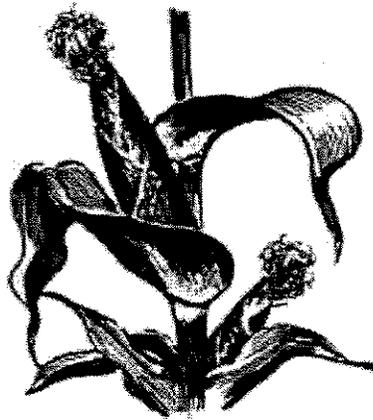


**2017**

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**Pennsylvania  
Five Acre Corn Club  
Report**

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



**PennState Extension**

**2017 PENNSYLVANIA CORN CLUB**

This year our 39 members averaged 249.5 bushels/acre with a final stand of 31,076 plants/acre. The top yield this year was 294.9 bushels/acre. Yields in each region of the state were impressive, with each averaging 224 bushels or more. Our yields may have been limited somewhat by cooler temperatures and reduced radiation this summer. In a few areas, late season water stress was an issue.

Nevertheless, yields in the corn club have continued to follow our trendline of increasing by more than 4 bu/acre/year for the past 24 years. We continued our survey of cultural practices and as in the past found that most folks are planting at 2 inches deep. We also found that 62% of the entrants this year used a fungicide. We noted that other proven yield practices are common, such as crop rotation (79%), manure application (61%) and sidedressing (77%). We also found that 72% of our entries were no-till 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 Courtney Anchor 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

<b>2017 STATE AVERAGES</b>	<b>ENTRIES</b>	<b>BUSHEL/ACRE</b>	<b>GRAIN MOISTURE</b>	<b>% DOWN</b>	<b>% BARREN</b>	<b>PLANT POPULATION</b>
Shelled Corn No-Till	28	249.2	22.4	3.1%	2.1%	30,313
Shelled Corn Tilled	11	250.3	21.8	2.0%	1.7%	33,062
<b>AVERAGE</b>		249.5	22.3	2.7%	2.0%	31,076
<b>TOTAL ENTRIES</b>	<b>39</b>					

**2017 PENNSYLVANIA CORN CLUB**

PARTICIPANTS	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
HAVING YIELDS CHECKED	81	66	62	72	65	64	59	34	48	54	45	45	37	39
RECEIVING RECOGNITION	81	66	62	72	65	64	59	34	47	54	45	45	37	39
DISQUALIFIED	0	0	0	0	0	0	0	0	1	0	0	0	0	0
IN-SEASON FUNGICIDE TREATMENT				5	11	14	13	9	15	28	21	22	17	24
AVERAGE YIELD (BU/A)*	212	189	197	201	219	224	206	191	212	237	250	262	240	250

CLASS BUSHELS	RIBBON	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
250 AND OVER	NAVY	3	1	3	4	10	10	5	2	5	22	23	32	12	22
225 to 249.9	BURGUNDY	26	6	11	14	22	29	14	2	12	15	15	8	14	9
200 TO 224.9	GOLD	28	19	20	19	14	13	18	12	12	13	7	4	8	7
175.0 TO 199.9	PURPLE	15	18	11	18	9	6	14	8	9	4	0	0	3	1
150.0 TO 174.9	BLUE	6	17	7	12	7	5	6	5	6	0	0	1	0	0
125.0 TO 149.9	RED	3	4	9	4	2	1	2	5	1	0	0	0	0	0
100.0 TO 124.9	WHITE	0	2	1	0	1	0	0	0	2	0	0	0	0	0
LESS THAN 100	GREEN	0	0	0	1	0	0	0	0	0	0	0	0	0	0

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

2017 PENNSYLVANIA CORN CLUB

## 2017 CHAMPIONS

	NAME	ADDRESS	HYBRID	TILLAGE	POPULATION	YIELD
1ST	Darren Grumbine Lebanon	1725 Mt. Pleasant Road Lebanon, PA	DEKALB DKC64-89	No-Till	35,022	294.9
2ND	Kristen Grumbine Lebanon	1725 Mt. Pleasant Road Lebanon, PA	Pioneer P1197AM	No-Till	34,151	292.0
3RD	Linda Krall Lebanon	180 Schaeffer Road Lebanon, PA	Pioneer P0843AM	Tilled	33,625	287.8

## REGIONAL CHAMPIONS 2017

Production Region	Name	Yield (bu/ac)	Plant Population	Variety	County	Tillage
Central Region	Leslie Bowman	279.1	33,919	Pioneer P1197AM	Franklin	No-Till
	Carl Shaffer	275.4	29,359	Pioneer P1316AM	Columbia	No-Till
<b>Central Region Average</b>		<b>277.3</b>	<b>31,639</b>			
Northern Region	Dick Snyder	256.0	33,048	DEKALB DKC62-08	Lycoming	Tilled
	Scott Snyder	192.1	33,222	Pioneer P1197AM	Lycoming	Tilled
<b>Northern Region Average</b>		<b>224.1</b>	<b>33,135</b>			
South Central Region	Darren Grumbine	294.9	35,022	DEKALB DKC64-89	Lebanon	No-Till
	Kristen Grumbine	292.0	34,151	Pioneer P1197AM	Lebanon	No-Till
<b>South Central Region Average</b>		<b>293.4</b>	<b>34,587</b>			
Southeastern Region	Tim Stewart	281.1	31,900	DEKALB DKC62-08	Bucks	No-Till
	Sam Stewart	272.7	30,250	DEKALB DKC62-08	Bucks	No-Till
<b>Southeastern Region Average</b>		<b>276.9</b>	<b>31,075</b>			
Western Region	Rick Telesz	229.5	29,882	FS InVISION FS62R43VT2P	Lawrence	Tilled
	Robert Dorazio	228.8	32,234	Pioneer P1197	Fayette	No-Till
<b>Western Region Average</b>		<b>229.2</b>	<b>31,058</b>			
<b>Overall Average</b>		<b>260.2</b>	<b>32,299</b>			

2017 PENNSYLVANIA CORN CLUB

Production Region	Name	Yield (bu/ac)	Grain Moisture (%)	Plant Population	Percent Down	Percent Barren	Variety	Manure Source	Previous Crop	County	Tillage
<b>Central Region</b>											
	Leslie Bowman	279.1	23.6	33,919	5.3%	6.8%	Pioneer P1197AM	Poultry	Wheat/Soybeans	Franklin	No-Till
	Carl Shaffer	275.4	25.6	29,359	5.0%	0.9%	Pioneer P1316AM		Wheat	Columbia	No-Till
	Pinehurst Acres	274.4	26.6	33,628	0.0%	4.1%	Channel 217-92STXRIB		Tomatoes	Northumberland	No-Till
	Lyle Ocker	267.0	17.5	32,409	0.4%	4.4%	Hubner H4744RC2P		Soybeans	Franklin	No-Till
	Linda Shaffer	252.6	25.5	31,712	4.9%	2.2%	Pioneer P1316AM		Soybeans	Columbia	No-Till
	Eldon Ocker	232.2	26.4	34,325	3.7%	0.5%	Hubner H4744R2CP		Soybeans	Franklin	No-Till
	Walter Ocker	212.0	16.8	32,989	4.6%	1.2%	Hubner H5420RC3P	Pen pack	Soybeans	Franklin	No-Till
	Fritz McGrail	210.4	21.6	28,829	6.0%	0.5%	Seedway SW6630		Soybeans	Centre	No-Till
	Jay Arentz	208.2	30.2	30,840	2.0%	13.8%	Pioneer P1197AM	Poultry	Wheat	Adams	No-Till
	Wertz Brothers	207.4	23.5	27,356	8.9%	1.3%	Pioneer P1443AM		Wheat	Northumberland	No-Till
	Donald Truax	203.0	18.0	29,621	1.5%	1.2%	FS InVISION F55847		Wheat	Fulton	No-Till
<b>Central Region Total</b>		<b>238.3</b>	<b>23.2</b>	<b>31,362</b>	<b>3.9%</b>	<b>3.4%</b>					
<b>Northern Region</b>											
	Dick Snyder	256.0	23.0	33,048	0.0%	0.4%	DEKALB DKC62-08	Poultry	Soybean	Lycoming	Tilled
	Scott Snyder	192.1	25.0	33,222	0.9%	0.3%	Pioneer P1197AM	Poultry	Soybeans	Lycoming	Tilled
<b>Northern Region Total</b>		<b>224.1</b>	<b>24.0</b>	<b>33,135</b>	<b>0.4%</b>	<b>0.4%</b>					
<b>South Central Region</b>											
	Darren Grumbine	294.9	23.3	35,022	1.0%	2.0%	DEKALB DKC64-89	Layer	Wheat/Soybeans	Lebanon	No-Till
	Kristen Grumbine	292.0	21.6	34,151	2.0%	1.0%	Pioneer P1197AM	Layer	Wheat/ Soybeans	Lebanon	No-Till
	Linda Krall	287.8	18.5	33,625	5.2%	5.2%	Pioneer P0843AM	Poultry	Corn	Lebanon	Tilled
	Robert Buser	271.6	22.2	32,322	0.8%	1.3%	Pioneer P1197AMXT	Hog	Soybeans	York	No-Till
	Glen Krall	267.3	19.4				Pioneer P1197AMXT	Poultry	Wheat/Soybeans	Lebanon	Tilled
	Brian Kreider	265.4	22.0				Pioneer P1197AM	Beef	Soybeans	Lebanon	No-Till
	Patricia Buser	260.3	28.1	33,355	0.0%	1.5%	Pioneer P0339AM	Hog	Soybeans	York	No-Till
	Richard Kreider	259.0	20.6				Pioneer P1197AM	Beef	Corn	Lebanon	No-Till
	Merle Stoltzfus	258.7	24.6	33,890	4.4%	2.6%	Hubner H6624	Dairy	Wheat/Soybeans	Lancaster	No-Till
	Dylan Keller	253.5	17.5	32,670	5.3%	0.8%	Pioneer P1197AMX	Hog	Soybeans	York	No-Till
	Matthew Schantz	250.2	21.7	31,537	3.9%	1.1%	Pioneer P1197AM	Dairy	Corn	Berks	Tilled
	David Schantz	249.9	21.1	34,151	2.0%	0.5%	Pioneer P1197AM	Dairy	Corn	Berks	Tilled
	Ethan Buser	248.3	22.9	34,184	0.0%	0.0%	Pioneer P1197AMXT	Hog	Soybeans	York	No-Till
	Elvin Reiff	247.8	24.7	31,197	2.1%	1.1%	Hubner H4663RC2P	Dairy	Soybeans	Lancaster	No-Till
	Sam Conley	236.2	22.2	35,097	8.5%	0.0%	Hubner H14G153	Liquid Dairy	Corn	Lancaster	No-Till
	Jay Bomgardner	221.7	23.0	29,447	1.8%	0.0%	NK N66V3000GT	Heifer	Alfalfa	Lancaster	No-Till
<b>South Central Region Total</b>		<b>260.3</b>	<b>22.1</b>	<b>33,127</b>	<b>2.9%</b>	<b>1.3%</b>					
<b>Southeastern Region</b>											
	Tim Stewart	281.1	18.6	31,900			DEKALB DKC62-08		Soybeans	Bucks	No-Till
	Sam Stewart	272.7	18.7	30,250			DEKALB DKC62-08		Soybeans	Bucks	No-Till
	Shane Fulmer	272.2	25.1	37,026	1.4%	1.4%	Hubner H5663		Corn	Northampton	Tilled
	John Frederick	268.0	17.1	35,196	0.5%	1.5%	FS InVISION F561R61SS		Soybeans	Bucks	Tilled
	Erin Kramer	259.2	25.2	17,424	1.5%	0.0%	DEKALB DKC64-87	Poultry	Corn	Lehigh	No-Till
	Brian Fulmer	243.8	26.6	36,503	2.9%	0.7%	Hubner H6624		Corn	Northampton	Tilled
	Robert Rook	236.9	24.7	26,426	0.7%	4.0%	Pioneer P1316		Soybeans	Bucks	Tilled
<b>Southeastern Region Total</b>		<b>262.0</b>	<b>22.3</b>	<b>30,675</b>	<b>1.4%</b>	<b>1.5%</b>					
<b>Western Region</b>											
	Rick Telesz	229.5	18.3	29,882	2.6%	2.3%	FS InVISION F562R43VT2P	Liquid Dairy	Soybeans	Lawrence	Tilled
	Robert Dorazio	228.8	17.7	32,234	0.8%	0.5%	Pioneer P1197		Soybeans	Fayette	No-Till
	Richard Burd	205.5	19.4				Pioneer P506		Soybeans	Fayette	No-Till
<b>Western Region Total</b>		<b>221.3</b>	<b>18.5</b>	<b>31,058</b>	<b>1.7%</b>	<b>1.4%</b>					
<b>Grand Total</b>		<b>249.5</b>	<b>22.3</b>	<b>31,964</b>	<b>2.7%</b>	<b>2.0%</b>					

2017  
PENNSYLVANIA CORN CLUB

**Cultural Practice Summary**

Management factor	Entries	Bu/A	%H2O	Population	%Down	%Barren
<b>Manured Fields</b>						
No	15	244.3	22.3	31,740	3.0%	1.6%
Yes	24	252.8	22.2	32,113	2.6%	2.2%
<b>Previous Crop</b>						
Soybeans	19	244.0	21.3	31,947	2.2%	1.5%
Corn	8	257.3	22.6	32,195	3.6%	1.3%
Wheat/Soybeans	4	275.0	22.7	34,277	3.6%	3.8%
misc	2	248.0	24.8	31,537	0.9%	2.1%
<b>Tillage</b>						
No-Till	28	249.2	22.4	31,525	3.1%	2.1%
Tilled	11	250.3	21.8	33,062	2.0%	1.7%
<b>Average all club members</b>		249.5	22.3	31,964	2.7%	2.0%

**Average Nitrogen (lb/acre) from fertilizer:** 191  
(does not include manure and previous crop credits)

**Percentage of fields receiving a sidedress N application:** 77%

**Average sidedress N application (lb/A):** 105

**Percentage of fields receiving a fungicide application:** 62%

**Percentage of fields receiving an in-row granular or liquid insecticide**

<u>Previous crop</u>	
Corn	50%
Soybeans	37%

**Percentage of fields receiving manure:** 62%

**Total corn acres grown by participants:** 14,621

2017 Pennsylvania Corn Club

