

2014 New York Alfalfa Yield Trials; Cornell University; School of Integrative Plant Science, Plant Breeding and Genetics Section

J. Hansen and D. Viands

## ALFALFA REPORT

[Chazy Northern New York, USDA Plant Hardiness Zone 4b](#)

2011 Commercial and Experimental Seeding - Replanted in 2011 [Commercial and Experimental Seeding](#)

[2012 Commercial and Experimental Seeding](#)

[Cobleskill, Eastern New York, USDA Plant Hardiness Zone 5b](#)

2012 Commercial and Experimental Seeding

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[LeRoy, Western New York, USDA Plant Hardiness Zone 6a](#)

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[Richfield Springs, Eastern New York, USDA Plant Hardiness Zone 5a](#)

2014 Commercial and Experimental Seeding

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2014 New York Alfalfa Yield Trials; Cornell University; School of Integrative Plant Science, Plant Breeding and Genetics Section

**2014 New York Alfalfa Yield Trials**

Cornell University Agricultural Experiment Station, Tompkins County, Ithaca

Sown May 2011

Released And Experimental Varieties	2014 Harvest ( tons/acre)				% of Checks Mean	
		2013 Total t/a	2012 Total t/a	2-Yr. Total t/a	2013 Total	2-Yr Total
DSB09-M*		7.14	5.53	12.66	137	128
DSB03-T*	TRIAL WINTERKILLED	6.92	5.67	12.59	133	127
MAGNUM 7-WET*		6.80	5.78	12.58	130	127
DSB01-T*		6.78	5.79	12.57	130	127
BOBWHITE 2ML*		7.15	5.40	12.54	137	126
SENECA*		6.85	5.67	12.51	131	126
SECURE-BR*		6.97	5.52	12.50	134	126
STOCKPILE*		7.08	5.33	12.41	136	125
DSB07-L*		6.73	5.61	12.35	129	125
DSB02-T*		6.82	5.45	12.27	131	124
FG 45A119*		6.65	5.23	11.87	128	120
AMERISTAND 407TQ		6.58	5.17	11.75	126	118
DG 4210		6.73	5.02	11.75	129	118
55V50		6.57	5.15	11.72	126	118
GUNNER		6.63	5.09	11.72	127	118
REBOUND 6.0		6.77	4.90	11.68	130	118
WL 354HQ		6.60	4.94	11.54	127	116
DSB04-BR*		6.26	5.26	11.53	120	116
PROLIFIC II		6.22	5.15	11.38	119	115
PGI 557		6.49	4.88	11.36	125	115
9558 SBR*		6.16	5.19	11.33	118	114
ARCHER III		6.49	4.77	11.26	125	114
EZRA		6.18	5.05	11.24	119	113
PGI 215		6.11	5.06	11.17	117	113
PHIRST EXTRA		5.96	5.13	11.10	114	112
PERSIST II		5.90	5.04	10.94	113	110
5010*		6.33	4.60	10.92	122	110
N-R-GEE		5.99	4.43	10.42	115	105
5312		5.54	4.74	10.28	106	104
ONEIDA VR		5.45	4.57	10.01	105	101
VERNAL		4.63	4.83	9.47	89	95
Mean		6.33	5.07	11.4	Ck. Mean 5.21	Ck. Mean 9.92
5% LSD		0.34	0.43	0.65		
CV (%)		4.3	6.7	4.6		

^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 40 trial entries.

Ck or Check cultivars are Pioneer 5312, Oneida VR, and Vernal.

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**2014 New York Alfalfa Yield Trials**

William H. Miner Agricultural Research Institute, Chazy, Clinton County, NY

Sown June 2012

Released And Experimental Varieties	2014 Harvest ( tons/acre)			2014 Total t/a	2013 Total t/a	2-Yr Total t/a	% of Checks Mean	
	1-Jun	21-Jul	25-Aug				2014 Total	2-Yr Total
	msSunstra-B12*	2.12	2.37				1.39	5.87
HYBRIFORCE 3400*	2.02	2.29	1.41	5.73	6.28	12.12	114	117
SENECA*	2.09	2.31	1.40	5.79	6.26	12.01	116	116
55V50	2.07	2.37	1.29	5.74	5.73	11.51	115	111
PHIRST EXTRA	2.01	2.15	1.26	5.42	5.94	11.35	108	110
PERSIST II	1.96	2.30	1.29	5.56	5.71	11.25	111	109
PGI 557	2.04	2.20	1.29	5.54	5.69	11.24	111	109
ARCHER III	2.04	2.14	1.33	5.52	5.64	11.21	110	108
WL 354HQ	2.05	2.13	1.31	5.49	5.54	11.15	110	108
PROLIFIC II	1.94	2.24	1.29	5.46	5.72	11.15	109	108
REBOUND 6.0	2.10	2.16	1.27	5.51	5.39	11.00	110	106
GUNNER	2.04	2.14	1.26	5.47	5.41	10.99	109	106
PGI 215	1.95	2.11	1.27	5.32	5.41	10.89	106	105
DG 4210	1.94	2.10	1.28	5.30	5.52	10.83	106	105
5010*	1.92	2.15	1.25	5.34	5.34	10.67	107	103
9558 SBR*	1.90	2.03	1.19	5.14	5.40	10.60	103	102
FG 45A119*	1.99	2.10	1.25	5.33	5.20	10.56	106	102
VERNAL	1.97	2.06	1.11	5.14	5.24	10.44	103	101
ONEIDA VR	1.81	2.02	1.15	5.01	5.37	10.42	100	101
5312	1.71	2.07	1.09	4.87	5.34	10.18	97	98
Mean	1.96	2.17	1.25	5.38	5.52	10.97	Ck. Mean 5.01	Ck. Mean 10.35
5% LSD	0.33	0.18	0.12	0.53	0.40	0.88		
CV (%)	13.4	6.7	7.9	7.8	5.7	6.4		

^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 28 trial entries.

Trial will be harvested in 2015.

Ck or Check cultivars are Pioneer 5312, Oneida VR, and Vernal.

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**2014 New York Alfalfa Yield Trials**

State University of New York at Cobleskill, Schoharie County, NY

Sown May 2012

Released And Experimental Varieties	2014 Harvest ( tons/acre)			2014 Total t/a	2013 Total t/a	2-Yr Total t/a	% of Checks Mean	
	9-Jun	16-Jul	18-Aug				2014 Total	2-Yr Total
msSunstra-C14*	3.12	2.58	1.77	7.47	7.38	14.86	127	125
HYBRIFORCE 3400QR*	3.14	2.47	1.74	7.35	7.47	14.83	125	124
PERSIST III*	3.15	2.54	1.76	7.45	7.26	14.72	127	123
msSunstra-C15*	3.01	2.45	1.72	7.19	7.48	14.68	122	123
HYBRIFORCE 3400*	3.13	2.40	1.69	7.23	7.39	14.61	123	123
msSunstra-C13*	3.04	2.50	1.68	7.22	7.26	14.50	123	122
CRAVE*	3.03	2.56	1.66	7.26	7.07	14.34	123	120
msSunstra-C12*	2.96	2.52	1.68	7.15	7.01	14.16	122	119
MARINER IV	3.03	2.42	1.69	7.14	7.00	14.14	121	119
msSunstra-C10*	3.01	2.46	1.68	7.14	6.99	14.12	121	118
55V50	3.01	2.51	1.55	7.08	6.65	13.72	120	115
MAGNITUDE	2.96	2.52	1.66	7.14	6.49	13.64	121	114
MASKA	3.01	2.42	1.54	6.96	6.66	13.64	118	114
PGI 529*	2.86	2.73	1.76	7.34	6.14	13.48	125	113
GEMSTONE	2.89	2.60	1.71	7.21	6.27	13.46	123	113
msSunstra-C11*	2.85	2.37	1.55	6.76	6.66	13.43	115	113
EZRA	2.95	2.33	1.46	6.74	6.54	13.29	115	112
REGEN	2.90	2.23	1.38	6.52	6.66	13.17	111	110
BRADOR	2.85	2.25	1.44	6.53	6.57	13.11	111	110
9558 SBR*	2.95	2.25	1.48	6.68	6.21	12.90	114	108
FG 48A177*	2.79	2.44	1.70	6.93	5.94	12.88	118	108
5312	2.77	2.09	1.34	6.21	6.39	12.59	106	106
N-R-GEE	2.79	2.23	1.49	6.52	6.08	12.58	111	106
55H94	2.67	2.16	1.45	6.26	6.04	12.29	106	103
ONEIDA VR	2.62	2.02	1.34	5.97	6.19	12.17	102	102
VERNAL	2.49	1.78	1.18	5.44	5.57	10.99	93	92
Mean	2.89	2.35	1.56	6.80	6.55	13.34	Ck. Mean 5.88	Ck. Mean 11.92
5% LSD	0.17	0.16	0.11	0.34	0.34	0.58		
CV (%)	4.7	5.3	5.4	4.0	4.1	3.5		

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\*EXPERIMENTAL ENTRIES Overall means are for 32 trial entries. Trial will be harvested in 2015.

Ck or Check cultivars are Pioneer 5312, Oneida VR, and Vernal.

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**2014 New York Alfalfa Yield Trials**

Cornell University Agricultural Experiment Station, Tompkins County, Ithaca

Sown May 2012

Released And Experimental Varieties	2014 Harvest ( tons/acre)			2014 Total t/a	2013 Total t/a	2-Yr. Total t/a	% Stand 10/2/2014	% of Checks Mean	
	5-Jun	23-Jul	7-Sep					2014 Total	2-Yr. Total
DSC02-T*	2.47	2.41	1.59	6.45	7.01	13.46	87	138	130
55V50	2.52	2.51	1.55	6.58	6.78	13.36	88	141	129
MAGNUM 7-WET*	2.46	2.46	1.60	6.51	6.80	13.31	85	139	128
PERSIST III*	2.41	2.38	1.56	6.35	6.86	13.20	86	136	127
CRAVE*	2.43	2.27	1.56	6.27	6.84	13.11	82	134	127
DSC01-T*	2.27	2.28	1.53	6.08	6.88	12.96	86	130	125
DSC04-BR*	2.35	2.26	1.52	6.15	6.78	12.94	83	132	125
DSC03-BR*	2.34	2.32	1.52	6.18	6.69	12.87	83	132	124
DSC06-M*	2.34	2.22	1.48	6.04	6.71	12.74	86	129	123
DSC05-BR*	2.26	2.26	1.50	6.02	6.70	12.73	81	129	123
505004*	2.31	2.32	1.57	6.21	6.48	12.68	87	133	122
PGI 529*	2.34	2.44	1.46	6.24	6.25	12.49	88	134	121
MARINER IV	2.22	2.22	1.49	5.92	6.50	12.42	82	127	120
REGEN	2.28	2.13	1.45	5.87	6.43	12.30	83	126	119
MAGNUM 7*	2.16	2.16	1.42	5.74	6.50	12.25	84	123	118
MAGNITUDE	2.27	2.25	1.47	5.98	6.17	12.16	88	128	117
GEMSTONE	2.16	2.25	1.48	5.90	6.09	11.98	89	126	116
FG 48A177*	2.23	2.20	1.47	5.90	6.00	11.90	88	126	115
MASKA	2.22	2.08	1.37	5.66	6.23	11.89	84	121	115
EZRA	2.18	2.10	1.37	5.65	6.24	11.88	84	121	115
LEGACY 449APH2	2.07	2.18	1.37	5.63	6.24	11.87	82	120	115
9558 SBR*	2.18	2.13	1.40	5.71	6.11	11.83	86	122	114
BRADOR	2.03	1.92	1.23	5.18	5.93	11.10	80	111	107
N-R-GEE	1.99	1.80	1.27	5.05	5.91	10.95	83	108	106
55H94	1.86	1.94	1.25	5.04	5.81	10.85	82	108	105
5312	1.92	1.84	1.18	4.94	5.72	10.66	80	106	103
ONEIDA VR	1.70	1.75	1.17	4.63	5.71	10.34	81	99	100
VERNAL	1.72	1.65	1.08	4.43	5.65	10.09	74	95	97
Mean	2.17	2.14	1.42	5.72	6.29	12.02	84	4.67	10.36
5% LSD	0.16	0.15	0.10	0.33	0.26	0.51	3		
CV (%)	5.9	5.7	5.6	4.6	3.2	3.4	3.1		

Ck. Mean

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\*EXPERIMENTAL ENTRIES

Overall means are for 32 trial entries.

Trial will be harvested in 2015.

Ck or Check cultivars are Pioneer 5312, Oneida VR, and Vernal.

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**2014 New York Alfalfa Yield Trials**

Cornell University Agricultural Experiment Station, Tompkins County, Ithaca

Sown May 2013

Released And Experimental Varieties	2014 Harvest ( tons/acre)			% of Checks Mean		
	18-Jun	4-Aug	14-Sep	2014 Total t/a	2014 Total	2014 % Stand
55V50	2.73	2.29	1.45	6.47	125	82
DSD05-T*	2.61	2.27	1.39	6.27	122	80
DSD02-T*	2.67	2.14	1.46	6.27	122	78
DSD04-T*	2.60	2.14	1.37	6.11	118	75
DSD01-T*	2.49	2.15	1.41	6.06	117	80
DSD06-M*	2.57	2.12	1.35	6.04	117	79
FSG 403LR	2.53	2.10	1.39	6.01	117	77
SHOCKWAVE BR*	2.54	2.11	1.33	5.99	116	74
55H94	2.56	2.05	1.27	5.89	114	78
55Q27	2.35	2.07	1.45	5.87	114	81
DSD07-M*	2.36	2.08	1.37	5.81	113	76
EZRA	2.51	2.04	1.25	5.81	113	78
L 455HD	2.37	2.01	1.36	5.73	111	82
FSG 329	2.25	2.05	1.32	5.61	109	71
FSG 408DP	2.27	2.01	1.28	5.56	108	73
9558 SBR	2.34	1.90	1.26	5.51	107	77
DG 4210	2.08	1.95	1.43	5.46	106	81
FSG 424	2.23	1.89	1.32	5.44	105	75
5312	2.33	1.91	1.15	5.40	105	72
N-R-GEE	2.22	1.88	1.27	5.37	104	80
LS 905*	2.04	1.92	1.28	5.24	102	78
VERNAL	2.20	1.85	1.16	5.21	101	67
OPTIMUS*	2.07	1.87	1.27	5.21	101	76
DKA41-18RR	2.08	1.87	1.25	5.20	101	76
FSG 524	1.99	1.75	1.31	5.04	98	77
ONEIDA VR	2.03	1.73	1.11	4.87	94	75
					Check Mean	
Mean	2.31	1.98	1.32	5.60	5.16	77
5% LSD	0.20	0.15	0.11	0.41		6
CV (%)	7.0	5.9	6.9	5.8		5.8

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Ck or Check cultivars are Pioneer 5312, Oneida VR, and Vernal.

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**2014 New York Alfalfa Yield Trials**

Branton Farms, LeRoy, Genesee County, New York

Sown July 2013

Released And Experimental Varieties	2014 Harvest ( tons/acre)				% of Checks Mean	
	29-May	9-Jul	27-Aug	19-Oct	2014 Total t/a	2014 Total
msSunstra-D17*	2.13	Trial	2.40	0.90	5.42	114
msSunstra-D14*	2.11	was	2.32	0.88	5.30	111
msSunstra-D11*	2.05	Cut	2.33	0.86	5.24	110
msSunstra-D15*	2.07	off	2.31	0.87	5.22	110
msSunstra-D16*	2.14		2.14	0.93	5.20	109
FSG 403LR	2.03		2.27	0.83	5.14	108
55V50	1.99		2.27	0.86	5.12	107
N-R-GEE	2.00		2.26	0.80	5.07	106
msSunstra-D13*	2.06		2.11	0.88	5.04	106
9558 SBR	1.95		2.26	0.76	4.98	104
55Q27	1.93		2.21	0.81	4.96	104
ONEIDA VR	1.89		2.23	0.79	4.90	103
DG 4210	1.89		2.16	0.82	4.86	102
EZRA	2.00		2.02	0.82	4.85	102
FSG 524	1.85		2.12	0.83	4.81	101
FSG 424	1.85		2.13	0.80	4.78	100
5312	1.86		2.12	0.76	4.75	100
55H94	1.80		2.23	0.70	4.73	99
VERNAL	1.81		2.22	0.63	4.66	98
						Ck. Mean
Mean	1.95		2.20	0.80	4.94	4.77
5% LSD	0.09		0.28	0.07	0.35	
CV (%)	3.9		11.0	8.1	6.1	

^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. Trial will be harvested in 2015.

Ck or Check cultivars are Pioneer 5312, Oneida VR, and Vernal.

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**2014 New York Alfalfa Yield Trials**

Cornell University Agricultural Experiment Station, Tompkins County, Ithaca

Sown May 2014

Released And Experimental Varieties	9-Sep-14 (tons/acre)	% of Checks Mean	
		2014 Total	% Stand 28-Oct
AFXH134092*	1.53	123	95
55V50	1.51	121	95
AFXH134090*	1.43	116	95
AFXH134091*	1.40	113	95
55Q27	1.37	111	95
55H94	1.35	109	95
EZRA	1.31	106	95
BRADOR	1.30	105	95
5312	1.29	104	93
MASKA	1.28	103	95
LS 706	1.28	103	94
VERNAL	1.27	103	90
REGEN	1.27	102	93
9558 SBR	1.18	95	95
ONEIDA VR	1.17	94	94
Ck. Mean			
Mean	1.25	1.24	94
5% LSD	0.11		2
CV (%)	7.0		1.6

^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 24 trial entries.

Trial will be harvested in 2015.

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**2014 New York Alfalfa Yield Trials**

Richfield Springs, Moore Farm

Sown May 2014

Released And Experimental Varieties
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5312 Yields available in 2015

55H94

55Q27

55V50

AFX065033\*

AFX083003\*

AFX085029\*

AFX094017\*

BRADOR

L-455HD

MASKA

ONEIDA VR

VERNAL



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**2014 New York Alfalfa Yield Trials - ROUNDUP READY ALFALFA**

Cornell University Agricultural Experiment Station, Tompkins County, Ithaca

Sown May 2013

Released And Experimental Varieties	2014 Harvest ( tons/acre)			2014 Total t/a	2014 % of Trial Mean	2014 % Stand
	22-Jun	6-Aug	15-Sep			
428RR	2.62	2.06	1.32	6.00	104	79
54QR04	2.61	2.00	1.26	5.87	101	81
WL 372HQ.RR	2.61	1.98	1.27	5.87	101	77
6497R	2.52	2.02	1.29	5.83	101	77
DKA44-16RR	2.57	1.96	1.29	5.82	101	77
DKA41-18RR	2.50	1.85	1.22	5.57	96	80
WL 356HQ.RR	2.57	1.82	1.16	5.54	96	78
Mean	2.57	1.96	1.26	5.79		78
5% LSD	0.14	0.13	0.10	0.31		4
CV (%)	4.1	5.1	6.2	4.0		3.5

Trial will be harvested in 2015.

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**2014 New York Alfalfa Yield Trials - ROUNDUP READY ALFALFA**

Cornell University Agricultural Experiment Station, Tompkins County, Ithaca

Sown May 2014

Released And Experimental Varieties	2014 ( tons/acre) 16-Sep	% of Trial Mean	
		2014 Total	% Stand 12-Nov
DKA43-22RR	1.37	108	95
54QR04	1.28	101	95
DKA41-18RR	1.24	98	94
DKA40-51RR	1.23	97	94
DKA44-16RR	1.23	97	94
Mean	1.27		94
5% LSD	0.10		2
CV (%)	5.8		1.9

Trial will be harvested in 2015.