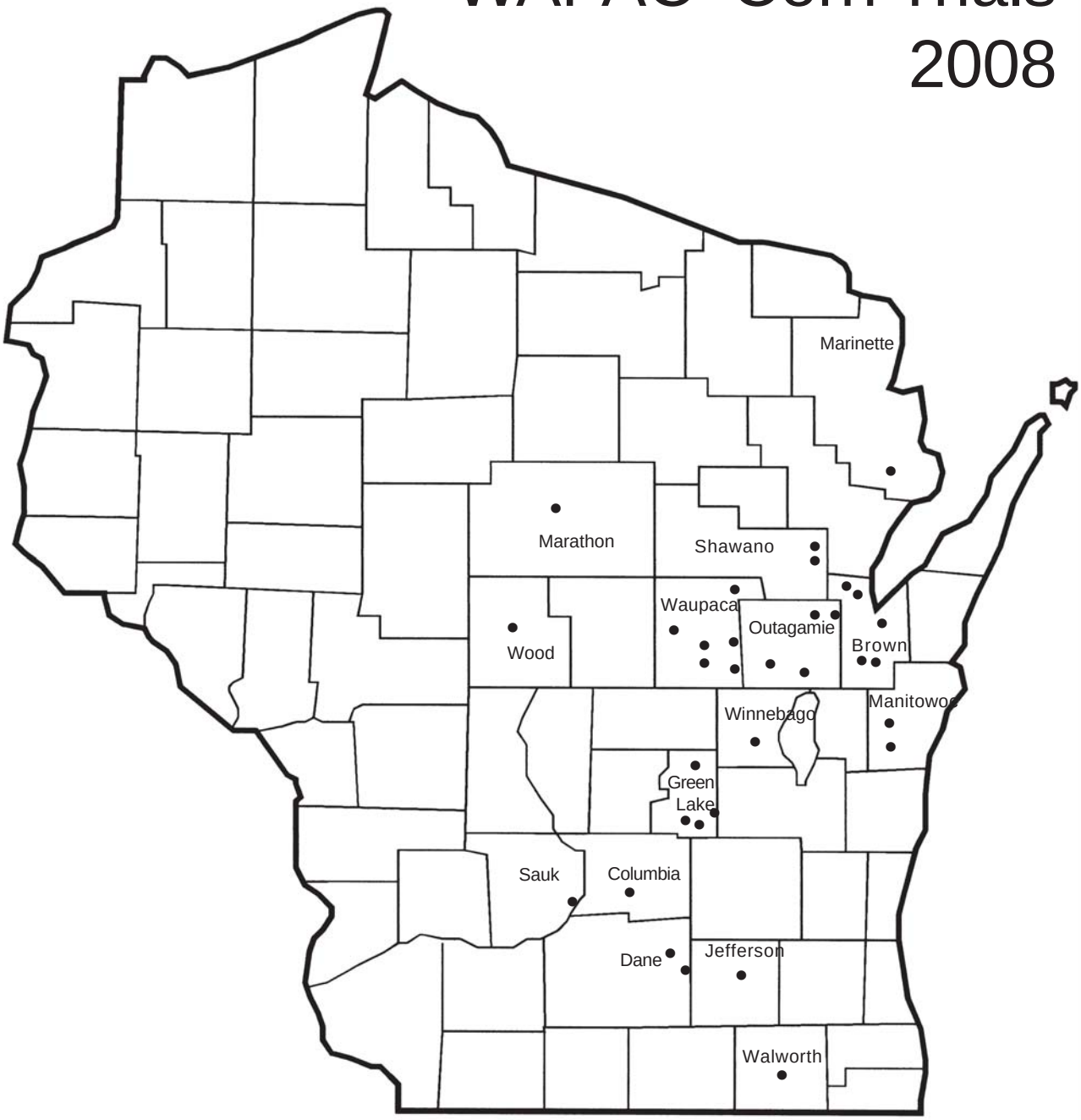
Wisconsin On-Farm Testing
WAPAC Corn Trials
2008



University of Wisconsin - Extension
Wisconsin Association of Professional Ag Consultants
Independent, Replicated, On-Farm Research

2008 WAPAC Corn Performance Trials

2008 Data Analyzed and Compiled by Jon Baldock (AgStat, Verona, 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 2008.

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.

Grower return = (Yield*Price) - [Yield * (Handling+ Hauling+ Storage+ Drying+ Trucking)]

where **Price** = $4.04 = **Weighted Price per Bushel** = 50% November 15 Average Cash price + 25% March CBOT Futures price ($0.15 basis) + 25% July CBOT Futures price ($0.10 basis). November 15 Average Cash price derived from Wisconsin Ag Statistics; CBOT Futures prices derived from closing price on first business day in December.

Handling costs = $0.02 per bushel
Hauling costs = $0.04 per bushel
Storage costs = $0.02 per bushel for 30 days
Drying costs = $0.02 per bushel per point of moisture
Trucking costs = $0.11 per bushel for 100 miles

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.

(Originally written by Bill Stangel and Joe Lauer, WAPAC Executive Council Members, December 2003. Updated for 2008 report by Bill Schaumberg, CCA, WAPAC Research Chair.)

WAPAC Trial Information: 90 day

Location	tri_id		Planting Date		Fall and	Soil test			Fertilizer (lb/a)				Insectcide
Cooperator	Soil series	Previous	Row width	Harvest Date	Spring Tillage	pH	P	K	N	P	K	Weed	+
Consultant	Soil texture	crop	Population	Population	Cultivation	---ppm---			Micro + Manure			Control	Fungicide
Bonduel, WI	901	Corn	5/13/2008	10/7/2008	Fall Mulch till	7	45	98	138	23	30	Halex GT 3.6pt/A	None
Sorenson Grain	Onaway		30		Spring Field							on 13 June	+
Stern Crop Consulting			33,000		Cultivation								None
Droughty													
Cecil, WI	902	Soybean	5/15/2008	10/9/2008	Spring Disk +	7	19	79	76	2	1	Volly ATZ 1.5qt/A	None
Jeff & Connie Horsens	Boyer		30		Field				No Micro or			Hornet WDG 3oz/A	+
Bill Schaumberg	sandy loam		31,000		Cultivator				Manure			on 15 May	None
Clintonville, WI	903	Soybean	5/20/2008	12/6/2008	Fall Inline Rip	6.9	28	92	128	90	254	Keystone LA 1.8qt/A	None
Paul Kirchner	Hortonville		30		Spring Field				No Micro+16,000gal			Hornet WDG 2.5oz/A	+
Mike Kiddy			32,000		Cultivation				(8-4-16)			on 1 June	None
Heavy rain after planting, August drought.													
Coleman, WI	904	Corn	5/19/2008	10/23/2008	Fall Chisel +				128	39	68.8	Lumax	None
Kuchta Farms	Emmet		30		Spring Field				Zinc, No Manure			2.5qt/A on 20 May	+
Scott Reuss	Fine Sandy loam		31,500		Cultvator 2X								None
Marithon, WI	905	Corn	5/19/2008	10/31/2008	Spring Chisel +	7.1	29	183	33.8	11.5	3.8	Keystone LA 3.5pt/A	None
Draeger Dairy Farm	Fenwood		30		Spring Soil				No Micro or			Python 0.7oz/A	+
Paul Sturgis			29,500		Finish				Manure			on 25 May	None
The last 4 hybrids were harvested by mistake the day before.													
Pittsville, WI	906	Soybeans	5/9/2008	11/18/2008	Fall Chisel +	6.3	38	174	106	8	2	Lumax	None
Pete Peterson	Kert		30		Spring Soil				No Micro+4000gal/A			2.5qt/A on 19 May	+
Paul Sturgis			31000		Finish				(10-5-16)				None
Field was very dry with no rain from July 7th through Aug 18th.													
Pulaski, WI	907	Soybean	5/16/2008	10/29/2008	No tillage	7.3	41	92	115	26	61	Lumax 2.25qt/a	None
Lee Herman	Onaway		30						No Micro or			2.5qt/A on 19 May	+
Jeff Polenske	Silt Loam		32,000						Manure				None
Pulaski, WI	908	Corn	5/16/2008	10/31/2008	Fall Chisel +	6.9	35	89	101	16.5	5.4	Lumax 2.0qt/A	None
Ullmer Acres LLC	Casco		30		Spring Field				No Micro or			Roundup 1qt/A	+
Nathen Nysse	Sandy loam		32,000		Cultivator 2X				Manure				None
Corn was stressed from lack of rain during late growing season.													

WAPAC Trial Information: 95 day

Location	tri_id		Planting Date		Fall and	Soil test			Fertilizer (lb/a)				Insectcide
Cooperator	Soil series	Previous	Row width	Harvest Date	Spring Tillage	pH	P	K	N	P	K	Weed	+
Consultant	Soil texture	crop	Population	Population	Cultivation		---ppm---			Micro + Manure		Control	Fungicide
Depere, WI	951	Soybean	5/22/2008	10/29/2008	Fall Chisel +	6.3	19	82	135	58	213	Lumax 2.5qt/A	None
Robertson Bros. Dairy	Symco		30		Spring Field				No Micro+ 13,000gal			on 23 May	+
Jeff Polenske	Silt Loam		32,000		Cultivation 2X				(116-52-198)				None
Green Bay, WI	952	Wheat	5/11/2008	11/1/2008	Fall Chisel +	6.2	45	122	138	23	30	Lumax 2qt/A	None
Jerry Peters	Onaway		30		Spring Field				No Micro + No			on 12 May	+
Stern Crop Consulting			32,000		Cult.,To the max				Manure				None
Some Ponding on plot early in the season, followed by very dry conditions													
Iola, WI	953	Corn	5/1/2008	11/26/2008	No tillage	6	25	110	18	24	40	Status 4oz/A	None
Paul Reierson	Plainfield		30							10S+0.8ZN		Atrazine .5lb/A	+
Paul Knutzen										No Manure		Laudis 3oz/A	None
												on 16 May	
Kiel, WI	954	Soybean	5/9/2008	10/30/2008	Fall Chisel +	7.5	19	176	160	59	178	Acetochlor .75pt/A on	None
Mark Litz	Manawa		30		Spring Field				No Micro+ 5640 gal			on 8 May	+
Steve Hoffman			31,000		Cultivator				(36-10-34)			Steadfast .5oz/A	Stratego
												Callisto 2oz/a	10oz/A
												Atrazine .5lb/A	on 15 Aug
Excessive Rainfall in late may likely caused N loss, 10gal 28% was sidedressed to compensate												on 4 June	
Manawa, WI	955	Corn	5/19/2008	12/8/2008	Fall Chisel +	6.9	30	158	160	148	336	Lumax 2qt/A	None
Dan Boerst	Hortonville		30		Spring Field				No Micro+16,000gal			on 2 June	+
Mike Kiddy			32,500		Cultivation				(10-8-21)				None
Wet May, August Drought													
Manawa, WI	956	Soybean	5/15/2008	10/9/2008	Fall Chisel +	7.2	30	160		0	0	Lumax 2.25qt/A	None
Fietzer Dairy Farms	Hortonville		30		Spring Field				No Micro+9000 gal				+
Nathen Nysse	Silt loam		32,000		Cultivation 2X				Manure				None
Dry weather during summer													
New London, WI	957	Soybean	5/9/2008	11/20/2008	Spring Rotary	6.8	73	139	172	16.5	45	Keystone LA 1.5qt/A	None
Ryan Martin	Hortonville		30		Hoe					6S + .9ZN		on 15 May	+
Paul Knutzen			34,000							No Manure		Hornet WDG 2oz/A	None
												Roundup 1qt/A	
Golden Harvest Variety Killed with Roundup on Accident												on 25 May	

WAPAC Trial Information: 95 day cont:

Location	tri_id		Planting Date		Fall and	Soil test			Fertilizer (lb/a)				Insectcide
Cooperator	Soil series	Previous	Row width	Harvest Date	Spring Tillage	pH	P	K	N	P	K	Weed	+
Consultant	Soil texture	crop	Population	Population	Cultivation	---ppm---			Micro + Manure			Control	Fungicide
Reedsville, WI	958	Soybean	5/6/2008	11/5/2008	Fall Chisel +	6.7	16	81				Harness 1.3pt/A Pre	None
Larry Krepline	Kewaunee		30		Spring Field				No Micro +			Stratus 4oz/A Post	+
Carl Buchner	Loam		32,000		Cultivation 2X				16,600gal Manure			Aatrex 4L 1pt/A Post	None
Seymour, WI	959	Soybean	5/20/2008	10/15/2008	Fall Chisel +	7.4	22	60	138	66	150	Confidence Extra	None
Oneida Nation Farms	Solona		30		Spring Field				No Micro + No			Hornet WDG	+
Bill Schaumberg	Silt loam		32,500		Cultivator +				Manure			2.2qt/A + 3oz/A	None
					To the Max							on 21 May	
Seymour, WI	9510	Corn	5/11/2008	10/22/2008	Fall Chisel +	7.8	44	146	138	23	30	Steadfast 0.75oz/A	None
Dave Wichman	Onaway		30		Spring Field				No Micro + No			Hornet WDG 2oz/A	+
Stern Crop Consulting			31,500		Cultivator 2X				Manure			on 25 May	None

WAPAC Trial Information: 100 day

Location	tri_id		Planting Date		Fall and	oil test			Fertilizer (lb/a)				Insectcide
Cooperator	Soil series	Previous	Row width	Harvest Date	Spring Tillage	pH	P	K	N	P	K	Weed	+
Consultant	Soil texture	crop	Population	Population	Cultivation	-ppm---			Micro + Manure			Control	Fungicide
Appleton, WI	1001	Alfalfa	5/1/2008	10/14/2008	No Tillage	7.4	9	53	165	29	54	Credit Extra 2qt/A	None
Dave McCarthy	Hortonville		30						No Micro + No			Fall 2007	+
Jeff Polenske			34,000						Manure			Credit Extra 1qt/A	None
												Parallel 1pt/A	
												on 3 May	
												Orical 1pt/A on 10 May	
Clintonville, WI	1002	Soybean	5/14/2008	11/21/2008	No Tillage	7.5	61	220	113	90	216	Volley ATZ 1.75qt/A	None
Doug Behnke	Symco		30						1.2S + 9,000gal			Hornet WDG 2.75oz/A	+
Mike Kiddy			32,000						(10-8-21)			on 24 May	None
May Rainy, August Droughty													
Deerfield, WI	1003	Corn	5/10/2008	11/4/2008	Spring Disk +	6.2	25	77	138	21	21	Harness 2pt/A Pre	Force 3G
Russ Dahl	Marshan		30		Spring Field				No Micro + No			Glyphosate 1qt/A	4.4lb/A
Tom Novak	Silt loam		32,000		Cultivation				Manure			Status 3oz/A Post	None
Depere, WI	1004	Corn	5/18/2008	10/29/2008	Fall Chisel	6.4	14	5	126	49	5.5	Lumax 2.25qt/A	Lorsban
New Horizons Dariy	Manawa		30		Spring Field				No Micro + No				7.6#
Nathen Nysse	Silt loam				Cultivation 2X				Manure				On non-RW
Fremont, WI	1005	Soybean	5/8/2008	11/25/2008	Spring Till-All	6.1	47	92	176	13	45	Sure Start 1.75qt/A	None
Larry Danke	Hortonville		30						6S + No Manure			Atrazine 4-L 1pt/A	+
Paul Knutzen												Clear Out 1qt/A	None
												on 20 May	
Ft. Atkinson, WI	1006	Corn	5/17/2008	11/22/2008	Fall Chisel +	7.2	33	81	156	20	20	Lumax 3qt/A	Force 3G
Gess Farms	Del Rey		30		Spring Field				No Micro + No			Pre	4.4lb/A
Tom Novak			32,000		Cultivator 2X				Manure				On non-RW
Markesan, WI	1007	Corn	5/18/2008	11/26/2008	Fall Chisel +				161	18	81	Harness 2pt/A Pre	None
Steve Stellmacher	Kidder		38		Spring Disk 2X				9S+.7ZN + No			Hornet WDG 3.5oz/A	+
Cornerstone Crop Cons.			29,500						Manure			Atrazine 9-0 1/2lb/A	None
												on 30 May	
Markesan, WI	1008	Corn	4/24/2008	10/31/2008	Fall Chisel +	6.4			150	18	45	Dual II Mag 2pt/A Pre	None
Russ Zastrow	Plano		36		Spring Disk 2X				8S + .7ZN + No			Accent Gold 3.5oz/A	+
Cornerstone Crop Cons.			31,800						Manure			At V7	None

WAPAC Trial Information: 100 day cont:

Location	tri_id		Planting Date		Fall and	oil test		Fertilizer (lb/a)					Insectcide
Cooperator	Soil series	Previous	Row width	Harvest Date	Spring Tillage	pH	P	K	N	P	K	Weed	+
Consultant	Soil texture	crop	Population	Population	Cultivation		---ppm---			Micro + Manure		Control	Fungicide
Omro, WI	1009	W. Wheat	5/20/2008	11/29/2008	Fall Field	6.3	34	123	164	5	60	Lumax 2qt/A	None
Larry Paltzer	Manawa		30		Cultivation				60S + No Manure			Glyphosate 1qt/A	+
Larry Paltzer	Silty Clay Loam		34,000		No-Till Planted							on 24 May	None

WAPAC Trial Information: 105 day

Location	tri_id		Planting Date		Fall and	oil test		Fertilizer (lb/a)					
Cooperator	Soil series	Previous	Row width	Harvest Date	Spring Tillage	pH	P	K	N	P	K	Weed	Insectcide +
Consultant	Soil texture	crop	Population	Population	Cultivation	-ppm---			Micro + Manure			Control	Fungicide
Berlin, WI	1051	Corn	4/24/2008	10/14/2008	No tillage				155	23	60	Volley ATZ 1qt/A	None
Hargrave Farms	Kidder		30						18S + 1ZN + No			Roundup 1qt/A	+
Cornerstone Crop Cons.			29,800						Manure			Callisto 3oz/A	None
												at V4	
Some Ponding early in spring													
Cambridge, WI	1052	Alfalfa	5/9/2008	11/18/2008	No tillage	6.4	31	144	169	12	91	Rup Wmax 48oz/A	None
Jeff Notstad	Rockton		30						ZN 1lb/A+ No			Express 0.25oz/A	+
A.D. Cole	Silt		34,500						Manure			2-4,D 1pt/A	None
												on 10 Oct 2007	
												Harness 7EC 2.7pt/A	
												Princep 90 1lb/A	
All plots ran short of Nitrogen, Rep 2 had to events of being water logged												on 10 May	
Elkhorn, WI	1053	Corn	5/9/2008	11/3/2008	Fall Chisel +	7.2	40	120	138	68	140	Harness 2pt/A Pre	Force 3G
Lauderdale Farms, Inc	Warsaw		30		Spring Soil				No Micro + No			Status 5oz/A Post	4.4lb/A
Tom Novak	Silt		32,000		Finisher				Manure				On non-RW
Heavy rains in early June, then no rain for 6-7 weeks													
Lodi, WI	1054	Corn	5/6/2008	11/1/2008	Fall Deep till	6.7	47	156	177	70	174	Dual ll Mag 2.5pt/A	Aztec 2.1G
Lockner Dairy LLC	Mt. Carrol		30		Spring Disc+				ZN + 5000 gal			Hornet WDG 4oz/A	7.3lb/A
A.D. Cole	Silt loam		36,500		Field Cult				Manure (40-40-105)			on 18 May	
												Status 4oz/A	
Plots shown N deficency												on 5 June	
Markesan, WI	1055	Corn	5/9/2008	11/26/2008	Spring Disc+							Cornerstone 1qt/A	None
Richard Huitema	Plano		30		Field Cult							Laudis 3oz/A	+
Cornerstone Crop Cons.			30,000									at V7	None
Prairie Du Sac, WI	1056	Soybean	5/14/2008	11/5/2008	No tillage	6.5	50	175	145	20	20	Camix 2qt/A	None
USDA-DFRC	Richwood		30						ZN + 12,000gal			Princep 90 1lb/A	+
A.D. Cole	Silt loam		36,500									on 22 May	None
												Status 4oz/A	
Short of N, water logged												on 10 June	

WAPAC Corn Hybrid Trial results (90 day RM)

Entry	Plant Stand	Lodging	Test Weight	Grain Moisture	Grain Yield	Grower Return	Bond-uel 901	Cecil 902	Clint-onville 903	Col-eman 904	Mari-thon 905	Pittsville 906	Pula-ski 907	Pula-ski 908
	no./A	%	lb/bu	%	bu/A	$/A	bu/A	bu/A	bu/A	bu/A	bu/A	bu/A	bu/A	bu/A
Croplan 3114RB	28,424	7	53	21	135.2	$505.51	100.5	104.4	163.3	151.5	--	140.4	158.1	128.0
Dairyland St9789	28,451	4	53.4	22.4	134.9	$500.67	111.3	109.9	152.6	158.7	121.1	138.4	162.0	124.9
LG2411VT3	28,493	4	53.5	22.4	133.1	$494.16	105.5	110.8	142.0	151.7	137.6	133.6	158.6	125.2
Trelay 3T544	28,764	2	52.8	21.8	128.2	$477.38	99.0	103.5	136.5	151.6	--	132.9	150.5	123.5
Mycogen 2D326	29958	5	53.1	23.1	128.0	$473.20	103.8	90.9	141.2	153.1	128.3	126.2	154.0	126.3
Jungs 7344VT3	29,014	1	52.3	23.8	126.3	$465.32	109.0	94.5	143.1	147.2	128.1	120.0	155.2	113.3
DKC 42-91	28,604	3	53	22.8	125.9	$466.27	107.3	98.2	144.7	145.8	119.1	128.6	144.3	122.1
Kalt. K3913VT3	28,368	4	53	22.6	125.0	$463.61	105.6	91.0	151.9	150.7	127.5	115.8	148.3	113.0
PIP3787CBLL	28,167	1	52.3	21.7	124.2	$462.68	90.1	99.0	154.4	141.3	125.9	126.7	139.4	79.4
Dairyland St7191	29,076	5	52.3	22.6	124.1	$460.07	101.4	88.1	142.4	133.6	133.3	126.0	150.5	117.3
RK438RRYGPL	28,756	5	53.2	21.7	123.4	$459.60	101.6	90.9	135.3	143.2	--	130.5	148.2	113.8
Mean	28734	3.7	52.9	22.4	128.0	$475.32	103.2	98.3	146.1	148.0	127.6	129.0	151.7	117.0
LSD(0.10)					5.01									

Grower return= (Yield*Price)-[Yield* (Handling + Hauling + Storage + Drying + Trucking)]

where Price = $4.04 = Weighted Price per Bushel = 50% November 15 Average Cash price + 25% March CBOT Futures price ($0.15 bases) + 25% July CBOT Futures price ($0.10 basis). November 15 Average Cash price derived from Wisconsin Ag Statistics; CBOT Futures prices derived from closing price on first busineess day in December
Handling = $0.02 per bushel
Hauling = $0.04 per bushel
Storage = $0.02 per bushel for 30 days
Drying = $0.02 per bushel per point of moisture above 15.5%
Trucking = $0.11 per bushel for 100 miles

WAPAC Corn Hybrid Trial results (95 day RM)

Entry	Plant Stand	Lodging	Test Weight	Grain Moisture	Grain Yield	Grower Return	Dep-ere 951	Green Bay 952	Iola 953	Kiel 954	Man-awa 955	Man-awa 956	New L-ondon 957	Reed-sville 958	Sey-mour 959	Sey-mour 9510
	no./A	%	lb/bu	%	bu/A	$/A	bu/A	bu/A	bu/A	bu/A	bu/A	bu/A	bu/A	bu/A	bu/A	bu/A
Trelay 4T722	31,764	0.1	52.7	22	165.0	$613.80	174.1	142.3	143	210.4	183.8	169.2	178.3	133.2	157.3	158.8
Jungs 7426VT3	31,565	0.3	51.3	22.4	164.0	$608.77	157.8	134.2	152.9	208.2	187.5	172.2	186.4	128.1	152.3	162.4
Dekalb DKC 46-60	31,801	0.8	53.7	20.4	163.0	$611.58	173.7	133.1	148.9	188.8	179.1	180.9	190.9	111.9	156.4	168.9
Croplan 3724VT3	32,083	0.8	52.7	22.5	162.0	$601.02	161.6	142.5	156.8	197.3	182.4	175.7	178.6	126.9	157.6	137.7
H-7151CBLLRW	28,278	0.4	51.5	22.8	161.0	$596.34	162.8	128.8	143.4	187.0	183.6	169.1	--	94.9	165.1	161.8
PIP-LR9594VT3	31,884	0.5	52.5	20.8	160.0	$599.04	160.7	140.1	143.9	196.2	184.9	167.9	170.6	137.4	152.9	147.7
Renk RK570VT3	31,500	0.6	52	21.3	159.0	$593.71	155.6	144.6	144.3	189.2	181.9	168.8	174.5	141.4	143.3	150.5
Mycogen 2R428	31,847	0.3	53.4	21.8	158.0	$588.39	155.8	136.3	133.3	195.7	162.8	170.3	185.9	125.2	154.3	160.5
Kalt. K3843RR+	31,542	0.2	52.4	21.2	157.0	$586.55	163.9	134.1	127.9	204.2	165.6	167.3	183.9	136.3	137.1	153.1
Dairyland St9196	31,824	0.9	53.9	20.5	157.0	$588.75	152.6	131.2	154.6	188.8	183.7	159.1	166.5	135.2	143.7	155.7
Kalt. K4663VT3	31,315	0.4	55	21	152.0	$568.48	141.2	133.8	138.8	193.0	169.3	160.6	182.7	110.4	149.9	142.7
Mean	31400	0.5	52.8	21.5	159.8	$596.04	160	136.5	144.3	196	178.6	169.19	179.8	125.5	151.8	154.5
LSD(0.10)					5.81	$24.00										

Grower return= (Yield*Price)-[Yield* (Handling + Hauling + Storage + Drying + Trucking)]

where Price = $4.04 = Weighted Price per Bushel = 50% November 15 Average Cash price + 25% March CBOT Futures price ($0.15 bases) + 25% July CBOT Futures price ($0.10 basis). November 15 Average Cash price derived from Wisconsin Ag Statistics; CBOT Futures prices derived from closing price on first busineess day in December
Handling = $0.02 per bushel
Hauling = $0.04 per bushel
Storage = $0.02 per bushel for 30 days
Drying = $0.02 per bushel per point of moisture above 15.5%
Trucking = $0.11 per bushel for 100 miles

WAPAC Corn Hybrid Trial results (100 day RM)

Entry	Plant Stand	Lodging	Test Weight	Grain Moisture	Grain Yield	Grower Return	Apple-ton 1001	Clint-onville 1002	Deer-field 1003	Dep-ere 1004	Frem-ont 1005	Ft. Atk-inson 1006	Mark-esan 1007	Mark-easan 1008	Omro 1009
	no./A	%	lb/bu	%	bu/A	$/A	bu/A	bu/A	bu/A	bu/A	bu/A	bu/A	bu/A	bu/A	bu/A
Trelay 5N749	29,385	0.5	54.1	22.4	165.0	$612.48	241.4	200.2	111.4	106.2	184.5	119.2	153.7	200.9	144.7
Dekalb DKC 52-43	31,115	0.3	53	19.8	164.0	$617.30	217.3	204.0	117.8	102.0	165.9	146.3	185.7	197.9	135.2
Mycogen 2P483	31,500	0.4	53.2	19.1	164.0	$619.59	216.6	197.8	119.7	133.8	166.1	148.1	157.5	189.8	137.8
Jungs 7454VT3	31,135	0.2	53.4	20.4	162.0	$607.82	217.8	197.8	115.3	109.6	170.4	140.2	155.6	202.4	135.2
AG A6279VT3	30,750	0.3	53.6	22.8	162.0	$600.05	222.3	202.4	130.4	105.6	178.4	131.2	146.6	198.0	139.0
Pioneer 37Y14	30,077	0.3	54.2	20.6	157.0	$588.44	223.3	189.5	106.6	121.6	164.3	131.1	144.4	197.1	134.8
H-7544CBLLRW	30,038	0.6	50.8	23.4	157.0	$579.64	185.5	190.9	132.7	107.5	159.4	127.7	172.7	201.2	123.4
Croplan 388TS	32,173	0.2	52.7	20.3	156.0	$585.62	217.0	200.2	121.6	104.2	149.8	141.0	141.3	194.0	116.1
PIP-LR9798VT3	31,385	0.4	54.9	20	156.0	$586.56	211.0	182.9	124.2	110.0	173.3	133.1	150.0	187.7	110.6
Kalt. K4263VT3	31,000	0.4	56	19.4	153.0	$577.12	208.8	185.1	127.3	114.0	159.3	128.4	166.7	181.2	109.2
Renk RK618VT3	30,588	0.3	54.6	20.1	153.0	$574.97	214.0	187.2	124.7	119.0	141.1	126.7	154.6	187.9	125.5
Dairyland St9799	31,115	0.3	52.9	19.7	152.0	$572.43	214.2	200.1	115.4	105.2	117.3	123.8	154.3	190.2	143.3
Croplan 421RB	31,442	0.2	53.5	20	149.0	$560.24	223.0	202.4	93.0	92.1	132.6	111.3	150.3	185.2	143.1
Mean	30900	0.3	53.6	20.6	157.7	$590.94	216.3	195.4	118.5	110.1	158.6	131.4	156.4	193.3	130.6
LSD(0.10)					8.44	$36.29									

Grower return= (Yield*Price)-[Yield* (Handling + Hauling + Storage + Drying + Trucking)]

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Handling = $0.02 per bushel
Hauling = $0.04 per bushel
Storage = $0.02 per bushel for 30 days
Drying = $0.02 per bushel per point of moisture above 15.5%
Trucking = $0.11 per bushel for 100 miles

WAPAC Corn Hybrid Trial results (105 day RM)

Entry	Plant Stand	Lodging	Test Weight	Grain Moisture	Grain Yield	Grower Return	Ber-lin 1051	Cam-bridge 1052	Elk-horn 1053	Lodi 1054	Mark-esan 1055	Prairie-Du Sac 1056
	no./A	%	lb/bu	%	bu/A	$/A	bu/A	bu/A	bu/A	bu/A	bu/A	bu/A
Croplan 5338VT3	30,660	10.5	54.2	20.9	183	$684.79	182.8	179.3	131.3	210.3	224.0	170.1
Jungs 7514VT3	30,296	6.3	53.0	21.2	182	$679.95	187.8	184.1	140.3	192.6	221.0	165.8
DeKalb DKC 57-79	31,193	7.7	53.7	21.2	180	$672.48	180.3	170.5	118.3	226.7	218.0	164.2
AG A6325VT3	30,883	7.7	53.1	21.8	179	$666.60	175.9	173.9	131.3	213.6	219.0	163.2
DeKalb DKC 52-59	32,117	5.5	53.3	19.7	178	$670.35	173.4	162.1	120.7	210.1	236.4	167.1
Dairyland St9006	31,189	7.7	53.4	21.9	177	$658.79	170.4	175.2	132.0	199.4	224.7	157.5
Trelay 6T510	30,414	5.0	52.9	22.4	176	$653.31	175.4	164.7	124.5	233.5	222.4	156.9
Pioneer 35A34	30,383	4.5	56.9	21.3	173	$645.98	167.6	169.9	129.1	201.0	219.8	150.2
RK770RRYGCB	30,202	5.1	52.5	26.0	169	$615.16	174.8	157.0	126.3	183.0	215.9	155.5
PIP-LR9703VT3	31,178	14.5	54.7	20.6	168	$629.66	--	163.4	114.6	182.2	224.6	156.6
Kalt. K5823VT3	31,162	8.2	54.9	21.5	168	$626.64	166.3	170.5	125.4	182.0	205.0	158.5
Mycogen 2P535	30,417	6.8	55.0	20.3	159	$596.89	171.4	149.6	116.6	188.6	180.8	144.9
Mean	30841	7.5	54.0	21.6	174.3	$650.05	175.1	168.4	125.9	201.9	217.6	159.2
LSD(0.10)					8.31	$32.89						

Grower return= (Yield*Price)-[Yield* (Handling + Hauling + Storage + Drying + Trucking)]

where Price = $4.04 = Weighted Price per Bushel = 50% November 15 Average Cash price + 25% March CBOT Futures price ($0.15 bases) + 25% July CBOT Futures price ($0.10 basis). November 15 Average Cash price derived from Wisconsin Ag Statistics; CBOT Futures prices derived from closing price on first busineess day in December
Handling = $0.02 per bushel
Hauling = $0.04 per bushel
Storage = $0.02 per bushel for 30 days
Drying = $0.02 per bushel per point of moisture above 15.5%
Trucking = $0.11 per bushel for 100 miles

Thank you to everyone who contributed to the success of the 2008 WAPAC Corn Trials!

Data Analysis

Dr. Jon Baldock, Research Director, AgStat, Verona, Wisconsin

Seed Company Sponsors

Agrigold – Dave Welsh
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Renk – Jeff Renk
Trelay-Kevin Schmitz

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• Carl Buchner – Buchner Agronomy Consulting, Whitelaw, WI
1.) 95-day: Larry Krepline, Reedsville, WI

• A.D. Cole – ITAC of Wisconsin, Prairie du Sac, WI
1.) 105-day: Jeff Notstad, Cambridge, WI
2.) 105-day: Lockner Dairy, Lodi, WI
3.) 105-day: USDA-DFRC, Prairie du Sac, WI

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1.) 95-day: Dan Boerst, Manawa, WI
2.) 100-day: Doug Behnke, Clintonville, WI

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2.) 100-day: Russ Zastrow, Markesan, WI
3.) 105-day: Hargrave Farms, Berlin, WI
4.) 105-day: Richard Huitema, Markesan, WI

On-Farm Trial Coordinators and Participating Growers, continued

• Tom Novak – Total Crop Management, Sullivan, WI
1.) 100-day: Russ Dahl, Deerfield, WI
2.) 100-day: Gess Farms, Ft. Atkinson, WI
3.) 105-day: Lauderdale Farms, Elkhorn, WI

• Nathen Nysse – Polenske Agronomic Consulting, Appleton, WI
1.) 90-day: Ullmer Acres, LLC, Pulaski, WI
2.) 95-day: Fietzer Dairy Farms, Manawa, WI
2.) 100-day: New Horizons Dairy, De Pere, WI

• Larry Paltzer – Paltzer Agronomy Service, Omro, WI
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• Jeff Polenske – Polenske Agronomic Consulting, Appleton, WI
1.) 90-day: Lee Herman, Pulaski, WI
2.) 95-day: Robertson Brothers Dairy, De Pere, WI
3.) 100-day: Dave McCarthy, Appleton, WI

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• Bill Schaumberg – Polenske Agronomic Consulting, Appleton, WI
1.) 90-day: Jeff & Connie Horsens, Cecil, WI
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2.) 95-day: Jerry Peters, Green Bay, WI
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Links to the WAPAC Corn Trails are available on the WAPAC website: **www.wapac.info** under the Corn Trials tab, and also on the University of Wisconsin Extension Corn Agronomy website: **http://corn.agronomy.wisc.edu** under the Hybrid Trials tab.