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2022 Small Grains Performance Trials for New York

Enclosed are the results of our 2022 small grains regional trials and the cumulative summaries over years. Because the rankings of the varieties and lines often change from year to year, only the multiple year summaries should be considered to be useful indicators of varietal performance in this region. Reproduction of any table in this report must include the entire table unless we approve the editing. The information herein is provided with the understanding that no discrimination is intended and no endorsement by Cornell University or its employees is implied.

Your comments and suggestions concerning this report are welcome. If you would like additional information or do not wish to receive this report in the future, please contact us. Summaries and information about the Cornell Small Grains Breeding & Genetics Project are maintained on our small grains web page: <http://smallgrains.cals.cornell.edu>

We have continued to develop and test selections from our molecular marker-assisted breeding program in our soft winter wheat and barley breeding programs. Our most recent varieties are Medina (soft white) and Erie (soft red). These selections have improved resistance to preharvest sprouting and fusarium head blight combined with excellent agronomic performance. Medina has excellent malting quality for brewing wheat beer. Erie is a soft red winter wheat variety released in collaboration with Ohio State University that has excellent grain yield and disease resistance to powdery mildew, leaf spot, glume blotch, leaf rust, wheat spindle streak mosaic virus, wheat soil borne mosaic virus, and moderate resistance to fusarium head blight (scab). Our newest spring oat variety is Steuben, and it has excellent yield potential. In 2021, we released Cornell's first spring malting barley variety named Excelsior Gold and at the same time we released CU198. Certified seed of Excelsior Gold and CU198 was produced in 2021. Please contact Phil Atkins (pma3@cornell.edu), for more information. Lastly, we co-released a new winter malting barley with Oregon State University named Lightning. Certified seed will be available in 2023.

I wish to recognize the contributions of Research Support Specialist, David Benschler, Technical Assistant, Jason Schiller, and Field Assistant, Jenna Rice and thank them for their dedication.
Sincerely,

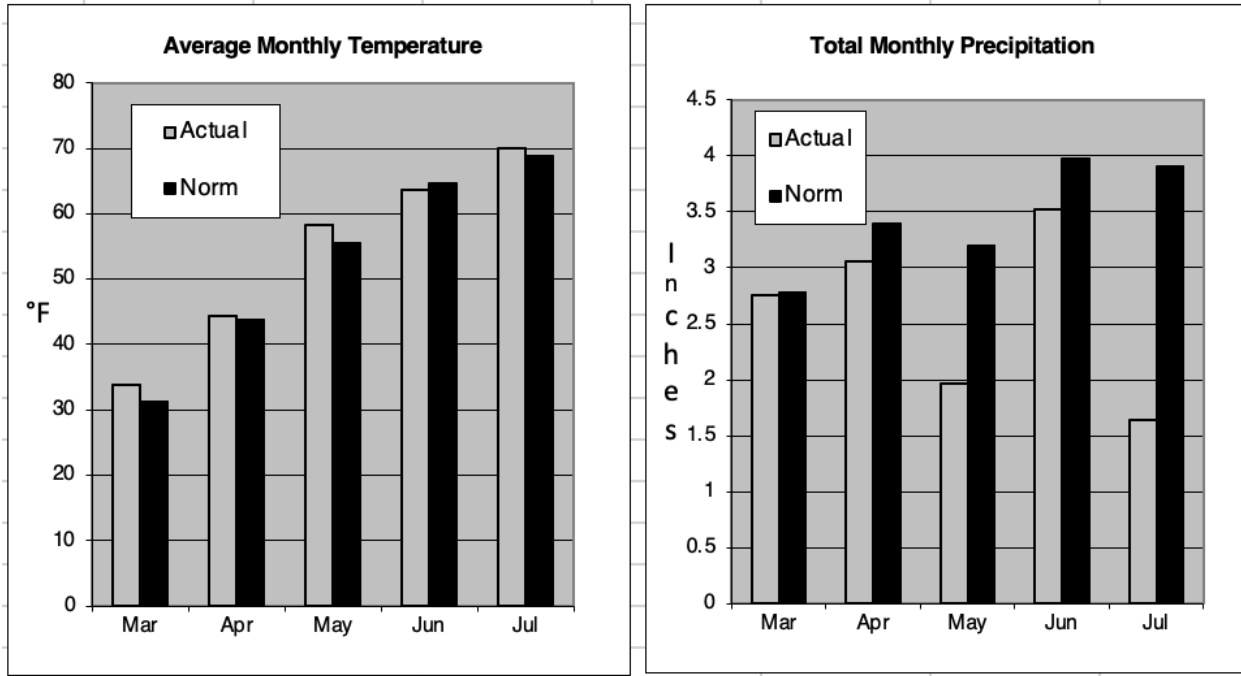
Mark E. Sorrells
Professor of Plant Breeding & Genetics

Testing Procedures:

In 2022, the Soft White Winter Wheat, Soft Red Winter Wheat, Winter Malting Barley, Spring Malting Barley, and Spring Oat regionals were grown in four locations and the Winter Hybrid Rye was grown in two location. The wheat and oat trials near Ithaca consisted of 2 replicates while those out in the state consisted of 3 replicates. All barley and rye trials were grown in 3 replicates at all locations. All trial plots are 6-rows, 4 meters long with 18 cm between rows. Prior to harvest, the plots are trimmed to 3 meters. Disease and lodging notes were recorded on a 0 to 9 scale with 0 being the best

and 9 the poorest. All trials are planted in a randomized complete block design and analyzed by ANOVA. If there are indications of within replicate field variation a second ANOVA using a nearest-neighbor adjustment is computed based on the nearest 8-plot mean. If the coefficient of variation was reduced and the variance due to genotypes was the same or increased, those adjusted means were used for the summary. All trials are fertilized according to soil test recommendations for small grains. Winter grains trials generally receive a top dress of 56 kg/h (50 lbs/a) of actual N in the spring. For more information about small grains management see <http://fieldcrops.cals.cornell.edu/>.

2022 Precipitation and Temperature



The winter wheat and winter malting barley trials were planted on October 1 and 8 in Ithaca, October 2 in Seneca County and October 14 in Livingston County. The spring grains were planted on May 3 and May 9 in Ithaca, May 2 in Seneca County and April 25 in Steuben County. The Hudson Valley winter trials were planted on October 13 and spring trials were planted April 22. The growing season averaged about 1.2 degrees warmer than normal, and rainfall was 4.32 inches below average with a total of 12.9 inches for the growing season (March – July) in Ithaca.

Acknowledgments:

Our testing program depends on being able to test new varieties in the areas where they will be grown under actual farming conditions. We gratefully acknowledge the many farmers who have provided us with a test site for our regional trials over many years. This year, the test site for winter grains was generously provided by Jeff Trout (Poormon Farms) in Seneca County and Rick Bair (Stokoe Farms) in Livingston County. Test sites for spring grains were provided by Dave Wallace - Steuben County, Jeff Trout in Seneca County and Jeff Arnold in Ulster County (Farm Hub). Without their support we would not be able to provide accurate, unbiased test results. Extension specialists Mike Stanyard, Aaron Gabriel and Christian Malsatski have been instrumental in arranging test sites, field days, and information distribution. Also, we thank Drs. Gary C. Bergstrom and Margaret E. Smith, extension faculty in Plant Pathology and Plant Breeding & Genetics for their excellent cooperation and support. We also gratefully acknowledge the financial support from NY State Ag & Markets, and the USDA NIFA Organic Research and Extension Initiative grant numbers 2011-51300-30697 and 2020-51300-32379, Agriculture and Food Research Initiative Competitive Grants 2011-68002-30029 (Triticeae-CAP) and 2017-67007-25939 (Wheat-CAP) from the USDA National Institute of Food and Agriculture, the U.S. Wheat and Barley Scab Initiative and Hatch Project 945.

2022 Cornell Small Grains Regional Trial Entries

Soft White Winter Wheat Regional				Red Winter Wheat Regional			
Entry Name	Years Tested	Mkt Class	Pedigree/Origin - Contact	Entry Name	Years Tested	Mkt Class	Pedigree/Origin - Contact
1 Houser	44	SWW	Offtype selection out of Geneva (Cornell)	1 Erie	13	SRW	Foster/Hopewell/OH581/OH569
2 Caledonia	32	SWW	Offtype selection out of Geneva (Cornell)	2 NY11013-10-15-1312	6	SRW	10011-6 x Ava = OH02-12686/Ava-6//Ava
3 Cayuga	30	SWW	Reselection of NY262-37-10W (Cornell)	3 NY12299-1-3-14	4	SRW	09067-2-4 x Va05w-251 = OH02-12686/Cal-Res-L03179
4 Medina	20	SWW	MD286-21/Harus	4 Liberty 5658	3	SRW	VCIA
5 NY99056-161	12	SWW	NY85020-395/Pio25W33 (10+6)	5 NY12300-1-6-07-1436	3	SRW	NY09067-2-4/Va08W-176
6 NY11014-9-25-1319	6	SWW	10061-4 x Ava = 03179-10/Ava-4//Ava	6 NY12325-1-10-12-1476	3	SRW	NY09063-11-64/NY09068-5-19
7 NY12006-2-1-7	5	SWW	Medina x 03180-10	7 SW65SR	2	SRW	Seedway, Hall NY
8 NY12457-1-8-02	4	SWW	94052-6090Bx 09095-22 =	8 SW51SR	2	SRW	Seedway, Hall NY
9 NY12397-1-4-13	4	SWW	09107-24 x 05158-848 = Pio25w41/Richland/NY7388/Madsen/Va97w-	9 Reverse 2169	2	SRW	Local Seed Co. - Charlie Robinette
10 NY12398-2-16-07-03W-1580	3	SWW	09107-24 x 05158-848 = Pio25w41/Richland/NY7388/Madsen/Va97w-	10 Reverse 2148	2	SRW	Local Seed Co. - Charlie Robinette
11 NY12512-1-6-05-1542	3	SWW	94052-6090Bx 09095-22 =	11 NY12325-1-10-18-1477	2	SRW	NY09063-11-64/NY09068-5-19
12 NY12397-1-4-13-1512	2	SWW	(Caledonia/Cayuga/Caledonia 4//Caledonia-1//Caledonia-7//Caledonia-5-	12 NY12351-1-14-20-1484	2	SRW	NY09068-5-19/OH06-180-57
13 NY12007-2-4-13-1381	2	SWW	Pio25R39/Hopkins	13 OH12-317-57-1413	2	SRW	Ohio State U.
14 NY12311-1-30-10-1452	2	SWW	NY09067-2-69/OH06-180-57	14 NY12302-2-14-01-1441	2	SRW	NY09067-2-4/NY09067-2-48BR
15 NY12508-1-7-15-1536	2	SWW	(Caledonia/Cayuga/Caledonia 4//Caledonia-1//Caledonia-7//Caledonia-5-	15 NYL04-8445R-1654	2	SRW	
16 NY15158-01-01-10-1873	1	SWW	SE00-10303-35MSU F2016	16 NY12308-1-18-09-1449	2	SRW	NY09067-2-69/NY09063-11-64
17 NY15148-01-01-11-1861	1	SWW	MSU F1029/Po25W36	17 NY12302-2-14-08-1442	2	SRW	NY09067-2-4/NY09067-2-48BR
18 NY15158-01-01-11-1874	1	SWW	SE00-10303-35MSU F2016	18 Reverse 2266	1	SRW	Local Seed Co. - Charlie Robinette
19 NY15150-01-01-12-1870	1	SWW	SE00-10303-35MSU F1029	19 Reverse 2277	1	SRW	Local Seed Co. - Charlie Robinette
20 NY15148-01-01-10-1860	1	SWW	MSU F1029/Po25W36	20 KWS384	1	SRW	KWS - James Gillum
21 NY15149-01-01-03-1863	1	SWW	Pio25W43/MSU F1029	21 KWS411	1	SRW	KWS - James Gillum
22 NY15150-01-01-05-1868	1	SWW	SE00-10303-35MSU F1029	22 KWS415	1	SRW	KWS - James Gillum
23 NY15149-01-01-10-1866	1	SWW	Po25W43/MSU F1029	23 16VDH-SRW03-023	1	SRW	USG 3118"S (VA12W-54)/HILLIARD (VA11W-108)
24 NY99056-161-O	1	SWW	NY85020-395/Pio25W33 (10+6)	24 X11-0357-24-13-5	1	SRW	KY02C-3005-25/VA06W-558/BRANSON
25 NY99056-161-G	1	SWW	NY85020-395/Pio25W33 (10+6)	25 NY15116-01-06-01-1804	1	SRW	OH05-248-38/Pio25R56
26 NY99056-161-R	1	SWW	NY85020-395/Pio25W33 (10+6)	26 Pioneer 25R40	10	SRW	Corteva
				27 Pioneer 25R64	1	SRW	Corteva
				28 Blaze	1	SRW	C & M Seeds - Ellen Sparry
				29 Hilliard	1	SRW	Virginia Crop Imp.
				30 VA17W-75	1	SRW	Virginia Crop Imp.
Spring Oat Regional Trial				Winter Malting Barley Regional Trial			
Entry Name	Years Tested	Mkt Class	Pedigree/Origin - Contact	Entry	Years Tested	Row No.	Breeder
1 OGLE	44		Brave/Tyler/Egdolon 23 (Astro/PI193027)	1 Saturn	10	6	goe2@breun.de
2 NEWDAK	37		ND810104=RL 3038/Goodland/Ogle	2 KWS Scala	9	2	KWS LOCHOW GMBH - Germany
3 Corral	16		IL95-4774/L95-8346	3 SY Tepee (209-66)	9	2	Matt Europe
4 Steuben	11		SA050128/ND020965	4 Lightning (DH130910 Fac)	6	2	Oregon State U.
5 Buff	7		SDSU - M. Caffe	5 LCS Calypso	5	2	Limagrain
6 IL12-9020	5		8024, 8044 (fill plots umopn17)	6 LCS Violette	5	2	Limagrain
7 SD150015	4		SD081108/SD100940/SD060130	7 DH131738 (Fac)	5	2	OR91005-5401.05
8 SD140741	4		SD070394/SD080611	8 DH130935 (Fac)	5	2	OR818KW2-042
9 ND150797	3		ND090832/ND070499	9 Buck	5	6	Strider/Doyce
10 BC02004	3		Seed-link Inc.	10 10.1618	5	6	Fridericus x Maja/Legacy/Maja/3/Doyce
11 BC02005	3		Seed-link Inc.	11 BC Clematine	2	2	Limagrain
12 OA1456-2N	3		AAFC/AAC W. Yan	12 BC Fay	2	2	Limagrain
13 Navaro	3		Semican	13 DH141132	2	2	Oregon State U.
14 Casino	3		Semican	14 DH133535	1	2	OR101DZ100341
15 14ANS01	3		Semican	15 BS814-133	1	2	SY Tepee/DH130910
16 15ANS06	3		Semican	16 BS811-34	1	2	SY Tepee/DH130910
17 BC02101	2		Seed-link Inc.	17 BS813-112	1	2	SY Tepee/DH130910
18 BC02102	2		Seed-link Inc.	18 BS812-52	1	2	SY Tepee/DH130910
19 SD170777	2		Sumo/SD110301	19 BS816-61	1	2	Flavia/DH130910
20 BC02103	1		Seed-link Inc.	20 BS710-42	1	2	KWS Scala/DH130910
				21 BS814-121	1	2	SY Tepee/DH130910
				22 BS812-80	1	2	SY Tepee/DH130910
				23 BS813-98	1	2	SY Tepee/DH130910
				24 BS814-124	1	2	SY Tepee/DH130910
				25 BS813-9	1	2	Flavia/DH130910
				26 BS813-117	1	2	SY Tepee/DH130910
				27 BS811-43	1	2	SY Tepee/DH130910
				28 BS614-23	1	2	Flavia/DH130910
				29 BS908-14	1	2	Wintmalt/DH130910
				30 BS812-57	1	2	SY Tepee/DH130910
				31 BS613-14	1	2	Flavia/DH130910
				32 BS812-48	1	2	SY Tepee/DH130910
				33 BS616-78	1	2	Flavia/DH130910
				34 BS613-12	1	2	Flavia/DH130910
				35 BS713-94	1	2	KWS Scala/DH130910
				36 BS912-138	1	2	Wintmalt/DH130910
Spring Malting Barley Regional Trial							
Entry	No.	Years Tested	Pedigree/Origin - Contact				
1 Quest	6	9	K. Smith M122				
2 ND Genesis	2	7	R. Horsley				
3 AAC Synergy	2	6	Licensed to Syngenta				
4 Newdale	2	6	Exp# TR258 is CDC Stratus/ITR236/WM862-6				
5 Explorer	2	4					
6 Esma	2	3					
7 Eifel	2	3					
8 CU127	2	3	Synergy/Pinnacle				
9 CU198	2	3	Synergy/Tinka				
10 CU36	2	2	Synergy/Genesis*				
11 CU22	2	2	Synergy/Genesis				
12 CU75	2	2	Synergy/Genesis				
13 CU29	2	2	Synergy/Genesis				
14 Excelsior Gold	2	2	Synergy/Craft				
15 CU4	2	2	Synergy/Craft				
16 CU20	2	2	Synergy/Craft				
17 CU142	2	2	Synergy/Craft				
18 CU110	2	2	Synergy/Craft				
19 CU54	2	2	Synergy/Craft				
20 CU193	2	2	Synergy/Craft				
21 CU235	2	2	Synergy/Tinka				
22 CU143	2	2	Synergy/Craft				
23 CU162	2	2	Synergy/Pinnacle				
24 CU107	2	2	Synergy/Genesis				
25 BC Ellnor	2	2	B. Cooper, LimaGrain				
26 BC Leandra	2	2	B. Cooper, LimaGrain				
27 BC Lexy	2	2	B. Cooper, LimaGrain				

2022 Soft White Winter Wheat Summaries - Cornell University

Entry	Grain Yield (kg/h)						Test Weight kg/hl	Lodg. 0-9	Head Date 2 Loc	Winter Surv %	Height cm	Preharvest		Powd. Mildew 0-9	FHB Incid. %	FHB Sev. %	FHB Index %	DON ppm	
	Regional Locations											Sprouting 0-9	Rank						
	lth-Cald	lth-Sny	SenCo	LivCo	Mean	Rank													
1 Houser	6309	5369	4048	6768	5623	4	74.7	6.2	5/29	93	111	5.1	24	3.0	NA	NA	NA	NA	
2 Caledonia	5418	6122	4089	7328	5739	2	74.7	5.0	5/28	100	101	4.3	17	3.0	98	56	54.6	24	
3 Cayuga	6273	5335	3430	6249	5322	20	78.0	6.1	5/31	97	116	2.1	1	3.5	NA	NA	NA	NA	
4 Medina	5595	5783	3822	7146	5586	6	76.1	5.5	5/29	98	105	2.2	2	3.0	73	20	14.5	4	
5 NY99056-161	5832	5694	3575	7408	5627	3	75.5	5.7	5/29	95	100	4.5	19	2.0	41	31	12.6	3	
6 NY11014-9-25-1319	5956	5954	4273	7573	5939	1	75.7	5.0	5/29	98	103	4.5	20	2.5	80	37	29.4	17	
7 NY12006-2-1-7	5912	5625	3894	6584	5504	9	75.8	5.8	5/31	98	101	3.4	10	3.0	69	33	22.5	10	
8 NY12457-1-8-02	6196	5777	3673	6754	5600	5	74.2	6.7	5/28	97	95	3.3	8	2.5	61	30	18.2	5	
9 NY12397-1-4-13	6106	4986	3688	6760	5385	17	75.8	6.4	5/27	97	86	2.8	4	0.0	93	31	28.2	15	
10 NY12398-2-16-07-03W-1580	5663	5147	3222	7306	5335	19	77.0	4.3	5/29	95	88	3.0	6	2.0	81	28	22.8	11	
11 NY12512-1-6-05-1542	4406	6156	4087	7192	5460	13	74.5	7.1	5/30	95	97	4.0	14	2.5	80	23	18.6	6	
12 NY12397-1-4-13-1512	5768	5428	2690	6801	5171	25	75.7	6.4	5/27	91	84	2.4	3	0.0	91	36	32.6	19	
13 NY12007-2-4-13-1381	5661	5497	3379	6685	5306	21	76.1	4.6	5/28	91	101	4.1	15	3.0	38	22	8.1	2	
14 NY12311-1-30-10-1452	5819	5728	2992	6888	5357	18	75.5	6.4	5/29	81	94	3.3	9	1.0	78	33	25.6	13	
15 NY12508-1-7-15-1536	5840	5488	3141	7843	5578	7	75.4	7.6	5/26	93	88	4.1	16	2.5	89	29	25.3	12	
16 NY15158-01-01-10-1873	5471	6364	3554	6748	5534	8	73.5	8.2	5/26	93	93	5.1	25	7.5	96	33	31.8	18	
17 NY15148-01-01-11-1861	5346	5753	3203	6856	5289	22	74.7	6.9	5/28	92	90	3.9	13	1.5	94	42	39.1	21	
18 NY15158-01-01-11-1874	4949	6215	3382	7129	5419	14	72.6	8.5	5/26	92	89	4.3	18	5.0	88	32	28.2	16	
19 NY15150-01-01-12-1870	5513	5763	3594	7050	5480	11	74.6	4.3	5/26	92	91	2.8	5	0.0	99	49	48.1	23	
20 NY15148-01-01-10-1860	5672	5614	3283	7063	5408	16	74.0	7.0	5/28	85	93	5.0	23	1.0	75	27	20.1	8	
21 NY15149-01-01-03-1863	5469	5719	3124	6743	5264	23	73.3	5.4	5/27	86	92	5.2	26	1.5	90	24	21.6	9	
22 NY15150-01-01-05-1868	5570	5077	4091	7155	5473	12	75.9	7.5	5/26	92	90	3.1	7	2.0	96	47	45.2	22	
23 NY15149-01-01-10-1866	5723	5598	2891	6628	5210	24	73.4	6.3	5/27	88	90	4.8	22	0.5	91	38	34.2	20	
24 NY99056-161-O	5969	5802	3515	6726	5503	10	74.8	5.8	6/1	97	99	4.5	21	2.0	13	9	1.1	1	
25 NY99056-161-G	5756	6024	3416	6462	5415	15	75.5	6.1	5/29	94	99	3.7	11	2.5	73	27	19.6	7	
26 NY99056-161-R	5295	5779	3480	5952	5127	26	75.5	6.8	5/29	93	93	3.7	12	2.5	80	35	27.8	14	
Mean	5673	5685	3521	6915	5448		75.1	6.2	5/28	93	96	3.8		2.3	78	32	26.2		
CV	9.2	5.3	10.4	9.0															

Entry	Grain Yield						Test Weight		Lodging		Head Date 2 Yr	FHB %Inc 2 Yr	FHB %Sev 2 Yr	FHB Index 2 Yr	DON ppm 2 Yr	Preharv Sprout 2 Yr	Height cm 2 Yr	Winter Surv 2 Yr		
	4 Year		3 Year		2 Year		4 Yr lb/lb	2 Yr lb/lb	0-9 4 Yr	0-9 2 Yr										
	kg/h	b/a	kg/h	b/a	kg/h	b/a														
1 Houser	4865	72	5052	75	4605	68	69.1	54.4	67.2	52.9	5.0	7.1	5/31	NA	NA	NA	NA	5.4	112	96
2 Caledonia	5019	75	5377	80	5016	75	69.2	54.5	67.6	53.2	2.0	2.5	5/30	82	46	39.5	45.1	6.1	97	99
3 Cayuga	4422	66	4727	70	4595	68	73.4	57.8	73.5	57.8	4.5	5.8	6/2	NA	NA	NA	NA	2.1	119	97
4 Medina	4958	74	5333	79	4996	74	70.7	55.7	70.9	55.9	3.0	2.8	5/31	59	28	15.5	19.3	2.8	106	99
5 NY99056-161	5177	77	5404	80	5366	80	70.7	55.7	69.5	54.7	2.0	3.1	5/31	34	26	9.6	27.1	4.5	98	98
6 NY11014-9-25-1319	5215	78	5489	82	5158	77	71.2	56.0	70.6	55.6	3.2	4.5	5/31	61	29	19.2	18.0	3.9	104	99
7 NY12006-2-1-7	5075	75	5333	79	5002	74	71.7	56.4	71.7	56.4	2.9	3.7	6/2	56	26	22.5	15.7	2.2	103	98
8 NY12457-1-8-02	5152	77	5406	80	5162	77	70.4	55.4	69.8	55.0	3.8	5.8	5/30	55	22	13.1	22.3	3.2	94	98
9 NY12397-1-4-13	5082	76	5305	79	5067	75	71.8	56.6	72.0	56.7	3.4	4.7	5/28	85	24	20.6	23.2	2.7	85	98
10 NY12398-2-16-07-03W-1580			5435	81	5355	80			73.4	57.8		2.2	5/31	61	21	14.4	26.2	2.8	86	98
11 NY12512-1-6-05-1542			5578	83	5414	81			70.3	55.3		3.5	6/1	62	21	13.4		4.4	97	98
12 NY12397-1-4-13-1512					4931	73			71.6	56.4		6.5	5/29	84	28	24.3		3.0	83	94
13 NY12007-2-4-13-1381					5162	77			70.7	55.7		2.3	5/30	36	16	6.0		4.1	100	95
14 NY12311-1-30-10-1452					5172	77			70.1	55.2		3.2	5/30	58	27	16.6		3.9	93	90
15 NY12508-1-7-15-1536					5037	75			71.3	56.1		7.0	5/28	84	21	18.3		3.3	89	95

M.E. Sorrells, D. Benscher, J. Schiller, Jenna Rice - Department of Plant Breeding & Genetics, Cornell University

2022 Red Winter Wheat Summaries - Cornell University

Entry	Grain Yield (kg/h)						Test		Lodg.	Head	Preharvest			Winter		FHB			Powd Mild		
	Regional Locations			Locations			Weight				Date	Sprouting	Height	Surv.	Incid.	Sev.	Index	Rank			
	lth-Cald	lth-Sny	SenCo	LivCo	Mean	Rank	kg/hl	Rank													
1	Erie	6817	5992	3903	7738	6113	18	76.6	9	0.0	5/30	2.6	22	94	95	91	48	44	28	1.5	
2	Pioneer 25R40	6733	5598	4223	8988	6385	6	74.9	23	3.3	5/27	3.1	25	90	95	99	26	26	14	3.0	
3	NY11013-10-15-1312	4985	5563	4002	7412	5491	29	75.9	13	1.0	5/30	0.7	6	99	88	70	33	23	9	2.5	
4	NY12299-1-3-14	5830	5258	4101	7307	5624	27	75.4	21	3.3	5/29	2.6	23	81	93	73	27	19	5	4.0	
5	Liberty 5658	7237	4725	4374	7929	6066	19	76.8	7	1.0	5/26	1.7	15	88	90	99	31	30	21	3.0	
6	NY12300-1-6-07-1436	5807	4967	3560	8130	5616	28	77.5	4	2.3	5/29	3.1	24	86	95	89	35	31	23	5.0	
7	NY12325-1-10-12-1476	6894	5697	4225	8080	6224	12	75.8	15	0.0	5/31	0.9	8	94	100	65	30	19	6	1.5	
8	SW65SR	7081	5770	4415	7724	6248	11	74.7	26	2.3	5/29	1.5	14	85	93	96	27	26	16	2.5	
9	SW51SR	5843	5399	3897	8093	5808	25	75.4	22	4.3	5/28	0.8	7	86	95	80	29	23	8	4.5	
10	Revere 2169	7451	4766	4248	8328	6198	14	74.8	24	2.3	5/28	0.9	9	85	95	98	24	23	11	1.5	
11	Revere 2148	6252	4648	4210	7794	5726	26	75.4	19	6.0	5/27	0.2	2	86	95	94	44	41	27	4.5	
12	NY12325-1-10-18-1477	6589	5864	4250	8118	6205	13	76.6	8	0.0	5/31	1	10	93	100	63	37	23	10	0.0	
13	NY12351-1-14-20-1484	6493	5859	4340	8337	6257	10	75.6	17	1.0	5/29	2.5	21	88	98	85	52	44	29	3.0	
14	OH12-317-57-1413	7476	5680	3715	8466	6334	8	77.6	1	1.0	5/28	0.4	4	93	93	86	22	19	3	1.5	
15	NY12302-2-14-01-1441	5647	6434	3800	7971	5963	23	75.4	20	0.0	6/1	1.7	16	89	98	53	22	12	2	3.5	
16	NYIL04-8445R-1654	6071	5695	4509	8291	6142	16	77.0	6	3.0	5/26	2.4	20	90	98	83	24	20	7	3.0	
17	NY12308-1-18-09-1449	5789	5802	4387	7744	5931	24	75.5	18	0.3	5/30	0.2	3	96	95	86	31	26	17	4.5	
18	NY12302-2-14-08-1442	5861	6152	3940	8013	5992	20	76.0	12	0.0	6/1	2.3	19	94	98	31	13	4	1	4.0	
19	Revere 2266	7064	5966	4711	8172	6478	2	73.3	29	3.3	5/29	3.2	26	84	93	NA	NA	NA	NA	1.0	
20	Revere 2277	7168	6432	4699	7371	6418	4	75.7	16	1.0	5/29	0.6	5	79	100	98	40	39	26	0.5	
21	KWS384	7171	5570	4641	8407	6447	3	75.9	14	2.7	5/27	2	18	88	98	79	24	19	4	1.5	
22	KWS411	6524	5998	4529	7552	6151	15	77.6	2	2.3	5/27	3.5	27	84	98	94	26	24	12	0.5	
23	KWS415	6686	5995	4703	7728	6278	9	73.5	28	3.7	5/30	0.1	1	86	93	96	30	29	19	2.5	
24	16VDH-SRW03-023	7353	5496	4377	8250	6369	7	76.3	11	3.0	5/27	4.5	30	88	95	95	37	35	24	2.0	
25	X11-0357-24-13-5	5636	5206	3150	7536	5382	30	77.5	3	2.3	5/30	1	11	86	95	85	30	26	15	4.0	
26	NY15116-01-06-01-1804	6762	5191	3892	8041	5971	22	74.1	27	3.3	5/26	3.9	28	84	93	99	38	37	25	1.5	
27	Pioneer 25R64	7239	6171	4279	8589	6570	1	72.9	30	4.0	5/30	1.1	12	81	93	89	28	24	13	4.0	
28	Blaze	6606	5716	4087	8097	6127	17	74.7	25	3.7	5/29	4.3	29	90	90	85	36	30	22	0.5	
29	Hilliard	7518	5481	4477	8177	6413	5	76.3	10	2.3	5/28	1.9	17	90	88	96	31	29	20	0.0	
30	VA17W-75	6486	5455	4129	7841	5978	21	77.3	5	3.3	5/26	1.2	13	90	98	95	30	28	18	0.0	
	Mean	6569	5618	4192	8008	6097		75.7		2.2	5/28	1.2		88	95	84	31	27		2.4	
	CV	7.3	4.4	8.0	5.0																

Cumulative Summary

Entry	Grain Yield						Test Wt(2Yr)	Lodg.	Height	Head	Winter	Sprout	wssmv	FHB Incid.	FHB Sev.	FHB Index	DON										
	6 Year		3 Year		2 Year													2 Yr	2 Yr	2 Yr	2 Yr	2 Yr	2 Yr	2 Yr	2 Yr	2 Yr	2 Yr
	kg/h	b/a	kg/h	b/a	kg/h	b/a																					
1	Erie	5890	88	5825	87	5714	85	72.3	56.5	4.0	96	6/1	97	3.2	1.7	68	33	26	10.7								
2	Pioneer 25R40	6375	95	6147	91	6086	91	72.7	56.8	2.9	86	5/30	97	2.8	7.0	91	24	22	36.9								
3	NY11013-10-15-1312	5824	87	5533	82	5326	79	72.7	56.8	5.0	102	6/2	93	1.0	1.3	51	24	14	10.6								
4	NY12299-1-3-14			5708	85	5543	82	71.7	56.0	5.4	82	6/2	96	2.1	1.3	60	21	14	12.9								
5	Liberty 5658			5650	84	5552	83	73.8	57.7	2.0	88	5/31	94	2.2	2.7	94	24	23	22.4								
6	NY12300-1-6-07-1436			5851	87	5642	84	75.1	58.7	4.9	85	6/2	97	2.2	1.7	77	29	23	19.1								
7	NY12325-1-10-12-1476			5895	88	5816	86	73.1	57.1	1.3	96	6/5	99	1.2	0.7	54	31	17	14.0								
8	SW65SR					6163	92	71.8	56.1	4.4	86	5/31	95	1.4		93	23	21									
9	SW51SR					5563	83	72.9	57.0	5.7	88	5/31	96	0.6		68	20	15									
10	Revere 2169					6156	92	72.4	56.5	2.2	85	5/31	97	0.7		89	19	17									
11	Revere 2148					5676	84	72.8	56.9	6.3	87	5/30	97	0.3		81	28	25									
12	NY12325-1-10-18-1477					5899	88	74.1	57.9	3.0	96	6/3	98	1.2		54	35	19									
13	NY12351-1-14-20-1484					6083	90	73.1	57.1	3.8	88	6/1	98	2.9		66	42	29									
14	OH12-317-57-1413					6015	89	75.0	58.6	3.3	94	5/31	95	0.4		84	19	16									
15	NY12302-2-14-01-1441					5749	85	72.6	56.7	2.0	90	6/3	98	1.0		46	15	8									
16	NYIL04-8445R-1654					5931	88	74.3	58.1	5.5	92	5/29	98	1.5		82	22	18									
17	NY12308-1-18-09-1449					5678	82	73.0	57.1	4.2	99	6/2	96	0.2		65	27	19									
18	NY12302-2-14-08-1442					5643	84	72.5	56.7	3.3	96	6/3	99	1.6		30	12	4									

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2022 Winter Malting Barley Regional Trial Summary - Cornell University

Entry	Row	Grain Yield (kg/h)								Test Weight		Lodg.		Height		Head		Wint	FHB	FHB	FHB	FHB	PHS	Spot	Kerne	on	Malt Barley				Beta	All Malt			
		Regional Locations				kg/hl	Rank	0-9	cm	Date	%	%	%	(%)	Rank	ppm	0-9	0-9	0-9	Blotch	Scald	Wt	6/64"	Ext	Protein	DP	Glucar	FAN	Qual						
		lth-Sny	lth-Hel	SenCo	LivCo	Mean	b/a	Rank	kg/hl	Rank	0-9	cm	Date	%	%	%	(%)	Rank	ppm	0-9	0-9	0-9	(mg)	(%)	(%)	(%)	ASBC	ppm	ppm	ppm	ppm				
1	Satum	6	5348	5003	4022	8620	5748	107	1	59.2	36	1.8	62	5/24	90	38	21	7	17	NA	0.1	0.7	3.7	NA	NA	NA	NA	NA	NA	NA	NA	NA			
2	KWS Scala	2	3471	5001	3570	7238	4820	90	15	60.2	34	3.8	59	5/27	94	67	20	13	29		2.6	5.8	0.7												
3	SY Tepee (209-66)	2	4030	4469	3494	7709	4925	92	14	62.3	26	3.2	67	5/27	93	63	15	11	24		0.8	2.0	2.0												
4	Lightning (Fac)	2	4100	3221	3912	7944	4794	89	17	65.1	5	1.2	60	5/25	92	37	13	5	5		0.0	2.0	3.8												
5	LCS Calypso	2	4320	4299	3874	8050	5136	95	10	63.2	18	1.8	73	5/24	89	23	11	3	1		0.5	1.8	2.5												
6	LCS Violetta	2	4258	4629	3305	7709	4975	92	13	64.4	7	2.3	63	5/23	89	30	23	6	12		0.7	0.2	2.3												
7	DH131738 (Fac)	2	3620	4138	2420	7598	4444	83	27	63.3	16	0.8	58	5/24	90	40	28	13	28		0.2	0.8	3.3												
8	DH130935 (Fac)	2	3818	3441	3278	8016	4638	86	24	63.7	14	0.2	63	5/23	92	27	11	3	3		1.3	1.7	2.5												
9	Buck	6	2911	2301	2923	6147	3571	66	35	74.0	1	4.2	61	5/28	70	67	23	15	30		0.0	2.7	1.0												
10	10.1618	6	2436	1736	3324	6481	3494	65	36	70.2	2	3.3	56	5/25	75	80	37	30	35		0.2	1.5	2.0												
11	BC Clemetine	2	4862	5717	2958	8513	5513	102	4	63.9	11	0.0	65	5/25	87	63	13	8	20		1.5	2.2	1.7												
12	BC Fay	2	4891	5290	3620	8552	5588	104	3	61.1	31	2.8	64	5/26	95	70	23	16	31		0.2	0.8	3.0												
13	DH141132	2	5065	5883	3705	7977	5658	105	2	62.4	24	2.2	69	5/28	95	90	22	20	34		1.9	0.2	1.8												
14	DH133535	2	3439	2718	2724	5879	3690	69	34	65.7	3	4.0	65	5/30	71	93	32	30	36		0.2	1.2	2.7												
15	BS814-133	2	4005	3619	3150	7963	4684	87	23	63.7	13	1.2	64	5/26	85	47	11	5	7		0.5	1.8	1.3												
16	BS811-34	2	4502	5875	3602	7537	5379	100	6	63.1	20	3.2	70	5/27	93	52	11	6	11		0.0	1.5	0.8												
17	BS813-112	2	4430	5792	3830	7675	5432	101	5	64.2	9	2.8	69	5/27	93	82	20	17	32		0.0	0.3	0.3												
18	BS812-52	2	4465	4126	3473	8106	5042	94	11	60.5	32	2.5	67	5/26	85	37	14	6	8		0.1	1.5	2.2												
19	BS616-61	2	3872	3235	3789	7607	4626	86	25	63.8	12	3.2	57	5/24	90	62	20	12	26		0.4	5.2	1.0												
20	BS710-42	2	4234	4781	3409	7718	5036	94	12	62.1	28	2.7	61	5/26	92	47	12	6	10		1.3	1.0	1.5												
21	BS814-121	2	4185	4118	4099	8751	5288	98	8	60.3	33	1.5	61	5/25	93	55	14	7	16		0.5	1.0	1.5												
22	BS812-80	2	4065	5083	2892	7139	4795	89	16	63.0	22	3.8	68	5/28	87	67	11	7	18		1.2	1.3	0.7												
23	BS813-98	2	4092	3485	2968	7808	4588	85	26	65.0	6	3.2	62	5/25	87	45	15	7	15		0.4	1.2	1.3												
24	BS814-124	2	4112	3604	3406	7852	4744	88	20	65.3	4	1.5	60	5/24	88	52	17	9	23		0.6	2.0	1.5												
25	BS613-9	2	4164	3363	3585	7787	4725	88	21	63.3	17	3.3	64	5/26	85	35	8	3	2		0.5	1.7	1.8												
26	BS813-117	2	3987	3761	3566	7691	4751	88	19	61.2	30	2.3	65	5/29	86	55	12	7	14		0.3	0.5	2.7												
27	BS811-43	2	4594	5747	3777	7362	5370	100	7	63.2	19	4.5	64	5/28	94	77	16	13	27		0.9	1.5	0.5												
28	BS614-23	2	3282	3095	3241	6678	4074	76	33	62.2	27	4.7	59	5/28	82	67	12	8	19		1.3	3.0	1.7												
29	BS908-14	2	3418	3221	3233	7811	4421	82	29	64.4	8	1.7	58	5/25	90	57	18	11	25		0.2	1.7	1.3												
30	BS812-57	2	4090	3457	3514	8109	4793	89	18	64.0	10	1.0	64	5/27	88	43	13	6	9		0.1	0.8	2.0												
31	BS613-14	2	3639	2969	3231	7689	4382	81	30	61.8	29	2.0	57	5/26	83	43	14	6	13		1.0	1.8	1.3												
32	BS812-48	2	3930	5702	3409	7537	5145	96	9	63.4	15	4.2	69	5/29	90	92	21	19	33		1.0	0.5	1.5												
33	BS616-78	2	3348	2809	3267	7504	4232	79	31	62.3	25	2.2	55	5/27	79	38	10	4	4		0.4	1.2	2.8												
34	BS613-12	2	3847	3393	3509	8123	4718	88	22	62.7	23	1.8	54	5/25	86	52	15	8	22		0.2	0.3	3.2												
35	BS713-94	2	3481	3399	2975	7909	4441	83	28	63.0	21	2.3	53	5/25	87	50	16	8	21		1.8	3.7	0.5												
36	BS912-138	2	3340	2743	2784	7498	4091	76	32	60.0	35	3.7	55	5/25	85	32	15	5	6		1.8	0.5	5.8												
Mean			3990	4034	3384	7675	4771	89		63.4		2.5	62	5/26	88	55	17	10		0.7	1.6	2.0													
CV			12.1	9.5	13.6	16.4																													
* feed barley		**Naked Barley																																	
Cumulative Summary																																			
Entry	Row	Grain Yield						Test		Test		Lodg		Height		Head		Wint	FHB	FHB	FHB	FHB	PHS	Spot	Kerne				Malt Barley				Beta	All Malt	
		6 Year		5 Year		2 Year		Wt(5yr)	Wt(2yr)	0-9	cm	Date	Surv	%	%	%	(%)	Rank	ppm	0-9	0-9	0-9	Blotch	Scald	Wt	6/64"	Ext	Protein	DP	Glucar	FAN	Qual			
		kg/h	b/a	kg/h	b/a	kg/h	b/a	kg/hl	lb/b	kg/hl	lb/b	2 Yr	2 Yr	2 Yr	2 Yr	2 Yr	2 Yr	2 Yr	1 Yr	2 Yr	2 Yr	2 Yr	2 Yr	2 Yr	2 Yr	2 Yr	2 Yr	2 Yr	2 Yr	2 Yr	2 Yr	2 Yr	2 Yr		
1	Satum	6	5736	107	5742	107	5338	99	58.8	46.0	58.0	45.3	2.8	78	5/24	92	61	21	13	15.0	0.1	2.5	0.5	37	97	79	8.9	90	536	125	NA				
2	KWS Scala	2	4461	83	4548	85	4218	78	59.7	46.7	59.0	46.1	2.9	72	5/26	92	74	21	15	11.1	1.6	0.3	4.7	41	100	84	8.9	117	47	166	44				
3	SY Tepee (209-66)	2	4767	89	4799	89	4452	83	61.6	48.1	60.4	47.2	2.7	79	5/26	93	72	17	13	12.1	0.6	2.0	1.1	38	98	83	8.5	123	32	180	40				
4	Lightning (Fac)	2	4691	87	4677	87	4197	78	63.8	49.9	62.7	49.0	1.8	78	5/24	93	57	13	8	8.0	0.0	3.1	1.0	38	99	82	10.0	119	25	210	44				
5	LCS Calypso	2			5093	95	4591	85	62.1	48.5	60.7	47.4	2.4	87	5/24	90	39	11	4	6.3	0.4	2.3	0.9	39	98	83	9.7	116	162	153	38				
6	LCS Violetta	2			4738	88	4621	86	63.0	49.2	62.4	48.7	2.7	79	5/23	92	48	19	8	11.7	0.5	1.3	0.4	39	99	83	9.4	141	88	174	40				
7	DH131738 (Fac)	2			4821	90	4423	82	63.4	49.5	62.6	48.9	1.2	76	5/23	92	50	25	13	11.9	0.2	2.7	0.7	41	100	83	9.7	109	72	158	48				
8	DH130935 (Fac)	2			4816	90	4341	81	63.0	49.2	61.6	48.1	1.1	81	5/22	92	48	14	8	10.1	1.4	1.6	1.1	40	99	82	9.1	114	140	148	40				
9	Buck	6			3746	70	3126	58	71.4	55.7	68.8	53.7	4.9	78	5/27	75	83	40	37	23.6	0.0	1.3	1.5	32	73	87	9.1	60	662	131	40				
10	10.1618	6																																	

2022 Hybrid Winter Rye Regional Trial - Cornell University

Entry	Grain Yield (kg/h)							Test Weight kg/hl	Lodging Score 0-9	Height cm	Winter Surv. %	Head Date	
	Regional Locations						Rank						
	Ith-Cald		Ith-Sny		Mean	Rank							
1	Brasetto	7988	6	7339	2	7664	5	72.9	5	3.7	142	80	5/21
2	Danko	7314	7	6055	7	6684	7	73.6	1	3.7	153	79	5/20
3	AC Hazlet	7202	8	5521	8	6361	8	73.5	2	4.3	160	77	5/21
4	Erie (wheat ck)	3242	10	4916	9	4079	10	72.9	6	8.0	94	97	5/22
5	KWS Serafino	9360	3	7184	4	8272	3	73.0	4	4.7	140	83	5/22
6	KWS Tayo	10153	1	6921	5	8537	2	72.5	7	2.0	141	84	5/21
7	KWS Receptor	10023	2	7729	1	8876	1	73.2	3	3.7	143	87	5/22
8	KWS SH-03	8283	5	6604	6	7443	6	70.8	10	2.0	122	85	5/20
9	KWS SH-05	8421	4	7218	3	7819	4	71.7	9	2.7	128	94	5/19
10	Spooner	5823	9	4469	10	5146	9	72.0	8	4.0	161	88	5/19
	Mean	7781		6396		7088		72.6		3.9	138	85	
	CV	10.6		9.4									

Entry	Grain Yield							Test Weight		Lodging 0-9 2 Yr	Head Date 2 Yr	Height cm 2 Yr	Winter Surv. 2 Yr
	8 Year		5 Year		2 Year		2 Year						
	kg/h	b/a	kg/h	b/a	kg/h	b/a	kg/hl	lb/b					
1	Brasetto (200 k/m2)	5928	94	5658	90	6465	103	69.5	55.6	3.7	5/22	140	88
2	Danko	4830	77	4775	76	5381	86	70.6	56.5	3.1	5/20	157	83
3	AC Hazlet	4396	70	4274	68	4877	78	69.9	55.9	4.1	5/22	159	83
4	Erie (wheat ck)	4385	70	4060	65	3659	58	67.7	54.2	5.0	5/28	96	97
5	KWS Serafino			6062	90	6972	104	69.8	55.9	3.5	5/23	140	89
6	KWS-H176 (Tayo)			6531	104	7247	115	69.4	55.5	2.1	5/22	143	88
7	KWS Receptor					7289	116	70.1	56.1	3.8	5/23	143	90

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2022 Spring Malting Barley Regional Summary - Cornell University

Entry	Row#	Class	Yield (kg/h)				Test				PreHarv			FHB	FHB	FHB	Kernel			Malt Barley			Beta	All Malt					
			Regional Locations		Weight		Logd	Head	Height	Sprout		Inc	Sev	Index	DON	Wt.	6/64	Extract	Protein	DP	Glucan	FAN	Quality						
			lth-Sth	lth-Hel	SenCo	SteCo	Mean	Rank	kg/h	Rank	0-9	Date	cm	0-9	Rank	%	%	%	Rank	ppm	(mg)	%	%	%	ASBC	ppm	ppm	Score	
1	Quest	6	Malt	3180	N	4212	3721	3704	21	61.4	21	N	6/30	56	0.4	1	13	7	1.0	1	NA	NA	NA	NA	NA	NA	NA	NA	
2	ND Genesis	2	Malt	3096	O	4455	3465	3672	23	63.6	7	O	7/6	52	5.1	27	50	9	4.6	13									
3	AAC Svernov	2	Malt	3339		4831	3883	4017	6	62.0	13	N	7/8	55	4.8	26	32	6	2.0	4									
4	Newdale	2	Malt	2770	D	4406	3898	3691	22	61.5	19	E	7/9	49	4.5	25	60	14	8.1	19									
5	Explorer	2	Malt	3266	A	4541	4169	3992	9	61.7	18		7/4	47	2.1	15	53	11	6.3	18									
6	Esma	2	Malt	3579	T	4341	4131	4017	7	61.8	16		7/7	48	2.5	17	67	8	5.2	17									
7	Eifel	2	Malt	3316	A	4655	4227	4066	4	60.4	24		7/7	51	2.2	16	78	12	9.7	26									
8	CU127	2	Malt	2857		3881	4225	3654	26	61.8	17		7/5	52	1.2	5	35	8	3.0	6									
9	CU198	2	Malt	3143		4499	4426	4023	5	64.5	3		7/7	55	3.4	21	47	7	3.5	7									
10	CU36	2	Malt	3056		4974	3922	3984	10	61.8	15		7/6	49	2.1	14	43	10	4.8	16									
11	CU22	2	Malt	3073		4642	4056	3924	13	61.5	20		7/8	60	1.9	11	75	15	11.0	27									
12	CU75	2	Malt	3014		5096	4093	4068	3	61.1	23		7/7	55	2.9	19	67	13	8.6	21									
13	CU29	2	Malt	3069		4875	4550	4165	1	62.7	11		7/6	54	4.1	23	72	14	9.6	25									
14	Excelsior Gold	2	Malt	2944		4152	3491	3529	27	62.2	10		7/1	55	1.6	10	43	10	4.2	10									
15	CU4	2	Malt	3115		4040	3813	3656	25	64.7	2		7/7	55	2.0	12	38	10	3.6	8									
16	CU20	2	Malt	3283		4791	3821	3965	11	64.1	6		7/6	53	1.0	3	32	9	2.8	5									
17	CU142	2	Malt	2974		4323	4027	3775	19	63.2	9		7/6	52	1.1	4	28	6	1.8	2									
18	CU110	2	Malt	2957		4252	4094	3768	20	64.3	4		7/5	56	0.9	2	23	9	2.0	3									
19	CU54	2	Malt	2901		4403	3678	3661	24	64.9	1		7/7	51	1.4	6	45	10	4.4	12									
20	CU193	2	Malt	2930		4385	4172	3829	16	64.2	5		7/6	55	1.5	9	47	10	4.7	14									
21	CU235	2	Malt	3208		4447	4115	3924	14	61.1	22		7/7	56	3.9	22	47	9	3.9	9									
22	CU143	2	Malt	2838		4431	4147	3805	17	62.7	12		7/7	52	1.4	7	63	13	8.2	20									
23	CU162	2	Malt	3007		4386	4391	3928	12	63.6	8		7/6	52	4.2	24	42	10	4.3	11									
24	CU107	2	Malt	3410		4490	4137	4012	8	61.9	14		7/7	52	2.9	18	52	9	4.7	15									
25	BC Ellinor	2	Malt	3019		4288	4083	3797	18	59.1	27		7/7	53	2.0	13	75	13	9.6	24									
26	BC Leandra	2	Malt	3489		4502	4218	4069	2	59.2	26		7/9	45	1.4	8	75	12	8.8	22									
27	BC Lexv	2	Malt	3151		4340	4197	3896	15	59.4	25		7/8	50	3.3	20	78	11	9.2	23									
Mean					3110	4468	4043	3874		62.3			7/6	53	2.4		51	10	5.5										
CV					7.9		7.7	6.8																					
Cumulative Summary																													
Entry	Row#	Class	Grain Yield				Test Weight				Head	Logd	Ht.	PreHarv			FHB	FHB	FHB	DON	Kernel	on	Malt	Barley	DP	Glucan	FAN	All Malt	
			4 Years		2 Years		2 Years		Date	0-9	cm	0-9	%	%	%	ppm	(mg)	%	%	%	ASBC	ppm	ppm	ppm	ppm	ppm	ppm	Score	
			kg/h	b/a	kg/h	b/a	kg/h	lbs/b	2 Yr	2 Yr	2 Yr	2 Yr	2 Yr	2 Yr	2 Yr	2 Yr	2 Yr	2 Yr	2 Yr	2 Yr	2 Yr	2 Yr	2 Yr	2 Yr	2 Yr	2 Yr	2 Yr	2 Yr	
1	Quest	6	Malt	3132	58	3191	59	59.3	46.4	6/20	1.5	63	0.7	33	10	3.7	3.0	34.1	95	82	10.4	108	262	241	NA				
2	ND Genesis	2	Malt	3251	60	3343	62	60.3	47.1	6/23	1.2	59	3.8	68	13	9.7	3.9	41.5	98	82	9.5	62	125	201	33				
3	AAC Svernov	2	Malt	3639	68	3731	69	59.2	46.3	6/25	0.5	59	4.6	45	10	5.2	6.2	40.3	98	84	9.1	70	97	248	32				
4	Newdale	2	Malt	3425	64	3470	65	58.9	46.0	6/27	0.9	54	3.7	55	18	11.7	4.0	37.0	94	83	9.2	72	64	217	33				
5	Explorer	2	Malt	3447	64	3701	69	59.7	46.6	6/23	0.8	50	1.1	46	11	5.2	4.0	41.9	98	82	9.2	67	48	221	36				
6	Esma	2	Malt	3608	67	3775	70	59.7	46.7	6/24	0.3	51	2.0	57	9	4.8	3.7	43.7	98	83	9.3	68	35	231	36				
7	Eifel	2	Malt	3536	66	3684	68	58.0	45.3	6/26	0.8	52	2.0	73	12	9.0	5.3	41.7	98	84	9.4	62	141	225	31				
8	CU127	2	Malt	3380	63	3398	63	59.5	46.5	6/24	1.2	57	1.3	45	9	4.8	4.5	40.1	93	83	8.6	57	117	229	30				
9	CU198	2	Malt	3596	67	3561	66	61.8	48.3	6/24	1.0	61	3.2	42	10	4.0	3.8	42.6	98	83	9.6	68	109	211	36				
10	CU36	2	Malt	3571	66	3571	66	58.6	45.8	6/25	0.8	59	2.0	63	16	11.2	4.5	39.8	98	82.2	9.1	79	109	207	34				
11	CU22	2	Malt	3634	68	3634	68	58.8	45.9	6/26	0.8	65	2.0	71	15	10.6	5.2	39.2	96	81.7	9.3	73	118	223	29				
12	CU75	2	Malt	3811	71	3811	71	58.5	45.7	6/25	0.2	62	2.2	65	13	9.2	4.7	39.8	97	80.8	9.1	68	278	195	24				
13	CU29	2	Malt	3675	68	3675	68	59.4	46.4	6/25	0.8	58	2.8	69	12	8.6	1.7	39.9	98	83.4	9.1	57	358	200	29				
14	Excelsior Gold	2	Malt	3231	60	3231	60	60.7	47.4	6/21	0.0	62	1.7	50	14	7.3	5.8	44.2	99	82.7	10.1	80	243	237	36				
15	CU4	2	Malt	3484	65	3484	65	61.9	48.3	6/25	0.5	60	2.1	47	13	5.8	4.2	38.0	97	81.5	9.3	96	125	202	31				
16	CU20	2	Malt	3643	68	3643	68	61.4	48.0	6/24	1.1	59	1.4	43	10	4.5	3.1	40.1	96	81.3	9.6	97	122	214	33				
17	CU142	2	Malt	3528	66	3528	66	60.5	47.2	6/26	0.5	60	1.2	57	12	8.1	7.7	42.7	97	82.3	10.0	71	186	207	33				
18	CU110	2	Malt	3535	66	3535	66	60.9	47.6	6/23	1.2	61	1.5	43	10	4.6	2.8	38.4	95	81.8	9.6	87	157	212	31				
19	CU54	2	Malt	3516	65	3516	65	61.9	48.4	6/26	0.2	56	2.0	53	14	7.6	4.7	38.0	96	82.3	9.4	91	163	174	38				
20	CU193	2	Malt	3642	68	3642	68	61.2	47.8	6/25	1.4	61	1.4	58	15	9.1	3.5	38.3	97	82.3	9.1	78	114	211	34				
21	CU235	2	Malt	3554	66	3554	66	58.3	45.6	6/25	1.3	61	3.8	53	12	7.2	6.5	43.8	99	81.9	9.2	90	79	233	40				
22	CU143	2	Malt	3545	66	3545	66	59.7	46.7	6/27	0.7	62	0.9	73	17	13.2	5.1	41.9	95	81.9	9.3	85	184	224	27				
23	CU162	2	Malt	3751	70	3751	70	60.7	47.4	6/25	0.5	56	3.6	50	12	6.5	3.0	40.9	98	83.1	8.9	55	200	198	33				
24	CU107	2	Malt	3883	72	3883	72	59.7	46.6	6/25	0.7	59	3.1	58	13	9.7	2.3	38.1	95	81.7	10.0	111	99	197	40				
25	BC Ellinor	2	Malt	3606	67	3606	67	56.5	44.1	6/25	1.0	56	1.4	84	22	19.4	12.2	38.1	98	82.7	9.4	55	94	226	33				
26	BC Leandra	2	Malt	3588	67	3588	67	56.0	43.8	6/27	1.1	48	1.3	64	12	7.5	4.7	39.2	96	81.4	8.6	64	36	205	33				
27	BC Lexv	2	Malt	3596	67	3596	67	57.0	44.5	6/27	0.4	53	2.9	73	15	11.6													

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Funding Sources:

2022 Spring Oat Regional and Cumulative Summaries - Cornell University

Entry	Grain Yield (kg/h)						Test Wt (kg/hl)			Ht cm	Head Date			
	Ith-Sny	Ith-Hel	SenCo.	SteCo.	Mean	Rank	Mean	Rank	Lodging					
1	OGLE	3922	1965	3255	2746	2972	10	44.1	25	3.1	61	6/30		
2	NEWDAK	3987	1997	3817	2804	3151	8	46.6	14	5.8	65	6/26		
3	Corral	3233	1624	3585	2936	2844	13	44.8	22	4.4	50	6/30		
4	Steuben	3514	1763	3447	3042	2942	12	45.0	20	5.6	62	7/4		
5	Buff	2627	1321	3023	2167	2285	15	46.9	13	6.3	59	6/28		
6	IL12 - 9020	4116	2061	3886	2887	3237	6	52.6	7	3.9	59	6/27		
7	SD150015	4241	2122	4334	2609	3326	2	45.6	17	5.3	59	7/1		
8	SD140741	3638	1825	4183	2743	3097	9	48.0	10	1.3	60	6/30		
9	ND150797	4576	2289	3575	2805	3311	3	43.3	27	5.2	65	7/1		
10	BCO2004	4214	2109	3948	2949	3305	4	47.4	11	5.5	45	7/1		
11	BCO2005	4972	2486	4020	2587	3516	1	44.7	23	5.1	66	7/4		
12	OA1456-2N	1991	1004	2397	2287	1920	18	49.2	8	2.7	57	7/4		
13	Navaro	2299	1158	2707	2106	2068	17	57.3	6	0.6	62	7/6		
14	Casino	1894	957	2215	2159	1806	19	59.5	3	1.5	65	7/5		
15	14ANS01	2613	1315	2639	2038	2151	16	59.6	2	2.2	62	7/6		
16	15ANS06	1488	754	2394	1811	1611	20	60.6	1	1.6	68	7/6		
17	BCO2101	3284	1649	3337	2957	2807	14	43.2	28	5.1	67	7/5		
18	BCO2102	3696	1853	3667	2593	2952	11	44.2	24	5.5	69	7/2		
19	SD170777	4183	2094	4033	2737	3262	5	43.1	29	2.2	60	7/2		
20	BCO2103	3927	1968	4019	2754	3167	7	45.0	19	4.1	52	7/7		
Mean		3421	1716	3424	2586	2787		48.5		3.8	60	7/2		
CV		10.9	12.1	6.8	7.8									
Highlighted = Naked oats														
Cumulative Summary														
Entry	Grain Yield						Test Weight		Head Date	Lodging 0-9	Height cm			
	5 Years		4 Years		3 Years		2 Years							
	kg/h	b/a	kg/h	b/a	kg/h	b/a	kg/h	b/a	kg/hl	lbs/b	2 Yr	2 Yr		
1	OGLE	2390	67	2513	70	2633	73	2449	68	45.8	35.8	6/25	1.5	61
2	NEWDAK	2465	69	2574	72	2528	70	2447	68	48.5	37.9	6/23	4.6	65
3	Corral	2456	68	2537	71	2575	72	2363	66	46.8	36.6	6/26	3.5	50
4	Steuben	2551	71	2494	70	2579	72	2242	63	47.3	37.0	6/30	4.8	62
5	Buff	2018	56	2066	58	2076	58	2005	56	56.7	44.3	6/25	2.2	59
6	IL12 - 9020	2840	79	2864	80	2811	78	2680	75	47.4	37.0	6/23	4.6	59
7	SD150015			2947	82	2914	81	2800	78	50.4	39.4	6/28	0.7	59
8	SD140741			2774	77	2724	76	2593	72	49.2	38.4	6/26	1.6	60
9	ND150797					2797	78	2602	73	49.1	38.4	6/28	3.7	65
10	BCO2004					2840	79	2572	72	49.2	38.4	6/27	2.5	45
11	BCO2005					3062	85	2898	81	47.4	37.0	6/30	1.5	66
12	OA1456-2N					1743	49	1561	44	53.9	42.1	6/30	2.6	57
13	Navaro					1873	52	1701	47	57.5	44.9	7/1	2.3	62
14	Casino					1626	45	1442	40	60.8	47.5	7/1	0.8	65
15	14ANS01					1869	52	1709	48	61.9	48.4	7/1	1.6	62
16	15ANS06					1607	45	1466	41	62.2	48.6	6/30	1.8	68
17	BCO2101							2304	64	43.8	34.2	6/30	2.5	
18	BCO2102							2379	66	46.2	36.1	6/28	4.5	
19	SD170777							2705	75	47.9	37.4	6/28	2.0	

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