

TABLE 3. 2024 Oat Variety Trial at Boone in central Iowa.  
*Varieties with a test weight that meets food grade specification ( $\geq 38$  lb/bu) are highlighted.*

VARIETY	YIELD			TEST WEIGHT (lb/bu)	PLANT HT at HARVEST (in.)	LODGING (%)
	2024 (bu/ac)	% of 2024 site avg.	3-yr avg. <sup>b</sup> (bu/ac)			
Antigo	103	90%	124	37	33	100
Esker 2020	118	102%	131	36	34	100
Goliath	121	105%	131	37	43	98
Jerry	113	98%	129	37	36	98
Mink	98	85%	--	37	26	58
MN Pearl	127	110%	129	37	35	80
Morton	112	97%	119	36	40	85
Reins	111	96%	131	37	31	83
Rushmore	122	105%	136	37	35	75
Saddle	134	116%	65	37	32	40
Shelby 427	113	97%	119	38	36	93
SD Buffalo	120	104%	137	36	35	62
SD Momentum	115	100%	--	38	45	63
Sumo	110	95%	115	37	37	95
Warrior	117	101%	127	35	31	62
Mean	116	--	--	37	35	80
LSD (90%) <sup>a</sup>	17	--	--	1	4	26

<sup>a</sup> By response variable, if the difference between any two entries is greater than the least significant difference (LSD) the entries are considered statistically different with 90% confidence.

<sup>b</sup> Average yield of each variety from the past three years at Boone, including 2024. '--' indicates a variety with less than a three-year history.

TABLE 1: Origin, PVP and disease ratings for oat varieties trialed in 2024.

VARIETY	ORIGIN <sup>a</sup>	YEAR RELEASED	PVP <sup>b</sup>	MATURITY	DISEASE RATINGS <sup>c</sup>			
					CROWN RUST	STEM RUST	BYDV <sup>d</sup>	SMUT
Antigo	WI	2017	PVP	Early	MR	S	MR	MR
Esker 2020	WI	2020	PVP	Medium	MR	MR	MR	R
Goliath	SD	2013	PVP	Late	MS	R	MR	MR
Hayden	SD	2015	PVP	Med-Late	MS	MS	MR	R
Jerry	ND	1994	PVP	Medium	MS	MS	MS	MS
Mink	WI	2022	PVP	Late	MR	R	R	--
MN Pearl	MN	2018	PVP	Late	MR	MR	MS	R
Morton	ND	2001	PVP	Late	MR	MR	MS	R
Reins	IL	2016	PVP	Early	MR	MR	R	R
Rushmore	SD	2019	PVP	Medium	MR	--	MR	MR
Saddle	SD	2018	PVP	Early	MR	S	MR	R
Shelby 427	SD	2011	PVP	Medium	MS	MS	MR	MR
SD Buffalo	SD	2022	PVP	Medium	R	MR	MR	--
SD Momentum	SD	2024	PVP	Med-Late	R	--	MR	R
Sumo	SD	2017	PVP	Early	MR	R	MS	R
Warrior	SD	2019	PVP	Med-Late	R	--	MS	R

<sup>a</sup> Origin: IL-University of Illinois; MN-University of Minnesota; ND-North Dakota State University; SD-South Dakota State University; WI-University of Wisconsin.

<sup>b</sup> PVP = Plant Variety Protection. The PVP Act provides a certificate to the developer of a variety granting exclusive rights for reproducing and marketing the seed.

<sup>c</sup> Disease Ratings: S = susceptible; MS = moderately susceptible; MR = moderately resistant; R = resistant.

<sup>d</sup> Disease: BYDV = Barley Yellow Dwarf Virus.

TABLE 2. 2024 Oat Variety Trial at Kanawha in north-central Iowa.  
*Varieties with a test weight that meets food grade specification ( $\geq 38$  lb/bu) are highlighted.*

VARIETY	YIELD			TEST WEIGHT (lb/bu)	PLANT HT at HARVEST (in.)	LODGING (%)
	2024 (bu/ac)	% of 2024 site avg.	3-yr avg. <sup>b</sup> (bu/ac)			
Antigo	113	80%	124	38	41	48
Esker 2020	81	58%	142	33	51	65
Goliath	154	109%	114	35	49	20
Jerry	164	116%	140	37	36	20
Mink	149	106%	--	33	49	7
MN Pearl	124	88%	150	34	50	0
Morton	158	112%	124	37	36	8
Reins	148	105%	151	37	45	33
Rushmore	182	129%	154	36	41	3
Saddle	140	99%	160	35	48	2
Shelby 427	144	102%	132	36	45	33
SD Buffalo	152	107%	146	31	43	68
SD Momentum	129	92%	--	35	54	5
Sumo	129	91%	120	36	43	20
Warrior	162	115%	139	33	45	15
Mean	141		140	35	45	22
LSD (90%) <sup>a</sup>	36	--	--	2	2	16

<sup>a</sup> By response variable, if the difference between any two entries is greater than the least significant difference (LSD) the entries are considered statistically different with 90% confidence. Jerry and Esker 2020 excluded from LSD calculations, missing reps (lost 1 Esker, 2 Jerry reps).

<sup>b</sup> Average yield of each variety from the past three years at Kanawha, including 2024. '--' indicates a variety with less than a three-year history.

TABLE 4. 2024 Oat Variety Trial at Nashua in northeast Iowa.  
*Varieties with a test weight that meets food grade specification ( $\geq 38$  lb/bu) are highlighted.*

VARIETY	YIELD			TEST WEIGHT (lb/bu)	PLANT HT at HARVEST (in.)	LODGING (%)	STRAW YIELD (ton/ac)
	2024 (bu/ac)	% of 2024 site avg.	3-yr avg. <sup>b</sup> (bu/ac)				
Antigo	119	93%	116	38	40	2	1.5
Esker 2020	148	116%	130	34	42	4	1.6
Goliath	120	94%	113	37	53	0	2.1
Hayden	130	102%	129	37	43	0	1.7
Jerry	102	79%	116	35	44	0	1.2
Mink	112	87%	--	38	35	0	1.6
MN Pearl	139	108%	128	34	43	0	1.7
Morton	108	84%	112	35	45	0	2.2
Reins	133	104%	132	37	35	0	1.7
Rushmore	154	120%	135	38	41	0	2.2
Saddle	147	115%	135	35	40	0	2.0
Shelby 427	132	103%	119	38	42	0	2.2
SD Buffalo	137	107%	137	36	45	0	2.1
SD Momentum	120	93%	--	35	52	0	2.4
Sumo	119	92%	110	38	41	0	1.9
Warrior	132	103%	126	36	38	0	1.8
Mean	128	--	--	36	42	0	1.9
LSD (90%) <sup>a</sup>	11	--	--	0.4			

<sup>a</sup> By response variable, if the difference between any two entries is greater than the least significant difference (LSD) the entries are considered statistically different with 90% confidence.

<sup>b</sup> Average yield of each variety from the past three years at Nashua, including 2024. "--" indicates a variety with less than a three-year history.

TABLE 5. 2024 Oat Variety Trial at Greenfield in southwest Iowa.  
*Varieties with a test weight that meets food grade specification ( $\geq 38$  lb/bu) are highlighted.*

VARIETY	YIELD			TEST WEIGHT (lb/bu)	PLANT HT at HARVEST (in.)	LODGING (%)
	2024 (bu/ac)	% of 2024 site avg.	3-yr avg. <sup>b</sup> (bu/ac)			
Antigo	97	84%	96	39	41	63
Esker 2020	112	98%	104	34	44	57
Goliath	68	59%	77	35	56	87
Jerry	120	104%	94	36	48	22
Mink	124	108%	--	39	39	13
MN Pearl	130	113%	104	34	46	5
Morton	103	89%	88	35	57	8
Reins	132	115%	109	39	42	7
Rushmore	122	106%	108	38	46	18
Saddle	143	124%	125	36	45	2
Shelby 427	112	97%	99	38	46	48
SD Buffalo	128	112%	116	35	49	7
SD Momentum	101	87%	--	35	58	33
Sumo	109	95%	86	39	47	47
Warrior	126	109%	110	35	44	7
Mean	115	--	--	36	47	28
LSD (90%) <sup>a</sup>	13	--	--	2	3	26

<sup>a</sup> By response variable, if the difference between any two entries is greater than the least significant difference (LSD) the entries are considered statistically different with 90% confidence.

<sup>b</sup> Average yield of each variety from the past three years at Greenfield, including 2024. '--' indicates a variety with less than a three-year history.