

2006 SILAGE HARVEST REPORT

UN. OF VERMONT EXTENSION

Cooperator
UN. OF VERMONT EXTENSION
ST. ALBANS, VERMONT
GRAND ISLE County

Sales Rep: Kosinski, Michael



Planted: 05/30/2006
Harvested: 10/09/2006
Tillage: Conventional
Plant Rate:
Row Width: 30.0 in.

Prev. Crop: null
Prior Year Herbicide: No
Irrigated: No
Soil Texture: Silty Loam

N-P-K Applied (lb/ ac): 136 : 24 : 24
Soil pH:
Organic Matter:
Chemicals Applied:

Treat #	Brand	Product	Milk/Ton (lbs/ton)	Milk/Acre (lbs/acre)	Tons/Acre @70% Moist	Harvest Moisture(%)	Dry Matter Tons/Acre	Crude Protein(%)	ADF (%)	NDF (%)	NDF IVT (%NDF)	NDF 24h IVT (%NDF)	NEL (Mcal/lb)	Starch (%)	NFC (%)	TDN (%)
1	DEKALB	DKC45-82	3247	27811	28.55	63.4	8.6	8.3	25.1	43.3	61.0	45.0	0.72	33.6	43.3	74.0
12	DEKALB	DKC61-68	3312	25926	26.09	67.2	7.8	7.1	24.8	44.7	60.0	39.0	0.73	31.6	43.4	72.0
9	DEKALB	DKC57-79	3296	25628	25.92	67.1	7.8	8.4	24.9	39.4	68.0	36.0	0.78	30.3	46.1	76.0
4	MYCOGEN	TMF2N422	3183	25263	26.46	65.4	7.9	7.6	27.1	48.6	62.0	45.0	0.69	27.1	39.2	71.0
6	DEKALB	DKC54-46	3292	23802	24.10	70.7	7.2	7.6	26.6	47.4	61.0	50.0	0.70	25.6	39.4	70.0
5	DEKALB	DKC53-34	3151	21871	23.14	68.3	6.9	8.0	28.4	51.8	62.0	46.0	0.67	23.4	35.2	69.0
10	DEKALB	DKC58-19	3290	21581	21.86	70.2	6.6	7.1	26.7	45.7	61.0	41.0	0.72	28.7	42.0	71.0
3	DEKALB	DKC51-39	3258	20925	21.41	72.0	6.4	8.2	26.7	46.6	61.0	46.0	0.70	28.3	39.7	70.0
11	ASGROW	RX702RR2/YGCB	3072	20417	22.15	71.6	6.6	7.8	29.7	51.7	61.0	42.0	0.67	22.0	34.8	69.0
8	DEKALB	DKC55-82	2756	20020	24.21	70.7	7.3	7.3	33.1	58.1	58.0	39.0	0.59	18.4	29.2	65.0
2	DEKALB	DKC48-53	3498	18781	17.90	70.1	5.4	8.2	22.7	40.7	64.0	46.0	0.76	34.4	45.8	74.0
7	DEKALB	DKC54-53	3018	18599	20.54	71.4	6.2	8.0	30.8	48.8	67.0	50.0	0.68	20.5	36.4	70.0
Test Average:			3198	22552	23.53	69.0	7.1	7.8	27.2	47.2	62.2	43.8	0.70	27.0	39.5	70.9

Plots sorted by Milk/Acre rating.

Individual results will vary. Results obtained are not an indicator of results you may obtain as local growing, soil and weather conditions may vary. Growers should evaluate data from multiple locations and years whenever possible.

Compare DKC 54-46 with DKC 54-53

Asgrow/DEKALB SILAGE LEGEND

VALUE ADDED TRAITS:

RR2 = Roundup Ready® Corn 2
 RR2/YGPL = YieldGuard® Plus with Roundup Ready® Corn 2
 RR2/YGCB = YieldGuard® Corn Borer with Roundup Ready® Corn 2
 RR2/YGRW = YieldGuard® Rootworm with Roundup Ready® Corn 2
 YGPL = YieldGuard® Plus
 YGCB = YieldGuard® Corn Borer
 YGRW = YieldGuard® Rootworm
 WX = Waxy Corn
 IMI® = Tolerant to imidazolinone (IMI) herbicides
 CONV = Conventional

EVALUATIONS:

ADF% = Acid Detergent Fiber as % of dry matter
 NDF% = Neutral Detergent Fiber as % of dry matter
 NDFd = Neutral Detergent Fiber digestibility as % of NDF
 DM Digest 48h IVTD% = 48 hr In-vitro Total Dry Matter Digestibility in % of Dry Matter
 NEL = Net Energy (Lactation)
 NFC = Non-fiber Carbohydrate as % of dry matter
 TDN = % of Total Digestible Nutrients in Silage

GENERAL:

N/A = Not Available

Milk per Ton and Milk per Acre are calculated using University of Wisconsin Corn Silage Evaluation System - Milk 2000 ver. 7.4.

All LAB analysis conducted by Dairy One Laboratory, Ithaca, NY.

Warranty and Disclaimer of Warranties

Asgrow Seed Company LLC and Dekalb Genetics Corporation warrant that the products they sell will be labeled as required by law and that they will conform to the label description. ASGROW, DEKALB AND SELLER MAKE NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE. There are no guarantees of crop yield or freedom from seed-borne disease. Any recommendations for use of these products or materials or apparatus in connection therewith are based upon Asgrow's or DEKALB's or Seller's best judgement, but there is no warranty of results to be obtained in connection therewith.

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The exclusive remedy for loss or damage due to breach of the foregoing warranty or contract, or for negligence or other cause shall be limited to return of purchase price of Asgrow's or DEKALB's products and shall not include any consequential damages. Claims for defects in Asgrow's or DEKALB's products must be presented to Monsanto Company as soon as practicable to enable Monsanto Company to investigate the claim and in any event within thirty (30) days after discovery.

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The agronomic ratings stated in the product agronomic charts were developed from Asgrow's and DEKALB's internally conducted trials, which utilize commonly accepted methodology. These ratings can be used for comparative purposes between established and newly released products. They may not reflect total comparative performance. Actual performance may vary based on a number of factors, including without limiting the prevalence of the disease-causing organism or insect pest and environmental conditions. Product choice should be based on all performance information and not on pest reaction alone.



Grain harvested from products that bear this mark is fully approved for food and feed use in the United States and Japan, but is not approved in the European Union. You must find a market for this crop that will not ship this grain or its processed products to Europe. Appropriate markets for this grain include: domestic feed use or grain handlers that specifically agree to accept this grain and handle it appropriately. For more information on your grain market options, go to the American Seed Trade Association's website at www.amseed.org or call your seed supplier.

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Growers should refer to Monsanto's Technology Use Guide for information on crop stewardship regarding the potential movement of pollen to neighboring crops. ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS. Know Before You Grow® is a service mark of National Corn Growers Association. For more information call 1-866-SELL CORN.



Before opening a bag of seed, be sure to read and understand the stewardship requirements, including applicable refuge requirements for insect resistance management, for the biotechnology traits expressed in the seed as set forth in the Monsanto Technology Agreement that you sign. By opening and using a bag of seed, you are reaffirming your obligation to comply with those stewardship requirements.

On April 18, 2005 the European Union (E.U.) notified that the following Monsanto corn traits already in the marketplace will be accepted (grandfathered) in processed feed: YieldGuard Plus, YieldGuard Rootworm with Roundup Ready Corn 2, and YieldGuard Corn Borer with Roundup Ready Corn 2. This action by the E.U. on these biotech products may result in additional marketing options for growers who plant seeds containing these traits. Growers must talk to their grain handler to learn more and to determine whether this development affects their ability to market or their decision to plant these traits. YieldGuard Plus with Roundup Ready Corn 2 was not in the market, and therefore not qualified to be notified by the E.U. for acceptance in processed feed. Growers planting YieldGuard Plus with Roundup Ready Corn 2 must talk to their grain handler to confirm the handler's buying position for grain from this product. It is a violation of national and international law to move material containing biotech traits across boundaries into nations where import is not permitted.

Always Read and Follow Pesticide Label Directions.

Bullet®, INTRRO® and Lariat® are restricted use pesticides and are not registered for use in all states. The distribution, sale or use of an unregistered pesticide is a violation of federal and/or state law and is strictly prohibited. Check with your local Monsanto dealer or Monsanto Representative prior to use concerning state registrations.

Roundup Ready® crops contain genes that confer tolerance to glyphosate, the active ingredient in Roundup® agricultural herbicides. Roundup® agricultural herbicides will kill crops that are not tolerant to glyphosate. Asgrow® and the A Design, Bullet®, EasyFILL™, Grow the Feed, Not the Weeds™, INTRRO®, Lariat®, Processor, Preferred®, Residue Proven®, Roundup®, Roundup Ready®, Roundup Rewards®, Seed To Feed™, SilageProven™, Vistive™, YieldGuard® and YieldMaker™ are trademarks of Monsanto Technology LLC. AccuFlat™, AccuRound™, DEKALB® and the Winged Ear Design, SeedPak 50™, Strong Roots, Strong Yields®, and Sudax® are trademarks of Dekalb Genetics Corporation. Poncho® is a registered trademark of Bayer AG. All other trademarks are the property of their respective owners.

YieldGuard® corn products are not yet registered in all states. Check with your Monsanto representative for the registration status in your state.

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In 2006, Monsanto worked with Cornell University to evaluate the value of YieldGard® Insect Traits in the Northeast for silage. Dr. W. Cox conducted the trials at 2 locations, Aurora, Cayuga County, NY and Harford, Cortland County, NY.

The isoline hybrid used was DEKALB DKC51-45 which carried only the RR2 trait. DKC50-20 contained the YieldGard® Corn Borer trait (MON810) as well as the RR2 trait. DKC51-39 was the YieldGard® Plus (RR2 + MON810 + MON863) hybrid. Each entry/treatment was replicated 3 times at each location. Plots were machine harvested and samples collected from each plot by Dr. Cox and submitted to Dairy One in Ithaca, NY for analysis.

Results from Dairy One were used to calculate yield as well as entered into Milk2006, the program developed by the University of Wisconsin to determine Milk per Ton and Milk per Acre.

Each site was evaluated for insect pressure. Roots were dug and rated at each location by Dr. E. Shields of Cornell, using the Iowa State Root Damage Rating scale. (RDR 0-3). The average RDR at the Aurora site was 0.42 and at the Harford site, 1.85. European Corn Borer pressure was limited at both locations, 25% of plants evaluated infested with corn borer at Aurora and 13.3% at Harford.

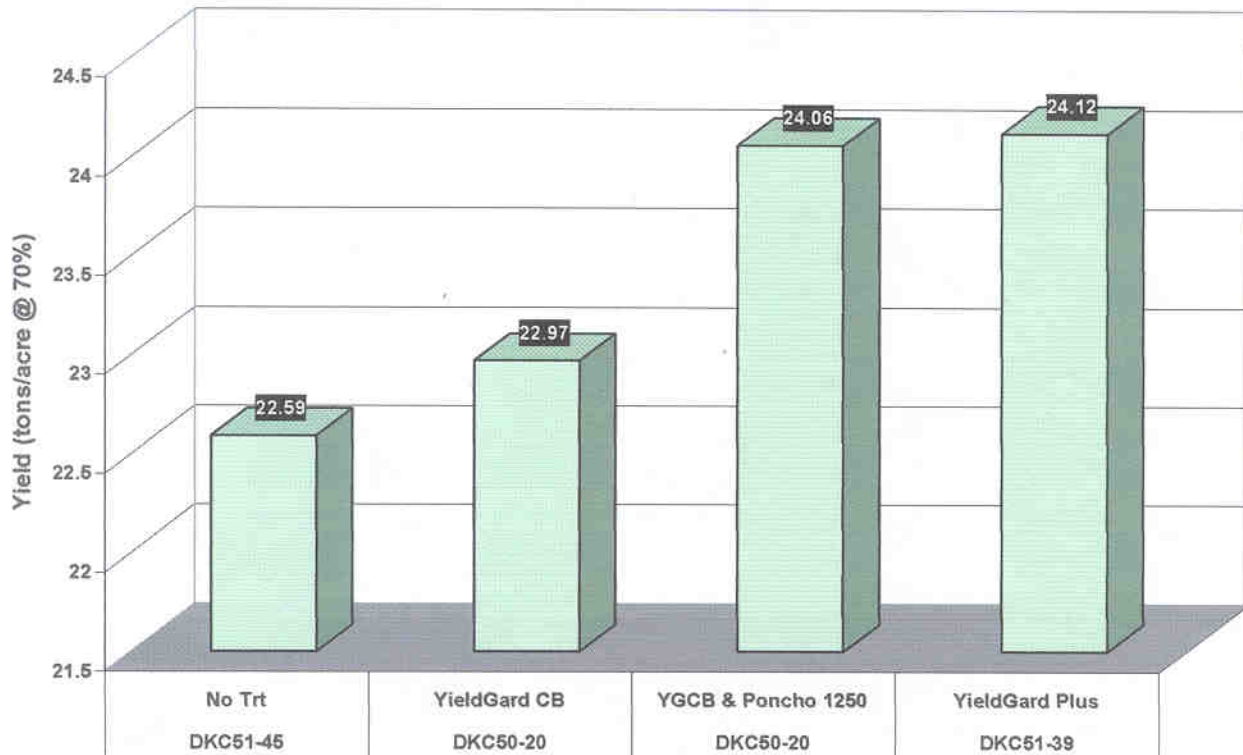
There was still a response at both locations for the hybrid containing the YieldGard corn borer trait. YieldGard corn borer increased silage yield by 0.38 t/ac at the Aurora site and by 1.03 t/ac at Harford. Including the YieldGard rootworm trait as the YieldGard Plus hybrid further increased yield over the hybrid without an insect trait. The YieldGard Plus advantage was 1.53 t/ac at Aurora and 3.76 t/ac at Harford, where the corn rootworm pressure was much greater.

Silage quality, as evaluated by Milk per Ton, showed no significant difference between the treatments.

(Data and summary submitted by Bob DeWaine, Technology Development Representative, Monsanto, Sherrill, NY, 315-363-3539)

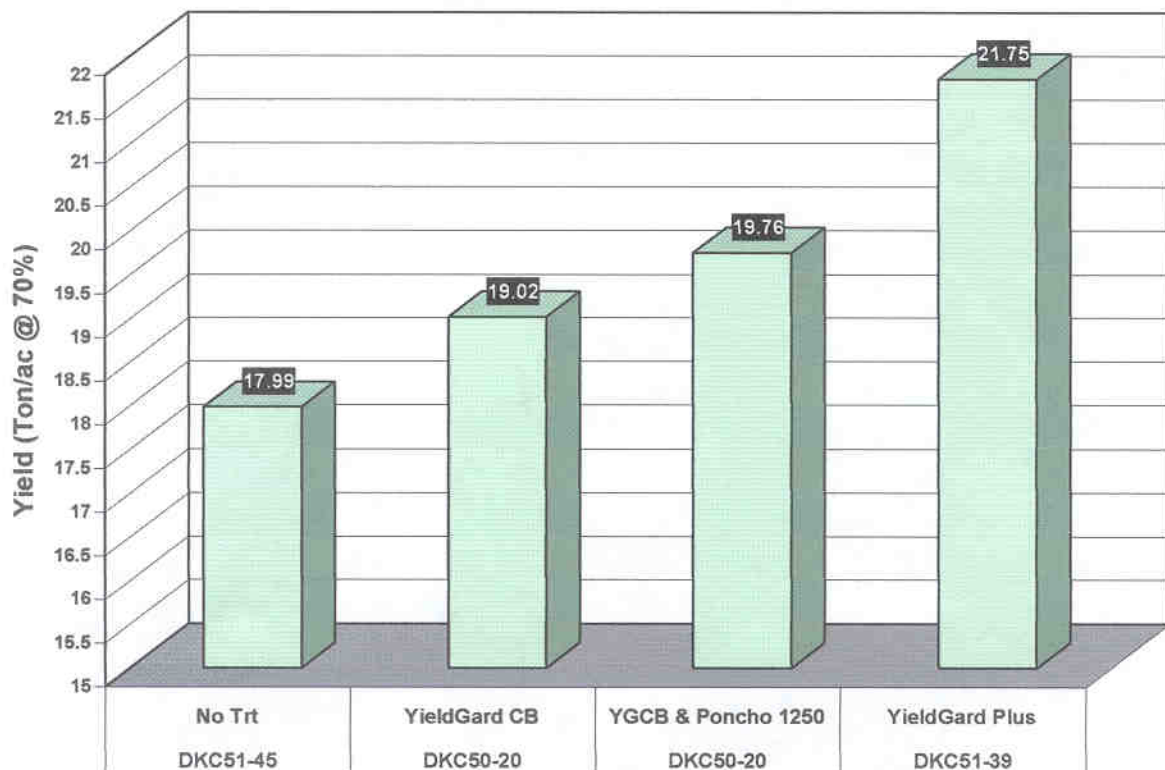
Value of YieldGard Traits for Silage

Cornell University Trial - Cayuga Co., NY - 2006
(3 replications per treatment)



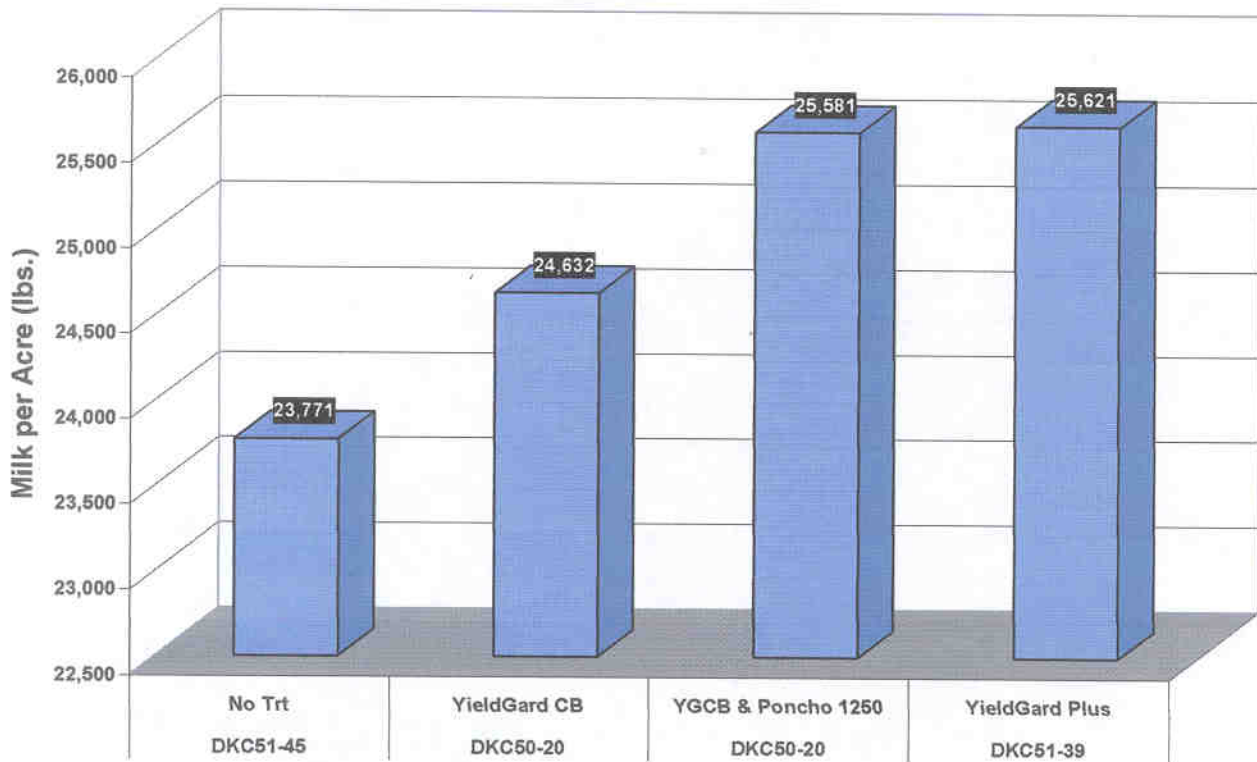
Value of YieldGard Traits for Silage

Cornell University Trial - Cortland Co., 2006
(3 replications per treatment)



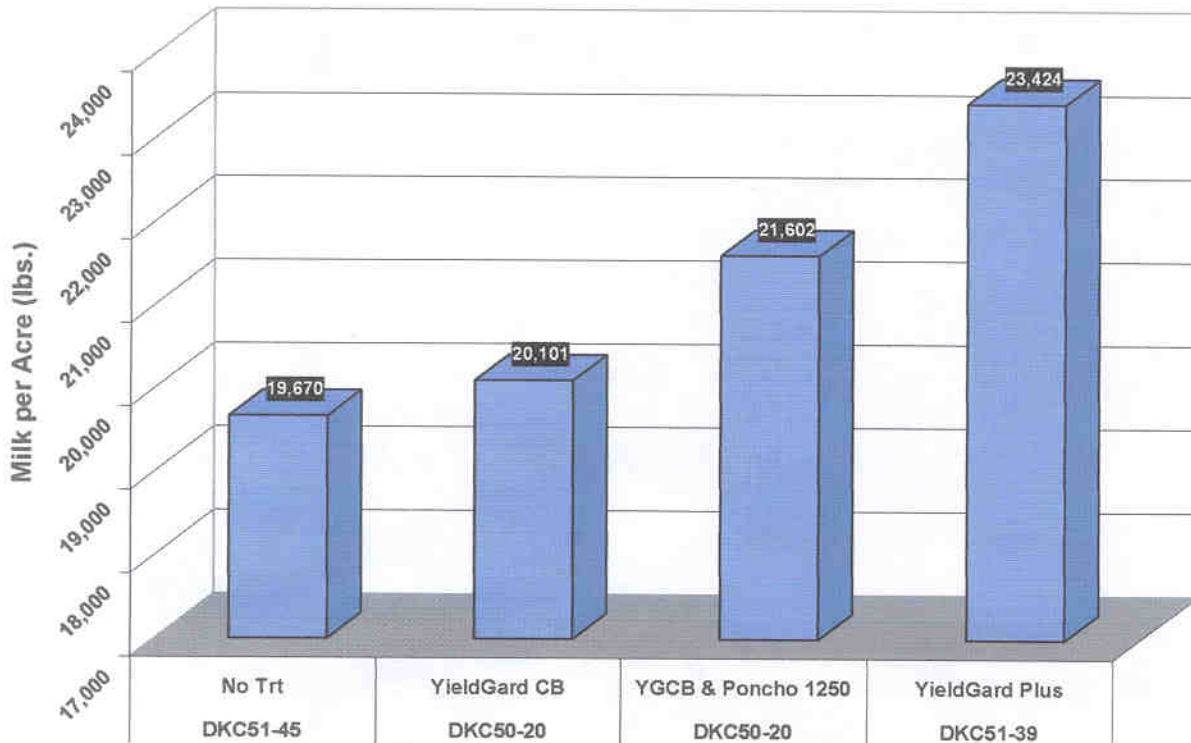
Value of YieldGard Traits for Silage

Cornell University Trial - Cayuga Co., NY - 2006
(3 replications per treatment)



Value of YieldGard Traits for Silage

Cornell University Trial - Cortland Co., 2006
(3 replications per treatment)



Cooperator Lawrence Deyo **Crop:** Grain Corn MD
Address 7848 St Rte 9 **Dealer**
City, State, Zip Plattsburg, NY 12901 **Sales Rep** M. Kosinski
Phone 518 561-0728 **Plot Type**



County Clinton **Pesticide Information (required only for MD plots)**
Harvest Date 8-May-06 **Prior Yr Herb** Roundup WeatherMAX and Prowl H2O
Planting Date 30000 **PreHerb 1** Bicep II Magnum **Rate** 2 qt **Date** 4/26/06
Row Width 30 **PreHerb 2** Prowl H2O **Rate** 3 pt **Date** 4/26/06
Prev Crop Grain Corn **PostHerb 1** **Rate** **Date**
Tillage Type **PostHerb 2** **Rate** **Date**
Irrigated **Insecticide** **Rate** **Date**
Lat/Long 42.84018, -73.64149 **Directions to plot**
Buffer Rows **Plot Starts On** **Side of Field**

Soil Info (required for FACT)
Org Matter %
N-P-K (lb/ac) 95-35-35
Soil pH
P205
K20
Soil Type

Entry No.	Brand	Hybrid/Variety	Trait	Seed Trt	# Rows	Row Length	Harvest Weight	Harvest Moist %	Bu/Acre	Tst Wgt lbs/bu	Comments & Plot Details
1	DEKALB	DKC48-53	YGCB	P250	8	753	2940	18.1	146.3	56.0	
2	DEKALB	DKC48-46	YGPL	P250	8	753	3430	18.1	170.7	56.0	
3											
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COOPERATOR AND DATE
PLEASE CHECK ONE Use my name and likeness I agree to publishing data but don't use my name

Custom Comparison Report for Corn



Yr/Sea(2006,All; 2005,All; 2004,All; 2003,All)
Product Combinations
Region Selection

PRISM/WPVS Web

Apr 17, 2007 9:41 am

Pioneer® Product	Comparison Brand/Product	Yield #Cmp	Yield		% Income Adv
			Yield Adv	Win	
38P04 (HX1,LL)	Pioneer 38P05	625	4.5	68%	10
38P04 (HX1,LL)	Avg	625	4.5	68%	10

94247

Notes:

- Maximum number of intervening strips: 10
- Minimum number of locations: 5 (Default)
- Maximum RM difference: 5
- Price: Conventional: 3.75, High Oil (HOTC): 4.00, High Oil (HOSX): 4.00, White Premium (WH): 3.95, Waxy Premium (WX): 4.05; Adjustment: 0.03
- Experiments included: PAT, PKP, Weigh Wisely, Sales Rep
- All yields expressed in: Bushels per Acre
- Geographic selection: NAS North America
- Location Attributes:
- Trait Filter: Quality Code,Both Actual Value,=,G, Insecticide Seed Rate,Both Actual Value,=,None,Low Rate,Mid Rate, Insecticide Seed Rate,Both Actual Value,=,High Rate,Row Applied
- Break Out: Pio Product Segment, Comp Brand/Product Segment,
- Name Type: Default

Information and results contained herein represent the average of all comparisons across the area indicated. Comparisons may be against any number of competitors, unless otherwise stated. Results may not predict future performance and may not be complete. Hybrid/Variety responses are variable and subject to any number of environmental, disease and pest pressures.

Refer to www.pioneer.com/growingpoint or contact a Pioneer sales professional for the latest and complete listing of traits and scores for each Pioneer(R) brand product.

Comparisons contain data from all locations, regardless of level of ECB infestation. To evaluate CBR hybrids across levels of ECB/SWCB infestation (High vs. Low) contact your local agronomist, DSM, or sales rep for the "ECB/SWCB Level by CBR Hybrid Report".

*** Since the trait/segment information is derived from each competitor's own product information, Pioneer can make no warranty as to its accuracy.