

Minnesota
University of Minnesota-Department of Agronomy and Plant Genetics
Rosemount, Dakota County, UMore Park
Sown April 23, 2010

Entry (by total yield)	2010 Harvest (tons DM/acre)		Seeding Yr Total	Relative Yield
	9-Jul	8-Sep		Seeding-Yr % of Checks
<u>Released Varieties</u>				
HYBRIFORCE-2400	1.97	1.65	3.62	106
375HY/BR	1.89	1.59	3.48	102
4S417	1.79	1.63	3.42	100
DKA43-13	1.81	1.51	3.31	97
55V48	1.76	1.55	3.31	97
54Q32	1.84	1.40	3.24	95
DG 4210	1.74	1.48	3.23	95
PHIRST EXTRA	1.78	1.44	3.22	95
WL343HQ	1.79	1.44	3.22	95
REBOUND 6.0	1.71	1.47	3.18	93
<u>Experimentals</u>				
MSSUNSTRA-A13	2.05	1.76	3.81	112
MSSUNSTRA-A14	2.02	1.71	3.73	109
MSSUNSTRA-A11	1.95	1.66	3.60	106
MSSUNSTRA-A12	1.85	1.70	3.55	104
MSSUNSTRA-A10	1.90	1.64	3.53	104
50V50	1.74	1.61	3.35	98
MSSUNSTRA-A15	1.73	1.58	3.31	97
<u>Checks</u>				
VERNAL	1.86	1.56	3.42	100
ONEIDA VR	1.91	1.67	3.58	105
5312	1.75	1.47	3.22	95
3 Check Mean	1.84	1.57	3.41	100
	1.84	1.58	3.42	100
Range	0.34	0.36	0.63	19
LSD 5%	0.19	0.22	0.35	10
CV %	7.1	10.0	7.17	7.2
MCV (LSD/Mean)	0.10	0.14	0.10	0.10
LSR (LSD/Range)	0.55	0.62	0.55	0.55

Minnesota

University of Minnesota-Department of Agronomy and Plant Genetics

Rosemount, Dakota County, UMore Park

Sown May 5, 2009

Entry (by total yield)	2010 Harvest (tons DM/acre)				1 Year Total	Relative Yield 1
	19-May	30-Jun	3-Aug	3-Sep		Yr % of Checks
<u>Released Varieties</u>						
AMERISTAND 407TQ	1.85	1.49	1.79	0.82	5.94	116
HYBRIFORCE-2400	1.89	1.52	1.72	0.81	5.93	116
55V48	1.81	1.50	1.73	0.81	5.85	114
CHESAPEAKE	1.68	1.41	1.86	0.83	5.78	113
REBOUND 5.0	1.76	1.46	1.68	0.81	5.70	111
HYBRIFORCE-2420/Wet	1.90	1.41	1.61	0.76	5.68	111
4S417	1.86	1.45	1.59	0.79	5.68	111
WL 363 HQ	1.59	1.52	1.74	0.83	5.68	111
6422Q	1.60	1.44	1.77	0.84	5.65	110
FSG 420LH	1.65	1.36	1.53	0.79	5.32	104
VELOCITY	1.58	1.44	1.50	0.71	5.23	102
AMERISTAND 403T PLUS	1.66	1.35	1.42	0.66	5.09	99
<u>Experimentals</u>						
MSUNTRA-902	1.90	1.60	1.94	0.92	6.36	124
MSSUNTRA-803	1.99	1.51	1.74	0.89	6.13	120
MSUNTRA-903	1.92	1.48	1.77	0.87	6.04	118
VELOCITY, clay	1.81	1.46	1.87	0.85	5.98	117
MSUNTRA-901	1.79	1.56	1.55	0.84	5.74	112
CW 044026	1.80	1.44	1.64	0.86	5.73	112
55V12	1.69	1.32	1.43	0.79	5.23	102
54Q32	1.42	1.41	1.52	0.79	5.14	100
<u>Checks for FQ</u>						
CIMARRON	1.73	1.42	1.55	0.80	5.50	107
WL 322HQ	1.47	1.46	1.41	0.74	5.08	99
<u>Checks</u>						
5312	1.83	1.45	1.62	0.80	5.71	111
ONEIDA VR	1.63	1.29	1.40	0.75	5.06	99
VERNAL	1.60	1.20	1.25	0.58	4.63	90
3 Check Mean	1.69	1.31	1.42	0.71	5.13	100
Mean	1.74	1.44	1.62	0.80	5.59	109
Range	0.57	0.40	0.69	0.35	1.73	34
LSD 5%	0.23	0.16	0.22	0.12	0.53	10
CV %	9.2	8.1	9.8	10.5	6.7	6.7
MCV (LSD/Mean)	0.13	0.11	0.14	0.15	0.09	0.09
LSR (LSD/Range)	0.40	0.41	0.33	0.34	0.30	0.30

Minnesota
University of Minnesota-Department of Agronomy and Plant Genetics
Rosemount, Dakota County, UMore Park
Sown May 6, 2008

Entry (by total yield)	2010 Harvest (tons DM/acre)				2010 Total	2009 Total	2 Year Total	Relative Yield 2 Yr % of Checks
	19-May	28-Jun	2-Aug	3-Sep				
<u>Released Varieties</u>								
HYBRIFORCE-2400	2.68	2.18	2.17	1.11	8.13	5.86	13.99	118
4S417	2.53	2.10	2.05	1.04	7.72	6.12	13.84	116
55V48	2.58	2.08	2.10	1.04	7.80	5.58	13.37	113
AMERISTAND 407TQ	2.58	2.09	2.09	1.04	7.80	5.48	13.28	112
DKA43-13	2.48	2.08	2.03	1.06	7.65	5.61	13.26	112
HYBRIFORCE-2420/Wet	2.68	2.03	2.02	1.05	7.78	5.47	13.25	112
VELOCITY	2.45	1.93	1.84	1.05	7.28	5.89	13.16	111
PHIRST EXTRA	2.50	1.90	1.95	1.05	7.40	5.71	13.11	110
LIGHTNING IV	2.47	2.01	2.08	1.00	7.55	5.55	13.10	110
6415	2.56	2.10	2.00	1.04	7.70	5.34	13.04	110
6417	2.45	1.98	1.91	1.00	7.34	5.49	12.83	108
6431	2.52	2.01	1.92	1.01	7.45	5.38	12.82	108
LEGEND EXTRA	2.53	1.74	1.96	1.00	7.21	5.29	12.51	105
<u>Experimentals</u>								
MSSUNSTRA-805	2.75	2.07	2.09	1.11	8.01	5.88	13.89	117
MSSUNSTRA-804	2.44	2.05	2.15	1.10	7.73	5.79	13.52	114
MSSUNSTRA-803	2.73	1.89	2.14	1.07	7.83	5.49	13.32	112
CW13015	2.36	1.89	1.97	1.00	7.22	5.39	12.61	106
<u>Checks for FQ</u>								
					0.00			
CIMARRON	2.29	1.78	1.60	0.94	6.61	5.35	11.96	101
WL 322HQ	2.59	1.88	1.81	0.96	7.24	5.06	12.30	104
<u>Checks</u>								
5312	2.53	1.84	1.81	0.93	7.11	5.27	12.37	104
ONEIDA VR	2.35	1.66	1.67	0.86	6.54	5.10	11.65	98
VERNAL	2.40	1.62	1.56	0.87	6.44	5.17	11.62	98
3 Check Mean	2.43	1.71	1.68	0.89	6.70	5.18	11.88	100
Mean	2.52	1.95	1.95	1.01	7.11	5.51	12.94	109
Range	0.46	0.56	0.61	0.25	8.13	1.07	2.38	20
LSD 5%	0.25	0.18	0.24	0.09	0.51	0.39	0.75	6
CV %	7.1	6.6	8.7	5.9	4.8	5.0	4.1	4.1
MCV (LSD/Mean)	0.10	0.09	0.12	0.08	0.07	0.07	0.06	0.06
LSR (LSD/Range)	0.55	0.33	0.39	0.34	0.06	0.37	0.31	0.31

Minnesota
 University of Minnesota-Department of Agronomy and Plant Genetics
 Rosemount, Dakota County, UMore Park
 Sown April 26, 2007

Entry (by total yield)	2010 Harvest (tons DM/acre)					2009 Total	2008 Total	3-Yr Total	Relative Yield
	25-May	30-Jun	3-Aug	1-Oct	Total				3-Yr % of Checks
Released Varieties									
6417	2.27	2.02	1.37	1.01	6.66	4.61	5.57	16.83	109
6426	2.21	1.79	1.12	0.93	6.05	4.55	5.61	16.20	105
55V48	2.44	2.15	1.31	1.06	6.96	4.82	5.80	17.57	114
Ameristand 407TQ	2.45	2.00	1.29	1.04	6.77	4.17	5.74	16.68	108
FOREMOST II	2.45	1.92	1.31	1.22	6.89	4.56	5.88	17.34	112
FSG 406	2.41	1.97	1.31	1.06	6.75	4.86	5.71	17.31	112
PHABULOUS III	2.51	2.53	1.39	1.05	7.48	4.77	5.86	18.10	117
SPRINGGOLD	2.38	2.03	1.34	1.22	6.96	4.57	5.70	17.23	111
Experimentals									
FG 44M125	2.29	2.14	1.42	1.07	6.91	4.64	5.68	17.23	111
FG 44M317	2.22	2.31	1.45	1.05	7.03	4.39	5.83	17.25	112
FG 44M318	2.41	2.49	1.45	1.15	7.50	4.81	6.01	18.32	118
MSSUNSTRA-713	2.39	1.87	1.27	1.16	6.68	3.99	5.68	16.35	106
MSSUNSTRA-714	2.55	2.07	1.30	1.18	7.10	4.49	5.90	17.48	113
MSSUNSTRA-715	2.52	1.90	1.21	1.11	6.74	4.73	6.03	17.49	113
MSSUNSTRA-716	2.45	2.04	1.34	1.14	6.96	5.00	6.45	18.42	119
MSSUNSTRA-717	2.58	2.03	1.31	1.16	7.07	4.64	6.09	17.79	115
MSSUNSTRA-718	2.20	2.08	1.18	1.09	6.55	4.25	5.53	16.33	106
MSSUNSTRA-719	2.44	2.11	1.28	1.09	6.92	4.62	6.26	17.80	115
MSSUNSTRA-720	2.48	1.99	1.25	1.06	6.77	4.15	5.96	16.88	109
TS-4007	2.38	1.85	1.14	1.07	6.44	4.55	5.65	16.63	108
TS-4027	2.34	2.12	1.21	0.98	6.64	4.12	5.76	16.51	107
Checks for FQ									
CIMARRON	2.17	1.71	1.04	1.12	6.03	4.56	5.50	16.09	104
WL 322HQ	2.36	1.87	1.09	0.96	6.28	4.53	5.46	16.26	105
Checks									
5312	2.35	1.78	1.08	1.02	6.23	4.25	5.55	16.02	104
ONEIDA VR	2.29	1.76	1.03	1.02	6.09	4.07	4.97	15.13	98
VERNAL	2.36	1.63	0.96	0.98	5.93	4.03	5.27	15.23	98
3 Check Mean	2.33	1.72	1.02	1.01	6.08	4.11	5.26	15.46	100
Mean	2.38	2.00	1.25	1.08	6.71	4.49	5.75	16.94	110
Range	0.41	0.90	0.50	0.29	1.57	1.02	6.45	3.28	21
LSD 5%	0.17	0.29	0.16	0.18	0.55	0.62	0.47	1.36	9
CV %	5.1	10.1	8.8	11.6	5.9	9.8	5.8	5.7	5.7
MCV (LSD/Mean)	0.07	0.14	0.12	0.16	0.08	0.14	0.09	0.08	0.08
LSR (LSD/Range)	0.42	0.32	0.31	0.60	0.35	0.61	0.07	0.41	0.41

Minnesota
University of Minnesota-Department of Agronomy and Plant Genetics
Zumbro Falls, Wabasha County Farm
Sown April 28, 2010

Entry (by total yield)	2010 Harvest (tons DM/acre)		Seeding Yr Total	Relative Yield
	2-Jul	4-Aug		Seeding-Yr % of Checks
<u>Released Varieties</u>				
4A415	1.64	1.70	3.33	109
HYBRIFORCE-2400	1.69	1.63	3.32	109
REBOUND 6.0	1.56	1.69	3.25	107
6417	1.58	1.57	3.15	103
54Q32	1.56	1.57	3.13	103
6422Q	1.49	1.63	3.12	102
PGI557	1.52	1.60	3.12	102
55V48	1.50	1.59	3.09	101
DG 4210	1.45	1.63	3.08	101
DKA43-13	1.46	1.58	3.03	99
<u>Experimentals</u>				
DSA03-T	1.83	1.85	3.68	121
DSA08-M	1.77	1.76	3.53	116
DSA01-T	1.70	1.75	3.45	113
DSA04-M	1.62	1.76	3.37	111
DSA02-T	1.65	1.72	3.37	111
50V50	1.63	1.65	3.28	108
<u>Checks</u>				
VERNAL	1.56	1.38	2.94	96
ONEIDA VR	1.54	1.50	3.05	100
5312	1.51	1.66	3.16	104
3 Check Mean	1.54	1.51	3.05	100
Mean	1.59	1.64	3.23	106
Range	0.38	0.47	0.74	24
LSD 5%	0.19	0.17	0.27	9
CV %	8.4	7.5	5.94	5.9
MCV (LSD/Mean)	0.12	0.11	0.08	0.08
LSR (LSD/Range)	0.50	0.37	0.37	0.37

Minnesota
University of Minnesota-Department of Agronomy and Plant Genetics
Zumbro Falls, Wabasha County Farm
Sown May 8, 2008

Entry (by total yield)	2010 Harvests (tons DM/acre)			2010	2009	2	Relative
	25-May	2-Jul	4-Aug	Total	Total	Year	Yr % of
						Total	2
							Yr % of
							Checks
<u>Released Varieties</u>							
DKA43-13	2.26	1.53	1.52	5.31	5.44	10.75	117
AMERISTAND 407TQ	2.27	1.52	1.57	5.36	5.19	10.55	115
AV4211	2.22	1.39	1.50	5.11	5.25	10.36	112
WL 343HQ	2.11	1.44	1.49	5.03	5.28	10.30	112
GENOA	2.26	1.50	1.53	5.30	4.98	10.28	112
4A415	2.27	1.40	1.56	5.22	5.00	10.22	111
LIGHTNING IV	2.19	1.46	1.50	5.15	5.02	10.17	110
6431	2.13	1.38	1.53	5.04	5.12	10.16	110
6415	2.23	1.49	1.50	5.23	4.90	10.13	110
6417	2.16	1.47	1.47	5.10	5.00	10.10	110
PGI 459	2.03	1.43	1.51	4.97	4.98	9.95	108
GH727	2.12	1.39	1.50	5.01	4.93	9.94	108
55V48	2.17	1.45	1.46	5.09	4.72	9.81	106
VELOCITY	2.11	1.41	1.48	5.01	4.75	9.76	106
WL 363HQ	2.12	1.37	1.46	4.94	4.79	9.73	106
LEGEND EXTRA	2.05	1.40	1.49	4.93	4.78	9.71	105
4030	2.21	1.35	1.43	4.98	4.71	9.69	105
<u>Experimentals</u>							
CW13015	2.03	1.39	1.47	4.88	5.05	9.93	108
<u>Checks</u>							
5312	2.26	1.23	1.22	4.71	4.82	9.53	103
ONEIDA VR	1.95	1.23	1.32	4.50	4.71	9.21	100
VERNAL	2.08	1.12	1.16	4.36	4.54	8.90	97
3 Check Mean	2.10	1.19	1.23	4.52	4.69	9.21	100
Mean	2.15	1.40	1.46	5.01	4.95	9.96	108
Range	0.32	0.41	0.42	1.01	0.90	1.85	20
LSD 5%	0.22	0.13	0.14	0.38	0.60	0.90	10
CV %	7.1	6.7	6.6	5.41	8.6	6.4	6.4
MCV (LSD/Mean)	0.10	0.10	0.09	0.08	0.12	0.09	0.09
LSR (LSD/Range)	0.68	0.32	0.32	0.38	0.67	0.49	0.49

Minnesota
University of Minnesota-Department of Agronomy and Plant Genetics
Lamberton, Redwood County, SWROC
Sown May 6, 2009

Entry (by total yield)	2010 Harvests (tons DM/acre)				2010 Total	1 Year Total	Relative Yield 1 Yr % Checks
	24-May	28-Jun	29-Jul	27-Aug			
<u>Released Varieties</u>							
55V48	2.48	1.64	1.45	1.30	6.86	6.86	118
DKA43-13	2.41	1.66	1.50	1.27	6.83	6.83	118
VELOCITY	2.62	1.49	1.40	1.30	6.80	6.80	117
CHESAPEAKE	2.41	1.57	1.46	1.18	6.62	6.62	114
4S417	2.37	1.58	1.40	1.20	6.54	6.54	113
HYBRIFORCE-2420/Wet	2.39	1.53	1.40	1.16	6.48	6.48	112
6422Q	2.09	1.59	1.54	1.24	6.45	6.45	111
SONIC	2.46	1.53	1.33	1.11	6.43	6.43	111
AMERISTAND 407TQ	2.10	1.53	1.35	1.26	6.24	6.24	108
HYBRIFORCE-2400	2.26	1.45	1.29	1.17	6.17	6.17	106
AMERISTAND 403T PLUS	2.28	1.31	1.27	1.02	5.87	5.87	101
<u>Experimental Varieties</u>							
DS912-M	2.64	1.67	1.51	1.32	7.13	7.13	123
DS913-T	2.49	1.61	1.40	1.18	6.67	6.67	115
DS911-M	2.49	1.53	1.44	1.16	6.62	6.62	114
CW 044026	2.22	1.43	1.41	1.16	6.22	6.22	107
55V12	2.15	1.62	1.29	1.04	6.09	6.09	105
54Q32	2.08	1.42	1.32	1.10	5.91	5.91	102
<u>Checks</u>							
5312	2.09	1.45	1.27	1.09	5.90	5.90	102
ONEIDA VR	2.17	1.43	1.26	1.04	5.90	5.90	102
VERNAL	1.92	1.39	1.20	1.11	5.63	5.63	97
3 Check Mean	2.06	1.42	1.24	1.08	5.81	5.81	100
Mean	2.30	1.52	1.37	1.17	6.37	6.37	110
Range	0.72	0.36	0.34	0.30	1.50	1.50	26
LSD 5%	0.37	0.20	0.23	0.23	0.74	0.74	13
CV %	11.4	9.4	1.8	14.0	8.2	8.2	8.2
MCV (LSD/Mean)	0.16	0.13	0.17	0.20	0.12	0.12	0.12
LSR (LSD/Range)	0.52	0.56	0.67	0.78	0.49	0.49	0.49

Minnesota
University of Minnesota-Department of Agronomy and Plant Genetics
Lamberton, Redwood County, SWROC
Sown May 1, 2007

Entry (by total yield)	2010 Harvests (tons DM/acre)					2009 Total	2008 Total	3 Year Total	Relative Yield 3-Yr % Checks
	24-May	28-Jun	29-Jul	27-Aug	Total				
<u>Released Varieties</u>									
6417	2.54	1.47	1.84	1.42	7.26	5.22	5.72	18.20	113
ENHANCER II	2.55	1.47	1.77	1.36	7.14	4.78	5.55	17.47	109
55V48	2.25	1.30	1.32	1.00	5.87	4.41	5.23	15.51	97
SPRINGGOLD	2.18	1.40	1.46	0.94	5.97	4.41	5.10	15.48	97
6415	2.17	1.25	1.37	1.05	5.83	4.27	5.10	15.20	95
6426	2.21	1.29	1.29	1.07	5.85	4.07	5.05	14.96	93
<u>Experimental Varieties</u>									
DS708-T	2.72	1.54	1.86	1.30	7.41	4.85	5.50	17.77	111
DS704-M	2.32	1.49	1.77	1.33	6.90	4.96	5.57	17.43	109
FG 44M125	2.36	1.42	1.60	1.23	6.61	4.69	5.32	16.62	104
FG 44M318	2.39	1.43	1.71	1.29	6.81	4.54	5.26	16.60	104
DS710-T	2.12	1.29	1.43	1.15	5.98	4.33	5.75	16.06	100
FG 44M317	2.40	1.43	1.50	1.16	6.48	4.45	5.12	16.05	100
<u>Checks</u>									
5312	2.36	1.30	1.45	1.10	6.20	4.43	5.61	16.23	101
ONEIDA VR	2.13	1.26	1.35	1.10	5.83	4.17	4.53	14.54	91
VERNAL	2.28	1.56	1.72	1.29	6.85	4.73	5.77	17.35	108
3 Check Mean	2.26	1.37	1.50	1.16	6.29	4.44	5.30	16.04	100
Mean	2.33	1.39	1.56	1.18	6.47	4.55	5.34	16.36	102
Range	0.60	0.31	0.57	0.48	1.59	1.15	1.24	3.66	23
LSD 5%	0.43	0.30	0.36	0.28	1.11	0.74	0.71	2.16	13
CV %	13.0	15.3	16.0	16.7	12.0	11.4	9.4	9.2	9.2
MCV (LSD/Mean)	0.19	0.22	0.23	0.24	0.17	0.13	0.13	0.13	0.13
LSR (LSD/Range)	0.73	0.97	0.62	0.59	0.70	0.58	0.58	0.59	0.59

Minnesota
University of Minnesota-Department of Agronomy and Plant Genetics
St. Martin, Stearns County Farm
Sown May 11, 2009

Entry (by total yield)	2010 Harvest (tons DM/acre)			1 Year Total	Relative Yield 1 Yr % of Checks
	24-May	1-Jul	19-Aug		
<u>Released Varieties</u>					
DKA43-13	2.91	1.83	2.16	6.89	116
AMERISTAND 407TQ	2.74	1.86	2.24	6.84	115
KINGFISHER 243	2.64	1.96	2.12	6.72	113
6422Q	2.61	1.89	2.18	6.68	112
FSG 329	2.66	1.85	2.15	6.65	112
RENEW	2.57	1.87	2.16	6.61	111
LEGENDAIRY 5.0	2.68	1.69	2.16	6.52	110
CHESAPEAKE	2.66	1.75	2.12	6.52	110
4S417	2.60	1.72	2.09	6.41	108
VELOCITY	2.55	1.79	2.06	6.41	108
55V48	2.37	1.86	2.09	6.32	106
AMERISTAND 403T PLUS	2.43	1.57	1.90	5.90	99
<u>Experimentals</u>					
DS915-BR	2.71	1.73	2.51	6.95	117
CW 044026	2.70	1.91	2.23	6.85	115
VELOCITY, clay	2.70	2.00	1.88	6.58	110
55V12	2.41	1.80	2.22	6.42	108
54Q32	2.61	1.77	2.03	6.41	108
<u>Checks</u>					
5312	2.35	1.55	1.73	5.63	94
ONEIDA VR	2.42	1.60	2.01	6.02	101
VERNAL	2.45	1.68	2.08	6.21	104
3 Check Mean	2.40	1.61	1.94	5.95	100
Mean	2.59	1.78	2.11	6.47	109
Range	0.56	0.45	0.78	1.33	22
LSD 5%	0.25	0.21	0.34	0.59	10
CV %	6.7	8.4	11.4	6.5	6.5
MCV (LSD/Mean)	0.10	0.12	0.16	0.09	0.09
LSR (LSD/Range)	0.44	0.48	0.44	0.45	0.45

Minnesota
University of Minnesota-Department of Agronomy and Plant Genetics
Richmond, Stearns County Farm
Sown May 3, 2007

Entry (by total yield)	2010 Harvests (tons DM/acre)					2009 Total	2008 Total	3 Year Total	Relative Yield 3 1-Yr % Checks
	24-May	24-Jun	21-Jul	19-Aug	Total				
<u>Released Varieties</u>									
6417	2.54	1.48	1.45	1.16	6.63	8.02	7.84	22.48	118
55V48	2.36	1.40	1.41	1.12	6.28	7.59	7.44	21.30	111
6400HT	2.21	1.13	1.45	1.12	5.91	6.87	7.43	20.21	106
AMERISTAND 407TQ	2.37	1.47	1.63	1.33	6.79	7.35	7.51	21.66	113
L333HD	2.30	1.23	1.45	1.18	6.16	7.10	7.74	21.00	110
PHABULOUS III	2.34	1.44	1.51	1.25	6.54	7.70	7.27	21.50	113
PROFUSE BR	2.26	1.39	1.36	1.09	6.09	7.66	7.72	21.47	112
RED FALCON BR	2.14	1.27	1.64	1.28	6.33	7.64	7.52	21.49	112
SPRINGGOLD	2.45	1.48	1.51	1.18	6.62	7.64	7.92	22.17	116
SUMMERGOLD	2.17	1.23	1.58	1.21	6.19	7.37	7.59	21.15	111
WL343HQ	2.37	1.50	1.65	1.26	6.77	7.60	7.58	21.94	115
<u>Experimental Varieties</u>									
DFRC-double	2.39	1.28	1.37	1.16	6.20	7.55	7.54	21.29	111
DFRC-ND	2.47	1.28	1.46	1.26	6.47	7.70	7.74	21.91	115
DFRC-null	2.40	1.28	1.50	1.29	6.46	7.62	7.82	21.90	115
DFRC-single	2.49	1.35	1.53	1.30	6.67	7.35	8.28	22.29	117
DS702-BR	2.44	1.38	1.61	1.23	6.66	7.57	7.95	22.17	116
<u>Checks</u>									
5312	2.20	1.11	1.42	1.13	5.85	6.83	7.18	19.85	104
ONEIDA VR	1.91	1.08	1.42	1.18	5.59	6.34	6.53	18.46	97
VERNAL	2.05	1.10	1.42	1.07	5.63	6.55	6.84	19.02	100
3 Check Mean	2.05	1.09	1.42	1.13	5.69	6.57	6.85	19.11	100
Mean	2.31	1.31	1.49	1.20	6.31	7.37	7.55	21.22	111
Range	0.63	0.41	0.30	0.26	1.20	1.67	1.75	4.02	21
LSD 5%	0.29	0.16	0.26	0.23	0.70	0.52	0.68	1.47	8
CV %	8.8	8.4	12.2	13.6	7.9	5.0	6.4	4.9	4.9
MCV (LSD/Mean)	0.12	0.12	0.17	0.19	0.11	0.07	0.09	0.07	0.07
LSR (LSD/Range)	0.46	0.38	0.87	0.89	0.58	0.31	0.39	0.36	0.36

Minnesota
University of Minnesota-Department of Agronomy and Plant Genetics
Underwood, Otter Tail County Farm
Sown May 15, 2010

Entry (by total yield)	2010 Harvest (tons DM/acre)		Seeding Yr Total	Relative Yield Seeding-Yr % of Checks
	16-Aug			
<u>Released Varieties</u>				
DG 3210	1.45		1.45	104
4S417	1.44		1.44	104
HYBRIFORCE-2400	1.40		1.40	101
FSG329	1.38		1.38	99
55V48	1.34		1.34	97
54Q32	1.34		1.34	97
6305Q	1.34		1.34	96
DG 4210	1.31		1.31	94
DKA43-13	1.31		1.31	94
WL343HQ	1.30		1.30	94
<u>Experimentals</u>				
DSA06-BR	1.51		1.51	109
CW053015	1.48		1.48	106
DSA05-BR	1.45		1.45	105
DSA07-BR	1.40		1.40	101
DSA09-L	1.36		1.36	98
50V50	1.24		1.24	90
<u>Checks</u>				
VERNAL	1.46		1.46	105
ONEIDA VR	1.37		1.37	99
5312	1.34		1.34	96
3 Check Mean	1.39		1.39	100
Mean	1.38		1.38	99
Range	0.27		0.27	19
LSD 5%	0.20		0.20	14
CV %	10.2		10.2	10.2
MCV (LSD/Mean)	0.14		0.14	0.14
LSR (LSD/Range)	0.75		0.75	0.75

Minnesota

University of Minnesota-Department of Agronomy and Plant Genetics

Underwood, Otter Tail County Farm

Sown May 21, 2008

Entry (by total yield)	2010 Harvests (tons DM/acre)				2010 Total	2009 Total	2 Year Total	Relative Yield 2 Yr % of Checks
	9-Jun	7-Jul	5-Aug	28-Sep				
Released Varieties								
PROLIFIC II	2.07	1.67	1.68	1.39	6.80	3.56	10.37	123
MILESTONE II	1.96	1.70	1.71	1.37	6.74	3.39	10.14	121
LIGHTNING IV	1.96	1.78	1.74	1.31	6.78	3.21	9.99	119
WL 363HQ	1.79	1.72	1.78	1.38	6.66	3.15	9.81	117
55V48	1.86	1.61	1.78	1.41	6.66	3.14	9.80	117
VELOCITY	1.83	1.67	1.75	1.34	6.60	3.09	9.68	115
DKA43-13	1.73	1.63	1.69	1.32	6.37	3.24	9.61	114
6431	1.64	1.53	1.74	1.43	6.35	3.17	9.51	113
PGI 459	1.56	1.51	1.70	1.28	6.04	3.15	9.19	109
6417	1.81	1.52	1.65	1.25	6.23	2.82	9.05	108
420 PLUS	1.58	1.60	1.65	1.34	6.17	2.81	8.98	107
WL 343HQ	1.48	1.43	1.56	1.20	5.67	2.67	8.34	99
Experimentals								
CW23017	1.41	1.35	1.62	1.26	5.63	2.61	8.24	98
Checks								
5312	1.52	1.38	1.55	1.23	5.68	2.99	8.67	103
ONEIDA VR	1.62	1.45	1.53	1.19	5.78	2.94	8.73	104
VERNAL	1.36	1.32	1.40	1.10	5.17	2.63	7.79	93
3 Check Mean	1.50	1.38	1.49	1.17	5.54	2.85	8.40	100
Mean	1.70	1.55	1.66	1.30	6.21	3.04	9.24	110
Range	0.72	0.46	0.38	0.34	1.64	0.95	2.57	31
LSD 5%	0.46	0.25	0.15	0.14	0.90	0.56	1.46	17
CV %	19.0	11.3	6.5	7.8	10.2	13.0	11.1	11.1
MCV (LSD/Mean)	0.27	0.16	0.09	0.11	0.14	0.19	0.16	0.16
LSR (LSD/Range)	0.64	0.54	0.41	0.43	0.55	0.59	0.57	0.57

Minnesota**University of Minnesota-Department of Agronomy and Plant Genetics****Grand Rapids, Itasca County, NCROC****Sown 2009**

%Stand	2010 Harvests (tons DM/acre)			1 Year Total	Relative Yield
	14-Jun	3-Aug	6-Oct		0 Yr % Total
Entry (by total yield)					
Released Varieties					
4S417	2.12	1.93	1.07	5.12	102
VELOCITY	2.22	1.78	0.96	4.96	98
CHESAPEAKE	2.07	1.91	0.84	4.81	95
55V48	1.88	1.88	0.92	4.68	93
AMERISTAND 403T PLL	1.70	1.92	0.91	4.52	90
Checks					
5312	2.28	1.98	0.97	5.22	104
ONEIDA VR	2.06	1.85	0.91	4.82	95
VERNAL	1.96	2.12	1.02	5.10	101
3 Check Mean	2.10	1.98	0.97	5.04	100
Mean	2.04	1.92	0.95	4.90	97
Range	0.58	0.34	0.23	0.70	14
LSD 5%	0.31	0.19	0.16	0.41	0.41
CV %	10.4	6.7	11.2	5.7	5.7
MCV (LSD/Mean)	0.15	0.10	0.16	0.08	0.00
LSR (LSD/Range)	0.54	0.57	0.69	0.59	0.03

Minnesota
 University of Minnesota-Department of Agronomy and Plant Genetics
 Grand Rapids, Itasca County, NCROC
 Sown 2007

Entry (by total yield)	2010 Harvests (tons DM/acre)				2009 Total	2008 Total	2-Yr Total	Relative Yield
	14-Jun	3-Aug	4-Oct	Total				2-Yr % of Checks
Released Varieties								
AMERISTAND 407TQ	2.41	1.84	0.96	5.20	5.00	4.54	14.74	99
55V48	2.50	1.80	0.93	5.24	4.74	4.55	14.53	98
6417	2.41	1.81	1.01	5.23	4.62	4.65	14.50	98
Checks								
5312	2.47	1.95	1.03	5.45	5.09	4.79	15.32	103
ONEIDA VR	2.56	1.78	0.96	5.30	4.62	4.68	14.60	98
VERNAL	2.52	1.81	0.99	5.32	4.59	4.76	14.67	99
3 Check Mean	2.52	1.84	0.99	5.35	4.77	4.74	14.86	100
Mean	2.48	1.83	0.98	5.29	4.78	4.66	14.72	99
Range	0.15	0.18	0.09	0.25	0.50	0.26	0.83	6
LSD 5%	0.18/ns	0.24/ns	0.10/ns	0.34/ns	0.31	0.31/ns	0.43	3
CV %	4.9	8.6	6.8	4.2	4.2	4.4	1.9	1.9
MCV (LSD/Mean)	0.07	0.13	0.10	0.06	0.06	0.08	0.03	0.03
LSR (LSD/Range)	1.23	1.34	1.06	1.39	0.62	1.15	0.52	0.52