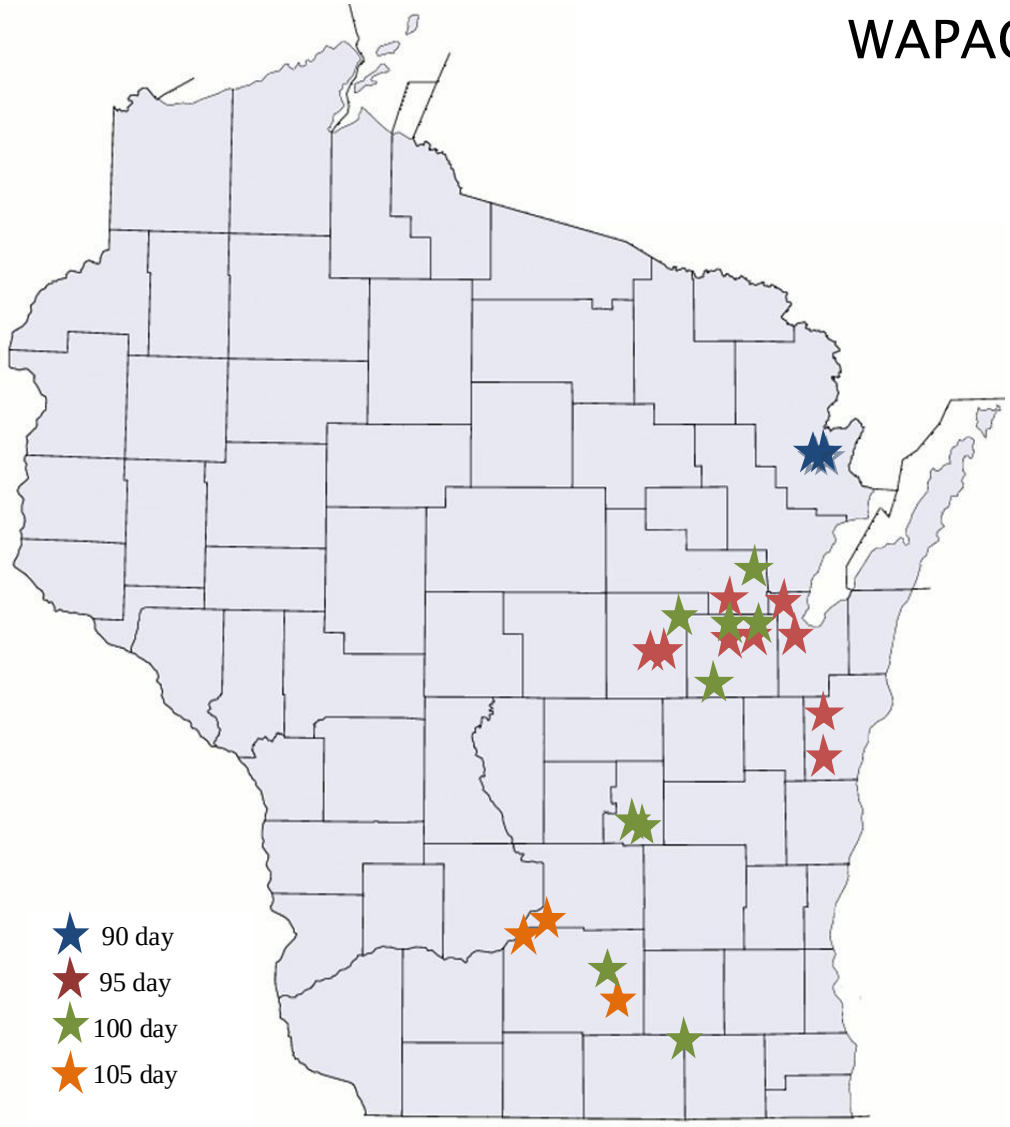
Wisconsin On-Farm Testing

WAPAC Corn Trials

2013



Wisconsin Association of Professional Ag Consultants

University of Wisconsin – Extension

Independent, Replicated, On-Farm Research

2013 WAPAC Corn Performance Trials

2013 Data Analyzed and Compiled by Jon Baldock, PhD (Baldock Statistical Services, Oregon, WI) in cooperation with the Wisconsin Association of Professional Ag Consultants (WAPAC)

Introduction

Before the time of universities, industry research programs or crop consultants, farmers implemented changes in their production practices through a myriad of methods with some success. The process of incremental change and gradual improvements has evolved into an impressive system of research, development and production never imagined just decades ago. This production system, while impressive and productive can attribute much of its success on the recurring question asked by the farmer: "What am I going to do differently next season?"

The answer to the question hopefully results in an improvement of efficiency and profitability that is real and a result of the changes implemented. Our production system is dependent on selecting the inputs and operations that achieve a desired outcome. The process of testing a hypothesis and using the information gained in a cooperative, systematic manner has been highly successful in providing viable options for producing food, feed and fiber on the farm. However, that success has created what can be a bewildering mix of options that leave the farmer and farm advisor struggling with the answer to the question above. As a result, the Wisconsin Association of Professional Agricultural Consultants (WAPAC) and UW-Extension have worked together with farm clients across the state to develop a network for the purpose of conducting applied research trials.

This network consists of crop consultants, local and statewide extension faculty and most importantly farmers cooperating in a coordinated effort across Wisconsin. The objective of this program is to evaluate new technologies and management practices. Trials are conducted across a wide range of environments and management schemes in replicated plots using production scale equipment. This publication summarizes the results of on-farm hybrid trials conducted during 2013.

Identifying the source of variability in yield is a primary objective in any hybrid trial. The use of statistical methods including replication and means comparisons improves the reliability and confidence of results and outcome from the implemented practice. On-farm testing with field scale equipment has traditionally been used for demonstration in non-replicated trials. An overriding strength of on-farm evaluations is the credibility of the results in the eyes of the end user, the farmer by showing how the practice responds within his production system. Often the power of these trials can be enhanced with simple modifications such as replication within locations and across multiple sites with coordinated effort. That coordination is what the membership of WAPAC and UW Extension provide in the execution of the trials. The advent of effective tools for collecting data related to crop production such as weigh wagons, on farm scales and yield monitors have removed many of the traditional barriers of on-farm trials. The increased incidence of having a trained specialist such as a crop consultant on the farm enables the coordination of multi-site evaluations that address production concerns in a real time manner. The evolution of all components of the production process will likely increase the need for more on-farm data collection and analysis as agriculture moves into the future. Collaborative efforts such as this will be necessary to utilize the wealth of information residing in the data collected at the farm.

Methodology of the On-Farm Trials

A recognized strength of field scale on-farm trials is the low coefficient of variability achieved within this type of trial as compared to smaller traditional field research trials. The coefficient of variability (CV) can be looked as a measure of quality of the trial itself. By reducing or addressing the variability of sites or practices within a trial, one can better evaluate the treatment effects of the trait or practice being tested. The use of randomization, replication and thoughtful plot layout help improve the quality of information gleaned from the trial. The WAPAC Hybrid Trials use a minimum of 2 replications for each site and

treatments (hybrids) are randomly placed within each replication. Plots are planted across sources of variability such as soil types or slopes to provide somewhat uniform representation of these sources within each replication. The plots are planted and harvested with field scale equipment. Individual plot sizes for hybrid trials are typically 6 to 12 rows wide and run distances of 500 to over 1000 feet in length. Data and observations are collected throughout the growing season and utilized in the analysis when appropriate. Information identifying plot locations, production inputs, site characteristics along with other supporting information is systematically collected and recorded in a database format to facilitate user queries and data archival.

Using the Results

Coupling the information from this publication with the UWEX Hybrid Corn Performance Trials as well as other hybrid performance trials will give the user the ability to evaluate how a particular hybrid performs in multiple environments. Predicting the performance of a hybrid in the future is done through analysis of past performance. A primary factor in the prediction is the number of locations or replications of a hybrid. This trial typically provides 6 to 12 or more replications of a hybrid at 3 to 6 locations across the state.

The results are reported in Yield per acre and Grower return.

Gross Margin = Gross Income - drying cost - test weight dockage, where
Gross Income is the yield times $4.14/bu, and
Drying cost is 2.0¢/bu wet corn for each point above 15%, and
Test weight dockage is
2¢/lb/bu from 53.9 to 52
3¢/bu from 51.9 to 50
5¢/bu for each lb/bu below 50 lbs/bu,
assuming drying the grain adds 1 lb/bu to the test weight.

The data tables contain the number labeled "LSD" which stands for least significant difference. LSD's at the 10% level of probability are shown. Where the difference between two selected treatments within a column is equal to or greater than the LSD value at the bottom of the column, you can be sure that in nine out of ten chances that there is a real difference between the two treatment averages. If the difference is less than the LSD value, the difference may still be real, but the experiment has produced no evidence of real differences.

Statistics are a tool to help prevent us from deceiving others and ourselves. Growing conditions in any particular year can have large effects on certain practices. Two years of replicated data are a minimum for supporting most practices. On-farm testing is not a quick cure for anything, but it should greatly accelerate innovation and adoption of new practices by providing reliable, quantitative answers that apply directly to a producer's situation. Treatments frequently differ in performance and these differences may vary with management practices, weather patterns, soil conditions, and other environmental and management practices. Replicated trials that take into account field variability are more reliable than non-replicated trials and improve the confidence of implementing of new practices for profitable crop production.

(Written by Bill Stangel and Joe Lauer, WAPAC Executive Council Members, December 2003. Corn price and drying cost updated for 2013

WAPAC Trial Information: 90 day

Location	tri_id		Planting Date		Fall and	Soil test			Fertilizer (lb/a)			Weed
Cooperator	Soil series	Previous	Row width	Harvest Date	Spring Tillage	pH	P	K	N	P	K	Control
Consultant	Soil texture	crop	Population		Cultivation		---ppm---			Micro + Manure		
Crivitz, WI **Dryland**	901	Corn	5/17/2013	11/29/2013	No Till	5.7	29	91	150	60	43	Glyphosate 1 qt
Dudkiewicz Farms	Emmet		30									Warrant 1 qt
Bill Schaumberg	Sandy Loam		30,000									Laudis 3 fl oz
Crivitz, WI **Irrigated**	902	Corn	5/17/2013	11/29/2013	No Till	6.7	35	94	219	96	39	Glyphosate 1 qt
Dudkiewicz Farms	Mancelona		30									Warrant 1 qt
Bill Schaumberg	Sandy Loam		30,000									Laudis 3 fl oz

WAPAC 2013 Corn Trials: 90-day Relative Maturity Data - Means Across Locations.

Brand	Hybrid	Test Weight, lbs/bu†	Grain Moisture, %†	Yield, Bu/A @ 15%†	Gross Margin, $/A†,‡
Steyer	4292 VT2P	51.2 *	20.2 *	173	690 *
Dekalb	DKC38-04RIB	51.5 *	21.0	168	664 *
Dairyland	DS9789SSX	51.6 *	20.0 *	165	659 *
Pioneer	P8954AM	51.7 *	20.5 *	157	623
Number of locations		2	2	2	2
Total number of replications		4	4	4	4
Mean		51.5	20.4	166	659
LSD(10%)		1.4	0.8	8	36

† Means followed by a star are not significantly different than the "best" at the 10% level of significance. The "best" is the maximum value for all measures except lodged and moisture, where the "best" value is the minimum value.

‡ Gross Margin = Gross Income - drying cost - test weight dockage, where
Gross Income is the yield times $4.14/bu,
drying cost is 2¢/bu wet corn for each half-point above 15%, and
test weight dockage is 2¢/lb/bu from 53.9 to 52; 3¢/lb/bu from 51.9 to 50; and 5¢/lb/bu below 50 lb/bu.

WAPAC 2013 Corn Trials: 90-day Relative Maturity Yields by Location.

Four hybrids at two locations.

		Location Yield, bu/a @ 15% moisture	
Brand	Hybrid	901 Crivitz Dryland	902 Crivitz Irrigated
Dairyland	DS9789SSX	172	159
Dekalb	DKC38-04RIB	173	163
Pioneer	P8954AM	159	155
Steyer	4292 VT2P	176	170
Mean		170	162
Reps		2	2

WAPAC Trial Information: 95 day

Location	tri_id		Planting Date		Fall and	Soil test			Fertilizer (lb/a)			Weed
Cooperator	Soil series	Previous	Row width	Harvest Date	Spring Tillage	pH	P	K	N	P	K	Control
Consultant	Soil texture	crop	Population		Cultivation		---ppm---			Micro + Manure		
Bonduel, WI	951	Soybeans	5/19/2013	11/22/2013	Fall Chisel	6.9	17	85				Lumax 2 qt
Hillside Farms	Onaway		30		Field							Roundup 1 qt
Phil Stern	Silt Loam		33,000		Finisher							
De Pere, WI	952	Alfalfa	6/10/2013	11/8/2013	Fall Chisel	6.7	6	76	0	0	0	Lumax 2 qt
Robertson Bros	Kewaunee		30		Spring Field							
Jeff Polenske	Sandy Loam		34,000		Cultivator 2X							
Hortonville, WI	953	Soybeans	5/16/2013	11/26/2013	Fall Chisel	7.6	29	181	152	19	90	Lumax EZ 2.75 qt
Steve Jack	Hortonville		30		Spring Drag					30S		
Paul Knutzen	Silt Loam		35,000									
Manawa, WI	954	Alfalfa	5/25/2013	10/23/2013	Fall Chisel	6.8	26	81	181	16	116	Capreno 3 oz
Fietzer Dairy Farms	Hortonville		30		Cultivator 2x							Parallel 1 1/3 pt
Nathen Nysse	Silt Loam		35,000									Atrazine 3/4#
Pulaski, WI	955	Soybeans	5/22/2013	11/26/2013	Fall V Rip	7.5	32	96	100	30	30	Lumax 1.75 qt
Wilkey Farms			30		Spring Field							
Phil Stern			31,500		Cultivate 2X							
Reedsville, WI	956	Soybeans	5/27/2013	11/13/2013	Spring Field	7	43	96				Roundup P Max 22 oz (2)
Larry Krepline	Kewaunee		30		Cultivator 2X							Callisto 1 oz
Carl Buchner	Loam		33,000									
Seymour, WI	957	Wheat	5/9/2013	11/7/2013	Spring Field	7.5	53	106	131	91	122	Lumax 2.5 qt
Duane Gorges	Shiocton		30		Cultivator							
Bill Schaumberg	Silt Loam		32,500									
Seymour, WI	958	Alfalfa	5/8/2013	11/14/2013	Spring Field	7.8	11	202	145	17	41	Lumax 2.5 qt
Marvin & Ann Marie	Onaway		30		Cultivator							
Karweick	Silt Loam		32,500									
Bill Schaumberg												
St Nazianz, WI	959	Soybeans	5/20/2013	11/4/2013	Fall Chisel Disk	7.9	29	160	185	62	194	Staunch 1.2 pt
Mark Litz	Kewaunee		30		Spring Field					15S		Glyphosate 1 qt
Steve Hoffman	Loam				Cultivator 2X					7127 gal manure		Yukon 2 oz

WAPAC 2013 Corn Trials: 95-day Relative Maturity Data - Means Across Locations.

Brand	Hybrid	Stand, No./A†	Lodged, %†	Test Weight, lbs/bu†	Grain Moisture, %†	Yield, Bu/A @ 15%†	Gross Margin, $/A†,‡
Dekalb	DKC 43-10 RIB	32648 *	0.19 *	53.0	23.2 *	177 *	681 *
Steyer	4295 VT3P	30731	0.06 *	54.2 *	23.7 *	176 *	672 *
Pioneer	P9675AMX	31528 *	0.63 *	54.1 *	24.2 *	173 *	654 *
Dairyland	DS 9494RA	32245 *	0.31 *	53.2	24.5	166	629
Number of locations		9	8	9	9	9	9
Total number of replications		17	15	17	17	17	17
Mean		31807	0.3	53.6	23.9	173	660
LSD(10%)		1372	0.8	0.6	1.1	7	30

† Means followed by a star are not significantly different than the "best" at the 10% level of significance. The "best" is the maximum value for all measures except lodged and moisture, where the "best" value is the minimum value.

‡ Gross Margin = Gross Income - drying cost - test weight dockage, where
Gross Income is the yield times $4.14/bu,
drying cost is 2¢/bu wet corn for each half-point above 15%, and
test weight dockage is 2¢/lb/bu from 53.9 to 52; 3¢/lb/bu from 51.9 to 50; and 5¢/lb/bu below 50 lb/bu.

WAPAC 2013 Corn Trials: 95-day Relative Maturity Yields by Location.

Four hybrids at nine locations.

		Location Yield, bu/a @ 15% moisture				
		951	952	953	954	955
Brand	Hybrid	Bonduel	De Pere	Hortonville	Manawa	Pulaski
Dairyland	DS 9494RA	161	165	187	155	170
Dekalb	DKC 43-10 RIB	157	157	197	191	184
Pioneer	P9675AMX	139	164	201	177	179
Steyer	4295 VT3P	173	155	203	166	184
Mean		157	160	197	172	179
Reps		2	2	2	2	2

Four hybrids at nine locations (continued).

		Location Yield, bu/a @ 15% moisture			
		956	957	958	959
Brand	Hybrid	Reedsville	Seymour	Seymour	St Nazianz
Dairyland	DS 9494RA	104	163	195	198
Dekalb	DKC 43-10 RIB	108	178	221	199
Pioneer	P9675AMX	109	183	202	199
Steyer	4295 VT3P	115	190	210	194
Mean		109	178	207	197
Reps		2	1	2	2

WAPAC Trial Information: 100 day

Location	tri_id		Planting Date		Fall and	Soil test			Fertilizer (lb/a)			Weed
Cooperator	Soil series	Previous	Row width	Harvest Date	Spring Tillage	pH	P	K	N	P	K	Control
Consultant	Soil texture	crop	Population		Cultivation		---ppm---			Micro + Manure		
Appleton, WI	1001	Alfalfa	5/18/2013	10/14/2013	No Till	7.1	19	104	182	55	178	Credit Extra 1 qt (2x)
Dave McCarthy	Hortonville		30									Parallel 1 pt
Jeff Polenske	Silt Loam		34,000									Orical 1 pt
Black Creek, WI	1002	Corn	5/19/2013	10/17/2013	Spring Field	7.6	21	88	124	24	45	Parralel 1.3 pt
Roger & Joan	Hortonville		30		Cultivator 2X							Hornet WDG 3 oz
Seitz	Silt Loam		32,500									Atrazine 1/2 lb
Bill Schaumberg												Glyphosate 1 qt
												Sugar Power 3/4 gal
												Cobalt 4 fl oz
Cecil, WI	1003	Alfalfa	6/11/2013	11/22/2013	Spring Field	7.3	33	72	191	14	5	Durango 32 fl oz
Wagner Farms Inc	Onaway		30		Cultivator							Rage D-Tech 16 fl oz
Bill Schaumberg	Sandy Loam		34,000		Disk				5,000 gal Manure			SureStart 1.5 pt
Clintonville, WI	1004	Alfalfa	5/4/2013	11/20/2013	No Till	7.1	34	102	159	21	35	Lumax 1 3/4 qt
Doug Behnke	Hortonville		30							1.6S		AMS 3 #
Mike Kiddy	Silt Loam		31,000									
Deerfield, WI	1005	Soybeans	5/21/2013	11/14/2013		6.2	33	97	125	66	80	SureStart 1.5 pt
Russ Dahl	Dodge		30							12S		Glyphosate 1 qt (Pre)
Tom Novak	Silt		32,000									2,4-D Ester 1 pt
												Glyphosate 1 qt (June)
Markesan, WI	1006	Soybeans	5/26/2013	11/24/2013	Spring Field	6.9	23	152	138	40	60	
Steve Stellmacher	Kidder		38		Cultivator 2X					8.4S		
Rachel Mueller	Silt Loam		34,100									
Markesan, WI	1007	Peas/	5/9/2013	10/22/2013	Fall Chisel	6.7	13	104	152	24	32	Dual Magnum 2 pt
Russell Zastrow	Plano	Soybeans	36		Digger/Mulcher					8.4S		
Rachel Mueller	Silt Loam		29,500									
Seymour, WI	1008	Alfalfa/	5/16/2013	10/18/2013	Fall Chisel	7.6	59	104	132	113	243	Lumax 2 qt
Pat & Karen	Hortonville	Corn	30		Spring Field							
Van Lanen	Loam		33,000		Cultivator 2X							
Jeff Polenske												
Whitewater, WI	1009	Soybeans	5/17/2013	10/29/2013	No-till	7	25	99	131	69	90	Verdict 15 oz (Pre)
Tom Hoffman	Mahalasville		30							12S	1Zn	Glyphosate 1 qt (Pre)
Tom Novak	Silt		34,000									Status 3 oz (Post)
												Glyphosate 1 qt (Post)

WAPAC 2013 Corn Trials: 100-day Relative Maturity Data - Means Across Locations.

Four hybrids at nine locations.

Brand	Hybrid	Stand, No./A†	Lodged, %†	Test Weight, lbs/bu†	Grain Moisture, %†	Yield, Bu/A @ 15%†	Gross Margin, $/A†,‡
Pioneer	P9917AMX	31708 *	0.5 *	53.9 *	25.6 *	172 *	640 *
Dekalb	DKC49-29	32500 *	0.1 *	53.6 *	26.5 *	169 *	625 *
Mycogen	2Y479	31083 *	0.1 *	50.9	30.2	163	589
Dairyland	DS-9898SSX	31292 *	0.2 *	51.1	30.7	159	573
Number of locations		6	6	9	9	9	9
Total number of replications		10	10	16	16	16	16
Mean		31550	0.3	52.5	28.1	166	608
LSD(10%)		1940	0.7	0.8	1.3	8	31

† Means followed by a star are not significantly different than the "best" at the 10% level of significance. The "best" is the maximum value for all measures except lodged and moisture, where the "best" value is the minimum value.

‡ Gross Margin = Gross Income - drying cost - test weight dockage, where
Gross Income is the yield times $4.14/bu,
drying cost is 2¢/bu wet corn for each half-point above 15%, and
test weight dockage is 2¢/lb/bu from 53.9 to 52; 3¢/lb/bu from 51.9 to 50; and 5¢/lb/bu below 50 lb/bu.

WAPAC 2013 Corn Trials: 100-day Relative Maturity Data - Means Across Locations. (continued)

Five hybrids at five locations.

Brand	Hybrid	Stand, No./A†	Lodged, %†	Test Weight, lbs/bu†	Grain Moisture, %†	Yield, Bu/A @ 15%†	Gross Margin, $/A†,‡
Dekalb	DKC49-29	31875 *	0.1 *	54.3 *	24.9 *	175 *	656 *
Pioneer	P9917AMX	30688 *	0.0 *	54.1 *	25.6 *	172 *	639 *
Mycogen	2Y479	29250	0.1 *	51.5	29.1	168 *	611 *
Dairyland	DS-9898SSX	30438 *	0.3 *	51.7	29.2	163 *	592 *
PIP	5205 3000GT	29281	0.5 *	51.3	33.1	145	505
Number of locations		4	4	5	5	5	5
Total number of replications		7	7	9	9	9	9
Mean		30293	0.2	52.5	28.9	163	592
LSD(10%)		2408	0.5	1.1	3.7	20	40

† Means followed by a star are not significantly different than the "best" at the 10% level of significance. The "best" is the maximum value for all measures except lodged and moisture, where the "best" value is the minimum value.

‡ Gross Margin = Gross Income - drying cost - test weight dockage, where
Gross Income is the yield times $4.14/bu,
drying cost is 2¢/bu wet corn for each half-point above 15%, and
test weight dockage is 2¢/lb/bu from 53.9 to 52; 3¢/lb/bu from 51.9 to 50; and 5¢/lb/bu below 50 lb/bu.

WAPAC 2013 Corn Trials: 100-day Relative Maturity Yields by Location.

Four hybrids at nine locations.

		Location Yield, bu/a @ 15% moisture				
Brand	Hybrid	1001 Appleton	1002 Black Creek	1003 Cecil	1004 Clintonville	1005 Deerfield
Dairyland	DS-9898SSX	143	156	131	162	137
Dekalb	DKC49-29	158	186	148	172	147
Mycogen	2Y479	149	149	128	170	149
Pioneer	P9917AMX	157	167	150	187	157
Mean		152	164	139	173	148
Reps		2	2	1	2	2

Four hybrids at nine locations (continued).

		Location Yield, bu/a @ 15% moisture			
Brand	Hybrid	1006 Markesan	1007 Markesan	1008 Seymour	1009 Whitewater
Dairyland	DS-9898SSX	164	190	175	178
Dekalb	DKC49-29	198	181	162	174
Mycogen	2Y479	183	177	179	179
Pioneer	P9917AMX	206	194	154	177
Mean		188	185	167	177
Reps		1	2	2	2

WAPAC 2013 Corn Trials: 100-day Relative Maturity Yields by Location. (continued)
Five hybrids at five locations.

		Location Yield, bu/a @ 15% moisture				
Brand	Hybrid	1001 Appleton	1002 Black Creek	1006 Markesan	1008 Seymour	1009 Whitewater
Dairyland	DS-9898SSX	143	156	164	175	178
Dekalb	DKC49-29	158	186	198	162	174
Mycogen	2Y479	149	149	183	179	179
Pioneer	P9917AMX	157	167	206	154	177
PIP	5205 3000GT	150	164	133	168	113
Mean		151	164	177	167	164
Reps		2	2	1	2	2

WAPAC Trial Information: 105 day

Location	tri_id		Planting Date		Fall and	Soil test			Fertilizer (lb/a)			Weed
Cooperator	Soil series	Previous	Row width	Harvest Date	Spring Tillage	pH	P	K	N	P	K	Control
Consultant	Soil texture	crop	Population		Cultivation		---ppm---			Micro + Manure		
Cambridge, WI	1051	Alfalfa	5/16/2013	11/19/2013	No-till	7.1	23	155	176	41	30	Touchdown 1qt
Jeff Notstad	Rockton		38						5Mg	17S	.8Zn	Express 3 oz
A. D. Cole	Silt Loam		32,000									2-4,D + AMS 1 pt
												Touchdown 23 oz+ AMS 10 lbs
Lodi, WI	1052	Corn	5/7/2013	11/19/2013	Spring Field	6.7	52	176	168	42	122	Halex GT 3.6 pt
Lockner Dairy	Mt. Carrol		30		Cultivator					30S	1Zn	Nonionic AMS 1 qt
A. D. Cole	Silt Loam		36,000									
Prairie Du Sac, WI	1053	Soybeans	5/19/2013	10/22/2013	No-Till	6.8	30	125	105	0	0	Basis Blend .825 oz
Dairy Forage	Richwood		30						6000 gal manure			Banvel 8 oz
Research Center	Silt Loam		36,000									Round Up 44 fl oz
A. D. Cole												Dual 25 oz

WAPAC 2013 Corn Trials: 105-day Relative Maturity Data - Means Across Locations.

Three hybrids at three locations.

Brand	Hybrid	Stand, No./A†	Lodged, %†	Grain Moisture, %†	Yield, Bu/A @ 15%†	Gross Margin, $/A†,‡
Dairyland	DS-9604SSX	33107 *	5 *	21.2 *	200 *	776 *
Pioneer	P0533AMX	31071	6 *	22.3 *	200 *	768 *
Agrigold	A6408VT3Pro	32774 *	9 *	23.3 *	180	681
Number of locations		3	3	3	3	3
Total number of replications		7	7	7	7	7
Mean		32317	6.4	22.3	193	742
LSD(10%)		972	7.7	2.5	13	46

† Means followed by a star are not significantly different than the "best" at the 10% level of significance. The "best" is the maximum value for all measures except lodged and moisture, where the "best" value is the minimum value.

‡ Gross Margin = Gross Income - drying cost - test weight dockage, where
Gross Income is the yield times $4.14/bu,
drying cost is 2¢/bu wet corn for each half-point above 15%, and
test weight dockage is 2¢/lb/bu from 53.9 to 52; 3¢/lb/bu from 51.9 to 50; and 5¢/lb/bu below 50 lb/bu.

WAPAC 2013 Corn Trials: 105-day Relative Maturity Data - Means Across Locations. (continued)

Four hybrids at two locations.

Brand	Hybrid	Stand, No./A†	Lodged, %†	Grain Moisture, %†	Yield, Bu/A @ 15%†	Gross Margin, $/A†,‡
Pioneer	P0533AMX	30600	6.0 *	23.1 *	186 *	704 *
Dairyland	DS-9604SSX	32150 *	5.0 *	21.7 *	183 *	704 *
PIP	5804-3000GT	28100	8.0 *	23.2 *	175	663
Agrigold	A6408VT3Pro	32250 *	5.0 *	24.4 *	170	634
Number of locations		2	2	2	2	2
Total number of replications		5	5	5	5	5
Mean		30775	6.0	23.1	178	676
LSD(10%)		541	5.9	3.6	9	34

† Means followed by a star are not significantly different than the "best" at the 10% level of significance. The "best" is the maximum value for all measures except lodged and moisture, where the "best" value is the minimum value.

‡ Gross Margin = Gross Income - drying cost - test weight dockage, where
Gross Income is the yield times $4.14/bu,
drying cost is 2¢/bu wet corn for each half-point above 15%, and
test weight dockage is 2¢/lb/bu from 53.9 to 52; 3¢/lb/bu from 51.9 to 50; and 5¢/lb/bu below 50 lb/bu.

WAPAC 2013 Corn Trials: 105-day Relative Maturity Yields by Location.

Three hybrids at three locations.

		Location Yield, bu/a @ 15% moisture		
		1051	1052	1053
Brand	Hybrid	Cambridge	Lodi	Prairie Du Sac
Agrigold	A6408VT3Pro	145	205	186
Dairyland	DS-9604SSX	159	243	199
Pioneer	P0533AMX	166	237	199
Mean		157	228	195
Reps		2	2	3

Four hybrids at two locations.

		Location Yield, bu/a @ 15% moisture	
		1051	1053
Brand	Hybrid	Cambridge	Prairie Du Sac
Agrigold	A6408VT3Pro	145	186
Dairyland	DS-9604SSX	159	199
Pioneer	P0533AMX	166	199
PIP	5804-3000GT	157	187
Mean		157	193
Reps		2	3

Thank you to everyone who contributed to the success of the 2013 WAPAC Corn Trials!

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Agrigold - Dave Welsh
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Links to the WAPAC Corn Trails are available on the WAPAC website: **www.wapac.info** under the Corn Trials tab

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