a of 0-0-60
Insecticide was applied 16-June, 21-July & 26-August for potato leafhopper control.

Ohio Forage Network

http://forages.osu.edu

Ohio Forages Blog

http://ohioforages.blogspot.com

Potato Leafhopper Resistant Alfalfa Variety Trial
Ohio, South Charleston, Sown 4-23-08

Variety	Marketers	2-Jul	11-Aug	8-Sep	Total 2008	% of Checks	Injury[a]
		------ Tons Dry Matter/Acre -----					11-Aug
53H92	Pioneer	0.27	0.64	0.32	1.21	135	2.0
FG 45H353*	Forage Genetics	0.17	0.60	0.39	1.20	133	1.8
EverGreen 3	NK Brand Seeds	0.14	0.59	0.27	0.98	109	2.5
6426	Garst	0.10	0.57	0.29	0.97	108	2.3
AmeriStand 404LH	America's Alfalfa	0.03	0.63	0.26	0.87	97	1.8
Susceptible Checks**		0.11	0.52	0.25	0.90	--	4.5
Mean		0.13	0.57	0.29	0.99	--	3.0
LSD 0.05		0.11	ns	ns	0.25	--	0.93

* Variety tested using experimental seed that may not perform identically to that of commercially available seed.
** Susceptible check varieties were Vernal, DK 140 and 5454
[a] Potato leafhopper injury where 1 = no visible injury to 5 = most severe injury.
ns = no significance difference among varieties.

Tall Fescue Variety Trial
Ohio, Jackson, Sown 8-12-2004

Variety	Marketer	2008	2007	2006	2005	2005-08	2005-08	% Stand
		---- Tons Dry Matter/Acre ----					% mean	39729
Hykor[a]	DLF Intl' Seed	4.82	2.58	6.24	5.97	19.61	107	68
Fuego	Seed Rsch Oregon	4.99	2.79	6.16	5.55	19.49	106	67
Montendre	Seed Rsch Oregon	5.50	2.49	6.20	4.68	18.86	103	72
Ky 31	Public	4.64	2.58	6.30	5.24	18.76	102	61
HYMARK	Fraser Seeds	4.64	2.26	6.13	5.54	18.58	101	77
Stockman	Seed Rsch Oregon	4.61	2.29	6.04	5.38	18.32	100	65
CSN 26*	Fraser Seeds	5.11	2.40	5.81	4.98	18.30	100	80
Seine	Seed Rsch Oregon	4.75	2.35	6.02	4.97	18.09	99	84
Jessup Max Q	Pennington Seed	4.77	2.05	5.67	5.43	17.94	98	65
IS-FTF-12*	DLF Intl' Seed	4.31	2.34	5.79	5.39	17.83	97	78
Ridgeway	Columbia Seeds	4.82	2.50	5.39	4.85	17.56	96	75
Potomac	Public	4.49	2.26	5.01	4.91	16.67	91	17
Mean		4.79	2.41	5.90	5.24	18.33	--	68
LSD 0.05		0.57	0.38	0.99	0.71	1.60	--	13.04

* Variety tested using experimental seed that may not give performance identical to that of commercially available seed.
[a] Variety is a festulolium
** NOTE** Due to the drought in 2008 there were only three harvest.
2008 Fertilization: 200 lb/a of 34-0-0 applied on 4-April, 150 lb/a applied on 10-June and 8-August.

Red Clover Variety Trial
Ohio, South Charleston, Sown 4-13-2006

Variety	Marketer	2008	2007	2006	2006-08	2006-08	% Stand
		-----Tons Dry Matter/Acre -----				% mean	39709
Dominion	Seed Rsch of Oregon	4.92	5.52	1.53	12.14	129	46
FSG 9601	Allied Seed	4.88	5.31	1.66	12.05	128	48
StarFire II*	Ampac Seed	4.69	5.55	1.58	11.76	125	51
Duration Extra*	Cisco	4.65	5.18	1.63	11.45	122	48
Cardinal	Seed Rsch of Oregon	4.70	5.10	1.57	11.45	122	24
PGI 33*	Producers Choice	4.23	4.99	1.55	10.56	112	53
NARN	DLF Int'l Seeds	4.03	5.10	1.39	10.39	110	16
Common **	Public	0.02	1.73	1.08	2.85	30	10
Red Gold **	Pro Seeds Marketing	0.97	0.93	0.24	2.07	22	20
Mean		3.67	4.38	1.36	9.41	35	--
LSD 0.05		0.73	0.31	0.32	0.96	24.3	--

* Variety tested using experimental seed that may not give performance identical to that of commercially available seed.
** NOTE** Red Gold & Common low yield is due to a poor stand.
2008 Fertility: 200 lb/a of 0-46-0 and 500 lb/a of 0-0-60, 2 ton of lime.

Orchardgrass Variety Trial
Ohio, South Charleston, Sown 4-13-2006

Variety	Marketer	2008	2007	2006	2006-08	2006-08	Maturity[a]
		---- Tons Dry Matter/Acre ----				% mean	20-May
OG 0204G*	Seed Rsch Oregon	5.11	6.48	3.72	15.30	123	3.8
Command	Seed Rsch Oregon	4.57	5.26	4.11	14.12	114	4.3
OG 001*	Seed Rsch Oregon	4.69	5.29	3.92	14.00	113	3.8
Endurance	DLF Intl.	4.27	4.81	4.42	13.56	109	4.3
Persist	Smith Seed Srvs.	4.75	5.13	3.49	13.40	108	4.5
Potomac	Public	4.37	5.21	3.19	12.83	103	3.3
Shiloh II	Pro Seed Mkt.	4.31	3.88	4.69	12.75	103	4.3
RAD-LCF-21*	Lewis Seed Co.	4.37	4.24	4.17	12.67	102	3.5
AGRDG 101*	Ag Rsch. USA	0.02	0.01	3.24	3.09	25	1.0
Mean		4.05	4.48	3.88	12.41	--	3.6
LSD 0.05		0.58	0.81	0.71	1.17	--	0.95

* Variety tested using experimental seed, may not perform identically to that of commercially available seed.
** **NOTE** ** variety AGRDG 101 did not survive the 2006 winter.
[a]Maturity: 1 =vegetative, 2 =early boot, 3 =initial emergence from boot,
4 =complete head emergence, 5 = elongated peduncle.
2008 Fertilization: 200 lb/a of 34-0-0 on 4-April, 150 lb/a on 24-May and 27-August

Teff Variety Trial
Ohio, South Charleston, Sown 6-12-2008

Variety	Marketer	21-Jul	18-Aug	25-Sep	Total 2008
		-------- Tons Dry Matter/Acre -------			
Tiffany	Gries Seed Farm	1.33	1.20	0.79	3.33
VA-T1 (Brown)	Hankins Seed	1.37	1.15	0.76	3.28
Dessie	Allied Seed	1.30	1.22	0.72	3.24
Mean		1.33	1.19	0.75	3.28
LSD 0.05		ns	ns	ns	ns

Establishment: Seeded in rows at 5 lb/acre.
2008 Fertilization: 130 lb/a of 46-0-0 was applied prior to planting.
ns = no significant difference

Sorghum x Sudangrass & Sudangrass Variety Trial
Ohio, South Charleston, Sown 6-12-2008

Variety	Marketer	21-Jul	18-Aug	25-Sep	Total 2008
		--------- Tons Dry Matter/Acre --------			
S-222[a]	Allied Seed	2.01	1.02	1.20	4.21
Greengrazer V[a]	Allied Seed	2.14	0.85	1.22	4.18
ProMax[b]	Ampac Seed	1.72	1.21	1.17	4.11
FSG 208 BMR[a]	Allied Seed	1.82	0.63	1.44	3.92
MS 202 BMR[a]	Allied Seed	1.86	0.85	1.17	3.89
Mean		1.91	0.91	1.24	4.06
LSD 0.05			0.23	0.22	0.42

Establishment: Seeded in rows at 24 lb/acre.
2008 Fertilization: 130 lb/a of 46-0-0 was applied prior to planting.
[a] Variety is sorghum x sudangrass.
[b] Variety is sudangrass.

Forage Sorghum Variety Trial
Ohio, South Charleston, Sown 6-12-2008

Variety	Marketer	25-Sep-08
		- Tons Dry Matter/Acre -
Cowvittles	Allied Seed	4.66
BMR 106	Allied Seed	4.04
Mean		4.35
LSD 0.05		0.58

Establishment: Seeded in rows at 12 lb/acre.
2008 Fertilization: 130 lb/a of 46-0-0 was applied prior to planting.

Annual Ryegrass Variety Trial
Ohio, South Charleston, Sown 9-6-2007

Variety	Marketer	1-Nov-07	Total 2008	Total 2007-08	Maturity[a] 7-May	Maturity[a] 30-May	Maturity[a] 12-Jun	% Stand May-08
		--- Tons Dry Matter/Acre ---						
RAD-CP5212*	Mountain View Seeds	0.14	5.62	5.76	1.1	3.1	5.0	96
MO-1*	DLF International	0.26	4.46	4.72	1.8	3.3	6.0	91
Max	Seed Research Oregon	0.26	4.42	4.69	1.0	2.7	4.5	86
Dino	Saddle Butte Ag Inc.	0.19	4.24	4.43	1.7	2.6	6.0	84
Ace	Snow Brand Seed	0.21	4.13	4.35	1.0	3.0	4.8	92
Barextra	Barenbrug	0.15	4.14	4.28	1.4	3.4	5.0	90
Hercules	Barenbrug	0.17	3.69	3.86	1.5	3.6	5.5	87
Flying A	Oregon Seeds Inc.	0.27	3.47	3.74	2.0	2.8	6.3	96
Marshall	Wax	0.14	3.60	3.74	2.0	2.3	6.0	97
Bounty	Saddle Butte Ag Inc.	0.23	3.47	3.70	2.6	3.2	6.5	94
FL/NE	Oregon Seeds Inc.	0.02	3.68	3.70	2.8	3.7	6.0	76
Striker	Seed Research Oregon	0.28	3.42	3.69	2.3	3.9	6.5	81
OCALA	AGSP	0.11	3.50	3.61	2.7	3.3	6.8	90
50561 TA*	AGSP	0.12	3.47	3.59	1.3	4.4	6.5	75
Tam TBO	Oregon Seeds Inc.	0.23	3.12	3.35	1.5	3.8	6.0	70
Jackson	Wax	0.22	2.92	3.14	3.3	4.1	7.0	80
Graze N Gro	Seed Research Oregon	0.18	2.92	3.09	1.8	4.1	6.5	88
Bulldog	Derry Warehouse Co.	0.20	2.89	3.09	3.1	3.4	6.5	81
Tachimusha	Snow Brand Seed	0.22	2.84	3.06	2.9	5.1	6.8	61
AM4N	The Seed Center	0.20	2.69	2.89	1.7	4.9	7.0	67
Billiken	Snow Brand Seed	0.24	2.53	2.77	1.2	4.1	5.3	65
Yushun	Snow Brand Seed	0.18	2.56	2.75	3.9	4.9	6.8	79
Gulf	Public	0.31	2.39	2.70	1.7	4.4	5.8	78
Dryann	Snow Brand Seed	0.22	2.37	2.59	2.2	4.4	7.0	77
Tachimasari	Snow Brand Seed	0.23	2.23	2.46	3.4	4.1	6.5	71
Hanamiwase	Snow Brand Seed	0.25	1.48	1.74	5.0	5.7	7.0	66
Mean		0.20	3.32	3.52	2.2	3.8	6.1	81
LSD 0.05		0.09	0.64	0.61	0.80	0.87	0.81	12.61

* Variety tested using experimental seed that may not give performance identical to that of commercially available seed.

Maturity[a] 1 =vegetative, 2 =early boot, 3 =initial emergence from boot, 4 =complete emergence, 5 = elongated peduncle, 6 = preanthesis, 7 = anthesis, 8 = post anthesis.

Perennial Ryegrass Variety Trial
Ohio, South Charleston, Sown 4-14-2005

Variety	Marketer	2008	2007	2006	2005	2005-08	2005-08
		----- Tons Dry Matter/Acre -----					% mean
Perun[a]	Byron Seeds	2.95	2.83	8.67	1.84	16.47	138
Aubisque	Seed Solutions	2.43	2.32	6.26	1.01	11.98	101
Mathilde	DLF International	2.54	1.87	6.06	1.22	11.64	98
Respect	Doeblers P.A. Hybrids	2.28	1.94	5.47	0.87	10.50	88
Portia	DLF International	2.40	1.75	4.87	1.00	9.87	83
CSBF 124[a]	Saddle Butte Ag	0.02	-0.34	3.70	1.26	4.60	39
Mean		2.39	2.00	6.30	1.23	11.92	--
LSD 0.05		0.47	0.72	0.85	0.36	1.52	--

[a] Varieties are festuloliums -- variety CSBF 124 did not survive the 2006 winter.
2008 Fertilization: Applied 150 lb/a of 34-0-0 4-April, 24-May and 26-June

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EXTENSION