



UNIVERSITY OF
DELAWARE.

Delaware Small Grain Variety Trials 2022

Gunnar Isaacs
Research Associate
Variety Testing

Carvel Research and Education Center
16483 County Seat Highway
Georgetown, DE 19947



Commercial companies or products are mentioned in this publication solely for the purpose of providing specific information. Mention of a company or product does not constitute a guarantee or warranty of products by the Agricultural Experiment Station or Delaware Cooperative Extension or an endorsement over products of other companies not mentioned.

Acknowledgments

Thank you to all the companies who have supported and participated in the 2021-2022 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 Allen Garey of Garey Farms.

I would like to personally thank Buddy Willey, Kyle Mitchell, George Petitgout, Warren Willey, Ward Harris 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.

2022 Delaware Wheat Variety Trial Entries

<u>Brand</u>	<u>Variety</u>	<u>Seed Treatment</u>
Agri Pro	SY 576	CruiserMaxx Vibrance
Agri Pro	SY 100	CruiserMaxx Vibrance
Agri Pro	SY 547	CruiserMaxx Vibrance
Agri Pro	SY 007	CruiserMaxx Vibrance
Agri Pro	SY Viper	CruiserMaxx Vibrance
Agri Pro	GP 381	CruiserMaxx Vibrance
Agri Pro	GP 709	CruiserMaxx Vibrance
Agri Pro	GP 463	CruiserMaxx Vibrance
AgriMaxx	502	Prime ST
AgriMaxx	503	Prime ST
AgriMaxx	505	Prime ST
AgriMaxx	513	Prime ST
AgriMaxx	514	Prime ST
AgriMaxx	516	Prime ST
AgriMaxx	EXP 2105	Prime ST
AgriMaxx	AM 525	Prime ST
AgriMaxx	EXP 2222	Prime ST
Dyna Gro	WX21741	Dynashield Foothold w/Awaken
Dyna Gro	WX20738	Dynashield Foothold w/Awaken
Dyna Gro	9352	Dynashield Foothold w/Awaken
Dyna Gro	9172	Dynashield Foothold w/Awaken
Dyna Gro	WX22741	Dynashield Foothold w/Awaken
Dyna Gro	9151	Dynashield Foothold w/Awaken
Dyna Gro	9002	Dynashield Foothold w/Awaken
Dyna Gro	9393	Dynashield Foothold w/Awaken
Elite Pro	Elite Pro 1909	Vibrance Extreme

Elite Pro	Elite Pro 2202	CruiserMaxx Vibrance
InSPIRE	FS 597	DIV EXT
InSPIRE	FS 745	DIV EXT
InSPIRE	FS 743	DIV EXT
KWS Cereals	KWS411	CruiserMaxx Vibrance
KWS Cereals	KWS394	CruiserMaxx Vibrance
KWS Cereals	KWS414	CruiserMaxx Vibrance
Local Seed	Revere 2277	Radius Premium
Local Seed	Revere 2169	Radius Premium
Local Seed	Revere 2148	Radius Premium
Local Seed	Revere 2266	Radius Premium
Mercer Brand MBX	MBX 246	CruiserMaxx Vibrance Extreme
Mercer Brand MBX	MBX 127	CruiserMaxx Vibrance Extreme
Mercer Brand MBX	MBX 223	CruiserMaxx Vibrance Extreme
Mercer Brand MBX	MBX 120	CruiserMaxx Vibrance Extreme
Mercer Brand MBX	MBX 2261	CruiserMaxx Vibrance Extreme
Mercer Brand MBX	MBX 176	CruiserMaxx Vibrance Extreme
Mid-Atlantic Seeds	MAS 155	MAS ProShield
Mid-Atlantic Seeds	MAS 133	MAS ProShield
Mid-Atlantic Seeds	MAS 2	MAS ProShield
Mid-Atlantic Seeds	MAS 139	MAS ProShield
Mid-Atlantic Seeds	MAS 86	MAS ProShield
Mid-Atlantic Seeds	MAS106	MAS ProShield
Mid-Atlantic Seeds	MAS 67	MAS ProShield
Mid-Atlantic Seeds	MAS 143	MAS ProShield
Mid-Atlantic Seeds	MAS 189	MAS ProShield
Mid-Atlantic Seeds	MAS 316 *	MAS ProShield Plus
Mid-Atlantic Seeds	MAS 133 *	MAS ProShield Plus

Mid-Atlantic Seeds	MAS 86 *	MAS ProShield Plus
Mid-Atlantic Seeds	MAS 316	MAS ProShield
Mid-Atlantic Seeds	MAS 134	MAS ProShield
Southern Harvest	SH 9250	Vibrance Extreme + Super Symcoat
Southern Harvest	SH 7200	Vibrance Extreme + Super Symcoat
Southern Harvest	SH 4222	Vibrance Extreme + Super Symcoat
USG	USG 3363	Ipconazole + Metalaxyl+ Imidiclopid
USG	USG 3783	Ipconazole + Metalaxyl+ Imidiclopid
USG	USG 3463	Ipconazole + Metalaxyl+ Imidiclopid
USG	USG 3329	Ipconazole + Metalaxyl+ Imidiclopid
USG	USG 3472	Ipconazole + Metalaxyl+ Imidiclopid
USG	USG 3118	Ipconazole + Metalaxyl+ Imidiclopid
USG	USG 3661	Ipconazole + Metalaxyl+ Imidiclopid
USG	USG 3352	Ipconazole + Metalaxyl+ Imidiclopid
VCIA	VA17W-75	CruiserMaxx Vibrance Cereals + Cruiser 5FS
VCIA	15VDH-FHB-MAS38-01	Foothold Virock + Awaken ST
VCIA	15VDH-FHB-MAS33-13	CruiserMaxx Vibrance Cereals + Cruiser 5FS
VCIA	17VDH-SRW01-077	Foothold Virock + Awaken ST
VCIA	Liberty 5658	Foothold Virock + Awaken ST

	Carvel Rec - Georgetown	Emerson Farms - Middletown
Number of Entries	73	73
Target Population	1.5 million seeds/acre	1.5 million seeds/acre
Plot Length	12	12
Plot Width	5.625	5
Spacing	9 rows, 7.5 inch (drilled)	8 rows, 7.5 inch (drilled)
Planter	Almaco Research Plot Planter	Tye Research Drill
Harvester	Almaco R1 combine	Almaco R1 combine
Grain Analysis	Harvest Master H2 Classic	Harvest Master H2 Classic
Number of Replications	4	4
Planting Date	10/15/2021	10/19/2021
Harvest Date	6/21/2022	7/1/2022
Soil Type	Ingleside Loamy sand	Reybold- Queponco complex- Silt Loam
Previous Crop	corn	corn
Tillage Practices	turbo tilled	no-till
Fertilization	(N-Sul) 1st app. 60 pounds 2/28/2022 2nd app. 60 pounds 3/28/2022	(N-Sul) 1st app. 60 pounds 3/2/2022 2nd app. 60 pounds 3/30/2022
Herbicide	Harmony SG 9 oz/acre on 3/28/2022	Harmony SG 9 oz/acre on 3/30/2022
Insecticide/Fungicide	Miravis Neo 17 oz/acre, Warrior 2 oz/acre on 5/4/2022	none
Irrigation	Linear (Irrigated Twice)	dryland

	Murray Brothers Farm - Selbyville	Gary Farms - Kent
Number of Entries	73	73
Target Population	1.5 million seeds/acre	1.5 million seeds/acre
Plot Length	12	12
Plot Width	5.625	5
Spacing	9 rows, 7.5 inch (drilled)	8 rows, 7.5 inch (drilled)
Planter	Almaco Research Plot Planter	Tye Research Drill
Harvester	Almaco R1 combine	Almaco R1 combine
Grain Analysis	Harvest Master H2 Classic	Harvest Master H2 Classic
Number of Replications	4	4
Planting Date	10/21/2021	10/20/2021
Harvest Date	6/30/2022	6/29/2022
Soil Type	Mullica-Berryland Complex	Glassboro Sandy Loam
Previous Crop	corn	corn
Tillage Practices	conventional/disc	no-till
Fertilization	(N-Sul) 1st app. 60 pounds 3/1/2022 2nd app. 60 pounds 3/29/2022	(N-Sul) 1st app. 60 pounds 3/1/2022 2nd app. 60 pounds 3/29/2022
Herbicide	Harmony SG 9 oz/acre on 3/29/2022	Harmony SG 9 oz/acre on 3/29/2022
Insecticide/Fungicide	none	none
Irrigation	none	Center Pivot

Barley

	Carvel Rec - Georgetown
Number of Entries	15
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	10/5/2021
Harvest Date	6/15/2022
Soil Type	Ingleside Loamy sand
Previous Crop	corn
Tillage Practices	turbo tilled
Fertilization	(N-Sul) 1st app. 60 pounds 2/28/2022 2nd app. 60 pounds 3/28/2022
Herbicide	Harmony SG 9 oz/acre on 3/28/2022
Insecticide/Fungicide	Miravis Neo 17 oz/acre, Warrior 2 oz/acre on 5/4/2022
Irrigation	Linear (Irrigated Twice)

2022 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>
AgriMaxx	1	AgriMaxx 505	125.7	12.28	62.55
Mercer Brand MBX	2	MBX 176	122.2	11.28	59.48
AgriMaxx	3	AgriMaxx 514	120.9	12.83	60.30
Local Seed	4	Revere 2169	119.5	12.03	60.50
KWS Cereals	5	KWS414	118.7	12.48	58.55
USG	6	USG 3329	117.7	12.53	59.68
Dyna Gro	7	DG WX22741	117.4	12.75	58.43
Mid-Atlantic Seeds	8	MAS 133 *	117.3	12.03	58.13
Southern Harvest	9	SH 9250	116.5	12.58	60.80
AgriMaxx	10	AgriMaxx 513	116.3	11.85	61.45
Mid-Atlantic Seeds	11	MAS 139	115.7	11.70	59.90
Mid-Atlantic Seeds	12	MAS 155	115	12.05	60.98
Mid-Atlantic Seeds	13	MAS 143	115	12.20	60.13
AgriMaxx	14	AgriMaxx AM 525	114.4	12.35	60.80
Dyna Gro	15	DG 9172	113.6	12.43	60.50
Local Seed	16	Revere 2277	113.6	13.08	60.55
Mid-Atlantic Seeds	17	MAS 86	113.6	11.98	60.18
USG	18	USG 3363	112.2	12.28	61.85
Local Seed	19	Revere 2266	111.8	11.65	59.75
VCIA	20	15VDH-FHB-MAS33-13	111.2	11.98	55.98
Mercer Brand MBX	21	MBX 120	111	12.43	60.70
USG	22	USG 3472	110.8	11.98	60.95
USG	23	USG 3352	109.8	12.68	60.53
Dyna Gro	24	DG 9002	109.5	12.25	60.30
Dyna Gro	25	DG WX21741	109.3	12.15	61.33
VCIA	26	VA17W-75	108.9	12.03	61.65

USG	27	USG 3661	107.9	12.40	60.88
AgriMaxx	28	AgriMaxx EXP 2222	107.3	12.20	61.95
USG	29	USG 3783	107	13.60	60.10
Mercer Brand MBX	30	MBX 223	106.9	12.13	59.40
VCIA	31	17VDH-SRW01-077	106.9	12.30	58.85
InSPIRE	32	FS 745	106.6	12.18	60.40
KWS Cereals	33	KWS411	106.5	12.15	62.18
USG	34	USG 3463	106.5	12.03	59.73
Mid-Atlantic Seeds	35	MAS 86 *	106.5	12.83	59.70
USG	36	USG 3118	106.2	12.63	60.75
KWS Cereals	37	KWS394	106	12.03	58.38
AgriMaxx	38	AgriMaxx EXP 2105	105.8	12.28	60.20
Dyna Gro	39	DG 9352	105.8	11.95	58.93
Dyna Gro	40	DG 9151	105.4	12.30	62.10
Dyna Gro	41	DG 9393	105.4	12.38	60.78
Mercer Brand MBX	42	MBX 246	105.3	11.83	61.13
AgriMaxx	43	AgriMaxx 503	104.5	12.53	60.20
Mercer Brand MBX	44	MBX 2261	104	12.60	58.70
InSPIRE	45	FS 743	103.8	11.73	61.13
Mid-Atlantic Seeds	46	MAS 133	103.3	12.10	57.88
Elite Pro	47	Elite Pro 1909	103.2	12.08	57.63
Elite Pro	48	Elite Pro 2202	102.9	12.03	58.93
Mid-Atlantic Seeds	49	MAS 134	102.6	11.95	60.63
Agri Pro	50	SY 100	102.2	12.20	58.80
VCIA	51	15VDH-FHB-MAS38-01	101.7	12.28	59.28
AgriMaxx	52	AgriMaxx 516	101.3	12.33	60.35
Southern Harvest	53	SH 4222	101.3	12.18	61.55
InSPIRE	54	FS 597	100.9	11.73	60.75

Mercer Brand MBX	55	MBX 127	100.3	12.83	59.83
AgriMaxx	56	AgriMaxx 502	100.2	12.15	60.28
Dyna Gro	57	DG WX20738	97	12.25	60.80
Mid-Atlantic Seeds	58	MAS 316	96.8	12.03	59.88
Southern Harvest	59	SH 7200	95.6	13.10	59.58
VCIA	60	Liberty 5658	95.5	12.38	61.05
Agri Pro	61	SY 576	95.4	11.75	60.23
Agri Pro	62	GP 463	95	11.48	58.08
Agri Pro	63	SY 007	94.7	12.48	59.08
Local Seed	64	Revere 2148	94.1	13.30	59.60
Mid-Atlantic Seeds	65	MAS 67	92	12.18	57.45
Mid-Atlantic Seeds	66	MAS 189	91.3	11.10	60.70
Mid-Atlantic Seeds	67	MAS 2	91.1	12.50	61.65
Mid-Atlantic Seeds	68	MAS 316 *	90.6	12.10	59.70
Agri Pro	69	SY 547	88.8	12.33	58.20
Agri Pro	70	GP 381	88.2	12.38	58.78
Agri Pro	71	SY Viper	86.5	13.28	60.10
Agri Pro	72	GP 709	80	12.48	59.20
Mid-Atlantic Seeds	73	MAS106	72.1	11.83	59.08

Bolded varieties do not statistically differ from top yielding variety

LSD P=.05

16.47

All yield data adjusted to 13.5% moisture

CV

11.25

Mean

105

2022 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>
KWS Cereals	1	KWS414	116.2	12.0	59.5
USG	2	USG 3352	113.9	13.4	56.1
Agri Pro	3	SY Viper	113.0	12.8	58.3
Mercer Brand MBX	4	MBX 120	109.6	13.1	58.4
Mid-Atlantic Seeds	5	MAS 133 *	109.1	12.5	58.0
USG	6	USG 3783	107.8	12.1	56.5
KWS Cereals	7	KWS394	107.7	12.7	59.9
AgriMaxx	8	AgriMaxx EXP 2222	105.8	12.8	57.0
Mid-Atlantic Seeds	9	MAS 134	105.5	13.5	56.9
Local Seed	10	Revere 2277	105.4	13.1	56.3
Mid-Atlantic Seeds	11	MAS 133	104.7	12.1	58.1
Southern Harvest	12	SH 4222	102.7	12.6	57.0
Dyna Gro	13	9393	102.3	13.0	56.5
AgriMaxx	14	AgriMaxx EXP 2105	101.8	13.2	56.1
Local Seed	15	Revere 2169	100.7	12.9	55.2
Local Seed	16	Revere 2266	100.6	12.4	57.2
AgriMaxx	17	AgriMaxx 516	98.7	13.5	55.0
Dyna Gro	18	9172	98.7	13.4	55.2
USG	19	USG 3463	98.7	12.7	57.9
Elite Pro	20	Elite Pro 2202	98.5	12.5	56.6
Mercer Brand MBX	21	MBX 127	97.4	13.4	55.3
USG	22	USG 3472	96.5	13.5	55.3
AgriMaxx	23	AgriMaxx AM 525	96.0	13.2	56.0
Southern Harvest	24	SH 9250	95.8	12.7	56.3
Dyna Gro	25	WX21741	95.7	12.9	56.7

AgriMaxx	26	AgriMaxx 503	94.5	13.5	56.1
Mercer Brand MBX	27	MBX 176	94.1	13.0	58.5
USG	28	USG 3661	93.3	13.6	56.0
USG	29	USG 3363	92.8	12.7	56.5
Mid-Atlantic Seeds	30	MAS 316	92.7	11.7	55.7
AgriMaxx	31	AgriMaxx 513	91.9	12.6	56.5
Mercer Brand MBX	32	MBX 246	91.8	12.7	57.0
Agri Pro	33	SY 100	91.6	12.7	56.8
VCIA	34	15VDH-FHB-MAS33-13	91.5	12.8	56.8
Mid-Atlantic Seeds	35	MAS 316 *	91.4	12.4	56.0
Dyna Gro	36	9002	91.2	12.6	55.5
Mid-Atlantic Seeds	37	MAS 143	91.2	12.8	55.4
InSPIRE	38	FS 745	91.1	13.6	55.0
Dyna Gro	39	9151	91.0	13.7	56.2
AgriMaxx	40	AgriMaxx 514	90.9	14.6	57.2
Mid-Atlantic Seeds	41	MAS 86	90.7	14.0	55.2
Mid-Atlantic Seeds	42	MAS 86 *	90.2	13.5	55.1
InSPIRE	43	FS 597	89.8	13.0	56.3
Mercer Brand MBX	44	MBX 2261	88.8	13.8	57.9
Agri Pro	45	SY 576	88.4	12.4	57.7
InSPIRE	46	FS 743	87.4	12.8	56.5
Mercer Brand MBX	47	MBX 223	86.4	13.4	56.5
Dyna Gro	48	9352	86.1	14.0	57.9
KWS Cereals	49	KWS411	85.5	13.9	55.6
AgriMaxx	50	AgriMaxx 505	85.2	13.8	55.8
Elite Pro	51	Elite Pro 1909	84.4	12.8	56.2
USG	52	USG 3329	84.2	13.8	54.9

Agri Pro	53	GP 463	84.1	12.0	56.5
Mid-Atlantic Seeds	54	MAS 139	83.7	12.5	57.7
Mid-Atlantic Seeds	55	MAS 155	81.5	13.5	55.8
AgriMaxx	56	AgriMaxx 502	79.7	12.6	56.4
VCIA	57	VA17W-75	79.4	13.9	56.9
Dyna Gro	58	WX22741	78.8	15.2	56.9
Local Seed	59	Revere 2148	78.5	12.3	55.6
Dyna Gro	60	WX20738	78.2	13.8	55.7
VCIA	61	17VDH-SRW01-077	77.4	14.9	55.2
Mid-Atlantic Seeds	62	MAS 67	77.3	14.0	55.3
Mid-Atlantic Seeds	63	MAS 2	75.3	13.4	56.5
VCIA	64	15VDH-FHB-MAS38-01	74.7	14.9	55.9
Agri Pro	65	SY 547	72.9	13.6	54.6
Agri Pro	66	GP 381	67.5	12.0	54.8
Agri Pro	67	SY 007	65.2	12.6	55.8
VCIA	68	Liberty 5658	65.0	13.0	55.4
Southern Harvest	69	SH 7200	62.2	15.8	55.0
USG	70	USG 3118	61.0	12.4	53.4
Agri Pro	71	GP 709	57.5	12.4	55.7
Mid-Atlantic Seeds	72	MAS 189	54.6	12.2	53.0
Mid-Atlantic Seeds	73	MAS106	47.4	12.9	52.0

Bolded varieties do not statistically differ from top yielding variety

LSD P=.05

15.83

All yield data adjusted to 13.5% moisture

CV

12.73

Mean

89.9

*** Please note awnless varieties performance in this trial was likely affected to an extent by deer damage

2022 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>
Mercer Brand MBX	1	MBX 246	122.0	11.9	59.1
InSPIRE	2	FS 597	121.4	12.1	59.5
Mid-Atlantic Seeds	3	MAS 134	121.4	12.3	59.0
AgriMaxx	4	AgriMaxx EXP 2222	117.9	11.6	59.9
Mercer Brand MBX	5	MBX 127	116.9	12.2	58.8
VCIA	6	15VDH-FHB-MAS33-13	116.0	11.9	59.6
AgriMaxx	7	AgriMaxx 514	114.8	12.3	57.1
AgriMaxx	8	AgriMaxx 503	114.3	12.3	59.2
Dyna Gro	9	DG 9393	113.9	11.9	58.4
USG	10	USG 3363	113.8	11.9	58.9
Dyna Gro	11	DG 9172	113.4	12.2	58.1
AgriMaxx	12	AgriMaxx EXP 2105	113.2	11.8	58.5
Mid-Atlantic Seeds	13	MAS 189	112.7	11.9	57.9
KWS Cereals	14	KWS414	112.5	11.8	54.1
Dyna Gro	15	DG WX20738	112.2	11.8	60.4
Elite Pro	16	Elite Pro 2202	112.2	11.9	56.9
USG	17	USG 3783	112.2	12.0	58.3
USG	18	USG 3661	111.8	12.3	58.8
AgriMaxx	19	AgriMaxx 513	111.7	11.7	59.2
Southern Harvest	20	SH 4222	111.2	11.9	59.2
Mid-Atlantic Seeds	21	MAS 67	110.2	11.9	59.1
USG	22	USG 3472	109.7	12.0	57.8
USG	23	USG 3352	109.2	12.0	58.3
USG	24	USG 3118	108.2	12.0	58.3
Mercer Brand MBX	25	MBX 2261	107.9	11.9	56.1

Local Seed	26	Revere 2277	107.5	11.8	59.5
Mid-Atlantic Seeds	27	MAS 86	107.5	11.9	58.2
VCIA	28	Liberty 5658	107.4	11.9	59.3
Dyna Gro	29	DG 9352	107.2	12.1	56.5
AgriMaxx	30	AgriMaxx 516	107.1	12.2	58.4
Mercer Brand MBX	31	MBX 176	106.8	12.0	57.2
AgriMaxx	32	AgriMaxx 505	106.4	12.0	59.5
VCIA	33	VA17W-75	106.3	12.3	58.8
Mid-Atlantic Seeds	34	MAS 133	106.2	12.0	53.4
Dyna Gro	35	DG 9151	105.8	11.9	59.5
KWS Cereals	36	KWS411	105.4	11.6	58.7
AgriMaxx	37	AgriMaxx 502	105.2	12.1	58.3
KWS Cereals	38	KWS394	105.0	11.9	57.1
Agri Pro	39	SY 576	104.9	11.7	58.6
Elite Pro	40	Elite Pro 1909	104.6	11.8	57.6
Local Seed	41	Revere 2266	104.2	11.9	56.0
Mercer Brand MBX	42	MBX 223	104.1	12.1	57.7
Mid-Atlantic Seeds	43	MAS 155	103.8	12.2	56.9
Agri Pro	44	SY Viper	103.1	12.0	60.3
InSPIRE	45	FS 745	103.1	12.1	58.2
USG	46	USG 3463	102.5	12.0	59.0
Mid-Atlantic Seeds	47	MAS 139	102.2	12.4	54.7
VCIA	48	17VDH-SRW01-077	101.3	12.0	57.1
Local Seed	49	Revere 2169	101.3	12.3	57.6
Agri Pro	50	GP 709	101.1	11.7	58.5
InSPIRE	51	FS 743	100.8	12.1	59.1
Mid-Atlantic Seeds	52	MAS 86 *	100.5	12.3	57.7

Agri Pro	53	GP 381	100.1	11.9	57.8
Dyna Gro	54	DG WX22741	99.8	12.2	56.3
Local Seed	55	Revere 2148	99.3	12.3	58.8
Agri Pro	56	SY 100	98.7	12.2	54.8
Dyna Gro	57	DG 9002	98.5	11.9	58.7
Mercer Brand MBX	58	MBX 120	98.5	11.8	59.0
Dyna Gro	59	DG WX21741	97.9	11.9	59.1
Mid-Atlantic Seeds	60	MAS 316	97.7	11.9	57.3
Mid-Atlantic Seeds	61	MAS 106	97.4	12.3	57.7
VCIA	62	15VDH-FHB-MAS38-01	95.9	11.7	56.1
Agri Pro	63	GP 463	95.8	11.6	58.8
Agri Pro	64	SY 547	95.4	12.1	58.0
Mid-Atlantic Seeds	65	MAS 133 *	95.3	11.9	53.6
USG	66	USG 3329	95.1	12.2	56.8
Mid-Atlantic Seeds	67	MAS 316 *	94.8	11.8	58.1
AgriMaxx	68	AgriMaxx AM 525	93.8	11.9	57.8
Southern Harvest	69	SH 9250	92.0	12.0	58.7
Mid-Atlantic Seeds	70	MAS 143	91.9	12.1	57.5
Agri Pro	71	SY 007	87.5	11.8	58.7
Mid-Atlantic Seeds	72	MAS 2	86.9	11.9	60.3
Southern Harvest	73	SH 7200	81.6	12.1	56.2

Bolded varieties do not statistically differ from top yielding variety

LSD P=.05

16.54

All yield data adjusted to 13.5% moisture

CV

11.32

Mean

104.9

2022 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>
KWS Cereals	1	KWS414	108.2	12.7	59.2
Mid-Atlantic Seeds	2	MAS 86 *	105.9	12.5	57.6
Local Seed	3	Revere 2277	104.4	12.3	57.1
AgriMaxx	4	AgriMaxx 513	104.0	12.2	57.5
Mid-Atlantic Seeds	5	MAS 155	102.4	12.6	57.8
Mid-Atlantic Seeds	6	MAS 86	101.4	12.5	56.6
AgriMaxx	7	AgriMaxx AM 525	100.9	12.3	55.8
Southern Harvest	8	SH 9250	100.9	12.5	57.7
Mercer Brand MBX	9	MBX 176	100.6	12.1	56.1
Mercer Brand MBX	10	MBX 120	100.1	12.8	57.0
Elite Pro	11	Elite Pro 1909	99.2	12.1	58.0
USG	12	USG 3352	99.2	12.3	57.1
AgriMaxx	13	AgriMaxx EXP 2222	98.2	12.4	56.6
KWS Cereals	14	KWS394	97.9	12.3	57.1
Mercer Brand MBX	15	MBX 127	95.2	12.2	56.2
AgriMaxx	16	AgriMaxx 516	94.7	12.5	56.6
InSPIRE	17	FS 745	94.5	12.8	57.2
AgriMaxx	18	AgriMaxx 502	94.1	12.2	57.0
Mid-Atlantic Seeds	19	MAS 133	94.0	12.3	57.3
Dyna Gro	20	DG WX21741	93.6	12.3	56.3
USG	21	USG 3363	93.3	12.4	55.9
AgriMaxx	22	AgriMaxx 505	92.8	12.5	57.2
AgriMaxx	23	AgriMaxx 514	92.8	12.6	57.3
Mercer Brand MBX	24	MBX 223	92.7	12.8	57.0
Mid-Atlantic Seeds	25	MAS 133 *	92.1	12.4	56.9

Dyna Gro	26	DG 9172	90.5	12.4	55.5
AgriMaxx	27	AgriMaxx 503	90.2	12.7	57.1
Local Seed	28	Revere 2266	89.9	11.9	56.6
Agri Pro	29	GP 381	89.6	12.0	55.4
Elite Pro	30	Elite Pro 2202	89.3	12.5	57.1
Mid-Atlantic Seeds	31	MAS 139	89.2	12.2	55.1
USG	32	USG 3472	89.0	13.1	56.4
VCIA	33	15VDH-FHB-MAS33-13	88.4	13.1	56.1
USG	34	USG 3463	87.9	12.6	56.4
AgriMaxx	35	AgriMaxx EXP 2105	87.6	12.8	57.4
Mid-Atlantic Seeds	36	MAS 143	87.2	12.5	55.3
Mercer Brand MBX	37	MBX 246	87.1	12.3	56.6
Southern Harvest	38	SH 4222	87.1	12.5	56.5
KWS Cereals	39	KWS411	86.9	12.2	56.4
Dyna Gro	40	DG 9151	86.7	12.2	56.2
InSPIRE	41	FS 743	86.6	12.2	56.6
Agri Pro	42	SY 576	85.8	11.9	56.1
USG	43	USG 3329	85.6	13.0	54.9
USG	44	USG 3783	85.0	12.5	55.7
Local Seed	45	Revere 2148	85.0	12.7	56.9
Agri Pro	46	SY 547	84.8	12.2	55.7
Agri Pro	47	SY 100	84.6	12.4	55.1
Mid-Atlantic Seeds	48	MAS 134	84.6	12.4	57.8
Mid-Atlantic Seeds	49	MAS 316 *	83.8	12.1	56.0
VCIA	50	VA17W-75	82.0	12.0	58.3
Dyna Gro	51	DG WX22741	81.6	12.5	55.3
Mid-Atlantic Seeds	52	MAS 67	80.7	12.6	55.0

Mid-Atlantic Seeds	53	MAS 2	79.9	12.6	56.7
VCIA	54	17VDH-SRW01-077	79.5	12.8	55.0
Agri Pro	55	SY Viper	79.3	12.2	56.2
InSPIRE	56	FS 597	79.0	11.9	55.8
USG	57	USG 3661	78.0	12.7	55.4
Dyna Gro	58	DG 9393	77.7	12.4	54.9
Agri Pro	59	GP 463	77.5	12.5	56.3
Mercer Brand MBX	60	MBX 2261	77.0	12.1	55.9
Mid-Atlantic Seeds	61	MAS 316	76.5	12.2	55.9
USG	62	USG 3118	74.7	12.1	55.4
Dyna Gro	63	DG 9002	73.7	12.6	54.9
VCIA	64	Liberty 5658	72.2	11.8	55.9
Dyna Gro	65	DG 9352	71.7	12.7	53.9
Agri Pro	66	SY 007	69.7	12.2	54.3
Dyna Gro	67	DG WX20738	68.9	11.8	55.4
Mid-Atlantic Seeds	68	MAS 189	67.6	12.0	55.8
Local Seed	69	Revere 2169	67.0	12.8	53.8
VCIA	70	15VDH-FHB-MAS38-01	66.7	11.7	55.9
Agri Pro	71	GP 709	63.3	11.8	55.9
Southern Harvest	72	SH 7200	59.5	12.4	55.0
Mid-Atlantic Seeds	73	MAS106	55.5	11.9	56.8

Bolded varieties do not statistically differ from top yielding variety

LSD P=.05

17.08

All yield data adjusted to 13.5% moisture

CV

14.19

Mean

86.4

*** Please note awnless varieties performance in this trial was likely affected to an extent by deer damage

2022 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	VA16BFHB-268NA	119.4	15.0	47.9	28	1
OSU Romp of Otters	2	DH141969	117.4	14.3	47.6	23	1
VCIA	3	Amaze 10	114.7	13.5	46.4	24	2
VCIA	4	Secretariat	113.9	13.9	46.6	23	2
OSU Romp of Otters	5	DH141515	113.8	14.0	47.5	24	1
OSU Romp of Otters	6	DH150115	111.9	14.7	48.2	23	1
VCIA	7	Thoroughbred	106.3	14.2	46.5	23	1
VCIA	8	VA16M-84	105.6	13.9	47.8	25	2
VCIA	9	Hirondella	104.6	14.4	46.8	23	1
VCIA	10	Nomini	102.0	14.8	46.4	27	2
VCIA	11	VA15H-73 2R	101.0	15.5	46.5	26	2
OSU Romp of Otters	12	DH142010	99.9	15.1	48.4	24	1
VCIA	13	Flavia	98.1	13.8	45.9	20	1
VCIA	14	Marouetta	96.5	15.4	46.9	24	1
VCIA	15	Avalon	83.2	14.6	46.7	24	3

Bolded varieties do not statistically differ from top yielding variety

LSD P=.05 22.82

All yield data adjusted to 13.5% moisture

CV 15.1

Mean 105.9

Lodging Scale

1= Almost all plants erect

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