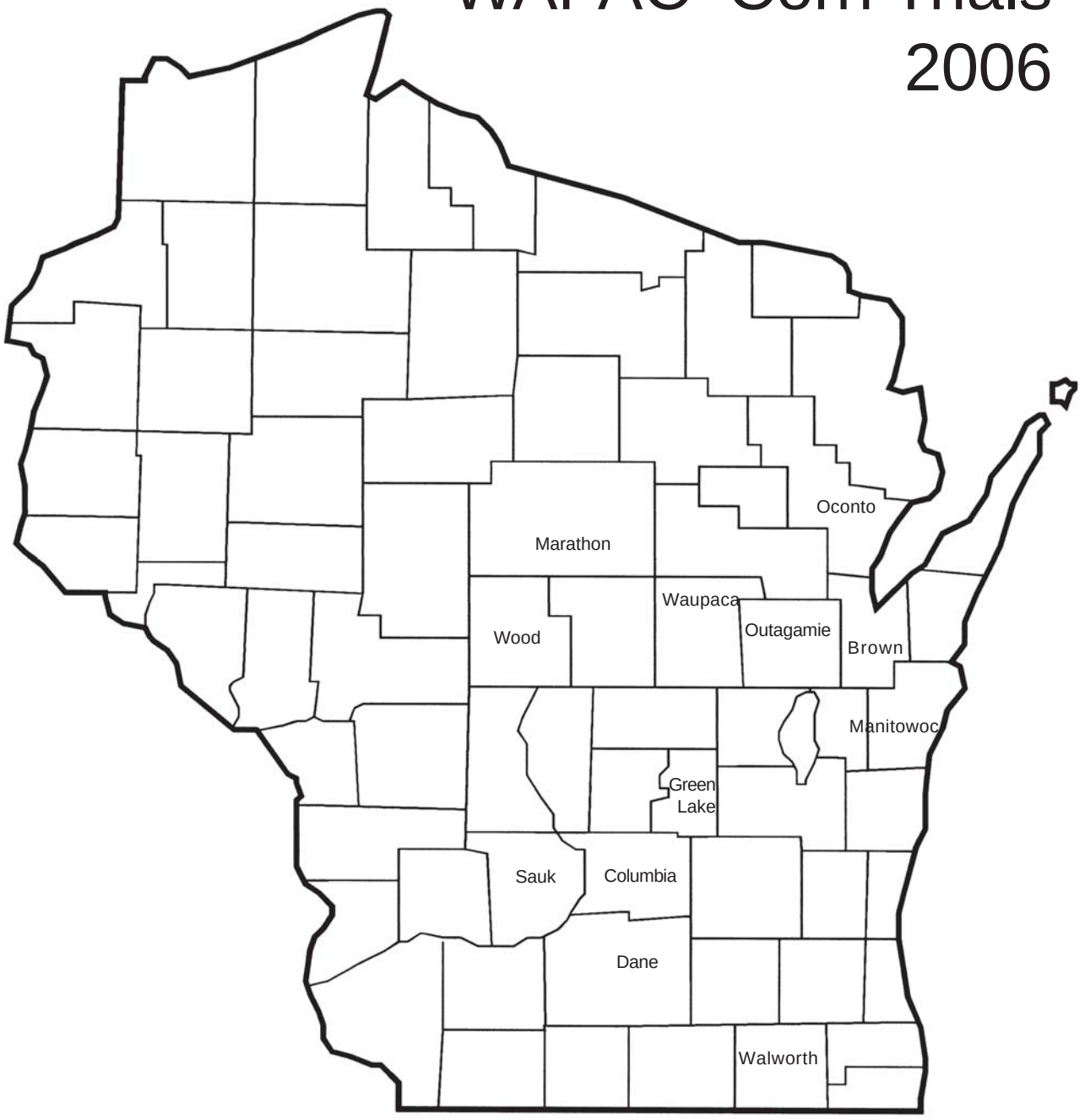
Wisconsin On-Farm Testing
WAPAC Corn Trials
2006



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

2006 WAPAC Corn Performance Trials

Analyzed and Compiled by Joe Lauer (University of Wisconsin) 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 2006.

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** = $3.29 = **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.

Bill Stangel and Joe Lauer, WAPAC Board of Directors (written December 2003)

WAPAC Trial Information: 90 day

Location Cooperator Consultant	tri_id Soil series Soil texture	Previous crop	Planting Date Row width Population	Harvest Date Population	Fall and SpringTillage Cultivation (times)	Soil test pH P K --- ppm ---	Fertilizer (lb/a) N P K manure (T/A)	Weed control	Insecticide Fungicide
Gillett	2003	Alfalfa	4/28/06			7.1 40 90	130 85 232	Volley Atz Lite @ 1.5 qt/A + Hornet WDG @ 3 oz/A on	
Horsens Homestead, Jeff & Connie Horsens	Ornaway		30		Spring Disk		Manure 9000 gal/A (116-62-187)		
Bill Schaumberg, Polenske Agronomic Consulting			29900				9 S		
Marathon	1998	Corn	5/8/06		Fall Chisel plow	6.7 17 84	92 5.5 5.5	Lumax @ 2.5 qt/A on 10May06	
Draeger Dairy Farm, Inc.	Fenwood		30		Soil finisher				
Paul Sturgis, Croptech Agronomics, LLC			27500						
No rainfall during July and early August									
Peshtigo	1142	Corn	5/9/06	12/12/06	Chisel plow		130 84 83	LuMax @ 2.5 qt/A on 5/10	
Tom Kuchta	Emmet		30		Field Cultivator (2x)				
Scott Reuss			24500						
Pittsville	2001	Soybean	5/15/06			6.7 21 75	120 14 3.5	Dual II Magnum @ 1.6 pt/A + Marksman @ 3.5 pt/A on 18May06	
Pete Peterson	Kert		30		Spring disk + Field cultivator				
Paul Sturgis, Croptech Agronomics, LLC			29000						
Spruce	2709	Corn	5/19/06	10/24/06			150 15 10	Lumax @ 3 qy/A + Atrazine @ 0.25 lb/A on 5/22/06	
Pagel Dairy Farms, Inc.	Onaway		30						
Scott Reuss			33200						

WAPAC Corn Hybrid Trial Results (90 day RM)

Entry	Plant stand	Lodging	Test Weight	Grain Moisture	Grain Yield	Grower Return	Peshtigo 1142	Marathon 1998	Pittsville 2001	Gillett 2003	Spruce 2709
	no./A	%	lb/bu	%	bu/A	$/A	bu/A	bu/A	bu/A	bu/A	bu/A
Croplan Genetics 296TS	21855	1	54	19.8	159	473	167	120	146	212	149
NK Brand N27-W8	22408	2	53	21.3	150	442	161	95	143	206	147
Croplan Genetics 294Bt	22313	1	52	21.9	152	446	163	113	124	212	149
Dekalb DKC42-88(RR2YGPL)	22408	2	52	21.9	163	476	162	113	151	229	158
Pioneer 38K35	22175	2	54	22.1	149	438	154	111	133	198	151
Kaltenberg K3535Bt	22137	2	53	22.2	153	448	162	116	130	211	147
LG Seeds LG2407Bt	21568	2	52	22.2	159	466	164	121	130	227	154
Garst 8921YG1RR	22312	1	53	22.3	159	467	156	106	149	227	160
Renk RK438YGCB	21729	1	52	22.4	154	451	155	113	124	230	151
Dairyland Stealth 7191	21762	1	52	22.5	156	457	171	102	131	210	166
Mean	22067	1	53	21.9	156	456	161	111	136	216	153
LSD(0.10)	NS	NS	1	1.2	NS	NS	NS	7	6	NS	9

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

where Price = $3.29 = 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 = $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 Trial Information: 95 day

Location Cooperator Consultant	tri_id Soil series Soil texture	Previous crop	Planting Date Row width Population	Harvest Date Population	Fall and SpringTillage Cultivation (times)	Soil test pH	Soil test P (ppm)	Soil test K (ppm)	Fertilizer (lb/a) N	Fertilizer (lb/a) P	Fertilizer (lb/a) K	Weed control	Insecticide Fungicide
Manawa	2857	Corn	4/29/06			6	20	94	120	13	31	Lumax @ 1.75 qt/A + AMS 3 lb/A on 5/12/06	
Dan Boerst	Kennan		30		Spring chisel plow + Field cultivator (2x)								
Mike Kiddy			34000							1.4S			
May= cold and rainy, July-August= drought													
Oneida	2004	Soybean	5/6/06			7.5	28	94	205	75	127	Lumax @ 2.25 qt/A + Preference @ 1 qt/100 gal on 22May06	
Oneida Nation Farms	Onaway-Solona		30		Spring Field cultivator + Rotary harrow								
Bill Schaumberg, Polenske Agronomic Consulting			31500										
Oneida	2731	Corn	4/29/06	10/6/06	Fall chisel plow	6.3	19	82	150	75	240	Lumax 2.25 pt/A on 4/30/06	
Robertson Brothers Farms, LLC	Symco		30		Spring Field cultivator					15000 gal/A			
Jeff Polenske, Polenske Agronomic Consulting	silt loam		34000										
Field was dry.													
Peshtigo	2860	Corn	5/9/06	12/12/06	Chisel plow				130	84	83	LuMax @ 2.5 qt/A on 5/10	
Tom Kuchta	Emmet		30		Field Cultivator (2x)								
Scott Reuss			24500										
Reedsville	1999	Corn	4/27/06		Fall Chisel plow	6	22	103				Dual II Magnum @ 1.33 pt/A on 26Apr06 Distinct @ 3 oz/A + Agrox @ 1 pt/A + NIS @ 1 qt/A + AMS @ 5 lb/100 gal on 9Jun06	Force 3G @ 4.4 lb/A on 27Apr06
Larry Krepline	Kewaunee		30		Field cultivator (2x)								
Carl Buchner, Buchner Agronomy Consulting			28000										
Cool, wet conditions after planting thinned out stand in areas. Plot hurt by wet weather after planting, hail damage, and wildlife dmage.													
Seymour	2002	Corn	5/1/06		Fall Chisel plow	7.5	30	101	153	33	70	Steadfast @ 0.75 oz/A + Hornet @ 2 oz/A + Atrazine @0.75 lb/A + AMS @ 2 lb/A + NIS @ 1 qt/100 gal on 10 Jun06	
Dave Wickman	Onaway		36		Spring Field Cultivator (2x)				Solid Dairy manure @ 5 T/A (15-15-40)				
Phil Stern			29500										
Very little lodging - short corn, not attractive plot. Surprised by yield.													

WAPAC Corn Hybrid Trial Results 95 day RM)

Entry	Plant stand	Lodging	Test Weight	Grain Moisture	Grain Yield		Grower Return	Reedsville 1999	Seymour 2002	Oneida 2004	Oneida 2731	Manawa 2857	Peshtigo 2860
	no./A	%	lb/bu	%	bu/A		$/A	bu/A	bu/A	bu/A	bu/A	bu/A	
Renk RK488YGCB	22842	0	55	22.4	151	*	440	117	174	223	164	68	164
Golden Harvest H7007Bt	22817	0	56	22.4	152	*	443	112	185	219	145	77	173
Garst 8880YG1	23017	0	55	22.4	146		424	104	168	220	148	64	171
LG Seeds LG2463Bt	22500	0	55	22.6	152	*	443	113	176	229	150	68	178
Dekalb DKC44-46(RRYGCB)	22767	0	55	23.0	144		417	99	168	208	142	71	173
Kaltenberg K4012RRBt	23115	0	55	23.0	157	*	455	107	204	226	155	66	183
Dairyland Stealth 7196	22228	0	56	23.4	154	*	447	116	182	217	146	87	179
Croplan Genetics 355RRBt	23108	0	56	23.7	150		434	114	171	219	149	73	176
Pioneer 38H62	23510	0	55	24.1	148		426	108	178	215	150	59	178
NK Brand N34-F1	23075	0	54	24.8	142		406	96	171	213	137	68	169
Dekalb DKC48-53(RR2YGCB)	22758	0	54	24.8	153	*	438	102	184	220	157	78	176
Mean	22885	0	55	23.3	150		434	108	178	219	149	71	175
LSD(0.10)	545	NS	1	1.2	6		18	NS	12	NS	NS	NS	NS

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

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

WAPAC Trial Information: 100 day

Location Cooperator Consultant	tri_id Soil series Soil texture	Previous crop	Planting Date Row width Population	Harvest Date Population	Fall and SpringTillage Cultivation (times)	Soil test pH	Soil test P	Soil test K	Fertilizer (lb/a) N	Fertilizer (lb/a) P	Fertilizer (lb/a) K	Weed control	Insecticide Fungicide
						--- ppm ---			manure (T/A)				
Appleton	2856	Alfalfa	4/26/06	10/6/06		7.3	12	81	232	78	273	Cinch @ 1 pt/A+Clearout @ 1 qt/A+ AMS @ 17 lb/100 gal on 4/20/06	None
Dave McCarthy	Hortonville		30						Manure 133-60-260				
Jeff Polenske, Polenske Agronomic Consulting	fine sandy loam		33600									Basis @ 0.33 oz/A+Crop oil @ 1 gal/100 gal+AMS @ 2 lb/A+Aatrex @ 1 lb/A on 5/15/06	None
Field was drought. Yields were down compared to rest of farm.													
Deerfield	2005	Corn	4/26/06	11/17/06	Spring Disk	6.1	31	110	113	20	20	Harness @ 2 pt/A on May Distinct @ 4 oz/A on June	Force @ 4.4 lb/A on 4/26
Russ Dahl	Dodge sil		30		Spring Field cultivator								
Tom Novak, Total Crop Management, LLC			32000										
Excessive rain through mid-June and then normal weather after.													
Markesan	1994	Corn	5/8/06		Chisel				140	18	45	Harness @ 2 pt/A + Hornet @ 3 oz/A on pre-emrge	
Steve Stellmacher	Kidder - Rotman		38		Disk (2x)								
Cornerstone Crop Consulting, LLC			29800		1x				9.7 S + 0.5 Zn				
Thanks to Leystra Vue Farms for weigh wagon use!													
Readfield	1996	Soybean	4/27/06		No-Till	6.4	51	125	124	22	45	Basis @ 0.25 oz/A + Marksman @ 2.25 pt/A + Prowl @ 2.25 pt/A + Crop Oil @ 1 gal/A on June 16	
Larry Danke	Hortonville		30										
Paul Knutzen, Knutzen Crop Consulting, Inc.			32000						6 S - 0.75 Zn				
West Bloomfield	1997	Soybean	5/4/06		Fall Chisel plow	6.4	21	103	121	12	120	Lumax @ 1.75 qt/A + Atrazine @ 0.25 lb/A + Steadfast @ 0.4 oz/A on 8Jun06	
Chuck Brewer/Jay Anderson	Hortonville		30		Field Cultivated								
Paltzer Agronomy Services			32400						9 S				
Drought stressed. Very dry July and August. Cool, wet weather hurt population on some hybrids. Very dry July and August hurt plot yields. Not sure if it is a useale plot.													

WAPAC Corn Hybrid Trial Results (100 day RM)

Entry	Plant stand	Lodging	Test Weight	Grain Moisture	Grain Yield		Grower Return	Markesan 1994	Readfield 1996	W. Bloomfield 1997	Deerfield 2005	Appleton 2856
	no./A	%	lb/bu	%	bu/A		$/A	bu/A	bu/A	bu/A	bu/A	bu/A
Croplan Genetics 364RR	28110	0	56	19.2	154		460	195	166	92	166	151
AgriGold A6225Bt	29040	0	56	19.7	169	*	503	207	183	115	188	150
LG Seeds LG2475BtRR	28860	0	56	19.7	164	*	490	208	178	103	186	148
Pioneer 37R71	29150	2	54	20.8	153		452	201	164	82	171	145
Dekalb DKC51-39(RR2YGPL)	29125	1	55	21.9	169	*	496	217	180	104	192	150
NK Brand N44-M1	27225	8	53	22.1	151		444	192	177	87	167	133
Renk RK632YGPL	29465	2	55	22.2	163	*	479	210	179	96	189	141
Dairyland Stealth 5201	28485	1	55	22.5	162	*	474	219	169	93	180	149
Golden Harvest L7H67BtRR	30290	0	53	23.3	156		454	198	174	96	178	134
Kaltenberg K5215Bt	29315	0	54	25.0	156		449	211	184	102	160	120
Pioneer 36W67	29410	1	53	25.7	165	*	473	215	180	98	183	149
Mean	28952	1	55	22.0	160		470	207	176	97	178	143
LSD(0.10)	NS	NS	1	1.3	7		22	10	NS	11	8	8

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

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Trucking = $0.11 per bushel for 100 miles

WAPAC Trial Information: 105 day

Location Cooperator Consultant	tri_id Soil series Soil texture	Previous crop	Planting Date Row width Population	Harvest Date Population	Fall and SpringTillage Cultivation (times)	Soil test pH P K --- ppm ---	Fertilizer (lb/a) N P K manure (T/A)	Weed control	Insecticide Fungicide
Cambridge	2723	Alfalfa	5/7/06	10/16/06		6.8 23 84	11 20 171	Roundup @ 0.75 lb/A + 2,4-D @ 1.0 lb/A + Express @ 0.25 oz/A on 10/05 Roundup @ 0.33 lb/A + Princep @ 0.90 lb/A + Harness @ 1.5 lb/A on 4/06	Some hybrids with Poncho Maxim + Apron
Jeff Nostad	Rockton		38						
A.D. Cole, ITAC of WI	silt loam		33000						
Range of cucumber mosaic virus = 2 to 9%									
Elkhorn	1306	Soybean	5/8/06	11/14/06	Spring Soil Finisher	6.3 45 105	138 20 20 Dairy manure @ 10000 gal/A	Harness @ 2 pt/A on May Distinct @ 4 oz/A on June	Force @ 4.4 lb/A on 5/8/06
Lauderdale Farms, Inc.	Sebewa sil		30						
Tom Novak, Total Crop Management, LLC	sil		32000						
Very wet through mid June and then mid-summer drought (6 weeks).									
Lodi	2722	Corn	4/24/06	10/28/06		6.7 39 179	187 60 157	Prowl @ 4.0 pt/A + Hornet @ 4 oz/A on 5/4/06	Force @ 4.4 lb/A on 4/29/06
Lochner Dairy, LLC	Mt Carroll		30		Spring Offset disk		Manure 6000 gal/A		
A.D. Cole, ITAC of WI	silt loam		29500		1 x @ V5		0.5 Zn		Maxim + Apron
Every hybrid was lodged NW to SE. Estimate 5-10 bu/A lost. Prowl may have "nubbed" brace roots.									
Markesan	1993	Corn			Disk	6.1 73 166	157 20 37	Accent @ 0.5 oz/A + Callisto @ 2 oz/A + Atrazine 90 @ 0.6 lb/A on June 1	Force 3G @ 2.75 lb/A
Muehlenhaupt / Meilahn	Plano		30		Soil finisher				
Cornerstone Crop Consulting, LLC	Medium		29600				1.55-0.14 Zn		
Thanks to Leystra Vue Farms for weigh wagon use!									
Prairie du Sac	1298	Soybean	5/23/06	11/16/06		6.8 75 200	86 14 42	Credit @ 64 oz/A on 5/18 Camex @ 2.4 qt/A + Princep @ 32 oz/A on 6/1	
Rick Walgenach	Richwood silt loam		40				40 lb N in manure		
A.D. Cole, ITAC of WI			34500						
Crowded guess rows. Plots are marked as missing rows.									

WAPAC Corn Hybrid Trial Results (105 day RM)

Entry	Plant stand	Lodging	Test Weight	Grain Moisture	Grain Yield		Grower Return	Prairie du Sac 1298	Elkhorn 1306	Markesan 1993	Lodi 2722	Cambridge 2723
	no./A	%	lb/bu	%	bu/A		$/A	bu/A	bu/A	bu/A	bu/A	bu/A
Croplan Genetics 491RRBt	30307	12	57	21.0	183	*	541	177	169	191	195	185
Kaltenberg K5685RRBt	29434	12	56	21.5	186	*	547	182	170	203	178	196
Renk RK644YGCB	32406	7	56	21.5	183	*	538	180	166	177	198	193
NK Brand N51-T8	30496	9	57	21.8	188	*	553	195	169	201	194	183
Dairyland Stealth 5204	29516	14	55	22.1	184	*	540	180	170	188	199	184
Dekalb DKC57-79(RR2YGPL)	30680	12	55	23.5	192	*	558	184	175	211	190	201
NK Brand N58-D1	28026	12	55	24.0	178		514	169	164	188	172	195
AgriGold A6395BtRWRR	30127	14	55	24.2	176		508	161	157	199	174	189
Mean	30124	12	56	22.5	184		537	178	168	195	187	191
LSD(0.10)	1608	NS	NS	NS	9		29	9	NS	10	17	NS

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

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Trucking = $0.11 per bushel for 100 miles

Thank you to everyone who contributed to the success of the 2006 WAPAC Corn Trials!

Data Analysis

Dr. Joe Lauer, Extension Corn Agronomist and the Agronomy Department support staff at the University of Wisconsin - Madison

Seed Company Sponsors

Agrigold - Dave Welsh
Croplan Genetics - Pat Van Duerzen
Dairyland Seed - Tom Abraham
DeKalb Seed Company - Dan Uppena
Garst Seed Company - Nina Holte
Golden Harvest Seed - Randy Rabata
Kaltenberg Seed Company - Jim Dassow
LG Seeds - Paul Reierson
NK Seed Company - Herb Damsteegt
Pioneer - Dan Wiersma/Arnie Imholte
Renk - Jeff Renk

On-Farm Trial Coordinators and Participating Growers

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

•Dave Cole - ITAC of Wisconsin, Inc., Prairie du Sac, WI
1.) 105-Day: Jeff Notstad - Cambridge, WI
2.) 105-Day: Dairy Forage Research Center - Prairie du Sac, WI
3.) 105-Day: Lochner Dairy, LLC - Lodi, WI

•Steve Hoffman - Hoffman Crop Consulting, Manitowoc, WI
1.) 95-Day: Mark Litz Farm - Kiel, WI
(Trial terminated due to weather.)

•Mike Kiddy - Kiddy Crop Consulting, New London, WI
1.) 95-Day: Dan Boerst - Manawa, WI

•Paul Knutzen - Knutzen Crop Consulting
1.) 95-Day: Paul Reierson - Iola, WI
(Trial terminated due to weather.)
2.) 100-Day: Larry Danke - Readfield, WI

•Rachel Mueller - Cornerstone Crop Consulting, Princeton, WI
1.) 100-Day: Steve Stellmacher - Markesan, WI
2.) 105-Day: Muehlenhaupt Farms, 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: Tom Hoffman - Whitewater, WI
(Trial terminated due to weather.)
3.) 105-Day: Lauderdale Farms - Elkhorn, WI

•Nathan Nysse-Polenske Agronomic Consulting, Appleton, WI
1.) 100-Day: Ryan Martin - New London, WI

•Larry Paltzer - Paltzer Agronomy Service, Omro, WI
1.) 100-Day: Chuck Brewer/Jay Anderson Farm - Weyauwega, WI

•Jeff Polenske-Polenske Agronomic Consulting, Appleton, WI
1.) 90-Day: Lee Herman - Pulaski, WI
(Trial terminated due to weather.)
2.) 95-Day: Robertson Bros. - De Pere, WI
3.) 100-Day: Dave McCarthy - Appleton, WI

•Scott Reuss, UW-Extension-Oconto/Marinette Counties, Marinette, WI
1.) 90-Day: Dan & Marie Pagel - Spruce, WI
2.) 90-Day: Kuchta Farms - Peshtigo, WI
3.) 95-Day: Kuchta Farms - Peshtigo, WI

•Bill Schaumberg -Polenske Agronomic Consulting., Appleton, WI
1.) 90-Day: Jeff & Connie Horsens - Gillett, WI
2.) 95-Day: Oneida Nations Farm - Seymour, WI

•Phil Stern - Stern Crop Consulting, Bonduel, WI
1.) 95-Day: Dave Wickman - Seymour, WI

•Paul Sturgis - Croptech Agronomics, Vesper, WI
1.) 90-Day: Draeger Dairy Farm - Marathon, WI
2.) 90-Day: Pete Peterson - Pittsville, WI

WAPAC Research Chair

Paul Sturgis, Croptech Agronomics, LLC, Vesper, WI

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