

Wisconsin On-Farm Testing WAPAC Corn Trials 2009



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

2009 WAPAC Corn Performance Trials

2009 Data Analyzed and Compiled by Jon Baldock, PhD (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 2009.

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 \$4.00/bu, and

Drying cost is 3.5¢/bu wet corn for each point above 15%, and

Test weight dockage is

1¢/bu for each lb/bu below 54 lbs/bu, plus

3¢/bu for each lb/bu below 52 lb/bu, plus

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 updated for 2009.)

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	Micro + Manure	Control
Consultant	Soil texture	crop	Population		Cultivation	---ppm---							
DePere,WI Robertson Bros Jeff Polenske	951 Hortonville	Soybeans	5/12/2009 30 36,000	11/18/2009	Fall Chisel Spring Field Cultivator	7	20	90	140	70	224		Lumax 2 1/2 qt
Manawa,WI Dan Boerst Mike Kiddy	952 Hortonville	Corn	5/18/2009 30 32,500	12/17/2009	Fall Chisel Spring Field Cultivator	6.6	9	50	162	140	330		Lumax 2 qt
Manawa Fietzer Farms Nathen Nysse	953 Hortonville silt loam	Corn	5/18/2009 30 32,000	11/16/2009	Spring Chisel Spring Field Cultivator 2x	7.2	30	160				9000 gal Manure	Lumax 2 1/4 qt
Pulaski,WI Ullmer Acres Nathen Nysse	954 Casco	Corn	5/18/2009 30 32,000			6.9	35	89	9	1.5	0.5		Lumax 2 qt Roundup 1 qt
Reedsville,WI Larry Krepline Carl Buchner	955 Kewaunee loam	Alfalfa	5/8/2009 30 33,500	11/24/2009	Fall Chisel Spring Field Cultivator	6.7	17	77	49	70	50		Roundup Power Max 21 oz Yukon 3 oz Aatrex 4L 1 pt AMS/100 gal 9 lbs
Seymour,WI Marvin & Ann Marie Karweick Bill Schaumberg	956 Onaway Silt loam	Wheat	5/5/2009 30 32,500	11/13/2009	Spring Field Cultivator	7.6	22	150	124	76	287		Lumax 2.5 qt Touchdown HiTech 26 oz AMS 3# NIS 1qt/100
St. Nazianz, WI Mark Litz Steve Hoffman	957 Kewaunee	Corn	5/8/2009 30 30,000	11/20/2009	Fall Chisel Spring Field Cultivator	7.8	22	119	156	112	303	8000 gal Manure	Acetochlor 3/4pt Pre Steadfast 1/2oz+ ATZ 1/2# Callisto 2oz Post
Suamico,WI Jerry Peters Phil Stern	958 Onaway	Soybean	5/17/2009 30 31,500	11/29/2009	Spring Chisel Spring Field Cultivator	7.3	101	179	94	1	6	manure	Lumax 2 qt
									138	23	30		

WAPAC Trial Information: 100 day

Location	tri_id		Planting Date		Fall and	Soil test			Fertilizer (lb/a)			
Cooperator	Soil series	Previous	Row width	Harvest Date	Spring Tillage	pH	P	K	N	P	K	Weed
Consultant	Soil texture	crop	Population		Cultivation	---ppm---			Micro + Manure			Control
Appleton,WI Dave McCarthy Jeff Polenske	1001 Hortonville	Alfalfa	4/24/2009 30 33,500	11/12/2009	No Till	7.6	23	158	194	66	200	Credit extra 1 qt 2 4 D 1 pt Imitator 1 pt Parallel 1 pt Orical 1 pt
Clintonville,WI Doug Behnke Mike Kiddy	1002 Hortonville	Alfalfa	5/11/2009 30 32,000	12/1/2009		6.7	24	100	161	66	153	Volley ATZ Lite 1.75 qt AMS 3 # Hornet 2.75 oz
Deerfield,WI Russ Dahl Tom Novak	1003 Dodge	Soybeans	5/5/2009 30 32,000	11/10/2009	No-till	6.3	27	88	108	21	21	Harness 2 pt Glyphosate 1 qt Status 3 oz
Fremont,WI Larry Danke Paul Knutzen	1004 Hortonville	Soybeans	5/2/2009	11/27/2009		6.4	51	125	142	13.5	45	Surestart 2 1/4 pt Atrazine 4L 1 pt Glyphosate 1 pt AMS 3#
Markesan,WI Russell Jahnke Rachel Mueller	1005 Kidder	Corn	5/20/2009 30 30,600	11/11/2009	Spring Chisel Spring Field Cultivator				164	7.4	7.4	SureStart 2 pt Cornerstone Plus 1 qt
Markesan,WI Russell Zastrow Rachel Mueller	1006 Plano	Corn grain	5/5/2009 36 31,500	11/7/2009	Fall Chisel Spring Disk Spring Mulcher	6.4	20	159	70	18	45	SureStart (impreg) 3 pt Roundup 1 qt
Seymour,WI Pat & Karen Van Lanen Jeff Polenske	1007 Menominee	Soybeans	5/11/2009 30 36,000	11/5/2009	Fall Chisel Spring Field Cultivator 2x	7.1	22	79	101	113	279	Lumax 2 qt

WAPAC Trial Information: 100 day cont:

Location	tri_id		Planting Date		Fall and	Soil test			Fertilizer (lb/a)			
Cooperator	Soil series	Previous	Row width	Harvest Date	Spring Tillage	pH	P	K	N	P	K	Weed
Consultant	Soil texture	crop	Population		Cultivation	---ppm---			Micro + Manure			Control
Whitewater,WI	1008	Soybeans	5/18/2009	11/17/2009	Spring Soil	7.1	37	116	123	46	60	Harness 2 pt
Tom Hoffman	Mahalasville		30		Finisher							Glyphosate 1 qt
Tom Novak			32,000									Status 3 oz
Wrightstown,WI	1009	Soybeans	5/21/2009		Fall Chisel	7	27	113	170	88	320	TopNotch 3 pt
New Horizon Dairy	Oshkosh		30		Spring Field				15000gal manure			Callisto 3 oz
Nathen Nysse	Silt loam		32,000		Cultivator 2x							Atrazine 3/4 lb

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	Micro + Manure	Control
Consultant	Soil texture	crop	Population		Cultivation	---ppm---							
Cambridge,WI Jeff Notstad A. D. Cole	1051 Rockton	Alfalfa	5/12/2009 34,000	11/5/2009	Fall Burndown No-till	7	29	134	169	12	31	1 ZN	Harness 7EC 2 pt Princep 90 .55 #/ac
Alfalfa credit 160 units													
Elkhorn,WI Lauderdale Farms Tom Novak	1052 Warsaw	Corn I / Fallow II	5/5/2009 30 32,000	11/17/2009	Fall Chisel Spring Soil Finisher	7.2	40	120	138	68	140		Harness 2 pt Status 5 oz
Lodi,WI Lockner Dairy A. D. Cole	1053 Mt. Carrol Silt loam	Corn	5/5/2009 34-36,000	11/14/2009	Spring Field Cultivator		47	173	155	82	193	1ZN 6,000 gal	Dual II Mag 2 pt Hornet WDG 4 oz
									48	48	126		
Markesan,WI Gran Prairie Farms Rachel Mueller	1054 Plano	Wheat/ Snap beans	5/6/2009 30 32,000	11/13/2009	Spring Mulcher/ Finisher 2x	6.7	36	148	102	0	30	12 S	Roundup 1 qt Prowl, generic 1 qt Status 3 oz
Prairie Du Sac,WI Rick Walgenbach A. D. Cole	1055 Ringwood Silt loam	Corn	5/12/2009 30	12/2/2009	Spring Aer-Way	6.6	25	122	98	13	34	6,000 manure	Harness 2 pt Hornet WDG 4 oz
									48	48	126		

WAPAC 2009 Corn Trials: 90 day RM Data - Means Across Locations.

Brand	Hybrid	Stand, No./A†	Lodged, %†	Test Wt, lbs/bu†	Grain Moisture, %†	Yield, Bu/A @ 15%†	Gross Margin, \$/A‡
Croplan	3114VT3	30115 *	2.0 *	48.4	27.3	148 *	591 *
Jung	7344VT3	29864 *	3.1	47.3	30.0	144 *	575 *
LG	LG2411VT3	29539	2.6 *	48.3	27.0	140 *	562 *
Pioneer	38N88	29750 *	1.7 *	49.0 *	25.1 *	140 *	560 *
Kaltenberg	K3039LLGTB	29940 *	2.4 *	48.2	27.4	140 *	559 *
Golden Harvest	H-6455GTGB	30145 *	3.2	48.9 *	26.1 *	140 *	558 *
Dairyland	St9789	29641 *	1.1 *	48.4	27.6	137	549
PIP	4893GT	29843 *	3.3	47.4	29.1	134	537
Renk	RK438RRYGP	29250	2.5 *	48.5	28.4	133	531
Trelay	2T145	30080 *	2.9 *	49.2 *	26.8	132	528
Number of locations		5	5.0	7.0	7.0	7	7
Mean		29817	2.5	48.4	27.5	139	555
LSD(10%)		577	2.0	0.7	1.5	9	37

† 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 \$4.00/bu, and
 drying cost is 3.5¢/bu wet corn for each point above 15%, and
 test weight dockage is

1¢/bu for each lb/bu below 54 lbs/bu, plus
 3¢/bu for each lb/bu below 52 lb/bu, plus
 5¢/bu for each lb/bu below 50 lbs/bu,
 assuming drying the grain adds 1 lb/bu to the test weight.

WAPAC 2009 Corn Trials: 90 day RM Yields by Location.

Brand	Trial ID Hybrid	Location Yield, bu/a @ 15% moisture						
		901 Bonduel	906 Pound	903 Marathon	907 Pulaski	902 Clintonville	904 Oneida	905 Pittsville
Croplan	3114VT3	159	151	106	164	135	149	173
Jung	7344VT3	146	149	123	160	106	146	177
LG	LG2411VT3	147	137	109	161	133	129	167
Pioneer	38N88	138	152	103	164	112	145	165
Kaltenberg	K3039LLGTB	135	146	116	156	122	118	184
Golden Harvest	H-6455GTCB	137	132	108	164	118	146	171
Dairyland	St9789	151	137	101	166	129	136	141
PIP	4893GT	136	127	100	145	127	148	156
Renk	RK438RRYGP	127	141	82	143	106	146	184
Trelay	2T145	115	137	95	148	123	135	171
Mean		139	141	104	157	121	140	169
Number of reps		2	1	2	2	2	2	2

WAPAC 2009 Corn Trials: 95 day RM Data - Means Across Locations.

Brand	Hybrid	Stand, No./A†	Lodged, %†	Test Wt, lbs/bu†	Grain Moisture, %†	Yield, Bu/A @ 15%†	Gross Margin, \$/A‡
Jung	7447VT3	27792 *	0.24 *	48.4	28.1	157 *	500
Trelay	4T722	29787 *	0.23 *	46.9	29.6	154 *	464
Renk	RK570VT3	28415 *	0.33 *	46.9	27.3	154 *	483
Pioneer	38M60	25991	0.15 *	49.9 *	22.8 *	153 *	543 *
LG	LG2426VT3	27186 *	0.96	49.7 *	25.4	153 *	519 *
Dairyland	St9196	28596 *	0.40 *	46.9	28.8	152 *	463
PIP	4895GTCBLL	26472	0.45 *	47.8	26.3	150 *	488
Croplan	3514VT3	28267 *	0.64 *	48.4	28.2	150 *	477
Kaltenberg	K3843VT3	28508 *	0.00 *	48.1	26.8	149	483
Golden Harvest	H-6931GT	28929 *	0.96	45.1	31.7	141	382
Number of locations		5	5	8	8	8	8
Mean		27994	0.44	47.8	27.5	151	480
LSD(10%)		3118	0.64	0.9	1.7	8	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 \$4.00/bu, and
 drying cost is 3.5¢/bu wet corn for each point above 15%, and
 test weight dockage is

1¢/bu for each lb/bu below 54 lbs/bu, plus
 3¢/bu for each lb/bu below 52 lb/bu, plus
 5¢/bu for each lb/bu below 50 lbs/bu,
 assuming drying the grain adds 1 lb/bu to the test weight.

WAPAC 2009 Corn Trials: 100-day RM Data - Means Across Locations.

Hybrid	Stand, No./A†	Lodged, %†	Test Wt, lbs/bu†	Grain Moisture, %†	Yield, Bu/A @ 15%†	Gross Margin, \$/A‡	
Brand							
Jung	7475VT3	31089 *	1.00 *	50.7 *	26.1 *	175 *	599 *
Croplan	388TS	31268 *	2.04	48.6	25.9 *	175 *	578 *
Dairyland	St9799	31232 *	1.79 *	48.3	26.8	169	548
Pioneer	37Y14	31286 *	2.10	49.4	26.4 *	168	560
Trelay	5T128	32071 *	2.04	49.8	26.6	167	561
LG	LG2496VT3	29824 *	1.61 *	49.9	25.5 *	167	570
Kaltenberg	K4053VT3	31964 *	2.07	50.1 *	26.2 *	165	556
Renk	RK670VT3	29217	1.38 *	48.2	30.7	164	495
PIP	5804GT	31411 *	1.98	48.0	29.8	161	493
Number of locations	7	6	9	9	9	9	9
Mean	31040	1.78	49.2	27.1	168	551	
LSD(10%)	2772	0.98	0.8	1.1	6	28	

† 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 \$4.00/bu, and
 drying cost is 3.5¢/bu wet corn for each point above 15%, and
 test weight dockage is

1¢/bu for each lb/bu below 54 lbs/bu, plus
 3¢/bu for each lb/bu below 52 lb/bu, plus
 5¢/bu for each lb/bu below 50 lbs/bu,
 assuming drying the grain adds 1 lb/bu to the test weight.

WAPAC 2009 Corn Trials: 105-day RM Data - Means Across Locations.

Hybrid	Stand, No./A†	Lodged, %†	Test Wt, lbs/bu¶	Grain Moisture, %†	Yield, Bu/A @ 15%†	Gross Margin, \$/A‡
Brand						
Croplan	5338VT3	30962 *	7.50 *	27.8 *	185 *	619 *
AgriGold	AG6309VT3	28628 *	10.83 *	27.4 *	179 *	604 *
Dairyland	St9006V	29871 *	6.67 *	27.6 *	176 *	592 *
Golden Harvest	H-8211 3000GT	28917 *	5.00 *	26.9 *	175 *	598 *
Trelay	6T510	29114 *	10.42 *	29.3	174 *	567 *
Jung	7514VT3	30628 *	10.42 *	25.9 *	173 *	597 *
Pioneer	35F44	26733	5.00 *	27.1 *	172	587 *
Kaltenberg	K5355LLGTBT	28847 *	6.25 *	28.4 *	170	563 *
LG	LG2532VT3	30603 *	6.67 *	30.6	165	524
Renk	RK686VT3	27604	7.08 *	27.0 *	163	553
Legend	9707RRHXT	27069	15.00	29.8	148	476
Number of locations	4	2.00	4.0	4	4	
Mean	29000	5.28	28.0	171	571	
LSD(10%)	2600	7.77	2.5	13	65	

† 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.

¶ Insufficient data for an analysis across locations.

‡ Gross Margin = Gross Income - drying cost - test weight dockage, where
 Gross Income is the yield times \$4.00/bu, and
 drying cost is 3.5¢/bu wet corn for each point above 15%.

WAPAC 2009 Corn Trials: 105 day RM Yields by Location.

Brand	Trial ID Hybrid	Location Yield, bu/a @ 15% moisture				1052 Elkhorn†
		1054 Markesan	1053 Lodi	1051 Cambridge	1055 Prairie Du Sac	
Croplan	5338VT3	219	191	203	128	182
AgriGold	AG6309VT3	210	185	206	116	177
Dairyland	St9006V	200	174	214	116	192
Golden Harvest	H-8211 3000GT	217	181	189	114	196
Trelay	6T510	203	180	196	116	194
Jung	7514VT3	221	170	197	102	174
Pioneer	35F44	205	168	191	123	
Kaltenberg	K5355LLGTBT	207	156	203	112	189
LG	LG2532VT3	164	171	200	126	
Renk	RK686VT3	192	159	187	116	193
Legend	9707RRHXT	179	153	165	92	171
Mean		202	172	196	115	185
Number of reps		2	2	2	3	2

† This site not included in across site analyses because of missing hybrids. The LSD(10%) for the single site analysis of yield was 25.7 bu/a.

**Thank you to everyone
who contributed to the success of
the 2009 WAPAC Corn Trials!**

Data Analysis

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

Seed Company Sponsors

Agrigold - Dave Welsh
Croplan Genetics – Pat Van Duerzen
Dairyland Seed – Kevin Naze
Golden Harvest – Jim Webb and Mike Weiss
Jung - Gale Harter
Kaltenberg – Jim Dassow
LG Seeds – Paul Reiersen
Partners in Production & Legend Seeds -
Mike Haedt and Jack Kaltenberg
Pioneer – Matt Pauli and Tim Mansell
Renk – Jeff Renk
Trelay-Kevin Schmitz

**On-Farm Trial Coordinators and
Participating Growers**

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 - 2.) 105-day: Lockner Dairy, Lodi, WI
 - 3.) 105-day: Rick Walgenbach, Prairie du Sac, WI
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 - 3.) 105-day: Gran Prairie Farms, Markesan, WI

**On-Farm Trial Coordinators and
Participating Growers, continued**

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 - 1.) 100-day: Russ Dahl, Deerfield, WI
 - 2.) 100-day: Tom Hoffman, Whitewater, WI
 - 3.) 105-day: Lauderdale Farms, Elkhorn, WI
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 - 2.) 95-day: Fietzer Dairy Farms, Manawa, WI
 - 3.) 100-day: New Horizons Dairy, Wrightstown, 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.