



Virginia Cooperative Extension

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Virginia Small Grain Official Variety Trials, 2024

Authored by: Nicholas Santantonio, Assistant Professor - Small Grain Breeding and Genetics, School of Plant and Environmental Sciences, Virginia Tech; Caleb Bishop, Research Specialist Senior, School of Plant and Environmental Sciences, Virginia Tech; Limei Liu, Research Associate, School of Plant and Environmental Sciences, Virginia Tech; John Seago, Research Specialist, School of Plant and Environmental Sciences, Virginia Tech; Jitender Rathore, Graduate Research Assistant, School of Plant and Environmental Sciences, Virginia Tech; Ivy Flory, Graduate Research Assistant, School of Plant and Environmental Sciences, Virginia Tech; Matthew J. Wright, Research Assistant, School of Plant and Environmental Sciences, Virginia Tech; and Olga S. Walsh, Associate Professor - Grain Crops, Extension Specialist, School of Plant and Environmental Sciences, Virginia Tech.

Location Supervisors: Nicholas Santantonio, Wynse Brooks, Jon Light (Blacksburg); Matthew Chappell and Margaret Kenny (Blackstone); Hunter Frame and Sean Malone (Holland); Gregory Lillard (Orange); Mark Reiter and Andrew Fletcher (Painter); Joseph Oakes and Mark Vaughn (Warsaw).

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Introduction

This report presents results from barley and wheat trials conducted in Virginia in 2023-2024 (June 2024 harvest). In Virginia, small grain cultivar performance trials are conducted each year by the Virginia Tech School of Plant and Environmental Sciences and the Virginia Agricultural Experiment Station. The trials 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 reported for individual locations, and across locations and years. 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. Details about management practices for barley and wheat are listed for each experiment location.

Acknowledgement

Appreciation is expressed to the Virginia Small Grains Check-Off Board, AgriMAXX, CORTEVA Agriscience Agriculture Division of DowDuPont, Eddie Mercer Agri-Services, Inc., Erwin-Keith, Inc., Featherstone Farm Seed, Inc., KWS Cereals, Limagrain Cereal Seeds, Local Seed Company, Meherrin Ag & Chemical, Mid-Atlantic Seeds, Nutrien Ag Solutions, Syngenta Seeds, Inc., UniSouth Genetics, Inc., Winfield United, and the Virginia Crop Improvement Association for their financial support of the Small Grains Variety Testing Program at Virginia Tech.

The 2023-24 Growing Season

Heat and drought during the grain fill period led to rapid maturation and reduced grain test weight for the 2023-2024 growing season. Fortunately, precipitation throughout the region during mid- to late grain fill largely saved the small grain crop. Another period of heat and low precipitation at maturation helped mature the crop 1-2 weeks earlier than typical and allowed growers to get into the field to harvest with plenty of time. Disease pressure was high in some regions. Barley yellow dwarf virus had very high infection rates in Eastern and Southern Virginia, and especially in fields that were planted early. Leaf rust came in earlier than typical in Eastern Virginia and the Eastern Shore and was particularly detrimental for those Eastern growers who did not apply fungicides to treat Fusarium Head blight (scab) infection. Powdery mildew was observed in Eastern Virginia but low pressure due to high temperatures and dry conditions shortly after disease onset. Fusarium head blight (scab) pressure was moderate across most of the state and came on slightly later than typical years.

Companies Participating in the Virginia Small Grains Official Variety Trials, 2024

Table 1.1. Barley

Company	Address
Limagrain Cereal Seeds (LCS)	7099 Parkbrook Lane, Cordova, TN 38018
Oregon State University	253A Crop Science Building 3050 SW Campus Way Corvallis, OR 97330
Virginia Tech and Virginia Crop Improvement Association (VT and VCIA)	9142 Atlee Station Road, Mechanicsville, VA 23116

Table 1.2. Wheat

Company	Address
AgriMAXX Wheat Company	7167 Highbanks Road, Mascoutah, IL 62258
AgriPro	1521 N Convent Street Suite 200, Bourbonnais, IL 60914
CROPLAN	1080 County Road F West, MS 5850, Shoreview, MN 55126-2910
CORTEVA Agriscience Agriculture Division of DowDuPont (Pioneer)	974 Centre Rd, Chestnut Run Plaza Bldg. 735, Wilmington, DE 19805
Eddie Mercer Agri-Services, Inc. (Mercer Brand)	6900 Linganore Road, Frederick, MD 21701
Erwin-Keith, Inc. (Progeny Ag Products)	1529 Highway 193, Wynne, AR 72396
Featherstone Farm Seed, Inc.	13941 Genito Road, Amelia, VA 23002
University of Florida	3105 McCarty Hall B, Gainesville, FL 32611
University of Georgia	1109 Experiment Street, Griffin, GA 30223
GROWMARK (FS Wheat)	1701 Towanda Avenue, Bloomington, IL 61722
KWS Cereals	495 County Road 1300 N, Champaign, IL 61822
Local Seed Company LLC	802 Rozelle Street, Memphis, TN 38104
Meherrin Agricultural & Chemical Company (Southern Harvest)	4136 Severn Road, Severn, NC 27877
Mid-Atlantic Seeds	204 St. Charles Way, #163E, York, PA 17402
NC State University (SunGrains)	840 Method Road Unit 3, Raleigh, NC 27695-7629
Nutrien Ag Solutions (Dyna-Gro Seed)	15277 Richmond-Tappahannock Highway, St Stephens Church, VA 23148
UniSouth Genetics, Inc. (USG)	3205 C Highway 46S, Dickson, TN 37055
Virginia Tech and Virginia Crop Improvement Association (VT and VCIA)	9142 Atlee Station Road, Mechanicsville, VA 23116

Virginia Tech Barley Varieties

For more than ten years, the Virginia Tech Barley Breeding program has been conducting barley research funded by commodity boards (Virginia Small Grains Board, Maryland Grain Producer Utilization Board, and Kentucky Small Grains Growers Association), American Malting Barley Association, Brewers Association and the US Wheat and Barley Scab Initiative. The goal of the breeding program is to develop high yielding, disease resistant barley cultivars adapted to the mid-Atlantic and southeastern US region and with qualities designed for specific end uses (feed, malt, food, and others). Overall, our intent is to make winter barley a more competitive crop in the eastern US by implementing a program to develop barley cultivars with greater marketability in both domestic and foreign markets.

Table 1. Performance of entries in the Virginia Tech Barley Test, 5 site-years, 2024.

Line	Grain Yield, bu/ac (4)	Test Weight, lb/bu (4)	Heading Date, Julian (2)	Height, in (2)	Lodging, 0-9 (2)	Powdery Mildew, 0-9 (1)	Leaf Rust, 0-9 (1)	FHB Plant Response, 0-9 (1)	BYDV, 0-9 (2)
18/253/54	137.9+	46.4	110+	34.5	2	0	3	6	0
18/252/55	134.1+	45.1	110+	34.3	1	0	1	7+	0
VA22B-354	131.0+	46.8	106	38.6+	2	6	3	5	0
18/252/16	129.9+	45.4	112+	36.9	2	0	1	4	0
VA22B-361	129.7+	47.4	107	38.8+	2	0	3	4	0
VA22B-342	129.2+	46.6	107	37.1	2	0	2	6	0
VA22B-360	129.0+	48.0	108	38.1+	1	8	4	4	0
18/252/57	129.0+	46.5	111+	34.9	0	0	1	7+	0
VA20BFHB-18DH495 LX	128.5+	49.0+	103-	40.9+	3	0	1	5	0
VA22B-349	127.8+	47.4	107	38.4+	2	8	3	6	0
16/476/18	127.3+	45.9	111+	32.6-	0-	0	1	7+	0
VA22B-337	126.9	47.7	107	38.3+	2	0	1	5	0
VA22B-351	126.8	47.6	107	38.5+	3	7	1	4	0
VA22B-336	126.2	47.0	107	37.6	2	0	4	4	0
VA21B-7 LA	125.3	47.5	106-	36.9	2	0	2	4	0
VA22B-348	125.3	46.4	107	38.9+	3	0	3	5	0
SECRETARIAT	123.7	47.8	104-	34.6	3	0	1	4	0
VA17B-166 LA	123.5	49.1+	104-	37.3	1	5	3	4	0
VA18B-34	123.2	48.3	105-	36.4	1	0	2	5	0
VA21B-6 LA	122.0	49.0+	104-	38.9+	2	0	2	4	0
VA22M-158	121.7	46.8	109+	34.3	0-	0	1	3	0
VA19B-20 LA	121.4	46.5	108+	36.0	1	0	1	4	0
VA20B-40 LA	121.2	45.9	107	36.8	0	0	3	5	0
VA20BFHB-18DH442 SA	120.8	47.4	105-	34.5	3	0	1	5	0
VA18B-39	120.0	47.9	105-	35.6	2	0	1	4	0
mean	117.1	46.7	107	35.9	2	1	2	4	0
LSD	10.0	1.8	1	1.7	1	NA	2	2	1
CV	12.0	5.5	1	4.8	75	NA	89	24	114
Continued...									

Line	Grain Yield, bu/ac (4)	Test Weight, lb/bu (4)	Heading Date, Julian (2)	Height, In (2)	Lodging, 0-9 (2)	Powdery Mildew, 0-9 (1)	Leaf Rust, 0-9 (1)	FHB Plant Response, 0-9 (1)	BYDV, 0-9 (2)
VA18B-43 LA	118.9	47.5	105-	36.0	0-	0	2	5	0
VA21BFHB-19DH0143	118.7	46.3	109+	29.8-	1	0	3	3	0
VA18B-52 LA (Dec.)	118.5	48.4	104-	36.5	2	0	1	5	0
THOROUGHbred	117.6	46.0	107	34.4	3	0	4+	5	0
VA20B-35 LA	117.0	46.5	108+	36.6	0-	7	2	4	1+
VA20B-37 LA	116.7	48.3	106-	36.5	1	0	1	4	0
MARQUETTA	114.6	44.7-	108	34.6	3	0	1	6	0
VA21BFHB-19DH0184	114.1	46.6	110+	29.4-	1	0	1	3	1
VA21BFHB-19DH0303	112.0	46.9	112+	31.9-	2	0	2	3	0
HIRONDELLA	110.8	43.4-	109+	32.1-	4+	0	1	6	0
SB255	110.5	47.6	105-	37.0	3	0	2	4	2+
VA22M-70	110.2	46.3	108+	32.1-	2	0	1	2-	0
NOMINI	107.3	45.3	102-	39.8+	3	0	3	3	0
BARSOY	106.4-	46.2	103-	35.6	3	0	2	4	0
VT_BEAHM	104.3-	45.8	102-	41.5+	3	0	2	4	0
WYSOR	104.1-	41.7-	104-	39.9+	3	0	3	5	0
VA92-42-46	98.0-	42.5-	103-	40.6+	3	0	1	4	0
GREG	95.4-	56.4+	110+	39.5+	3	0	4	2-	0
AVALON	90.8-	46.8	108	36.1	2	0	2	2-	2+
CALYPSO	87.6-	42.5-	111+	32.0-	3+	0	1	3	2+
FLAVIA	86.3-	44.0-	110+	28.9-	1	0	1	5	6+
VIOLETTA	81.2-	44.9-	107	29.1-	2	0	1	4	3+
mean	117.1	46.7	107	35.9	2	1	2	4	0
LSD	10.0	1.8	1	1.7	1	NA	2	2	1
CV	12.0	5.5	1	4.8	75	NA	89	24	114

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=Awed, TA=Tip-Awed, and AL=Awless

Table 2. Performance of entries in the Virginia Tech Barley Test, 12 site-years, 2023 and 2024.

Line	Grain Yield, bu/ac (11)	Test Weight, lb/bu (11)	Heading Date, Julian (4)	Height, In (4)	Lodging, 0-9 (8)	Leaf Rust, 0-9 (3)	FHB, 0-9 (2)	Powdery Mildew, 0-9 (1)	Spot Blotch, 0-9 (1)	Scald, 0-9 (1)	BYDV, 0-9 (3)	FDK, % (1)	DON, ppm (1)
VA20B-35 LA	140.0+	50.0	111+	38	0.6	3.4+	3.0	7.0	5.5	0.0	1.1+	35	19
VA20BFHB-18DH495 LX	137.1+	51.2+	105	41+	2.4+	2.4	3.5	0.0	5.5	0.0	0.0	50	10
MARQUETTA	135.5+	47.9-	110+	37	1.2	0.4-	4.8+	0.0	6.0	0.5	0.0	15	22
VA21B-7 LA	134.3+	50.3	109	38+	1.2	1.6	3.5	0.0	4.0	0.0	0.0	23	17
VA21BFHB-19DH0143	132.8+	49.7	112+	31-	0.1-	1.9	2.0	0.0	6.5	0.5	0.1	55	9
VA20B-40 LA	131.9+	49.6	111+	38+	0.6	4.1+	3.8	0.0	4.0	0.0	0.2	40	18
VA19B-20 LA	131.3	50.0	111+	37	0.4-	1.4	4.0	0.0	4.5	0.0	0.0	25	29
THOROUGHbred	130.9	49.7	110+	37	1.1	4.5+	4.0	0.0	4.0	0.0	0.0	58	29
VA18B-34	130.8	51.0	108-	37	0.9	1.7	4.0	0.0	3.5	0.0	0.0	13	23
VA20B-37 LA	130.4	50.3	108	39+	1.1	1.1	2.5	0.0	7.0	0.0	0.0	25	14
VA17B-166 LA	130.0	51.9+	107-	37	1.0	2.9	3.5	5.0	4.0	0.0	0.0	12	32
VA20BFHB-18DH442 SA	129.2	49.8	107-	35-	2.1+	2.3	4.3	0.0	5.0	0.0	0.0	15	12
VA18B-52 LA	129.1	51.4+	107-	36	1.4	1.1	4.3	0.0	4.0	-0.3	0.0	23	19
VA21B-6 LA	128.6	51.8+	107-	40+	1.4	1.6	3.3	0.0	5.5	2.0+	0.1	7	15
VA18B-39	127.7	50.6	108-	36	1.2	1.0	3.0	0.0	5.0	0.0	0.0	15	14
VA18B-43 LA	125.3	50.6	109	36	0.0-	1.6	3.5	0.0	4.0	0.0	0.1	33	24
HIRONDELLA	125.1	47.0-	113+	34	1.3	0.5-	4.0	0.0	5.0	0.0	0.0	12	24
VA21BFHB-19DH0184	124.9	49.3	113	31-	0.1-	1.3	1.8-	0.0	6.5	0.0	0.8	28	6
SECRETARIAT	124.7	48.9	107	35-	2.1+	0.4-	4.0	0.0	4.0	0.5	0.0	28	18
SB255	123.7	51.0+	108	39+	1.4	2.3	3.3	0.0	7.0	1.5	1.8+	20	14
VA21BFHB-19DH0303	122.7	49.2	115	34-	1.3	0.9	2.0	0.0	5.5	0.0	0.1	20	9
Mean	123.5	49.9	109	37	1.2	2.1	3.3	0.4	4.9	0.3	0.4	31	17
LSD	8.3	1.1	1	1	0.8	1.2	1.3	NA	2.2	1.5	0.7	34	NA
CV	15.6	5.3	1	5	116.7	67.5	28.0	NA	22.2	243.9	166.0	53	NA

Continued...

Line	Grain Yield, bu/ac (11)	Test Weight, lb/bu (11)	Heading Date, Julian (4)	Height, In (4)	Lodging, 0-9 (8)	Leaf Rust 0-9 (3)	FHB, 0-9 (2)	Powdery Mildew, 0-9 (1)	Spot Blotch, 0-9 (1)	Scald, 0-9 (1)	BYDV, 0-9 (3)	FDK, % (1)	DON, ppm (1)
FLAVIA	115.4	48.5-	113	30-	0.5	1.7	4.0	0.0	4.0	1.0	5.7+	23	16
BARSOY	112.3-	49.1	105	37	2.4+	3.5+	3.8	0.0	4.0	0.0	0.0	22	16
AVALON	112.0-	50.8	111	37	1.4	2.1	1.5-	0.0	4.5	0.0	1.7+	50	11
GREG	101.4-	58.4+	113	40+	1.5	3.7+	1.0-	0.0	8.0+	1.5	0.0	75+	4
VT_BEAHM	100.8-	46.5-	105	43+	1.2	2.5	3.5	0.0	2.5	0.0	0.0	45	8
NOMINI	99.9-	46.4-	104	40+	1.8	3.8+	3.3	0.0	3.5	0.5	0.0	58	21
VA92-42-46	91.4-	46.4-	107	40+	2.6+	1.9	3.5	0.0	3.5	0.5	0.0	50	15
Mean	123.5	49.9	109	37	1.2	2.1	3.3	0.4	4.9	0.3	0.4	31	17
LSD	8.3	1.1	1	1	0.8	1.2	1.3	NA	2.2	1.5	0.7	34	NA
CV	15.6	5.3	1	5	116.7	67.5	28.0	NA	22.2	243.9	166.0	53	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 3. Performance of entries in the Virginia Tech Barley Test, 18 site-years, 2022, 2023, and 2024.

Line	Grain Yield, bu/ac (17)	Test Weight, lb/bu (16)	Heading Date, Julian (7)	Heigh, in (6)	Lodging, 0-9 (10)	FHB, 0-9 (3)	FDK, % (2)	DON, ppm (2)	Leaf Rust, 0-9 (3)	Powdery Mildew, 0-9 (1)	Spot Blotch, 0-9 (1)	Scald, 0-9 (1)	BYDV, 0-9 (3)
VA20B-35 LA	129.2+	49.8	113+	36	0.5-	4.7	40	22	3.4+	7.0	5.5	0.0	1.1
MARQUETTA	127.2+	47.7-	113+	37	1.2	5.2	30	25	0.4-	0.0	6.0	0.5	0.0
VA20B-40 LA	123.5+	49.5	113+	37	0.5-	4.7	40	23	4.1+	0.0	4.0	0.0	0.2
THOROUGHbred	121.9+	50.0	112+	36	1.1	5.0	49	24	4.5+	0.0	4.0	0.0	0.0
VA18B-34	121.4+	50.5	110-	36	0.8	4.8	26	18	1.7	0.0	3.5	0.0	0.0
VA19B-20 LA	121.0+	49.6	113+	36	0.7	5.7	45	31	1.4	0.0	4.5	0.0	0.0
VA20BFHB-18DH442 SA	120.6+	49.2	110-	34-	2.0+	5.8+	30	15	2.3	0.0	5.0	0.0	0.0
VA20B-37 LA	120.6+	50.3	111	37+	1.2	4.2	48	20	1.1	0.0	7.0	0.0	0.0
VA17B-166 LA	119.6+	51.5+	110-	36	1.0	3.8	24	29	2.9	5.0	4.0	0.0	0.0
HIRONDELLA	118.9+	46.7	115+	33-	1.3	5.0	24	41+	0.5-	0.0	5.0	0.0	0.0
VA18B-52 LA	118.0	50.4	109-	35	1.2	5.3	46	18	1.1	0.0	4.0	-0.2	0.0
VA18B-39	117.6	50.1	110-	35-	1.1	4.5	22	16	1.0	0.0	5.0	0.0	0.0
SECRETARIAT	117.4	48.9	109-	34-	2.0+	4.7	34	18	0.4-	0.0	4.0	0.5	0.0
VA18B-43 LA	116.7	50.0	111	35	0.1-	4.8	36	20	1.6	0.0	4.0	0.0	0.1
SB255	114.8	50.7+	110-	38+	1.4	4.5	18	15	2.3	0.0	7.0	1.5+	1.8+
FLAVIA	106.3-	48.1-	116+	29-	0.4-	4.3	21	17	1.7	0.0	4.0	1.0	5.7+
BARSOY	105.1-	48.8	107-	36	2.5+	4.3	29	20	3.5+	0.0	4.0	0.0	0.0
AVALON	103.4-	50.6+	113+	37	1.2	2.8-	38	16	2.1	0.0	4.5	0.0	1.7+
GREG	93.9-	56.9+	115+	39	1.2	1.7-	47	7	3.7	0.0	8.0+	1.5+	0.0
Mean	113.0	49.5	111	36	1.2	4.4	36	20	2.2	0.5	4.7	0.3	0.4
LSD	6.2	1.0	1	1	0.6	1.4	25	14	1.2	NA	2.3	1.2	0.7
CV	15.6	5.9	1	5	109.4	28.8	49	34	63.6	NA	24.2	219.7	153.8

Continued...

Line	Grain Yield, bu/ac (17)	Test Weight, lb/bu (16)	Heading Date, Julian (7)	Heigh, in (6)	Lodging, 0-9 (10)	FHB, 0-9 (3)	FDK, % (2)	DON, ppm (2)	Leaf Rust, 0-9 (3)	Powdery Mildew, 0-9 (1)	Spot Blotch, 0-9 (1)	Scald, 0-9 (1)	BYDV, 0-9 (3)
VT_BEAHM	93.3-	47.2-	107-	42+	1.2	3.4	40	13	2.5	0.0	2.5	0.0	0.0
NOMINI	91.9-	46.4-	107-	39+	1.8	3.5	61+	19	3.8+	0.0	3.5	0.5	0.0
VA92-42-46	84.4-	46.3-	109-	39+	2.2+	3.8	45	14	1.9	0.0	3.5	0.5	0.0
Mean	113.0	49.5	111	36	1.2	4.4	36	20	2.2	0.5	4.7	0.3	0.4
LSD	6.2	1.0	1	1	0.6	1.4	25	14	1.2	NA	2.3	1.2	0.7
CV	15.6	5.9	1	5	109.4	28.8	49	34	63.6	NA	24.2	219.7	153.8

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

Table 4. Performance of entries in the Virginia Tech Barley Test, Kentland Farm, Blacksburg, VA, 2024.

Line	Grain Yield, bu/ac	Test Weight, lb/bu	Heading Date, Julian	Height, in	Lodging, 0-9	Powdery Mildew, 0-9	Leaf Rust, 0-9
18/253/54	173.6+	47.3-	112+	34	3.0	0.0	3.0
18/252/55	172.6+	45.5-	112+	35	2.3	0.0	1.3
16/476/18	170.4+	47.9	114+	33-	0.0-	0.0	1.3
18/252/57	165.3+	47.5	114+	35	0.2-	0.0	1.0
VA22B-342	163.9+	48.0	110	37	4.3	0.0	1.5
VA22B-336	161.7+	48.0	109	38	3.3	0.0	3.5
VA17B-166 LA	159.4+	50.3+	106-	38+	1.5-	5.0	2.8
VA22B-349	158.8	48.0	109	37	4.3	8.0	2.5
18/252/16	157.8	47.9	115+	37	3.3	0.0	1.0
HIRONDELLA	157.0	42.9-	111+	33-	7.0+	0.0	1.0
SECRETARIAT	156.8	48.4	106-	35	6.3-	0.0	1.0
VA20B-35 LA	156.1	48.3	110	38	0.5-	7.0	2.3
VA20BFHB-18DH495 LX	156.0	50.1+	105-	41+	6.3+	0.0	1.0
VA22B-360	155.7	48.7	111+	37	2.0	8.0	4.0
VA20BFHB-18DH442 SA	155.3	48.9	106-	34	6.5+	0.0	1.0
VA20B-40 LA	155.0	48.3	110	36	1.0-	0.0	3.3
VA22B-361	154.5	48.5	109	39+	4.0	0.0	2.5
VA21B-7 LA	153.7	48.6	108-	37	4.0	0.0	1.5
VA22B-348	153.3	47.3-	109	38	5.0	0.0	3.3
VA18B-52 LA (Dec.)	151.4	49.5+	106-	37	4.8	0.0	1.0
VA22B-354	151.0	47.0-	108-	38+	3.3	6.0	3.0
VA22B-351	151.0	48.4	109	37	5.5	7.0	1.0
VA18B-39	150.2	49.7+	107-	37	3.0	0.0	1.0
VA19B-20 LA	149.9	47.8	110	37	1.5-	0.0	1.0
VA18B-34	149.8	49.6+	108-	38	2.5	0.0	1.5
VA22B-337	149.7	48.8	110	37	4.5	0.0	1.0
Mean	148.0	48.2	109	36	3.8	0.9	1.8
LSD	11.1	0.8	1	2	2.0	NA	2.3
CV	5.4	1.2	1	4	38.3	NA	88.6

Continued...

Line	Grain Yield, bu/ac	Test Weight, lb/bu	Heading Date, Julian	Height, in	Lodging, 0-9	Powdery Mildew, 0-9	Leaf Rust, 0-9
VA21B-6 LA	149.7	50.3+	107-	40+	4.5	0.0	2.0
MARQUETTA	148.9	45.4-	110	34-	6.5+	0.0	1.0
VA21BFHB-19DH0143	147.3	48.6	111+	31-	1.5-	0.0	2.8
THOROUGHbred	146.2	47.0	109	33-	5.5	0.0	4.3+
VA22M-158	145.6	48.6	112	34	0.3-	0.0	1.0
VA21BFHB-19DH0184	143.6	48.9	111+	30-	1.8-	0.0	1.0
VA20B-37 LA	142.7	49.8	108-	37	2.8	0.0	1.0
VA22M-70	142.1	48.7	110	33-	3.5	0.0	1.0
FLAVIA	141.5	47.4	111+	31-	2.8	0.0	1.0
VA18B-43 LA	140.6	49.1	107-	37	0.8-	0.0	1.5
SB255	139.2	49.0	107-	38	5.5	0.0	1.5
VA21BFHB-19DH0303	137.7	47.8	115+	33-	4.0	0.0	1.5
BARSOY	136.5	47.5	105-	35	6.3+	0.0	1.5
CALYPSO	134.1	46.0	113+	34	6.8+	0.0	1.0
WYSOR	132.2	45.0	106-	40+	5.8	0.0	3.3
VIOLETTA	129.3	48.1	108-	32-	4.8	0.0	1.0
AVALON	128.9	50.1	109	37	4.0	0.0	2.3
NOMINI	127.1	45.2	104-	39+	5.5	0.0	3.0
VT_BEAHM	123.8	46.3	105-	41+	5.0	0.0	2.0
VA92-42-46	121.5	45.6	106-	39+	6.5+	0.0	1.0
GREG	108.0	58.6	112+	39+	5.8	0.0	3.8
Mean	148.0	48.2	109	36	3.8	0.9	1.8
LSD	11.1	0.8	1	2	2.0	NA	2.3
CV	5.4	1.2	1	4	38.3	NA	88.6

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=Awed, TA=Tip-Awed, and AL=Awnless

Table 5. Performance of entries in the Virginia Tech Barley Test, Southern Piedmont AREC, Blackstone, VA, 2024.

Line	Grain Yield, bu/ac	Test Weight, lb/bu	BYDV, 0-9
SECRETARIAT	147.3+	50.2	0.0
18/252/57	141.9	49.2	0.0
18/252/55	137.2	46.8-	0.0
18/253/54	137.2	48.2	1.0
VA18B-39	136.7	49.0	0.0
VA22B-342	134.0	48.3	0.0
VA22B-354	133.5	48.0	0.0
VA17B-166 LA	133.1	50.9+	0.0
VA20BFHB-18DH495 LX	132.9	51.3+	0.0
VA21B-7 LA	131.5	48.7	0.0
VA22B-360	131.3	50.9	0.0
VA18B-43 LA	131.2	49.2	1.0
VA22M-158	130.3	48.2	0.0
VA19B-20 LA	129.6	48.4	0.0
16/476/18	129.5	47.7	0.0
18/252/16	129.3	47.0	0.0
VA22B-351	128.2	49.3	0.0
VA22B-349	127.3	49.3	0.0
VA22B-361	127.1	48.7	0.0
VA21B-6 LA	125.3	51.1+	1.0
VA22B-336	124.4	49.4	0.0
BARSOY	123.2	49.1	0.0
VA22B-348	121.8	48.1	0.0
VA20BFHB-18DH442 SA	121.1	49.8	0.0
VA21BFHB-19DH0143	120.1	48.2	1.0
VA21BFHB-19DH0184	119.0	49.2	2.0
VA20B-37 LA	118.5	50.6+	0.0
VA20B-40 LA	118.5	46.2-	1.0
VA18B-34	118.0	50.2	0.0
VA22B-337	117.8	49.3	0.0
SB255	115.5	50.0	2.0
VA20B-35 LA	115.1	48.9	3.0+
VT_BEAHM	113.9	48.2	0.0
MARQUETTA	113.5	44.8	0.0
NOMINI	113.3	47.8	0.0
VA21BFHB-19DH0303	111.6	50.5+	1.0
THOROUGHbred	110.2	47.3	0.0
VA18B-52 LA (Dec.)	109.9	49.8	0.0
VA22M-70	108.0	48.0	0.0
HIRONDELLA	105.1	45.0-	0.0
WYSOR	101.1	47.2	0.0
GREG	100.5	59.6+	0.0
Mean	118.8	48.7	1.0
LSD	24.9	1.7	1.0
CV	15.0	2.6	106.0

Continued...

Line	Grain Yield, bu/ac	Test Weight, lb/bu	BYDV, 0-9
VA92-42-46	95.5	49.0	0.0
FLAVIA	85.4-	46.0-	6.0+
AVALON	84.8-	48.4	2.0+
CALYPSO	71.7-	43.1-	3.0+
VIOLETTA	71.4-	45.6-	4.0+
Mean	118.8	48.7	1.0
LSD	24.9	1.7	1.0
CV	15.0	2.6	106.0

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=Awed, TA=Tip-Awned, and AL=Awnless

Table 6. Performance of entries in the Virginia Tech Barley Test, Tidewater AREC, Holland, VA, 2024.

Line	Grain Yield, bu/ac	Test Weight, lb/bu
VA22B-337	112.9+	52.2
VA22B-348	107.5+	50.1
18/253/54	106.3+	49.9
VA22B-361	102.9	52.1
VA21B-6 LA	102.8	53.2+
VA22B-349	102.3	51.8
VA22B-354	100.4	51.3
VA22B-351	98.8	51.2
VA21BFHB-19DH0143	97.5	49.2
VA20B-35 LA	97.3	50.7
18/252/16	97.1	47.1
VA20BFHB-18DH495 LX	97.0	52.8
VA22M-158	97.0	48.8
VA21BFHB-19DH0303	96.2	49.5
VA18B-34	95.1	51.6
VA22B-360	94.8	50.7
VA21B-7 LA	94.2	51.9
VA22B-342	92.9	49.8
VA20B-40 LA	92.7	49.2
16/476/18	91.9	48.4
SB255	91.8	52.1
VA21BFHB-19DH0184	89.3	49.1
VA18B-52 LA (Dec.)	89.2	52.4
THOROUGHBRED	88.9	50.4
VA22B-336	88.4	50.5
18/252/57	86.4	50.0
18/252/55	85.8	49.7
VA18B-43 LA	83.8	50.5
VA17B-166 LA	83.5	52.2
VA20B-37 LA	83.5	51.6
GREG	83.4	58.5+
VA22M-70	82.9	48.4
VA19B-20 LA	82.5	50.0
BARSOY	70.3	50.4
SECRETARIAT	70.2	51.3
MARQUETTA	65.8-	48.5
AVALON	59.7-	49.9
VA18B-39	57.2-	51.1
VA20BFHB-18DH442 SA	57.2-	49.8
FLAVIA	55.6-	46.2
HIRONDELLA	53.7-	47.2
CALYPSO	53.2-	46.3
VIOLETTA	48.9-	48.3
VA92-42-46*		
Mean	85.8	48.8
LSD	18.4	4.1
CV	14.7	5.9

Continued...

Line	Grain Yield, bu/ac	Test Weight, lb/bu
VT_BEAHM*		
WYSOR*		
NOMINI*		
Mean	85.8	48.8
LSD	18.4	4.1
CV	14.7	5.9

*Excessive deer damage for awnless barley led to non-measurable yields

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=Awed, TA=Tip-Awned, and AL=Awnless

Table 7. Performance of entries in the Virginia Tech Barley Test, Eastern Virginia AREC, Warsaw, VA, 2024.

Line	Grain Yield, bu/ac	Test Weight, lb/bu	Heading Date, Julian	Height, in	Lodging, 0-9	BYDV, 0-9
18/252/55	140.7+	38.5-	108+	34-	0.0	0.0
VA22B-354	139.1+	41.1	105	39+	0.0	0.0
18/252/16	135.5+	39.5	108+	37	0.0	0.0
18/253/54	134.5+	40.2	107+	35	0.0	0.0
VA22B-360	134.2+	41.7+	105	40+	0.0	0.0
VA22B-361	134.1+	40.4	105	39+	0.0	0.0
VA18B-34	132.4+	42.0+	103-	35	0.0	0.0
VA22B-336	130.4+	40.0	105	38	0.0	0.0
MARQUETTA	130.0+	39.9	105	36	0.0	0.0
VA22B-351	129.1+	41.6+	105	40+	0.0	0.0
VA20BFHB-18DH495 LX	128.3+	41.9+	101-	41+	0.0	0.0
VA18B-39	127.9+	41.8+	103-	34	0.0	0.0
VA22B-337	127.3+	40.4	105	40+	0.0	0.0
VA22B-342	125.9+	40.5	105	38+	0.0	0.0
VA20BFHB-18DH442 SA	125.4+	41.0	103-	35	0.0	0.0
THOROUGHbred	125.1	39.2	105	36	0.0	0.0
VA19B-20 LA	123.5	39.8	106+	35	0.0	0.0
VA18B-52 LA (Dec.)	123.3	42.0+	102-	36	0.0	0.0
VA22B-349	122.6	40.6	105	40+	0.0	0.0
18/252/57	122.1	39.4	108+	35	0.0	0.0
VA21B-7 LA	122.0	40.9	103-	37	0.0	0.0
VA20B-37 LA	121.9	41.3+	103-	37	0.0	0.0
HIRONDELLA	120.7	38.3	107+	32-	0.0	0.0
VA18B-43 LA	120.1	41.2	104-	36	0.0	0.0
SECRETARIAT	119.6	41.6+	102-	34	0.0	0.0
VA22B-348	118.7	40.3	105	40+	0.0	0.0
VA20B-40 LA	118.5	40.0	105	37	0.0	0.0
VA17B-166 LA	118.1	43.0+	101-	36	0.0	0.0
16/476/18	117.3	39.6	108+	33	0.0	0.0
VA22M-158	113.9	41.5+	106+	34	0.0	0.0
NOMINI	113.2	39.8	101	40+	0.0	0.0
WYSOR	110.5	39.7	102-	40+	0.0	0.0
VA21B-6 LA	110.1	41.3	102-	38+	0.0	0.0
VA21BFHB-19DH0143	110.0	39.4	107+	29-	0.0	0.0
VA92-42-46	108.6	39.3	101-	42+	0.0	0.0
VA22M-70	107.9	40.1	106+	32-	0.0	0.0
VT_BEAHM	106.9	39.9	100-	42+	0.0	0.0
VA21BFHB-19DH0184	104.6-	39.1	109+	29-	0.0	1.0
VA21BFHB-19DH0303	102.6-	39.7	110+	31-	0.0	0.0
VA20B-35 LA	99.6-	38.3-	106+	35	0.0	1.0
SB255	95.6-	39.5	103-	36	0.0	3.0+
BARSOY	92.2-	38.1-	100-	36	0.0	0.0
CALYPSO	89.8-	35.0-	109+	30-	0.0	2.0+
Mean	116.0	40.2	105	36	0.0	0.0
LSD	9.3	1.1	1	2	0.0	1.0
CV	5.7	1.9	0	4	NA	155.0
Continued...						

Line	Grain Yield, bu/ac	Test Weight, lb/bu	Heading Date, Julian	Height, in	Lodging, 0-9	BYDV, 0-9
GREG	89.7-	49.1+	108+	40+	0.0	0.0
AVALON	89.6-	38.6-	106+	35	0.0	2.0+
VIOLETTA	75.0-	37.5-	106+	27-	0.0	3.0+
FLAVIA	62.9-	36.1-	108+	27-	0.0	6.0+
Mean	116.0	40.2	105	36	0.0	0.0
LSD	9.3	1.1	1	2	0.0	1.0
CV	5.7	1.9	0	4	NA	155.0

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. Performance of entries in the Virginia Tech Barley Test, Eastern Shore AREC, Painter, VA, 2024.

Line	Grain Yield, bu/ac	Test Weight, lb/bu	Leaf Rust, 0-9	BYDV, 0-9
VA22B-351	124.3	43.8	0.0	0.0
18/252/16	119.0	45.1	0.0	0.0
18/252/55	118.1	49.2	0.0	0.0
VA20B-35 LA	117.7	51.4	0.0	0.0
VA22B-336	117.3	52.2	0.0	0.0
MARQUETTA	115.1	49.0	0.0	0.0
VA22B-360	112.6	52.1	0.0	0.0
18/252/57	111.9	43.1	0.0	0.0
HIRONDELLA	107.3	48.9	0.0	0.0
VA20B-40 LA	106.0	50.6	0.0	0.0
VA22B-342	104.9	51.2	0.0	0.0
VA22B-361	101.3	52.4	0.0	0.0
VA18B-52 LA (Dec.)	101.0	52.3	0.0	0.0
CALYPSO	100.2	49.5	0.0	0.0
VA22B-337	97.9	52.2	0.0	0.0
VA18B-43 LA	96.7	51.7	0.0	0.0
VA21BFHB-19DH0184	96.6	51.2	0.0	0.0
VA18B-39	95.3	52.6	0.0	0.0
VA21B-7 LA	95.1	52.2	0.0	0.0
VA22B-354	94.2	52.8	0.0	0.0
GREG	93.6	57.2	0.0	0.0
VA22B-349	93.3	50.3	0.0	0.0
VA19B-20 LA	92.6	51.7	0.0	0.0
AVALON	92.5	52.2	0.0	0.0
THOROUGHbred	91.5	51.6	0.0	0.0
VA21B-6 LA	90.6	52.4	0.0	0.0
VIOLETTA	90.4	49.8	0.0	0.0
VA22M-158	89.7	49.6	0.0	0.0
18/253/54	89.1	50.1	0.0	0.0
VA20B-37 LA	88.3	52.4	0.0	0.0
SB255	88.1	52.1	0.0	0.0
VA18B-34	88.1	52.5	0.0	0.0
VA20BFHB-18DH495 LX	88.0	51.5	0.0	0.0
VA22B-348	85.7	45.5	0.0	0.0
VA92-42-46	85.6	49.1	0.0	0.0
16/476/18	84.2	49.5	0.0	0.0
FLAVIA	83.7	50.0	0.0	2.0
VA17B-166 LA	83.4	53.3	0.0	0.0
WYSOR	83.4	42.1	2.0+	0.0
VA20BFHB-18DH442 SA	83.0	48.2	0.0	0.0
VA21BFHB-19DH0143	72.7	50.8	0.0	0.0
VA21BFHB-19DH0303	72.2	49.2	0.0	0.0
SECRETARIAT	66.2	42.3	0.0	0.0
Mean	93.4	49.8	0.1	0.0
LSD	37.3	8.0	0.2	NA
CV	27.1	11.4	107.7	NA
Continued...				

Line	Grain Yield, bu/ac	Test Weight, lb/bu	Leaf Rust, 0-9	BYDV, 0-9
VA22M-70	59.4	49.9	0.0	0.0
BARSOY	37.3-	46.0	2.5+	0.0
NOMINI*		46.3	0.0	0.0
VT_BEAHM*		40.8-	0.0	0.0
Mean	93.4	49.8	0.1	0.0
LSD	37.3	8.0	0.2	NA
CV	27.1	11.4	107.7	NA

*Excessive deer damage for awnless barley led to non-measurable yields

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

Virginia Tech Wheat Varieties

Wheat trials were planted in seven-inch rows at Blackstone, Orange, Holland, Painter, and Shenandoah Valley. They were planted in six-inch rows at Blacksburg and Warsaw. The no-till locations (Holland and Shenandoah Valley) were planted at 48 seeds per square foot. All other locations were planted at 44 seeds per square foot. Due to excessive deer damage and poor yields, the tests at Painter and Holland are not included in over-location analysis for wheat.

Selecting the best wheat varieties is challenging but becomes easier with adequate information on performance over multiple environments. Past seasons across Virginia have provided the opportunity to evaluate day length sensitivity, spring freeze damage, glume blotch, scab (Fusarium head blight), and general plant health. Many newer wheat varieties and lines performed well in all environments tested.

Producers who grow large acreages of wheat should plant two or more varieties having significantly different maturity dates to ensure harvest of high-quality grain having high test weight and no sprouting. In Virginia it is typical for sporadic or consistent rain showers to interrupt harvest. These wetting and drying cycles and subsequent delays can significantly reduce grain test weight and quality. Growers can circumvent this problem by planting varieties that differ significantly in maturity. Early maturing varieties often can be harvested first and prior to significant rain showers, and later maturing varieties harvested subsequently will suffer less damage and losses in test weight and quality due to exposure to such a rain event.

Table 9. Performance of entries in the Virginia Tech Wheat Test, 6 site- years, 2024.

Line	Awns A-TA-AL	Grain Yield bu/ac (6)	Test Weight lb/bu (6)	Heading Date, Julian (2)	Height, in (2)	Lodging, 0-9 (2)	Powdery Mildew, 0-9 (2)	Leaf Rust, 0-9 (3)	FHB, 0-9 (1)	FDK, % (1)	BYDV 0-9 (2)
USG 3463	A	101.3+	56.7	116	36	1.6	1.7	2.5	3.5	8	3
USG 3673	AL	99.6+	58.2	115-	37	1.0	5.4+	0.2-	3.0	5	2
VA20FHB-18	A	99.4+	58.0	113-	40+	0.5	1.4	0.9	3.0	15	2
Southern Harvest 5123	AL	99.2+	58.0	116	37	1.1	3.2	0.4-	4.0	5	2
18VTK10-23	A	99.0+	59.8+	112-	39+	0.9	3.9+	1.6	1.0-	5	1-
MAS #226	A	98.3+	57.5	114-	33-	0.8	3.2	2.0	2.0	5	3
Dyna-Gro 9551	A	97.7+	55.7	112-	35-	0.6	2.9	6.2+	6.2	13	4+
MAS #86	A	97.6+	56.7	117	40+	1.0	4.2+	4.6	4.6	20	2
USG 3354	TA	96.3	56.5	113-	38	3.1	2.7	3.9	1.5-	8	2
InSpire FS 745	A	96.3	56.6	118+	38	0.8	3.2	4.6	5.0	13	2
VA20W-142	TA	96.2	58.0	116	39	1.2	1.7	1.0	4.5	10	2
MAS #155	A	96.0	56.6	117	39	0.8	1.4	6.8+	3.0	12	3
Liberty 5658	A	95.9	58.4+	114-	41+	0.8	2.7	2.4	3.5	8	1-
Dyna-Gro 9533	AL	95.8	55.3-	117	36	1.1	0.9	6.2+	2.0-	25	1-
AgriMAXX 545	A	95.8	55.5-	119+	36	0.8	1.9	5.0+	5.5	13	3
Revere 2347	A	95.7	57.5	117	39+	0.8	1.7	4.9+	2.5	10	2
Dyna-Gro 9570	A	95.7	56.5	116	38	2.0	3.4	4.2	4.0	18	4+
Revere 2169	A	95.6	57.0	118+	39	0.7	1.7	5.6	3.5	15	2
Dyna-Gro 9553	A	95.3	57.0	119+	36	0.5	3.4	2.2	2.5	5	2
VT Pitman	A	95.2	59.1+	114-	37	0.8	1.9	0.2-	5.5	13	1-
USG 3352	A	95.2	57.4	119+	39	1.1	3.2	3.0	5.0	18	3
Dyna-Gro 9290	A	95.0	57.8	114-	37	0.6	2.7	3.8	2.0-	10	4+
18VTK18-112	TA	94.7	57.3	115	41+	1.1	2.2	1.5	3.0	5	2
VA20FHB-20	A	94.6	59.7+	114-	39+	0.5	1.7	3.5	2.5	15	3
Southern Harvest 9520	A	94.5	57.4	120+	37	0.6	1.2	3.0	4.5	35+	3
16VDH-SRW03-023	TA	94.4	57.0	114-	39+	0.5	3.2	0.0-	5.0	8	2
mean		89.7	57.4	116	37	1.1	2.3	2.8	4.1	15	2
LSD		7.1	1.3	1	2	0.9	1.7	1.9	2.0	15	2
CV		13.5	3.7	1	4	88.1	53.0	61.1	24.1	51	47

Continued...

Line	Awns	Grain	Test	Heading	Height,	Lodging,	Powdery	Leaf	FHB,	FDK,	BYDV
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	A-TA-AL	Yield bu/ac (6)	Weight lb/bu (6)	Date, Julian (2)	in (2)	0-9 (2)	Mildew, 0-9 (2)	Rust, 0-9 (3)	0-9 (1)	% (1)	0-9 (2)
NC18-16900	AL	94.2	57.7	117	39+	1.1	1.2	0.2-	3.0	8	1-
26R33	A	94.2	57.5	117	37	0.7	1.4	4.7	4.0	13	4+
USG 3363	A	94.2	57.4	118	39+	0.8	2.4	4.2	3.0	8	2
Dyna-Gro 9393	A	94.1	57.5	118	36	0.6	3.4	3.4	4.5	13	3
USG 3451	AL	94.0	58.4+	114	37	2.4	2.7	1.8	1.5	5	1-
Revere 2277	A	94.0	57.2	120	37	0.6	0.7	3.7	5.5	18	2
USG 3661	TA	93.7	57.6	117	35-	2.5	2.2	0.4-	6.0	20	4+
InSpire FS 891	A	93.7	57.4	118	37	0.9	3.7	3.7	3.0	8	2
Dyna-Gro 9422	A	93.6	57.0	117	38	1.1	2.4	5.6+	3.5	13	4+
Dyna-Gro 9593	A	93.3	54.7-	115	35-	0.6	2.9	3.8	3.5	8	4+
GP 543	TA	93.2	56.2	112	38	2.5	1.2	2.7	3.0	8	3
EPIX 4480	A	93.2	56.9	119	36	0.6	3.9	4.0	4.5	13	2
MAS #139	A	93.1	56.2	117	36	0.6	3.4	5.8+	3.5	33	3
AGS 4043	A	93.1	58.7	115	34-	0.9	0.7	0.9	4.5	5	1-
Phoenix 29	A	93.1	57.8	118	37	0.7	1.4	2.6	3.0	28	1-
MAS #228	A	93.1	57.1	118	37	0.9	2.4	4.5	5.0	20	3
MBX 127	A	93.0	57.1	118	37	0.5	2.4	5.2+	4.5	5	2
GA15490ID-19-5-21LE2	A	92.9	57.6	117	38	0.7	3.9	1.9	7.0	48+	1-
AgriMAXX EXP 2404	A	92.8	57.2	119	35-	0.6	3.4	4.0	3.0	18	3
VA22W-196	AL	92.8	56.4	112	35-	1.0	2.7	0.7-	6.0	47+	2
Dyna-Gro 9231	A	92.7	56.8	117	40+	0.9	2.9	4.7	3.0	8	3
MAS #225	A	92.7	56.8	118	36	0.5	2.4	3.9	3.5	8	2
AgriMAXX 516	A	92.6	56.6	118	38	0.8	2.2	4.9	4.5	13	3
EPIX 3489	A	92.6	57.8	117	35-	1.1	4.2	4.3	4.5	10	2
NC15305-43	A	92.4	59.2+	116	37	0.8	4.9	0.5-	3.0	8	1-
AgriMAXX 535	A	92.1	58.3	118	36	0.5	1.7	3.3	4.5	13	3
KWS543	A	92.1	57.4	118	36	0.8	4.7	4.3	3.5	10	2
VA22W-201	A	92.1	58.8	114	34-	1.5	1.7	1.4	5.5	15	2
USG 3472	A	92.1	56.7	118	36	0.8	3.4	6.0+	4.0	8	2
mean		89.7	57.4	116	37	1.1	2.3	2.8	4.1	15	2
LSD		7.1	1.3	1	2	0.9	1.7	1.9	2.0	15	2
CV		13.5	3.7	1	4	88.1	53.0	61.1	24.1	51	47
Continued...											
Line	Awns	Grain	Test	Heading	Height,	Lodging,	Powdery	Leaf	FHB,	FDK,	BYDV

	A-TA-AL	Yield bu/ac (6)	Weight lb/bu (6)	Date, Julian (2)	in (2)	0-9 (2)	Mildew, 0-9 (2)	Rust, 0-9 (3)	0-9 (1)	% (1)	0-9 (2)
InSpire FS 743	A	92.0	57.7	118	39+	0.6	2.4	4.0	3.0	15	3
InSpire FS 747	AL	92.0	56.8	115	37	0.6	3.9	2.3	1.0	5	3
EPIX 4372	A	91.8	57.0	118	37	0.8	2.9	5.1	3.0	8	3
AgriMAXX 544	TA	91.8	56.9	115	38	0.8	4.4+	2.6	2.5	5	2
DH19SRW07-321	A	91.6	57.7	117	38	0.8	0.9	2.4	6.0	18	1
InSpire FS 855	A	91.6	56.9	118	38	0.6	1.7	3.4	2.5	5	3
DH19SRW08-020	A	91.6	58.7	112	35	0.8	1.2	1.4	4.5	13	1
EPIX 3498	A	91.5	57.9	118	37	0.9	1.4	4.6	5.5	15	2
MAS #227	A	91.4	57.4	119	36	1.4	2.2	3.4	4.0	5	3
19VTK7-66	A	91.2	56.9	117	41	1.9	1.2	0.4	3.0	10	2
Dyna-Gro 9172	A	91.1	56.5	118	37	0.9	3.4	6.4	3.5	10	3
AgriMAXX 525	A	90.8	56.6	119	35	0.7	2.7	4.9	4.5	13	5
VA22W-21	A	90.6	56.1	119	34	0.5	2.9	1.9	55	18	3
Dyna-Gro 9120	A	90.6	58.3	116	36	0.5	2.4	4.0	3.5	5	2
DH20SRW02-073	TA	90.5	57.6	118	36	2.1	0.7	0.0	5.0	20	2
CP8045	A	90.4	56.5	118	38	0.9	2.2	5.8	4.0	10	2
18VTK10-110	A	90.4	58.8+	118	36	0.5	1.4	1.2	4.5	10	1
VA18HRW-58	A	90.3	58.3	121	40	2.1	1.4	2.4	5.5	22	3
NC14757LDH-44	TA	90.1	57.6	114	38	1.8	1.2	0.6	5.0	13	1
19VDH-FHB-MAS05-27	TA	90.1	56.2	118	39	2.3	2.4	2.5	4.0	13	1
NC20-21971	TA	90.1	58.6+	114	40	2.4	1.2	0.6	6.0	5	1
VA20W-135	A	90.0	57.8	116	40	0.9	1.9	1.0	5.0	18	2
18VTK6-3	A	89.9	58.2	118	37	0.7	1.2	0.9	4.0	23	1
17VDH-SRW02-125	A	89.8	58.8	119	37	0.7	0.9	0.8	3.5	8	2
UMD-VTWVT24-2	TA	89.8	57.8	117	38	1.0	2.7	2.0	5.5	10	3
GP 381	AL	89.7	56.6	114	36	0.7	1.2	1.9	3.0	8	1
Southern Harvest 7200	A	89.6	58.7+	118	38	0.6	1.4	1.0	5.5	18	1
Featherstone 3000	AL	89.6	58.2+	117	37	0.7	4.9+	1.0	4.5	5	3
19VTK5-167	A	89.4	56.9	116	33	1.5	4.9=	0.6	5.0	15	2
mean		89.7	57.4	116	37	1.1	2.3	2.8	4.1	15	2
LSD		7.1	1.3	1	2	0.9	1.7	1.9	2.0	15	2
CV		13.5	3.7	1	4	88.1	53.0	61.1	24.1	51	47
Continued...											
Line	Awns	Grain	Test	Heading	Height,	Lodging,	Powdery	Leaf	FHB,	FDK,	BYDV

	A-TA-AL	Yield bu/ac (6)	Weight lb/bu (6)	Date, Julian (2)	in (2)	0-9 (2)	Mildew, 0-9 (2)	Rust, 0-9 (3)	0-9 (1)	% (1)	0-9 (2)
MAS #190	A	89.4	57.3	120	36	0.5	2.9	5.1	4.5	10	2
KWS527	A	89.3	57.1	118	38	1.0	1.9	4.4	3.0	8	3
18VTK15-27	TA	89.1	55.9	111	38	4.1	1.2	2.0	4.0	10	2
Southern Harvest 4222	A	89.0	57.7	117	39	0.9	1.7	5.0+	3.0	10	3
KWS542	A	89.0	57.2	116	40	1.1	2.4	2.2	3.5	10	2
EPIX 1375	TA	89.0	57.9	112	37	1.9	0.9	0.6-	4.5	7	3
Phoenix 96	A	89.0	58.2	120	41	0.7	0.9	2.6	4.5	47+	2
AgriMAXX 513	A	88.9	57.2	118	37	0.6	1.2	4.0	4.5	18	2
Dyna-Gro 9151	A	88.7	58.5+	118	38	0.9	2.4	5.1+	3.5	10	4+
MBX 230	A	88.6	57.6	117	39	0.9	2.2	5.1+	4.0	10	4+
17VTK4-29	AL	88.6	57.4	114	35	2.0	0.7	1.6	5.5	8	2
NC16VT30-7-47	TA	88.6	58.9	113	36	1.9	0.9	0.2-	5.5	10	1
DH19SRW07-309	A	88.5	57.7	117	39	0.6	1.2	3.4	6.5+	35+	1
Dyna-Gro Shirley	TA	88.5	56.4	117	35	0.8	0.7	1.0	6.5+	28	2
MAS #178	AL	88.4	56.6	118	39	0.9	1.7	2.2	4.0	12	2
Southern Harvest 7222	A	88.4	59.2	118	38	0.6	1.4	1.0	5.5	18	1
18VTK10-5	A	88.3	58.7	117	37	0.6	1.4	1.2	5.0	7	1
GA151313-LDH-192 -20E48	A	88.2	57.9	119	32	0.5	1.4	0.9	6.5	20	2
AgriMAXX 505	A	87.9	58.5	118	37	1.6	2.2	4.9	3.5	15	4+
USG 3884	A	87.8	57.4	116	35	0.8	2.7	2.4	3.0	8	3
19VDH-FHB-MAS03-29	AL	87.7	57.6	115	37	0.7	0.9	0.6	1.5-	15	2
18VDH-FHB-MAS07-173-03	A	87.2	56.8	116	40	2.7	0.7	0.6	5.5	18	3
15VTK-1-101	A	87.1	57.4	116	34	0.7	0.9	0.0	5.5	18	2
KWS529	AL	86.9	55.5-	116	36	1.6	5.9+	4.3	2.5	8	2
17VDH-SRW01-077	A	86.7	58.5	113	38	0.6	0.9	0.3	6.5+	8	4+
MAS #189	A	86.4	58.0	112	40	2.8	5.7	4.9	2.0-	5	2
DH17SRW136-066	TA	86.4	56.4	115	37	1.4	0.9	3.9	4.0	10	3
MAS #316	A	86.2	56.4	119	39	1.1	1.9	5.2	4.5	15	5+
26R59	TA	86.1	56.5	116	34	0.6	3.4	4.6	3.5	35	3
mean		89.7	57.4	116	37	1.1	2.3	2.8	4.1	15	2
LSD		7.1	1.3	1	2	0.9	1.7	1.9	2.0	15	2
CV		13.5	3.7	1	4	88.1	53.0	61.1	24.1	51	47
Continued...											
Line	Awns	Grain	Test	Heading	Height,	Lodging,	Powdery	Leaf	FHB,	FDK,	BYDV

	A-TA-AL	Yield bu/ac (6)	Weight lb/bu (6)	Date, Julian (2)	in (2)	0-9 (2)	Mildew, 0-9 (2)	Rust, 0-9 (3)	0-9 (1)	% (1)	0-9 (2)
VA21W-112	A	86.0	56.2	115	36	0.6	3.2	0.6	4.5	15	2
MAS #106	TA	85.8	57.4	110	35	2.5	6.2	3.4	3.0	5	2
GA131246LDH-86-21E2	A	85.8	55.6-	118	37	0.8	3.4	0.6	6.5	33+	3
USG 3574	AL	85.8	55.4	114	34	1.4	1.9	5.0	3.0	5	1
15VDH-FHB-MAS25-15	A	85.6	58.1	114-	36	0.5	1.4	0.6	5.5	20	2
MAS #2	AL	85.4	58.8+	119	45	3.9	3.7	4.6	4.5	10	2
UMD-VTWVT24-3	A	85.4	57.8	116	37	1.2	0.9	3.6	5.0	25	3
AgriMAXX 503	AL	85.3	57.3	118+	37	1.6	3.2	4.0	1.0	13	3
VA21W-39	A	85.1	57.3	115-	40-	1.1	0.7	3.2	6.0	35	2
DH19SRW09-073	AL	84.7	56.3	116	41	1.4	3.7	2.2	2.5	10	3
AGS 3026	A	84.7	56.4	120+	37	0.8	4.7	1.2	6.5+	33+	1
VA19FHB-36	A	84.6	59.0+	115-	41	0.7	1.4	2.3	4.0	18	2
19VDH-FHB-MAS01-29	A	84.6	54.9	117	32-	0.5	0.7	1.0	5.0	33+	2
MAS #67	AL	84.4	55.9-	113-	36	0.9	5.2	4.8	1.0	5	3
26R45	AL	84.4	56.2	117	39+	1.6	3.2	3.7	2.5	5	3
GA141045-9-3-2-21LE7	A	84.3	58.6+	118+	40+	0.8	1.4	0.8	5.0	18	2
GANC12915-167-21E3	TA	84.0	57.6	115	37	0.9	0.7	0.6	6.5+	28	1
VA22FHB-90	AL	83.9	58.4	120+	40+	1.7	2.4	1.0	3.0	5	2
NC11546-14	A	83.8	59.9+	114-	39+	2.2+	0.7	1.4	2.5	5	3
HILLIARD	A	83.8	58.1	114-	39+	0.5	1.9	1.6	3.5	8	3
VA19W-29	A	83.8	57.2	115	40+	0.9	0.9	4.8	4.5	25	2
MERL	TA	83.3	58.4	113-	37	0.7	0.9	4.2	6.5	13	3
EPIX 1365	A	82.8	56.1	116	37	0.6	1.4	2.2	4.5	18	5+
19VDH-FHB-MAS02-06	A	82.5	58.4	119+	35-	0.5	1.2	2.4	5.0	15	2
MAS #133	A	82.2-	55.0-	118+	38	0.8	2.7	5.3+	5.0	35+	4
CP8024	AL	82.0-	58.7+	119+	36	0.9	5.7	3.6	4.5	13	2
18VTK12-111	TA	81.9-	58.0	120+	35-	0.5	0.9	0.7-	5.0	18	1
18VTK5-95	AL	81.1-	57.6	116	35-	1.0	0.9	1.0	5.5	13	2
VA19HRW-17	A	80.7-	57.0	122+	38	0.5	0.9	1.0	6.0	48+	2
mean		89.7	57.4	116	37	1.1	2.3	2.8	4.1	15	2
LSD		7.1	1.3	1	2	0.9	1.7	1.9	2.0	15	2
CV		13.5	3.7	1	4	88.1	53.0	61.1	24.1	51	47

Continued...

Line	Awns	Grain	Test	Heading	Height,	Lodging,	Powdery	Leaf	FHB,	FDK,	BYDV
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	A-TA-AL	Yield bu/ac (6)	Weight lb/bu (6)	Date, Julian (2)	in (2)	0-9 (2)	Mildew, 0-9 (2)	Rust, 0-9 (3)	0-9 (1)	% (1)	0-9 (2)
KWS525	A	80.3-	56.8	119+	35-	0.5	1.2	4.7	4.0	15	4
DH19SRW08-001	TA	80.0-	56.0	118+	35-	1.3	0.7	2.2	4.5	13	3
VA19MAS7-519-1WS-R110	A	78.8-	57.9	118+	37	0.5	0.9	2.7	5.5	13	3
VA20HRW-50	A	78.5-	57.5	119+	42+	0.8	1.2	2.8	4.5	20	1
17VTK18-13	A	76.0-	55.7-	118+	38	0.6	1.7	1.0	6.0	20	2
MASSEY	TA	70.4-	57.5	114-	41+	2.4+	0.9	8.3+	1.5-	8	3
15VTK-1-101-BS112	TA	65.4-	54.2-	120+	35-	0.5	1.2	3.6	3.5	23	3
mean		89.7	57.4	116	37	1.1	2.3	2.8	4.1	15	2
LSD		7.1	1.3	1	2	0.9	1.7	1.9	2.0	15	2
CV		13.5	3.7	1	4	88.1	53.0	61.1	24.1	51	47

Sites included Blacksburg, Blackstone, Orange, Painter, Shenandoah Valley, and Warsaw VA. Holland was not included due to excessive deer damage of awnless varieties.

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. Performance of entries in the Virginia Tech Wheat Test, 12 site-years, 2023 and 2024.

Line	Awns, A-TA-AL	Grain Yield, bu/ac (12)	Test Weight, lb/bu (12)	Heading Date, Julian (4)	Height, in (4)	Lodging, 0-9 (4)	Powdery Mildew, 0-9 (5)	FHB, 0-9 (2)	FDK, % (2)	Leaf Rust, 0-9 (5)	BYDV, 0-9 (3)	DON, ppm (1)
VA20FHB-18	A	109.6+	58.1+	115-	39+	0.6	1.7	3.5	30	0.7-	1.7	9
18VTK10-23	A	108.1+	59.5+	113-	38	0.6	3.6	3.5	25	0.8-	0.5-	7
USG 3673	AL	107.1+	57.8	116	37	1.2	4.8+	3.3	17	0.1-	1.5	4
USG 3463	A	104.8	56.3-	117	35-	1.1	2.1	3.8	36	3.4+	2.5	5
USG 3661	AL	104.0	57.4+	118	34-	2.0+	2.6	5.0	37	0.4-	2.9	10
VA20W-142	TA	103.8	57.6	116	39+	1.5	2.1	4.3	30	0.7-	1.5	6
USG 3451	AL	103.8	58.0	114-	37	2.3+	2.8	3.0	10-	1.6-	0.9	3
MAS #86	A	103.6	56.3-	117	39+	0.8	4.6+	3.5	30	4.4	1.7	3
Dyna-Gro 9393	A	103.5	57.0	118+	35-	0.5	3.8+	4.5	29	3.2	2.7	7
Phoenix 29	A	103.5	58.2+	118+	36	1.0	1.8	3.5	51+	2.1	1.1	10
USG 3352	A	103.1	56.8	119+	38	0.8	4.1+	4.8	37	3.8	2.3	15+
15VTK-1-101	A	102.9	57.7	117	33-	1.2	1.1-	4.8	39	0.0-	1.1	9
17VDH-SRW02-125	A	102.8	58.4+	119+	37	1.0	0.5-	3.8	26	0.5-	1.3	11
Revere 2347	A	102.7	57.1	118+	38	0.5	2.5	3.8	15	5.2+	2.1	5
VA20W-135	A	102.6	57.7	117	40+	0.9	2.6	4.8	42	0.5-	1.5	13+
MAS #155	A	102.5	56.1	118+	38+	1.2	2.2	4.0	44	7.5+	1.9	8
18VTK10-110	A	102.4	59.3+	118+	36	0.5	1.6-	3.5	27	0.8	0.7-	5
AgriMAXX 535	A	102.4	58.0+	118+	36	0.7	2.2	4.5	29	3.4	2.1	7
Dyna-Gro 9422	A	102.3	56.3	117	37	1.1	2.5	4.5	41	6.7	3.1	13+
Mean		99.3	57.2	117	37	1	2.7	4.1	30	3.1	2.1	7
LSD		5.5	0.8	1	1	0.8	1.0	1.5	17	1.5	1.4	5
CV		13.6	3.2	1	4	107.2	43.6	26.5	41	52.9	53.7	34

Continued...

Line	Awns, A-TA-AL	Grain Yield, bu/ac (12)	Test Weight, lb/bu (12)	Heading Date, Julian (4)	Height, in (4)	Lodging, 0-9 (4)	Powdery Mildew, 0-9 (5)	FHB, 0-9 (2)	FDK, % (2)	Leaf Rust, 0-9 (5)	BYDV, 0-9 (3)	DON, ppm (1)
Dyna-Gro 9120	A	102.2	58.3+	116	36	0.7	3.5	4.0	11	3.6	1.5	5
17VDH-SRW01-077	A	102.0	58.3	114-	38	0.6	0.5	5.5	14	0.2-	2.9	6
GP 543	TA	102.0	56.0-	114-	38	1.9+	0.8	4.0	29	2.7	2.3	4
Revere 2277	A	101.9	57.1	120+	36-	0.5	0.9	5.0	34	4.3	1.7	7
18VTK6-3	A	101.6	58.1	118+	37	0.6	1.7	3.8	40	0.6-	0.5-	7
Dyna-Gro Shirley	TA	101.4	56.5	117	35-	0.7	0.6	6.3+	51+	0.6-	1.7	14+
VA20FHB-20	A	101.3	59.1+	115-	38	0.5	1.8	3.5	21	3.2	2.5	6
Dyna-Gro 9290	A	101.2	57.0	115	38	0.6	3.7	3.3	27	2.9	4.1+	7
USG 3363	A	101.1	57.0	118+	38	0.6	2.6	3.3	19	5.1+	1.9	5
Liberty 5658	A	101.0	58.1	114-	40+	1.1	3.5	3.8	24	1.8	0.9	6
Dyna-Gro 9231	A	100.5	57.2	117	39+	0.8	3.2	4.0	17	4.4	2.7	3
MBX 127	A	100.2	56.2-	118+	37	0.5	3.6	4.3	20	5.9+	1.7	4
MAS #139	A	100.2	55.8	118+	36-	0.5	3.7	4.3	51+	6.0+	2.3	10
AGS 4043	A	100.2	58.9+	116	34-	0.9	0.6	4.3	20	0.6-	1.1	4
MAS #190	A	100.1	57.0	120+	35-	0.6	3.1	4.8	32	4.7+	1.9	9
AgriMAXX 525	A	100.1	56.7	119+	35-	0.7	3.2	4.5	26	5.5+	4.5+	4
Dyna-Gro 9172	A	99.9	56.3-	118+	37	0.9	4.1+	3.3	25	6.5+	2.5	4
16VDH-SRW03-023	TA	99.3	56.9	115-	38	0.5	3.2	4.8	26	0.3-	1.5	7
AgriMAXX 516	A	99.3	56.2-	118+	37	0.7	3.7	4.8	34	6.0+	2.5	6
EPIX 4372	A	99.1	56.7	118+	37	0.7	3.9	3.3	24	6.2+	2.7	4
VA19FHB-36	A	99.1	58.2+	116	40	0.9	1.8	3.5	24	1.7	1.9	8
EPIX 1375	AL	99.0	57.6	113-	37	1.8+	0.4	4.3	23	0.4-	2.9	9
Mean		99.3	57.2	117	37	1.0	2.7	4.1	30	3.1	2.1	7
LSD		5.5	0.8	1	1	0.8	1.0	1.5	17	1.5	1.4	5
CV		13.6	3.2	1	4	107.2	43.6	26.5	41	52.9	53.7	34
Continued...												

Line	Awns, A-TA-AL	Grain Yield, bu/ac (12)	Test Weight, lb/bu (12)	Heading Date, Julian (4)	Height, in (4)	Lodging, 0-9 (4)	Powdery Mildew, 0-9 (5)	FHB, 0-9 (2)	FDK, % (2)	Leaf Rust, 0-9 (5)	BYDV, 0-9 (3)	DON, ppm (1)
17VTK4-29	TA	98.7	57.5	115-	35	1.8	0.5	5.3	36	1.1	1.9	8
MAS #178	AL	98.7	56.5	118+	39	1.0	3.5	4.0	36	2.8	1.3	7
EPIX 1365	A	98.6	55.7-	116	36	0.6	2.1	5.5	39	2.0	4.9+	6
MBX 230	A	98.4	56.9	117	38	0.6	2.1	4.2	22	5.8+	4.1+	4
VA18HRW-58	A	98.1	58.4	120+	40+	1.9+	1.8	4.5	46	1.6	3.1	7
18VTK12-111	TA	98.0	58.1+	120+	35	0.9	0.8-	4.5	24	0.6-	0.7-	7
VA21W-112	A	98.0	56.1-	116	36	0.9	2.3	5.0	49+	0.5-	1.7	19+
HILLIARD	A	98.0	57.3	115-	39+	0.5	2.1	3.5	30	1.1-	2.3	10
AgriMAXX 513	A	98.0	56.9	117	37	1.5	2.4	4.0	27	4.4	1.9	4
Revere 2169	A	98.0	56.2	118+	37	0.6	3.2	3.5	15	6.0+	1.3	4
USG 3472	A	98.0	56.2	118+	36-	0.6	4.3+	4.0	26	7.0+	1.9	3
18VDH-FHB-MAS07-173-03	A	97.9	57.1	117	38	2.5+	0.7	5.0	31	0.4-	2.3	10
CP8045	A	97.7	56.1	118+	37	0.6	3.6	4.0	27	5.8+	2.3	3
VA19W-29	A	97.3	57.2	116	39+	0.9	2.3	5.3	49+	4.7+	1.7	14
DH17SRW136-066	TA	97.2	56.3-	116	36-	1.4	0.7	4.0	41	4.4	1.9	6
Dyna-Gro 9151	A	96.7	57.7	118+	38	1.2	3.2	4.0	35	6.1+	3.1	8
Featherstone 3000	AL	96.6	58.0	118+	37	0.7	4.6+	4.1	43	0.8-	3.4	13+
AgriMAXX 505	A	95.5	58.0	118+	37	1.3	3.2	3.8	30	5.0+	3.7	6
18VTK5-95	AL	95.0	58.1+	117	36-	0.8	0.7	4.5	29	0.6-	1.3	6
MAS #133	A	94.8	54.7-	118+	38	0.9	3.9	4.3	55+	5.1+	3.1	12+
MAS #67	AL	94.5	55.4	114-	36-	0.7	5.8+	3.0	14	3.7	2.7	2-
MAS #316	A	94.1	56.4	119+	38	1.2	3.8	3.8	30	4.8	4.1+	5
Mean		99.3	57.2	117	37	1	2.7	4.1	30	3.1	2.1	7
LSD		5.5	0.8	1	1	0.8	1.0	1.5	17	1.5	1.4	5
CV		13.6	3.2	1	4	107.2	43.6	26.5	41	52.9	53.7	34
Continued...												

Line	Awns, A-TA-AL	Grain Yield, bu/ac (12)	Test Weight, lb/bu (12)	Heading Date, Julian (4)	Height, in (4)	Lodging, 0-9 (4)	Powdery Mildew, 0-9 (5)	FHB, 0-9 (2)	FDK, % (2)	Leaf Rust, 0-9 (5)	BYDV, 0-9 (3)	DON, ppm (1)
AgriMAXX 503	AL	93.7-	57.0	118+	37	1.1	4.6+	1.5	20	4.1	2.9	2-
VA19MAS7-519-1WS-R110	A	92.9-	57.5	119+	37	0.5	2.0	4.8	26	2.0	3.1	21+
AGS 3026	A	92.7-	57.2	120+	36-	0.9	6.2+	5.	57+	0.8-	0.7-	29+
MAS #189	A	90.7-	57.7	111-	39+	2.0+	3.0	2.5-	16	4.6+	1.3	2-
MAS #2	AL	90.0-	57.9	119+	44+	4.1+	4.6+	3.8	22	4.3	1.3	5
MAS #106	TA	86.5-	57.0	110-	36-	2.2+	6.7+	3.5	15	3.4	1.7	3
MASSEY	TA	77.0-	56.9	115-	41+	2.8+	1.7-	3.0	34	8.1+	2.7	10
Mean		99.3	57.2	117	37	1.0	2.7	4.1	30	3.1	2.1	7
LSD		5.5	0.8	1	1	0.8	1.0	1.5	17	1.5	1.4	5
CV		13.6	3.2	1	4	107.2	43.6	26.5	41	52.9	53.7	34

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 11. Performance of entries in the Virginia Tech Wheat Test, 17 site-years, 2022, 2023, and 2024.

Line	Awns, A-TA-AL	Grain Yield, bu/ac (17)	Test Weight, lb/bu (17)	Heading Date, Julian (5)	Height, in (5)	Lodging, 0-9 (4)	Powdery Mildew, 0-9 (5)	FHB, 0-9 (3)	FDK, % (3)	Leaf Rust, 0-9 (5)	BYDV, 0-9 (3)	DON, ppm (2)
USG 3352	A	100.6+	56.9	121+	37	0.8	4.1+	4.2	40	3.8	2.2	13+
USG 3673	AL	100.5+	57.7	118	36	1.2	4.8+	3.2	17	0.1-	1.4	5
USG 3463	A	100.3+	56.3	118	35-	1.1	2.1	3.3	45	3.4	2.4	5
USG 3451	AL	99.9+	58.0+	116-	37	2.3+	2.8	4.0	29	1.5-	0.8	7
USG 3661	AL	99.8+	57.6	119+	34-	2.0+	2.5	4.8	45	0.3-	2.8	12+
Dyna-Gro 9393	A	99.6+	57.0	120+	35-	0.5	3.8	4.2	31	3.3	2.6	7
VA20W-142	TA	99.0	57.5	118	38+	1.5	2.1	4.0	29	0.7-	1.4	6
MAS #86	A	98.6	55.3	118	39+	0.8	4.5+	3.0	29	4.3	1.6	3
MAS #155	A	98.6	56.2	119+	38+	1.2	2.2	4.0	43	7.4+	1.8	8
VA20FHB-20	A	98.3	59.0+	117-	38+	0.5	1.7-	3.5	29	3.2	2.4	7
15VTK-1-101	A	98.3	57.4	118	33-	1.2	1.1-	4.5	31	0.0-	1.0	10
17VDH-SRW01-077	A	97.9	58.2+	115-	38+	0.6	0.4-	5.2+	25	0.2-	2.8	7
Revere 2277	A	97.7	57.2	122+	36-	0.5	0.9-	4.3	34	4.4	1.6	9
AgriMAXX 535	A	97.5	58.0+	119+	35-	0.7	2.2	4.2	30	3.5	2.0	8
17VTK4-29	TA	97.3	56.8	116-	35-	1.7	0.4-	4.8	33	1.1-	1.8	9
USG 3363	A	97.2	57.1	119+	38+	0.6	2.5	3.1	20	5.1+	1.8	5
Dyna-Gro 9120	A	96.9	58.3+	117-	36-	0.7	3.4	4.7	18	3.6	1.4	6
Dyna-Gro Shirley	TA	96.7	56.2	118	35-	0.7	0.5-	6.0+	51+	0.6-	1.6	13+
MBX 127	A	96.4	55.9	119+	37	0.5-	3.5	3.8	18	5.9+	1.6	4
Mean		94.8	57	118	37	1.1	2.9	3.9	30	3.6	2.2	7
LSD		4.5	0.9	1	1	0.8	1.0	1.1	16	1.5	1.5	5
CV		13.9	4.5	1	4	103.7	42.1	25.3	45	47.3	54.7	41

Continued...

Line	Awns, A-TA-AL	Grain Yield, bu/ac (17)	Test Weight, lb/bu (17)	Heading Date, Julian (5)	Height, in (5)	Lodging, 0-9 (4)	Powdery Mildew, 0-9 (5)	FHB, 0-9 (3)	FDK, % (3)	Leaf Rust, 0-9 (5)	BYDV, 0-9 (3)	DON, ppm (2)
Liberty 5658	A	95.9	58.0+	115-	39+	1.1	3.4	3.8	26	1.8	0.8	8
VA19FHB-36	A	95.9	58.2+	117	40+	0.9	1.8	3.5	26	1.7	1.8	7
Dyna-Gro 9172	A	95.7	56.2	119+	36-	0.9	4.1+	3.3	21	6.5+	2.4	5
MAS #139	A	95.6	55.7-	119+	36-	0.5	3.6	4.2	55+	6.0+	2.2	8
AgriMAXX 525	A	95.5	56.8	120+	35-	0.7	3.2	3.8	29	5.5	4.4+	4
AgriMAXX 516	A	95.3	56.1	119+	36-	0.7	3.6	4.2	29	6.0+	2.4	6
16VDH-SRW03-023	TA	95.0	55.6-	117	37	0.5	3.2	4.3	28	0.2-	1.4	6
USG 3472	A	95.0	56.3	120+	36-	0.6	4.2+	3.7	23	7.0+	1.8	4
CP8045	A	94.9	56.1-	119+	36-	0.6	3.5	4.0	27	5.8	2.2	4
EPIX 1375	AL	94.9	57.8	114-	36-	1.8	0.3-	4.2	24	0.4-	2.8	8
DH17SRW136-066	TA	94.8	56.3-	118	36-	1.4	0.6-	3.7	46	4.5	1.8	6
Revere 2169	A	94.7	56.1-	119+	37	0.6	3.2	3.3	14-	6.0+	1.2	5
AgriMAXX 513	A	94.4	57.1	118	37	1.5	2.3	3.5	30	4.4	1.8	3
VA19W-29	A	93.9	57.1	117	39+	0.9	2.2	5.2+	43	4.7	1.6	12+
Dyna-Gro 9151	A	93.9	57.7	119+	37	1.2	3.2	3.8	31	6.1+	3.0	7
Featherstone 3000	AL	93.6	57.9	119+	36-	0.7	4.6+	4.1	37	0.7-	3.4	11
HILLIARD	A	93.6	57.1	116-	38+	0.5	2.1	3.7	32	1.1-	2.2	10
VA18HRW-58	A	93.6	58.5+	122+	39+	1.9	1.7	4.3	49	1.5-	3.0	7
AgriMAXX 503	AL	93.5	57.2	120+	37	1.1	4.5+	2.0	17	4.2	2.8	3
AgriMAXX 505	A	92.3	58.0+	119+	36	1.2	3.2	3.7	38	5.0+	3.6+	7
MAS #133	A	90.6	54.6-	119+	37	0.9	3.9	4.0	49+	5.1+	3.0	11
MAS #316	A	89.7-	56.5	120+	38	1.2	3.7	3.3	23	4.8	4.0+	6
MAS #67	AL	89.7-	55.3	116	35-	0.7	5.7+	2.7	19	3.7	2.6	2
VA19MAS7-519-1WS-R110	A	89.5-	57.7	120+	37	0.5	2.0	4.2	26	2.0-	3.0	17+
Mean		94.8	57	118	37	1.1	2.9	3.9	30	3.6	2.2	7
LSD		4.5	0.9	1	1	0.8	1.0	1.1	16	1.5	1.5	5
CV		13.9	4.5	1	4	103.7	42.1	25.3	45	47.3	54.7	41
Continued...												

Line	Awns, A-TA-AL	Grain Yield, bu/ac (17)	Test Weight, lb/bu (17)	Heading Date, Julian (5)	Height, in (5)	Lodging, 0-9 (4)	Powdery Mildew, 0-9 (5)	FHB, 0-9 (3)	FDK, % (3)	Leaf Rust, 0-9 (5)	BYDV, 0-9 (3)	DON, ppm (2)
MAS #189	A	87.2-	57.7	112-	38+	2.0+	3.0	2.3	17	4.6	1.2	2-
MAS #2	AL	86.0	58.0+	120+	43+	4.1+	4.5	3.5	28	4.3	1.2	5
MAS #106	TA	81.5-	55.8-	112-	36	2.2+	6.6+	3.3	15	3.5	1.6	3
MASSEY	TA	76.8-	57.0	116-	40+	2.8+	1.6-	3.3	33	8.1+	2.6	9
Mean		94.8	57.0	118	37	1.1	2.9	3.9	30	3.6	2.2	7
LSD		4.5	0.9	1	1	0.8	1.0	1.1	16	1.5	1.5	5
CV		13.9	4.5	1	4	103.7	42.1	25.3	45	47.3	54.7	41

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. Performance of entries in the Virginia Tech Wheat Test, Kentland Farm, Blacksburg, VA 2024.

Line	Awns, A-TA-AL	Grain Yield, bu/ac	Test Weight, lb/bu	Heading Date, Julian	Height, in	Lodging, 0-9
USG 3463	A	128.0	56.0-	119	35	2.3
16VDH-SRW03-023	TA	127.8	56.3	118-	40	0.0
DH20SRW02-073	TA	127.0	56.9	120+	38	2.7+
19VTK7-66	A	125.0	56.9	120	42+	2.0
Dyna-Gro 9570	A	124.8	55.3-	120	37	3.0+
AgriMAXX 545	A	124.6	54.9	121+	37	0.0
18VTK10-23	A	123.3	58.6+	115-	39	1.0
VA20W-142	TA	122.5	57.3+	120	39	1.0
MAS #226	A	122.4	57.1	118	36	0.0
Southern Harvest 9520	A	122.2	56.8	122+	37	0.0
MAS #155	A	122.2	55.9-	119	40	0.0
Southern Harvest 5123	AL	121.7	56.8	120	39	1.0
USG 3673	AL	121.7	56.8	119-	36	1.0
GP 543	TA	121.6	56.0-	116-	40	3.5+
InSpire FS 891	A	121.6	57.2	120+	37	1.0
EPIX 4480	A	120.4	56.6	121+	36	0.0
VA20FHB-18	A	119.7	57.4+	118-	40	0.0
Revere 2169	A	119.6	56.0	120	39	0.0
18VTK18-112	TA	119.5	57.4+	118	41	1.0
Dyna-Gro 9551	A	119.2	54.9-	115-	36	0.0
InSpire FS 743	A	119.1	57.2	120	39	0.0
USG 3661	TA	119.0	56.4	120+	35	4.0+
EPIX 3489	A	118.9	56.8	120	34-	1.0
26R33	A	118.9	57.1	120	38	0.0
MAS #139	A	118.5	55.1-	120+	37	0.0
USG 3354	TA	118.1	57.9+	117	38	4.0+
Mean		109.8	56.6	119	37	1.0
LSD		18.9	0.6	1	3	2.0
CV		12.3	0.7	0	4	119.0

Continued...

Line	Awns, A-TA-AL	Grain Yield, bu/ac	Test Weight, lb/bu	Heading Date, Julian	Height, in	Lodging, 0-9
17VTK4-29	TA	118.1	56.0-	118-	36	2.0
InSpire FS 745	A	118.0	56.0-	119	38.0	0.0
AgriMAXX EXP 2404	A	117.7	56.5	121+	34.0	0.0
Southern Harvest 7222	A	117.3	57.9	120+	38.0	0.0
KWS543	A	117.0	56.0-	121+	37.5	0.0
Dyna-Gro 9593	A	116.9	56.1	119	35.0	0.0
InSpire FS 747	TA	116.9	55.6	119	37.5	0.0
DH19SRW07-309	A	116.7	57.2+	120	38.0	0.0
MBX 230	A	116.7	56.9	120	39.0	1.0
VA19MAS7-519-1WS-R110	A	116.3	58.8+	120	39.0	0.0
Dyna-Gro 9231	A	116.0	57.2	119	40.0	1.0
Phoenix 29	A	116.0	57.8+	121+	37.5	0.0
MBX 127	A	115.6	56.0	120	36.5	0.0
Dyna-Gro 9533	AL	115.5	54.9-	120	34.5	1.0
KWS529	TA	115.4	54.9-	119	37.5	2.0
18VTK10-110	A	115.3	59.0+	120	35.5	0.0
Liberty 5658	A	114.9	57.5+	117	42.0	0.0
Dyna-Gro 9172	A	114.6	55.9-	120	38.5	1.0
USG 3352	A	114.1	56.1-	121	37.5	1.0
VA22W-21	A	114.0	55.2-	122+	34.0	0.0
GA151313-LDH-192 -20E48	A	113.8	56.9	121	33.0	0.0
MAS #178	AL	113.8	55.6-	121	40.5	1.0
USG 3472	A	113.5	55.8-	120	36.5	0.0
DH17SRW136-066	TA	113.4	56.3	119	36.5	1.0
DH19SRW07-321	A	113.2	57.5	120	37.0	0.0
MAS #227	A	113.2	55.2-	120	36.0	2.0
NC18-16900	TA	113.2	56.7	120	40.5	1.0
19VDH-FHB-MAS05-27	TA	112.6	55.1-	121	38.0	4.0+
VA18HRW-58	A	112.5	58.3	122+	40.0	3.0
AgriMAXX 535	A	112.2	57.8+	121	34.5	0.0
Mean		109.8	56.6	119	37.3	1.0
LSD		18.9	0.6	1	3.2	2.0
CV		12.3	0.7	0	4.4	119.0

Continued...

Line	Awns, A-TA-AL	Grain Yield, bu/ac	Test Weight, lb/bu	Heading Date, Julian	Height, in	Lodging, 0-9
19VTK5-167	A	112.0	55.8-	120	33.5	2.0
USG 3363	A	111.8	56.9-	119	38.5	0.0
15VTK-1-101	A	111.7	56.9	121	32.5	0
DH19SRW09-073	TA	111.6	56.5	118	41.0	1
EPIX 3498	A	111.5	56.4	121	36.0	1
Revere 2277	A	111.4	56.4	121	35.5	0
MAS #86	A	111.3	55.2	119	41.0	1
Dyna-Gro 9120	A	111.2	58.1	119	35.0	0
DH19SRW08-020	A	110.9	57.8	117	35.5	0
USG 3884	A	110.7	56.1	120	33.5	0
Featherstone 3000	AL	110.7	57.5	119	37.0	0
VA22FHB-90	TA	110.7	57.6	121	40.0	2
Dyna-Gro 9422	A	110.5	55.7	120	38.0	1
AgriMAXX 503	AL	110.4	55.9	120	38.5	2
VA22W-201	A	110.4	57.8	118	34.5	2
VT Pitman	A	110.3	57.5	118	34.5	0
HILLIARD	A	110.2	56.6	118	39.5	0
VA20W-135	A	109.9	57.0	119	41.0	1
Dyna-Gro 9553	A	109.9	56.3	121	35.5	0
MAS #133	A	109.8	54.4	120	38.0	0
VA20FHB-20	A	109.7	58.3	119	37.5	0
USG 3574	AL	109.6	54.8	120	34.0	2
GA131246LDH-86-21E2	A	109.5	56.7	121	37.5	0
MAS #189	A	109.1	57.8	116	40.0	4+
CP8045	A	108.9	56.0	120	38.5	1
MERL	TA	108.9	57.9	118	37.5	0
DH19SRW08-001	TA	108.9	56.6	121	35.5	1
18VDH-FHB-MAS07-173-03	A	108.7	56.9	118	40.5	4
VA21W-112	A	108.4	55.5	119	35.5	0
AgriMAXX 516	A	107.9	55.7	120	36.8	0
Mean		109.8	56.6	119	37.3	1
LSD		18.9	0.6	1	3.2	2
CV		12.3	0.7	0	4.4	119

Continued...

Line	Awns, A-TA-AL	Grain Yield, bu/ac	Test Weight, lb/bu	Heading Date, Julian	Height, in	Lodging, 0-9
VA21W-39	A	107.8	56.3	119	40.0	1
Dyna-Gro 9151	A	107.6	57.3	120	39.0	1
MAS #190	A	107.6	56.9	121	34.0	0
17VDH-SRW01-077	A	107.5	57.9	116	40.5	0
KWS527	A	107.5	56.2	120	38.5	1
MAS #228	A	107.3	56.5	121	37.0	1
Southern Harvest 4222	A	107.0	56.7	120	38.0	1
VA19HRW-17	A	106.9	57.3	123	36.5	0
AgriMAXX 525	A	106.9	56.1	121	33.5	0
Revere 2347	A	106.9	57.1	119	38.5	0
26R45	AL	106.8	55.3	119	40.5	2
Dyna-Gro Shirley	TA	106.7	55.9	119	35.0	0
17VDH-SRW02-125	A	106.7	57.7	121	37.5	0
Dyna-Gro 9393	A	106.5	56.4	121	35.5	0
VA22W-196	TA	106.2	56.0	116	35.0	1
MAS #316	A,AL	106.1	56.2	121	40.0	1
GA15490ID-19-5-21LE2	A	105.9	57.3	121	37.5	0
19VDH-FHB-MAS01-29	A	105.8	55.1	120	31.5	0
USG 3451	AL	105.7	57.7	118	37.5	4+
Dyna-Gro 9290	A	105.5	56.7	119	37.5	0
AgriMAXX 513	A	105.4	56.3	120	37.5	0
EPIX 1365	A	105.1	55.0	119	36.5	0
GA141045-9-3-2-21LE7	A	105.0	58.5	121	39.5	0
19VDH-FHB-MAS03-29	TA	104.9	56.2	119	36.5	0
18VTK12-111	TA	104.8	56.8	121	36.0	0
NC14757LDH-44	TA	104.8	56.9	118	36.0	2
MAS #67	AL	104.5	55.3	118	37.0	1
18VTK10-5	A	104.3	58.0	120	36.5	0
26R59	TA	104.1	55.8	119	33.5	0
EPIX 4372	A	104.0	56.1	120	36.0	0
Mean		109.8	56.6	119	37.3	1
LSD		18.9	0.6	1	3.2	2
CV		12.3	0.7	0	4.4	119

Continued...

Line	Awns, A-TA-AL	Grain Yield, bu/ac	Test Weight, lb/bu	Heading Date, Julian	Height, in	Lodging, 0-9
NC11546-14	A	104.0	58.5	118	39.5	3+
GANC12915-167-21E3	TA	103.9	57.2	119	37.0	1
GP 381	AL	103.8	55.4	118	35.0	0
AgriMAXX 544	TA	103.7	55.4	119	37.5	0
AGS 4043	A	103.7	57.5	120	34.5	0
19VDH-FHB-MAS02-06	A	103.7	56.6	121	35.0	0
15VDH-FHB-MAS25-15	A	103.4	57.1	118	36.5	0
InSpire FS 855	A	103.0	56.0	120	38.5	0
18VTK6-3	A	102.9	57.6	120	37.0	0
UMD-VTWVT24-2	TA	102.8	57.8	120	36.0	1
CP8024	AL	102.5	57.5	121	34.5	1
AgriMAXX 505	A	102.3	57.5	120	37.0	2
UMD-VTWVT24-3	A	101.7	57.0	119	36.3	1
NC16VT30-7-47	TA	101.7	58.0	117	36.0	2
18VTK15-27	TA	101.5	54.5	115	37.0	6+
Southern Harvest 7200	A	101.2	57.2	117	40.0	2
18VTK5-95	AL	99.3	57.1	119	33.5-	1
EPIX 1375	TA	99.0	57.8+	116	38.5	2
NC15305-43	A	99.0	57.2	119	37.0	0
MAS #2	TA	98.9	56.9	120+	46.5+	5+
VA19W-29	A	98.4	56.7	119	41.0+	1
MAS #225	A	98.3	55.5+	121+	35.0	0
Phoenix 96	A	98.2	57.4+	121+	40.5	0
KWS525	A	96.6	55.9-	121+	33.0	0
MAS #106	TA	96.0	56.3	113-	36.5	3+
VA20HRW-50	A	95.2	57.3+	121+	41.5+	0
17VTK18-13	A	94.7	55.4-	121+	37.5	0
KWS542	A	94.6	57.1	119	40.5	1
VA19FHB-36	A	94.1	57.4+	119	41.0+	0
NC20-21971	TA	92.6	58.0+	118-	39.8	3+
Mean		109.8	56.6	119	37.3	1.0
LSD		18.9	0.6	1	3.2	1.6
CV		12.3	0.7	0	4.4	119

Continued...

Line	Awns, A-TA-AL	Grain Yield, bu/ac	Test Weight, lb/bu	Heading Date, Julian	Height, in	Lodging, 0-9
AGS 3026	A	85.5-	57.2	123+	37.5	1
15VTK-1-101-BS112	TA	85.3-	54.5-	121+	34.5	0
MASSEY	TA	81.9-	57.2	118-	41.5+	3+
Mean		109.8	56.6	119	37.3	1.0
LSD		18.9	0.6	1	3.2	1.6
CV		12.3	0.7	0	4.4	119

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 13. Performance of entries in the Virginia Tech Wheat Test, Southern Piedmont AREC, Blackstone, VA, 2024.

Line	Awns, A-TA-AL	Grain Yield, bu/ac	Test Weight, lb/bu	Leaf Rust, 0-9	BYDV, 0-9
17VDH-SRW02-125	A	79.3	60.9+	0	2
VA20FHB-18	A	79.0	59.6	0	3
19VTK7-66	A	77.8	59.1	0	3
18VTK10-5	A	76.1	60.7+	0	1-
USG 3463	A	74.5	57.4	1	4
VA20FHB-20	A	73.9	60.8+	0	4
MAS #86	A	73.9	56.9-	0	2
26R33	A	73.8	58.4	1	5+
USG 3352	A	73.8	57.5	0	2
Southern Harvest 5123	AL	73.5	59.6+	0	3
GA15490ID-19-5-21LE2	A	73.3	58.9	1	2
Southern Harvest 9520	A	73.2	58.4	1	4
18VTK10-23	A	73.1	61.1+	0	1-
Dyna-Gro 9553	A	73.0	57.6	0	3
Dyna-Gro 9551	A	72.9	55.7-	5+	6+
AGS 4043	A	72.5	58.9	1	2
Revere 2277	A	72.0	58.8	1	2
InSpire FS 855	A	71.9	58.0	1	4
Dyna-Gro 9593	A	71.5	57.4	2	6+
VA18HRW-58	A	71.4	60.1+	0	2
VT Pitman	A	71.3	59.6+	0	2
Phoenix 29	A	70.9	59.2	0	2
18VTK10-110	A	70.8	61.1+	0	1-
Southern Harvest 7200	A	70.8	59.4	0	4
Dyna-Gro 9393	A	70.5	58.0	0	4
AgriMAXX 545	A	70.5	55.7-	3	4
Mean		64.6	58.4	1	4
LSD		15.9	1.2	2	2
CV		15.7	1.4	141	25

Continued...

Line	Awns, A-TA-AL	Grain Yield, bu/ac	Test Weight, lb/bu	Leaf Rust, 0-9	BYDV, 0-9
NC14757LDH-44	TA	70.4	59.2	0	1-
MAS #225	A	70.4	57.7	0	3
InSpire FS 745	A	70.3	56.2	0	3
Dyna-Gro 9120	A	70.1	59.6+	1	2
USG 3472	A	70.1	55.7-	1	4
Revere 2347	A	70.1	58.1	1	4
KWS542	A	69.6	58.3	1	4
KWS527	A	68.9	57.9	0	5
Dyna-Gro 9231	A	68.8	58.1	2+	5
MAS #227	A	68.7	56.9-	0	4
Southern Harvest 7222	A	68.5	60.1+	0	1-
AgriMAXX 535	A	68.4	59.2	1	4
Dyna-Gro 9570	A	68.4	56.3	1	6+
DH19SRW07-321	A	68.2	58.4	0	1
Phoenix 96	A	68.1	58.3	0	3
MBX 127	A	68.0	56.9	2	4
USG 3673	AL	68.0	59.9+	0	2
KWS543	A	68.0	57.8	2	3
NC11546-14	A	67.8	60.7+	0	4
EPIX 4372	A	67.8	57.1	1	5
Liberty 5658	A	67.8	59.1	1	2
GA151313-LDH-192 -20E48	A	67.7	59.8	0	2
DH19SRW09-073	AL	67.6	57.5	1	5
EPIX 1375	AL	67.2	59.5	0	5
USG 3451	AL	67.1	58.3	0	2
AgriMAXX 525	A	67.1	58.9	2	4
MAS #228	A	66.9	57.7	1	5
VA19FHB-36	A	66.5	60.3+	0	4
CP8045	A	66.3	55.7-	0	4
VA22W-21	A	66.3	57.7	0	5
Mean		64.6	58.4	1	4
LSD		15.9	1.2	2	2
CV		15.7	1.4	141	25

Continued...

Line	Awns, A-TA-AL	Grain Yield, bu/ac	Test Weight, lb/bu	Leaf Rust, 0-9	BYDV, 0-9
AgriMAXX 516	A	66.2	56.5-	2	6
MAS #139	A	66.3	56.9-	2	3
USG 3884	A	66.2	58.4	1	5
VA20W-142	AL	66.1	58.4	0	3
AgriMAXX EXP 2404	A	66.0	58.4	1	4
NC18-16900	AL	65.8	60.1	0	2
VA19HRW-17	A	65.8	59.2	0	4
EPIX 3489	A	65.8	58.9	0	4
Southern Harvest 4222	A	65.7	57.0-	1	5
USG 3363	A	65.7	55.8-	1	3
18VTK6-3	A	65.7	59.6	0	1
DH19SRW07-309	A	65.6	58.1	2	2
17VDH-SRW01-077	A	65.3	60.5+	0	5
18VDH-FHB-MAS07-173-03	A	65.0	58.8	0	5
MAS #316	A	65.0	57.1	2	6
MAS #133	A	65.0	55.0-	1	6
15VDH-FHB-MAS25-15	A	64.8	59.9	0	2
NC20-21971	TA	64.8	61.1+	0	1
USG 3354	AL	64.6	57.1	1	3
EPIX 4480	A	64.5	58.6	0	3
EPIX 3498	A	64.5	57.7	1	3
InSpire FS 891	A	64.3	58.9	1	4
Dyna-Gro 9422	A	64.3	56.6-	3	4
Dyna-Gro 9290	A	64.1	57.7	1	7
AgriMAXX 513	A	63.8	57.9	1	3
19VDH-FHB-MAS02-06	A	63.8	59.4	1	3
Dyna-Gro 9172	A	63.5	55.9	3	5
MBX 230	A	63.4	57.8	1	6
GA141045-9-3-2-21LE7	A	63.4	60.6+	0	3
VA22FHB-90	AL	63.2	59.5	0	3
Mean		64.6	58.4	1	4
LSD		15.9	1.2	2	2
CV		15.7	1.4	141	25

Continued...

Line	Awns, A-TA-AL	Grain Yield, bu/ac	Test Weight, lb/bu	Leaf Rust, 0-9	BYDV, 0-9
UMD-VTWVT24-2	AL	63.2	59.8	0	4
MAS #226	A	63.0	57.5	0	6
AGS 3026	A	62.5	60.4+	3	1
18VTK12-111	TA	62.2	60.6	0	2
AgriMAXX 544	AL	62.2	57.2	0	4
InSpire FS 743	A	61.9	58.3	0	3
GA131246LDH-86-21E2	A	61.8	57.4	0	4
EPIX 1365	A	61.6	56.8	0	7
MAS #2	AL	61.5	60.3	4+	2
VA20W-135	A	61.3	59.8	0	2
Revere 2169	A	61.2	56.5	2	2
19VTK5-167	A	61.1	57.3	0	3
Featherstone 3000	AL	61.0	59.7	0	5
VA21W-39	A	60.4	58.4	1	4
MERL	TA	60.4	59.7+	1	5
NC15305-43	A	60.3	60.8+	0	1
MAS #190	A	60.2	57.3	2	2
InSpire FS 747	AL	60.1	56.9-	0	5
GP 543	AL	59.9	58.3	0	4
VA19W-29	A	59.9	58.3	1	3
VA22W-196	AL	59.4	56.6	0	4
18VTK5-95	AL	59.4	61.2+	0	2
CP8024	AL	59.4	59.4	1	3
MAS #155	A	59.4	55.5	6+	3
VA22W-201	A	59.4	60.1+	1	3
Dyna-Gro 9151	A	59.2	59.1	1	5
Dyna-Gro Shirley	TA	59.0	57.8	0	4
VA20HRW-50	A	59.0	59.7+	0	2
15VTK-1-101	A	58.9	60.0+	0	3
17VTK4-29	AL	58.8	59.9+	0	3
Mean		64.6	58.4	1	4
LSD		15.9	1.2	2	2
CV		15.7	1.4	141	25

Continued...

Line	Awns, A-TA-AL	Grain Yield, bu/ac	Test Weight, lb/bu	Leaf Rust, 0-9	BYDV, 0-9
DH17SRW136-066	TA	58.5	58.4	1	4
UMD-VTWVT24-3	A,AL	58.4	60.7+	0	4
16VDH-SRW03-023	TA	58.2	59.4	0	3
HILLIARD	A	57.5	59.2	0	5
VA21W-112	A	57.1	57.8	1	4
DH20SRW02-073	AL	57.0	59.6+	0	2
NC16VT30-7-47	TA	56.8	60.6+	0	1
VA19MAS7-519-1WS-R110	A	56.6	61.4+	1	4
AgriMAXX 505	A	56.5	59.2	1	4
19VDH-FHB-MAS05-27	AL	56.5	57.4	2	2
DH19SRW08-020	A	56.0	59.0	0	2
19VDH-FHB-MAS01-29	A	55.5	56.9	1	3
USG 3661	AL	54.8	60.3+	1	5
USG 3574	AL	54.6	53.3-	4	1
MAS #189	M	53.4	59.3	2	2
MAS #178	AL	53.1	58.4	0	2
Dyna-Gro 9533	AL	53.1	53.8-	5+	2
26R45	AL	52.3	56.8-	1	5
GANC12915-167-21E3	AL	52.2	59.3	0	2
KWS525	A	52.1	57.3	2	6+
18VTK18-112	AL	51.8	58.5	1	3
17VTK18-13	A	51.6	57.1-	0	3
GP 381	AL	49.5	57.4	0	1-
15VTK-1-101-BS112	AL	NA	56.6-	0	5+
18VTK15-27	TA	NA	56.3-	0	3
19VDH-FHB-MAS03-29	AL	NA	58.8	0	2
26R59	AL	NA	58.8	0	5+
AgriMAXX 503	AL	NA	58.9	1	6+
DH19SRW08-001	AL	NA	57.1-	1	5
KWS529	AL	NA	56.5-	1	3
Mean		64.6	58.4	1	4
LSD		15.9	1.2	2	2
CV		15.7	1.4	141	25

Continued...

Line	Awns, A-TA-AL	Grain Yield, bu/ac	Test Weight, lb/bu	Leaf Rust, 0-9	BYDV, 0-9
MAS #106	TA	NA	58.5	0	3
MAS #67	AL	NA	55.9-	4+	6+
MASSEY	TA	NA	59.3	7+	6+
Mean		64.6	58.4	1	4
LSD		15.9	1.2	2	2
CV		15.7	1.4	141	25

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 14. Performance of entries in the Virginia Tech Wheat Test, Tidewater AREC, Holland, VA, 2024.

Line	Grain Yield, bu/ac	Test Weight, lb/bu
18VTK10-23	98.3+	60.5
KWS527	97.4+	58.0
Dyna-Gro 9172	96.6+	56.9
Southern Harvest 5123	95.9+	58.4
VA20FHB-18	95.1+	58.0
USG 3463	94.7+	56.5-
MAS #226	94.1+	57.4
Revere 2347	93.9+	56.4-
EPIX 4372	93.4+	56.8
Dyna-Gro 9570	93.1+	55.1-
Dyna-Gro 9593	92.7+	56.6
AgriMAXX EXP 2404	92.6+	57.9
18VTK10-5	92.4+	58.1
EPIX 3498	92.2+	57.3
17VDH-SRW02-125	91.8	59.7+
USG 3472	91.3	56.4-
VA22W-201	91.3	58.8+
NC15305-43	91.3	59.9+
CP8045	91.3	56.7
Dyna-Gro 9551	91.2	56.2-
Dyna-Gro 9120	91.0	59.1+
MAS #227	91.0	58.6
Dyna-Gro 9422	90.7	56.1-
26R33	90.4	58.7
MAS #190	90.4	58.5
MAS #228	90.3	57.2
NC11546-14	90.2	60.2+
Dyna-Gro 9553	90.1	58.0
AgriMAXX 525	89.3	57.6
MAS #86	89.3	57.1
Revere 2169	89.0	56.7
VA20FHB-20	88.5	59.2+
Dyna-Gro 9290	88.2	57.2
Southern Harvest 7222	88.0	59.6+
KWS542	87.9	58.7+
18VTK6-3	87.9	57.2
18VTK12-111	87.7	59.5+
InSpire FS 743	87.6	56.8
USG 3352	87.5	57.4
InSpire FS 745	87.5	56.7
Dyna-Gro 9231	87.4	56.7
USG 3673	87.2	59.4
Mean	79.6	57.6
LSD	12.3	1.1
CV	10.5	1.4

Continued...

Line	Grain Yield, bu/ac	Test Weight, lb/bu
VA19W-29	86.9	56.0
Phoenix 96	86.9	58.6
Revere 2277	86.1	58.5
AgriMAXX 516	85.9	56.7
19VDH-FHB-MAS05-27	85.9	56.3
18VTK10-110	85.8	59.9
MBX 230	85.8	57.0
KWS543	85.6	57.3
Liberty 5658	85.6	58.6
AgriMAXX 505	85.3	58.8
EPIX 3489	85.2	58.4
MBX 127	85.2	56.7
Dyna-Gro 9393	85.1	57.8
Southern Harvest 4222	84.9	56.9
AgriMAXX 545	84.9	55.6
NC14757LDH-44	84.5	59.0+
19VTK7-66	84.4	57.6
EPIX 4480	84.3	58.1
AgriMAXX 513	84.2	57.3
MAS #225	84.1	57.3
MAS #155	83.9	56.2
MAS #139	83.9	56.5
AgriMAXX 535	83.9	58.4
Southern Harvest 9520	82.8	58.7
17VDH-SRW01-077	82.6	59.6+
USG 3884	82.2	57.2
GA151313-LDH-192 -20E48	82.0	58.7
GA131246LDH-86-21E2	81.7	56.2-
15VTK-1-101	81.4	58.0
Phoenix 29	81.1	58.4
EPIX 1365	80.5	55.5-
19VTK5-167	80.4	55.8-
DH19SRW07-309	80.3	57.1
AGS 4043	80.3	58.9
InSpire FS 891	80.2	58.1
VA21W-112	80.1	56.0
KWS525	80.0	56.7
18VDH-FHB-MAS07-173-03	79.8	58.8+
18VTK18-112	79.8	57.5
15VDH-FHB-MAS25-15	79.7	58.1
VA18HRW-58	79.4	58.7
DH17SRW136-066	79.3	56.0-
Dyna-Gro 9151	79.3	58.7
VA20HRW-50	79.1	58.2
NC18-16900	78.6	58.1
AGS 3026	78.1	59.8+
VA20W-142	78.1	58.9+
Mean	79.6	57.6
LSD	12.3	1.1
CV	10.5	1.4

Continued...

Line	Grain Yield, bu/ac	Test Weight, lb/bu
VA19HRW-17	78.0	58.8+
VA22W-21	78.0	55.8-
USG 3363	77.9	57.1
DH19SRW07-321	77.7	57.1
InSpire FS 855	77.6	57.6
VA20W-135	77.2	58.5
VA19FHB-36	77.2	58.5
MAS #133	76.5	54.8-
Southern Harvest 7200	76.4	58.5
MAS #316	75.3	57.1
GA15490ID-19-5-21LE2	75.2	58.5
15VTK-1-101-BS112	74.8	55.9-
NC16VT30-7-47	74.5	60.4+
GANC12915-167-21E3	74.4	58.1
NC20-21971	74.1	60.7+
VA19MAS7-519-1WS-R110	74.1	60.0+
VT Pitman	73.8	58.5
GA141045-9-3-2-21LE7	73.5	59.6+
Featherstone 3000	73.4	59.1+
19VDH-FHB-MAS02-06	73.0	58.7
19VDH-FHB-MAS01-29	72.7	55.8-
DH20SRW02-073	72.5	56.5-
DH19SRW08-020	72.5	58.1
Dyna-Gro Shirley	72.2	56.9-
USG 3661	72.2	58.5
16VDH-SRW03-023	72.0	57.6
17VTK18-13	71.0	56.7-
18VTK15-27	70.1	54.8-
GP 543	69.7	56.2-
26R59	69.4	56.4-
HILLIARD	69.2	57.7
USG 3354	68.3	56.7
UMD-VTWVT24-3	68.2	59.0+
MAS #189	67.0-	59.1+
MAS #2	66.9-	59.1+
VA21W-39	66.9-	56.3-
USG 3574	66.1-	55.3-
DH19SRW08-001	65.6-	55.4
VA22W-196	65.6-	54.7-
UMD-VTWVT24-2	65.3-	58.2
MASSEY	64.9-	58.9
CP8024	64.0-	59.7+
MAS #67	63.4-	53.9-
MERL	63.3-	58.7+
VA22FHB-90	63.1-	58.5
17VTK4-29	62.7-	57.4
Dyna-Gro 9533	62.5-	54.2-
Mean	79.6	57.6
LSD	12.3	1.1
CV	10.5	1.4

Continued...

Line	Grain Yield, bu/ac	Test Weight, lb/bu
19VDH-FHB-MAS03-29	62.4-	57.7
18VTK5-95	61.1-	57.7
DH19SRW09-073	60.4-	56.0-
EPIX 1375	59.9-	58.1
USG 3451	59.5-	57.5
AgriMAXX 503	55.1-	58.0
26R45	54.7-	56.6
GP 381	54.1-	56.1-
KWS529	52.5-	55.2-
MAS #106	52.1-	57.6
AgriMAXX 544	NA	55.2-
InSpire FS 747	NA	54.9-
MAS #178	NA	56.7
Mean	79.6	57.6
LSD	12.3	1.1
CV	10.5	1.4

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

Excessive deer damage was observed at this location. This location was not included in the over location analysis.

Table 15. Performance of entries in the Virginia Tech Wheat Test, Northern Piedmont Center, Orange, VA, 2024.

Line	Grain Yield, bu/ac	Test Weight, lb/bu
NC18-16900	125.1+	61.2
18VTK10-23	124.4+	62.8+
18VTK18-112	124.1+	60.1
VA22W-196	122.6+	60.7
Revere 2169	122.0+	60.1
VA20W-142	121.5+	61.2
InSpire FS 891	120.4+	61.2
USG 3463	120.1+	59.9
Revere 2347	119.6+	60.2
AgriMAXX 544	119.6+	60.1
DH19SRW08-020	119.1	61.8
Dyna-Gro 9533	118.8	58.1-
16VDH-SRW03-023	118.2	60.7
USG 3673	117.8	61.5
USG 3574	117.2	58.6-
Dyna-Gro 9151	117.1	61.6
Liberty 5658	116.9	61.7
MAS #226	116.8	60.2
MAS #155	116.6	60.0
MBX 127	115.7	60.1
Revere 2277	115.6	60.6
NC15305-43	114.8	62.2+
EPIX 4372	114.3	60.1
USG 3451	114.3	60.3
19VTK5-167	114.0	60.2
Dyna-Gro 9551	113.8	57.9-
Dyna-Gro 9172	113.4	59.1
Dyna-Gro 9570	113.2	58.6-
USG 3363	112.8	59.8
InSpire FS 745	112.5	60.0
DH19SRW07-321	112.4	61.2
USG 3661	112.3	61.0
AgriMAXX 545	112.3	59.0
AgriMAXX 516	111.7	59.7-
Dyna-Gro 9290	111.7	60.6
MAS #228	111.2	59.8
InSpire FS 747	111.2	59.6
Dyna-Gro 9553	110.9	59.8
MAS #189	110.7	60.3
MAS #86	110.7	59.5
Southern Harvest 5123	110.5	61.3
AgriMAXX 505	110.4	61.7
MAS #190	109.9	60.7
Mean	103.5	60.3
LSD	16.2	1.5
CV	11.3	1.7

Continued...

Line	Grain Yield, bu/ac	Test Weight, lb/bu
VA20FHB-18	109.8	61.7
MAS #225	109.3	60.1
AGS 4043	109.0	60.9
Dyna-Gro 9393	108.6	59.5
VA20W-135	108.5	61.4
VT Pitman	108.4	61.7
AgriMAXX EXP 2404	107.9	58.9
18VTK6-3	107.9	61.8
MAS #139	107.7	59.3
Southern Harvest 4222	107.6	59.9
Southern Harvest 7200	107.6	60.9
AGS 3026	107.6	61.7
DH19SRW07-309	107.3	61.5
USG 3472	106.8	59.7
Southern Harvest 7222	106.5	62.1+
MAS #106	106.3	60.6
19VDH-FHB-MAS03-29	106.2	60.9
KWS542	106.1	61.4
VA22W-21	106.0	59.3
17VDH-SRW02-125	106.0	60.0
USG 3354	105.7	59.8
UMD-VTWVT24-2	105.3	61.1
GA15490ID-19-5-21LE2	105.1	60.8
Southern Harvest 9520	105.0	60.5
InSpire FS 743	105.0	60.2
GP 381	104.9	60.1
CP8045	104.9	59.5
NC16VT30-7-47	104.8	61.7
MAS #178	104.7	59.6
Featherstone 3000	104.1	61.4
18VTK10-5	104.0	62.0+
Phoenix 29	103.9	61.4
VA19W-29	103.3	60.7
USG 3352	103.0	60.7
AgriMAXX 513	102.7	58.7-
EPIX 4480	102.7	59.7
26R45	102.7	59.6
Dyna-Gro 9120	101.9	61.8+
CP8024	101.7	62.5+
18VTK5-95	101.7	62.3+
VA20FHB-20	101.6	62.0+
InSpire FS 855	101.6	59.3
Dyna-Gro 9422	101.5	59.3
18VDH-FHB-MAS07-173-03	100.8	59.6
18VTK10-110	100.6	61.1
MAS #227	100.6	59.9
26R33	100.6	60.6
Mean	103.5	60.3
LSD	16.2	1.5
CV	11.3	1.7

Continued...

Line	Grain Yield, bu/ac	Test Weight, lb/bu
KWS527	100.1	59.6
VA22W-201	99.9	61.3
VA21W-39	99.7	60.3
AgriMAXX 525	99.6	59.7
GA151313-LDH-192 -20E48	99.6	59.8
GP 543	99.4	57.5-
MAS #67	99.3	58.3-
Dyna-Gro Shirley	99.3	58.7-
USG 3884	99.0	59.8
DH19SRW09-073	98.8	60.9
MBX 230	98.7	59.0
Dyna-Gro 9593	98.4	59.5
18VTK15-27	98.3	57.6-
VA22FHB-90	98.2	60.9
KWS529	98.2	58.4-
EPIX 3489	97.9	61.2
EPIX 1375	97.7	62.3+
EPIX 3498	97.3	60.1
26R59	97.2	58.5
DH20SRW02-073	96.9	60.4
17VDH-SRW01-077	96.7	60.5
Phoenix 96	96.7	60.4
19VDH-FHB-MAS01-29	96.7	59.4
Dyna-Gro 9231	96.6	60.2
VA18HRW-58	96.6	62.2+
VA19FHB-36	96.5	61.9+
GA131246LDH-86-21E2	96.2	59.6
NC14757LDH-44	95.8	60.3+
17VTK4-29	95.7	59.4
GANC12915-167-21E3	95.7	60.9
MAS #2	95.0	61.3
NC20-21971	94.8	61.8+
19VTK7-66	94.4	59.2
AgriMAXX 535	94.2	61.4
KWS543	93.9	60.1
AgriMAXX 503	93.4	59.7
VA21W-112	92.6	60.5
NC11546-14	92.4	61.7
VA19MAS7-519-1WS-R110	92.1	62.0+
EPIX 1365	91.9	58.5-
15VDH-FHB-MAS25-15	91.9	61.9
DH17SRW136-066	91.9	58.5
15VTK-1-101	90.9	61.5+
DH19SRW08-001	90.3	60.1
VA19HRW-17	89.8	60.9
MAS #316	89.4	60.5
MAS #133	89.2	57.4-
Mean	103.5	60.3
LSD	16.2	1.5
CV	11.3	1.7

Continued...

Line	Grain Yield, bu/ac	Test Weight, lb/bu
18VTK12-111	88.8	61.3
19VDH-FHB-MAS05-27	88.4	58.1-
19VDH-FHB-MAS02-06	87.9	61.8+
UMD-VTWVT24-3	86.8	60.9
17VTK18-13	86.2-	59.9
KWS525	84.5-	58.1-
GA141045-9-3-2-21LE7	83.9-	60.3
VA20HRW-50	83.1-	60.5
MERL	81.1-	60.0
HILLIARD	80.2-	60.6
MASSEY	79.5-	59.4
15VTK-1-101-BS112	71.6-	59.6
Mean	103.5	60.3
LSD	16.2	1.5
CV	11.3	1.7

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

Table 16. Performance of entries in the Virginia Tech Wheat Test, Eastern Shore AREC, Painter, VA, 2024.

Line	Grain Yield, bu/ac	Test Weight, lb/bu	Leaf Rust, 0-9
VA21W-112	98.1+	56.3	0-
USG 3673	97.2+	55.3	0-
GP 543	95.5+	54.0	1
18VTK6-3	92.4+	54.6	0-
USG 3354	92.3+	53.6	2-
VT Pitman	92.0+	59.9	0
Southern Harvest 5123	91.8	54.5	0
AGS 4043	91.4	57.1	0
EPIX 1375	91.1	56.5	0
NC16VT30-7-47	91.1	57.4	0
VA20FHB-18	90.8	53.4	0
VA22W-201	90.6	56.5	0
19VDH-FHB-MAS01-29	90.0	52.2	0
Dyna-Gro Shirley	90.0	58.0	0
NC15305-43	89.6	57.2	0
GANC12915-167-21E3	89.3	58.2	0
Southern Harvest 7200	89.3	59.7	0
MAS #226	89.2	55.8	0
GA15490ID-19-5-21LE2	88.6	55.8	0
15VTK-1-101	88.3	54.4	0
HILLIARD	88.0	57.8	0
Dyna-Gro 9290	87.9	56.3	1
Dyna-Gro 9393	87.6	57.9	1
Dyna-Gro 9553	87.4	55.3	0
15VDH-FHB-MAS25-15	86.8	54.5	0
NC20-21971	86.7	56.4	0
VA20W-135	86.5	56.7	0
InSpire FS 747	86.2	55.2	0
VA20FHB-20	86.1	58.9	4
VA22W-21	85.7	54.9	0
InSpire FS 855	85.5	54.4	1
18VDH-FHB-MAS07-173-03	85.3	53.3	0
MAS #86	85.2	55.4	3
19VDH-FHB-MAS05-27	84.9	55.7	1
UMD-VTWVT24-2	84.8	51.1	0
AgriMAXX 544	84.7	56.7	0
EPIX 4480	84.7	54.3	3
19VDH-FHB-MAS03-29	84.2	56.2	0
UMD-VTWVT24-3	83.9	54.4	0
AGS 3026	83.6	51.4	0
GA131246LDH-86-21E2	83.4	53.9	0-
USG 3661	83.2	57.5	0-
USG 3451	82.7	57.1	0
Mean	76.7	55.1	2
LSD	15.1	6.8	1
CV	13.8	7.8	41

Continued...

Line	Grain Yield, bu/ac	Test Weight, lb/bu	Leaf Rust, 0-9
VA22W-196	82.3	56.2	0-
USG 3463	81.3	53.3	2
18VTK10-110	81.2	55.0	0-
GA141045-9-3-2-21LE7	81.1	55.3	1
17VTK4-29	80.9	50.9	0-
DH20SRW02-073	80.6	55.3	0-
MAS #225	80.6	53.8	3+
17VDH-SRW01-077	80.5	57.0	0-
VA18HRW-58	80.3	52.7	0-
18VTK10-23	80.2	57.9	0-
AgriMAXX EXP 2404	79.9	57.2	3
Dyna-Gro 9593	79.8	58.2	1
19VTK5-167	79.6	55.9	1
DH19SRW07-321	79.4	57.4	1
VA19FHB-36	79.4	58.0	0-
Phoenix 96	78.9	58.4	1
MAS #178	78.7	54.2	2
18VTK10-5	78.6	57.3	0-
Phoenix 29	78.4	55.6	1
Featherstone 3000	78.4	55.6	0-
Southern Harvest 9520	78.4	54.9	2
GA151313-LDH-192 -20E48	78.2	56.6	0-
17VDH-SRW02-125	78.1	56.3	0-
Liberty 5658	77.8	55.2	0
KWS543	77.8	56.1	3
VA20W-142	77.1	57.7	0-
GP 381	77.1	52.7	1
USG 3884	76.5	57.4	0-
USG 3363	76.4	55.4	4+
MERL	76.2	55.7	3+
15VTK-1-101-BS112	76.2	50.3	1
EPIX 3498	76.0	57.8	4+
VA21W-39	75.9	55.7	0
MAS #67	75.9	54.6	2
USG 3352	75.8	56.7	2
VA19HRW-17	75.6	51.0	1
MAS #227	75.5	59.6	2
26R59	75.1	54.3	4+
NC14757LDH-44	74.9	53.1	0-
AgriMAXX 503	74.9	58.0	3
18VTK15-27	74.5	56.3	0-
19VDH-FHB-MAS02-06	74.5	57.5	0
19VTK7-66	74.1	55.4	0-
DH17SRW136-066	74.1	52.7	2
EPIX 1365	74.0	55.5	2
16VDH-SRW03-023	73.8	53.5	0
AgriMAXX 535	73.5	55.8	2
Mean	76.7	55.1	2
LSD	15.1	6.8	1
CV	13.8	7.8	41

Continued...

Line	Grain Yield, bu/ac	Test Weight, lb/bu	Leaf Rust, 0-9
VA19W-29	73.3	57.6	3+
EPIX 3489	73.3	59.6	4+
DH19SRW09-073	73.0	51.7	0-
VA22FHB-90	72.8	62.2+	0-
Revere 2347	72.8	53.4	5+
26R33	72.6	55.1	4+
MAS #106	72.5	57.1	2
AgriMAXX 513	72.2	52.9	3
AgriMAXX 525	72.2	49.8	3+
NC11546-14	71.7	61.6	0-
DH19SRW07-309	71.3	54.5	0
MAS #139	70.8	52.8	6+
Dyna-Gro 9570	70.8	57.0	3+
Dyna-Gro 9231	70.5	49.6	4+
DH19SRW08-020	70.5	58.0	0
MAS #228	70.4	53.8	2
KWS542	70.3	50.8	0
Dyna-Gro 9551	70.1	54.0	4+
MAS #189	69.9	53.3	5+
InSpire FS 891	69.8	51.9	3
Dyna-Gro 9422	69.8	55.1	5+
Dyna-Gro 9533	69.6	56.6	4+
18VTK12-111	69.3	52.9	0-
NC18-16900	69.2	51.8	0-
MAS #2	69.1	57.1	1
AgriMAXX 545	69.1	49.7	3
Revere 2277	69.0	54.0	1
KWS529	68.8	49.7	2
18VTK18-112	68.6	48.1-	1
InSpire FS 743	68.3	53.8	4+
KWS527	68.3	53.5	3
VA20HRW-50	68.1	52.8	1
CP8024	68.0	NA	2
MAS #316	67.7	44.8-	3+
18VTK5-95	67.7	51.3	0-
AgriMAXX 516	67.6	56.1	5+
26R45	67.5	58.1	2
InSpire FS 745	67.2	52.3	3+
MBX 230	67.1	58.4	5+
KWS525	66.9	56.9	3+
MAS #190	66.7	54.8	4+
Southern Harvest 4222	66.7	57.6	4+
MAS #155	66.6	52.5	6+
CP8045	66.3	58.0	6+
AgriMAXX 505	66.2	54.4	4+
Revere 2169	65.2	56.8	5+
EPIX 4372	65.0	56.0	5+
Mean	76.7	55.1	2
LSD	15.1	6.8	1
CV	13.8	7.8	41

Continued...

Line	Grain Yield, bu/ac	Test Weight, lb/bu	Leaf Rust, 0-9
MAS #133	64.4	54.9	5+
Southern Harvest 7222	63.5	61.6	0
Dyna-Gro 9120	62.9	51.1	2
MASSEY	62.2	NA	8+
VA19MAS7-519-1WS-R110	61.7	51.7	0-
MBX 127	61.6	57.0	4+
DH19SRW08-001	61.0-	52.4	0-
USG 3472	59.7-	56.1	6+
USG 3574	58.5-	49.0	5+
Dyna-Gro 9151	58.0-	54.8	4+
Dyna-Gro 9172	56.2-	56.0	7+
17VTK18-13	54.2-	50.4	0-
Mean	76.7	55.1	2
LSD	15.1	6.8	1
CV	13.8	7.8	41

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.

Table 17. Performance of entries in the Virginia Tech Wheat Test, Eastern VA AREC in Warsaw, VA, 2024.

Line	Grain Yield, bu/ac	Test Weight, lb/bu	Heading Date, Julian	Height, in	Lodging, 0-9
VA20FHB-18	116.1+	56.6	109-	41.5+	1
NC20-21971	115.4+	55.6	110-	40.8	2+
USG 3354	115.0+	56.1	109-	39.0	2+
USG 3673	114.8+	56.3	111-	38.5	1
Dyna-Gro 9533	114.4+	53.6	115+	38.0	1
InSpire FS 745	112.4+	57.1	116+	39.5	1
MAS #155	112.2+	55.7	115	40.3	1
18VTK10-23	111.7+	58.3+	109-	41.0+	1
DH19SRW07-321	111.7+	56.2	115	40.3	1
Liberty 5658	111.6+	57.5	110-	41.3+	1
19VDH-FHB-MAS05-27	111.2+	55.1	116+	41.3+	1
Southern Harvest 5123	111.1+	56.0	112-	37.8	1
Dyna-Gro 9551	111.1+	54.7	110-	36.3-	1
VA22W-196	110.6+	55.4	108-	36.8	1
18VTK18-112	110.1+	56.8	111-	42.0+	1
USG 3463	110.0+	55.1	114	38.0	1
GA15490ID-19-5-21LE2	109.7+	56.3	113	40.3	1
16VDH-SRW03-023	109.4+	55.3	110-	40.0	1
GP 381	109.3+	57.0	110-	37.3	1
USG 3451	109.2+	57.1	109-	38.5	1
Revere 2169	109.2+	55.4	116+	40.5	1
MBX 127	109.1+	55.1	116+	39.3	1
USG 3352	108.7	55.9	117+	40.5	1
EPIX 4372	108.6	56.0	115+	39.5	1
NC14757LDH-44	108.3	56.6	110-	39.8	2+
Dyna-Gro 9422	108.2	56.2	114	39.5	1
VA20FHB-20	108.2	57.7	110-	40.8	1
VA22W-201	107.9	57.3	111-	35.0-	1
DH19SRW08-020	107.5	57.1	108-	36.8	1
Revere 2347	107.4	56.0	116+	41.3+	1
VA22W-21	107.3	55.3	117+	35.3	1
Revere 2277	106.6	56.5	119+	38.5	1
Dyna-Gro 9120	106.4	56.1	114	37.5	1
18VTK15-27	106.4	54.7	108-	39.3	2+
DH19SRW07-309	106.0	57.1	115	41.0+	1
AgriMAXX 516	106.0	54.1	116+	39.3	1
MAS #139	105.9	54.3	115	37.0	1
VA20W-142	105.8	56.2	112-	40.0	1
USG 3363	105.1	56.4	116+	40.3	1
USG 3661	105.0	55.1	114	37.0	1
MAS #226	104.8	56.3	111-	33.5-	1
17VTK4-29	104.7	55.2	110-	35.5	1
Dyna-Gro 9393	104.4	54.6	115+	37.5	1
Mean	101.2	55.6	114	38.7	1
LSD	7.7	2.2	1	2.2	0
CV	5.5	2.9	1	4.0	24
Continued...					

Line	Grain Yield, bu/ac	Test Weight, lb/bu	Heading Date, Julian	Height, In	Lodging, 0-9
19VDH-FHB-MAS03-29	104.2	55.7	111-	38.5	1
AgriMAXX 544	104.2	54.4	111-	39.5	1
Dyna-Gro 9231	104.1	55.8	115-	41.5+	1
MAS #86	104.0	55.6	115+	40.8	1
InSpire FS 743	103.9	56.5	116+	40.5	1
GA131246LDH-86-21E2	103.6	53.9	114	38.3	1
AgriMAXX 525	103.4	54.8	118+	37.3	1
EPIX 3498	103.3	56.6	116+	38.3	1
KWS529	103.3	54.0	113	37.3	1
KWS527	103.3	55.1	117+	38.5	1
MAS #228	103.1	55.9	116+	38.0	1
VT Pitman	103.0	55.7	110-	39.3	1
19VTK7-66	103.0	54.0	114	41.5+	1
15VDH-FHB-MAS25-15	103.0	56.0	110-	36.8	1
DH20SRW02-073	103.0	55.8	116+	36.5	1
18VTK10-5	102.9	56.7	114	38.0	1
Southern Harvest 4222	102.9	55.7	115+	41.0+	1
CP8045	102.8	54.8	116+	39.0	1
AgriMAXX 545	102.7	54.8	117+	36.3	1
MAS #225	102.5	55.2	116+	38.0	1
Dyna-Gro 9172	102.5	54.5	116+	38.3	1
NC15305-43	102.4	56.7	113	39.0	1
EPIX 3489	102.4	55.0	114	36.5	1
DH17SRW136-066	102.3	54.5	111-	39.0	1
KWS543	102.2	56.1	115+	36.8	1
Phoenix 29	102.2	56.2	115+	37.5	1
Dyna-Gro 9570	102.0	55.5	113	39.8	1
Phoenix 96	101.9	56.6	119+	42.0+	1
EPIX 4480	101.6	53.7	118+	38.3	1
NC18-16900	101.5	55.3	114	40.0	1
Southern Harvest 7222	101.4	56.7	115	39.3	1
Southern Harvest 9520	101.3	54.8	118+	38.3	1
VA21W-39	101.2	55.3	110-	40.8	1
NC16VT30-7-47	101.1	55.1	110-	37.0	2+
19VTK5-167	100.7	54.8	112	34.3	1
GP 543	100.5	54.2	108-	38.5	2+
UMD-VTWVT24-2	100.5	55.5	115	39.8	1
AgriMAXX 535	100.5	55.6	115+	38.0	1
VA21W-112	100.4	55.3	111-	37.0	1
17VDH-SRW02-125	100.3	56.8	116+	38.3	1
USG 3574	100.1	56.3	109-	36.0	1
VA19FHB-36	100.0	56.5	110-	41.8+	1
Dyna-Gro 9151	100.0	57.4	116+	38.3	1
MAS #190	99.9	54.8	119+	37.8	1
VA18HRW-58	99.7	57.1	120+	41.3+	1
15VTK-1-101	99.6	54.8	112	36.3-	1
InSpire FS 747	99.6	55.3	111	37.8	1
Mean	101.2	55.6	114	38.7	1
LSD	7.7	2.2	1	2.2	0
CV	5.5	2.9	1	4.0	24
Continued...					

Line	Grain Yield, bu/ac	Test Weight, lb/bu	Heading Date, Julian	Height, in	Lodging, 0-9
GANC12915-167-21E3	99.5	54.7	110-	38.8	1
MAS #178	99.5	55.2	115+	40.3	1
18VTK10-110	99.3	55.8	116+	38.3	1
AGS 4043	99.2	57.8	110-	35.5-	1
USG 3472	99.1	55.2	117+	37.5	1
Dyna-Gro 9553	98.8	54.4	117+	38.0	1
KWS542	98.4	55.4	114	41.0+	1
VA20W-135	98.4	56.6	113	41.5+	1
AGS 3026	98.2	56.5	117+	38.8	1
Dyna-Gro 9290	98.0	56.4	110-	37.8	1
Featherstone 3000	97.9	57.1	115	38.0	1
Southern Harvest 7200	97.7	56.7	108-	42.3+	1
UMD-VTWVT24-3	97.6	55.0	112	38.5	1
18VTK6-3	97.3	56.7	116+	38.0	1
GA141045-9-3-2-21LE7	97.3	56.9	115	42.3+	1
EPIX 1375	97.2	56.5	108-	37.8	2+
GA151313-LDH-192 -20E48	97.0	56.7	117+	32.8-	1
MAS #106	96.9	54.5	108-	35.5-	1
MAS #2	96.9	56.6	117+	45.3+	3+
Dyna-Gro Shirley	96.8	54.2	115	37.0	1
17VTK18-13	96.6	55.0	115+	40.0	1
InSpire FS 855	96.5	54.8	115+	39.3	1
18VTK5-95	96.4	57.8	113	37.8	1
DH19SRW08-001	96.3	56.1	115+	36.0-	1
MERL	96.2	57.4	109-	38.3	1
26R33	95.9	54.3	115	38.5	1
19VDH-FHB-MAS01-29	95.9	54.9	114	33.0-	1
MAS #227	95.7	55.2	117+	36.8	1
26R45	95.6	53.6	115+	39.5	1
AgriMAXX EXP 2404	95.5	54.1	118+	37.5	1
MAS #67	95.3	53.4	109-	37.0	1
MAS #189	95.1	56.3	108-	41.0+	2+
HILLIARD	95.1	55.8	110-	40.5	1
AgriMAXX 503	94.7	55.4	116+	37.5	1
NC11546-14	94.3	57.0	110-	39.8	2+
18VDH-FHB-MAS07-173-03	94.0	52.8	114	40.8	2+
CP8024	93.5-	56.7	117+	38.8	1
19VDH-FHB-MAS02-06	93.4-	55.3	117+	36.8	1
17VDH-SRW01-077	93.3-	55.2	109-	38.3	1
DH19SRW09-073	93.2-	54.2	113	42.5+	2+
AgriMAXX 505	93.1-	56.6	116+	37.8	1
AgriMAXX 513	93.0-	57.0	116+	38.5	1
VA19W-29	92.9-	54.5	111-	40.8	1
USG 3884	92.9-	55.2	112	36.5-	1
26R59	92.6-	53.2	113	35.0-	1
InSpire FS 891	92.4-	54.4	115	38.5	1
MBX 230	92.3-	55.8	115	40.0	1
Mean	101.2	55.6	114	38.7	1
LSD	7.7	2.2	1	2.2	0
CV	5.5	2.9	1	4.0	24
Continued...					

Line	Grain Yield, bu/ac	Test Weight, lb/bu	Heading Date, Julian	Height, in	Lodging, 0-9
MAS #316	91.8-	55.1	117+	40.0	1
Dyna-Gro 9593	91.6-	54.3	111-	35.8-	1
KWS525	91.5-	55.3	117+	37.3	1
VA22FHB-90	90.1-	55.0	119+	41.8+	1
18VTK12-111	90.0-	56.9	119+	35.8-	1
VA19MAS7-519-1WS-R110	89.4-	56.0	117+	38.0	1
EPIX 1365	89.3-	54.0	112	38.0	1
VA19HRW-17	88.6-	56.3	121+	40.0	1
MAS #133	88.3-	53.0	116+	40.0	1
VA20HRW-50	87.5-	56.2	117+	43.3+	1
MASSEY	81.8-	54.9	109-	41.5+	1
15VTK-1-101-BS112	NA	51.0	119+	36.3-	1
Mean	101.2	55.6	114	38.7	1
LSD	7.7	2.2	1	2.2	0
CV	5.5	2.9	1	4.0	24

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.

Table 18. Performance of entries in the Virginia Tech Wheat Test, Shenandoah Valley, VA, 2024.

Line	Grain Yield, bu/ac	Test Weight, lb/bu
Dyna-Gro 9422	106.6+	59.0
AgriMAXX 535	104.1+	59.9
26R33	103.6+	59.7
Dyna-Gro 9290	102.7+	59.1
Dyna-Gro 9593	101.3+	58.0
MAS #86	100.7+	58.1
MAS #228	99.5+	58.9
MAS #155	98.9+	59.3
USG 3472	98.5	58.6
Dyna-Gro 9231	98.5	58.8
Revere 2347	97.6	59.8
InSpire FS 745	97.3	57.1
EPIX 3489	97.1	57.3
AgriMAXX 525	96.3	59.5
AgriMAXX 516	96.2	58.9
EPIX 3498	96.1	59.2
Dyna-Gro 9172	96.1	58.7
Dyna-Gro 9551	96.1	57.3
MAS #316	95.9	57.9
MAS #227	95.9	59.6
USG 3352	95.6	58.4
AgriMAXX 545	95.6	58.0
AgriMAXX 513	95.3	59.9
Revere 2169	95.2	58.1
MAS #225	95.1	58.4
AgriMAXX 505	94.9	61.1
Dyna-Gro 9570	94.4	57.0
KWS543	93.9	58.4
CP8045	93.8	57.7
MBX 230	93.6	59.8
USG 3463	93.3	58.0
KWS542	93.2	58.3
InSpire FS 891	92.8	59.9
InSpire FS 855	92.8	58.8
InSpire FS 743	92.6	60.1
Dyna-Gro 9553	91.8	58.6
MAS #2	91.6	60.6
USG 3363	91.6	60.0
Dyna-Gro 9120	91.1	60.8
MAS #226	90.8	58.0
MAS #190	90.4	59.5
AgriMAXX EXP 2404	90.0	58.1
NC18-16900	89.6	60.3
Mean	82.1	58.0
LSD	16.4	3.2
CV	14.1	3.8

Continued...

Line	Grain Yield, bu/ac	Test Weight, lb/bu
18VTK15-27	89.4	57.2
MAS #139	89.3	58.1
VA20FHB-20	89.1	60.6
KWS525	89.0	59.0
Revere 2277	88.8	56.7
EPIX 4372	87.9	57.9
KWS527	87.9	59.8
MBX 127	87.9	58.0
Phoenix 96	87.3	58.6
Dyna-Gro 9393	87.1	58.6
Phoenix 29	87.0	56.5
NC15305-43	86.8	61.0
Southern Harvest 9520	86.7	59.1
NC14757LDH-44	86.5	58.2
26R59	86.5	58.1
VT Pitman	86.4	60.4
NC20-21971	86.2	59.0
Dyna-Gro 9151	85.8	60.9
Liberty 5658	85.8	59.6
Southern Harvest 5123	85.2	60.3
Dyna-Gro 9533	84.8	57.4
Featherstone 3000	84.6	58.0
VA20W-142	84.4	57.7
Southern Harvest 4222	84.3	59.5
AGS 4043	84.2	59.7
EPIX 4480	84.2	58.7
GP 543	84.0	57.1
USG 3661	83.9	55.1
UMD-VTWVT24-2	83.6	60.2
UMD-VTWVT24-3	83.4	58.8
USG 3451	83.3	60.4
VA20FHB-18	83.2	59.7
19VDH-FHB-MAS05-27	82.8	55.7
USG 3884	82.6	57.7
MAS #106	82.5	58.1
GP 381	82.3	56.3
EPIX 1375	81.8	55.1
Dyna-Gro Shirley	81.6	54.5-
VA18HRW-58	81.3	58.6
18VTK10-23	81.0	60.3
VA22W-201	80.8	59.5
USG 3354	80.8	56.5
18VTK18-112	80.7	59.6
DH19SRW08-020	80.3	58.7
18VTK12-111	79.3	58.3
VA20HRW-50	79.3	58.7
MAS #133	79.0	55.7
Mean	82.1	58.0
LSD	16.4	3.2
CV	14.1	3.8

Continued...

Line	Grain Yield, bu/ac	Test Weight, lb/bu
MAS #189	78.5	60.5
18VTK10-110	78.1	60.5
17VDH-SRW01-077	77.7	59.8
MERL	77.4	59.5
DH17SRW136-066	77.1	57.2
DH20SRW02-073	76.8	57.0
26R45	75.7	57.1
MAS #178	75.7	56.6
GA141045-9-3-2-21LE7	75.3	59.9
NC11546-14	75.1	61.1
USG 3673	75.1	59.3
AgriMAXX 544	75.1	58.4
VA19W-29	75.0	56.9
EPIX 1365	74.9	56.8
GA15490ID-19-5-21LE2	74.7	56.7
USG 3574	74.6	58.3
InSpire FS 747	74.6	59.1
NC16VT30-7-47	74.2	60.3
VA20W-135	74.2	55.6
MASSEY	74.0	59.2
17VTK4-29	74.0	58.9
VA22W-196	73.4	53.3-
VA19FHB-36	73.2	59.6
18VTK6-3	73.1	58.7
GA151313-LDH-192 -20E48	73.1	57.8
17VTK18-13	72.8	55.0
Southern Harvest 7200	72.6	58.4
15VTK-1-101	72.5	56.8
Southern Harvest 7222	72.3	59.0
KWS529	72.3	57.5
17VDH-SRW02-125	72.0	60.6
19VDH-FHB-MAS02-06	71.8	60.0
HILLIARD	71.6	58.2
18VTK10-5	70.4	57.6
MAS #67	70.2	57.6
18VDH-FHB-MAS07-173-03	70.2	59.3
16VDH-SRW03-023	69.4	56.3
19VTK7-66	69.3	56.7
19VTK5-167	69.2	57.7
15VDH-FHB-MAS25-15	68.3	58.4
VA22FHB-90	66.2	56.8
CP8024	66.2	59.7
DH19SRW07-321	64.9-	55.8
DH19SRW08-001	64.9-	53.0-
DH19SRW07-309	64.8-	58.1
VA19HRW-17	64.8-	55.3
19VDH-FHB-MAS03-29	64.3-	58.3
Mean	82.1	58.0
LSD	16.4	3.2
CV	14.1	3.8

Continued...

Line	Grain Yield, bu/ac	Test Weight, lb/bu
18VTK5-95	63.7-	55.8
VA21W-39	62.2-	57.7
GA131246LDH-86-21E2	60.9-	51.8-
GANC12915-167-21E3	60.3-	55.4
VA21W-112	59.6-	51.7-
DH19SRW09-073	59.3-	55.8
VA22W-21	58.4-	53.3-
VA19MAS7-519-1WS-R110	58.2-	56.7
AGS 3026	49.9-	49.5-
19VDH-FHB-MAS01-29	49.9-	50.9-
15VTK-1-101-BS112	NA	49.4-
AgriMAXX 503	NA	56.2
Mean	82.1	58.0
LSD	16.4	3.2
CV	14.1	3.8

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

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2025

SPES-650NP (SPES-745NP)