

FACTSHEET 2022- 2023 MARYLAND STATEWIDE WHEAT YIELD TRIAL RESULTS

#	Brand	Variety	Statewide Average				Wye (WY)			Clarksville (CV)			Beltsville (BV)			Poplar Hills (PH)		
			Rank	Yield (% mean)	Yield (bu/A)	Test Weight (lbs)	Rank	Yield (bu/A)	Test Weight (lbs)	Rank	Yield (bu/A)	Test Weight (lbs)	Rank	Yield (bu/A)	Test Weight (lbs)	Rank	Yield (bu/A)	Test Weight (lbs)
1	UMD	MD16-463-6	1	109.1	158.8	60.7	11	176.9	64.8	10	166.9	58.5	14	140.5	59.1	12	150.7	60.3
2	UniSouth Genetics Inc	3661	2	108.6	158.1	61.5	20	170.9	65.1	1	186.2	59.0	29	133.4	59.8	42	142.0	62.0
3	Mid-Atlantic Seeds	MAS #86	3	108.2	157.4	61.0	4	184.8	64.4	9	167.3	59.1	39	131.0	60.2	24	146.7	60.4
4	Mid-Atlantic Seeds	MAS #155	4	107.0	155.7	61.9	12	176.1	65.5	25	155.5	60.2	2	147.7	62.3	33	143.6	59.7
5	UMD	MD447-4	5	106.3	154.7	61.6	57	158.1	67.0	13	159.6	59.1	6	143.9	58.1	5	157.1	62.0
6	UMD	MD447-3	6	106.0	154.3	60.0	1	188.7	66.9	90	128.4	55.2	3	145.8	58.1	†	†	†
7	Mid-Atlantic Seeds	MAS #139	7	105.9	154.2	61.8	2	187.7	65.4	15	158.4	59.9	34	132.0	61.6	56	138.4	60.3
8	AgriPro	GP543	8	105.3	153.3	60.8	54	158.6	63.9	3	177.8	57.3	11	141.2	61.2	65	135.5	61.1
9	UMD	MD1-9-8	9	105.3	153.2	60.3	45	161.4	62.7	21	156.6	58.7	8	142.2	59.3	10	152.6	60.4
10	Dyna-Gro	9172	10	105.2	153.2	62.3	7	181.0	64.8	37	151.3	61.4	18	138.3	62.7	41	142.1	60.1
11	Virginia Tech	16VDH-SRW03-023	11	105.1	153.0	60.9	9	179.2	65.9	48	148.5	57.5	20	137.8	59.1	25	146.6	61.2
12	AgriMAXX	503	12	105.1	153.0	61.4	87	142.8	64.7	6	170.6	59.8	12	141.0	59.5	4	157.6	61.7
13	UniSouth Genetics Inc	3363	13	104.9	152.6	62.4	10	178.2	65.9	60	146.1	59.1	7	143.8	63.5	38	142.4	61.3
14	UniSouth Genetics Inc	3352	14	104.8	152.6	62.3	16	172.9	65.2	27	154.4	61.5	15	139.5	62.3	34	143.4	60.3
15	UMD	MD1-9-37	15	104.8	152.5	59.6	14	175.0	62.9	18	157.6	56.8	37	131.6	58.6	29	145.9	60.1
16	UMD	MD4-98-16	16	104.7	152.4	61.5	46	161.4	65.5	32	153.3	59.6	48	128.7	57.7	2	166.1	63.2
17	UMD	MD16-463-12	17	104.7	152.3	59.8	36	165.0	64.9	71	140.3	56.7	4	145.0	58.5	3	159.1	59.0
18	Dyna-Gro	9120	18	104.4	151.9	62.9	3	186.8	66.8	23	156.0	59.2	80	119.5	62.6	31	145.4	63.1
19	GROMARK INC	FS 745	19	104.3	151.8	62.3	52	159.1	65.1	42	149.7	61.3	1	149.5	62.1	16	148.7	60.9
20	Mid-Atlantic Seeds	MAS #178	20	104.3	151.7	59.2	8	180.3	63.6	12	160.2	56.7	53	126.6	55.5	48	139.9	61.1
21	UMD	MD1-9-40	21	104.2	151.6	60.9	26	169.7	63.9	70	140.4	57.6	13	140.8	60.8	6	155.8	61.2
22	Southern Harvest	SH 5123	22	104.2	151.6	59.0	69	153.7	64.9	4	176.9	52.6	75	120.7	56.8	7	155.1	61.6
23	Mid-Atlantic Seeds	MAS #133	23	104.0	151.3	60.2	42	162.3	62.2	8	168.3	58.5	33	132.6	60.0	40	142.2	59.9
24	UMD	MD-16W58	24	103.4	150.5	62.7	82	149.0	64.6	69	140.9	60.7	9	141.7	62.9	1	170.2	62.7
25	UniSouth Genetics Inc	3673	25	103.1	150.1	59.2	61	156.6	65.0	2	178.1	52.3	28	133.4	58.5	73	132.2	61.0
26	Mid-Atlantic Seeds	MAS #164	26	103.0	149.9	60.6	81	149.6	64.7	5	173.3	60.2	16	139.0	59.1	59	137.6	58.4
27	Revere Seed	Revere 2148	27	102.6	149.4	60.8	5	184.2	65.0	7	169.3	56.6	77	120.6	60.4	88	123.4	60.9
28	Mid-Atlantic Seeds	MAS #143	28	102.6	149.3	62.4	6	182.9	65.6	20	156.7	61.7	57	125.7	62.6	74	131.8	59.7
29	UniSouth Genetics Inc	3329	29	102.4	149.0	61.6	41	162.8	64.8	33	153.0	60.2	25	134.4	60.9	30	145.8	60.4
30	AgriMAXX	514	30	102.2	148.8	61.6	43	162.0	63.9	22	156.4	60.3	40	130.1	61.6	23	146.7	60.7
31	Revere Seed	Revere 2169	31	102.2	148.7	62.2	34	165.6	64.9	11	160.6	61.8	31	133.2	62.0	67	135.4	59.9
32	UniSouth Genetics Inc	3472	32	102.0	148.5	62.6	17	171.8	64.7	43	149.1	62.1	41	130.0	63.2	35	143.3	60.4
33	UniSouth Genetics Inc	EXP 3904	33	101.5	147.7	61.8	35	165.1	65.8	41	150.8	58.5	50	127.4	60.7	21	147.5	62.3
34	Dyna-Gro	9151	34	101.5	147.7	63.8	24	170.2	68.0	46	148.9	61.9	72	121.1	63.3	14	150.5	62.1
35	Mid-Atlantic Seeds	MAS #316	35	101.3	147.5	61.0	19	171.1	64.1	28	154.1	58.7	45	129.2	60.5	64	135.6	60.5
36	Virginia Tech	17VDH-SRW05-169	36	101.2	147.3	63.1	30	168.1	65.5	17	157.6	63.4	58	125.7	62.1	58	137.9	61.3
37	AgriMAXX	513	37	101.0	146.9	62.3	77	151.5	67.0	66	141.9	58.5	5	144.0	60.6	15	150.3	63.0
38	AgriMAXX	525	38	100.9	146.9	62.2	58	157.7	64.3	38	151.2	60.9	23	136.2	62.4	37	142.5	61.3
39	Dyna-Gro	9231	39	100.7	146.5	63.0	15	174.9	65.8	63	145.6	61.1	66	123.2	63.5	39	142.3	61.5
40	AgriMAXX	516	40	100.5	146.3	61.7	37	163.9	64.7	59	146.2	59.7	46	129.0	62.2	27	146.2	60.3
41	Virginia Tech	VA19FHB-36	41	100.3	146.0	63.4	53	158.7	66.8	16	158.2	62.1	55	126.1	62.3	44	140.9	62.5
42	Revere Seed	Revere 2347	42	100.1	145.6	63.2	21	170.8	66.1	44	149.0	61.9	67	123.1	63.5	51	139.7	61.3
43	UMD	MD-16W148	43	100.0	145.6	61.5	66	154.8	64.8	49	148.3	59.1	36	131.7	59.2	20	147.5	62.9
44	Dyna-Gro	9422	44	100.0	145.5	61.3	60	156.7	65.3	51	148.0	58.9	44	129.3	61.1	19	148.1	59.9
45	UMD	MD1-9-20	45	99.9	145.3	62.7	27	169.5	65.6	78	136.8	59.7	52	126.8	63.6	17	148.3	61.7
46	GROMARK INC	FS 743	46	99.8	145.3	62.8	50	159.9	65.4	83	135.6	60.9	27	133.7	63.6	11	151.9	61.2
47	UMD	MD195-5	47	99.7	145.2	62.9	39	163.7	67.2	61	146.0	61.2	62	124.5	60.4	26	146.5	62.8
48	EPIX	EPIX 2356	48	99.7	145.1	62.3	73	153.1	65.2	52	147.8	60.4	30	133.3	62.7	28	146.2	60.7
49	UniSouth Genetics Inc	EXP 3574	49	99.7	145.1	59.7	33	166.2	63.9	87	133.5	55.1	10	141.3	59.0	53	139.3	60.8
50	Dyna-Gro	9393	50	99.6	145.0	59.0	13	175.7	65.3	65	142.8	49.8	82	118.8	59.3	36	142.7	61.7
51	EPIX	EPIX 1365	51	99.6	145.0	61.1	59	156.8	65.1	34	152.8	61.3	19	137.9	58.7	72	132.5	59.4

#	Brand	Variety	Rank	Yield (% mean)	Yield (bu/A)	Test Weight (lbs)	Rank	Yield (bu/A)	Test Weight (lbs)	Rank	Yield (bu/A)	Test Weight (lbs)	Rank	Yield (bu/A)	Test Weight (lbs)	Rank	Yield (bu/A)	Test Weight (lbs)
52	UniSouth Genetics Inc	3783	52	99.4	144.7	60.4	31	167.9	65.5	45	148.9	54.1	70	122.1	60.4	50	139.8	61.7
53	AgriPro	SY547	53	99.0	144.1	60.9	49	159.9	65.9	19	156.8	57.6	65	123.4	58.1	61	136.1	62.1
54	KWS	KWS 477	54	98.8	143.8	63.0	86	145.9	66.1	29	153.9	61.1	24	134.6	62.8	43	141.0	62.2
55	Southern Harvest	SH 4222	55	98.8	143.8	62.6	22	170.3	65.4	80	136.0	60.9	61	125.1	62.8	32	143.7	61.4
56	Helena Agri-Ent.	MBX 127	56	98.7	143.7	61.8	62	156.0	64.8	35	152.6	61.6	17	138.5	61.0	83	127.8	59.8
57	UniSouth Genetics Inc	3234	57	98.7	143.7	62.9	25	169.8	66.9	79	136.7	58.6	26	134.1	62.6	70	134.0	63.5
58	AgriPro	GP381	58	98.3	143.1	57.7	28	169.2	65.1	81	135.9	43.7	51	127.2	59.9	47	140.0	62.1
59	Southern Harvest	SH 9520	59	98.2	142.9	62.2	18	171.7	64.9	72	139.5	59.4	78	120.3	62.8	46	140.1	61.8
60	EPIX	EPIX 4372	60	98.0	142.6	62.0	38	163.9	65.0	84	135.5	61.1	22	136.8	61.7	69	134.2	60.1
61	UMD	MD447-2	61	97.5	142.0	63.3	29	169.0	66.3	91	124.8	62.8	56	125.9	62.3	18	148.2	62.0
62	Virginia Tech	15VTK-1-101	62	97.5	141.9	62.3	63	155.7	65.7	57	146.8	60.9	59	125.5	60.3	49	139.8	62.5
63	Mid-Atlantic Seeds	MAS #106	63	97.4	141.8	61.0	71	153.3	66.0	64	144.3	57.9	83	115.9	58.1	8	153.9	62.1
64	Dyna-Gro	9290	64	97.3	141.6	60.2	32	166.3	65.0	75	137.5	55.9	54	126.6	59.7	63	135.9	60.1
65	UMD	MD4-98-23	65	97.2	141.5	62.8	76	151.9	66.1	55	147.1	61.1	85	114.2	61.8	9	152.9	62.3
66	KWS	KWS 459	66	97.0	141.2	61.2	51	159.8	65.4	36	152.5	57.3	69	122.7	60.9	79	129.7	61.4
67	EPIX	EPIX 2392	67	96.8	141.0	63.5	78	151.2	65.5	47	148.9	64.1	32	132.7	63.0	77	131.1	61.2
68	Helena Agri-Ent.	MBX 223	68	96.8	140.9	61.7	84	146.9	65.8	30	153.8	59.6	38	131.5	61.0	76	131.3	60.3
69	Helena Agri-Ent.	MBX 230	69	96.6	140.6	63.1	70	153.4	65.4	77	137.0	61.6	71	121.4	63.8	13	150.6	61.5
70	Revere Seed	Revere 2277	70	96.4	140.3	62.0	67	154.6	64.7	62	145.7	59.2	35	131.7	62.5	81	129.2	61.6
71	UMD	MD4-98-19	71	96.4	140.2	60.5	68	154.2	64.5	26	154.7	58.2	90	111.7	56.1	45	140.4	63.1
72	AgriMAXX	535	72	96.3	140.2	62.8	74	152.9	66.7	89	132.0	59.0	21	137.5	62.3	57	138.4	63.0
73	Helena Agri-Ent.	MBX 245	73	96.2	140.0	60.3	75	152.6	62.6	39	151.0	56.2	73	121.0	60.9	66	135.4	61.3
74	Dyna-Gro	9481	74	96.1	139.9	59.9	48	160.0	64.3	53	147.7	55.4	47	129.0	59.5	90	122.9	60.4
75	EPIX	EPIX 1375	75	96.0	139.7	61.4	65	155.2	66.9	31	153.5	56.4	76	120.7	59.0	80	129.3	63.2
76	KWS	KWS 495	76	95.9	139.6	62.1	79	150.2	65.3	24	155.6	61.5	60	125.4	59.7	84	127.3	61.7
77	Southern Harvest	SH 7200	77	95.8	139.4	61.8	23	170.2	64.7	68	141.1	60.4	89	112.4	60.3	71	133.9	61.8
78	VCIA	Liberty 5658	78	95.3	138.7	62.0	40	163.0	65.6	54	147.6	57.6	87	113.1	62.0	78	131.0	63.0
79	Mid-Atlantic Seeds	MAS #190	79	95.2	138.5	61.2	55	158.4	62.4	67	141.2	59.6	84	115.4	62.0	54	139.2	60.8
80	Helena Agri-Ent.	MBX 176	80	94.7	137.9	58.8	80	150.0	63.1	82	135.9	54.8	43	129.8	57.6	62	135.9	59.9
81	Mid-Atlantic Seeds	MAS #2	81	94.7	137.8	62.2	44	161.5	65.0	73	138.6	60.0	49	127.6	61.7	87	123.6	62.2
82	Mid-Atlantic Seeds	MAS #67	82	94.7	137.8	58.4	56	158.3	64.5	56	147.0	55.5	79	119.8	54.6	85	126.1	58.9
83	UniSouth Genetics Inc	3463.0	83	94.2	137.2	60.4	72	153.1	64.1	40	150.8	58.3	88	113.0	59.1	75	131.7	60.2
84	GROMARK INC	FS 597	84	94.2	137.1	60.5	88	142.1	65.1	76	137.4	57.2	42	129.8	59.1	55	139.0	60.4
85	Virginia Tech	14VDH-HRW02-027	85	93.9	136.7	62.9	83	148.9	66.4	74	137.6	60.6	74	120.8	62.1	52	139.4	62.5
86	AgriMAXX	505.0	86	93.6	136.3	61.3	47	161.3	68.7	88	133.1	51.7	68	122.7	62.1	82	128.0	62.8
87	UniSouth Genetics Inc	3000.0	87	93.2	135.6	60.1	91	136.4	66.1	14	159.5	53.7	64	123.5	58.1	89	123.2	62.7
88	UMD	UMD-21-MDX17	88	93.1	135.5	62.1	64	155.5	68.0	85	134.1	59.7	91	105.0	59.0	22	147.3	61.8
89	Mid-Atlantic Seeds	MAS #189	89	93.0	135.3	62.7	90	136.6	67.1	58	146.7	59.1	63	123.7	61.7	68	134.2	63.0
90	GROMARK INC	FS 891	90	91.4	133.0	62.5	89	139.2	65.5	50	148.0	61.4	81	118.9	61.8	86	126.1	61.5
91	Helena Agri-Ent.	MBX 120	91	91.1	132.6	61.5	85	146.6	64.8	86	133.8	56.9	86	113.2	62.2	60	137.0	62.2
			Mean		145.5	61.5		162.3	65.3		149.7	58.7		129.1	60.7		141.0	61.3
			CV (%)		4.2	2.1		7.2	1.8		7.8	5.3		7.2	3.3		6.7	1.8
			LSD (α=0.05)		*	*		15.9	1.1		22.3	7.6		26.4	2.8		21.4	1.0

† = Data not available from Poplar Hill

All the yield data and test weights are reported at the 13.5% grain moisture content

Bold values indicate no significant difference from top ranked entry at a given trial location

* Heading Date and Height are Averaged from WY, CV, and BV

Notes: Underlined cultivars will be available in 2024 for commercialization

LSD was calculated without p-value adjustment, resulting in more stringent significance

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<https://psla.umd.edu/extension/md-crops/small-grains-maryland>

2022- 2023 MARYLAND STATEWIDE WHEAT YIELD TRIAL RESULTS FROM FOUR DIFFERENT TRIAL LOCATIONS																				
#	Wye (WY)					Clarksville (CV)					Beltsville (BV)					Poplar Hills (PH)				
	Brand	Variety	Rank	Yield (bu/A)	Test Weight (lbs)	Brand	Variety	Rank	Yield (bu/A)	Test Weight (lbs)	Brand	Variety	Rank	Yield (bu/A)	Test Weight (lbs)	Brand	Variety	Rank	Yield (bu/A)	Test Weight (lbs)
1	UMD	MD447-3	1	<u>188.7</u>	66.9	UniSouth Genetics Inc	3661	1	<u>186.2</u>	59.0	GROMARK INC	FS 745	1	<u>149.5</u>	62.1	UMD	MD-16W58	1	<u>170.2</u>	62.7
2	Mid-Atlantic Seeds	MAS #139	2	<u>187.7</u>	65.4	UniSouth Genetics Inc	3673	2	<u>178.1</u>	52.3	Mid-Atlantic Seeds	MAS #155	2	<u>147.7</u>	62.3	UMD	MD4-98-16	2	<u>166.1</u>	63.2
3	Dyna-Gro	9120	3	<u>186.8</u>	66.8	AgriPro	GP543	3	<u>177.8</u>	57.3	UMD	MD447-3	3	<u>145.8</u>	58.1	UMD	MD16-463-12	3	<u>159.1</u>	59.0
4	Mid-Atlantic Seeds	MAS #86	4	<u>184.8</u>	64.4	Southern Harvest	SH 5123	4	<u>176.9</u>	52.6	UMD	MD16-463-12	4	<u>145.0</u>	58.5	AgriMAXX	503	4	<u>157.6</u>	61.7
5	Revere Seed	Revere 2148	5	<u>184.2</u>	65.0	Mid-Atlantic Seeds	MAS #164	5	<u>173.3</u>	60.2	AgriMAXX	513	5	<u>144.0</u>	60.6	UMD	MD447-4	5	<u>157.1</u>	62.0
6	Mid-Atlantic Seeds	MAS #143	6	<u>182.9</u>	65.6	AgriMAXX	503	6	<u>170.6</u>	59.8	UMD	MD447-4	6	<u>143.9</u>	58.1	UMD	MD1-9-40	6	<u>155.8</u>	61.2
7	Dyna-Gro	9172	7	<u>181.0</u>	64.8	Revere Seed	Revere 2148	7	<u>169.3</u>	56.6	UniSouth Genetics Inc	3363	7	<u>143.8</u>	63.5	Southern Harvest	SH 5123	7	<u>155.1</u>	61.6
8	Mid-Atlantic Seeds	MAS #178	8	<u>180.3</u>	63.6	Mid-Atlantic Seeds	MAS #133	8	<u>168.3</u>	58.5	UMD	MD1-9-8	8	<u>142.2</u>	59.3	Mid-Atlantic Seeds	MAS #106	8	<u>153.9</u>	62.1
9	Virginia Tech	16VDH-SRW03-023	9	<u>179.2</u>	65.9	Mid-Atlantic Seeds	MAS #86	9	<u>167.3</u>	59.1	UMD	MD-16W58	9	<u>141.7</u>	62.9	UMD	MD4-98-23	9	<u>152.9</u>	62.3
10	UniSouth Genetics Inc	3363	10	<u>178.2</u>	65.9	UMD	MD16-463-6	10	<u>166.9</u>	58.5	UniSouth Genetics Inc	EXP 3574	10	<u>141.3</u>	59.0	UMD	MD1-9-8	10	<u>152.6</u>	60.4
11	UMD	MD16-463-6	11	<u>176.9</u>	64.8	Revere Seed	Revere 2169	11	160.6	61.8	AgriPro	GP543	11	<u>141.2</u>	61.2	GROMARK INC	FS 743	11	<u>151.9</u>	61.2
12	Mid-Atlantic Seeds	MAS #155	12	<u>176.1</u>	65.5	Mid-Atlantic Seeds	MAS #178	12	160.2	56.7	AgriMAXX	503	12	<u>141.0</u>	59.5	UMD	MD16-463-6	12	<u>150.7</u>	60.3
13	Dyna-Gro	9393	13	<u>175.7</u>	65.3	UMD	MD447-4	13	159.6	59.1	UMD	MD1-9-40	13	<u>140.8</u>	60.8	Helena Agri-Ent.	MBX 230	13	<u>150.6</u>	61.5
14	UMD	MD1-9-37	14	<u>175.0</u>	62.9	UniSouth Genetics Inc	3000.0	14	159.5	53.7	UMD	MD16-463-6	14	<u>140.5</u>	59.1	Dyna-Gro	9151	14	<u>150.5</u>	62.1
15	Dyna-Gro	9231	15	<u>174.9</u>	65.8	Mid-Atlantic Seeds	MAS #139	15	158.4	59.9	UniSouth Genetics Inc	3352	15	<u>139.5</u>	62.3	AgriMAXX	513	15	<u>150.3</u>	63.0
16	UniSouth Genetics Inc	3352	16	172.9	65.2	Virginia Tech	VA19FHB-36	16	158.2	62.1	Mid-Atlantic Seeds	MAS #164	16	<u>139.0</u>	59.1	GROMARK INC	FS 745	16	148.7	60.9
17	UniSouth Genetics Inc	3472	17	171.8	64.7	Virginia Tech	17VDH-SRW05-169	17	157.6	63.4	Helena Agri-Ent.	MBX 127	17	<u>138.5</u>	61.0	UMD	MD1-9-20	17	148.3	61.7
18	Southern Harvest	SH 9520	18	171.7	64.9	UMD	MD1-9-37	18	157.6	56.8	Dyna-Gro	9172	18	<u>138.3</u>	62.7	UMD	MD447-2	18	148.2	62.0
19	Mid-Atlantic Seeds	MAS #316	19	171.1	64.1	AgriPro	SY547	19	156.8	57.6	EPIX	EPIX 1365	19	<u>137.9</u>	58.7	Dyna-Gro	9422	19	148.1	59.9
20	UniSouth Genetics Inc	3661	20	170.9	65.1	Mid-Atlantic Seeds	MAS #143	20	156.7	61.7	Virginia Tech	16VDH-SRW03-023	20	<u>137.8</u>	59.1	UMD	MD-16W148	20	147.5	62.9
21	Revere Seed	Revere 2347	21	170.8	66.1	UMD	MD1-9-8	21	156.6	58.7	AgriMAXX	535	21	<u>137.5</u>	62.3	UniSouth Genetics Inc	EXP 3904	21	147.5	62.3
22	Southern Harvest	SH 4222	22	170.3	65.4	AgriMAXX	514	22	156.4	60.3	EPIX	EPIX 4372	22	<u>136.8</u>	61.7	UMD	UMD-21-MDX17	22	147.3	61.8
23	Southern Harvest	SH 7200	23	170.2	64.7	Dyna-Gro	9120	23	156.0	59.2	AgriMAXX	525	23	<u>136.2</u>	62.4	AgriMAXX	514	23	146.7	60.7
24	Dyna-Gro	9151	24	170.2	68.0	KWS	KWS 495	24	155.6	61.5	KWS	KWS 477	24	<u>134.6</u>	62.8	Mid-Atlantic Seeds	MAS #86	24	146.7	60.4
25	UniSouth Genetics Inc	3234	25	169.8	66.9	Mid-Atlantic Seeds	MAS #155	25	155.5	60.2	UniSouth Genetics Inc	3329	25	<u>134.4</u>	60.9	Virginia Tech	16VDH-SRW03-023	25	146.6	61.2

#	Wye (WY)					Clarksville (CV)					Beltsville (BV)					Poplar Hills (PH)				
	Brand	Variety	Rank	Yield (bu/A)	Test Weight (lbs)	Brand	Variety	Rank	Yield (bu/A)	Test Weight (lbs)	Brand	Variety	Rank	Yield (bu/A)	Test Weight (lbs)	Brand	Variety	Rank	Yield (bu/A)	Test Weight (lbs)
26	UMD	MD1-9-40	26	169.7	63.9	UMD	MD4-98-19	26	154.7	58.2	UniSouth Genetics Inc	3234	26	<u>134.1</u>	62.6	UMD	MD195-5	26	146.5	62.8
27	UMD	MD1-9-20	27	169.5	65.6	UniSouth Genetics Inc	3352	27	154.4	61.5	GROMARK INC	FS 743	27	<u>133.7</u>	63.6	AgriMAXX	516	27	146.2	60.3
28	AgriPro	GP381	28	169.2	65.1	Mid-Atlantic Seeds	MAS #316	28	154.1	58.7	UniSouth Genetics Inc	3673	28	<u>133.4</u>	58.5	EPIX	EPIX 2356	28	146.2	60.7
29	UMD	MD447-2	29	169.0	66.3	KWS	KWS 477	29	153.9	61.1	UniSouth Genetics Inc	3661	29	<u>133.4</u>	59.8	UMD	MD1-9-37	29	145.9	60.1
30	Virginia Tech	17VDH-SRW05-169	30	168.1	65.5	Helena Agri-Ent.	MBX 223	30	153.8	59.6	EPIX	EPIX 2356	30	<u>133.3</u>	62.7	UniSouth Genetics Inc	3329	30	145.8	60.4
31	UniSouth Genetics Inc	3783	31	167.9	65.5	EPIX	EPIX 1375	31	153.5	56.4	Revere Seed	Revere 2169	31	<u>133.2</u>	62.0	Dyna-Gro	9120	31	145.4	63.1
32	Dyna-Gro	9290	32	166.3	65.0	UMD	MD4-98-16	32	153.3	59.6	EPIX	EPIX 2392	32	<u>132.7</u>	63.0	Southern Harvest	SH 4222	32	143.7	61.4
33	UniSouth Genetics Inc	EXP 3574	33	166.2	63.9	UniSouth Genetics Inc	3329	33	153.0	60.2	Mid-Atlantic Seeds	MAS #133	33	<u>132.6</u>	60.0	Mid-Atlantic Seeds	MAS #155	33	143.6	59.7
34	Revere Seed	Revere 2169	34	165.6	64.9	EPIX	EPIX 1365	34	152.8	61.3	Mid-Atlantic Seeds	MAS #139	34	<u>132.0</u>	61.6	UniSouth Genetics Inc	3352	34	143.4	60.3
35	UniSouth Genetics Inc	EXP 3904	35	165.1	65.8	Helena Agri-Ent.	MBX 127	35	152.6	61.6	Revere Seed	Revere 2277	35	<u>131.7</u>	62.5	UniSouth Genetics Inc	3472	35	143.3	60.4
36	UMD	MD16-463-12	36	165.0	64.9	KWS	KWS 459	36	152.5	57.3	UMD	MD-16W148	36	<u>131.7</u>	59.2	Dyna-Gro	9393	36	142.7	61.7
37	AgriMAXX	516	37	163.9	64.7	Dyna-Gro	9172	37	151.3	61.4	UMD	MD1-9-37	37	<u>131.6</u>	58.6	AgriMAXX	525	37	142.5	61.3
38	EPIX	EPIX 4372	38	163.9	65.0	AgriMAXX	525	38	151.2	60.9	Helena Agri-Ent.	MBX 223	38	<u>131.5</u>	61.0	UniSouth Genetics Inc	3363	38	142.4	61.3
39	UMD	MD195-5	39	163.7	67.2	Helena Agri-Ent.	MBX 245	39	151.0	56.2	Mid-Atlantic Seeds	MAS #86	39	<u>131.0</u>	60.2	Dyna-Gro	9231	39	142.3	61.5
40	VCIA	Liberty 5658	40	163.0	65.6	UniSouth Genetics Inc	3463.0	40	150.8	58.3	AgriMAXX	514	40	<u>130.1</u>	61.6	Mid-Atlantic Seeds	MAS #133	40	142.2	59.9
41	UniSouth Genetics Inc	3329	41	162.8	64.8	UniSouth Genetics Inc	EXP 3904	41	150.8	58.5	UniSouth Genetics Inc	3472	41	<u>130.0</u>	63.2	Dyna-Gro	9172	41	142.1	60.1
42	Mid-Atlantic Seeds	MAS #133	42	162.3	62.2	GROMARK INC	FS 745	42	149.7	61.3	GROMARK INC	FS 597	42	<u>129.8</u>	59.1	UniSouth Genetics Inc	3661	42	142.0	62.0
43	AgriMAXX	514	43	162.0	63.9	UniSouth Genetics Inc	3472	43	149.1	62.1	Helena Agri-Ent.	MBX 176	43	<u>129.8</u>	57.6	KWS	KWS 477	43	141.0	62.2
44	Mid-Atlantic Seeds	MAS #2	44	161.5	65.0	Revere Seed	Revere 2347	44	149.0	61.9	Dyna-Gro	9422	44	<u>129.3</u>	61.1	Virginia Tech	VA19FHB-36	44	140.9	62.5
45	UMD	MD1-9-8	45	161.4	62.7	UniSouth Genetics Inc	3783	45	148.9	54.1	Mid-Atlantic Seeds	MAS #316	45	<u>129.2</u>	60.5	UMD	MD4-98-19	45	140.4	63.1
46	UMD	MD4-98-16	46	161.4	65.5	Dyna-Gro	9151	46	148.9	61.9	AgriMAXX	516	46	<u>129.0</u>	62.2	Southern Harvest	SH 9520	46	140.1	61.8
47	AgriMAXX	505.0	47	161.3	68.7	EPIX	EPIX 2392	47	148.9	64.1	Dyna-Gro	9481	47	<u>129.0</u>	59.5	AgriPro	GP381	47	140.0	62.1
48	Dyna-Gro	9481	48	160.0	64.3	Virginia Tech	16VDH-SRW03-023	48	148.5	57.5	UMD	MD4-98-16	48	<u>128.7</u>	57.7	Mid-Atlantic Seeds	MAS #178	48	139.9	61.1
49	AgriPro	SY547	49	159.9	65.9	UMD	MD-16W148	49	148.3	59.1	Mid-Atlantic Seeds	MAS #2	49	<u>127.6</u>	61.7	Virginia Tech	15VTK-1-101	49	139.8	62.5
50	GROMARK INC	FS 743	50	159.9	65.4	GROMARK INC	FS 891	50	148.0	61.4	UniSouth Genetics Inc	EXP 3904	50	<u>127.4</u>	60.7	UniSouth Genetics Inc	3783	50	139.8	61.7
51	KWS	KWS 459	51	159.8	65.4	Dyna-Gro	9422	51	148.0	58.9	AgriPro	GP381	51	<u>127.2</u>	59.9	Revere Seed	Revere 2347	51	139.7	61.3
52	GROMARK INC	FS 745	52	159.1	65.1	EPIX	EPIX 2356	52	147.8	60.4	UMD	MD1-9-20	52	<u>126.8</u>	63.6	Virginia Tech	14VDH-HRW02-027	52	139.4	62.5

#	Wye (WY)					Clarksville (CV)					Beltsville (BV)					Poplar Hills (PH)				
	Brand	Variety	Rank	Yield (bu/A)	Test Weight (lbs)	Brand	Variety	Rank	Yield (bu/A)	Test Weight (lbs)	Brand	Variety	Rank	Yield (bu/A)	Test Weight (lbs)	Brand	Variety	Rank	Yield (bu/A)	Test Weight (lbs)
53	Virginia Tech	VA19FHB-36	53	158.7	66.8	Dyna-Gro	9481	53	147.7	55.4	Mid-Atlantic Seeds	MAS #178	53	<u>126.6</u>	55.5	UniSouth Genetics Inc	EXP 3574	53	139.3	60.8
54	AgriPro	GP543	54	158.6	63.9	VCIA	Liberty 5658	54	147.6	57.6	Dyna-Gro	9290	54	<u>126.6</u>	59.7	Mid-Atlantic Seeds	MAS #190	54	139.2	60.8
55	Mid-Atlantic Seeds	MAS #190	55	158.4	62.4	UMD	MD4-98-23	55	147.1	61.1	Virginia Tech	VA19FHB-36	55	<u>126.1</u>	62.3	GROMARK INC	FS 597	55	139.0	60.4
56	Mid-Atlantic Seeds	MAS #67	56	158.3	64.5	Mid-Atlantic Seeds	MAS #67	56	147.0	55.5	UMD	MD447-2	56	<u>125.9</u>	62.3	Mid-Atlantic Seeds	MAS #139	56	138.4	60.3
57	UMD	MD447-4	57	158.1	67.0	Virginia Tech	15VTK-1-101	57	146.8	60.9	Mid-Atlantic Seeds	MAS #143	57	<u>125.7</u>	62.6	AgriMAXX	535	57	138.4	63.0
58	AgriMAXX	525	58	157.7	64.3	Mid-Atlantic Seeds	MAS #189	58	146.7	59.1	Virginia Tech	17VDH-SRW05-169	58	<u>125.7</u>	62.1	Virginia Tech	17VDH-SRW05-169	58	137.9	61.3
59	EPIX	EPIX 1365	59	156.8	65.1	AgriMAXX	516	59	146.2	59.7	Virginia Tech	15VTK-1-101	59	<u>125.5</u>	60.3	Mid-Atlantic Seeds	MAS #164	59	137.6	58.4
60	Dyna-Gro	9422	60	156.7	65.3	UniSouth Genetics Inc	3363	60	146.1	59.1	KWS	KWS 495	60	<u>125.4</u>	59.7	Helena Agri-Ent.	MBX 120	60	137.0	62.2
61	UniSouth Genetics Inc	3673	61	156.6	65.0	UMD	MD195-5	61	146.0	61.2	Southern Harvest	SH 4222	61	<u>125.1</u>	62.8	AgriPro	SY547	61	136.1	62.1
62	Helena Agri-Ent.	MBX 127	62	156.0	64.8	Revere Seed	Revere 2277	62	145.7	59.2	UMD	MD195-5	62	<u>124.5</u>	60.4	Helena Agri-Ent.	MBX 176	62	135.9	59.9
63	Virginia Tech	15VTK-1-101	63	155.7	65.7	Dyna-Gro	9231	63	145.6	61.1	Mid-Atlantic Seeds	MAS #189	63	123.7	61.7	Dyna-Gro	9290	63	135.9	60.1
64	UMD	UMD-21-MDX17	64	155.5	68.0	Mid-Atlantic Seeds	MAS #106	64	144.3	57.9	UniSouth Genetics Inc	3000.0	64	123.5	58.1	Mid-Atlantic Seeds	MAS #316	64	135.6	60.5
65	EPIX	EPIX 1375	65	155.2	66.9	Dyna-Gro	9393	65	142.8	49.8	AgriPro	SY547	65	123.4	58.1	AgriPro	GP543	65	135.5	61.1
66	UMD	MD-16W148	66	154.8	64.8	AgriMAXX	513	66	141.9	58.5	Dyna-Gro	9231	66	123.2	63.5	Helena Agri-Ent.	MBX 245	66	135.4	61.3
67	Revere Seed	Revere 2277	67	154.6	64.7	Mid-Atlantic Seeds	MAS #190	67	141.2	59.6	Revere Seed	Revere 2347	67	123.1	63.5	Revere Seed	Revere 2169	67	135.4	59.9
68	UMD	MD4-98-19	68	154.2	64.5	Southern Harvest	SH 7200	68	141.1	60.4	AgriMAXX	505.0	68	122.7	62.1	Mid-Atlantic Seeds	MAS #189	68	134.2	63.0
69	Southern Harvest	SH 5123	69	153.7	64.9	UMD	MD-16W58	69	140.9	60.7	KWS	KWS 459	69	122.7	60.9	EPIX	EPIX 4372	69	134.2	60.1
70	Helena Agri-Ent.	MBX 230	70	153.4	65.4	UMD	MD1-9-40	70	140.4	57.6	UniSouth Genetics Inc	3783	70	122.1	60.4	UniSouth Genetics Inc	3234	70	134.0	63.5
71	Mid-Atlantic Seeds	MAS #106	71	153.3	66.0	UMD	MD16-463-12	71	140.3	56.7	Helena Agri-Ent.	MBX 230	71	121.4	63.8	Southern Harvest	SH 7200	71	133.9	61.8
72	UniSouth Genetics Inc	3463.0	72	153.1	64.1	Southern Harvest	SH 9520	72	139.5	59.4	Dyna-Gro	9151	72	121.1	63.3	EPIX	EPIX 1365	72	132.5	59.4
73	EPIX	EPIX 2356	73	153.1	65.2	Mid-Atlantic Seeds	MAS #2	73	138.6	60.0	Helena Agri-Ent.	MBX 245	73	121.0	60.9	UniSouth Genetics Inc	3673	73	132.2	61.0
74	AgriMAXX	535	74	152.9	66.7	Virginia Tech	14VDH-HRW02-027	74	137.6	60.6	Virginia Tech	14VDH-HRW02-027	74	120.8	62.1	Mid-Atlantic Seeds	MAS #143	74	131.8	59.7
75	Helena Agri-Ent.	MBX 245	75	152.6	62.6	Dyna-Gro	9290	75	137.5	55.9	Southern Harvest	SH 5123	75	120.7	56.8	UniSouth Genetics Inc	3463.0	75	131.7	60.2
76	UMD	MD4-98-23	76	151.9	66.1	GROMARK INC	FS 597	76	137.4	57.2	EPIX	EPIX 1375	76	120.7	59.0	Helena Agri-Ent.	MBX 223	76	131.3	60.3
77	AgriMAXX	513	77	151.5	67.0	Helena Agri-Ent.	MBX 230	77	137.0	61.6	Revere Seed	Revere 2148	77	120.6	60.4	EPIX	EPIX 2392	77	131.1	61.2
78	EPIX	EPIX 2392	78	151.2	65.5	UMD	MD1-9-20	78	136.8	59.7	Southern Harvest	SH 9520	78	120.3	62.8	VCIA	Liberty 5658	78	131.0	63.0
79	KWS	KWS 495	79	150.2	65.3	UniSouth Genetics Inc	3234	79	136.7	58.6	Mid-Atlantic Seeds	MAS #67	79	119.8	54.6	KWS	KWS 459	79	129.7	61.4

#	Wye (WY)					Clarksville (CV)					Beltsville (BV)					Poplar Hills (PH)				
	Brand	Variety	Rank	Yield (bu/A)	Test Weight (lbs)	Brand	Variety	Rank	Yield (bu/A)	Test Weight (lbs)	Brand	Variety	Rank	Yield (bu/A)	Test Weight (lbs)	Brand	Variety	Rank	Yield (bu/A)	Test Weight (lbs)
80	Helena Agri-Ent.	MBX 176	80	150.0	63.1	Southern Harvest	SH 4222	80	136.0	60.9	Dyna-Gro	9120	80	119.5	62.6	EPIX	EPIX 1375	80	129.3	63.2
81	Mid-Atlantic Seeds	MAS #164	81	149.6	64.7	AgriPro	GP381	81	135.9	43.7	GROMARK INC	FS 891	81	118.9	61.8	Revere Seed	Revere 2277	81	129.2	61.6
82	UMD	MD-16W58	82	149.0	64.6	Helena Agri-Ent.	MBX 176	82	135.9	54.8	Dyna-Gro	9393	82	118.8	59.3	AgriMAXX	505.0	82	128.0	62.8
83	Virginia Tech	14VDH-HRW02-027	83	148.9	66.4	GROMARK INC	FS 743	83	135.6	60.9	Mid-Atlantic Seeds	MAS #106	83	115.9	58.1	Helena Agri-Ent.	MBX 127	83	127.8	59.8
84	Helena Agri-Ent.	MBX 223	84	146.9	65.8	EPIX	EPIX 4372	84	135.5	61.1	Mid-Atlantic Seeds	MAS #190	84	115.4	62.0	KWS	KWS 495	84	127.3	61.7
85	Helena Agri-Ent.	MBX 120	85	146.6	64.8	UMD	UMD-21-MDX17	85	134.1	59.7	UMD	MD4-98-23	85	114.2	61.8	Mid-Atlantic Seeds	MAS #67	85	126.1	58.9
86	KWS	KWS 477	86	145.9	66.1	Helena Agri-Ent.	MBX 120	86	133.8	56.9	Helena Agri-Ent.	MBX 120	86	113.2	62.2	GROMARK INC	FS 891	86	126.1	61.5
87	AgriMAXX	503	87	142.8	64.7	UniSouth Genetics Inc	EXP 3574	87	133.5	55.1	VCIA	Liberty 5658	87	113.1	62.0	Mid-Atlantic Seeds	MAS #2	87	123.6	62.2
88	GROMARK INC	FS 597	88	142.1	65.1	AgriMAXX	505.0	88	133.1	51.7	UniSouth Genetics Inc	3463.0	88	113.0	59.1	Revere Seed	Revere 2148	88	123.4	60.9
89	GROMARK INC	FS 891	89	139.2	65.5	AgriMAXX	535	89	132.0	59.0	Southern Harvest	SH 7200	89	112.4	60.3	UniSouth Genetics Inc	3000.0	89	123.2	62.7
90	Mid-Atlantic Seeds	MAS #189	90	136.6	67.1	UMD	MD447-3	90	128.4	55.2	UMD	MD4-98-19	90	111.7	56.1	Dyna-Gro	9481	90	122.9	60.4
91	UniSouth Genetics Inc	3000.0	91	136.4	66.1	UMD	MD447-2	91	124.8	62.8	UMD	UMD-21-MDX17	91	105.0	59.0	UMD	MD447-3	†	†	†
		Mean		162.3	65.3		Mean		149.7	58.7		Mean		129.1	60.7		Mean		141.0	61.3
		CV (%)		7.2	1.8		CV (%)		7.8	5.3		CV (%)		7.2	3.3		CV (%)		6.7	1.8
		LSD ($\alpha=0.05$)		15.5	1.0		LSD ($\alpha=0.05$)		21.7	7.4		LSD ($\alpha=0.05$)		25.7	2.8		LSD ($\alpha=0.05$)		21.4	1.0
<p>Notes <i>Bold and underlined values indicate no significant difference from top ranked entry at each of the trial location</i> <i>Wheat variety trial at Wye was treated with fungicide Miravice Ace</i> LSD was calculated without p-value adjustment, resulting in more stringent significance</p>																				

FACTSHEET 2022-2023 MD WHEAT TRIALS: AGRONOMIC CHARACTERISTICS AND DISEASE DATA**

#	Brand	Variety	Rank	Yield (% mean)	Yield (bu/A)	Test Weight (lbs)	Heading Date (Julian)	Height (in)	Leaf Rust (1-9)	Glume Blotch (1-9)	Powdery Mildew (1-9)	BYDV (1-9)
1	UMD	<u>MD16-463-6</u>	1	109.1	158.8	60.7	120.7	37.1	0	2	0	2
2	UniSouth Genetics Inc	3661	2	108.6	158.1	61.5	120.6	33.7	0	1	1	2
3	Mid-Atlantic Seeds	MAS #86	3	108.2	157.4	61.0	120.0	38.1	1	4	0	2
4	Mid-Atlantic Seeds	MAS #155	4	107.0	155.7	61.9	121.0	37.1	2	2	1	1
5	UMD	<u>MD447-4</u>	5	106.3	154.7	61.6	119.6	36.9	0	2	1	0
6	UMD	<u>MD447-3</u>	6	106.0	154.3	60.0	120.4	36.1	0	3	1	1
7	Mid-Atlantic Seeds	MAS #139	7	105.9	154.2	61.8	120.7	35.2	3	3	1	0
8	AgriPro	GP543	8	105.3	153.3	60.8	118.4	38.6	2	1	1	2
9	UMD	<u>MD1-9-8</u>	9	105.3	153.2	60.3	121.7	38.8	0	0	0	0
10	Dyna-Gro	9172	10	105.2	153.2	62.3	121.0	35.9	0	3	1	1
11	Virginia Tech	16VDH-SRW03-023	11	105.1	153.0	60.9	119.4	36.4	1	2	0	0
12	AgriMAXX	503	12	105.1	153.0	61.4	120.6	38.4	1	5	0	0
13	UniSouth Genetics Inc	3363	13	104.9	152.6	62.4	120.4	35.4	1	2	1	1
14	UniSouth Genetics Inc	3352	14	104.8	152.6	62.3	122.4	36.8	1	3	1	1
15	UMD	<u>MD1-9-37</u>	15	104.8	152.5	59.6	118.8	34.3	0	0	1	2
16	UMD	<u>MD4-98-16</u>	16	104.7	152.4	61.5	119.4	33.6	0	2	1	1
17	UMD	<u>MD16-463-12</u>	17	104.7	152.3	59.8	117.1	33.9	5	2	1	3
18	Dyna-Gro	9120	18	104.4	151.9	62.9	118.3	35.6	0	8	0	0
19	GROMARK INC	FS 745	19	104.3	151.8	62.3	120.1	32.2	0	6	1	1
20	Mid-Atlantic Seeds	MAS #178	20	104.3	151.7	59.2	121.7	38.1	1	2	0	0
21	UMD	<u>MD1-9-40</u>	21	104.2	151.6	60.9	118.6	36.0	0	0	1	2
22	Southern Harvest	SH 5123	22	104.2	151.6	59.0	120.0	35.3	1	2	1	2
23	Mid-Atlantic Seeds	MAS #133	23	104.0	151.3	60.2	121.0	35.8	2	2	0	0
24	UMD	MD-16W58	24	103.4	150.5	62.7	119.7	36.0	0	4	0	1
25	UniSouth Genetics Inc	3673	25	103.1	150.1	59.2	120.4	36.2	1	1	0	0
26	Mid-Atlantic Seeds	MAS #164	26	103.0	149.9	60.6	121.8	35.0	1	0	0	1
27	Revere Seed	Revere 2148	27	102.6	149.4	60.8	121.2	38.8	0	3	1	2
28	Mid-Atlantic Seeds	MAS #143	28	102.6	149.3	62.4	120.7	35.5	1	2	1	2
29	UniSouth Genetics Inc	3329	29	102.4	149.0	61.6	120.2	37.1	1	7	1	1
30	AgriMAXX	514	30	102.2	148.8	61.6	120.0	36.7	1	6	1	1
31	Revere Seed	Revere 2169	31	102.2	148.7	62.2	120.4	37.0	0	5	0	2
32	UniSouth Genetics Inc	3472	32	102.0	148.5	62.6	119.8	35.4	1	4	0	0
33	UniSouth Genetics Inc	EXP 3904	33	101.5	147.7	61.8	121.6	35.7	0	4	1	2
34	Dyna-Gro	9151	34	101.5	147.7	63.8	120.6	37.3	1	8	1	3
35	Mid-Atlantic Seeds	MAS #316	35	101.3	147.5	61.0	121.1	37.8	1	3	1	2

#	Brand	Variety	Rank	Yield (% mean)	Yield (bu/A)	Test Weight (lbs)	Heading Date (Julian)	Height (in)	Leaf Rust (1-9)	Glume Blotch (1-9)	Powdery Mildew (1-9)	BYDV (1-9)
36	Virginia Tech	17VDH-SRW05-169	36	101.2	147.3	63.1	119.1	37.2	1	3	1	1
37	AgriMAXX	513	37	101.0	146.9	62.3	119.6	36.7	2	5	1	1
38	AgriMAXX	525	38	100.9	146.9	62.2	121.9	35.2	1	4	0	2
39	Dyna-Gro	9231	39	100.7	146.5	63.0	120.0	39.1	0	2	2	1
40	AgriMAXX	516	40	100.5	146.3	61.7	120.7	35.6	1	6	0	1
41	Virginia Tech	VA19FHB-36	41	100.3	146.0	63.4	118.9	39.0	1	5	1	3
42	Revere Seed	Revere 2347	42	100.1	145.6	63.2	120.4	38.5	1	2	2	2
43	UMD	MD-16W148	43	100.0	145.6	61.5	120.2	35.1	0	2	0	0
44	Dyna-Gro	9422	44	100.0	145.5	61.3	120.4	35.8	1	4	1	1
45	UMD	MD1-9-20	45	99.9	145.3	62.7	118.9	34.7	0	1	1	2
46	GROMARK INC	FS 743	46	99.8	145.3	62.8	119.8	37.8	1	5	1	1
47	UMD	MD195-5	47	99.7	145.2	62.9	120.7	34.3	0	0	1	1
48	EPIX	EPIX 2356	48	99.7	145.1	62.3	121.9	37.1	2	3	1	0
49	UniSouth Genetics Inc	EXP 3574	49	99.7	145.1	59.7	122.2	34.3	1	4	1	0
50	Dyna-Gro	9393	50	99.6	145.0	59.0	121.4	35.3	1	1	1	1
51	EPIX	EPIX 1365	51	99.6	145.0	61.1	119.3	35.2	3	9	1	1
52	UniSouth Genetics Inc	3783	52	99.4	144.7	60.4	121.8	34.1	3	2	2	2
53	AgriPro	SY547	53	99.0	144.1	60.9	118.2	40.9	2	3	1	2
54	KWS	KWS 477	54	98.8	143.8	63.0	119.3	37.3	4	1	1	2
55	Southern Harvest	SH 4222	55	98.8	143.8	62.6	120.2	38.1	0	3	1	2
56	Helena Agri-Ent.	MBX 127	56	98.7	143.7	61.8	120.6	35.3	1	2	1	0
57	UniSouth Genetics Inc	3234	57	98.7	143.7	62.9	120.2	38.1	1	5	2	1
58	AgriPro	GP381	58	98.3	143.1	57.7	118.3	32.2	3	1	2	1
59	Southern Harvest	SH 9520	59	98.2	142.9	62.2	121.8	35.1	0	3	1	2
60	EPIX	EPIX 4372	60	98.0	142.6	62.0	120.1	36.4	1	4	1	0
61	UMD	MD447-2	61	97.5	142.0	63.3	120.6	34.9	0	3	2	1
62	Virginia Tech	15VTK-1-101	62	97.5	141.9	62.3	120.4	32.6	1	3	1	2
63	Mid-Atlantic Seeds	MAS #106	63	97.4	141.8	61.0	114.7	37.1	3	0	2	2
64	Dyna-Gro	9290	64	97.3	141.6	60.2	119.3	35.3	1	6	1	0
65	UMD	MD4-98-23	65	97.2	141.5	62.8	118.1	35.6	0	1	1	1
66	KWS	KWS 459	66	97.0	141.2	61.2	120.0	30.8	3	3	1	2
67	EPIX	EPIX 2392	67	96.8	141.0	63.5	120.1	38.5	2	3	1	1
68	Helena Agri-Ent.	MBX 223	68	96.8	140.9	61.7	120.2	38.1	0	4	2	1
69	Helena Agri-Ent.	MBX 230	69	96.6	140.6	63.1	120.3	37.6	1	3	1	3
70	Revere Seed	Revere 2277	70	96.4	140.3	62.0	122.7	34.5	1	4	1	1
71	UMD	MD4-98-19	71	96.4	140.2	60.5	119.7	73.4	0	1	1	2

#	Brand	Variety	Rank	Yield (% mean)	Yield (bu/A)	Test Weight (lbs)	Heading Date (Julian)	Height (in)	Leaf Rust (1-9)	Glume Blotch (1-9)	Powdery Mildew (1-9)	BYDV (1-9)
72	AgriMAXX	535	72	96.3	140.2	62.8	120.4	34.4	2	4	2	0
73	Helena Agri-Ent.	MBX 245	73	96.2	140.0	60.3	118.6	35.3	1	3	1	1
74	Dyna-Gro	9481	74	96.1	139.9	59.9	119.7	36.2	2	3	1	2
75	EPIX	EPIX 1375	75	96.0	139.7	61.4	117.4	36.4	1	7	1	2
76	KWS	KWS 495	76	95.9	139.6	62.1	119.4	32.6	1	2	3	4
77	Southern Harvest	SH 7200	77	95.8	139.4	61.8	118.0	37.6	0	4	1	2
78	VCIA	Liberty 5658	78	95.3	138.7	62.0	116.7	36.8	2	8	3	1
79	Mid-Atlantic Seeds	MAS #190	79	95.2	138.5	61.2	121.8	33.9	2	3	2	3
80	Helena Agri-Ent.	MBX 176	80	94.7	137.9	58.8	121.1	37.1	0	3	2	2
81	Mid-Atlantic Seeds	MAS #2	81	94.7	137.8	62.2	121.3	45.4	3	0	1	1
82	Mid-Atlantic Seeds	MAS #67	82	94.7	137.8	58.4	118.4	33.9	2	5	1	3
83	UniSouth Genetics Inc	3463.0	83	94.2	137.2	60.4	120.3	34.1	0	2	1	1
84	GROMARK INC	FS 597	84	94.2	137.1	60.5	119.4	37.4	1	3	2	2
85	Virginia Tech	14VDH-HRW02-027	85	93.9	136.7	62.9	121.3	36.1	1	7	1	1
86	AgriMAXX	505.0	86	93.6	136.3	61.3	120.6	36.3	1	7	2	2
87	UniSouth Genetics Inc	3000.0	87	93.2	135.6	60.1	121.2	37.0	1	1	0	0
88	UMD	UMD-21-MDX17	88	93.1	135.5	62.1	118.8	34.5	0	5	1	5
89	Mid-Atlantic Seeds	MAS #189	89	93.0	135.3	62.7	115.2	37.0	1	7	0	2
90	GROMARK INC	FS 891	90	91.4	133.0	62.5	120.4	35.5	0	4	1	0
91	Helena Agri-Ent.	MBX 120	91	91.1	132.6	61.5	122.8	35.0	0	3	2	0
		Mean			145.5	61.5	120.0	36.6	1.0	3.3	1.0	1.3
		CV (%)			4.2	2.1	1.2	12.0				

All the yield data and test weights are reported at the 13.5% grain moisture content

****Notes** 1. Underlined cultivars are not available for commercialization this year due to limited seed volumes

2- Due to the non-conductive weather conditions no FHB was observed this year.

3- DON analysis is being conducted right now, but is expected to be very low as well and hence will not be very informative this year.

4- Data for leaf rust (LR), glume blotch (GB), barley yellow dwarf (bydv) and tan spot was recorded from Wye, Clarksville and Beltsville under natural inoculation.

5- Disease scores were recorded on 0-9 scale based on visual ratings, '0' = no disease or low severity and '9' = high disease severity.

More information can be found at:

<https://psla.umd.edu/extension/md-crops/small-grains-maryland>

Comparative analysis of commercial winter wheat cultivars tested under MD small grain trials for last three years (2020/2021 to 2022/2023)

		Three year average of commercial cultivars*				2022/2023 statewide average MD trial				2021/2022 statewide average MD trial				2020/2021 statewide average MD trial			
Brand	Variety	Rank based on three years	Yield (% mean)	Yield (bu/A)	Test Weight (lbs)	Published Rank	Yield (% mean)	Yield (bu/A)	Test Weight (lbs)	Published Rank	Yield (% mean)	Yield (bu/A)	Test Weight (lbs)	Published Rank	Yield (% mean)	Yield (bu/A)	Test Weight (lbs)
UniSouth Genetics Inc	3352	1	111.2	135.9	60.5	14	104.8	152.6	62.3	1	112.5	119.2	58.7	-	-	-	-
Mid-Atlantic Seeds	MAS #155	2	109.7	134.1	59.1	4	107.0	155.7	61.9	11	106.1	112.4	56.3	-	-	-	-
UniSouth Genetics Inc	3661	3	109.6	133.9	59.1	2	108.6	158.1	61.5	28	103.5	109.6	56.7	-	-	-	-
UniSouth Genetics Inc	3363	4	108.1	132.1	60.9	13	104.9	152.6	62.4	17	105.3	111.6	59.3	-	-	-	-
UMD	MD16W58	5	107.6	131.4	59.2	24	103.4	150.5	62.7	4	106.0	112.4	55.6	-	-	-	-
AgriMAXX	525	6	106.9	130.7	60.2	38	100.9	146.9	62.2	5	108.0	114.5	58.2	-	-	-	-
UMD	MD16W148	7	106.7	130.3	58.6	43	100.0	145.6	61.5	13	108.6	115.1	55.8	-	-	-	-
UniSouth Genetics Inc	3783	8	105.6	129.0	59.1	52	99.4	144.7	60.4	7	106.9	113.3	57.7	-	-	-	-
Dyna-Gro	9393	9	104.6	127.8	57.8	50	99.6	145.0	59.0	21	104.4	110.6	56.7	-	-	-	-
Southern Harvest	SH 4222	10	103.9	127.0	61.0	55	98.8	143.8	62.6	25	103.9	110.1	59.3	-	-	-	-
Revere Seed	Revere 2169	11	103.8	126.8	59.7	31	102.2	148.7	62.2	3	109.6	116.1	57.7	1	111.5	115.6	59.2
UniSouth Genetics Inc	3463	12	102.3	125.0	59.4	83	94.2	137.2	60.4	8	106.4	112.8	58.3	-	-	-	-
UMD	UMD-21-MDX17	13	101.5	124.1	60.1	88	93.1	135.5	62.1	9	106.4	112.7	58.1	-	-	-	-
AgriMAXX	514	14	101.5	124.1	59.4	30	102.2	148.8	61.6	14	105.9	112.2	58.0	4	107.2	111.1	58.7
Mid-Atlantic Seeds	MAS #86	15	101.4	123.9	58.5	3	108.2	157.4	61.0	46	100.0	105.9	58.0	19	104.5	108.4	56.6
UniSouth Genetics Inc	3472	16	101.4	123.9	60.4	32	102.0	148.5	62.6	10	106.3	112.6	58.8	7	106.6	110.5	59.7
Revere Seed	Revere 2277	17	101.3	123.8	60.6	70	96.4	140.3	62.0	37	101.3	107.3	59.1	-	-	-	-
Dyna-Gro	9172	18	100.8	123.2	59.5	10	105.2	153.2	62.3	19	104.8	111.0	57.5	34	101.7	105.4	58.7
AgriMAXX	516	19	100.3	122.6	59.6	40	100.5	146.3	61.7	12	106.0	112.4	57.9	11	105.3	109.2	59.3
Dyna-Gro	9120	20	100.3	122.6	60.9	18	104.4	151.9	62.9	31	102.5	108.6	59.1	24	103.5	107.3	60.6
Helena Agri-Ent.	MBX 127	21	100.2	122.4	59.7	56	98.7	143.7	61.8	2	110.5	117.1	58.1	29	102.7	106.4	59.3
Mid-Atlantic Seeds	MAS #139	22	100.0	122.2	58.3	7	105.9	154.2	61.8	56	96.4	102.1	56.7	6	106.6	110.5	56.5
AgriMAXX	513	23	100.0	122.2	59.7	37	101.0	146.9	62.3	6	107.2	113.6	58.2	33	102.3	106.1	58.8
Dyna-Gro	9151	24	100.0	122.1	60.8	34	101.5	147.7	63.8	20	104.7	110.9	58.9	20	104.0	107.8	59.6
UniSouth Genetics Inc	3329	25	99.9	122.1	57.8	29	102.4	149.0	61.6	27	103.6	109.8	55.5	23	103.6	107.4	56.5
Mid-Atlantic Seeds	MAS #143	26	99.7	121.8	59.6	28	102.6	149.3	62.4	39	101.2	107.2	57.8	14	105.0	108.9	58.6
Mid-Atlantic Seeds	MAS #133	27	98.6	120.5	57.2	23	104.0	151.3	60.2	54	96.5	102.3	55.2	21	104.0	107.8	56.2
AgriPro	GP381	28	98.4	120.2	58.1	58	98.3	143.1	57.7	69	91.9	97.3	58.4	-	-	-	-
Revere Seed	Revere 2148	29	97.9	119.7	57.8	27	102.6	149.4	60.8	51	97.4	103.2	56.3	28	102.7	106.5	56.2
Helena Agri-Ent.	MBX 223	30	97.8	119.5	58.3	68	96.8	140.9	61.7	30	102.5	108.6	56.3	12	105.3	109.1	56.9
Mid-Atlantic Seeds	MAS #316	31	97.7	119.4	58.8	35	101.3	147.5	61.0	49	97.9	103.8	57.5	27	103.0	106.8	58.0
AgriMAXX	503	32	97.7	119.4	58.3	12	105.1	153.0	61.4	53	96.6	102.4	57.4	42	98.9	102.7	56.1
Helena Agri-Ent.	MBX 176	33	96.5	118.0	57.1	80	94.7	137.9	58.8	26	103.7	109.9	55.3	32	102.4	106.1	57.3
AgriMAXX	505	34	96.4	117.8	60.2	86	93.6	136.3	61.3	33	102.3	108.4	59.2	15	104.9	108.8	60.1
Helena Agri-Ent.	MBX 245	35	96.1	117.5	58.9	73	96.2	140.0	60.3	-	-	-	-	66	91.6	95.0	57.5

		Three year average of commercial cultivars*				2022/2023 statewide average MD trial				2021/2022 statewide average MD trial				2020/2021 statewide average MD trial			
Brand	Variety	Rank based on three years	Yield (% mean)	Yield (bu/A)	Test Weight (lbs)	Published Rank	Yield (% mean)	Yield (bu/A)	Test Weight (lbs)	Published Rank	Yield (% mean)	Yield (bu/A)	Test Weight (lbs)	Published Rank	Yield (% mean)	Yield (bu/A)	Test Weight (lbs)
Southern Harvest	SH 9520	36	95.9	117.1	60.1	59	98.2	142.9	62.2	55	96.5	102.2	58.6	30	102.5	106.3	59.5
Southern Harvest	SH 7200	37	95.7	116.9	59.3	77	95.8	139.4	61.8	59	94.9	100.6	56.0	5	107.0	110.9	59.9
AgriPro	SY547	38	95.3	116.5	58.5	53	99.0	144.1	60.9	44	100.6	106.6	57.0	60	95.3	98.8	57.6
Mid-Atlantic Seeds	MAS #189	39	95.0	116.1	61.4	89	93.0	135.3	62.7	70	91.5	96.9	60.1	-	-	-	-
VCIA	Liberty 5658	40	94.4	115.3	60.9	78	95.3	138.7	62.0	52	97.4	103.2	60.5	40	100.5	104.2	60.1
Helena Agri-Ent.	MBX 120	41	92.5	113.1	60.1	91	91.1	132.6	61.5	38	101.2	107.2	59.8	58	95.8	99.4	59.0
Mid-Atlantic Seeds	MAS #67	42	89.5	109.3	56.1	82	94.7	137.8	58.4	64	93.6	99.2	55.4	71	87.7	90.9	54.5
Mid-Atlantic Seeds	MAS #106	43	89.2	109.0	59.9	63	97.4	141.8	61.0	74	84.6	89.6	59.6	63	92.3	95.7	59.0
Mid-Atlantic Seeds	MAS #2	44	88.5	108.2	60.8	81	94.7	137.8	62.2	72	88.0	93.2	61.0	68	90.2	93.5	59.3
		Mean	122.2	59.3			145.5	61.5			107.8	57.8			105.4	58.3	
		St. Dev	6.5	1.2			6.4	1.2			6.4	1.5			5.8	1.5	
		CV (%)	5.3	2.0			4.4	2.0			6.0	2.6			5.5	2.6	

* Represent three year average of cultivars tested under Maryland small grain trials. Data presented here reflect average of statewide test of each trial years starting from 2020-2021

Only the commercial cultivars that were tested atleast two out of three trial years were included in this table

Missing values indicate that these lines were not tested in the given year

FACTSHEET 2022- 2023 MARYLAND STATEWIDE BARLEY YIELD TRIAL RESULTS

Entry #	Brand	Variety	Statewide Average			Wye (WY)			Clarksville (CV)			Beltsville (BV)			Phenotypic data					
			Rank	Yield (% mean)	Yield (bu/A)	Test Weight (lbs/bu)	Rank	Yield (bu/A)	Test Weight (lbs/bu)	Rank	Yield (bu/A)	Test Weight (lbs/bu)	Rank	Yield (bu/A)	Test Weight (lbs/bu)	Heading Date (Julian)	Flowering Date (Julian)	Height (in)		
9	VCIA	Marouetta	1	136.6	183.6	48.0	1	191.8	44.9	1	193.6	50.4	1	165.5	48.6	108	111	27.3		
8	VCIA	Hirondella	2	124.4	167.3	49.4	3	169.3	48.4	2	172.0	49.9	2	160.5	50.0	109	112	27.3		
10	VCIA	Secretariat	3	123.0	165.3	50.4	2	176.7	51.0	4	168.4	51.0	5	150.8	49.3	105	108	18.8		
15	UMD	MDB-EF-21	4	114.1	153.4	45.2	4	157.2	43.6	6	148.8	45.3	3	154.2	46.8	98	102	35.3		
17	GROWMARK INC	FS 945	5	112.1	150.7	50.3	†	†	†	7	148.4	52.1	4	153.1	48.5	109	111	†		
14	UMD	MDB21-283	6	107.2	144.1	45.3	5	155.6	42.8	9	145.8	45.4	8	130.8	47.6	103	106	34.1		
12	Virginia Tech	VA17M-13DH1720LX	7	106.0	142.4	47.2	10	112.5	41.8	3	170.4	51.1	6	144.4	48.7	110	113	27.3		
6	VCIA	Avalon	8	97.3	130.7	50.8	8	127.4	48.3	8	148.4	54.4	14	116.5	49.5	106	108	32.4		
4	BreunCraft	BC Fay	9	93.8	126.1	46.9	13	96.7	42.3	5	152.9	49.7	10	128.8	48.6	108	111	24.9		
11	VCIA	VT Beahm	10	93.4	125.5	46.6	7	138.5	43.9	12	136.0	48.3	15	102.0	47.6	103	106	31.9		
5	VCIA	20211573	11	92.5	124.4	56.8	9	118.7	59.3	15	114.7	59.0	7	139.8	52.0	106	109	35.0		
1	LCS	LCS Calypso	12	91.5	122.9	49.2	12	108.2	47.2	11	143.4	52.5	13	117.3	47.8	110	113	26.0		
7	VCIA	Flavia	13	91.3	122.7	49.4	14	92.0	47.6	10	145.3	51.5	9	130.7	49.0	110	113	24.5		
13	UMD	MDB21-781	14	87.9	118.1	45.7	6	139.4	44.6	13	131.2	45.8	17	83.7	46.6	104	107	34.3		
16	UMD	MDB21-518-DW	15	84.8	113.9	42.0	11	111.5	41.2	16	112.0	41.9	12	118.3	43.0	106	108	20.0		
3	BreunCraft	BC Clementine	16	77.9	104.8	49.8	15	64.0	47.5	14	123.8	52.4	11	126.5	49.4	109	112	23.6		
2	LCS	Violetta	17	66.2	89.0	47.3	16	62.7	44.8	17	108.6	49.9	16	95.8	47.2	108	111	24.5		
			<i>Mean</i>			134.4	48.2				126.4	46.2				144.9	50.0			
			<i>CV %</i>			18.0	6.6				30.0	9.6				15.8	7.9			
			<i>LSD (α=0.05)</i>			-	-				16.2	1.8				23.7	2.6			
																41.2	3.6			

Note Yield rankings are based on average of 3 reps at WY and BV and 4 reps at CV
All the yield data and test weights are reported at the 13.5% grain moisture content
† Indicates loss of data due to bird / deer damage
Bold values indicate no significant difference from top ranked entry

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More information can be found at:

<https://psia.umd.edu/extension/md-crops/small-grains-maryland>

	Study and location	Planting date	Harvest Date	Plot width	Plot length	Seeding rate (million)
1	BVT Wye	9/27/2022	6/14/2023	3.5'	13'	1.5
2	BVT BV	9/29/2022	6/15/2023	3.5'	13'	1.5
3	BVT CV	9/30/2022	6/20/2023	3.5'	13'	1.5
4	WVT Wye*	10/12/2022	6/20/2023	3.5'	13'	1.8
5	WVT CV	10/17/2022	6/26/2023	3.5'	13'	1.8
6	WVT BV	10/11/2022	6/28/2023	3.5'	13'	1.8
7	WVT PH	10/31/2022	7/5/2023	3.5'	13'	1.8
8	Misted Nursery, BV	9/29/2022	7/7/2023	3.5'	7'	1.5 & 1.8

Notes* At Wye trials fungicide Miravis Ace was applied at the rate of 13.7Oz per acre to control FHB and other fungal diseases