Forage Tech Sheet

Profusion 2-HX Alfalfa

Perennial Legumes

Key Features

- Improved hybrid that continues the fine-stemmed herbage attributes that dairymen prefer for fast dry-down
- Best combination of forage yield and quality
- Highly productive in dry and wet production years
- Rapid recovery after harvest
- Drought tolerant and more uniform forage
- Growth habit has a greater forage yield accumulation later in the plant growth cycle
- Extended harvest window - growth stays juvenile/high-quality longer, giving more cutting flexibility
- Excellent disease resistance

Seeding rate: 18-22 lbs/A

Seed in early spring or late summer. Best with a cool season annual nurse crop like oats or a perennial pasture grass.

Disease		***Agronomic Traits***	
Bacterial Wilt	HR	Winter Survival	1.7
Fusarium Wilt	HR	Fall Dormancy	4.0
Phytophthora Root Rot	HR	Early Seedling Growth	Excellent
Verticillium Wilt	HR	Spring Vigor	Excellent
Anthracnose Root Rot(Race 1)	HR	Summer Re-growth	Aggressive
Aphanomyces Root Rot (Race 2)	MR	Drought Stress	Excellent
DRI	33/35	Fineness of Stem	Very Fine
		Forage Yield	9.6*
Nematode		Forage Quality	9.4*
Stem Nematode	HR	Traffic Tolerance	8.8*
		Recovery After Cutting	8.7*
Northern Root knot-Nematode	HR	Root Type	Tap
		Crown Depth	Average
		*1-10, 10 is best	

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High Energy Forages and Soil Building Cover Crops

2014 and 2015 Penn State University Alfalfa Trials

Landisville, Lancaster County, PA Southeast Ag Research and Extension Center

Sown April 5, 2013

	Yield (T/A DM Basis)									
	2015						2014	2 year	2 year	Stand
Entry	5/15	6/17	7/28	9/2	10/8	Total	Total	Total	Avg.	16-Oct
Profusion 2HX	2.38	2.06	2.18	1.73	1.08	9.48	9.73	19.20	9.60	88
msSunstra-D15	2.44	2.17	2.16	2.05	1.06	9.92	9.14	19.06	9.53	87
GA-535	2.51	2.33	2.32	1.88	1.29	10.33	8.57	18.90	9.45	89
msSunstra-D16	2.87	2.34	2.15	1.63	1.11	10.10	8.73	18.83	9.42	86
FSG 403LR	2.23	2.11	2.22	1.87	1.22	9.58	8.84	18.42	9.21	87
55Q27	2.09	2.01	2.06	1.85	1.39	9.39	8.83	18.23	9.11	88
Mariner IV	2.29	2.11	2.26	1.94	1.09	9.68	8.18	17.86	8.93	87
FSG 424	2.51	2.09	2.08	1.68	1.04	9.43	8.36	17.79	8.89	85
55V50	2.39	2.00	2.22	1.65	1.04	9.36	8.36	17.71	8.86	87
FSG 408DP	2.25	1.97	2.32	1.97	1.04	9.60	8.05	17.65	8.83	86
msSunstra-D11	2.16	1.78	2.18	1.59	0.91	8.64	8.95	17.59	8.80	88
Magnitude	2.50	2.16	2.21	2.06	1.25	10.26	7.32	17.58	8.79	87
msSunstra-D13	2.47	2.03	2.18	1.47	0.97	9.12	8.34	17.46	8.73	87
FSG 524	2.22	2.00	2.16	1.78	0.97	9.06	8.37	17.43	8.72	89
DKA 41-18	2.35	2.18	2.10	1.70	1.26	9.65	7.74	17.39	8.69	86
LS 905	2.32	2.26	2.19	1.71	1.21	9.62	7.74	17.35	8.68	86
L 455 HD	2.34	2.06	2.14	1.71	1.10	9.33	7.97	17.29	8.65	86
msSunstra-D12	1.86	1.81	1.98	1.36	0.99	8.01	9.07	17.08	8.54	87
5312	2.21	2.16	2.17	1.67	1.04	9.27	7.78	17.04	8.52	88
5454	2.37	2.15	1.99	1.60	1.02	9.14	7.72	16.86	8.43	86
55H94	2.63	2.11	2.09	1.69	1.04	9.48	7.36	16.84	8.42	84
Oneida VR	2.52	2.14	2.12	1.75	1.14	9.68	7.10	16.78	8.39	88
54QR04 RR	2.18	1.99	2.15	1.67	1.05	9.04	7.65	16.70	8.35	87
Vernal	2.28	2.09	2.10	2.07	1.28	9.80	6.72	16.53	8.26	85
DG 4210	2.14	2.04	1.97	1.57	1.22	8.94	7.49	16.43	8.21	88
428RR	2.06	1.98	2.00	1.51	0.85	8.40	7.78	16.18	8.09	86
NY 13-17	2.18	1.84	2.05	1.82	0.99	8.89	7.08	15.96	7.98	86
Ny 13-16	2.03	2.09	2.17	1.61	0.87	8.72	6.50	15.22	7.61	86
GRAND MEAN	2.31	2.07	2.14	1.73	1.09	9.35	8.05	17.41	8.70	87
CV (%)	16.65	12.53	14.65	25.38	26.49	13.44	9.68	7.82	7.82	2.75
LSD (p=.05)	0.54	0.36	0.44	0.62	0.40	1.76	1.09	2.03	1.02	3.34

- Trial established in 2013 with the first data collection taking place in 2014.
- Means are LSMEANS derived from statistical analysis. Therefore, season or multiple-year totals **may not be the arithmetic sum** of individual cuts or years, respectively.
- 28 entries, RCBD, 4 reps, analyzed with PROC MIXED procedure with anisotropic power model with LSMEAN of SAS using unadjusted CV's (SAS 2013, SAS Institute, Cary, NC.)
- Entries are ranked in order of decreasing yield based on the 2 year average.
- Stand score based on a scale from 1 to 100. A 100 is considered to be a perfect stand.

Cornell University Trials, 2015

2015 New York Alfalfa Yield Trials

Branton Farms, LeRoy, Genesee County, New York

Sow n July 2013

Released And Experimental Varieties	2015 Harvest (yields reported in tons/acre) 27-May	2-Jul	10-Aug	14-Oct	2015 Total t/a	2014 Total t/a	2-Yr Total t/a	% of Checks Mean 2015 Total	2-Yr Total
msSunstra-D17*	2.30	1.95	2.41	1.32	7.95	5.42	13.38	126	120
Profusion 2 HX	2.39	1.95	2.27	1.34	7.97	5.30	13.26	126	119
55V50	2.51	1.82	2.28	1.22	7.84	5.12	12.94	124	117
msSunstra-D11*	2.22	1.85	2.28	1.32	7.67	5.24	12.90	121	116
msSunstra-D15*	2.24	1.79	2.35	1.27	7.64	5.22	12.86	121	116
msSunstra-D16*	1.90	1.89	2.35	1.33	7.48	5.20	12.66	118	114
msSunstra-D13*	2.21	1.81	2.32	1.22	7.57	5.04	12.62	120	114
55Q27	2.27	1.84	2.34	1.16	7.63	4.96	12.59	121	113
FSG 424	2.33	1.92	2.46	1.11	7.79	4.78	12.57	123	113
FSG 403LR	2.24	1.77	2.21	1.21	7.41	5.14	12.56	117	113
DG 4210	2.28	1.85	2.26	1.11	7.52	4.86	12.40	119	112
FSG 524	2.12	1.83	2.33	1.03	7.31	4.81	12.12	116	109
N-R-GEE	2.15	1.71	1.98	1.08	6.92	5.07	12.00	109	108
Seedw ay 9558 SBR	2.24	1.77	1.97	1.01	6.99	4.98	11.97	110	108
EZRA	2.17	1.74	2.03	1.17	7.11	4.85	11.96	112	108
ONEIDA VR	1.93	1.54	1.85	1.13	6.44	4.90	11.35	102	102
5312	2.09	1.56	1.86	1.03	6.53	4.75	11.27	103	102
55H94	1.98	1.52	1.94	0.99	6.44	4.73	11.18	102	101
VERNAL	1.87	1.50	1.74	0.90	6.01	4.66	10.67	95	96
								Ck Mean	Ck Mean
Mean	2.15	1.75	2.12	1.10	7.13	4.94	12.06	6.33	11.10
5% LSD	0.31	0.1	0.16	0.12	0.51	0.35	0.72		
CV (%)	12.5	4.9	6.6	9.3	6.3	6.1	5.2		

^Variety means are LSMEANS derived from incomplete block statistical analysis. Therefore, season or multiple-year totals will not be the arithmetic sum of individual cuts or years, respectively.

*EXPERIMENTAL ENTRIES Overall means are for 25 trial entries.

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