

2015

**Pennsylvania
Five Acre Corn Club
Report**



**Supported by the Pennsylvania Corn
Growers Association and Participating
Seed Companies**



PennState Extension

2015 PENNSYLVANIA CORN CLUB

This year was yet another in a string of record years for the producers in the 5 Acre Corn Club. This year, yields averaged over 262 bushels per acre, up from 250 last year with 3 entries over 300 bu/acre. This year's yields caused the average annual yield increase to grow to 4.3 bushels per acre/year for the past twenty years, which is about twice the state average. Weather conditions were near ideal with little moisture stress throughout the season and few days with temperatures in the 90's, but a good amount of growing degree days in most areas. Planting was delayed a bit with a few fields planted in April, but many were planted in early May when conditions were near ideal. Plant populations this year were down slightly from last year, which was about 31,600. This year we surveyed participants on planting depth and 2 inches was the most popular response. Club members seem to confirm what many of us think are keys to high yield in our state: crop rotation, sidedressing, and use of manure. About 70% of participants sidedressed this year, with an average of about 100 pounds of N per acre. Total N applied, not including manure, was about 169 pounds per acre. Considering average yields of 262 bushels per acre, this suggests many fields are supplying significant N from manure and residual N from previous crops and participants are accounting for this. About 50% of fields were treated with a fungicide this year.

Congratulations again to all the producers who participated in this year's program. Many thanks are due to the extension educators and crop consultants who helped collect the yield and cultural information for the club. Also, a special thanks is due to Austin Kirt and Mark Antle in the Department of Plant Science for their diligent work in pulling this report together.
 Greg W. Roth, Department of Plant Science, Penn State

2015 STATE AVERAGES	ENTRIES	BUSHEL/ACRE	GRAIN MOISTURE	% DOWN	% BARREN	PLANT POPULATION
Shelled Corn No-Till	28	264.9	21.3	1.1%	2.6%	31,312
Shelled Corn Tilled	17	256.5	19.7	1.9%	2.4%	31,372
AVERAGE		261.7	20.7	1.4%	2.6%	31,333
TOTAL ENTRIES	45					

AWARD CLASSES

- A. SHELLED CORN TILLED CLASS, HARVEST SAMPLE 1.25 ACRES MINIMUM
- B. SHELLED CORN NO-TILL CLASS, HARVEST SAMPLE 1.25 ACRES MINIMUM
- C. 3 YEAR AVERAGE SHELLED CORN TILLED CLASS
- D. 3 YEAR AVERAGE SHELLED CORN NO-TILL CLASS

2015 PENNSYLVANIA CORN CLUB

PARTICIPANTS	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
HAVING YIELDS CHECKED	62	72	81	66	62	72	65	64	59	34	48	54	45	45
RECEIVING RECOGNITION	62	72	81	66	62	72	65	64	59	34	47	54	45	45
DISQUALIFIED	0	0	0	0	0	0	0	0	0	0	1	0	0	0
IN-SEASON FUNGICIDE TREATMENT						5	11	14	13	9	15	28	21	22
AVERAGE YIELD (BU/A)*	137	175	212	189	197	201	219	224	206	191	212	237	250	262

CLASS	BUSHEL	RIBBON	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
250 AND OVER		NAVY	0	0	3	1	3	4	10	10	5	2	5	22	23	32
225 to 249.9		BURGUNDY	0	4	26	6	11	14	22	29	14	2	12	15	15	8
200 TO 224.9		GOLD	2	12	28	19	20	19	14	13	18	12	12	13	7	4
175.0 TO 199.9		PURPLE	10	21	15	18	11	18	9	6	14	8	9	4	0	0
150.0 TO 174.9		BLUE	12	19	6	17	7	12	7	5	6	5	6	0	0	1
125.0 TO 149.9		RED	13	8	3	4	9	4	2	1	2	5	1	0	0	0
100.0 TO 124.9		WHITE	14	4	0	2	1	0	1	0	0	0	2	0	0	0
LESS THAN 100		GREEN	11	2	0	0	0	1	0	0	0	0	0	0	0	0

*BUSHEL OF SHELLED CORN (56 LBS PER BUSHEL @ 15.5% MOISTURE)

2015 PENNSYLVANIA CORN CLUB

**2015 CHAMPIONS
THREE YEAR AVERAGE AWARDS
(2013-2015)**

SHELLED CORN NO-TILL CLASS

1ST	Herman Manbeck Berks County	520 School Rd Womelsdorf, PA	2013	271.3	
			2014	272.8	
			2015	317.1	Pioneer P1197AM
			AVG	287.1	Bu/Acre
2ND	A. Dale Herr Lancaster County	PO Box 82 Kirkwood, PA	2013	270.5	
			2014	284.9	
			2015	300.7	Pioneer P1197AM
			AVG	285.4	Bu/Acre
3RD	Darren Grumbine Lebanon County	1725 Mt. Pleasant Rd Lebanon, PA	2013	268.7	
			2014	262.0	
			2015	290.6	DEKALB DKC62-08
			AVG	273.7	Bu/Acre

THREE YEAR AVERAGE RANKING TO TENTH PLACE

HARVEST CLASS: SHELLED CORN NO-TILL

15 Eligible

	Farmer	2013	2014	2015	Average	County
1	David Wolfskill**	264.2	303.0	315.5	294.2	Berks
2	Herman Manbeck	271.3	272.8	317.1	287.1	Berks
3	A.Dale Herr	270.5	284.9	300.7	285.4	Lancaster
4	Darren Grumbine	268.7	262.0	290.6	273.7	Lebanon
5	Doris Stoltzfus	256.2	284.2	277.7	272.7	Lancaster
6	Elvin Reiff	229.5	292.2	294.1	271.9	Lancaster
7	Kristen Grumbine	252.1	271.7	272.0	265.3	Lebanon
8	Merle Stoltzfus	243.4	282.2	264.3	263.3	Lancaster
9	Robert Buser	247.8	255.4	284.6	262.6	York
10	Carl Shaffer*	262.4	240.7	267.5	256.9	Columbia

*2013 3-Year Champion ineligible for 3-Year award

**2014 3-Year Champion ineligible for 3-Year award

2015 PENNSYLVANIA CORN CLUB

**2015 CHAMPIONS
THREE YEAR AVERAGE AWARDS
(2013-2015)**

SHELLED CORN - TILLED CLASS

1ST	Glen Krall Lebanon County	180 Schaeffer Rd Lebanon, PA	2013	263.2	Pioneer P1197AMXT
			2014	280.5	
			2015	282.2	
			AVG	275.3	
2ND	Linda Krall Lebanon County	180 Schaeffer Rd Lebanon, PA	2013	261.3	Pioneer P0993HR
			2014	267.0	
			2015	255.5	
			AVG	261.3	
3RD	Brian Fulmer Northampton County	653 Jones Hill Rd Pen Argyl, PA	2013	239.5	Hubner H4474 RC2P
			2014	274.8	
			2015	265.9	
			AVG	260.0	

THREE YEAR AVERAGE RANKING TO TENTH PLACE

HARVEST CLASS: SHELLED CORN - TILLED

14 Eligible

	Farmer	2013	2014	2015	Average	County
1	Glen Krall	263.2	280.5	282.2	275.3	Lebanon
2	Linda Krall	261.3	267.0	255.5	261.3	Lebanon
3	Brian Fulmer	239.5	274.8	265.9	260.0	Northampton
4	John Frederick	262.8	256.0	258.7	259.2	Bucks
5	David Schantz	251.5	247.1	268.2	255.6	Berks
6	Matthew Schantz	252.4	245.7	267.5	255.2	Berks
7	D. Richard Snyder	236.6	251.4	268.6	252.2	Lycoming
8	Douglas Scipioni	243.2	250.6	250.0	247.9	Lebanon
9	Scott Snyder	231.6	255.4	247.8	244.9	Lycoming
10	Bob Rook	209.7	244.8	257.2	237.2	Bucks

2015 PENNSYLVANIA CORN CLUB

Crop Management Programs of the 3 Year Champions

HARVEST CLASS:	SHELLED CORN NO-TILL	SHELLED CORN - TILLED
PLACE:	CHAMPION	CHAMPION
NAME:	Herman Manbeck	Glen Krall
COUNTY:	Berks	Lebanon
HYBRID:	Pioneer P1197AM	Pioneer P1197AMXT
2015 YIELD:	317.1	282.2
% DOWN:	-	0.0%
2014 CROP:	Soybeans	Wheat / Soybeans
PLANTING DATE:	25-Apr	20-Apr
YIELD CHECK SAMPLE SIZE:	1.30	1.43
ROW WIDTH:	30	30
PRE HERBICIDE	Basis Blend, Medal II	None
POST HERBICIDE	Aztec, Resolve Q	Touchdown, Resolve Q, Atrazine
In-Row, Granular or liquid Insecticide	None	None
SIDE DRESS:	60 Units	96 Units
STARTER:	10 units / 20-10-0	6 units / 6-21-6
MANURE:	Swine	Poultry
TOTAL FERTILIZER- N (lb/A):	130	100
GRAIN MOISTURE:	27	22.3
% BARREN:	-	4.1%
PLANT POPULATION:	35,196	32,060

2015 PENNSYLVANIA CORN CLUB

2015 CHAMPIONS

SHELLED CORN NO-TILL

	NAME	ADDRESS	HYBRID	POPULATION	YIELD
1ST	Herman Manbeck Berks	520 School Rd Womelsdorf ,PA	Pioneer P1197AM	35,196	317.1
2ND	David Wolfskill Berks	N. Church Rd Wernersville ,PA	DEKALB DKC62-08	35,447	315.5
3RD	A.Dale Herr Lancaster	PO Box 82 Kirkwood ,PA	Pioneer P1197AM	34,350	300.7

SHELLED CORN TILLED

	NAME	ADDRESS	HYBRID	POPULATION	YIELD
1ST	Glen Krall Lebanon	180 Schaeffer Rd Lebanon ,PA	Pioneer P1197AMXT	32,060	282.2
2ND	Brian Harnish Lancaster	569 Marticville Rd Dequea ,PA	DEKALB DKC65-19RIB	31,861	281.9
3RD	Richard Snyder Lycoming	401 RT 87 Hwy Montoursville ,PA	Pioneer P0197AM	30,753	268.6

2015 PENNSYLVANIA CORN CLUB

**CROP MANAGEMENT PROGRAMS OF THE
2015 SHELLED CORN CHAMPIONS**

HARVEST CLASS:	SHELLED CORN NO-TILL	SHELLED CORN TILLED
PLACE:	CHAMPION	CHAMPION
NAME:	Herman Manbeck	Glen Krall
COUNTY:	Berks	Lebanon
HYBRID:	Pioneer P1197AM	Pioneer P1197AMXT
YIELD:	317.1	282.2
% DOWN:	-	0.0%
2014 Crop:	Soybeans	Wheat / Soybeans
PLANTING DATE:	25-Apr	20-Apr
YIELD CHECK SAMPLE SIZE	1.30	1.43
ROW WIDTH:	30	30
PRE HERBICIDE	Basis Blend, Medal II	None
POST HERBICIDE	Aztec, Resolve Q	Touchdown, Resolve Q, Atrazine
In-Row, Granular or liquid Insecticide	None	None
SIDE DRESS:	60 Units	96 Units
STARTER:	10 units / 20-10-0	6 units / 6-21-6
MANURE:	Swine	Poultry
TOTAL FERT-N (lbs/Ac):	130	100
GRAIN MOISTURE:	27	22.3
% BARREN:	-	4.1%
PLANT POPULATION:	35,196	32,060

2015 PENNSYLVANIA CORN CLUB

2015 SHELLED CORN RANKINGS TO TENTH PLACE

HARVEST CLASS: SHELLED CORN NO-TILL

28 ELIGIBLE		Yield (Bu/A @15.5%)				
Farmer	Bu/A	Plants/A	Brand	Hybrid	County	
1	Herman Manbeck	317.1	35,196	Pioneer	P1197AM	Berks
2	David Wolfskill	315.5	35,447	DEKALB	DKC62-08	Berks
3	A.Dale Herr	300.7	34,350	Pioneer	P1197AM	Lancaster
4	Sam Stewart	299.4	29,969	DEKALB	DKC62-08RIB	Bucks
5	Elvin Reiff	294.1	34,798	Hubner	H4663 RR2 RIB	Lancaster
6	Henninger Farms	292.6	28,000	DEKALB	DKC62-08	Lehigh
7	Darren Grumbine	290.6	34,935	DEKALB	DKC62-08	Lebanon
8	John King	288.0		Hubner	H4744	Lancaster
9	Pine Hurst Acres	285.5	32,147	Channel	214-00 DGVT2PRIB	Northumberland
10	Samuel Conley	285.1	34,350	Hubner	H4663 RC2P	Lancaster
Average		296.9	33,244			

HARVEST CLASS: SHELLED CORN TILLED

17 ELIGIBLE		Yield (Bu/A @15.5%)				
Farmer	Bu/A	Plants/A	Brand	Hybrid	County	
1	Glen Krall	282.2	32,060	Pioneer	P1197AMXT	Lebanon
2	Brian Harnish	281.9	31,861	DEKALB	DKC65-19RIB	Lancaster
3	Richard Snyder	268.6	30,753	Pioneer	P0197 AM	Lycoming
4	David Schantz	268.2	30,840	Pioneer	P01197	Berks
5	Richard Kreider	267.8	36,500	Pioneer	P1197AM	Lebanon
6	Matthew Schantz	267.5	28,924	Pioneer	P01197	Berks
7	Brian Fulmer	265.9		Hubner	H4474 RC2P	Northampton
8	William Serwell	259.8	28,664	DEKALB	DKC61-88	Bucks
9	John Frederick	258.7	35,173	Growmark FS	FS 62R43VT2P	Bucks
10	Bob Rook	257.2	31,450	Pioneer	P0993	Bucks
Average		267.8	31,803			

2015 PENNSYLVANIA CORN CLUB

Farm Name	Bu/A	% H2O	Plant Pop.	Stand/Planted	% Down	% Barren	Row Width	Applied Manure	Starter Fertilizer analysis	Rate (lbs or gal/Ac)	Brand	Hybrid	Harvest Class
<u>Berks County</u>													
Herman Manbeck	317.1	27.0	35,196				30	Swine	20-10-0	10 gal	Pioneer	P1197AM	No-Till
David Wolfskill	315.5	23.9	35,447	0.97	0.4%	1.1%	30	Dairy	8-25-4-2		DEKALB	DKC62-08	No-Till
David Schantz	268.2	17.3	30,840	0.98	0.0%	2.0%	30	Dairy	36-0-0	200 lbs	Pioneer	P01197	Tilled
Matthew Schantz	267.5	17.2	28,924	0.88	0.3%	1.8%	30	Dairy	37-0-0-7	150 lbs	Pioneer	P01197	Tilled
Average	292.1	21.3	32,602	0.94	0.2%	1.6%							
<u>Bucks County</u>													
Sam Stewart	299.4	16.0	29,969	0.91	0.9%	1.2%	30				DEKALB	DKC62-08 RIB	No-Till
William Serwell	259.8	17.7	28,664	0.96	0.0%	5.2%	30		6-20-0	10 gal	DEKALB	DKC61-88	Tilled
John Frederick	258.7	19.3	35,173	1.00	2.5%	0.7%	30				Growmark FS	FS 62R43 VT2P	Tilled
Bob Rook	257.2	20.9	31,450	1.00	0.0%	2.2%	30				Pioneer	P0993	Tilled
Tim Stewart	254.0	17.2	30,492	0.92	0.3%	2.0%	30				Channel	209-51VT2PRIB	No-Till
Randy Serwell	246.5	17.5	27,791	0.93	0.0%	3.1%	30		6-20-0	5 gal	DEKALB	DKC61-88	Tilled
William Rook	222.3	18.8	26,746	0.89	0.0%	3.6%	30				Pioneer	P1197AM	No-Till
Average	256.8	18.2	30,041	0.94	0.5%	2.6%							
<u>Cameron County</u>													
John Mason	225.7	19.5	33,628	1.00	2.8%	1.9%	30				TA Seeds	TA 477	Tilled
<u>Columbia County</u>													
Carl Shaffer	267.5	18.5	31,410	0.97	0.0%	1.9%	30		8-24-4	3 gal	Pioneer	P1197 AMXT	No-Till
<u>Dauphin County</u>													
David Coble	219.9	17.0	27,791	0.96	11.3%	0.9%	30	Beef Penn Pack	5-15-15	5 gal	Pioneer	P1197	No-Till
<u>Fayette County</u>													
Robert Dorazio	236.1	18.2	24,916	0.78	1.2%	0.7%	30		5-15-15	8 gal	Pioneer	P1197 AM	No-Till
Richard Burd	168.7	23.9	24,916	0.95	2.5%	3.2%	30				Pioneer	P2088	No-Till
Average	202.4	21.1	24,916	0.87	1.8%	1.9%							
<u>Franklin County</u>													
Aldean Crider	283.8	18.9	30,710	0.64	1.3%	9.4%	20	Poultry	9-18-9	5 gal	Hubner	H4744RC2P	No-Till
Leslie Bowman	283.0	24.5	35,632	0.85	0.2%	0.0%	30		8-10-6-2	8 gal	Pioneer	P1197AM	No-Till
Lyle Ocker	227.7	19.4					20	Dairy	black label	2 gal	Hubner	H4663RC2P	No-Till
Average	264.8	20.9	33,171	0.74	0.8%	4.7%							

2015 PENNSYLVANIA CORN CLUB

Farm Name	Bu/A	% H2O	Plant Pop.	Stand/ Planted	% Down	% Barren	Row Width	Applied Manure	Starter Fertilizer analysis	Rate (lbs or gal/Ac)	Brand	Hybrid	Harvest Class
<u>Northampton County</u>													
Brian Fulmer	265.9	21.1					30		8-32-16		Hubner	H4474 RC2P	Tilled
Robert Fulmer	232.3	21.5					30		8-32-16		Hubner	H6764 RC55	Tilled
Average	249.1	21.3											
<u>Northumberland County</u>													
Pine Hurst Acres	285.5	23.6	32,147	0.46	0.0%	2.2%	30		7-21-7	5 gal	Channel	214-00DGVT2PRIB	No-Till
Leon Wertz	233.3	21.6	31,977	0.97	1.3%	0.9%	30		6-18-6	5 gal	Pioneer	P1105 AMX	No-Till
Average	259.4	22.6	32,062	0.71	0.6%	1.6%							
<u>Perry County</u>													
Nevin Rice	204.4	19.6	26,961	1.00	0.0%	0.8%	38	1500 Gal Liquid Cow			Pioneer	P0970AMXT	No-Till
<u>York County</u>													
Robert Buser	284.6	28.6	27,381	0.86	0.0%	0.0%	30	Swine	5-20-20	3 gal	Pioneer	P1197 AM	No-Till
William Buser	259.4	24.3	29,870	0.93	0.0%	0.8%	30	Swine	5-20-20	3 gal	Pioneer	P1197 AM	No-Till
Ethan Buser	254.7	20.8	29,372	0.92	0.0%	0.9%	30	Swine	5-20-20	3 gal	Pioneer	P0157 AMX	No-Till
Average	266.2	24.6	28,874	0.90	0.0%	0.6%							

2015
PENNSYLVANIA CORN CLUB

Cultural Practice Summary

Management factor	Entries	Bu/A	%H2O	Population	%Down	%Barren
Manured Fields						
No	17	252.0	19.7	30,351	0.8%	2.1%
Yes	28	267.6	21.3	31,843	1.7%	2.9%
Previous Crop						
Soybeans	28	262.0	20.8	31,272	1.9%	3.1%
Corn	7	255.3	20.0	29,919	0.2%	1.8%
Wheat/Soybeans	5	283.2	20.6	34,674	0.7%	1.7%
misc	5	247.2	20.9	30,527	0.7%	1.4%
Tillage						
No-Till	28	264.9	21.3	31,312	1.1%	2.6%
Tilled	17	256.5	19.7	31,372	1.9%	2.4%
Average all club members		261.7	20.7	31,333	1.3%	2.6%

Average Nitrogen (lb/acre) from fertilizer: 169
(does not include manure and previous crop credits)

Percentage of fields receiving a sidedress N application: 70%

Average sidedress N application (lb/A): 98

Percentage of fields receiving a fungicide application: 50%

Percentage of fields receiving an in-row granular or insecticide used

<u>Previous crop</u>	
corn	43%
soybeans	43%

Percentage of fields receiving manure: 62%

Total corn acres grown by participants: 15,982

