



UNIVERSITY OF
DELAWARE.

Delaware Small Grain Variety Trials 2021

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Acknowledgments

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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 in Selbyville, Rob Emerson of Emerson Farms in Middletown and Allen Garey of Gary Farms at the Kent County location.

I would like to personally thank Buddy Willey, Kyle Mitchell, Ward Harris and Brian Hearn of our Carvel Farm Staff for their assistance in planting, harvesting, and managing the trials. This past year was very challenging to say the least operating around COVID-19 restrictions and being understaffed at times. They deserve much credit for their perseverance thru adversity and these trials would not be possible without their efforts.

Methodology

All trials were conducted in a randomized, complete block design with four replications. The final plot length of all trials was 12 ft. Additional experimental details such as plant population, plot width, planting/harvest dates, and tillage or cultural practices can be found in the following tables. 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 nature 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 statistical 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, please 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.

	Carvel Rec - Georgetown	Emerson Farms - Middletown
Number of Entries	68	68
Target Population	1.5 million seeds/acre	1.5 million seeds/acre
Plot Length	12	12
Plot Width	5	5
Spacing	8 rows, 7.5 inch (drilled)	8 rows, 7.5 inch (drilled)
Planter	Tye Research Drill	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	10/15/2020	10/28/2020
Harvest Date	6/29/2021	6/30/2021
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 2/27/2021 2nd app. 30 pounds 3/30/2021 3rd app. 30 pounds 4/3/2021	(N-Sul) 1st app. 60 pounds 3/1/2021 2nd app. 60 pounds 4/6/2021
Herbicide	Harmony SG 9 oz/acre on 3/30/2021	Harmony SG 9 oz/acre on 4/6/2021
Insecticide/Fungicide	none/ no pressure	none/ no pressure
Irrigation	Linear (Irrigated Twice)	none

	Murray Brothers Farm - Selbyville	Gary Farms - Kent
Number of Entries	68	68
Target Population	1.5 million seeds/acre	1.5 million seeds/acre
Plot Length	12	12
Plot Width	5.62	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	10/30/2020	10/22/2020
Harvest Date	7/7/2021	7/6/2021
Soil Type	Mullica-Berryland Complex	Glassboro Sandy Loam
Previous Crop	corn	corn
Tillage Practices	turbo tilled	no-till
Fertilization	(N-Sul) 1st app. 60 pounds 2/28/2021 2nd app. 60 pounds 4/4/2021	(N-Sul) 1st app. 60 pounds 3/1/2021 2nd app. 60 pounds 4/4/2021
Herbicide	Harmony SG 9 oz/acre on 4/4/2021	Harmony SG 9 oz/acre on 4/4/2021
Insecticide/Fungicide	none/ no pressure	none/ no pressure
Irrigation	none	Center Pivot

2021 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>
Pioneer	1	26R59	100.3	12.4	53.8
KWS	2	KWS291	100.1	12.0	55.3
USG	3	3118	97.6	12.1	56.9
MeherrinAg	4	SH4400	96.1	12.4	55.7
Mercer	5	MBX223	91.6	12.3	53.8
Pioneer	6	25R40	91.6	12.0	57.7
Northern Star	7	NSSX91	91.1	12.3	54.9
USG	8	3329	89.4	12.5	53.8
MeherrinAg	9	SH7200	88.1	11.9	57.8
Mid-Atlantic Seed	10	MAS316	87.8	11.6	53.6
VCIA	11	13VTK429-3	85.9	11.7	57.1
USG	12	3562	85.9	12.0	58.3
AgriMAXX	13	AM514	85.4	12.6	55.5
AgriMAXX	14	AM505	85.3	12.3	56.0
AgriPro	15	SY Richie	85.1	12.7	56.6
Dyna-Gro	16	WX20734	84.6	12.2	57.8
Growmark	17	FS746	84.6	12.1	53.7
Dyna-Gro	18	9941	84.1	11.8	53.3
USG	19	3316	84.1	12.2	55.8
Growmark	20	FS745	83.6	12.0	56.4
AgriMAXX	21	AM2002	83.3	11.8	58.2
Mid-Atlantic Seed	22	MAS2	82.9	13.2	56.6
AgriPro	23	SY Viper	82.4	13.2	57.2
Mercer	24	MBX120	82.1	12.4	58.0
AgriMAXX	25	AM502	82.0	12.0	57.4
Mid-Atlantic Seed	26	MAS143	81.9	12.8	55.9
Mercer	27	MBX127	81.6	12.2	56.5
USG	28	3232	81.0	11.7	57.3
Mid-Atlantic Seed	29	MAS67	80.7	11.9	52.8
Pioneer	30	25R74	80.6	11.9	56.8
Dyna-Gro	31	9002	80.5	12.3	57.3
KWS	32	KWS340	80.4	12.2	56.8
Mid-Atlantic Seed	33	MAS139	79.8	11.9	55.0
KWS	34	KWS263	79.6	12.7	56.8
Local Seed	35	LW2068	79.0	12.0	56.0

USG	36	3000	78.7	12.9	55.7
AgriPro	37	SY100	78.4	12.3	51.9
Local Seed	38	LW2148	78.1	12.0	54.7
AgriMAXX	39	AM513	77.7	12.0	57.5
AgriPro	40	SY576	77.6	11.6	53.3
Local Seed	41	LW2958	77.2	12.2	58.1
AgriMAXX	42	AM503	77.2	12.5	53.2
Dyna-Gro	43	9070	77.1	12.2	56.5
Dyna-Gro	44	Shirley	76.2	12.1	55.2
Mid-Atlantic Seed	45	MAS133	76.2	12.3	53.9
Mercer	46	MBX246	75.7	12.5	56.5
Local Seed	47	LW2848	75.4	11.9	56.1
Mercer	48	MBX176	75.4	11.9	56.8
AgriMAXX	49	AM516	75.0	12.3	57.1
Dyna-Gro	50	9151	74.9	12.2	57.2
KWS	51	KWS380	74.8	12.1	57.6
Growmark	52	FS743	74.7	12.0	56.5
Dyna-Gro	53	9172	74.2	13.0	55.0
USG	54	3536	73.8	12.4	55.2
USG	55	3230	73.7	11.8	56.2
Mercer	56	MBX242	73.3	11.9	56.5
USG	57	3472	73.1	12.1	55.2
Dyna-Gro	58	9120	72.4	12.9	58.5
Mid-Atlantic Seed	59	MAS86	71.7	12.2	55.5
Local Seed	60	LW2169	71.6	12.1	56.4
Northern Star	61	NSS1472	70.8	12.1	56.7
Growmark	62	FS891	70.8	11.8	57.3
Mid-Atlantic Seed	63	MAS106	70.4	12.3	56.8
Northern Star	64	NSS1450	69.4	12.1	56.6
MeherrinAg	65	SH9520	69.3	12.8	56.5
AgriPro	66	SY107	68.6	12.6	56.0
AgriPro	67	SY547	61.5	12.4	55.5
VCIA	68	Liberty 5658	58.7	12.3	58.7

Bolded varieties do not statistically differ from the top yielding variety

LSD P=.05

19.01

All yield data adjusted to 13.5% moisture

CV

17.09

Mean

79.8

2021 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>
Local Seed	1	LW2958	103.0	12.1	55.3
Local Seed	2	LW2169	102.5	12.7	54.0
KWS	3	KWS263	101.0	12.1	55.7
USG	4	3329	98.3	11.5	47.5
USG	5	3472	96.3	12.1	55.1
Dyna-Gro	6	9172	96.2	12.3	54.4
VCIA	7	13VTK429-3	95.6	11.9	55.7
Mercer	8	MBX176	93.8	12.3	53.9
Dyna-Gro	9	9120	93.5	12.6	56.5
Northern Star	10	CP8045	92.4	12.0	55.1
Pioneer	11	25R40	90.2	12.2	55.3
Local Seed	12	LW2848	89.4	11.6	54.7
Growmark	13	FS891	88.5	12.0	55.0
USG	14	3562	87.8	11.9	55.7
Mid-Atlantic Seed	15	MAS139	87.7	12.1	51.6
USG	16	3536	87.6	11.9	55.4
MeherrinAg	17	SH9520	86.5	12.5	54.6
MeherrinAg	18	SH4400	86.0	12.1	52.6
Dyna-Gro	19	9151	85.9	12.5	54.0
AgriMAXX	20	AM514	85.4	12.0	54.8
AgriPro	21	SY576	85.3	12.0	53.1
AgriMAXX	22	AM513	84.8	11.9	54.9
Dyna-Gro	23	WX20734	84.8	12.1	54.3
Mercer	24	MBX246	84.0	12.1	55.7
Pioneer	25	25R74	84.0	11.6	53.1
KWS	26	KWS291	83.5	11.6	52.7
AgriMAXX	27	AM516	83.5	12.1	54.9
Mercer	28	MBX127	83.1	12.1	54.0
Growmark	29	FS745	82.8	12.1	54.6
AgriMAXX	30	AM505	82.1	11.7	54.8
Mid-Atlantic Seed	31	MAS86	81.8	11.9	53.3
Northern Star	32	CP8081	81.5	11.9	54.9
USG	33	3232	81.4	12.4	53.4
Growmark	34	FS743	81.3	12.0	52.5
Mercer	35	MBX120	80.8	12.4	54.0

2021 Kent County 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	3562	85.1	11.8	53.6
Growmark	2	FS745	85.0	12.2	51.8
Northern Star	3	CP8045	84.2	12.4	52.8
Pioneer	4	26R59	82.3	13.0	50.3
USG	5	3536	82.1	11.9	52.1
Dyna-Gro	6	9172	80.6	12.3	51.3
USG	7	3329	^80.4	12.5	47.5
Northern Star	8	NSSX91	^80.3	12.3	52.8
Dyna-Gro	9	9002	*80.2	12.4	53.1
AgriMAXX	10	AM514	79.3	12.6	53.3
AgriMAXX	11	AM513	78.2	12.2	52.6
KWS	12	KWS263	76.7	12.3	51.9
KWS	13	KWS340	76.5	12.6	51.9
Dyna-Gro	14	9941	76.5	12.1	50.3
Pioneer	15	25R40	*76.4	12.6	52.8
Local Seed	16	LW2958	^75.3	12.9	52.8
AgriMAXX	17	AM503	75.0	12.9	50.8
AgriPro	18	SY Richie	*74.7	12.6	52.7
USG	19	3472	*74.5	12.4	53.4
Mid-Atlantic Seed	20	MAS133	74.2	12.8	49.1
USG	21	3000	*74	12.7	51.9
Dyna-Gro	22	WX20734	73.5	11.9	50.7
MeherrinAg	23	SH7200	73.2	12.6	51.8
MeherrinAg	24	SH4400	72.8	13.0	50.6
Mercer	25	MBX176	72.4	12.2	52.6
USG	26	3316	71.9	12.0	51.3
Mid-Atlantic Seed	27	MAS86	71.7	12.8	51.1
Local Seed	28	LW2148	71.6	12.4	50.4
Growmark	29	FS891	^71.5	12.3	52.4
VCIA	30	13VTK429-3	^70.4	12.9	52.2

MeherrinAg	31	SH9520	^70.4	12.9	52.9
Local Seed	32	LW2848	70.3	12.2	51.6
VCIA	33	Liberty 5658	70.1	12.4	53.4
AgriPro	34	SY107	69.9	12.7	50.8
AgriMAXX	35	AM505	69.6	12.1	52.1
AgriPro	36	SY576	*69.2	12.8	52.0
Dyna-Gro	37	9151	69.1	12.8	51.6
AgriMAXX	38	AM2002	*68.7	11.7	52.0
Mid-Atlantic Seed	39	MAS143	68.5	12.7	52.2
Mid-Atlantic Seed	40	MAS67	68.3	12.8	49.3
AgriMAXX	41	AM502	67.9	12.6	51.0
Mercer	42	MBX246	67.6	12.2	52.3
USG	43	3118	66.8	12.5	50.1
Mid-Atlantic Seed	44	MAS316	66.6	12.5	49.4
AgriPro	45	SY100	66.1	12.7	48.1
Local Seed	46	LW2068	66.0	12.8	51.7
AgriPro	47	SY547	65.5	12.9	51.6
Mid-Atlantic Seed	48	MAS139	64.9	13.0	47.4
Pioneer	49	25R74	^64	12.7	52.3
Mercer	50	MBX223	63.8	12.5	47.7
Mercer	51	MBX242	63.4	12.3	50.3
Northern Star	52	CP8081	62.8	13.0	49.8
Dyna-Gro	53	9120	*62.6	12.7	50.2
KWS	54	KWS291	*61.8	12.6	49.6
AgriMAXX	55	AM516	*61.4	12.7	51.4
Mercer	56	MBX127	^61.3	13.0	51.0
Mercer	57	MBX120	61.3	12.5	51.9
USG	58	3230	^61.3	11.8	47.0
KWS	59	KWS380	*61.2	12.2	50.5
AgriPro	60	SY Viper	60.8	12.0	49.3
Mid-Atlantic Seed	61	MAS106	*59.6	12.3	51.7
Growmark	62	FS743	59.4	12.4	51.2
Growmark	63	FS746	*56.8	12.4	50.1

Dyna-Gro	64	9070	56.3	13.0	49.1
USG	65	3232	55.5	12.6	48.6
Dyna-Gro	66	Shirley	54.4	12.9	49.4
Local Seed	67	LW2169	54.2	12.7	51.8
Mid-Atlantic Seed	68	MAS2	51.7	12.9	52.2

Bolded varieties do not significantly differ from the top yielding variety

All yield data adjusted to 13.5% moisture

* Denotes one rep for this variety had an irrigation wheel track

^ Denotes one rep for this variety had a poor stand due to a wet spot/water ponding in one area

LSD P=.05	22.49
CV	20.24
Mean	69.6

2021 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>
Dyna-Gro	1	Shirley	108.6	11.2	57.3
Dyna-Gro	2	WX20734	107.7	11.4	57.9
Growmark	3	FS745	106.1	11.3	58.6
Northern Star	4	NSSX91	105.8	11.5	58.6
KWS	5	KWS340	104.5	11.0	60.2
AgriPro	6	SY Viper	104.3	11.5	59.5
Growmark	7	FS746	104.1	11.2	57.8
Pioneer	8	25R40	103.8	11.4	58.6
AgriPro	9	SY100	103.0	11.5	55.2
MeherrinAg	10	SH7200	101.3	11.1	59.5
AgriMAXX	11	AM503	99.2	11.5	57.3
Northern Star	12	CP8081	98.8	10.9	59.1
Mid-Atlantic Seed	13	MAS139	98.4	11.2	56.2
Dyna-Gro	14	9172	98.3	11.4	57.9
Local Seed	15	LW2169	98.1	11.0	58.3
Dyna-Gro	16	9070	97.9	11.1	56.5
Mid-Atlantic Seed	17	MAS133	97.5	11.1	55.7
Dyna-Gro	18	9002	97.2	11.2	57.5
USG	19	3230	97.2	10.8	58.7
USG	20	3000	97.1	11.2	59.9
USG	21	3316	96.6	11.4	56.1
AgriMAXX	22	AM502	96.5	11.5	56.1
MeherrinAg	23	SH9520	96.2	11.2	58.2
Mid-Atlantic Seed	24	MAS86	96.2	11.5	57.2
KWS	25	KWS263	95.9	11.4	57.7
Mercer	26	MBX120	95.3	11.3	57.7
USG	27	3562	95.1	10.9	59.9
Dyna-Gro	28	9151	94.9	11.3	59.3
USG	29	3118	94.8	10.9	58.7
USG	30	3329	94.7	11.4	56.0

Pioneer	31	26R59	94.6	11.6	52.6
Mercer	32	MBX127	94.5	11.3	57.4
Northern Star	33	CP8045	94.1	11.3	57.9
Growmark	34	FS743	93.9	11.3	57.9
Mercer	35	MBX223	93.3	11.3	54.7
AgriMAXX	36	AM514	93.2	11.6	57.7
USG	37	3472	92.9	11.2	57.7
KWS	38	KWS291	92.6	11.4	58.1
AgriMAXX	39	AM516	92.6	11.4	57.4
Mercer	40	MBX176	91.7	11.2	58.4
KWS	41	KWS380	91.3	11.2	58.0
Dyna-Gro	42	9120	90.9	11.0	59.9
Growmark	43	FS891	90.7	11.0	59.1
AgriPro	44	SY547	90.5	11.1	59.5
Mercer	45	MBX246	90.5	11.2	59.4
Mid-Atlantic Seed	46	MAS143	90.3	11.3	58.6
Dyna-Gro	47	9941	90.0	11.0	55.9
AgriMAXX	48	AM513	89.9	11.0	58.5
Mid-Atlantic Seed	49	MAS316	89.5	11.1	57.0
Mid-Atlantic Seed	50	MAS2	89.5	11.4	59.7
Mid-Atlantic Seed	51	MAS106	89.1	11.4	57.8
Local Seed	52	LW2958	88.8	11.2	59.7
VCIA	53	13VTK429-3	87.8	11.0	59.9
Mid-Atlantic Seed	54	MAS67	87.0	11.3	55.0
Mercer	55	MBX242	86.4	11.3	58.0
Local Seed	56	LW2068	86.0	11.3	57.4
AgriMAXX	57	AM505	86.0	11.5	59.4
USG	58	3232	85.1	11.3	58.7
AgriMAXX	59	AM2002	84.5	10.9	58.8
Local Seed	60	LW2148	83.9	11.6	57.5
AgriPro	61	SY107	83.4	11.6	57.5
AgriPro	62	SY Richie	83.0	11.6	56.8
Local Seed	63	LW2848	82.5	11.0	58.9

AgriPro	64	SY576	82.0	11.0	58.5
VCIA	65	Liberty 5658	81.5	11.2	57.8
Pioneer	66	25R74	80.6	11.2	56.4
MeherrinAg	67	SH4400	79.1	11.4	56.2
USG	68	3536	77.5	11.2	58.2

Bolded varieties do not significantly differ from top yielding variety

All yield data adjusted to 13.5% moisture

LSD P=.05	15.58
CV	12
Mean	93.2

2021 National Winter Malt Barley Trial

<u>Brand</u>	<u>Rank</u>	<u>Variety</u>	<u>Yield (Bu)</u>	<u>Moisture (Harvest)</u>	<u>Test Weight</u>
Secobra	1	Pixel	87.7	15.83	37.90
Oregon State University	2	DH141222	83.6	15.93	39.63
KWS	3	KWS Joyau	83.5	15.87	37.43
Secobra	4	Visuel	77.8	15.20	36.97
Ackermann	5	Hirondella	76.4	15.17	36.43
KWS	6	KWS Faro	76.0	15.30	39.10
Check	7	THOROUGHbred	75.8	15.30	40.37
Secobra	8	Dementiel	75.0	13.50	34.73
Oregon State University	9	DH141225	72.5	14.07	36.83
KWS	10	KWS Scala	71.8	13.57	34.03
Ackermann	11	Flavia	69.5	15.47	37.80
University of Nebraska-Lincoln	12	NB15420	68.5	12.30	35.93
KWS	13	KWS Somerset	68.3	13.87	35.70
Check	14	ENDEAVOR	67.4	14.93	35.57
Secobra	15	0214-007	67.3	13.90	37.50
Oregon State University	16	DH140963	66.4	14.10	33.97
Ohio State University	17	02WI-13	66.2	12.17	33.27
Secobra	18	SC 31450 TH	64.5	14.63	38.17
Oregon State University	19	DH141132	64.2	13.43	34.90
USDA-ARS, North Carolina	20	ARS15B12	63.3	15.50	39.10
Check	21	Violetta	62.7	14.10	38.30
USDA-ARS, Idaho	22	13ARS537-13	61.4	13.60	34.93
Virginia Tech	23	VA16M-84 2R	61.0	14.43	38.87
USDA-ARS, Idaho	24	13ARS537-25	60.3	14.50	34.77
Virginia Tech	25	Avalon (VA16M-81 2R)	59.4	15.63	40.23
Check	26	WINTMALT	*54.7	13.97	30.87
Check	27	CHARLES	*51.2	14.43	31.13
USDA-ARS, Idaho	28	13ARS537-19	*43	14.80	35.67

* Indicates variety showed significant lodging at harvest

Bolded varieties do not statistically differ from the top yielding variety

All yield data adjusted to 13.5% moisture

Planted 10/2/2021

Harvested 6/25/2021

(N Sul) 1st app. 60 pounds 2/27/2021

(N Sul) 2nd app. 60 pounds 3/30/2021

LSD P=.05 13.73

CV 12.37

Mean 70.0

2021 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>
KWS	1	KWS Faro	95.2	15.2	38.4	21	1
Virginia Tech	2	Secretariat	91.2	14.3	38.3	20	3
Virginia Tech	3	Hirondella	90.6	13.1	34.0	21	1
KWS	4	KWS Joyau	88.7	14.3	34.8	20	1
Virginia Tech	5	Thoroughbred	82.0	13.1	37.2	23	3
KWS	6	KWS Somerset	81.8	13.8	36.5	21	2
Virginia Tech	7	Flavia	76.6	15.5	36.0	18	2
KWS	8	KWS Scala	76.4	11.9	34.0	18	2
Virginia Tech	9	Avalon	73.8	13.6	37.6	24	3
Virginia Tech	10	VA16M-84 2R	73.6	12.6	38.2	25	2
Virginia Tech	11	VA15H-73 2R	70.8	17.5	43.7	26	1
KWS	12	KWS Donau	68.5	14.0	36.3	18	4
Check	13	Violetta	63.3	13.1	38.1	19	4
Virginia Tech	14	Amaze 10	55.1	16.3	43.2	22	4
Virginia Tech	15	Nomini	*29.6	14.1	31.0	27	4
Virginia Tech	16	VA16BFHB-268 NA	*26.7	13.7	33.6	30	4

Bolded varieties do not statistically differ from the top yielding variety

All yield data adjusted to 13.5% moisture

* Indicates variety showed severe lodging and head loss at harvest

Planted 10/2/2021

Harvested 6/25/2021

(N Sul) 1st app. 60 pounds 2/27/2021

(N Sul) 2nd app. 60 pounds 3/30/2021

LSD P=.05 20.7

CV 17.3

Mean 77.7

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% down

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