



UNIVERSITY OF
DELAWARE.

Delaware Small Grain Variety Trials 2023

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Acknowledgments

Thank you to all the companies who have supported and participated in the 2022-2023 University of Delaware Small Grain Variety Trials.

We are indebted and extend appreciation to the following cooperators who generously provided land and support for our off-site locations.
They are Craig Murray of Murray Bros. Farm, Rob Emerson of Emerson Farms, and Mark Davis of Davis Farms.

I would like to personally thank Buddy Willey, George Petitgout, Ward Harris, Kyler Lecates, Chad Messick, Justin Jameson, and Brian Hearn of our Carvel Farm Staff for their assistance in planting, harvesting, and managing the trials. These trials would not be possible without their efforts.

Methodology

All trials were conducted in a randomized, complete block design with four total replications. The final plot length of all trials was 12 ft. More experimental details such as population, plot width, planting/harvest dates, and tillage or cultural practices can be found in the following table. Temperature and rainfall information for the growing season can be accessed at the nearest test locations from DEOS <http://www.deos.udel.edu/>

C.V. and L.S.D.

The coefficient of variation (C.V.) is a measurement of the amount of uncontrollable variability due to differences in the soil, weather, fertility, etc. The acceptable CV level is dependent on the field of the research. Medicine and pharmaceutical research have stricter CV ranges than research in agricultural sciences due to more control over outside variables. The American Association for Clinical Chemistry in *Clinical Chemistry, Volume 35, Issue 4* defines for agricultural studies that CV<10 is very good, 10-20 is good, 20-30 is acceptable. Please note that the C.V. is expected to be higher at dryland locations.

The least significant difference (L.S.D.; computed at a 5% level of probability) is a tool to determine if two average values are significantly different. The difference between two varieties must exceed the L.S.D. value to be considered significantly different from one another.

HOW TO BEST USE SMALL GRAIN VARIETY TRIAL INFORMATION

Information presented in this summary may be useful in selecting wheat and barley varieties for production in Delaware. To maximize the usefulness of this information, follow these suggestions:

1. Select the test location that best represents your production location. Generally, varieties are adaptable across Delaware but certain soil or climatic conditions, cultural practices, or insect/disease problems may limit the choice.
2. Multiple-year average (means) across the greatest number of years are the best predictors of performance. Refer to previous test reports for information to evaluate wheat and barley varieties which are of interest to you. Comparison between your selected variety and the grand mean for your closest test location will be helpful in identifying superior varieties for your area.
3. Check the grand mean for the long-term averages and compare with your own production experience. If your yields have been consistently below these grand mean levels, you should evaluate each part of your management system for potential areas of improvement.

2023 Delaware Wheat Variety Trial Entries

<u>Brand</u>	<u>Variety</u>	<u>Seed Treatment</u>
AgriMaxx Wheat	AgriMAXX 516	Prime ST
AgriMaxx Wheat	AgriMAXX 514	Prime ST
AgriMaxx Wheat	AgriMAXX 535	Prime ST
AgriMaxx Wheat	AgriMAXX 513	Prime ST
AgriMaxx Wheat	AgriMAXX 525	Prime ST
AgriMaxx Wheat	AgriMAXX 503	Prime ST
AgriMaxx Wheat	AgriMAXX 505	Prime ST
Dyna-Gro	9481	Foothold Virock, Awaken ST
Dyna-Gro	9422	Foothold Virock, Awaken ST
Dyna-Gro	9172	Foothold Virock, Awaken ST
Dyna-Gro	9151	Foothold Virock, Awaken ST
Dyna-Gro	9290	Foothold Virock, Awaken ST
Dyna-Gro	9393	Foothold Virock, Awaken ST
Elite Pro Wheat	EP1909	Vibrance Extreme
Elite Pro Wheat	EP2202	Vibrance Extreme
EPIX SEED	EPIX 1375	Vibrance EX
EPIX SEED	EPIX 1365	Vibrance EX
EPIX SEED	EPIX 2392	Vibrance EX
EPIX SEED	EPIX 4372	Vibrance EX
EPIX SEED	EPIX 2356	Vibrance EX
FS Inspire Wheat	Inspire FS 743	Dividend Extreme
FS Inspire Wheat	Inspire FS 745	Dividend Extreme
FS Inspire Wheat	Inspire FS 597	Dividend Extreme
FS Inspire Wheat	Inspire FS 891	Dividend Extreme
MBX	MBX 176	Helena Seed Shield
MBX	MBX 127	Helena Seed Shield

MBX	MBX 120	Helena Seed Shield
MBX	MBX 245	Helena Seed Shield
MBX	MBX 223	Helena Seed Shield
MBX	MBX 230	Vibrance EX, Cruiser Maxx
Mid-Atlantic Seeds	MAS 67	MAS PROSHIELD
Mid-Atlantic Seeds	MAS 133	MAS PROSHIELD
Mid-Atlantic Seeds	MAS 178	MAS PROSHIELD
Mid-Atlantic Seeds	MAS 143	MAS PROSHIELD
Mid-Atlantic Seeds	MAS 190	MAS PROSHIELD
Mid-Atlantic Seeds	MAS 155	MAS PROSHIELD
Mid-Atlantic Seeds	MAS 139	MAS PROSHIELD
Mid-Atlantic Seeds	MAS 2	MAS PROSHIELD
Mid-Atlantic Seeds	MAS 86	MAS PROSHIELD
Mid-Atlantic Seeds	MAS 106	MAS PROSHIELD
Mid-Atlantic Seeds	MAS 316	MAS PROSHIELD
Mid-Atlantic Seeds	MAS 189	MAS PROSHIELD
Mid-Atlantic Seeds	MAS 164	MAS PROSHIELD
Revere Seed	Revere 2148	Radius Premium
Revere Seed	Revere 2169	Radius Premium
Revere Seed	Revere 2277	Radius Premium
Revere Seed	Revere 2347	Radius Premium
Southern Harvest	SH 7200	Vibrance EX+ Siper Symcoat+ Senator 600FS
Southern Harvest	SH 9520	Vibrance EX+ Siper Symcoat+ Senator 600FS
Southern Harvest	SH 4222	Vibrance EX+ Siper Symcoat+ Senator 600FS
Southern Harvest	SH 5123	Vibrance EX+ Siper Symcoat+ Senator 600FS
USG	3673	ipconazole, metalaxyl, imidicloprid
USG	3363	ipconazole, metalaxyl, imidicloprid
USG	3463	ipconazole, metalaxyl, imidicloprid

USG	3472	ipconazole, metalaxyl, imidicloprid
USG	3783	ipconazole, metalaxyl, imidicloprid
USG	3352	ipconazole, metalaxyl, imidicloprid
USG	3000	ipconazole, metalaxyl, imidicloprid
USG	3904	ipconazole, metalaxyl, imidicloprid
USG	3234	ipconazole, metalaxyl, imidicloprid
Virginia Crop Improvement Association	14VDH-HRW02-029	Foothold

Wheat		
	Carvel Rec - Georgetown	Emerson Farms - Middletown
Number of Entries	61	61
Target Population	1.5 million seeds/acre	1.5 million seeds/acre
Plot Length	12	12
Plot Width	5.625	5.625
Spacing	9 rows, 7.5 inch (drilled)	9 rows, 7.5 inch (drilled)
Planter	Almaco Research Plot Planter	Almaco Research Plot Planter
Harvester	Almaco R1 combine	Almaco R1 combine
Grain Analysis	Harvest Master H2 Classic	Harvest Master H2 Classic
Number of Replications	4	4
Planting Date	10/19/2022	10/20/2022
Harvest Date	6/27/2023	7/6/2023
Soil Type	Ingleside Loamy Sand	Reybold- Queponco complex- Silt Loam
Previous Crop	wheat/ covercrop mix	wheat
Tillage Practices	turbo tilled	conventional/disc
Fertilization	350lb/a 7-0-40 10/12/2022 (N-Sul) 1st app. 60 pounds 2/21/2023 2nd app. 60 pounds 3/16/2023	(N-Sul) 1st app. 60 pounds 2/22/2023 2nd app. 60 pounds 3/17/2023
Herbicide	Harmony SG 9 oz/acre on 3/16/2023	Harmony SG 9 oz/acre on 3/17/2023
Insecticide/Fungicide	Miravis Neo 17 oz/acre, Warrior 2 oz/acre on 5/2/2023	none
Irrigation	Linear	dryland

Wheat		
	Murray Brothers Farm - Selbyville	Davis Farms - Kent
Number of Entries	61	61
Target Population	1.5 million seeds/acre	1.5 million seeds/acre
Plot Length	12	12
Plot Width	5.625	5.625
Spacing	9 rows, 7.5 inch (drilled)	9 rows, 7.5 inch (drilled)
Planter	Almaco Research Plot Planter	Almaco Research Plot Planter
Harvester	Almaco R1 combine	Almaco R1 combine
Grain Analysis	Harvest Master H2 Classic	Harvest Master H2 Classic
Number of Replications	4	4
Planting Date	10/29/2022	11/2/2022
Harvest Date	6/29/2023	6/30/2023
Soil Type	Mullica-Berryland Complex	Pineyneck Loam
Previous Crop	corn	corn
Tillage Practices	conventional/disc	conventional/disc
Fertilization	(N-Sul) 1st app. 60 pounds 2/21/2023 2nd app. 60 pounds 3/17/2023	(N-Sul) 1st app. 60 pounds 2/22/2023 2nd app. 60 pounds 3/18/2023
Herbicide	Harmony SG 9 oz/acre on 3/17/2023	Harmony SG 9 oz/acre on 3/18/2023
Insecticide/Fungicide	none	none
Irrigation	dryland	Center Pivot

Barley

	Carvel Rec - Georgetown
Number of Entries	18
Target Population	1.5 million seeds/acre
Plot Length	12
Plot Width	5.625
Spacing	9 rows, 7.5 inch (drilled)
Planter	Almaco Research Plot Planter
Harvester	Almaco R1 combine
Grain Analysis	Harvest Master H2 Classic
Number of Replications	4
Planting Date	10/19/2022
Harvest Date	6/9/2023
Soil Type	Ingleside Loamy sand
Previous Crop	Cover Crop Mix
Tillage Practices	turbo tilled
Fertilization	350lb/a 7-0-40 10/12/2022 (N-Sul) 1st app. 60 pounds 2/21/2023 2nd app. 60 pounds 3/16/2023
Herbicide	Harmony SG 9 oz/acre on 3/16/2023
Insecticide/Fungicide	Miravis Neo 17 oz/acre, Warrior 2 oz/acre on 5/2/2023
Irrigation	Linear (Irrigated Twice)

2023 Georgetown Wheat Variety Trial

<u>Brand</u>	<u>Rank</u>	<u>Variety</u>	<u>Yield (Bu)</u>	<u>Moisture (Harvest)</u>	<u>Test Weight</u>
Mid-Atlantic Seeds	1	MAS 316	119.1	13.0	55.9
USG	2	3904	118.7	13.7	55.9
Mid-Atlantic Seeds	3	MAS 86	117.7	14.1	55.0
Southern Harvest	4	SH 7200	116.3	13.5	55.7
Mid-Atlantic Seeds	5	MAS 143	114.0	13.9	56.8
Mid-Atlantic Seeds	6	MAS 155	113.2	13.9	56.4
Mid-Atlantic Seeds	7	MAS 2	111.7	14.4	57.3
USG	8	3472	110.7	13.6	57.2
Southern Harvest	9	SH 9520	110.5	14.4	56.8
Mid-Atlantic Seeds	10	MAS 178	109.9	13.7	54.6
AgriMaxx	11	AgriMAXX 514	107.8	10.9	55.3
USG	12	3352	107.5	14.2	56.9
Dyna Gro	13	9393	106.9	13.8	55.9
Dyna Gro	14	9172	106.7	13.7	56.3
Mid-Atlantic Seeds	15	MAS 139	106.4	13.6	56.0
MBX	16	MBX 127	104.7	14.1	56.4
USG	17	3234	104.7	13.9	56.0
Dyna Gro	18	9422	104.5	14.1	55.5
Southern Harvest	19	SH 5123	104.2	13.5	54.5
AgriMaxx	20	AgriMAXX 525	104.0	14.2	56.3
MBX	21	MBX 245	103.8	14.1	54.9
Mid-Atlantic Seeds	22	MAS 190	103.7	14.7	56.6
AgriMaxx	23	AgriMAXX 516	103.3	14.0	56.5
USG	24	3363	103.1	13.8	57.4
Dyna Gro	25	9151	102.9	13.5	56.5
AgriMaxx	26	AgriMAXX 503	102.3	13.8	55.1

InSPIRE	27	Inspire FS 745	102.1	13.8	56.2
Revere Seed	28	Revere 2148	101.9	14.2	55.3
Revere Seed	29	Revere 2169	101.5	13.9	56.0
USG	30	3783	100.9	14.2	56.0
Mid-Atlantic Seeds	31	MAS 133	100.6	13.7	55.3
EPIX Seed	32	EPIX 4372	100.5	13.5	56.7
Mid-Atlantic Seeds	33	MAS 189	100.1	13.1	56.6
InSPIRE	34	Inspire FS 743	99.9	13.7	57.3
USG	35	3463	99.7	13.7	55.5
Mid-Atlantic Seeds	36	MAS 106	99.3	13.3	56.3
AgriMaxx	37	AgriMAXX 513	98.0	13.3	55.1
Revere Seed	38	Revere 2277	97.7	14.1	56.2
EPIX Seed	39	EPIX 1365	96.5	13.3	54.6
AgriMaxx	40	AgriMAXX 535	96.3	13.9	56.8
EPIX Seed	41	EPIX 1375	96.2	14.1	54.5
Mid-Atlantic Seeds	42	MAS 67	95.9	13.6	55.6
Dyna Gro	43	9481	95.7	13.9	54.5
Revere Seed	44	Revere 2347	95.6	13.7	56.4
InSPIRE	45	Inspire FS 891	95.3	13.6	56.6
USG	46	3673	94.8	13.9	54.5
EPIX Seed	47	EPIX 2356	94.5	14.2	56.6
MBX	48	MBX 120	93.0	14.2	57.3
Dyna Gro	49	9290	92.9	13.6	55.6
Southern Harvest	50	SH 4222	91.7	14.4	56.6
Mid-Atlantic Seeds	51	MAS 164	91.3	13.7	54.6
AgriMaxx	52	AgriMAXX 505	90.2	13.3	56.2
VCIA	53	14VDH-HRW02-029	88.1	13.7	56.5
MBX	54	MBX 223	88.0	14.3	55.9

USG	55	3000	86.7	14.2	55.8
Elite Pro	56	EP1909	86.3	14.0	56.7
MBX	57	MBX 176	85.0	13.7	55.3
InSPIRE	58	Inspire FS 597	82.9	13.9	55.5
EPIX Seed	59	EPIX 2392	82.1	13.8	56.8
MBX	60	MBX 230	80.8	14.0	56.5
Elite Pro	61	EP2202	80.8	14.2	54.6

Bolded varieties do not statistically differ from top yielding variety

LSD P=.05

14.45

All yield data adjusted to 13.5% moisture

CV

9.35

Mean

100

2023 Kent Wheat Variety Trial

<u>Brand</u>	<u>Rank</u>	<u>Variety</u>	<u>Yield (Bu)</u>	<u>Moisture (Harvest)</u>	<u>Test Weight</u>
AgriMaxx	1	AgriMAXX 514	127.9	14.2	58.8
Mid-Atlantic Seeds	2	MAS 86	127.4	14.0	56.8
Dyna Gro	3	9422	122.5	13.2	57.8
USG	4	3904	121.0	13.1	57.4
AgriMaxx	5	AgriMAXX 503	119.1	13.9	57.4
Southern Harvest	6	SH 5123	118.3	14.1	55.8
InSPIRE	7	Inspire FS 745	117.9	14.1	58.3
Mid-Atlantic Seeds	8	MAS 133	117.6	13.8	57.3
Mid-Atlantic Seeds	9	MAS 155	115.3	13.4	57.1
EPIX Seed	10	1375	114.5	13.6	56.9
USG	11	3673	114.2	13.4	54.6
InSPIRE	12	Inspire FS 597	113.9	13.9	58.0
Mid-Atlantic Seeds	13	MAS 139	113.0	13.6	57.8
Dyna Gro	14	9290	112.0	13.5	57.2
EPIX Seed	15	2392	110.6	13.6	59.4
AgriMaxx	16	AgriMAXX 505	110.5	13.3	59.8
MBX	17	MBX 127	110.1	13.3	59.4
MBX	18	MBX 176	109.9	13.2	56.2
EPIX Seed	19	2356	109.8	13.6	58.6
USG	20	3363	108.9	13.0	60.0
MBX	21	MBX 223	108.7	13.1	58.7
Mid-Atlantic Seeds	22	MAS 106	107.9	13.5	57.3
EPIX Seed	23	1365	107.4	13.9	57.9
Revere Seed	24	Revere 2277	106.9	13.9	59.4
Mid-Atlantic Seeds	25	MAS 164	106.5	13.3	56.5
Elite Pro	26	EP2202	106.0	13.3	58.1

Dyna Gro	27	9393	105.9	13.9	58.0
EPIX Seed	28	4372	105.8	13.1	59.7
Elite Pro	29	EP1909	104.6	13.9	58.4
Mid-Atlantic Seeds	30	MAS 178	104.1	13.4	55.2
AgriMaxx	31	AgriMAXX 525	103.8	14.6	59.5
Mid-Atlantic Seeds	32	MAS 2	103.8	14.3	58.9
Mid-Atlantic Seeds	33	MAS 316	103.2	12.8	57.9
Revere Seed	34	Revere 2148	102.8	14.1	58.1
AgriMaxx	35	AgriMAXX 516	102.6	14.2	58.8
AgriMaxx	36	AgriMAXX 535	102.5	12.8	59.9
Dyna Gro	37	9151	102.1	13.1	58.3
MBX	38	MBX 120	101.9	13.9	59.4
AgriMaxx	39	AgriMAXX 513	101.9	13.2	57.2
Mid-Atlantic Seeds	40	MAS 190	101.5	13.6	58.6
Revere Seed	41	Revere 2169	100.6	13.5	59.5
Mid-Atlantic Seeds	42	MAS 143	97.6	13.4	60.3
Southern Harvest	43	SH 7200	97.5	14.0	57.3
VCIA	44	14VDH-HRW02-029	95.6	13.0	59.0
Dyna Gro	45	9481	95.4	13.4	55.7
Mid-Atlantic Seeds	46	MAS 189	95.3	13.2	58.4
USG	47	3234	94.5	13.6	58.9
MBX	48	MBX 230	94.4	13.7	59.6
InSPIRE	49	Inspire FS 891	94.4	13.5	58.2
USG	50	3472	94.1	13.5	59.7
USG	51	3000	94.0	13.9	56.2
USG	52	3352	93.1	13.6	59.4
Southern Harvest	53	SH 4222	92.8	13.7	60.0
Dyna Gro	54	9172	92.4	14.0	59.5

Revere Seed	55	Revere 2347	91.3	13.1	60.2
InSPIRE	56	Inspire FS 743	91.1	13.3	59.8
Southern Harvest	57	SH 9520	90.5	13.9	59.9
Mid-Atlantic Seeds	58	MAS 67	90.3	13.1	53.5
MBX	59	MBX 245	90.0	14.0	58.1
USG	60	3783	85.9	13.8	58.1
USG	61	3463	75.8	14.0	58.6

Bolded varieties do not statistically differ from top yielding variety

LSD P=.05

20.15

All yield data adjusted to 13.5% moisture

CV

9.81

Mean

104.1

2023 Selbyville Wheat Variety Trial

<u>Brand</u>	<u>Rank</u>	<u>Variety</u>	<u>Yield (Bu)</u>	<u>Moisture (Harvest)</u>	<u>Test Weight</u>
Revere Seed	1	Revere 2148	87.9	13.4	55.6
Revere Seed	2	Revere 2347	87.7	14.0	56.0
Dyna Gro	3	9393	85.9	14.4	54.7
USG	4	3904	85.0	13.8	54.6
AgriMaxx	5	AgriMAXX 516	83.9	14.2	55.1
USG	6	3363	82.4	14.2	56.5
Dyna Gro	7	9481	82.3	13.9	54.4
Dyna Gro	8	9172	81.4	14.1	55.0
Elite Pro	9	EP1909	80.9	14.1	55.5
Mid-Atlantic Seeds	10	MAS 190	80.0	14.4	55.4
Southern Harvest	11	SH 5123	79.9	14.8	54.3
AgriMaxx	12	AgriMAXX 513	79.6	13.4	54.1
Mid-Atlantic Seeds	13	MAS 133	79.6	13.9	54.6
Mid-Atlantic Seeds	14	MAS 86	79.3	14.5	54.5
InSPIRE	15	Inspire FS 745	79.3	14.1	54.9
Mid-Atlantic Seeds	16	MAS 316	79.1	13.8	54.1
Mid-Atlantic Seeds	17	MAS 139	78.8	14.1	54.4
MBX	18	MBX 230	78.6	14.2	55.9
Mid-Atlantic Seeds	19	MAS 67	78.5	13.5	55.4
MBX	20	MBX 127	78.4	14.6	55.1
AgriMaxx	21	AgriMAXX 514	78.4	14.8	55.7
Mid-Atlantic Seeds	22	MAS 178	77.9	14.0	55.6
MBX	23	MBX 223	77.5	14.4	54.8
EPIX Seed	24	2392	77.3	14.3	56.0
USG	25	3352	77.0	15.0	55.9
Dyna Gro	26	9151	77.0	13.9	55.2

Elite Pro	27	EP2202	77.0	14.5	54.2
EPIX Seed	28	1365	76.8	14.3	55.0
USG	29	3673	76.6	14.7	53.9
MBX	30	MBX 120	76.5	14.4	56.4
InSPIRE	31	Inspire FS 743	76.2	14.3	56.5
EPIX Seed	32	4372	75.9	14.1	55.2
Revere Seed	33	Revere 2277	75.2	14.8	55.7
MBX	34	MBX 176	75.0	13.4	54.6
USG	35	3783	74.4	14.1	54.6
Dyna Gro	36	9422	74.4	14.4	54.7
Mid-Atlantic Seeds	37	MAS 189	74.4	13.7	56.4
Revere Seed	38	Revere 2169	74.1	14.0	54.7
Mid-Atlantic Seeds	39	MAS 143	74.0	14.2	55.5
USG	40	3000	73.7	14.7	54.2
AgriMaxx	41	AgriMAXX 505	73.5	13.4	54.8
Southern Harvest	42	SH 9520	73.2	14.9	56.2
Southern Harvest	43	SH 4222	73.2	14.4	56.0
Southern Harvest	44	SH 7200	73.1	14.9	54.1
AgriMaxx	45	AgriMAXX 525	72.3	14.8	55.8
InSPIRE	46	Inspire FS 597	72.1	14.2	54.8
USG	47	3234	71.8	15.6	56.4
AgriMaxx	48	AgriMAXX 535	71.6	14.3	57.7
Dyna Gro	49	9290	71.4	14.3	55.0
Mid-Atlantic Seeds	50	MAS 155	71.4	14.4	54.6
VCIA	51	14VDH-HRW02-029	71.4	13.4	57.0
USG	52	3463	70.7	14.0	55.3
USG	53	3472	70.6	14.3	55.2
Mid-Atlantic Seeds	54	MAS 164	68.1	13.9	55.8

InSPIRE	55	Inspire FS 891	67.1	13.9	55.5
Mid-Atlantic Seeds	56	MAS 106	66.7	13.5	55.6
EPIX Seed	57	2356	65.1	14.9	56.3
MBX	58	MBX 245	64.3	14.6	55.1
Mid-Atlantic Seeds	59	MAS 2	60.1	15.0	56.4
EPIX Seed	60	1375	58.8	14.8	54.5
AgriMaxx	61	AgriMAXX 503	55.6	14.9	55.4

Bolded varieties do not statistically differ from top yielding variety LSD P=.05 12.72
 All yield data adjusted to 13.5% moisture CV 10.04
 Awnless Variety performance was significantly affected by deer damage at this location Mean 75.2

2023 Middletown Wheat Variety Trial

<u>Brand</u>	<u>Rank</u>	<u>Variety</u>	<u>Yield (Bu)</u>	<u>Moisture (Harvest)</u>	<u>Test Weight</u>
USG	1	3673	133.4	14.4	53.3
MBX	2	MBX 245	131.0	14.5	55.6
Mid-Atlantic Seeds	3	MAS 155	128.6	14.2	55.7
USG	4	3352	127.2	14.0	57.2
AgriMaxx	5	AgriMAXX 516	124.4	14.1	56.9
Dyna Gro	6	9393	124.0	13.8	57.0
Dyna Gro	7	9290	123.8	13.9	56.4
USG	8	3783	123.1	13.7	57.0
MBX	9	MBX 120	123.0	13.9	57.8
Mid-Atlantic Seeds	10	MAS 139	122.9	14.1	56.7
MBX	11	MBX 127	122.7	13.8	57.3
Revere Seed	12	Revere 2277	122.5	13.6	57.8
Dyna Gro	13	9422	121.9	14.1	56.3
Southern Harvest	14	SH 5123	121.7	14.4	54.7
USG	15	3363	121.0	14.2	58.2
AgriMaxx	16	AgriMAXX 514	120.8	14.0	56.8
InSPIRE	17	Inspire FS 745	120.6	14.1	57.2
Southern Harvest	18	SH 9520	120.3	13.9	57.8
AgriMaxx	19	AgriMAXX 535	119.9	13.5	58.4
Mid-Atlantic Seeds	20	MAS 133	119.8	13.8	55.9
MBX	21	MBX 176	119.4	13.9	54.8
Mid-Atlantic Seeds	22	MAS 178	119.0	14.3	54.1
Mid-Atlantic Seeds	23	MAS 106	118.9	13.7	57.9
Mid-Atlantic Seeds	24	MAS 190	118.6	13.7	57.0
EPIX Seed	25	2392	118.0	13.8	58.4
Mid-Atlantic Seeds	26	MAS 86	117.9	14.4	56.0

VCIA	27	14VDH-HRW02-029	117.8	13.4	57.4
EPIX Seed	28	2356	116.9	13.9	58.2
USG	29	3904	116.0	13.6	56.1
EPIX Seed	30	1365	115.9	13.7	56.6
Southern Harvest	31	SH 4222	115.9	14.1	57.9
AgriMaxx	32	AgriMAXX 505	115.9	13.8	58.2
Mid-Atlantic Seeds	33	MAS 164	115.8	13.3	54.7
EPIX Seed	34	1375	115.3	14.2	56.9
MBX	35	MBX 230	115.3	14.3	57.6
Dyna Gro	36	9151	115.2	14.0	58.4
Mid-Atlantic Seeds	37	MAS 143	115.0	14.1	57.2
Elite Pro	38	EP2202	114.3	14.2	56.2
AgriMaxx	39	AgriMAXX 503	114.2	14.9	56.1
InSPIRE	40	Inspire FS 597	113.6	13.9	56.7
AgriMaxx	41	AgriMAXX 525	113.5	13.8	57.6
Mid-Atlantic Seeds	42	MAS 189	113.3	13.8	58.1
InSPIRE	43	Inspire FS 891	112.9	13.5	57.3
EPIX Seed	44	4372	112.8	14.0	57.3
MBX	45	MBX 223	111.9	14.3	56.3
USG	46	3472	111.6	14.1	57.7
InSPIRE	47	Inspire FS 743	111.6	14.0	58.0
Elite Pro	48	EP1909	110.4	14.0	56.8
Revere Seed	49	Revere 2347	110.0	14.2	57.8
Revere Seed	50	Revere 2148	109.8	14.7	56.1
Dyna Gro	51	9172	109.8	14.4	56.9
Southern Harvest	52	SH 7200	109.6	13.9	57.8
USG	53	3234	109.4	14.9	57.2
Mid-Atlantic Seeds	54	MAS 316	109.3	13.7	56.1

Mid-Atlantic Seeds	55	MAS 2	108.3	14.6	57.8
Mid-Atlantic Seeds	56	MAS 67	107.7	13.8	54.8
USG	57	3463	107.5	13.6	56.8
USG	58	3000	107.1	14.1	54.6
Dyna Gro	59	9481	107.1	13.8	56.3
Revere Seed	60	Revere 2169	105.5	13.9	57.3
AgriMaxx	61	AgriMAXX 513	97.0	13.6	56.2

Bolded varieties do not statistically differ from top yielding variety

LSD P=.05

15.55

All yield data adjusted to 13.5% moisture

CV

7.58

Mean

116.4

2023 Georgetown Barley Variety Trial

<u>Brand</u>	<u>Rank</u>	<u>Variety</u>	<u>Yield (Bu)</u>	<u>Moisture (Harvest)</u>	<u>Test Weight</u>	<u>Height (in)</u>	<u>Lodging</u>
VCIA	1	Marouetta	177.1	15.5	50.6	25	1
Virginia Tech	2	VA17M-13DH1720 LX	157.7	16.4	49.1	26	1
VCIA	3	Hirondella	155.3	16.4	48.6	24	1
VCIA	4	Secretariat	145.1	15.6	48.3	24	1
Proximity Malt	5	Flavia	132.6	14.9	47.4	21	1
VCIA	6	VT Beahm	129.3	17.5	47.2	25	1
Virginia Tech	7	VA20MFHB-18DH349	126.1	15.8	47.4	25	1
VCIA	8	Avalon	121.1	14.2	47.0	25	1
Proximity Malt	9	Violetta	120.4	12.9	46.6	24	1
Oregon State	10	DH141515	115.2	15.0	46.9	25	1
FS Barley	11	FS 945	114.5	14.6	48.2	24	1
VCIA	12	20211573	113.1	17.5	51.0	24	1
Oregon State	13	DH170472	112.6	17.8	46.5	23	1
Oregon State	14	DH141969	109.6	15.5	46.3	24	1
Virginia Tech	15	VA16M-84	107.2	15.0	47.9	26	1
Oregon State	16	DH142010	106.4	13.9	46.7	25	1
Oregon State	17	DH162310	106.3	16.8	47.2	24	1
Oregon State	18	DH150115	101.0	18.3	46.5	24	1

Bolded varieties do not statistically differ from top yielding variety

LSD P=.05 16.66

All yield data adjusted to 13.5% moisture

Lodging Scale

CV 9.33

1= Almost all plants erect

Mean 125

2= All plants leaning slightly or a few plants down

3= All plants leaning moderately (45 degree angle), or
25-50% of plants down

4= All plants leaning considerably, or 50-80% of plants down