

2017 F.I.R.S.T. CORN REPORT - PA., MD.

2017 Corn Grain Top 30 Harvest Report

Pennsylvania Central [PACE] NORTHUMBERLAND
Scott Shoop, Northumberland County, PA 17847



Test by: Mid-Atlantic Independent Tech. Svcs., Mount Joy, PA

Table with crop/soil/pest management details, All-Season Test 99 - 109 Day CRM, Top 30 of 30 For Gross Income (Sorted by Yield), and average of (3) Replications.

Main table listing 30 corn hybrids with columns for Company/Brand, Product/Brand, Technol., RM, Yield, Moisture, Lodging, Stand, Gross Income, and Rank.

Averages = 247.1, 22.9, 2, 34.2, 915; LSD (0.10) = 11.3, 1.0, 2; LSD (0.25) = 5.9, 0.5, 1; C.V. = 4.3. Prevs. years average yield, 195.5 bu/a, 12 yrs.

Yield & Income Factors: Base Moisture = 15.0% Shrink = 1.3 Drying = \$0.025 Prices: GMO = \$3.90; non-GMO = \$3.90

Test Comments: Wet spring delayed planting but corn looked great coming out of the ground. Most of the summer had adequate rainfall except for a time in late August, early September. Disease was not an issue and corn was standing at harvest time. Overall rating of the plot is 9 out of 10. (10=best)

See last page for abbreviation descriptions. Dark colored row identifies the check product found in early- and full-season tests. Bold yields are significantly above test average by LSD(0.10). Italicized brands exceed the grain moisture limit for this test. ns = column values not significantly different.

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2017 Corn Grain Top 30 Harvest Report

Delaware Maryland North [DMNO] WESTMINSTER
Doug Armagost, Carroll County, MD 21155



Test by: Mid-Atlantic Independent Tech. Svcs., Mount Joy, PA

Table with crop/soil/pest management details, All-Season Test 105 - 116 Day CRM, Top 30 of 42 For Gross Income (Sorted by Yield), and average of (3) Replications.

Main table listing 30 corn hybrids with columns for Company/Brand, Product/Brand, Technol., RM, Yield, Moisture, Lodging, Stand, Gross Income, and Rank.

Averages = 232.1, 17.2, 8, 34.2, 878; LSD (0.10) = 12.8, 0.8, 8; LSD (0.25) = 6.7, 0.4, 4; C.V. = 5.3. Prevs. years average yield, 185.4 bu/a, 12 yrs.

Yield & Income Factors: Base Moisture = 15.0% Shrink = 1.3 Drying = \$0.025 Prices: GMO = \$3.84; non-GMO = \$3.84

Test Comments: From early spring through harvest, the season was wet. Corn looked great all season long but was late to harvest because of lack of mid to late summer heat and wet fields. Corn was still standing good at harvest with mostly tops going down. Overall rating of the plot is 8 out of 10. (10=best)

See last page for abbreviation descriptions. Dark colored row identifies the check product found in early- and full-season tests. Bold yields are significantly above test average by LSD(0.10). Italicized brands exceed the grain moisture limit for this test. ns = column values not significantly different.

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2017 Corn Grain Top 30 Harvest Report

Delaware Maryland North [DMNO] CHESTERTOWN
Tom Mason, Kent County, MD 21620



Test by: Mid-Atlantic Independent Tech. Svcs., Mount Joy, PA

Table with crop/soil/pest management details, All-Season Test 105 - 116 Day CRM, Top 30 of 42 For Gross Income (Sorted by Yield), and average of (3) Replications.

Main table listing 30 corn hybrids with columns for Company/Brand, Product/Brand, Technol., RM, Yield, Moisture, Lodging, Stand, Gross Income, and Rank.

Averages = 232.5, 16.7, 24, 35.8, 896; LSD (0.10) = 13.8, 0.8, 6; LSD (0.25) = 7.2, 0.4, 3; C.V. = 5.6. Prevs. years average yield, 169.6 bu/a, 8 yrs.

Yield & Income Factors: Base Moisture = 15.0% Shrink = 1.3 Drying = \$0.025 Prices: GMO = \$3.90; non-GMO = \$3.90

Test Comments: Corn looked great all season long. Good emergence and plenty of rainfall and lack of excessive heat was making for a great yield. Few days before harvest, a strong storm took a lot of hybrids down to their knees. Harvest went better than expected with a majority of corn going through the combine. Would have rated this plot a 9 out of 10 but due to this storm it will get a 7. (10=Best)

See last page for abbreviation descriptions. Dark colored row identifies the check product found in early- and full-season tests. Bold yields are significantly above test average by LSD(0.10). Italicized brands exceed the grain moisture limit for this test. ns = column values not significantly different.

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2017 Corn Grain Top 30 Harvest Report

Delaware Maryland North [DMNO] WARWICK
Jonathan Quinn, Cecil County, MD 21912



Test by: Mid-Atlantic Independent Tech. Svcs., Mount Joy, PA

Table with crop/soil/pest management details, All-Season Test 105 - 116 Day CRM, Top 30 of 42 For Gross Income (Sorted by Yield), and average of (3) Replications.

Main table listing 30 corn hybrids with columns for Company/Brand, Product/Brand, Technol., RM, Yield, Moisture, Lodging, Stand, Gross Income, and Rank.

Averages = 247.6, 17.6, 12, 36.2, 954; LSD (0.10) = 13.3, 0.5, 14; LSD (0.25) = 6.9, 0.3, 7; C.V. = 5.0. Prevs. years average yield, 168.6 bu/a, 15 yrs.

Yield & Income Factors: Base Moisture = 15.0% Shrink = 1.3 Drying = \$0.025 Prices: GMO = \$3.92; non-GMO = \$3.92

Test Comments: Corn looked great all growing season long. Good soil moisture, timely rains and lack of excessive heat kept corn yield high. Late season storm also gave good stalk strength ratings, main disease was anthracnose. Overall rating of the plot is 8 out of 10. (10=best)

See last page for abbreviation descriptions. Dark colored row identifies the check product found in early- and full-season tests. Bold yields are significantly above test average by LSD(0.10). Italicized brands exceed the grain moisture limit for this test. ns = column values not significantly different.

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Penn State/PDMP Corn Silage Hybrid Testing Program 2017

BMR (110-116 day RM) silage hybrids in south central PA

Chester County

Notes: SEE BACKGROUND TAB

Cooperator: Walmoore Holsteins



PennState Extension & PDMP
College of Agricultural Sciences



Brand	Hybrid	Traits*	Dry Yield		CP	NDF	Lignin	Starch	Ash	Fat ²	NEL	NDFD - wet chem.			uNDF	Pop.	Relative
			Matter %**	Tons/Acre***								30hr %NDF	120hr %NDF	240hr %NDF			
Mycogen Seeds	BMR12B75	31	29.0	17.5	7.3	44.0	2.4	27.2	2.9	2.1	0.76	63.8	75.3	77.7	22.3	33,500	112
Mycogen Seeds	BMR15B15	31	28.5	18.3	7.3	48.5	2.4	21.6	3.3	1.7	0.73	65.2	77.9	80.4	19.6	30,833	115
Mycogen Seeds	BMR10B27	31	27.8	16.8	7.2	40.0	2.2	31.5	3.1	2.1	0.77	67.3	75.9	78.2	21.8	32,833	110
Mycogen Seeds	BMR14B96	31	26.9	16.4	8.2	39.8	1.7	27.7	3.4	1.9	0.78	71.4	80.3	82.7	17.3	31,333	114
Overall Mean			28.1	17.2	7.5	43.1	2.1	27.0	3.2	1.9	0.76	66.9	77.4	79.8	20.3		
LSD(0.1)			NS¹	NS¹	0.3	5.7	0.3	NS¹	NS¹	0.3	0.03	1.5	1.9	1.9	1.9		
CV%			7.1	14.9	2.8	8.3	10.0	16.1	7.0	11.0	2.67	1.4	1.5	1.5	5.8		

* See tab " Trait Key" for individual trait designation.

**Tables are sorted by dry matter. Avoid making comparisons with hybrids that differ significantly in dry matter.

*** Silage yields are expressed on a 35 percent DM basis; all other parameters are expressed on a dry matter basis. CP=crude protein, NDF= neutral detergent fiber, NEL=net energy for lactation, and NDFD=neutral detergent fiber digestibility.

¹ - NS = Not Significant, ² - Fat = Total Fatty Acids

Prepared by Greg Roth, Jessica Williamson, Hanna Wells, James Breining (Department of Plant Science).

Penn State/PDMP Corn Silage Hybrid Testing Program 2017

BMR (110-116 day RM) silage hybrids in south central PA

Lancaster County location

Notes: SEE BACKGROUND TAB

Cooperator: Meadow Vista Dairy



PennState Extension & PDMP
College of Agricultural Sciences



Brand	Hybrid	Traits*	Dry Yield		CP	NDF	Lignin	Starch	Ash	Fat ²	NEL	NDFD- wet chem.			uNDF	Pop.	Relative
			Matter %**	Tons/Acre***								30hr %NDF	120hr %NDF	240hr %NDF			
Mycogen Seeds	BMR10B27	31	36.9	20.6	7.6	37.3	2.6	40	2.8	2.8	0.78	60.5	73.2	75.4	24.6	32,667	110
Mycogen Seeds	BMR14B96	31	36.2	18.8	8.6	39.7	2.3	33.7	3.2	2.3	0.77	65.2	80.5	83.0	17.0	32,833	114
Mycogen Seeds	BMR12B75	31	32.9	20.3	8.3	44.4	3.1	31.4	2.8	2.7	0.75	59.0	72.4	74.7	25.3	34,000	112
Mycogen Seeds	BMR15B15	31	31.2	23.9	7.7	45.4	2.7	27.7	3.2	1.9	0.73	61.2	78.1	80.6	19.4	32,833	115
Overall Mean			34.3	20.9	8.1	41.7	2.7	33.2	3.0	2.4	0.76	61.5	76.0	78.4	21.6		
LSD(0.1)			NS¹	NS¹	NS¹	NS¹	0.6	7.9	0.3	0.4	NS¹	3.4	5.9	6.1	6.1		
CV%			9.2	16.6	7.3	11.6	14.3	15.0	6.9	10.9	3.85	3.5	4.9	4.9	17.8		

* See tab " Trait Key" for individual trait designation.

**Tables are sorted by dry matter. Avoid making comparisons with hybrids that differ significantly in dry matter.

*** Silage yields are expressed on a 35 percent DM basis; all other parameters are expressed on a dry matter basis. CP=crude protein, NDF= neutral detergent fiber, NEL=net energy for lactation, and NDFD=neutral detergent fiber digestibility.

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Penn State/PDMP Corn Silage Hybrid Testing Program 2017

BMR (110-116 day RM) silage hybrids in south central PA

Lancaster County location

Notes: SEE BACKGROUND TAB

Cooperator: Landisville Research Farm



PennState Extension & PDMP
College of Agricultural Sciences



Brand	Hybrid	Traits*	Dry Yield		CP	NDF	Lignin	Starch	Ash	Fat ²	NEL	NDFD- wet chem.			uNDF	Pop.	Relative
			Matter %**	Tons/Acre***								30hr %NDF	120hr %NDF	240hr %NDF			
Mycogen Seeds	BMR10B27	31	37.8	17.6	7.1	33.9	2.1	43.1	2.9	2.0	0.81	64.9	72.9	75.2	24.8	32,667	110
Mycogen Seeds	BMR14B96	31	34.1	16.3	7.8	39.3	2.1	34.3	2.5	2.4	0.79	68.6	75.3	77.7	22.3	34,000	114
Mycogen Seeds	BMR12B75	31	34.1	15.8	7.5	39.3	2.6	37.7	2.8	1.9	0.78	62.1	68.9	71.3	28.7	32,833	112
Mycogen Seeds	BMR15B15	31	30.0	17.4	6.5	47.2	2.5	26.9	1.9	2.5	0.74	64.2	76.0	78.4	21.6	33,167	115
Overall Mean			34.0	16.8	7.2	39.9	2.3	35.5	2.5	2.2	0.78	65.0	73.3	75.6	24.4		
LSD(0.1)			4.5	NS¹	0.4	4.1	0.4	5.2	0.3	0.4	0.02	3.2	2.2	2.2	2.2		
CV%			8.3	13.5	3.8	6.5	10.0	9.2	6.4	12.7	1.77	3.1	1.8	1.8	5.6		

* See tab " Trait Key" for individual trait designation.

**Tables are sorted by dry matter. Avoid making comparisons with hybrids that differ significantly in dry matter.

*** Silage yields are expressed on a 35 percent DM basis; all other parameters are expressed on a dry matter basis. CP=crude protein, NDF= neutral detergent fiber, NEL=net energy for lactation, and NDFD=neutral detergent fiber digestibility.

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