

Results from the 2025 small grain Virginia official variety trials

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The following tables present results from the wheat and barley variety trial conducted in Virginia between 2023 and 2025. These small grain variety performance tests are conducted each year in Virginia by the Virginia Tech School of Plant and Environmental Sciences and the Virginia Agricultural Experiment Station. The tests provide information to assist Virginia Cooperative Extension Service agents in formulating cultivar recommendations for small grain producers and to companies developing cultivars and/or marketing seed within the state. Yield data are given for individual locations and across locations and years; yield and other performance characteristics are averaged over the number of locations indicated in parenthesis near the column heading. Performance of a given variety often varies widely over locations and years which makes multiple location-year averages a more reliable indication of expected performance than data from a single year or location.

Soft Red Winter Wheat in 2025

These are final result tables that will appear in the official Small Grains publication at Virginia Cooperative Extension. Some very small changes may occur if errors are identified that require re-running of the analysis. Official results will be distributed by Mid-July. The Shenandoah Valley location has been added since the first release of preliminary tables on July 4th, 2025. Please contact Nicholas Santantonio by email at nsant@vt.edu if any errors are identified.

Table 1: Virginia state soft winter wheat official variety test at 6 sites across Virginia in 2025. Sites included Blacksburg, Blackstone, Orange, Painter, Holland, and Warsaw VA. Shenandoah Valley was harvested after the preliminary July 4th version and is now included. Blackstone and Holland experienced significant deer damage to awnless varieties, and the worst damaged plots were removed from the analysis

Line	Grain Yield bu/ac (7)	Test Weight lb/bu (7)	Heading Date Julian (3)	Height in (3)	Lodging 0-9 (3)	Powdery Mildew 0-9 (4)	Leaf Rust 0-9 (3)	FHB 0-9 (1)	BYDV 0-9 (1)	Awns A-TA-AL
18VTK10-23	104.2+	59.0+	119-	26	0.8	2.8	-0.1-	1.0	3	A
18VTK10-133	104.2+	59.0+	119-	25	0.7	2.7	-0.3-	1.0	3	A
VA20FHB-18	103.5+	57.4+	119-	27+	0.8	1.8	-0.0-	1.0	1	A
18VTK10-188	102.3+	57.3+	120-	25	1.5	1.5	-0.1-	1.0	3	A
VA19FHB-36	101.2+	57.7+	121	27+	0.3	2.0	-0.0-	1.5	3	A
VA20W-135	100.8+	57.4+	121	28+	0.3	2.0	0.3-	2.5	2	A
VA21W-112	100.3+	54.8-	121	22-	0.8	1.8	0.1-	2.5	3	A
VA20W-142	100.1+	57.2+	121	26	1.0	2.5	-0.3-	2.5	2	AL
KWS579	98.4+	55.6	121	23	0.8	4.7+	2.3	1.0	2	A
AgriMAXX EXP 2510	97.9+	55.4-	121	25	0.8	3.2	2.4	1.0	2	A
PITMAN	97.8+	57.5+	121	23	0.6	1.8	-0.1-	2.0	3	A
18VTK9-68	97.8+	57.7+	119-	25	0.9	1.8	0.1-	1.5	4	A
SH 7222	97.8+	57.4+	121	25	-0.0-	1.0	-0.3-	2.5	4	A
KWS625	97.6+	56.5	120	26	1.2	2.5	2.7	1.0	8+	AL
19VTK7-61	97.2+	57.0+	120	23	0.8	2.0	0.1-	1.0	3	A
mean	89.5	56.2	121	25	1.2	2.5	2.3	1.8	3	NA
LSD	6.3	0.7	1	2	1.1	1.6	1.8	1.0	3	NA
CV	13.3	2.4	1	6	78.8	57.9	76.3	30.1	48	NA

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A plus or minus sign indicates a performance significantly above or below the test average.

The 0-9 ratings indicate a genotype's response to disease or lodging where 0 = highly resistant and 9 = highly susceptible.

FHB = Fusarium Head Blight Score (0-9)

FDK = Fusarium Diseased Kernels (percent)

DON = Deoxynivalenol concentration in the kernels (ppm)

Awns, A = Awned, TA = Tip-Awned, and AL = Awnless

Line	Grain	Test	Heading	Height	Lodging	Powdery	Leaf	FHB	BYDV	Awns
	Yield	Weight	Date			Mildew	Rust			
16VDH-SRW03-023	96.6+	55.8	120	25	0.7	2.5	-0.0-	2.0	5	AL
DH20SRW02-073	96.5+	55.6	122	24	2.0	1.0	-0.4-	3.5+	2	AL
KWS571	96.4+	56.2	123+	25	0.7	2.5	3.4	1.5	2	A
18VTK6-3	96.4+	57.3+	122+	25	1.0	1.2	-0.1-	1.0	3	A
VA20FHB-20	96.1+	57.9+	119-	26	0.5	1.7	4.6+	2.0	4	A
VA22W-201	96.1+	57.9+	120	23-	1.5	1.2	0.9	3.0+	3	A
KWS623	96.0+	55.6	120	27+	3.5+	2.0	2.3	1.0	4	AL
HILLIARD	95.3	56.5	121	26	0.8	2.3	-0.0-	1.5	4	A
VA23W-730	95.0	56.6	120	24	0.5	1.0	2.4	3.5+	5	A
18VTK10-77	94.8	58.2+	119-	24	2.7+	1.0	-0.0-	1.0	1	A
AGS 4043	94.8	58.0+	122	23-	0.2	1.0	-0.3-	1.5	5	A
17VDH-SRW02-125	94.8	57.6+	122+	26	1.2	0.7-	-0.3-	1.0	4	A
DH19SRW07-321	94.7	56.6	121	25	0.7	3.0	0.9	1.5	3	A
19VTK7-66	94.2	56.7	121	27+	1.8	1.7	-0.0-	2.0	2	A
Phoenix 96	94.1	56.6	122+	27+	1.0	1.0	0.9	2.5	3	A
15VTK-1-101	94.1	55.8	121	21-	0.2	1.0	-0.4-	3.5+	3	A
VA22W-21	94.0	54.1-	122	23	0.3	2.3	1.1	3.5+	4	A
KWS578	93.9	58.7+	121	24	1.0	4.0	-0.3-	1.0	4	A
20VTK11-79	93.8	57.5+	121	22-	0.8	0.8-	-0.1-	1.5	2	A
VA23W-432	93.4	55.0-	119-	26+	0.2	1.2	0.4-	2.0	3	A
Dyna-Gro 9632	93.1	55.4-	120	25	1.2	4.0	4.0	1.0	3	A
19VDH-FHB-MAS03-29	92.8	56.8	120	25	0.8	1.3	-0.1-	1.0	5	AL
mean	89.5	56.2	121	25	1.2	2.5	2.3	1.8	3	NA
LSD	6.3	0.7	1	2	1.1	1.6	1.8	1.0	3	NA
CV	13.3	2.4	1	6	78.8	57.9	76.3	30.1	48	NA

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Line	Grain Yield	Test Weight	Heading Date	Height	Lodging	Powdery Mildew	Leaf Rust	FHB	BYDV	Awns
VA23W-433	92.5	54.2-	120	27+	1.2	1.7	0.4-	2.0	5	AL
20VTK7-151	92.4	56.8	119-	21-	0.2	0.8-	0.6	3.0+	3	A
NC18-16900	92.3	57.5+	121	27+	1.5	0.7-	-0.4-	1.0	4	AL
USG 3463	92.2	55.8	121	24	1.8	2.0	3.7	1.0	1	A
LA19333-NDH31	92.1	57.3+	120	21-	0.8	0.5-	-0.4-	2.5	3	A
DH19SRW08-001	92.0	56.6	121	23	1.5	2.0	0.6	3.0+	3	AL
19VDH-FHB-MAS05-27	92.0	55.0-	122+	25	2.7+	2.7	2.1	3.0+	4	AL
USG 3673	91.9	57.1+	121	23	1.2	4.4+	-0.1-	2.5	2	AL
AgriMAXX 557	91.7	55.8	121	25	1.3	1.3	5.6+	2.0	2	A
VA23W-345	91.6	56.2	121	26	1.0	2.7	-0.1-	3.0+	2	A
MAS #226	91.4	56.6	121	23-	1.7	2.6	1.0	1.0	1	A
Dyna-Gro 9393	91.4	55.6	122+	23-	0.8	4.0	3.4	1.5	2	A
LA19333-NDH34	91.3	57.7+	121	26	-0.0-	1.5	-0.0-	2.5	4	A
MAS #252	91.1	53.4-	121	24	0.5	2.8	3.4	1.5	1	A
USG 3354	90.8	56.0	120-	24	2.5+	1.3	1.9	1.5	4	AL
USG 3875	90.6	55.4-	121	24	0.5	4.7+	3.4	1.0	2	A
MAS #86	90.5	54.8-	121	27+	1.0	3.8	3.7	1.0	2	A
SH 5123	90.5	57.2+	121	24	0.8	3.6	-0.3-	2.5	4	AL
USG 3755	90.3	55.2-	122	23	0.8	1.6	5.4+	2.0	3	AL
USG 3451	90.3	57.7+	121	24	2.5+	1.8	2.7	1.5	3	AL
VA23W-330	90.3	57.4+	121	24	1.3	1.8	-0.1-	1.0	6	A
LA15093SB-30-3-3	90.2	55.3-	121	28+	0.8	2.5	-0.1-	2.0	4	A
mean	89.5	56.2	121	25	1.2	2.5	2.3	1.8	3	NA
LSD	6.3	0.7	1	2	1.1	1.6	1.8	1.0	3	NA
CV	13.3	2.4	1	6	78.8	57.9	76.3	30.1	48	NA

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Line	Grain	Test	Heading	Height	Lodging	Powdery	Leaf	FHB	BYDV	Awns
	Yield	Weight	Date			Mildew	Rust			
Phoenix 29	90.1	57.3+	121	24	3.2+	1.2	1.1	3.0+	6+	A
19VTK15-37	89.9	57.4+	119-	23-	1.2	1.2	-0.3-	2.0	2	AL
KWS585	89.7	55.8	121	24	2.3+	3.3	5.1+	1.0	2	A
GA141028-13-3-4-22LE25 (Exp)	89.4	55.0-	122	21-	-0.0-	2.6	-0.3-	5.0+	4	A
GA131176-24-6-7-6-8-22E8 (Exp)	89.3	57.6+	120	25	-0.2-	3.7	0.1-	5.0+	1	A
17VTK4-29	89.1	56.4	120	23	2.0	0.8-	1.0	2.5	5	AL
GP 543	88.7	55.9	119-	25	1.8	1.3	2.7	1.5	5	AL
DH19SRW08-020	88.6	57.4+	117-	23-	0.8	1.0	0.6	2.0	2	A
VA23W-532	88.6	55.6	119-	24	1.5	3.2	-0.0-	1.5	3	A
LA15203-LDH197	88.6	56.5	119-	26	0.7	2.2	1.3	1.0	5	A
Dyna-Gro 9290	88.5	57.2+	121	25	1.0	2.8	3.3	1.0	1	A
VA22W-57	88.4	55.9	119-	25	1.5	3.0	0.6	1.5	3	A
VA18HRW-58	88.4	57.6+	122+	27+	0.8	1.5	0.7	3.0+	1	A
18VTK18-112	88.2	57.1+	120	26	0.5	2.8	1.4	1.5	4	AL
AgriMAXX 553	88.1	55.6	121	22-	1.3	2.7	4.4+	1.0	3	A
MAS #133	87.9	53.8-	121	24	0.5	3.3	5.7+	2.0	2	A
SH 9520	87.9	56.0	122+	25	1.5	1.0	4.0	2.5	3	A
Dyna-Gro 9593	87.8	55.4-	121	24	0.3	4.3+	2.9	1.5	1	A
MAS #190	87.6	55.8	122+	23	0.8	3.7	3.7	1.5	1	A
USG EXP 3246	87.6	57.5+	120	23	0.2	3.0	-0.0-	2.0	1	AL
Dyna-Gro 9422	87.5	54.4-	121	26	1.5	3.8	5.0+	1.5	3	A
MAS #67	87.5	56.2	122+	27+	0.5	3.7	3.4	1.0	5	AL
mean	89.5	56.2	121	25	1.2	2.5	2.3	1.8	3	NA
LSD	6.3	0.7	1	2	1.1	1.6	1.8	1.0	3	NA
CV	13.3	2.4	1	6	78.8	57.9	76.3	30.1	48	NA

continued ...

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Line	Grain	Test	Heading	Height	Lodging	Powdery	Leaf	FHB	BYDV	Awns
	Yield	Weight	Date			Mildew	Rust			
MAS #155	87.5	54.4-	122	25	1.3	2.2	5.3+	1.0	1	A
VA23W-319	87.3	55.9	120	24	0.3	3.0	0.7	3.0+	4	A
USG EXP 3446	87.3	56.6	119-	24	0.3	1.0	1.6	1.0	4	AL
USG 3363	87.3	55.1-	121	26	2.0	4.0	4.7+	1.0	2	A
MBX 127	87.2	55.2-	122	24	1.5	3.0	4.6+	1.0	2	A
AgriMAXX 513	86.7	56.1	121	25	1.7	2.0	4.4+	1.5	4	A
AgriMAXX 545	86.6	54.1-	121	24	1.0	3.2	5.3+	1.0	2	A
Dyna-Gro 9612	86.5	54.7-	120	23-	1.0	3.0	5.0+	1.0	2	A
MBX 360	86.4	54.0-	122	24	1.7	3.7	4.7+	1.5	1	A
AgriMAXX 525	86.2	55.8	122+	23	1.2	2.0	5.4+	1.0	4	A
26R33	86.2	56.5	122+	25	0.7	3.5	4.1	1.0	1	A
FS 748	86.0	55.4-	121	25	1.8	1.2	5.6+	1.0	4	A
SH 7200	85.9	56.8	119-	26	0.8	2.4	-0.1-	3.5+	6+	A
Dyna-Gro 9231	85.8	55.2-	121	26	1.0	2.7	4.4+	1.0	4	A
SH 4222	85.4	55.3-	120	25	1.0	2.5	4.7+	1.0	6	A
MAS #225	85.1	55.3-	121	24	1.7	3.2	4.6+	2.0	2	A
MAS #139	85.0	54.8-	121	23	0.8	4.2	5.6+	3.0+	2	A
Dyna-Gro 9172	84.8	55.2-	122	24	1.7	4.2	5.0+	1.5	2	A
FS 891	84.5	56.2	121	24	1.2	4.0	4.6+	1.0	3	A
USG 3234	84.4	58.2+	121	26	1.8	2.8	3.6	1.5	6	AL
USG 3472	84.3	55.3-	122+	23	1.8	4.2	4.7+	1.5	2	A
Dyna-Gro 9151	84.2	56.1	121	25	1.7	3.2	5.1+	1.0	4	A
mean	89.5	56.2	121	25	1.2	2.5	2.3	1.8	3	NA
LSD	6.3	0.7	1	2	1.1	1.6	1.8	1.0	3	NA
CV	13.3	2.4	1	6	78.8	57.9	76.3	30.1	48	NA

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Line	Grain Yield	Test Weight	Heading Date	Height	Lodging	Powdery Mildew	Leaf Rust	FHB	BYDV	Awns
26R45	84.0	55.0-	121	24	1.7	2.7	5.4+	1.0	3	A
AGS 4023	83.8	58.3+	121	25	0.2	1.8	-0.0-	4.0+	3	A
Dyna-Gro 9533	83.4	54.0-	122+	23	1.7	1.7	4.3+	1.0	1	AL
USG 3352	82.7-	55.1-	121	25	2.5+	4.3+	4.7+	2.5	2	A
AGS 4714	82.6-	58.8+	120	26	2.5+	1.3	0.1-	1.0	2	A
MAS #316	82.4-	55.7	122+	27+	1.0	3.7	4.7+	1.0	2	A
AgriMAXX 505	82.0-	56.2	120	25	1.3	3.8	4.9+	1.5	1	A
AgriMAXX 543	81.7-	55.5	120	24	0.8	2.0	2.9	1.0	4	AL
VA23W-40	81.6-	55.8	119-	23	2.0	1.7	3.7	3.0+	5	A
AgriMAXX EXP 2430	80.2-	54.8-	118-	25	1.0	4.2	5.3+	1.0	3	A
FS 747	80.2-	55.3-	121	25	1.0	2.3	2.6	1.0	5	AL
FS 745	78.6-	55.1-	122+	24	1.5	3.5	6.0+	1.0	1	A
Dyna-Gro 9570	78.0-	54.0-	121	24	2.3+	3.7	4.0	1.0	4	A
26R59	78.0-	54.7-	120	26	1.0	2.7	4.4+	3.5+	6	AL
MAS #205	75.8-	56.3	121	25	3.0+	6.5+	4.6+	1.0	2	AL
FS 743	75.1-	55.4-	122+	24	1.0	3.0	4.6+	1.5	3	A
USG EXP 3556	74.5-	53.3-	121	23	3.2+	5.7+	3.9	1.0	4	AL
MAS #2	74.1-	56.9+	122+	27+	3.3+	4.7+	4.9+	2.0	2	AL
MASSEY	69.0-	56.0	122	27+	3.2+	1.8	6.7+	2.5	5	TA
MAS #106	67.6-	56.0	117-	22-	2.0	7.2+	4.4+	1.0	1	AL
mean	89.5	56.2	121	25	1.2	2.5	2.3	1.8	3	NA
LSD	6.3	0.7	1	2	1.1	1.6	1.8	1.0	3	NA
CV	13.3	2.4	1	6	78.8	57.9	76.3	30.1	48	NA

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Table 2: Virginia state soft winter wheat official variety test across 14 site-years in 2023 and 2024.

Line	Grain	Test	Heading	Height	Lodging	Powdery	FHB	Leaf	BYDV	FDK	DON	Awns
	Yield	Weight	Date			Mildew		Rust				
	bu/ac	lb/bu	Julian	in	0-9	0-9	0-9	0-9	0-9	%	ppm	A-TA-AL
	(14)	(14)	(5)	(4)	(5)	(6)	(2)	(6)	(3)	(1)	(1)	
18VTK10-23	101.5+	59.0+	116-	35	0.9	3.2	2.0	0.6-	1.6	5	5	A
VA20FHB-18	101.1+	57.4+	117-	37+	0.6	1.6	2.0	0.4-	1.6	15	9	A
VA20W-142	97.1+	56.9	119	35	1.1	2.1	3.5	0.4-	2.0	10	4	AL
USG 3463	96.1+	55.9	119	33	1.7	1.8	2.2	3.1	2.8	7	3	A
VT Pitman	95.1+	57.7+	118-	33	0.8	1.8	3.8	0.0-	2.1	12	9	A
VA20FHB-20	95.0+	58.2+	117-	35	0.5	1.6	2.7	4.1+	3.1	15	8	A
USG 3673	94.9+	56.9	118	33	1.1	4.7+	2.7	0.0-	1.8	5	2	AL
16VDH-SRW03-023	94.9+	55.8	118-	35	0.6	2.7	3.5	0.0-	3.0	8	6	AL
MAS #226	94.5+	56.4	118-	31-	1.1	2.8	1.0-	1.5	2.6	5	3	A
VA20W-135	94.5	57.1+	119	37+	0.6	1.9	3.8	0.6-	2.0	17	12	A
SH 5123	94.4	57.2+	119	33	1.0	3.5	3.2	0.0-	2.6	5	2	AL
VA22W-201	94.1	58.2+	118-	31-	1.5	1.3	4.2+	1.1-	2.1	15	10	A
SH 7222	93.5	57.6+	120	35	0.4-	1.1-	4.0	0.3-	1.6	18	11	A
MAS #86	93.4	55.4-	120	37+	1.0	3.9+	2.2	4.1+	2.3	20	10	A
AGS 4043	93.2	58.2+	119	32-	0.6	0.8-	3.0	0.3-	2.5	5	4	A
18VTK6-3	93.0	57.3+	120+	34	0.8	1.1-	2.5	0.4-	1.6	22	8	A
VA21W-112	92.8	55.1-	118	32-	0.7	2.3	3.5	0.4-	2.6	15	9	A
mean	89.8	56.3	119	34	1.2	2.4	2.8	2.7	2.7	14	7	NA
LSD	4.7	0.7	1	1	0.7	1.2	1.2	1.3	1.6	13	6	NA
CV	13.8	3.1	1	5	80.5	58.0	31.6	62.6	53.6	47	41	NA

continued ...

A plus or minus sign indicates a performance significantly above or below the test average.

The 0-9 ratings indicate a genotype's response to disease or lodging where 0 = highly resistant and 9 = highly susceptible.

BYDV = Barley Yellow Dwarf

FHB = Fusarium Head Blight Score (0-9)

FDK = Fusarium Diseased Kernels (percent)

DON = Deoxynivalenol concentration in the kernels (ppm)

Awns, A = Awned, TA = Tip-Awned, and AL = Awnless

Line	Grain Yield	Test Weight	Heading Date	Height	Lodging	Powdery Mildew	FHB	Leaf Rust	BYDV	FDK	DON	Awns
VA19FHB-36	92.7	57.6+	118	37+	0.5	1.7	2.8	1.1-	2.5	18	6	A
17VDH-SRW02-125	92.4	57.5+	121+	35	0.9	0.7-	2.2	0.2-	2.3	7	5	A
DH19SRW07-321	92.3	56.5	120	35	0.7	2.1	3.8	1.5	1.5	17	11	A
DH20SRW02-073	92.3	55.9	120+	33	2.1+	0.8-	4.2+	-0.2-	1.8	20	7	AL
19VTK7-66	92.2	56.5	120	37+	1.9	1.4	2.5	0.2-	2.1	10	10	A
NC18-16900	92.1	57.1+	120	36+	1.3	0.8-	2.0	-0.1-	2.3	8	3	AL
Dyna-Gro 9393	92.1	55.9	120+	32-	0.7	3.7+	3.0	3.4	3.0	13	10	A
USG 3354	91.6	55.7	117-	34	2.8+	1.8	1.5-	2.8	2.8	8	3	AL
VA22W-21	91.6	54.5-	121+	32-	0.4-	2.5	4.5+	1.5	3.0	17	17+	A
Phoenix 96	91.5	56.8	122+	37+	0.9	0.9-	3.5	1.7	2.5	50+	13+	A
Dyna-Gro 9290	91.3	56.9	118-	34	0.7	2.7	1.5-	3.5	3.5	10	6	A
USG 3451	91.0	57.4+	118-	33	2.5+	2.1	1.5-	2.4	2.1	5	2	AL
MAS #155	90.9	55.0-	120	35	1.0	1.8	2.0	5.9+	2.3	13	7	A
19VDH-FHB-MAS05-27	90.7	55.1-	121+	35	2.5+	2.5	3.5	2.3	2.1	13	5	AL
Phoenix 29	90.7	57.3+	120	33	1.8	1.2	3.0	1.8	3.0	27+	8	A
Dyna-Gro 9593	90.5	55.5-	118	32-	0.5-	3.7+	2.5	3.3	3.0	7	6	A
18VTK18-112	90.4	56.8	118-	36+	0.9	2.5	2.2	1.4	2.6	5	5	AL
Dyna-Gro 9422	90.4	55.0-	119	35	1.3	3.2	2.5	5.3+	3.5	12	6	A
AgriMAXX 545	90.4	54.5-	120+	33-	0.9	2.6	3.3	5.1+	2.8	15	10	A
SH 9520	90.2	56.4	121+	34	1.0	1.0-	3.5	3.6	3.3	35+	13+	A
15VTK-1-101	90.2	56.3	119	31-	0.5-	0.9-	4.5+	-0.2-	2.3	17	8	A
mean	89.8	56.3	119	34	1.2	2.4	2.8	2.7	2.7	14	7	NA
LSD	4.7	0.7	1	1	0.7	1.2	1.2	1.3	1.6	13	6	NA
CV	13.8	3.1	1	5	80.5	58.0	31.6	62.6	53.6	47	41	NA

continued ...

A plus or minus sign indicates a performance significantly above or below the test average.

The 0-9 ratings indicate a genotype's response to disease or lodging where 0 = highly resistant and 9 = highly susceptible.

BYDV = Barley Yellow Dwarf

FHB = Fusarium Head Blight Score (0-9)

FDK = Fusarium Diseased Kernels (percent)

DON = Deoxynivalenol concentration in the kernels (ppm)

Awns, A = Awned, TA = Tip-Awned, and AL = Awnless

Line	Grain Yield	Test Weight	Heading Date	Height	Lodging	Powdery Mildew	FHB	Leaf Rust	BYDV	FDK	DON	Awns
26R33	90.0	56.8	120+	34	0.7	2.6	2.5	4.4+	3.3	13	5	A
USG 3363	89.5	55.8	120	35	1.3	3.3	2.0	4.5+	2.1	7	7	A
MBX 127	89.4	55.4-	120	34	0.9	2.7	2.7	4.9+	2.0	5	7	A
GP 543	89.3	55.4-	116-	35	2.2+	1.2	2.2	2.7	3.6	7	7	AL
19VDH-FHB-MAS03-29	88.9	57.0+	118	34	0.8	1.1-	1.2-	0.2-	2.6	15	3	AL
HILLIARD	88.8	56.5	118-	36	0.6	2.1	2.5	0.7-	3.5	7	5	A
Dyna-Gro 9231	88.7	55.9	119	36+	1.0	2.7	2.0	4.6+	3.5	8	6	A
DH19SRW08-020	88.7	57.1+	115-	32-	0.8	1.0-	3.2	0.9-	1.6	12	10	A
MAS #190	88.6	56.2	122+	33-	0.6	3.3	3.0	4.4+	2.0	10	6	A
VA18HRW-58	88.6	57.5+	122+	37+	1.6	1.4	4.2+	1.4	2.6	22	9	A
AgriMAXX 525	88.4	55.9	121+	32-	0.9	2.2	2.8	5.1+	4.8+	12	11	A
MAS #139	88.4	55.0-	120	33-	0.7	3.8+	3.2	5.7+	2.6	32+	9	A
Dyna-Gro 9172	88.4	55.4-	120+	34	1.2	3.8+	2.5	5.7+	2.5	10	7	A
USG 3352	88.3	55.7	120+	35	1.7	3.8+	3.8	4.0	2.6	17	12	A
MAS #225	88.3	55.6	120+	33	1.0	2.8	2.7	4.2+	2.5	7	4	A
USG 3472	88.1	55.6	121+	33	1.2	3.8+	2.7	5.3+	2.5	8	10	A
17VTK4-29	87.6	56.4	117-	32-	2.1+	0.7-	4.0	1.3-	3.0	7	4	AL
AgriMAXX 513	87.5	56.1	120	34	1.1	1.6	3.0	4.2+	2.8	17	4	A
Dyna-Gro 9533	87.1	53.9-	120+	33-	1.4	1.3	1.5-	5.2+	1.1	25	4	AL
SH 4222	87.1	55.8	119	35	0.9	2.1	2.0	4.8+	4.1	10	9	A
SH 7200	86.9	57.0+	117-	36+	1.2	2.5	4.8+	0.3-	3.8	32+	12	A
mean	89.8	56.3	119	34	1.2	2.4	2.8	2.7	2.7	14	7	NA
LSD	4.7	0.7	1	1	0.7	1.2	1.2	1.3	1.6	13	6	NA
CV	13.8	3.1	1	5	80.5	58.0	31.6	62.6	53.6	47	41	NA

continued ...

A plus or minus sign indicates a performance significantly above or below the test average.

The 0-9 ratings indicate a genotype's response to disease or lodging where 0 = highly resistant and 9 = highly susceptible.

BYDV = Barley Yellow Dwarf

FHB = Fusarium Head Blight Score (0-9)

FDK = Fusarium Diseased Kernels (percent)

DON = Deoxynivalenol concentration in the kernels (ppm)

Awns, A = Awned, TA = Tip-Awned, and AL = Awnless

Line	Grain Yield	Test Weight	Heading Date	Height	Lodging	Powdery Mildew	FHB	Leaf Rust	BYDV	FDK	DON	Awns
Dyna-Gro 9570	86.6	54.6-	119	34	2.1+	3.5	2.5	4.1+	4.1	17	5	A
DH19SRW08-001	86.3	55.7	120+	32-	1.4	1.4	3.7	1.4-	2.8	13	7	AL
Dyna-Gro 9151	85.8	56.6	120	34	1.2	2.8	2.2	5.1+	3.6	10	5	A
MAS #67	85.5	55.4-	118	35	0.7	4.2+	1.0-	4.0	3.8	5	1-	AL
MAS #133	85.0-	53.9-	120	34	0.6	3.0	3.5	5.5+	3.1	35+	13+	A
AgriMAXX 505	84.5-	56.8	119	34	1.5	3.1	2.5	4.9+	3.1	15	4	A
MAS #316	83.5-	55.6	121+	36+	1.1	2.9	2.7	4.9+	4.1	15	11	A
26R45	82.8-	55.0-	120	35	1.6	2.8	1.8	4.7+	3.0	5	3	A
26R59	80.9-	54.8-	118	33-	0.8	2.9	3.5	4.5+	4.1	35+	7	AL
MAS #2	78.5-	56.9	121+	39+	3.6+	4.2+	3.2	4.7+	1.6	10	4	AL
MAS #106	75.0-	56.0	114-	32-	2.3+	6.8+	2.0	3.9	1.8	5	1-	AL
MASSEY	69.3-	56.2	118	37+	2.7+	1.4	2.0	7.4+	4.0	7	2	TA
mean	89.8	56.3	119	34	1.2	2.4	2.8	2.7	2.7	14	7	NA
LSD	4.7	0.7	1	1	0.7	1.2	1.2	1.3	1.6	13	6	NA
CV	13.8	3.1	1	5	80.5	58.0	31.6	62.6	53.6	47	41	NA

A plus or minus sign indicates a performance significantly above or below the test average.

The 0-9 ratings indicate a genotype's response to disease or lodging where 0 = highly resistant and 9 = highly susceptible.

BYDV = Barley Yellow Dwarf

FHB = Fusarium Head Blight Score (0-9)

FDK = Fusarium Diseased Kernels (percent)

DON = Deoxynivalenol concentration in the kernels (ppm)

Awns, A = Awned, TA = Tip-Awned, and AL = Awnless

Table 3: Virginia state soft winter wheat official variety test across 20 site-years from 2022 to 2024.

Line	Grain Yield bu/ac (20)	Test Weight lb/bu (20)	Heading Date Julian (7)	Height in (6)	Lodging 0-9 (7)	Powdery Mildew 0-9 (9)	FHB 0-9 (3)	Leaf Rust 0-9 (8)	BYDV 0-9 (4)	FDK % (2)	DON ppm (2)	Awns A-TA-AL
VA20FHB-18	105.2+	57.5+	117-	37+	0.7	1.7-	2.7	0.4-	1.5	30	9	A
18VTK10-23	104.9+	59.1+	116-	36	0.7	3.3	2.7	0.4-	1.3	25	6	A
VT Pitman	101.2+	58.0+	117-	34-	0.9	2.0	3.7	-0.0-	1.7	19	7	A
VA20W-142	100.6+	57.4+	118	36+	1.4	2.2	3.7	0.3-	1.7	30	5	AL
VA20W-135	100.4+	57.5+	119	38+	0.8	2.3	4.0	0.5-	1.7	43	12+	A
SH 5123	99.9+	57.7+	118	35	1.3	4.0+	3.3	0.1-	2.4	18	3	AL
USG 3673	99.8+	57.5+	118	34-	1.2	4.7+	3.0	0.1-	1.7	18	3	AL
15VTK-1-101	99.3+	56.9	119	31-	1.0	1.0-	4.3	-0.1-	1.8	39	9	A
17VDH-SRW02-125	98.6	58.0+	121+	35	1.1	0.5-	2.8	0.2-	2.0	26	8	A
VA19FHB-36	98.6	57.8+	118-	38+	0.8	1.9-	2.8	1.0-	2.1	24	7	A
MAS #86	98.3	55.5-	119	37+	0.9	4.3+	2.7	4.1+	2.0	30	7	A
Dyna-Gro 9393	98.2	56.4	120+	33-	0.6	3.9+	3.5	3.3	2.5	29	8	A
VA21W-112	97.9	55.3-	118	33-	0.9	2.1	4.2	0.4-	2.1	49+	14+	A
18VTK6-3	97.9	57.6+	120+	35	0.7	1.4-	2.8	0.3-	1.3	40	7	A
USG 3463	97.8	55.9-	119	33-	1.3	2.0	2.8	3.6	2.3	36	4	A
VA20FHB-20	97.7	58.6+	117-	36	0.5	1.7-	3.0	3.8	2.8	21	7	A
USG 3451	97.7	57.5+	117-	35	2.4+	2.4	2.5	2.1	1.7	10-	3-	AL
mean	94.8	56.7	119	35	1.2	2.7	3.3	3.0	2.4	31	7	NA
LSD	4.2	0.5	1	1	0.6	0.8	1.1	1.1	1.4	17	4	NA
CV	14.0	2.9	1	4	93.8	45.8	29.3	56.9	57.1	40	45	NA

continued ...

A plus or minus sign indicates a performance significantly above or below the test average.

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BYDV = Barley Yellow Dwarf

FHB = Fusarium Head Blight Score (0-9)

FDK = Fusarium Diseased Kernels (percent)

DON = Deoxynivalenol concentration in the kernels (ppm)

Awns, A = Awned, TA = Tip-Awned, and AL = Awnless

Line	Grain Yield	Test Weight	Heading Date	Height	Lodging	Powdery Mildew	FHB	Leaf Rust	BYDV	FDK	DON	Awns
16VDH-SRW03-023	97.4	56.3	117-	35	0.6	2.9	3.8	0.2-	2.5	26	6	AL
SH 9520	97.4	56.9	121+	34	0.9	1.3-	3.5	3.8	2.8	45	10	A
AGS 4043	96.5	58.3+	118	32-	0.8	0.7-	3.3	0.2-	2.1	20	4	A
Phoenix 29	96.3	57.7+	120+	34	1.6	1.6-	3.3	1.7-	2.5	51+	9	A
SH 7222	96.1	58.0+	119+	35	0.3-	1.2-	3.7	0.2-	1.4	49+	10	A
HILLIARD	95.4	56.8	117-	36+	0.6	2.1	2.8	0.6-	3.0	30	8	A
GP 543	95.3	55.8-	116-	36	1.9+	0.9-	3.2	2.7	3.1	29	6	AL
USG 3363	95.3	56.2-	119	36+	1.0	3.0	2.5	4.9+	1.8	19	6	A
Dyna-Gro 9422	95.2	55.3-	119	35	1.3	2.9	3.5	6.0+	3.0	41	10	A
Dyna-Gro 9290	94.8	56.8	117-	36	0.7	3.3	2.5	3.1	3.4	28	6	A
MAS #155	94.8	55.3-	119	36	1.3	2.1	3.0	6.6+	1.8	44	7	A
MBX 127	94.7	55.7-	119+	35	0.8	3.3	3.2	5.4+	1.7	20	5	A
MAS #190	94.6	56.5	121+	33-	0.7	3.3	3.7	4.3+	1.8	33	8	A
17VTK4-29	94.3	57.0	117-	33-	1.9+	0.6-	4.3	1.0-	2.7	36	6	AL
Dyna-Gro 9231	94.0	56.3	119	36+	0.9	3.0	3.0	4.4+	3.1	18	5	A
Dyna-Gro 9172	93.6	55.8-	119	35	1.1	4.1+	2.7	5.9+	2.3	25	5	A
USG 3352	93.4	55.9-	120+	35	1.3	4.1+	4.0	4.2+	2.3	38	14+	A
AgriMAXX 525	93.4	56.2	120+	33-	0.8	2.7	3.3	5.5+	4.4+	26	7	A
MAS #139	93.2	55.4-	119	34-	0.6	3.8+	3.8	5.9+	2.1	51+	9	A
SH 4222	93.1	56.2-	119	36	0.8	2.4	2.8	5.2+	3.5	25	7	A
VA18HRW-58	92.6	58.0+	121+	38+	1.6	1.6-	4.0	1.2-	2.5	46	8	A
mean	94.8	56.7	119	35	1.2	2.7	3.3	3.0	2.4	31	7	NA
LSD	4.2	0.5	1	1	0.6	0.8	1.1	1.1	1.4	17	4	NA
CV	14.0	2.9	1	4	93.8	45.8	29.3	56.9	57.1	40	45	NA

continued ...

A plus or minus sign indicates a performance significantly above or below the test average.

The 0-9 ratings indicate a genotype's response to disease or lodging where 0 = highly resistant and 9 = highly susceptible.

BYDV = Barley Yellow Dwarf

FHB = Fusarium Head Blight Score (0-9)

FDK = Fusarium Diseased Kernels (percent)

DON = Deoxynivalenol concentration in the kernels (ppm)

Awns, A = Awned, TA = Tip-Awned, and AL = Awnless

Line	Grain Yield	Test Weight	Heading Date	Height	Lodging	Powdery Mildew	FHB	Leaf Rust	BYDV	FDK	DON	Awns
AgriMAXX 513	92.4	56.4	119	35	1.6	2.2	3.2	4.5+	2.5	28	4	A
USG 3472	92.0	55.9-	120+	34-	1.0	4.2+	3.2	6.1+	2.1	26	6	A
MAS #133	91.7	54.2-	119	35	0.8	3.7+	3.5	5.4+	2.8	55+	13+	A
SH 7200	91.6	57.3+	116-	36	1.5	3.0	5.3+	0.3-	3.4	56+	19+	A
Dyna-Gro 9151	90.6	57.0	119	35	1.4	3.1	3.0	5.7+	3.3	35	7	A
MAS #67	90.2-	55.5-	117-	35	0.7	5.0+	2.3	3.6	3.3	14-	2-	AL
AgriMAXX 505	89.8-	57.3+	119	35	1.3	3.4	3.0	4.9+	3.0	30	5	A
MAS #316	89.2-	56.0-	120+	36+	1.2	3.7+	2.8	4.8+	3.5	30	8	A
MAS #2	82.9-	57.4+	120+	40+	3.9+	4.6+	3.2	4.5+	1.4	22	4	AL
MAS #106	78.3-	56.2	113-	33-	2.2+	6.9+	2.7	3.8	1.5	15	2-	AL
MASSEY	72.8-	56.4	118	38+	2.9+	1.7-	2.8	7.6+	3.4	34	6	TA
mean	94.8	56.7	119	35	1.2	2.7	3.3	3.0	2.4	31	7	NA
LSD	4.2	0.5	1	1	0.6	0.8	1.1	1.1	1.4	17	4	NA
CV	14.0	2.9	1	4	93.8	45.8	29.3	56.9	57.1	40	45	NA

A plus or minus sign indicates a performance significantly above or below the test average.

The 0-9 ratings indicate a genotype's response to disease or lodging where 0 = highly resistant and 9 = highly susceptible.

BYDV = Barley Yellow Dwarf

FHB = Fusarium Head Blight Score (0-9)

FDK = Fusarium Diseased Kernels (percent)

DON = Deoxynivalenol concentration in the kernels (ppm)

Awns, A = Awned, TA = Tip-Awned, and AL = Awnless

Table 4: Virginia state soft winter wheat official variety test in Blacksburg, VA in 2025.

Line	Grain Yield bu/ac	Test Weight lb/bu	Heading Date Julian	Height in	Lodging 0-9	Powdery Mildew 0-9	BYDV 0-9	Awns A-TA-AL
KWS623	128.6+	60.4	121	34	-0.0	2.5	4	AL
USG 3755	124.3+	60.7	123	31	-0.0	2.0	3	AL
19VDH-FHB-MAS05-27	122.9+	60.2	123	32	0.0	5.0	4	AL
VA23W-432	118.3+	60.6	121	35	-0.0	1.5	3	A
DH19SRW08-001	117.1+	61.0	123	29-	-0.0	5.0	3	AL
16VDH-SRW03-023	115.9+	60.5	121	31	0.0	4.5	5	AL
MAS #252	115.0+	58.2-	123	32	-0.0	4.0	1	A
DH20SRW02-073	114.7+	60.8	123	32	2.0+	1.5	2	AL
19VTK15-37	114.5+	61.6+	120-	30	-0.0	1.0-	2	AL
KWS579	114.2+	59.3-	123	31	0.0	6.5+	2	A
MAS #226	113.8+	61.6+	122	29	-0.0	3.5	1	A
18VTK10-77	113.7+	61.6+	121	32	0.0	1.0-	1	A
MAS #155	113.6+	61.7+	124	34	-0.0	4.5	1	A
VA23W-433	113.3+	59.2-	121	35	0.5	3.5	5	AL
Dyna-Gro 9422	113.2+	61.6+	123	34	-0.0	5.5	3	A
USG 3354	112.9+	60.4	121	32	0.5	0.5-	4	AL
19VTK7-66	112.6+	60.4	122	35	1.5+	2.5	2	A
18VTK10-23	112.5+	62.8+	121	33	-0.0	4.0	3	A
AgriMAXX EXP 2510	112.4+	59.1-	123	34	-0.0	6.0	2	A
mean	103.9	60.7	122	33	0.2	3.9	3	NA
LSD	8.3	0.6	2	4	0.9	2.4	3	NA
CV	5.8	0.7	1	5	265.1	31.5	48	NA

continued ...

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DON = Deoxynivalenol concentration in the kernels (ppm)

Awns, A = Awned, TA = Tip-Awned, and AL = Awnless

Line	Grain Yield	Test Weight	Heading Date	Height	Lodging	Powdery Mildew	BYDV	Awns
17VTK4-29	112.0	60.1-	121	29	-0.0	1.0-	5	AL
SH 9520	111.5	61.3	124	34	-0.0	0.0-	3	A
AgriMAXX 557	111.5	61.3	123	32	0.0	1.0-	2	A
VA20W-135	111.2	61.5+	123	38+	-0.0	3.5	2	A
VA20W-142	111.2	61.1	122	34	0.5	4.5	2	AL
VA20FHB-18	111.0	62.0+	122	34	-0.0	2.5	1	A
MAS #205	110.6	61.5+	123	33	1.5+	8.5+	2	AL
USG EXP 3246	110.4	62.1+	122	31	-0.0	5.5	1	AL
VA21W-112	110.3	59.5-	122	25-	-0.0	1.5	3	A
18VTK10-188	109.8	60.5	120-	32	0.5	2.0	3	A
GP 543	109.5	60.0-	121	33	0.0	0.5-	5	AL
18VTK10-133	109.0	62.4+	121	33	-0.0	4.5	3	A
USG 3472	108.8	60.4	123	32	-0.0	5.5	2	A
Dyna-Gro 9231	108.7	61.5+	123	34	-0.0	3.5	4	A
DH19SRW07-321	108.5	61.9+	122	32	0.0	6.0	3	A
VA22W-201	108.4	62.5+	122	31	-0.0	1.0-	3	A
VA23W-40	108.3	61.3	122	30	-0.0	2.0	5	A
KWS585	108.2	60.6	123	32	-0.0	6.5+	2	A
PITMAN	108.2	62.0+	121	31	0.0	3.5	3	A
SH 7222	108.1	61.9+	123	34	-0.0	0.5-	4	A
MAS #139	107.8	60.8	123	33	-0.0	8.0+	2	A
MBX 360	107.7	60.1-	124	31	-0.0	7.0+	1	AL
mean	103.9	60.7	122	33	0.2	3.9	3	NA
LSD	8.3	0.6	2	4	0.9	2.4	3	NA
CV	5.8	0.7	1	5	265.1	31.5	48	NA

continued ...

A plus or minus sign indicates a performance significantly above or below the test average.

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Line	Grain Yield	Test Weight	Heading Date	Height	Lodging	Powdery Mildew	BYDV	Awns
USG EXP 3446	107.5	60.2	121	29-	-0.0	0.5-	4	AL
VA23W-330	107.5	62.7+	123	32	0.0	3.5	6	A
FS 748	107.3	60.4	122	31	-0.0	2.5	4	A
19VTK7-61	107.2	60.2	122	30	-0.0	4.0	3	A
VA23W-730	106.8	59.1-	121	31	0.0	1.0-	5	A
Dyna-Gro 9570	106.8	59.6-	123	33	0.0	6.5+	4	A
FS 745	106.7	60.4	122	33	-0.0	4.5	1	A
18VTK6-3	106.7	61.9+	124	33	0.0	1.5	3	A
AgriMAXX 513	106.2	61.5+	122	34	0.0	4.0	4	A
KWS625	106.0	60.1-	122	33	-0.0	3.5	8+	AL
USG 3234	105.9	62.7+	123	35	-0.0	2.0	6	AL
DH19SRW08-020	105.9	61.1	119-	28-	0.0	1.0-	2	A
20VTK7-151	105.8	62.4+	121	28-	-0.0	1.0-	3	A
VA19FHB-36	105.7	62.2+	123	33	-0.0	4.0	3	A
USG 3875	105.7	60.4	123	33	-0.0	6.5+	2	A
VA22W-21	105.5	59.8-	123	31	-0.0	4.5	4	A
KWS571	105.4	60.2	124+	34	-0.0	5.0	2	A
MAS #67	105.0	59.6-	124+	36	0.5	4.0	5	AL
USG 3363	104.9	61.1	123	35	1.0	6.5+	2	A
MAS #133	104.8	58.7-	123	33	0.0	5.5	2	A
MAS #86	104.7	59.9-	123	36+	-0.0	6.5+	2	A
Dyna-Gro 9393	104.5	61.0	124	31	0.0	6.0	2	A
mean	103.9	60.7	122	33	0.2	3.9	3	NA
LSD	8.3	0.6	2	4	0.9	2.4	3	NA
CV	5.8	0.7	1	5	265.1	31.5	48	NA

continued ...

A plus or minus sign indicates a performance significantly above or below the test average.

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Line	Grain Yield	Test Weight	Heading Date	Height	Lodging	Powdery Mildew	BYDV	Awns
20VTK11-79	104.4	62.1+	122	30	-0.0	1.0-	2	A
19VDH-FHB-MAS03-29	104.3	61.3	121	33	0.0	2.5	5	AL
USG 3451	103.9	61.8+	122	33	-0.0	3.5	3	AL
18VTK9-68	103.4	60.2	121	31	-0.0	2.5	4	A
Dyna-Gro 9172	103.2	60.4	124	33	0.0	6.5+	2	A
AGS 4043	103.1	61.5+	122	30	-0.0	0.0-	5	A
Dyna-Gro 9533	102.7	58.0-	124	31	0.0	1.0-	1	AL
Dyna-Gro 9593	102.6	60.6	123	32	-0.0	6.5+	1	A
MAS #225	102.5	60.7	123	32	-0.0	5.0	2	A
HILLIARD	102.5	60.6	122	34	-0.0	4.0	4	A
15VTK-1-101	102.4	60.0-	122	28-	-0.0	0.5-	3	A
USG 3463	102.3	60.1-	123	32	0.5	3.0	1	A
VA20FHB-20	102.0	61.8+	120-	33	-0.0	1.5	4	A
MAS #316	101.2	61.3	123	35	0.0	6.0	2	A
18VTK18-112	101.1	61.6+	121	34	0.0	6.5+	4	AL
AgriMAXX 545	101.1	59.8-	124	33	0.0	6.5+	2	A
MBX 127	101.0	59.7-	124	32	0.0	5.0	2	A
KWS578	100.8	62.6+	123	33	-0.0	5.5	4	A
LA19333-NDH31	100.4	61.4	121	28-	-0.0	0.5-	3	A
VA18HRW-58	100.4	61.0	123	35	-0.0	1.5	1	A
17VDH-SRW02-125	100.4	61.6+	124	36	0.5	0.5-	4	A
NC18-16900	100.3	61.6+	123	36+	0.5	0.0-	4	AL
mean	103.9	60.7	122	33	0.2	3.9	3	NA
LSD	8.3	0.6	2	4	0.9	2.4	3	NA
CV	5.8	0.7	1	5	265.1	31.5	48	NA

continued ...

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Line	Grain Yield	Test Weight	Heading Date	Height	Lodging	Powdery Mildew	BYDV	Awns
26R45	100.3	60.3	123	33	-0.0	3.0	3	A
Dyna-Gro 9612	100.1	60.3	122	30	-0.0	2.5	2	A
USG 3352	100.0	60.9	123	34	1.0	6.5+	2	A
AgriMAXX 553	99.9	60.5	123	30	0.0	3.5	3	A
Dyna-Gro 9632	99.7	60.3	122	33	0.0	7.5+	3	A
26R59	99.7	60.0-	122	41+	-0.0	3.5	6	AL
VA23W-345	99.3	59.7-	121	32	-0.0	4.5	2	A
FS 747	99.2	59.5-	122	33	-0.0	3.5	5	AL
USG 3673	98.3	61.5+	121	31	0.5	7.5+	2	AL
VA23W-319	98.1	60.6	121	31	-0.0	6.5+	4	A
26R33	98.1	61.7+	123	33	0.0	6.0	1	A
VA22W-57	97.4	61.0	120-	32	-0.0	6.5+	3	A
FS 891	97.3	60.6	123	33	0.0	6.5+	3	A
VA23W-532	97.3	59.7-	121	31	0.0	6.5+	3	A
GA131176-24-6-7-6-8-22E8 (Exp)	97.2	60.4	121	32	-0.0	7.5+	1	A
Dyna-Gro 9290	97.1	60.5	122	33	-0.0	5.0	1	A
MAS #190	96.9	59.8-	124+	32	-0.0	5.0	1	A
GA141028-13-3-4-22LE25 (Exp)	96.7	60.5	123	28-	-0.0	5.5	4	A
AgriMAXX 525	96.6	60.6	124	32	-0.0	4.5	4	A
SH 5123	96.4	61.6+	122	32	-0.0	7.0+	4	AL
SH 4222	96.3	60.8	121	33	-0.0	3.0	6	A
FS 743	96.1	61.0	123	32	0.0	4.0	3	A
mean	103.9	60.7	122	33	0.2	3.9	3	NA
LSD	8.3	0.6	2	4	0.9	2.4	3	NA
CV	5.8	0.7	1	5	265.1	31.5	48	NA

continued ...

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Line	Grain Yield	Test Weight	Heading Date	Height	Lodging	Powdery Mildew	BYDV	Awns
AgriMAXX 543	95.9	59.7-	122	31	-0.0	3.0	4	AL
AGS 4023	95.8	62.2+	123	33	-0.0	3.0	3	A
Phoenix 96	94.8-	60.0-	124+	35	-0.0	1.0-	3	A
LA15093SB-30-3-3	93.5-	60.6	122	34	-0.0	5.0	4	A
Dyna-Gro 9151	93.3-	61.9+	123	32	-0.0	6.0	4	A
AgriMAXX EXP 2430	93.0-	59.6-	120-	32	0.0	6.5+	3	A
Phoenix 29	91.9-	60.6	123	32	2.5+	1.5	6+	A
AgriMAXX 505	91.6-	61.4	123	33	-0.0	6.0	1	A
SH 7200	91.3-	60.4	121	33	0.5	5.5	6+	A
USG EXP 3556	91.2-	58.8-	123	31	0.5	7.0+	4	AL
LA19333-NDH34	90.1-	61.1	122	33	-0.0	2.5	4	A
AGS 4714	86.7-	62.5+	122	34	-0.0	1.5	2	A
LA15203-LDH197	84.5-	59.6-	121	31	0.0	5.5	5	A
MAS #2	81.2-	61.0	124	37+	4.0+	7.5+	2	AL
MAS #106	78.5-	59.2-	118-	30	-0.0	8.0+	1	AL
MASSEY	78.5-	59.7-	123	35	2.0+	1.5	5	AL
mean	103.9	60.7	122	33	0.2	3.9	3	NA
LSD	8.3	0.6	2	4	0.9	2.4	3	NA
CV	5.8	0.7	1	5	265.1	31.5	48	NA

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Table 5: Virginia state soft winter wheat official variety test in Blackstone, VA in 2025.

Line	Grain Yield bu/ac	Test Weight lb/bu	Powdery Mildew 0-9	Leaf Rust 0-9	Awns A-TA-AL
18VTK10-23	112.1+	57.9+	1.0	0.0	A
18VTK10-133	109.5+	57.9+	0.0	-0.0	A
VA20W-135	106.6+	56.6+	0.0	0.0	A
AgriMAXX EXP 2510	102.9+	53.5-	-0.0	0.0	A
Dyna-Gro 9632	102.1+	54.2	0.0	0.5	A
15VTK-1-101	101.7+	54.4	0.0	-0.0	A
VA20FHB-18	101.2+	54.8	0.0	0.0	A
VA23W-730	101.0+	56.3+	-0.0	1.0	A
Phoenix 96	100.7+	56.7+	-0.0	-0.0	A
KWS571	100.4+	55.7+	0.0	-0.0	A
VA20FHB-20	99.6+	56.9+	0.0	2.0	A
SH 7222	99.4+	55.6+	0.5	0.0	A
Dyna-Gro 9393	98.8+	54.8	2.0	0.5	A
VA19FHB-36	98.3	55.5+	-0.0	0.0	A
MAS #190	98.2	55.6+	3.0	0.5	A
DH19SRW07-321	96.7	55.3	-0.0	0.0	A
USG 3472	96.7	55.1	1.0	2.5	A
18VTK10-188	95.9	55.3	-0.0	0.5	A
LA19333-NDH34	95.4	57.0+	0.0	0.0	A
VA21W-112	95.3	52.9-	0.5	0.0	A
VA20W-142	94.9	55.1	-0.0	0.0	AL
Dyna-Gro 9172	94.9	55.1	1.5	2.5	A
MAS #252	94.7	53.1-	1.5	0.5	A
26R45	94.6	54.8	1.0	4.0+	A
USG 3463	94.4	54.1	-0.0	0.5	A
AgriMAXX 553	94.2	55.1	-0.0	1.0	A
17VDH-SRW02-125	94.1	55.1	0.0	0.0	A
MAS #86	94.1	53.4-	0.0	1.0	A
KWS579	93.9	53.3-	3.5+	0.5	A
KWS585	93.8	54.9	-0.0	3.5+	A
USG 3875	93.6	54.2	3.5+	0.0	A
mean	83.4	54.5	0.7	0.9	NA
LSD	15.0	1.0	2.5	1.6	NA
CV	12.7	1.3	188.0	87.3	NA

continued ...

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and 9 = highly susceptible.

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Line	Grain Yield	Test Weight	Powdery Mildew	Leaf Rust	Awns
Dyna-Gro 9290	93.6	56.7+	0.0	0.0	A
AgriMAXX 557	93.4	54.3	1.0	3.0+	A
AgriMAXX 525	93.1	55.0	-0.0	2.5	A
VA23W-319	92.9	54.2	0.0	0.0	A
HILLIARD	92.9	54.3	-0.0	0.0	A
GA141028-13-3-4-22LE25 (Exp)	92.9	53.8	0.0	0.0	A
19VTK7-61	92.7	55.3	-0.0	0.5	A
GA131176-24-6-7-6-8-22E8 (Exp)	91.8	56.5+	0.0	-0.0	A
SH 9520	91.8	54.4	-0.0	0.5	A
MAS #133	91.8	52.5-	2.0	4.0+	A
LA19333-NDH31	91.6	56.0+	-0.0	0.0	A
MAS #139	91.5	53.3-	0.0	3.0+	A
NC18-16900	91.5	55.9+	-0.0	0.0	AL
20VTK11-79	91.2	55.1	0.0	0.0	A
FS 891	91.2	55.1	2.5	2.0	A
Dyna-Gro 9151	90.8	54.5	0.0	2.5	A
SH 4222	90.8	53.4-	0.5	1.5	A
AgriMAXX 505	90.8	54.8	1.5	2.0	A
20VTK7-151	90.8	54.7	-0.0	-0.0	A
AGS 4043	90.5	56.5+	-0.0	0.0	A
Dyna-Gro 9612	90.4	51.9-	2.0	3.5+	A
VA22W-21	90.3	52.8-	0.0	0.5	A
26R33	90.2	55.9+	1.5	1.0	A
KWS625	90.2	54.7	1.0	-0.0	AL
18VTK6-3	90.0	56.3+	-0.0	-0.0	A
18VTK9-68	89.2	56.1+	1.0	0.0	A
VA23W-330	89.1	54.6	0.0	0.5	A
PITMAN	88.8	53.8	0.0	0.0	A
FS 745	88.7	54.6	1.5	5.0+	A
Phoenix 29	87.9	56.0+	0.0	-0.0	A
Dyna-Gro 9593	87.3	53.4-	2.5	-0.0	A
MAS #316	87.3	55.0	1.5	1.5	A
KWS578	87.0	57.2+	1.0	-0.0	A
Dyna-Gro 9422	86.8	52.7-	1.5	3.0+	A
mean	83.4	54.5	0.7	0.9	NA
LSD	15.0	1.0	2.5	1.6	NA
CV	12.7	1.3	188.0	87.3	NA

continued ...

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Line	Grain Yield	Test Weight	Powdery Mildew	Leaf Rust	Awns
MAS #155	86.5	53.0-	-0.0	3.0+	A
VA18HRW-58	86.2	54.7	-0.0	-0.0	A
MAS #225	86.0	54.3	1.0	2.0	A
SH 7200	86.0	54.8	0.5	0.0	A
DH20SRW02-073	85.9	52.7-	0.0	-0.0	AL
MBX 127	85.4	54.5	-0.0	2.5	A
USG 3755	84.8	54.8	-0.1	3.5+	AL
FS 743	84.7	53.1-	1.5	2.0	A
AgriMAXX EXP 2430	84.2	52.2-	1.5	2.0	A
LA15203-LDH197	84.0	54.4	0.0	0.0	A
VA23W-345	84.0	54.4	0.0	-0.0	A
Dyna-Gro 9231	83.7	53.1-	0.0	0.5	A
MBX 360	83.4	53.1-	1.0	2.0	A
SH 5123	82.8	55.4	2.0	0.0	AL
VA22W-57	82.6	52.9-	0.0	0.0	A
AgriMAXX 545	81.8	53.0-	0.0	2.5	A
USG 3363	81.4	53.0-	1.0	2.5	A
FS 748	81.1	53.6	0.0	4.0+	A
19VTK7-66	81.1	54.4	1.0	-0.0	A
AgriMAXX 513	80.5	54.5	0.0	1.5	A
VA23W-432	79.7	51.7-	0.0	0.5	A
MAS #67	79.2	55.4	3.5+	1.0	AL
LA15093SB-30-3-3	79.0	52.6-	-0.0	-0.0	A
VA22W-201	78.9	56.3+	0.0	0.5	A
DH19SRW08-001	78.5	55.1	-0.0	-0.0	AL
USG 3673	77.3	54.8	1.5	0.5	AL
AGS 4023	77.0	56.7+	0.0	0.0	A
MAS #226	76.7	54.4	1.5	0.5	A
VA23W-532	76.3	51.9-	-0.0	0.5	A
MASSEY	74.8	55.9+	0.0	7.0+	TA
Dyna-Gro 9533	74.4	53.1-	0.0	2.0	AL
Dyna-Gro 9570	73.7	51.6-	-0.0	0.5	A
DH19SRW08-020	73.4	56.3+	-0.0	0.5	A
18VTK10-77	73.2	55.8+	0.0	0.5	A
mean	83.4	54.5	0.7	0.9	NA
LSD	15.0	1.0	2.5	1.6	NA
CV	12.7	1.3	188.0	87.3	NA

continued ...

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The 0-9 ratings indicate a genotype's response to disease or lodging where 0 = highly resistant
and 9 = highly susceptible.
FHB = Fusarium Head Blight Score (0-9)
FDK = Fusarium Diseased Kernels (percent)
DON = Deoxynivalenol concentration in the kernels (ppm)
Awns, A = Awned, TA = Tip-Awned, and AL = Awnless

Line	Grain Yield	Test Weight	Powdery Mildew	Leaf Rust	Awns
16VDH-SRW03-023	72.1	52.6-	-0.0	0.0	AL
19VDH-FHB-MAS05-27	71.1	52.9-	1.0	-0.0	AL
USG EXP 3246	71.0	54.3	0.0	0.5	AL
VA23W-433	70.5	50.3-	0.0	-0.0	AL
USG 3352	69.5	54.3	1.0	1.0	A
AGS 4714	68.9	57.1+	-0.0	0.5	A
18VTK18-112	67.5-	53.5	-0.0	0.0	AL
USG EXP 3446	64.7-	54.9	0.0	0.0	AL
MAS #2	63.5-	56.1+	2.5	3.0+	AL
USG 3354	63.4-	54.5	0.0	0.0	AL
MAS #205	62.6-	53.5-	5.0+	2.0	AL
VA23W-40	61.2-	53.4-	0.0	0.5	A
USG 3234	60.8-	56.3+	2.5	1.0	AL
GP 543	60.3-	54.6	0.0	0.0	AL
USG EXP 3556	59.4-	52.0-	5.0+	0.5	AL
KWS623	58.8-	52.5-	-0.0	0.0	AL
26R59	57.5-	54.1	1.0	1.5	AL
17VTK4-29	49.7-	55.3	-0.0	1.0	AL
19VTK15-37	46.8-	55.4	1.5	0.0	AL
FS 747	43.9-	50.5-	0.0	0.5	AL
19VDH-FHB-MAS03-29	38.3-		-0.0	0.5	AL
MAS #106	36.8-		8.5+	2.0	AL
AgriMAXX 543	33.4-		-0.0	0.0	AL
USG 3451	32.6-		-0.0	0.5	AL
mean	83.4	54.5	0.7	0.9	NA
LSD	15.0	1.0	2.5	1.6	NA
CV	12.7	1.3	188.0	87.3	NA

A plus or minus sign indicates a performance significantly above or below the test average. The 0-9 ratings indicate a genotype's response to disease or lodging where 0 = highly resistant and 9 = highly susceptible.

FHB = Fusarium Head Blight Score (0-9)

FDK = Fusarium Diseased Kernels (percent)

DON = Deoxynivalenol concentration in the kernels (ppm)

Awns, A = Awned, TA = Tip-Awned, and AL = Awnless

Table 6: Virginia state soft winter wheat official variety test in Holland, VA in 2025. Excessive deer damage were observed at this location. This location was not included in the over location analysis.

Line	Grain Yield bu/ac	Test Weight lb/bu
18VTK10-23	74.5+	56.1+
AgriMAXX 525	74.5+	53.3
18VTK10-133	73.5	56.2+
KWS571	73.5	53.9
MAS #190	73.1	52.5
17VDH-SRW02-125	73.1	53.9
MBX 127	73.0	53.3
VA22W-201	72.4	54.7+
Dyna-Gro 9393	72.2	53.3
18VTK10-188	72.1	56.3+
18VTK9-68	71.8	56.1+
PITMAN	71.5	54.4
18VTK6-3	71.3	54.3
MAS #86	70.8	52.8
19VTK7-61	70.8	54.5
19VTK7-66	70.7	54.0
VA21W-112	70.5	52.9
Dyna-Gro 9632	70.3	53.6
KWS585	70.0	54.2
AgriMAXX 545	70.0	52.2
MAS #133	69.9	51.4-
VA20FHB-20	69.7	55.6+
AgriMAXX EXP 2510	69.6	52.3
VA20W-135	69.5	54.3
KWS625	69.5	53.7
USG 3363	69.4	51.9
KWS578	69.4	56.1+
mean	61.4	53.2
LSD	12.3	1.5
CV	13.8	1.7

continued ...

A plus or minus sign indicates a performance significantly above or below the test average.

The 0-9 ratings indicate a genotype's response to disease or lodging where 0 = highly resistant and 9 = highly susceptible.

FHB = Fusarium Head Blight Score (0-9)

FDK = Fusarium Diseased Kernels (percent)

DON = Deoxynivalenol concentration in the kernels (ppm)

25

Awns, A = Awned, TA = Tip-Awned, and AL = Awnless

Line	Grain Yield	Test Weight
USG 3472	69.3	53.3
USG 3352	69.2	52.5
VA23W-730	68.9	54.4
SH 7222	68.3	53.1
Dyna-Gro 9172	68.3	52.7
MAS #252	67.9	50.9-
MAS #225	67.8	53.1
USG 3463	67.5	53.3
Dyna-Gro 9612	67.4	52.6
26R33	67.3	54.3
GA141028-13-3-4-22LE25 (Exp)	67.2	52.1
MAS #155	67.1	51.6-
MAS #139	66.9	53.3
Dyna-Gro 9422	66.8	52.8
VA19FHB-36	66.7	54.5
FS 748	66.4	52.5
Dyna-Gro 9151	65.9	54.3
VA22W-21	65.4	49.1-
Dyna-Gro 9231	65.3	52.1
15VTK-1-101	65.1	51.8
AgriMAXX 557	65.0	52.9
FS 745	64.9	52.3
USG 3875	64.9	51.7-
VA22W-57	64.7	53.9
VA20FHB-18	64.6	54.5
Dyna-Gro 9593	64.5	51.7-
Phoenix 29	64.4	54.7+
VA23W-345	64.3	53.6
26R45	64.0	53.0
20VTK11-79	63.9	53.7
DH19SRW07-321	63.6	52.8
KWS579	63.5	52.8
mean	61.4	53.2
LSD	12.3	1.5
CV	13.8	1.7

continued ...

A plus or minus sign indicates a performance significantly above or below the test average.

The 0-9 ratings indicate a genotype's response to disease or lodging where 0 = highly resistant and 9 = highly susceptible.

FHB = Fusarium Head Blight Score (0-9)

FDK = Fusarium Diseased Kernels (percent)

DON = Deoxynivalenol concentration in the kernels (ppm)

Awns, A = Awned, TA = Tip-Awned, and AL = Awnless

Line	Grain Yield	Test Weight
19VDH-FHB-MAS05-27	63.5	49.7-
MAS #316	63.4	52.7
SH 7200	63.3	54.6
AgriMAXX 553	63.0	53.6
DH20SRW02-073	62.9	50.7-
HILLIARD	62.6	53.3
Dyna-Gro 9290	62.4	54.6
LA15093SB-30-3-3	62.1	51.2-
USG 3673	61.8	54.5
LA19333-NDH34	61.7	53.8
Dyna-Gro 9570	61.6	51.6-
AGS 4714	61.5	56.9+
VA23W-40	61.0	54.2
AgriMAXX 505	60.7	54.4
GA131176-24-6-7-6-8-22E8 (Exp)	60.5	54.8+
18VTK10-77	60.5	55.7+
VA23W-532	60.4	53.4
MAS #2	60.3	53.9
SH 5123	60.0	54.7
MAS #226	59.5	52.5
AgriMAXX 543	59.5	52.5
FS 891	59.2	53.5
SH 4222	58.9	52.1
FS 743	58.5	51.6-
20VTK7-151	58.3	53.6
Phoenix 96	58.2	52.2
VA23W-319	58.0	52.7
LA19333-NDH31	57.6	52.8
SH 9520	57.3	51.3-
MAS #67	57.1	52.8
VA20W-142	56.8	53.9
VA23W-432	56.8	50.9-
mean	61.4	53.2
LSD	12.3	1.5
CV	13.8	1.7

continued ...

A plus or minus sign indicates a performance significantly above or below the test average.

The 0-9 ratings indicate a genotype's response to disease or lodging where 0 = highly resistant and 9 = highly susceptible.

FHB = Fusarium Head Blight Score (0-9)

FDK = Fusarium Diseased Kernels (percent)

DON = Deoxynivalenol concentration in the kernels (ppm)

Awns, A = Awned, TA = Tip-Awned, and AL = Awnless

Line	Grain Yield	Test Weight
AgriMAXX 513	56.4	52.3
26R59	56.1	54.2
VA23W-433	55.5	48.6-
USG EXP 3246	55.1	54.2
MBX 360	54.4	52.3
AGS 4023	53.9	
DH19SRW08-020	53.6	54.0
AgriMAXX EXP 2430	53.5	52.4
VA23W-330	53.2	54.4
KWS623	52.6	
LA15203-LDH197	52.5	
MAS #205	52.5	
17VTK4-29	52.5	53.9
MASSEY	51.4	54.3
18VTK18-112	50.8	
VA18HRW-58	50.7	51.3-
DH19SRW08-001	49.9	51.4-
AGS 4043	49.6	53.9
GP 543	48.6-	
USG 3755	46.9-	52.5
NC18-16900	46.8-	
USG 3234	44.5-	
FS 747	43.4-	
USG EXP 3446	42.5-	
19VTK15-37	42.1-	
16VDH-SRW03-023	41.3-	
USG 3354	39.9-	
USG 3451	39.3-	
Dyna-Gro 9533	37.1-	
MAS #106	35.9-	
19VDH-FHB-MAS03-29		

USG EXP 3556

mean	61.4	53.2
LSD	12.3	1.5
CV	13.8	1.7

A plus or minus sign indicates a performance significantly above or below the test average.

The 0-9 ratings indicate a genotype's response to disease or lodging where 0 = highly resistant and 9 = highly susceptible.

FHB = Fusarium Head Blight Score (0-9)

FDK = Fusarium Diseased Kernels (percent)

DON = Deoxynivalenol concentration in the kernels (ppm)

Awns, A = Awned, TA = Tip-Awned, and AL = Awnless

Table 7: Virginia state soft winter wheat official variety test in Orange, VA in 2025.

Line	Grain Yield bu/ac	Test Weight lb/bu
KWS578	117.9+	60.0+
KWS571	117.7+	58.0
VA20W-135	117.0+	58.3+
USG 3363	115.3+	57.4
KWS623	115.2+	55.6-
USG 3755	114.3	57.2
KWS579	113.3	56.1
SH 5123	113.2	58.2+
Dyna-Gro 9632	112.4	57.2
VA20FHB-20	111.6	58.2+
Dyna-Gro 9422	110.9	56.5
19VTK15-37	110.9	57.8
VA22W-21	110.9	54.7-
VA20W-142	110.5	57.8
18VTK10-133	110.2	59.3+
AgriMAXX 553	110.1	57.8
MAS #133	110.1	56.1
SH 7222	110.1	57.9
AgriMAXX 557	109.9	57.0
MAS #226	109.8	57.7
KWS585	109.8	57.5
MBX 360	109.7	55.5-
AgriMAXX 545	109.3	55.6-
MAS #86	109.2	56.1
USG 3673	109.1	58.0
VA19FHB-36	109.1	57.8
Dyna-Gro 9533	109.1	56.0
USG 3875	109.0	57.0
19VDH-FHB-MAS05-27	108.9	55.7-
mean	103.3	56.9
LSD	11.9	1.1
CV	8.2	1.4

continued ...

A plus or minus sign indicates a performance significantly above or below the test average.

The 0-9 ratings indicate a genotype's response to disease or lodging where 0 = highly resistant and 9 = highly susceptible.

FHB = Fusarium Head Blight Score (0-9)

FDK = Fusarium Diseased Kernels (percent)

DON = Deoxynivalenol concentration in the kernels (ppm)

30

Awns, A = Awned, TA = Tip-Awned, and AL = Awnless

Line	Grain Yield	Test Weight
GP 543	108.7	55.8-
16VDH-SRW03-023	108.6	56.1
VA20FHB-18	108.4	58.1+
DH19SRW08-001	108.1	57.2
SH 9520	108.0	57.8
AgriMAXX EXP 2510	107.9	56.6
MAS #155	107.9	56.6
AgriMAXX 513	107.7	57.3
MAS #190	107.3	58.7+
17VTK4-29	107.1	57.3
18VTK6-3	106.9	57.9
VA21W-112	106.7	54.4-
USG EXP 3556	106.5	54.5-
19VTK7-61	106.4	56.6
USG 3354	106.4	56.1
19VDH-FHB-MAS03-29	106.3	58.2+
26R45	106.2	57.3
Dyna-Gro 9593	106.1	57.3
VA23W-433	106.0	54.9-
KWS625	106.0	56.9
AGS 4043	105.9	58.6+
MBX 127	105.5	57.1
Dyna-Gro 9151	105.3	57.8
DH19SRW07-321	105.2	56.7
SH 4222	105.2	56.7
LA15203-LDH197	104.9	56.7
Dyna-Gro 9393	104.8	55.8-
FS 891	104.6	57.2
DH19SRW08-020	104.1	56.7
PITMAN	104.1	58.6+
USG 3234	104.0	59.1+
26R33	104.0	58.3+
mean	103.3	56.9
LSD	11.9	1.1
CV	8.2	1.4

continued ...

A plus or minus sign indicates a performance significantly above or below the test average.

The 0-9 ratings indicate a genotype's response to disease or lodging where 0 = highly resistant and 9 = highly susceptible.

FHB = Fusarium Head Blight Score (0-9)

FDK = Fusarium Diseased Kernels (percent)

DON = Deoxynivalenol concentration in the kernels (ppm)

Awns, A = Awned, TA = Tip-Awned, and AL = Awnless

Line	Grain Yield	Test Weight
VA23W-532	104.0	55.7-
VA23W-432	103.9	54.7-
18VTK10-23	103.8	59.5+
FS 747	103.8	55.7-
VA22W-201	103.8	57.5
17VDH-SRW02-125	103.7	59.0+
VA23W-345	103.4	56.5
NC18-16900	103.4	57.4
LA15093SB-30-3-3	103.2	55.5-
VA23W-330	102.8	57.7
HILLIARD	102.6	56.8
LA19333-NDH31	102.4	57.8
MAS #252	102.0	54.2-
18VTK10-188	102.0	56.9
USG 3352	102.0	56.3
FS 748	101.9	57.0
Phoenix 96	101.7	56.2
Dyna-Gro 9172	101.6	57.8
MAS #139	101.1	56.2
USG 3463	100.9	56.8
Dyna-Gro 9231	100.8	57.0
USG 3472	100.3	57.4
18VTK18-112	100.2	56.7
AgriMAXX 505	100.2	57.8
AgriMAXX 525	100.1	56.9
DH20SRW02-073	100.1	55.8-
USG 3451	100.0	56.7
Dyna-Gro 9290	99.7	57.5
VA22W-57	99.5	55.4-
AgriMAXX 543	99.3	56.1
LA19333-NDH34	99.0	58.1+
Dyna-Gro 9612	98.9	56.6
mean	103.3	56.9
LSD	11.9	1.1
CV	8.2	1.4

continued ...

A plus or minus sign indicates a performance significantly above or below the test average.

The 0-9 ratings indicate a genotype's response to disease or lodging where 0 = highly resistant and 9 = highly susceptible.

FHB = Fusarium Head Blight Score (0-9)

FDK = Fusarium Diseased Kernels (percent)

DON = Deoxynivalenol concentration in the kernels (ppm)

Awns, A = Awned, TA = Tip-Awned, and AL = Awnless

Line	Grain Yield	Test Weight
20VTK11-79	98.4	56.9
MAS #225	98.4	56.2
18VTK10-77	98.3	57.9
GA131176-24-6-7-6-8-22E8 (Exp)	98.2	58.1+
USG EXP 3246	97.8	57.6
USG EXP 3446	97.5	56.5
AgriMAXX EXP 2430	97.4	55.9
VA18HRW-58	96.8	57.9
AGS 4023	96.5	58.9+
Dyna-Gro 9570	96.4	55.3-
18VTK9-68	95.9	57.1
VA23W-730	95.6	56.4
GA141028-13-3-4-22LE25 (Exp)	95.6	54.5-
SH 7200	95.5	56.8
MAS #316	95.4	57.2
15VTK-1-101	95.3	56.2
MAS #205	95.2	57.3
VA23W-319	94.9	56.1
20VTK7-151	94.8	56.7
26R59	94.0	55.7-
VA23W-40	93.4	55.6-
AGS 4714	92.5	59.0+
FS 745	91.3-	57.1
FS 743	91.2-	57.1
19VTK7-66	90.7-	56.7
MAS #67	90.2-	57.2
Phoenix 29	88.4-	57.6
MAS #2	87.8-	58.2+
MAS #106	86.5-	55.6-
MASSEY	73.6-	55.6-
mean	103.3	56.9
LSD	11.9	1.1
CV	8.2	1.4

A plus or minus sign indicates a performance significantly above or below the test average.

The 0-9 ratings indicate a genotype's response to disease or lodging where 0 = highly resistant and 9 = highly susceptible.

FHB = Fusarium Head Blight Score (0-9)

FDK = Fusarium Diseased Kernels (percent)

DON = Deoxynivalenol concentration in the kernels (ppm)

Awns, A = Awned, TA = Tip-Awned, and AL = Awnless

Table 8: Virginia state soft winter wheat official variety test in Painter, VA in 2025.

Line	Grain Yield bu/ac	Test Weight lb/bu	Lodging 0-9	Powdery Mildew 0-9	Leaf Rust 0-9
18VTK10-188	123.5+	58.1+			-0.0-
VA20FHB-18	119.2+	58.0+			0.3-
18VTK10-133	118.1+	59.6+			-0.0-
18VTK10-23	116.9+	59.3+			0.3-
HILLIARD	114.7+	57.9+			0.7-
VA21W-112	114.6+	56.1			0.7-
15VTK-1-101	113.6+	57.5+			-0.0-
16VDH-SRW03-023	113.4+	56.6			0.3-
VA20W-142	112.3+	58.2+			0.0-
VA19FHB-36	111.3+	58.3+			0.3-
NC18-16900	111.0+	58.5+			-0.0-
LA15093SB-30-3-3	109.9+	57.2+			0.0-
LA19333-NDH34	109.6+	59.1+			0.7-
PITMAN	108.9+	58.8+	0.0		0.3-
SH 7222	108.4+	58.3+			-0.0-
18VTK10-77	108.1+	59.0+			0.0-
LA19333-NDH31	107.6+	58.9+			0.0-
18VTK18-112	107.6+	58.7+			3.3
18VTK9-68	107.1+	58.8+	3.0		1.0-
GP 543	106.6+	56.7			5.3
DH20SRW02-073	105.3+	56.7			-0.0-
17VDH-SRW02-125	104.4+	58.9+			0.3-
19VTK7-61	104.2+	58.4+			0.3-
AGS 4043	104.0+	58.2+			0.3-
KWS623	103.3+	56.4			6.0
18VTK6-3	102.9+	57.8+			0.3-
USG 3354	102.9+	56.2			4.7
USG EXP 3446	102.4+	57.7+			3.3
20VTK7-151	102.4+	57.3+			1.7-
KWS625	101.2+	56.2			6.3+
DH19SRW08-020	100.7+	58.7+			1.7-
mean	86.6	55.3		4.6	4.7
LSD	11.6	1.9		2.1	1.5
CV	9.6	2.4		12.7	20.4

continued ...

A plus or minus sign indicates a performance significantly above or below the test average.
The 0-9 ratings indicate a genotype's response to disease or lodging where 0 = highly resistant and 9 = highly susceptible.

FHB = Fusarium Head Blight Score (0-9)

FDK = Fusarium Diseased Kernels (percent)

DON = Deoxynivalenol concentration in the kernels (ppm)

Awns, A = Awned, TA = Tip-Awned, and AL = Awnless

Line	Grain Yield	Test Weight	Lodging	Powdery Mildew	Leaf Rust
KWS579	100.6+	56.1			5.3
VA22W-201	99.9+	59.1+			2.3-
19VTK15-37	99.8+	58.8+			0.3-
USG EXP 3246	99.7+	58.4+			0.3-
USG 3451	99.5+	58.9+			6.3+
VA20W-135	99.0+	57.7+			1.0-
VA23W-433	99.0+	54.9			1.0-
FS 747	98.7+	56.2			6.0
DH19SRW08-001	98.7+	57.5+			1.7-
20VTK11-79	98.6+	60.0+			-0.0-
Phoenix 96	98.0	57.2			1.7-
GA131176-24-6-7-6-8-22E8 (Exp)	97.8	57.8+			0.7-
AgriMAXX EXP 2510	97.6	56.0			6.0
LA15203-LDH197	97.5	57.0			4.0
GA141028-13-3-4-22LE25 (Exp)	96.7	55.3		4.3	0.3-
Phoenix 29	96.4	56.7			3.0-
AgriMAXX 543	96.1	55.8			6.7+
AGS 4023	96.0	59.5+			0.7-
SH 7200	95.8	58.8+		1.3-	-0.0-
19VDH-FHB-MAS03-29	95.6	56.3			0.3-
VA23W-432	95.5	56.1			1.0-
VA20FHB-20	94.9	57.2+			8.3+
SH 5123	94.9	56.7		3.8	-0.0-
VA23W-532	94.2	56.3			0.0-
DH19SRW07-321	94.1	56.4			2.3-
USG 3673	94.0	57.0		5.8	0.3-
VA23W-730	93.9	56.0			5.7
VA23W-345	93.4	56.8			0.3-
19VTK7-66	93.2	56.7			1.0-
MAS #67	92.5	55.6			7.3+
VA23W-330	91.9	57.5+			0.3-
AGS 4714	91.0	59.2+	8.0		0.7-
USG 3463	90.7	54.4			8.0+
VA22W-21	89.9	53.6			3.0-
mean	86.6	55.3		4.6	4.7
LSD	11.6	1.9		2.1	1.5
CV	9.6	2.4		12.7	20.4

continued ...

A plus or minus sign indicates a performance significantly above or below the test average.
The 0-9 ratings indicate a genotype's response to disease or lodging where 0 = highly resistant and 9 = highly susceptible.
FHB = Fusarium Head Blight Score (0-9)
FDK = Fusarium Diseased Kernels (percent)
DON = Deoxynivalenol concentration in the kernels (ppm)
Awns, A = Awned, TA = Tip-Awned, and AL = Awnless

Line	Grain Yield	Test Weight	Lodging	Powdery Mildew	Leaf Rust
MAS #226	89.7	56.1		4.3	2.7-
VA18HRW-58	88.9	59.4+			2.3-
KWS578	88.7	56.9		6.3	-0.0-
Dyna-Gro 9290	86.6	58.0+			7.3+
VA22W-57	85.8	56.1		3.3	1.3-
USG 3234	84.1	57.2			7.0+
VA23W-319	83.5	55.5		3.3	2.3-
17VTK4-29	82.2	55.1	8.0		2.0-
19VDH-FHB-MAS05-27	81.3	55.4			4.7
USG 3875	78.2	53.7			8.0+
MAS #252	77.8	51.5-			7.7+
FS 891	77.8	54.9			9.0+
Dyna-Gro 9593	77.8	54.5			6.7+
Dyna-Gro 9393	76.6	52.8-			8.0+
Dyna-Gro 9632	76.2	53.0-			8.0+
SH 4222	75.8	54.0			9.0+
MAS #106	75.8	56.8		8.3+	8.3+
VA23W-40	75.5	55.0	7.0		8.3+
AgriMAXX 513	75.2	54.8			8.7+
Dyna-Gro 9612	73.7-	54.0			9.0+
SH 9520	73.5-	55.1			8.7+
KWS571	72.3-	52.5-			8.0+
26R59	71.5-	52.3-			8.7+
Dyna-Gro 9231	70.9-	52.1-			9.0+
AgriMAXX 557	70.7-	53.2-			9.0+
MAS #190	70.2-	53.1-			8.0+
MAS #225	70.1-	52.3-			8.7+
AgriMAXX 553	69.9-	51.8-			9.0+
MAS #86	68.5-	51.1-			7.7+
USG 3363	67.6-	50.6-			9.0+
MBX 127	67.5-	52.1-			8.7+
USG 3352	67.3-	51.9-			8.7+
MAS #133	67.2-	49.5-			9.0+
USG 3755	67.0-	51.3-			9.0+
mean	86.6	55.3		4.6	4.7
LSD	11.6	1.9		2.1	1.5
CV	9.6	2.4		12.7	20.4

continued ...

A plus or minus sign indicates a performance significantly above or below the test average.
The 0-9 ratings indicate a genotype's response to disease or lodging where 0 = highly resistant and 9 = highly susceptible.
FHB = Fusarium Head Blight Score (0-9)
FDK = Fusarium Diseased Kernels (percent)
DON = Deoxynivalenol concentration in the kernels (ppm)
Awns, A = Awned, TA = Tip-Awned, and AL = Awnless

Line	Grain Yield	Test Weight	Lodging	Powdery Mildew	Leaf Rust
KWS585	66.4-	51.0-			9.0+
AgriMAXX 545	66.0-	51.2-			9.0+
MBX 360	65.8-	49.8-			9.0+
26R33	64.8-	52.4-			8.7+
Dyna-Gro 9533	64.7-	50.8-			8.3+
AgriMAXX 525	63.7-	52.5-			9.0+
AgriMAXX 505	63.5-	52.2-			9.0+
FS 748	62.9-	51.1-			9.0+
Dyna-Gro 9151	62.2-	52.2-			9.0+
AgriMAXX EXP 2430	61.0-	51.5-			9.0+
MAS #316	60.7-	52.6-			9.0+
MAS #155	60.4-	49.9-			9.0+
MAS #205	59.8-	55.0			8.7+
26R45	58.5-	50.5-			9.0+
Dyna-Gro 9422	58.4-	47.7-			9.0+
MAS #2	57.8-	55.9			8.0+
MAS #139	57.4-	50.0-			9.0+
USG EXP 3556	57.2-	48.5-			8.3+
Dyna-Gro 9570	57.1-	51.0-			9.0+
Dyna-Gro 9172	56.3-	50.1-			8.7+
USG 3472	55.9-	51.0-			9.0+
FS 745	51.2-	49.6-			9.0+
FS 743	46.5-				9.0+
MASSEY	45.6-	50.9-			8.7+
mean	86.6	55.3		4.6	4.7
LSD	11.6	1.9		2.1	1.5
CV	9.6	2.4		12.7	20.4

A plus or minus sign indicates a performance significantly above or below the test average.
The 0-9 ratings indicate a genotype's response to disease or lodging where 0 = highly resistant and 9 = highly susceptible.

FHB = Fusarium Head Blight Score (0-9)

FDK = Fusarium Diseased Kernels (percent)

DON = Deoxynivalenol concentration in the kernels (ppm)

Awns, A = Awned, TA = Tip-Awned, and AL = Awnless

Table 9: Virginia state soft winter wheat official variety test in Shenandoah Valley, VA in 2025.

Line	Grain Yield bu/ac	Test Weight lb/bu
VA20W-142	113.1+	54.9
VA19FHB-36	113.1+	56.3+
VA20FHB-18	112.5+	56.3+
USG 3755	111.8+	54.1
USG 3451	111.6+	55.9+
18VTK10-133	111.1+	57.3+
18VTK9-68	110.9+	56.5+
18VTK10-188	110.7+	55.1
18VTK10-77	110.1+	57.4+
VA22W-201	108.5	56.2+
18VTK10-23	108.1	57.7+
VA23W-433	107.8	53.5
DH20SRW02-073	107.5	54.2
KWS578	107.1	58.5+
AGS 4043	107.0	56.7+
KWS571	107.0	54.6
19VTK7-66	106.3	55.5
VA23W-345	106.2	55.2
VA23W-432	105.7	53.8
16VDH-SRW03-023	105.6	54.0
USG 3673	105.1	55.5
VA21W-112	105.0	51.5-
KWS579	104.9	54.9
Phoenix 96	104.6	54.1
LA15203-LDH197	103.6	55.6
VA18HRW-58	103.3	56.8+
20VTK7-151	103.2	55.5
20VTK11-79	103.1	55.8
mean	96.6	54.6
LSD	13.5	1.2
CV	10.0	1.6

continued ...

A plus or minus sign indicates a performance significantly above or below the test average.

The 0-9 ratings indicate a genotype's response to disease or lodging where 0 = highly resistant and 9 = highly susceptible.

FHB = Fusarium Head Blight Score (0-9)

FDK = Fusarium Diseased Kernels (percent)

DON = Deoxynivalenol concentration in the kernels (ppm)

Awns, A = Awned, TA = Tip-Awned, and AL = Awnless

Line	Grain Yield	Test Weight
VA23W-730	102.8	55.5
VA20FHB-20	102.5	56.0+
NC18-16900	101.4	56.1+
18VTK6-3	100.6	54.8
KWS625	100.5	55.8+
PITMAN	100.3	56.4+
26R33	100.3	55.4
19VTK7-61	100.1	55.4
17VTK4-29	100.0	55.2
USG 3354	99.8	53.5
18VTK18-112	99.5	56.0+
HILLIARD	99.5	54.2
MAS #155	99.1	52.6-
MAS #86	98.9	54.1
MAS #226	98.7	55.7
DH19SRW08-001	98.7	54.1
AgriMAXX EXP 2510	98.7	53.8
MAS #67	98.5	55.0
VA23W-319	98.5	54.4
LA15093SB-30-3-3	98.3	53.4-
AgriMAXX EXP 2430	98.1	56.0+
17VDH-SRW02-125	98.1	55.7
19VDH-FHB-MAS03-29	98.0	54.8
USG EXP 3246	97.9	56.5+
VA23W-532	97.9	55.0
VA20W-135	97.9	54.2
Dyna-Gro 9151	97.8	55.7
LA19333-NDH34	97.5	55.8
AgriMAXX 557	97.4	54.5
SH 7222	97.3	55.8
19VTK15-37	96.9	55.8
USG 3463	96.9	54.9
mean	96.6	54.6
LSD	13.5	1.2
CV	10.0	1.6

continued ...

A plus or minus sign indicates a performance significantly above or below the test average.

The 0-9 ratings indicate a genotype's response to disease or lodging where 0 = highly resistant and 9 = highly susceptible.

FHB = Fusarium Head Blight Score (0-9)

FDK = Fusarium Diseased Kernels (percent)

DON = Deoxynivalenol concentration in the kernels (ppm)

Awns, A = Awned, TA = Tip-Awned, and AL = Awnless

Line	Grain Yield	Test Weight
DH19SRW07-321	96.8	54.2
VA22W-21	96.8	50.1-
MBX 127	96.7	53.4-
Dyna-Gro 9632	96.5	52.7-
VA22W-57	96.5	54.8
KWS623	96.3	54.0
19VDH-FHB-MAS05-27	96.3	53.5
USG EXP 3446	96.1	55.6
VA23W-330	96.1	56.0+
Dyna-Gro 9533	95.9	53.1-
Phoenix 29	95.9	56.0+
KWS585	95.8	55.6
SH 5123	95.7	55.0
26R59	95.3	52.9-
Dyna-Gro 9393	95.1	54.2
AgriMAXX 553	94.7	53.1-
MAS #133	94.7	53.5
MAS #139	94.6	53.2-
USG 3875	94.3	53.4
MBX 360	94.3	52.5-
GP 543	94.2	53.7
AgriMAXX 545	93.9	52.1-
Dyna-Gro 9612	93.9	52.1-
LA19333-NDH31	93.6	54.8
DH19SRW08-020	93.5	55.5
USG 3234	93.4	57.5+
FS 747	92.7	54.9
AgriMAXX 505	92.6	55.2
AgriMAXX 513	92.6	55.0
MAS #316	92.3	54.3
MAS #252	92.2	50.9-
Dyna-Gro 9422	92.1	52.3-
mean	96.6	54.6
LSD	13.5	1.2
CV	10.0	1.6

continued ...

A plus or minus sign indicates a performance significantly above or below the test average.

The 0-9 ratings indicate a genotype's response to disease or lodging where 0 = highly resistant and 9 = highly susceptible.

FHB = Fusarium Head Blight Score (0-9)

FDK = Fusarium Diseased Kernels (percent)

DON = Deoxynivalenol concentration in the kernels (ppm)

Awns, A = Awned, TA = Tip-Awned, and AL = Awnless

Line	Grain Yield	Test Weight
AgriMAXX 525	91.9	54.5
AGS 4023	91.8	56.3+
AGS 4714	91.7	57.8+
AgriMAXX 543	91.4	54.9
SH 4222	91.0	54.1
MAS #2	90.8	55.1
Dyna-Gro 9290	90.7	55.3
FS 748	90.4	55.4
USG 3352	90.4	52.8-
FS 891	90.1	54.6
Dyna-Gro 9172	90.0	53.7
15VTK-1-101	89.7	52.4-
26R45	89.1	53.2-
Dyna-Gro 9231	88.6	53.9
Dyna-Gro 9593	88.1	53.7
MAS #225	87.9	53.9
USG 3472	87.1	52.6-
SH 9520	86.9	54.1
MAS #190	86.8	54.3
SH 7200	86.2	54.0
VA23W-40	85.4	53.2-
USG 3363	85.2	55.0
GA141028-13-3-4-22LE25 (Exp)	83.4	50.8-
GA131176-24-6-7-6-8-22E8 (Exp)	82.9-	55.5
MASSEY	82.8-	55.3
MAS #205	82.3-	55.7
USG EXP 3556	79.7-	52.8-
FS 745	77.8-	52.5-
MAS #106	76.3-	55.2
Dyna-Gro 9570	76.2-	52.8-

FS 743	65.5-	53.4
mean	96.6	54.6
LSD	13.5	1.2
CV	10.0	1.6

A plus or minus sign indicates a performance significantly above or below the test average.

The 0-9 ratings indicate a genotype's response to disease or lodging where 0 = highly resistant and 9 = highly susceptible.

FHB = Fusarium Head Blight Score (0-9)

FDK = Fusarium Diseased Kernels (percent)

DON = Deoxynivalenol concentration in the kernels (ppm)

Awns, A = Awned, TA = Tip-Awned, and AL = Awnless

Table 10: Virginia state soft winter wheat official variety test in Warsaw, VA in 2025.

Line	Grain Yield bu/ac	Test Weight lb/bu	Heading Date Julian	Height in	Lodging 0-9
KWS625	110.1+	58.1	117	30+	2.2
VA20FHB-18	107.5+	58.5+	116-	31+	1.7
18VTK9-68	106.2+	59.1+	115-	29	2.2
19VTK7-66	105.1+	59.1+	118	30+	2.5
KWS623	104.8+	56.9	117	30+	5.7+
VA19FHB-36	104.4+	59.0+	117	30+	1.0
VA20W-135	104.1+	59.2+	118	30+	1.0
19VDH-FHB-MAS03-29	104.1+	57.7	119	28	1.7
PITMAN	103.1+	58.8+	118	27	2.5
17VTK4-29	102.2+	58.4+	118	27	3.0
18VTK10-188	102.2+	59.0+	117	28	2.5
Phoenix 29	102.2+	59.9+	118	27	4.0+
VA20W-142	101.9+	59.0+	118	29	1.7
18VTK10-23	101.6+	59.7+	115-	29	1.7
VA22W-201	100.9+	58.9+	117-	26-	2.7
Phoenix 96	100.8+	59.0+	120+	31+	2.0
USG 3451	100.6+	59.4+	117	26-	4.2+
18VTK10-77	99.8+	60.3+	115-	27	4.5+
VA21W-112	99.8+	56.4-	117	27	1.8
19VDH-FHB-MAS05-27	99.6+	56.8-	119+	28	4.5+
19VTK7-61	99.4+	58.6+	117	26	1.7
VA22W-21	99.2+	57.3	119+	27	1.0
AGS 4043	99.0+	59.9+	120+	26-	0.7-
16VDH-SRW03-023	98.5+	57.7	118	28	1.5
KWS571	98.4+	58.2	120+	28	1.5
KWS579	98.3+	56.7-	118	26-	1.7
USG 3354	98.2+	58.1	117-	28	4.0+
DH19SRW07-321	98.1+	58.5+	119+	29	1.5
18VTK10-133	97.8	60.0+	115-	28	1.5
19VTK15-37	97.6	57.6	115-	26	2.2
20VTK11-79	97.3	59.3+	118	25-	1.7
mean	89.0	57.6	118	28	2.2
LSD	9.0	0.8	1	2	1.3
CV	7.3	1.0	1	4	42.1

continued ...

A plus or minus sign indicates a performance significantly above or below the test average.
The 0-9 ratings indicate a genotype's response to disease or lodging where 0 = highly resistant
and 9 = highly susceptible.
FHB = Fusarium Head Blight Score (0-9)
FDK = Fusarium Diseased Kernels (percent)
DON = Deoxynivalenol concentration in the kernels (ppm)
Awns, A = Awned, TA = Tip-Awned, and AL = Awnless

Line	Grain Yield	Test Weight	Heading Date	Height	Lodging
USG 3673	97.0	58.7+	118	27	2.0
DH20SRW02-073	96.9	57.2	119+	27	2.5
GA131176-24-6-7-6-8-22E8 (Exp)	96.4	60.4+	118	29	0.2-
AgriMAXX EXP 2510	96.3	56.9	119	27	1.7
18VTK6-3	96.2	58.1	119+	28	2.0
VA23W-730	96.0	58.3	117-	28	1.2
Dyna-Gro 9632	94.6	56.6-	116-	28	2.2
VA23W-432	93.8	56.8	116-	29	0.7-
AgriMAXX 557	93.8	57.4	118	29	2.5
GA141028-13-3-4-22LE25 (Exp)	93.6	57.7	119+	25-	0.5-
DH19SRW08-001	93.3	58.1	119	27	2.7
LA15203-LDH197	92.8	58.3	113-	30+	1.5
GP 543	92.8	57.6	116-	29	3.2
SH 7222	92.8	59.5+	119	28	0.5-
USG 3463	92.8	57.4	118	27	3.0
VA23W-433	92.7	55.7-	117	30+	2.0
VA20FHB-20	92.6	59.3+	117	29	1.2
VA22W-57	92.4	57.5	115-	28	2.7
VA18HRW-58	92.3	59.5+	120+	31+	1.7
HILLIARD	92.1	58.3	117	29	1.7
MAS #226	91.8	57.9	118	27	3.0
FS 748	91.7	58.0	118	30+	3.2
LA19333-NDH31	91.6	58.7+	117	25-	1.7
NC18-16900	91.6	58.4+	119+	29	2.5
20VTK7-151	91.3	57.2	116-	25-	0.7-
VA23W-330	91.3	58.7+	118	26	2.5
VA23W-345	90.9	57.5	118	29	2.0
15VTK-1-101	90.6	58.2	119+	25-	0.7-
SH 5123	90.5	59.0+	118	27	1.7
VA23W-532	90.3	57.6	115-	28	2.8
Dyna-Gro 9533	89.9	55.7-	118	27	3.0
17VDH-SRW02-125	89.9	58.7+	119+	28	2.0
Dyna-Gro 9290	89.6	58.0	118	28	2.0
MBX 360	89.6	55.7-	118	28	3.0
mean	89.0	57.6	118	28	2.2
LSD	9.0	0.8	1	2	1.3
CV	7.3	1.0	1	4	42.1

continued ...

A plus or minus sign indicates a performance significantly above or below the test average.
The 0-9 ratings indicate a genotype's response to disease or lodging where 0 = highly resistant
and 9 = highly susceptible.
FHB = Fusarium Head Blight Score (0-9)
FDK = Fusarium Diseased Kernels (percent)
DON = Deoxynivalenol concentration in the kernels (ppm)
Awns, A = Awned, TA = Tip-Awned, and AL = Awnless

Line	Grain Yield	Test Weight	Heading Date	Height	Lodging
DH19SRW08-020	89.3	59.2+	114-	27	1.7
AgriMAXX 513	88.4	56.9	118	28	3.0
USG 3875	88.2	57.1	118	27	1.2
Dyna-Gro 9593	88.1	56.9	118	27	1.0
MAS #67	88.1	57.9	119+	30+	1.0
MAS #252	88.1	54.9-	118	27	1.2
Dyna-Gro 9393	87.7	57.4	120+	26-	1.7
MAS #86	87.5	56.6-	118	30+	2.0
USG 3363	87.0	56.6-	118	29	3.0
USG EXP 3446	86.8	57.4	116-	28	1.0
VA23W-40	86.5	58.3	115-	26	3.2
KWS578	86.4	59.2+	118	27	2.0
AGS 4714	86.1	59.5+	117	28	3.7+
SH 9520	86.0	57.5	120+	28	2.7
LA15093SB-30-3-3	85.3	56.1-	118	32+	1.7
18VTK18-112	85.2	58.5+	117-	29	1.2
VA23W-319	84.9	57.8	118	28	1.0
AgriMAXX 553	84.7	57.2	118	26-	2.5
Dyna-Gro 9422	84.6	55.5-	118	28	2.7
LA19333-NDH34	84.3	58.5+	119+	29	0.5-
AgriMAXX 545	83.9	55.2-	118	26-	2.0
AgriMAXX 525	83.8	57.2	118	26-	2.2
KWS585	83.8	57.0	118	27	4.0+
SH 7200	83.2	58.3	116-	29	1.5
MAS #225	82.7	56.8-	119+	28	3.0
USG 3234	82.0	59.3+	118	29	3.2
Dyna-Gro 9231	81.8	57.0	118	29	2.0
Dyna-Gro 9612	81.1	55.3-	117	26-	2.0
MBX 127	81.1	56.4-	119	27	2.7
MAS #190	81.0	56.9	120+	26-	1.7
USG 3352	80.4	57.0	118	28	3.7+
Dyna-Gro 9172	80.1	56.0-	119+	26	3.0
USG EXP 3556	80.1	54.9-	119	27	5.0+
USG EXP 3246	79.7-	58.9+	118	26-	1.0
mean	89.0	57.6	118	28	2.2
LSD	9.0	0.8	1	2	1.3
CV	7.3	1.0	1	4	42.1

continued ...

A plus or minus sign indicates a performance significantly above or below the test average.
The 0-9 ratings indicate a genotype's response to disease or lodging where 0 = highly resistant
and 9 = highly susceptible.
FHB = Fusarium Head Blight Score (0-9)
FDK = Fusarium Diseased Kernels (percent)
DON = Deoxynivalenol concentration in the kernels (ppm)
Awns, A = Awned, TA = Tip-Awned, and AL = Awnless

Line	Grain Yield	Test Weight	Heading Date	Height	Lodging
SH 4222	79.5-	56.2-	118	28	2.0
USG 3755	79.3-	56.0-	118	26	1.7
26R33	79.0-	57.8	120+	28	1.5
MAS #155	78.3-	55.4-	118	28	2.5
MAS #133	76.8-	54.6-	118	27	1.2
AgriMAXX 543	76.7-	55.3-	118	28	1.7
MAS #316	76.4-	56.3-	119+	30+	2.0
AGS 4023	75.9-	59.2+	119+	28	0.7-
MAS #2	75.7-	58.2	119+	30+	3.5
26R45	75.6-	55.3-	119+	27	3.0
MAS #139	75.5-	56.4-	118	26-	1.8
AgriMAXX 505	74.7-	57.1	116-	28	2.5
26R59	74.7-	55.9-	118	25-	2.0
AgriMAXX EXP 2430	74.5-	56.1-	114-	29	2.0
Dyna-Gro 9151	74.3-	56.5-	118	28	3.0
Dyna-Gro 9570	73.9-	55.9-	118	27	4.0+
MASSEY	72.5-	57.5	119+	31+	4.2+
USG 3472	71.9-	56.0-	119+	26-	3.2
FS 891	71.5-	57.7	118	27	2.2
FS 745	69.6-	55.7-	120+	26	2.7
FS 743	69.3-	56.0-	119+	28	2.0
FS 747	68.8-	55.6-	118	28	2.0
MAS #205	67.2-	57.2	118	29	4.2+
MAS #106	61.3-	57.5	113-	25-	3.5
mean	89.0	57.6	118	28	2.2
LSD	9.0	0.8	1	2	1.3
CV	7.3	1.0	1	4	42.1

A plus or minus sign indicates a performance significantly above or below the test average.
The 0-9 ratings indicate a genotype's response to disease or lodging where 0 = highly resistant
and 9 = highly susceptible.

FHB = Fusarium Head Blight Score (0-9)

FDK = Fusarium Diseased Kernels (percent)

DON = Deoxynivalenol concentration in the kernels (ppm)

Awns, A = Awned, TA = Tip-Awned, and AL = Awnless

Winter Barley in 2025

Table 11: Virginia state winter barley official variety test at 6 sites across Virginia in 2025. Sites included Blacksburg, Blackstone, Orange, Painter, Holland, and Warsaw VA.

Line	Grain Yield bu/ac (6)	Test Weight lb/bu (6)	Heading Date Julian (2)	Height in (2)	Lodging 0-9 (4)	Powdery Mildew 0-9 (2)	Spot Blotch 0-9 (1)
18/253/54	99.2+	48.3	116+	33	0.8	0.3	4.0
18/252/16	98.8+	49.0	116+	34+	0.5	0.8	3.0
19/262/36	98.2+	46.2-	114+	33	0.3	0.1	4.0
KWS Chillis	96.4+	45.8-	118+	34+	1.4	0.3	5.0
VA22M-205	95.8+	51.2+	115+	32	1.1	0.5	5.5
VA22B-337	93.5+	48.9	114	33	2.5	0.5	2.0
VA21B-6 LA	92.6	50.2+	110-	33	0.7	0.3	3.5
19/312/39	92.5	47.3-	116+	32	1.0	0.3	3.0
KWS Antonis	91.4	48.0	117+	35+	-0.0	0.5	4.0
18/252/55	91.3	49.2	117+	32	0.6	0.3	5.0
VA23B-727	90.8	49.9+	110-	30	0.7	0.6	4.5
VA18B-34	90.7	49.9+	111	28-	0.3	0.1	5.0
KWS Avatis	90.5	48.2	119+	31	0.1	0.5	5.5
17/310/65	90.4	49.4	113	33	2.4	0.5	6.0
16/476/18	90.2	48.3	116+	30	0.3	0.3	5.0
VA23B-744	89.7	51.1+	110-	33	0.5	0.1	5.5
mean	85.3	48.6	112	31	1.3	0.4	4.5
LSD	8.2	1.2	1	2	1.4	0.5	3.8
CV	16.2	3.4	1	7	141.3	107.1	41.7

continued ...

A plus or minus sign indicates a performance significantly above or below the test average.
The 0-9 ratings indicate a genotype's response to disease or lodging where 0 = highly resistant and 9 = highly susceptible.
FHB = Fusarium Head Blight Score (0-9)
FDK = Fusarium Diseased Kernels (percent)
DON = Deoxynivalenol concentration in the kernels (ppm)
Awns, A = Awned, TA = Tip-Awned, and AL = Awnless

Line	Grain Yield	Test Weight	Heading Date	Height	Lodging	Powdery Mildew	Spot Blotch
VA22B-342	89.7	49.0	112	32	2.6	0.3	4.5
SB255	89.6	49.7	111	34+	0.2	0.6	4.0
16/449/77	89.6	48.8	113	31	0.4	0.3	3.0
VA22B-354	89.2	47.2-	112	34+	1.3	0.5	4.5
VA23B-726	89.2	48.2	110-	33	1.3	0.3	6.0
VA23M-619	89.1	48.7	112	33	1.6	0.3	5.0
THOROUGHbred	88.4	48.6	112	30	1.4	0.5	3.5
VA21B-7 LA	88.4	49.6	112	31	1.7	0.5	4.0
VA23B-775	88.3	49.9+	110-	30	0.2	0.5	6.0
VA23M-699	88.2	49.5	109-	29	0.4	0.5	4.0
VA22B-336	88.0	49.5	112	33	3.1+	0.6	5.0
MARQUETTA	87.9	48.0	113	33	1.0	0.5	5.0
VA23M-616	86.9	46.3-	113	31	0.9	0.3	5.0
VA22B-361	86.8	48.0	113	33	0.9	0.5	5.0
VA23B-750	85.6	49.2	110-	32	1.8	0.3	5.0
VA23B-776	85.4	48.6	110-	33	2.1	0.3	4.5
SECRETARIAT	85.3	49.4	110-	31	1.6	0.5	3.0
CALYPSO	85.0	48.2	115+	28-	1.8	0.5	3.5
VA23B-728	84.5	49.8	110-	30	0.5	0.6	4.0
VA22M-70	84.5	49.4	115+	28-	4.6+	0.8	5.0
VA23B-712	84.3	49.1	111	31	1.1	0.1	5.5
mean	85.3	48.6	112	31	1.3	0.4	4.5
LSD	8.2	1.2	1	2	1.4	0.5	3.8
CV	16.2	3.4	1	7	141.3	107.1	41.7

continued ...

A plus or minus sign indicates a performance significantly above or below the test average.
The 0-9 ratings indicate a genotype's response to disease or lodging where 0 = highly resistant and
9 = highly susceptible.
FHB = Fusarium Head Blight Score (0-9)
FDK = Fusarium Diseased Kernels (percent)
DON = Deoxynivalenol concentration in the kernels (ppm)
Awns, A = Awned, TA = Tip-Awned, and AL = Awnless

Line	Grain Yield	Test Weight	Heading Date	Height	Lodging	Powdery Mildew	Spot Blotch
VA23B-708	84.0	47.9	109-	30	0.3	0.1	5.0
VA23B-714	84.0	49.9+	111	30	2.7+	0.6	5.5
13184p2	83.9	47.9	113	26-	1.8	0.3	4.0
VA23B-770	83.0	49.2	109-	30	0.3	0.3	4.5
FLAVIA	82.4	48.6	116+	24-	2.0	0.5	3.5
HIRONDELLA	81.4	47.1-	116+	30	0.7	0.1	3.0
VA23B-707	80.3	46.1-	109-	27-	0.7	0.5	4.0
AVALON	80.2	51.0+	112	33	3.1+	1.1+	5.5
VIOLETTA	78.0	49.8+	113	27-	1.3	0.6	4.5
BARSOY	75.2-	47.6	108-	32	2.8+	0.6	4.0
13458a7	72.9-	46.4-	115+	28-	2.4	0.6	5.0
GREG	71.8-	58.4+	113	33	1.0	0.3	6.0
BC Leandra	68.2-	47.1-	111-	20-	0.9	0.5	1.5
WYSOR	67.8-	45.8-	110-	36+	2.3	0.6	4.0
NOMINI	63.0-	45.9-	109-	34+	0.5	0.5	7.5
VT_BEAHM	62.9-	46.1-	109-	36+	0.0	0.1	5.0
VA92-42-46	60.7-	45.3-	110-	36+	0.8	0.3	7.0
mean	85.3	48.6	112	31	1.3	0.4	4.5
LSD	8.2	1.2	1	2	1.4	0.5	3.8
CV	16.2	3.4	1	7	141.3	107.1	41.7

A plus or minus sign indicates a performance significantly above or below the test average.

The 0-9 ratings indicate a genotype's response to disease or lodging where 0 = highly resistant and 9 = highly susceptible.

FHB = Fusarium Head Blight Score (0-9)

FDK = Fusarium Diseased Kernels (percent)

DON = Deoxynivalenol concentration in the kernels (ppm)

Awns, A = Awned, TA = Tip-Awned, and AL = Awnless

Table 12: Virginia state winter barley official variety test across 11 site-years in 2024 and 2025.

Line	Grain Yield bu/ac (11)	Test Weight lb/bu (11)	Heading Date Julian (4)	Height in (4)	Lodging 0-9 (6)	Powdery Mildew 0-9 (3)	Spot Blotch 0-9 (2)	Scald 0-9 (2)	FHB 0-9 (1)	Leaf Rust 0-9 (2)	BYDV 0-9 (3)	FDK % (1)	DON ppm (1)
18/253/54	112.4+	47.7	113+	34	1.0	0.2	5.0	0.8	6.0	1.7	0.1	12	20
18/252/16	111.9+	47.0	114+	35	0.9	0.6	5.5	0.8	4.0	0.4	-0.0	10	9
18/252/55	109.5+	47.4	114+	33	0.8	0.2	5.3	0.8	6.5+	0.6	-0.0	10	13
VA22B-337	106.1+	48.8	110	36+	2.4	0.3	3.5	1.7	4.5	0.4	-0.0	10	16
VA22B-342	105.5+	48.3	110	35	2.4	0.2	5.3	0.4	5.5	0.7	-0.0	15	11
VA22B-354	105.0+	47.7	109	36+	1.4	1.2+	5.0	2.1	5.0	1.7	-0.0	15	12
VA22B-336	104.7+	48.8	109	35+	2.5	0.5	4.8	0.1	4.0	2.1	-0.0	18	13
VA22B-361	103.7+	48.3	110	36+	1.3	0.3	6.3	0.5	4.0	1.4	-0.0	15	13
16/476/18	103.6+	47.4	113+	31-	0.1-	0.2	5.8	1.8	6.5+	0.6	-0.0	15	18
VA21B-6 LA	103.2+	50.0+	107-	36+	1.3	0.2	4.5	1.4	4.0	1.1	0.1	17	13
VA21B-7 LA	102.6	49.0	109-	34	1.8	0.3	4.0	0.2	4.0	0.7	-0.0	12	18
VA18B-34	102.2	49.5+	108-	32-	0.6-	0.0	4.3	0.8	4.5	0.7	-0.0	12	18
MARQUETTA	100.1	46.7	110	34	1.8	0.3	5.5	1.3	5.5	0.4	-0.0	7	9
THOROUGHbred	99.3	47.9	109	32-	1.9	0.3	3.8	0.5	5.0	2.6	-0.0	15	19
SECRETARIAT	97.5	48.0	107-	33	2.2	0.3	3.5	1.3	4.0	0.4	-0.0	8	12
SB255	97.1	49.1	108-	35	1.2	0.5	5.5	2.4	4.0	0.7	1.8+	20	12
HIRONDELLA	94.5	45.7-	113+	31-	1.8	0.0	4.0	0.8	6.0	0.4	-0.0	18	11
mean	95.6	47.8	110	34	1.7	0.4	4.8	1.2	4.2	1.0	0.5	15	13
LSD	7.3	1.5	1	1	1.1	0.7	2.4	2.5	2.1	1.6	0.7	12	
CV	17.4	6.5	1	6	101.2	180.6	35.1	117.4	24.0	140.0	145.2	39	

continued ...

A plus or minus sign indicates a performance significantly above or below the test average.

The 0-9 ratings indicate a genotype's response to disease or lodging where 0 = highly resistant and 9 = highly susceptible.

BYDV = Barley Yellow Dwarf

FHB = Fusarium Head Blight Score (0-9)

FDK = Fusarium Diseased Kernels (percent)

DON = Deoxynivalenol concentration in the kernels (ppm)

Awns, A = Awned, TA = Tip-Awned, and AL = Awnless

Line	Grain Yield	Test Weight	Heading Date	Height	Lodging	Powdery Mildew	Spot Blotch	Scald	FHB	Leaf Rust	BYDV	FDK	DON
VA22M-70	92.2	48.1	112+	30-	3.5+	0.6	4.8	0.8	2.0-	0.4	-0.0	5	9
CALYPSO	88.2-	46.1-	113+	30-	2.4	0.3	5.0	0.8	2.5	0.4	1.8+	23	22
BARSOY	86.3-	46.9	105-	34	2.9+	0.5	4.0	2.2	4.0	1.6	-0.0	21	11
AVALON	85.4-	49.4+	110	35	2.6	0.9	5.0	1.8	2.0-	1.2	1.7+	10	12
FLAVIA	83.6-	46.8	113+	27-	1.7	0.3	3.8	1.8	4.5	0.4	5.7+	20	13
WYSOR	82.6-	43.5-	107-	38+	2.5	0.5	4.3	0.8	4.5	2.6	-0.0	23	12
GREG	82.3-	57.5+	111+	36+	1.7	0.2	7.0	2.1	1.5-	2.2	-0.0	30+	8
NOMINI	82.1-	45.7-	105-	37+	1.3	0.3	5.5	1.3	3.0	1.7	-0.0	22	10
VIOLETTA	80.4-	47.8	110	28-	1.7	0.5	4.0	1.3	3.5	0.4	2.5+	12	9
VT_BEAHM	79.5-	45.2-	106-	39+	1.0	0.0	3.8	0.4	3.5	1.1	-0.0	7	9
VA92-42-46	76.4-	44.4-	106-	38+	1.7	0.2	5.3	2.4	4.0	0.4	-0.0	10	10
mean	95.6	47.8	110	34	1.7	0.4	4.8	1.2	4.2	1.0	0.5	15	13
LSD	7.3	1.5	1	1	1.1	0.7	2.4	2.5	2.1	1.6	0.7	12	
CV	17.4	6.5	1	6	101.2	180.6	35.1	117.4	24.0	140.0	145.2	39	

A plus or minus sign indicates a performance significantly above or below the test average.

The 0-9 ratings indicate a genotype's response to disease or lodging where 0 = highly resistant and 9 = highly susceptible.

BYDV = Barley Yellow Dwarf

FHB = Fusarium Head Blight Score (0-9)

FDK = Fusarium Diseased Kernels (percent)

DON = Deoxynivalenol concentration in the kernels (ppm)

Awns, A = Awned, TA = Tip-Awned, and AL = Awnless

Table 13: Virginia state winter barley official variety test across 17 site-years from 2023 to 2025.

Line	Grain Yield bu/ac (17)	Test Weight lb/bu (17)	Heading Date Julian (6)	Height in (6)	Lodging 0-9 (12)	FHB 0-9 (2)	Leaf Rust 0-9 (3)	FDK % (2)	DON ppm (2)	Powdery Mildew 0-9 (3)	Spot Blotch 0-9 (2)	Scald 0-9 (2)	BYDV 0-9 (3)
MARQUETTA	118.7+	47.9-	111+	36	1.1	4.7+	0.4-	11	16	0.3	5.5	1.4	-0.1
VA21B-7 LA	118.4+	50.0	110	36	1.3	3.5	1.6	18	17	0.3	4.0	0.2	-0.1
VA18B-34	116.5+	50.6+	109	34-	0.7-	4.0	1.7	13	20	-0.0	4.2	0.9	-0.1
VA21B-6 LA	116.0+	51.3+	108-	37+	1.1	3.2	1.6	13	14	0.1	4.5	1.5	0.1
THOROUGHbred	115.9+	49.2	110+	35	1.1	4.0	4.5+	36	24+	0.3	3.7	0.5	-0.1
SB255	111.7+	50.6+	109	37+	1.0	3.2	2.3	20	13	0.4	5.5	2.5	1.8+
SECRETARIAT	110.7	48.9	108-	33-	1.9	4.0	0.4-	18	15	0.3	3.5	1.4	-0.1
HIRONDELLA	109.6	46.9-	114+	33-	1.1	4.0	0.5-	15	17	-0.0	4.0	0.9	-0.1
FLAVIA	103.7	48.4	114+	28-	0.9	4.0	1.7	21	14	0.3	3.7	1.9	5.7+
AVALON	100.8	50.8+	111+	36	1.9	1.5-	2.1	30	12	0.8+	5.0	1.8	1.7+
BARSOY	99.6	48.6	106-	35	2.5+	3.7	3.5+	19	13	0.4	4.0	2.2	-0.1
GREG	91.0-	58.2+	113+	38+	1.3	1.0-	3.7+	53+	6	0.1	7.0	2.1	-0.1
VT BEAHM	87.5-	46.3-	106-	41+	0.8	3.5	2.5	26	8	-0.0	3.7	0.5	-0.1
NOMINI	87.1-	46.1-	106-	38+	1.3	3.2	3.8+	40	15	0.3	5.5	1.4	-0.1
VA92-42-46	79.2-	46.0-	107-	39+	1.9	3.5	1.9	30	13	0.1	5.2	2.5	-0.1
mean	104.4	49.3	110	36	1.3	3.4	2.2	24	15	0.2	4.6	1.5	0.6
LSD	6.6	1.0	1	1	0.6	1.3	1.3	20	8	0.5	2.5	2.8	0.8
CV	17.8	5.7	1	6	109.0	27.3	67.4	58	27	199.1	38.4	107.8	127.3

A plus or minus sign indicates a performance significantly above or below the test average.

The 0-9 ratings indicate a genotype's response to disease or lodging where 0 = highly resistant and 9 = highly susceptible.

BYDV = Barley Yellow Dwarf

FHB = Fusarium Head Blight Score (0-9)

FDK = Fusarium Diseased Kernels (percent)

DON = Deoxynivalenol concentration in the kernels (ppm)

Awns, A = Awned, TA = Tip-Awned, and AL = Awnless

Table 14: Virginia state winter barley official variety test in Blacksburg, VA in 2025.

Line	Grain Yield bu/ac	Test Weight lb/bu	Heading Date Julian	Height in	Lodging 0-9	Powdery Mildew 0-9
KWS Chillis	141.4+		119+	36	-0.0	0.0
18/253/54	139.3+	49.0	117+	37+	0.0	-0.0
17/310/65	138.6+	50.4+	113+	35	-0.0	-0.0
VA22B-336	136.6+	49.9+	112	38+	2.0+	0.5+
18/252/55	136.4+	48.8	118+	34	-0.0	0.0
18/252/16	136.3+	49.0	116+	37+	-0.0	0.0
MAROUETTA	133.6+	48.6	113+	35	-0.0	0.0
19/312/39	131.7+	48.6	117+	34	0.0	0.0
VA22B-354	127.5	48.9	111	39+	-0.0	0.0
19/262/36	127.5	48.2	114+	36	0.5	0.0
16/449/77	126.6	49.4	114+	35	-0.0	-0.0
VA22B-361	126.4	49.7+	111	38+	-0.0	0.0
VA18B-34	125.7	50.6+	110-	31-	-0.0	0.0
HIRONDELLA	125.4	48.1	115+	32	-0.0	0.0
VA21B-7 LA	125.0	50.2+	111	36	1.0	0.0
VA22B-337	123.7	49.7+	114+	38+	-0.0	-0.0
VA23B-744	123.5	51.6+	108-	37+	1.5+	-0.0
SECRETARIAT	123.3	49.7+	108-	34	0.5	0.0
VA23B-712	123.3	49.1	110-	36	-0.0	0.0
16/476/18	122.5	49.0	117+	33	-0.0	0.0
VA23B-714	121.9	49.0	109-	35	-0.0	-0.0
VA23B-776	120.9	49.9+	108-	37+	0.5	0.0
VA22M-205	119.4	50.9+	113	32	-0.0	-0.0
VA23B-726	119.4	48.2	109-	35	0.0	0.0
CALYPSO	119.1	48.8	115+	27-	-0.0	-0.0
VA23B-750	118.6	50.2+	108-	36	1.0	0.0
VA21B-6 LA	118.6	50.3+	109-	37+	0.5	0.0
THOROUGHbred	118.4	48.8	110	34	0.5	0.0
SB255	118.4	50.4+	110	39+	0.5	-0.0
VA22B-342	116.7	49.0	112	35	0.5	-0.0
VA23B-775	115.4	49.3	108-	33	-0.0	0.0
mean	114.0	48.8	111	34	0.3	0.0
LSD	14.5	0.7	1	2	0.9	0.3
CV	9.0	1.1	1	5	158.2	752.4

continued ...

A plus or minus sign indicates a performance significantly above or below the test average.
The 0-9 ratings indicate a genotype's response to disease or lodging where 0 = highly resistant and 9 = highly susceptible.

FHB = Fusarium Head Blight Score (0-9)

FDK = Fusarium Diseased Kernels (percent)

DON = Deoxynivalenol concentration in the kernels (ppm)

Awns, A = Awned, TA = Tip-Awned, and AL = Awnless

Line	Grain Yield	Test Weight	Heading Date	Height	Lodging	Powdery Mildew
VA22M-70	113.5	49.8+	113+	31-	-0.0	0.0
KWS Antonis	111.4	49.3	117+	37+	-0.0	-0.0
VA23M-619	110.6	47.2-	111	36	0.0	0.0
FLAVIA	107.8	47.3-	114+	26-	-0.0	-0.0
VA23M-699	107.6	49.4	108-	34	0.5	0.0
VA23M-616	107.2	44.9-	114+	32	0.0	0.0
VA23B-727	106.1	49.9+	108-	33	0.5	-0.0
VIOLETTA	103.6	50.0+	112	27-	0.0	0.0
WYSOR	103.6	45.8-	109-	39+	1.0	0.0
VA23B-770	102.8	49.8+	107-	33	0.0	0.0
VA23B-708	100.5	49.2	108-	33	0.0	-0.0
13184p2	100.0	46.1-	112	27-	0.0	0.0
13458a7	98.7-	46.0-	114+	28-	0.0	0.0
AVALON	98.1-	51.2+	111	37+	2.0+	1.0+
KWS Avatis	96.8-	47.9-	120+	32	-0.0	-0.0
BARSOY	95.0-	48.2	108-	34	1.5+	0.0
VA23B-728	94.8-	49.1	108-	33	-0.0	0.0
NOMINI	94.3-	45.1-	108-	36	0.5	0.0
VA23B-707	87.8-	46.0-	108-	29-	0.5	-0.0
VT BEAHM	87.0-	45.9-	108-	38+	0.0	-0.0
VA92-42-46	79.3-	44.5-	108-	38+	-0.0	0.0
GREG	76.7-	56.6+	112	35	0.0	0.0
BC Leandra	70.1-	45.4-	108-	20-	-0.0	-0.0
mean	114.0	48.8	111	34	0.3	0.0
LSD	14.5	0.7	1	2	0.9	0.3
CV	9.0	1.1	1	5	158.2	752.4

A plus or minus sign indicates a performance significantly above or below the test average.
The 0-9 ratings indicate a genotype's response to disease or lodging where 0 = highly resistant and 9 = highly susceptible.

FHB = Fusarium Head Blight Score (0-9)

FDK = Fusarium Diseased Kernels (percent)

DON = Deoxynivalenol concentration in the kernels (ppm)

Awns, A = Awned, TA = Tip-Awned, and AL = Awnless

Table 15: Virginia state winter barley official variety test in Blackstone, VA in 2025.

Line	Grain Yield bu/ac	Test Weight lb/bu	Lodging 0-9
18/253/54	110.2+	49.8-	0.4
19/312/39	108.4+	50.2	0.5
19/262/36	104.6+		-0.0
KWS Chillis	101.0		0.0
18/252/16	98.0	50.6	0.2
MARQUETTA	97.9	50.4	0.5
VA23M-616	97.2	49.8-	1.7
VA22M-205	94.2		1.5
VA22B-354	94.1	51.7	-0.2
VA23B-727	93.8	52.6	0.1
VA23B-770	93.6	52.2	0.2
18/252/55	92.9	50.8	-0.0
KWS Avatis	91.9	49.9-	0.0
KWS Antonis	91.9		-0.0
VA22B-337	91.8	52.0	2.0
VA23M-699	91.7	53.2+	0.2
VA21B-6 LA	90.4	53.1+	1.8
VA23B-775	90.2	53.5+	-0.0
CALYPSO	90.0	51.5	1.2
VA22B-361	89.1	51.9	0.5
THOROUGHbred	88.6	50.8	1.0
16/449/77	88.4	50.6	-0.0
VA23M-619	86.6	50.6	1.7
VA18B-34	86.6	53.1+	0.0
AVALON	86.3	52.9+	4.7+
SB255	85.4	51.9	0.5
13184p2	85.3	50.7	1.3
FLAVIA	84.3	51.3	0.8
16/476/18	83.9	50.0	-0.2
mean	85.0	51.4	1.3
LSD	16.6	1.4	2.7
CV	13.3	1.6	141.4

continued ...

A plus or minus sign indicates a performance significantly above or below the test average.

The 0-9 ratings indicate a genotype's response to disease or lodging where 0 = highly resistant and 9 = highly susceptible.

FHB = Fusarium Head Blight Score (0-9)

FDK = Fusarium Diseased Kernels (percent)

DON = Deoxynivalenol concentration in the kernels (ppm)

Awns, A = Awned, TA = Tip-Awned, and AL = Awnless

Line	Grain Yield	Test Weight	Lodging
VA23B-744	83.7	54.3+	0.2
VA23B-708	83.6	50.0-	-0.2
VA23B-776	83.3	53.0+	2.7
VA23B-728	82.0	52.7	0.2
VA23B-707	78.5	48.8-	0.5
VA23B-750	78.2	53.0+	2.0
VA23B-712	78.2	51.6	0.7
GREG	78.0		1.2
17/310/65	76.0	50.8	4.5+
VA21B-7 LA	75.2	52.1	2.2
VA23B-726	75.1	50.2	3.3
VIOLETTA	75.0	52.2	0.3
VA22B-342	74.8	51.7	3.5
HIRONDELLA	73.1	50.4	1.3
VA22M-70	70.5	50.1	8.0+
VA22B-336	70.5	50.9	4.7+
SECRETARIAT	68.5	51.9	2.0
VA23B-714	67.4-	52.4	4.3+
13458a7	66.6-	50.0-	4.2+
BARSOY	65.7-	49.1-	3.0
BC Leandra	57.0-		-0.0
NOMINI			-0.0
VA92-42-46			-0.0
VT_BEAHM			-0.2
WYSOR			2.2
mean	85.0	51.4	1.3
LSD	16.6	1.4	2.7
CV	13.3	1.6	141.4

A plus or minus sign indicates a performance significantly above or below the test average.

The 0-9 ratings indicate a genotype's response to disease or lodging where 0 = highly resistant and 9 = highly susceptible.

FHB = Fusarium Head Blight Score (0-9)

FDK = Fusarium Diseased Kernels (percent)

DON = Deoxynivalenol concentration in the kernels (ppm)

Awns, A = Awned, TA = Tip-Awned, and AL = Awnless

Table 16: Virginia state winter barley official variety test in Holland, VA in 2025.

Line	Grain Yield bu/ac	Test Weight lb/bu
VA23M-619	66.3+	52.0
VA22B-337	61.2	44.9
VA22B-336	59.5	50.3
THOROUGHbred	57.8	48.7
VA23B-750	56.5	50.8
VA22B-342	56.0	51.6
VA23B-727	55.5	49.9
VA21B-6 LA	54.2	49.7
AVALON	54.1	46.5
13184p2	53.9	50.2
VA22M-205	53.8	
VA22B-354	53.7	37.7
VA23B-708	53.4	40.0
18/252/16	51.8	48.9
VA23B-714	51.2	52.5
VA23B-726	50.7	46.4
KWS Chillis	50.6	43.9
VA23B-712	50.1	50.7
VA22M-70	49.5	52.4
VA23B-775	49.4	52.6
18/253/54	49.2	47.3
17/310/65	47.9	48.7
CALYPSO	47.6	47.8
VA23B-728	47.3	50.9
HIRONDELLA	46.4	51.0
VA22B-361	46.3	37.1-
SECRETARIAT	45.9	50.6
mean	47.5	47.9
LSD	15.1	10.7
CV	21.3	7.7

continued ...

A plus or minus sign indicates a performance significantly above or below the test average.

The 0-9 ratings indicate a genotype's response to disease or lodging where 0 = highly resistant and 9 = highly susceptible.

FHB = Fusarium Head Blight Score (0-9)

FDK = Fusarium Diseased Kernels (percent)

DON = Deoxynivalenol concentration in the kernels (ppm)

Awns, A = Awned, TA = Tip-Awned, and AL = Awnless

Line	Grain Yield	Test Weight
SB255	45.8	43.9
VA21B-7 LA	45.8	46.8
KWS Antonis	45.7	46.0
VA23B-770	45.1	
18/252/55	44.8	51.3
19/262/36	44.6	44.6
VA23B-776	44.1	
VA23M-616	44.1	47.4
KWS Avatis	43.7	
FLAVIA	43.4	
16/476/18	42.9	
VA18B-34	42.6	
BARSOY	41.5	
VA23B-707	40.9	
VA23M-699	40.8	
MARQUETTA	40.0	
19/312/39	39.6	
VIOLETTA	39.5	
13458a7	39.2	
16/449/77	38.5	
GREG	37.7	
BC Leandra	33.4	
VT_BEAHM	29.0-	
NOMINI		
VA23B-744		
VA92-42-46		

WYSOR

mean	47.5	47.9
LSD	15.1	10.7
CV	21.3	7.7

A plus or minus sign indicates a performance significantly above or below the test average.

The 0-9 ratings indicate a genotype's response to disease or lodging where 0 = highly resistant and 9 = highly susceptible.

FHB = Fusarium Head Blight Score (0-9)

FDK = Fusarium Diseased Kernels (percent)

DON = Deoxynivalenol concentration in the kernels (ppm)

Awns, A = Awned, TA = Tip-Awned, and AL = Awnless

Table 17: Virginia state winter barley official variety test in Orange, VA in 2025.

Line	Grain Yield bu/ac	Test Weight lb/bu
KWS Avatis	96.3+	48.6
KWS Antonis	95.9+	47.5
VA23B-727	91.3	49.0
VA22M-205	89.5	51.2+
FLAVIA	89.3	48.9
VA23B-708	88.4	47.7
VA23B-728	87.0	48.3
18/253/54	86.9	47.4
VA23M-699	85.8	48.2
16/449/77	85.0	47.7
VA21B-6 LA	84.7	49.4
CALYPSO	84.6	49.4
SB255	83.8	48.1
VA23B-707	83.4	44.5-
VA23B-744	83.4	50.4+
VIOLETTA	82.9	51.6+
18/252/55	79.4	48.4
19/262/36	79.2	46.5-
VA22B-354	78.3	48.0
VA23B-726	77.0	47.3
VA23M-619	76.3	48.2
VA23B-775	75.9	47.3
16/476/18	75.4	48.2
13184p2	75.2	50.2+
VA23B-770	74.8	47.2
VA22B-337	74.7	47.1
THOROUGHbred	74.6	48.8
mean	74.4	48.2
LSD	18.3	1.6
CV	17.3	2.2

continued ...

A plus or minus sign indicates a performance significantly above or below the test average.

The 0-9 ratings indicate a genotype's response to disease or lodging where 0 = highly resistant and 9 = highly susceptible.

FHB = Fusarium Head Blight Score (0-9)

FDK = Fusarium Diseased Kernels (percent)

DON = Deoxynivalenol concentration in the kernels (ppm)

Awns, A = Awned, TA = Tip-Awned, and AL = Awnless

Line	Grain Yield	Test Weight
VA22B-342	74.0	46.2-
KWS Chillis	73.9	46.0-
18/252/16	73.8	49.0
19/312/39	72.2	46.6-
MARQUETTA	71.8	48.0
VA22B-361	71.8	48.4
VA21B-7 LA	71.2	48.4
HIRONDELLA	71.0	46.5-
VA22M-70	70.7	49.0
VA18B-34	70.4	48.2
VA23M-616	68.9	45.4-
VA23B-712	68.2	46.5-
SECRETARIAT	66.7	48.1
GREG	66.3	59.1+
VA22B-336	65.8	46.5-
VA23B-750	64.7	48.0
13458a7	63.6	47.5
17/310/65	63.3	48.4
BARSOY	62.6	46.6-
BC Leandra	61.8	50.4+
AVALON	60.0	49.1
VA23B-776	59.0	47.9
VA23B-714	54.6-	46.9
VT_BEAHM	47.4-	
NOMINI	38.2-	
VA92-42-46		

WYSOR

mean	74.4	48.2
LSD	18.3	1.6
CV	17.3	2.2

A plus or minus sign indicates a performance significantly above or below the test average.

The 0-9 ratings indicate a genotype's response to disease or lodging where 0 = highly resistant and 9 = highly susceptible.

FHB = Fusarium Head Blight Score (0-9)

FDK = Fusarium Diseased Kernels (percent)

DON = Deoxynivalenol concentration in the kernels (ppm)

Awns, A = Awned, TA = Tip-Awned, and AL = Awnless

Table 18: Virginia state winter barley official variety test in Painter, VA in 2025.

Line	Grain Yield bu/ac	Test Weight lb/bu	Lodging 0-9
VA18B-34	95.5+		1.0
16/476/18	92.0	52.2	0.3
BARSOY	89.5	50.7	5.0
17/310/65	88.9	51.2	1.3
VA23M-699	88.6	52.8	-0.0
VA22M-205	88.2		1.3
16/449/77	87.5	52.2	0.3
VA21B-6 LA	86.7	49.8	-0.0
VA21B-7 LA	85.5	52.3	3.0
SB255	83.9	52.9	0.0
VA23B-707	83.8	49.4	1.0
VA23M-619	83.5	53.1	3.3
19/262/36	82.5	47.4	0.0
THOROUGHbred	82.5	50.3	3.3
VA22B-342	82.1	51.1	6.0+
18/252/16	81.9	47.9	1.0
VA23B-727	80.2	51.4	1.3
VA23B-744	80.2		-0.0
VA23B-775	80.2	54.3+	-0.0
VA23B-714	80.1	52.8	6.0+
AVALON	80.0	54.8+	4.3
VA23B-726	79.0		1.3
GREG	78.3		2.0
KWS Antonis	77.6		-0.0
VA22B-336	76.5	51.7	5.3
VA23B-776	76.5	47.0	5.3
VA23M-616	76.2	50.4	-0.0
VA23B-728	75.7	53.0	0.0
VA22B-361	75.5	49.6	2.3
mean	75.5	49.7	2.3
LSD	18.8	4.0	3.7
CV	17.4	4.3	100.6

continued ...

A plus or minus sign indicates a performance significantly above or below the test average.

The 0-9 ratings indicate a genotype's response to disease or lodging where 0 = highly resistant and 9 = highly susceptible.

FHB = Fusarium Head Blight Score (0-9)

FDK = Fusarium Diseased Kernels (percent)

DON = Deoxynivalenol concentration in the kernels (ppm)

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Awns, A = Awned, TA = Tip-Awned, and AL = Awnless

Line	Grain Yield	Test Weight	Lodging
18/253/54	75.4	49.0	1.0
VA22B-337	75.2	52.2	6.7+
VA23B-750	74.5	46.4	4.0
VA23B-712	73.6	48.3	3.0
SECRETARIAT	73.4	50.4	2.0
KWS Avatis	73.1		0.3
VA22M-70	71.1	47.1	7.7+
19/312/39	71.0	49.5	3.0
VA23B-708	70.5	49.4	-0.0
18/252/55	69.4		1.7
13184p2	69.4	49.4	4.7
MAROUETTA	67.9	47.9	1.0
KWS Chillis	67.6	43.8-	4.7
FLAVIA	67.5	50.7	6.0+
VA23B-770	66.4	50.7	0.0
VA22B-354	66.1	47.0	4.0
13458a7	65.2	46.6	3.7
HIRONDELLA	64.3	45.4-	-0.0
VIOLETTA	63.7	51.5	0.7
BC Leandra	63.5	46.8	1.0
VT_BEAHM	62.8	46.8	-0.0
WYSOR	57.4	47.0	5.0
CALYPSO	57.2	45.9	4.0
VA92-42-46	57.1	48.0	2.3
NOMINI	56.6-	46.3	1.0
mean	75.5	49.7	2.3
LSD	18.8	4.0	3.7
CV	17.4	4.3	100.6

A plus or minus sign indicates a performance significantly above or below the test average.

The 0-9 ratings indicate a genotype's response to disease or lodging where 0 = highly resistant and 9 = highly susceptible.

FHB = Fusarium Head Blight Score (0-9)

FDK = Fusarium Diseased Kernels (percent)

DON = Deoxynivalenol concentration in the kernels (ppm)

Awns, A = Awned, TA = Tip-Awned, and AL = Awnless

Table 19: Virginia state winter barley official variety test in Warsaw, VA in 2025.

Line	Grain Yield bu/ac	Test Weight lb/bu	Heading Date Julian	Height in	Lodging 0-9
18/252/16	151.3+	46.9	115+	30	1.0
KWS Chillis	148.7+	43.7-	116+	32+	1.0
19/262/36	147.3+	41.5-	115	29	1.0
KWS Avatis	146.5+	44.9	118+	29	0.5
18/253/54	137.4+	46.6	115+	30	1.5
VA22B-342	135.8	47.9+	113	29	0.5
VA22B-337	134.7	48.2+	114	29	1.5
SECRETARIAT	134.1	47.3	112	26	1.7
19/312/39	132.2	42.8-	114	30	0.7
VA23B-776	131.4	47.3	112	30	0.2
VA22M-70	130.8	47.9+	118+	25-	1.5
VA23B-726	130.8	46.6	112-	31	0.7
17/310/65	129.7	46.2	113	30	2.5+
VA22M-205	129.6	48.1+	117+	31	1.5
VA23M-616	128.0	41.9-	112	29	1.5
KWS Antonis	125.7	44.8	118+	33+	0.2
VA21B-7 LA	124.8	46.7	113	27	1.0
13184p2	124.3	44.4	115	24-	1.5
16/476/18	123.3	43.6-	114	27	1.0
VA22B-336	122.2	47.7+	112	28	0.5
VA21B-6 LA	122.2	48.1+	112-	29	0.5
18/252/55	121.6	47.2	117+	29	1.0
VA23B-714	121.2	47.5	113	26	0.7
VA23B-750	121.2	47.0	111-	29	0.5
SB255	120.5	47.7+	113	29	0.2
VA18B-34	120.5	47.8+	112	24-	0.5
VA23B-728	120.1	47.1	111-	27	1.5
VA23B-727	119.4	46.9	113	26	1.0
VA23B-775	118.5	46.7	111-	26	1.0
VA22B-354	118.3	42.9-	114	29	1.2
mean	119.3	46.0	113	28	1.2
LSD	17.3	1.6	1	3	1.0
CV	10.1	2.4	1	7	58.8

continued ...

A plus or minus sign indicates a performance significantly above or below the test average.

The 0-9 ratings indicate a genotype's response to disease or lodging where 0 = highly resistant and 9 = highly susceptible.

FHB = Fusarium Head Blight Score (0-9)

FDK = Fusarium Diseased Kernels (percent)

DON = Deoxynivalenol concentration in the kernels (ppm)

Awns, A = Awned, TA = Tip-Awned, and AL = Awnless

Line	Grain Yield	Test Weight	Heading Date	Height	Lodging
VA23B-744	117.1	47.9+	111-	28	0.7
MAROUETTA	116.5	45.6	113	31+	2.3+
VA23B-770	116.1	47.3	111-	28	1.0
VA23B-712	112.3	48.0+	113	25-	1.0
VA22B-361	112.1	44.9	114	28	1.0
BC Leandra	111.7	44.7	114	20-	2.2+
16/449/77	111.5	45.6	113	26	1.2
CALYPSO	111.5	44.9	115	28	2.0
VA92-42-46	111.0	43.1-	111-	34+	1.2
VA23M-619	110.8	45.4	112	29	1.2
VA23B-708	110.2	45.5	110-	26	1.2
THOROUGHbred	108.6	45.7	113	27	1.0
VA23M-699	107.8	46.3	111-	25-	1.0
HIRONDELLA	107.7	42.8-	118+	28	1.5
VA23B-707	107.2	42.8-	111-	25-	1.0
13458a7	107.1	43.8-	117+	27	1.0
FLAVIA	106.7	46.3	118+	22-	1.5
BARSOY	105.9	44.5	109-	29	2.0
AVALON	104.7	49.8+	114	30	1.7
VIOLETTA	103.2	44.8	114	27	3.5+
NOMINI	95.7-	44.7	110-	32+	1.0
WYSOR	92.8-	43.5-	112	33+	1.0
VT.BEAHM	90.7-	44.8	110-	34+	0.5
GREG	90.3-	55.7+	115	31	0.7
mean	119.3	46.0	113	28	1.2
LSD	17.3	1.6	1	3	1.0
CV	10.1	2.4	1	7	58.8

A plus or minus sign indicates a performance significantly above or below the test average.

The 0-9 ratings indicate a genotype's response to disease or lodging where 0 = highly resistant and 9 = highly susceptible.

FHB = Fusarium Head Blight Score (0-9)

FDK = Fusarium Diseased Kernels (percent)

DON = Deoxynivalenol concentration in the kernels (ppm)

Awns, A = Awned, TA = Tip-Awned, and AL = Awnless