

2022 Crop Year Breeders' Submissions

Lab No.	Location	Variety or Selection	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agtron)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (*ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)	Adjunct Quality Score	All Malt Quality Score
1	Logan, UT	UT10201	6	27.6	26.6	72	76.5	n.d.	3	14.7	5.10	35.8	249	52.8	249	135	17	N/A
2	Logan, UT	WB11135-1	6	31.9	66.9	76	78.1	n.d.	3	14.3	5.16	37.2	208	53.6	285	137	25	N/A
3	Logan, UT	UTWB11241-4	2	43.0	90.7	73	76.9	n.d.	3	15.9	5.56	36.3	188	56.1	353	160	31	20
4	Logan, UT	UTWB11519-2	2	41.6	94.2	97	75.9	2.7	1	15.0	5.04	34.2	180	54.5	555	135	32	17
5	Logan, UT	UTWB11523-2	2	42.5	93.5	84	77.1	3.4	2	15.2	5.44	36.4	156	53.2	266	153	32	21
6	Logan, UT	UTWB11510-1	6	31.9	66.3	75	74.0	n.d.	3	14.1	4.77	35.7	124	47.0	573	108	12	N/A
7	Davis, CA	DH1	2	44.4	97.5	83	79.1	2.2	1	13.1	4.88	38.3	208	74.2	200	130	42	20
8	Davis, CA	DH2	2	44.1	96.8	83	78.2	2.3	1	13.6	5.00	37.7	205	72.6	217	132	37	23
9	Davis, CA	DH3	2	44.8	97.6	81	78.2	2.4	1	13.8	5.07	38.6	193	71.2	262	131	37	23
10	Davis, CA	DH5	2	45.8	98.2	78	78.4	2.4	1	13.5	4.95	37.6	202	67.6	213	133	42	23
11	Davis, CA	DH6	2	46.5	98.6	78	78.0	2.4	1	13.5	4.94	36.9	192	63.5	245	132	38	18
12	Davis, CA	DH12	2	50.9	98.4	80	80.3	2.7	1	12.1	4.82	41.0	129	67.3	422	129	55	27
13	Davis, CA	DH13	2	50.2	98.2	80	80.8	2.1	1	12.2	4.77	41.9	142	69.2	416	141	51	30
14	Davis, CA	DH14	2	47.8	97.3	82	81.5	2.1	1	12.0	4.85	41.7	118	64.6	446	151	55	37
15	Davis, CA	DH15	2	47.7	96.6	82	81.3	2.1	1	12.1	4.64	39.2	118	66.4	447	131	46	36
16	Davis, CA	DH18	2	46.8	97.8	89	79.1	2.1	1	12.2	4.41	38.2	164	60.8	218	126	43	22
17	Davis, CA	DH19	2	46.8	96.6	88	78.1	2.2	1	12.3	4.39	37.2	164	60.8	236	127	43	22
18	Davis, CA	DH21	2	44.3	97.7	85	78.6	2.0	1	13.7	4.59	34.2	186	57.3	324	134	33	21
19	Davis, CA	DH23	2	47.7	99.1	77	77.8	2.1	1	13.6	4.91	38.3	186	72.4	338	149	33	23
20	Davis, CA	DH25	2	43.9	98.0	89	78.2	2.4	1	12.4	4.33	35.4	166	52.1	435	114	43	22
21	Davis, CA	DH26	2	41.7	97.6	78	77.6	2.0	1	13.6	4.54	35.1	152	57.2	438	132	28	20
22	Davis, CA	DH27	2	41.6	98.4	80	78.2	2.1	1	13.0	4.39	35.3	141	53.6	461	124	42	21
23	Davis, CA	DH31	2	46.8	97.3	81	78.4	2.3	1	12.3	4.65	40.4	132	68.8	231	145	48	28
24	Davis, CA	DH32	2	48.5	99.3	77	79.8	2.3	1	13.8	5.23	40.7	161	77.9	214	163	45	29
25	Davis, CA	DH33	2	44.5	98.3	86	79.5	2.0	1	12.4	4.78	41.6	177	72.7	346	165	51	32
26	Davis, CA	DH35	2	46.2	98.2	76	77.2	1.9	1	14.5	4.72	34.1	199	64.7	374	133	29	18
27	Davis, CA	DH36	2	53.1	99.4	82	79.3	2.2	1	12.6	4.73	39.4	143	64.6	441	165	43	24
28	Davis, CA	DH39	2	50.3	98.9	82	78.8	2.3	1	13.6	5.15	38.6	186	90.5	290	170	37	24
29	Davis, CA	DH42	2	50.2	96.5	83	78.8	2.1	1	13.2	5.13	39.7	122	63.7	427	163	42	24
30	Davis, CA	DH44	2	48.9	98.8	76	79.5	2.2	1	12.4	4.54	39.7	141	50.9	429	151	46	30
31		CONRAD MALT CHECK	2	41.6	97.7	88	84.2	2.9	1	11.9	5.55	49.4	128	101.9	246	214	57	23
32	Davis, CA	DH46	2	45.5	98.9	77	79.4	2.3	1	12.2	4.58	40.7	127	63.0	470	153	48	27
33	Davis, CA	DH51	2	44.0	98.6	81	80.2	2.1	1	12.5	4.65	39.9	160	69.1	397	135	46	33
34	Davis, CA	DH53	2	46.7	98.7	82	79.8	2.3	1	13.0	4.75	39.2	130	63.9	424	162	41	27
35	Davis, CA	DH55	2	49.0	99.2	79	78.7	2.2	1	13.6	4.35	33.6	162	51.6	344	127	33	22
36	Davis, CA	DH56	2	45.1	98.6	80	79.0	2.1	1	12.1	4.42	38.3	144	58.9	402	131	43	25
37	Davis, CA	DH59	2	48.3	99.2	83	79.8	2.1	1	12.2	4.79	42.1	201	74.1	311	159	51	32
38	Davis, CA	DH61	2	46.3	99.1	76	81.1	2.3	1	12.2	4.95	43.5	156	92.2	227	181	61	25
39	Davis, CA	DH62	2	46.4	98.7	76	81.1	2.4	1	12.2	4.99	43.6	150	87.1	232	181	61	25
40	Davis, CA	DH63	2	50.0	98.8	82	78.3	2.0	1	14.3	4.54	33.5	202	57.6	306	144	33	21
41	Davis, CA	DH65	2	49.3	98.8	78	79.8	2.1	1	12.7	4.66	39.8	163	68.5	429	152	46	35
42	Davis, CA	DH72	2	44.0	97.8	85	77.7	2.1	1	12.7	4.37	36.5	182	59.2	431	130	39	25
43	Davis, CA	DH76	2	51.7	99.1	83	78.6	2.4	1	11.7	4.32	37.5	153	63.8	408	122	43	22
44	Davis, CA	DH80	2	43.4	97.5	80	78.5	2.2	1	13.9	4.89	37.1	223	80.2	432	158	37	24
45	Davis, CA	DH81	2	44.0	98.6	79	80.0	2.2	1	11.7	4.38	38.6	166	75.4	389	147	46	32
46	Davis, CA	DH92	2	48.9	99.0	80	80.1	2.2	1	12.2	4.97	42.5	192	88.3	264	173	55	31
47	Davis, CA	DH95	2	50.0	98.4	89	80.2	2.4	1	12.0	4.88	42.9	158	76.8	357	185	58	27
48	Davis, CA	DH96	2	51.8	99.0	82	78.6	2.5	2	11.9	4.55	38.6	151	69.3	314	152	42	29
49	Davis, CA	DH97	2	47.0	98.8	81	79.6	2.1	1	12.4	4.74	38.6	167	65.3	398	148	46	26
50	Davis, CA	DH101	2	47.8	98.3	81	79.1	2.0	1	12.8	4.79	38.2	172	62.0	391	135	43	18
51	Davis, CA	DH103	2	51.1	98.9	82	78.9	2.1	1	13.1	4.94	40.0	206	68.2	368	141	42	25
52	Davis, CA	DH112	2	49.0	99.0	82	79.9	2.1	1	11.4	4.56	40.8	153	55.9	438	128	51	28
53	Davis, CA	DH116	2	42.3	97.8	81	79.8	2.3	1	11.9	4.81	41.9	187	72.0	381	160	55	32
54	Davis, CA	DH117	2	45.5	98.5	83	77.9	2.1	1	13.0	4.88	38.5	195	59.9	457	154	38	22
55	Davis, CA	DH118	2	48.6	99.1	86	78.4	1.9	1	13.0	4.77	39.3	192	69.3	438	146	38	25
56	Davis, CA	DH120	2	42.7	97.8	80	80.1	2.7	1	11.5	4.71	42.2	189	72.3	402	156	51	39
57	Davis, CA	DH122	2	41.6	97.1	83	79.5	2.0	1	12.4	4.83	40.8	192	63.2	311	138	54	22
58	Davis, CA	DH127	2	43.3	97.7	82	79.6	2.6	1	13.7	5.66	41.7	177	86.6	383	196	44	25
59	Davis, CA	DH134	2	44.9	99.0	79	80.0	2.3	1	12.0	5.26	45.4	174	89.2	359	186	58	22
60	Davis, CA	DH138	2	42.8	97.2	78	77.8	2.6	1	12.5	4.63	38.4	164	66.1	436	144	39	26
61	Davis, CA	DH139	2	44.4	98.1	80	77.9	2.0	1	13.5	4.94	38.0	222	67.2	444	135	38	23
62		CONRAD MALT CHECK	2	40.4	98.2	89	84.3	2.7	1	12.2	6.37	56.4	155	112.9	334	291	50	23
63	Davis, CA	DH151	2	45.2	98.7	80	77.8	2.3	2	12.3	4.64	40.7	163	57.1	513	137	43	22
64	Davis, CA	DH155	2	42.8	97.9	76	78.8	2.3	1	12.5	4.94	41.4	159	71.7	463	180	52	29
65	Davis, CA	DH157	2	49.3	98.8	86	79.7	2.3	1	11.8	5.23	46.2	168	75.3	374	198	58	20
66	Davis, CA	DH160	2	45.1	98.3	85	78.3	2.6	2	12.1	5.01	44.6	162	70.8	468	174	51	26

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67	Davis, CA	DH161	2	46.1	98.2	87	79.9	2.2	1	11.8	4.63	41.8	143	63.6	462	165	51	30
68	Davis, CA	DH163	2	41.9	96.9	77	79.6	2.6	1	13.0	5.45	44.1	178	89.3	455	233	54	19
69	Davis, CA	DH164	2	45.5	99.0	81	78.8	2.9	2	13.4	5.14	40.5	207	82.9	453	213	51	18
70	Davis, CA	DH165	2	48.8	98.5	80	80.6	2.3	1	12.4	5.26	44.9	170	82.4	376	226	60	22
71	Davis, CA	DH167	2	49.4	98.3	80	80.7	2.3	1	12.2	5.21	46.0	168	83.4	308	215	60	19
72	Davis, CA	DH168	2	42.1	98.4	83	80.2	2.1	1	13.0	4.82	37.4	192	78.6	397	183	48	25
73	Davis, CA	DH176	2	45.6	99.1	85	80.2	2.1	2	11.7	4.63	42.2	164	61.9	466	165	50	31
74	Davis, CA	DH178	2	47.6	98.7	71	79.8	2.2	1	13.6	5.05	38.7	227	79.9	472	197	43	23
75	Davis, CA	DH179	2	42.5	98.5	76	78.7	2.1	1	12.6	4.63	38.7	239	68.5	374	158	43	30
76	Davis, CA	DH180	2	45.2	98.4	79	79.9	2.2	1	12.8	4.90	38.9	165	64.4	418	182	53	21
77	Davis, CA	DH182	2	49.3	98.5	81	79.5	2.0	1	13.2	4.99	39.2	188	66.1	411	184	48	25
78	Davis, CA	DH184	2	42.7	98.2	75	80.0	2.7	1	12.1	4.99	44.4	163	82.7	335	196	58	23
79	Davis, CA	DH186	2	45.2	98.8	79	78.8	2.0	1	12.5	4.75	39.3	181	59.6	663	149	43	20
80	Davis, CA	DH190	2	49.2	99.1	82	79.9	2.2	1	14.0	5.52	42.3	167	74.5	433	198	48	28
81	Davis, CA	DH191	2	42.0	96.7	83	79.6	1.8	1	12.7	4.81	38.8	179	64.4	317	150	49	20
82	Davis, CA	Butta12	2	51.6	99.3	76	77.8	2.2	1	14.1	4.85	35.3	201	50.7	565	144	33	18
83	Davis, CA	Tahoe	2	42.1	98.1	79	77.7	2.0	1	13.4	4.73	36.7	200	56.9	571	128	34	15
84	Davis, CA	Capay	2	54.1	98.2	71	81.0	2.6	1	12.4	5.49	46.6	175	70.3	425	199	58	25
85	Davis, CA	B9K94	2	45.1	98.7	79	81.1	2.7	1	12.9	5.63	45.4	210	91.4	186	221	59	19
86	Davis, CA	B9K58	2	45.3	98.5	78	81.5	2.9	1	12.0	5.37	46.0	177	101.2	251	209	61	24
87	Davis, CA	B9K62	2	50.6	99.4	76	79.7	2.7	1	13.4	5.58	43.3	203	93.0	200	214	55	20
88	Davis, CA	Odiilia	2	54.6	98.8	75	79.9	2.9	1	14.1	6.20	47.4	218	102.5	143	239	41	20
89	Davis, CA	UC1322	2	44.2	92.6	79	80.5	2.7	1	13.1	5.64	45.1	140	95.3	382	202	49	19
90	Davis, CA	B9K72	2	53.2	98.1	91	81.2	2.1	1	11.8	5.00	42.9	131	74.2	585	171	58	34
91	Davis, CA	B9K90	2	45.8	98.8	82	82.4	3.0	1	13.6	5.98	46.3	194	104.7	274	250	49	24
92	Davis, CA	7859,6	2	45.0	97.1	83	81.9	2.7	1	12.8	5.62	46.0	147	95.8	256	224	59	24
93		CONRAD MALT CHECK	2	40.9	97.8	87	85.0	3.1	1	11.7	5.80	54.1	136	100.4	307	241	53	23
94	Davis, CA	7865,1	2	46.9	97.3	82	83.5	3.0	1	12.2	5.77	49.9	123	87.6	274	242	54	24
95	Davis, CA	7851,2	2	48.2	97.9	78	80.4	2.6	1	13.0	5.20	42.5	181	91.7	217	188	58	27
96	Davis, CA	7851,1	2	47.0	96.6	78	80.2	2.5	1	13.2	5.06	40.9	201	92.1	300	172	50	31
97	Davis, CA	B9K40	2	52.3	99.0	81	77.6	2.2	1	13.5	4.71	36.0	192	49.6	501	114	31	15
98	Davis, CA	B9K10	2	48.7	97.5	76	77.0	n.d.	3	13.9	4.97	37.0	220	52.3	171	162	31	20
99	Davis, CA	B20301-241	2	43.5	98.4	80	77.8	2.1	1	13.4	4.81	36.6	207	58.5	267	140	38	18
100	Davis, CA	7876,1	2	49.5	98.5	79	79.6	2.5	1	13.6	5.42	41.8	222	87.8	69	200	55	32
101	Davis, CA	7867,1	2	43.8	95.6	81	82.9	3.2	1	12.5	6.01	49.6	148	91.0	59	260	58	31
102	Davis, CA	7866,1	2	43.9	97.3	84	83.0	2.8	1	12.3	5.40	47.1	127	79.5	247	240	58	24
103	Davis, CA	7865,6	2	44.7	96.8	83	82.9	2.8	1	12.4	5.66	47.8	131	80.9	200	235	54	24
104	Davis, CA	7865,2	2	45.6	97.0	82	82.9	3.1	1	12.7	5.69	47.0	128	83.3	193	256	59	24
105	Davis, CA	7875,2	2	39.2	74.9	77	61.4	3.4	2	16.4	4.87	30.9	80	44.1	174	164	14	13
106	Davis, CA	7871,2	2	50.3	98.2	81	78.9	2.3	1	13.8	5.02	38.1	192	81.0	103	168	40	27
107	Davis, CA	7871,1	2	43.4	95.4	78	83.1	2.9	1	11.9	5.58	50.1	120	82.8	138	166	56	34
108	Davis, CA	7869,3	2	44.1	96.8	76	82.7	2.7	1	12.6	5.50	46.1	133	86.1	147	183	64	30
109	Davis, CA	7869,1	2	44.9	95.1	77	79.4	1.9	1	12.8	4.95	39.8	162	83.7	166	119	47	19
110	Davis, CA	7867,2	2	42.4	95.5	78	82.7	2.9	1	12.6	5.66	47.7	128	90.8	156	207	52	24
111	Davis, CA	B20302-452	2	47.4	98.1	80	77.1	2.3	2	13.3	4.67	37.4	180	55.6	372	106	33	17
112	Davis, CA	B20302-440	2	48.2	99.3	78	77.2	2.0	1	13.7	4.61	36.1	183	62.0	433	105	29	18
113	Davis, CA	B20302-416	2	46.5	98.4	81	77.2	2.2	2	13.3	4.60	34.5	187	54.6	427	106	33	17
114	Davis, CA	B20301-380	2	55.1	99.3	76	77.2	2.2	1	13.7	4.72	36.8	185	57.3	122	90	32	18
115	Davis, CA	Metcalfe	2	39.3	92.6	89	82.6	3.0	1	11.5	5.56	51.7	173	107.5	228	213	55	26
116	Davis, CA	Merit57	2	45.3	96.1	88	83.1	2.9	1	11.6	5.69	52.3	174	116.5	124	210	57	27
117	Davis, CA	11ARS183-9	2	40.8	92.8	87	84.2	3.3	1	10.6	5.64	56.7	143	102.8	167	228	48	28
118	Davis, CA	15ARS019-5	2	37.6	89.4	89	80.6	2.8	1	10.9	5.41	53.3	167	85.5	388	187	41	20
119	Davis, CA	15ARS182-1	2	44.6	95.1	83	82.2	3.2	1	9.8	5.22	58.3	94	107.4	112	214	49	37
120	Davis, CA	MT16M00707	2	46.7	96.4	85	83.8	2.6	1	10.4	5.01	51.2	156	83.5	343	168	48	41
121	Davis, CA	MT16M01902	2	49.8	98.4	90	83.6	2.4	1	12.1	5.13	45.5	208	96.3	154	196	61	27
122	Davis, CA	MT16M02201	2	44.4	92.9	98	89.3	3.4	1	10.1	5.60	57.8	131	112.6	222	249	53	34
123	Davis, CA	MT16M05610	2	41.4	94.1	84	82.9	2.7	1	10.1	5.46	59.9	171	111.3	268	234	52	33
124		CONRAD MALT CHECK	2	41.8	98.1	88	83.9	2.7	1	11.3	5.81	52.9	154	108.1	162	250	53	28
125	Davis, CA	MT17M01711	2	33.7	88.3	69	81.4	3.3	1	10.3	4.69	49.8	148	84.4	211	164	37	32
126	Davis, CA	B9K66	2	52.5	99.5	76	79.6	2.2	1	11.9	4.94	43.2	188	67.2	292	116	55	23
127	Davis, CA	B9K58	2	45.0	98.7	79	82.6	3.0	1	10.8	5.40	54.1	159	103.1	76	212	60	36
128	Davis, CA	B9K62	2	53.3	99.1	76	81.7	2.9	1	11.0	5.73	54.5	183	93.2	81	240	56	36
129	Davis, CA	B9K78	2	51.5	97.7	81	79.9	2.6	1	13.0	5.44	43.9	171	90.3	280	196	58	23
130	Davis, CA	12075-026	2	47.6	98.8	76	82.4	2.4	1	10.3	4.74	50.3	131	72.3	95	168	51	51
131	Davis, CA	13120-052	2	46.5	97.9	77	81.9	2.3	1	9.5	4.64	51.4	130	59.0	36	145	51	40
132	Davis, CA	14073-031	2	49.7	98.4	75	81.8	2.6	1	10.5	4.27	44.1	129	64.9	41	135	56	47

2022 Crop Year Breeders' Submissions

Lab No.	Location	Variety or Selection	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agtron)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (*ASBC)	Alpha-amylase (20*DU)	Beta-glucan (ppm)	FAN (ppm)	Adjunct Quality Score	All Malt Quality Score
133	Davis, CA	15080-003	2	43.6	96.2	75	82.1	2.2	1	10.7	4.68	47.4	159	68.7	113	163	47	45
134	Davis, CA	LCSGenie	2	45.5	97.2	75	82.3	2.2	1	10.7	4.79	47.4	135	63.5	121	180	50	33
135	Davis, CA	LCSOdyssey	2	47.4	97.3	76	82.0	2.1	1	11.0	4.67	45.5	124	62.5	175	177	49	37
136	Davis, CA	UC-Gallagher	2	50.1	96.4	74	80.4	3.2	1	14.8	6.47	46.1	193	96.2	164	334	43	19
137	Davis, CA	UC-Capay	2	53.9	98.4	90	81.8	2.1	1	11.5	5.22	47.7	108	66.9	504	207	53	39
138	Davis, CA	UC-Tahoe	2	43.6	97.6	80	79.8	2.3	2	12.5	4.89	40.5	187	61.8	387	171	54	26
139	Davis, CA	B9K58	2	45.3	98.2	80	82.1	3.0	1	13.2	6.00	48.7	166	103.9	216	305	49	24
140	Davis, CA	B9K90	2	45.1	98.9	86	84.0	2.8	1	13.0	5.71	46.5	164	83.5	344	243	59	24
141	Davis, CA	OSU DH Top O.	2	46.4	94.5	63	79.1	2.7	2	15.3	5.72	38.7	191	60.7	204	221	37	14
142		CONRAD MALT CHECK	2	40.1	98.1	87	84.4	3.1	1	12.1	6.25	54.5	126	97.1	264	322	50	23
143	Fresno, CA	B9K94	2	39.0	94.6	92	84.2	3.0	2	7.9	4.42	60.8	113	74.5	207	162	37	49
144	Fresno, CA	B9K58	2	35.9	87.2	90	82.8	3.0	2	7.9	4.72	66.4	116	85.5	97	212	45	31
145	Fresno, CA	B9K62	2	45.3	98.0	89	83.1	3.7	2	8.4	4.63	62.4	95	79.9	133	213	44	37
146	Fresno, CA	B9K90	2	36.2	93.0	94	85.3	3.4	2	8.7	4.82	62.1	108	92.5	127	227	47	33
147	Fresno, CA	LCSGenie	2	42.6	95.5	75	80.2	2.1	1	11.7	4.64	41.8	149	59.3	117	159	54	35
148	Fresno, CA	LCSOdyssey	2	37.7	94.2	84	83.7	2.8	2	8.4	4.21	56.1	92	57.1	125	151	34	38
149	Bushland, TX	QSTPD1	6	34.7	81.6	73	80.5	n.d.	3	14.0	6.21	45.1	190	81.8	384	261	44	N/A
150	Bushland, TX	ODYPD1	2	35.4	93.9	62	80.1	n.d.	3	15.1	6.05	40.6	156	76.5	287	246	36	17
151	Bushland, TX	GNSPD2	2	36.4	78.8	63	76.1	3.2	1	16.5	6.41	39.9	152	84.3	337	243	21	9
152	Bushland, TX	FULPD2	2	32.9	72.5	56	71.6	3.5	1	20.9	7.36	36.2	243	118.5	339	319	21	7
153	Bushland, TX	GENPD2	2	32.9	82.6	50	75.7	3.5	1	18.7	6.84	37.3	202	81.5	137	268	24	10
154	Bushland, TX	RBTPD2	6	32.9	82.0	67	77.9	2.9	1	17.6	7.11	42.0	252	77.2	398	298	35	N/A
155	Bushland, TX	ORBPD2	6	31.0	49.4	65	73.4	4.3	2	18.3	7.10	38.9	207	69.0	300	270	24	N/A
156	Bushland, TX	ODYPD2	2	31.8	82.5	52	75.2	3.6	1	18.3	6.48	36.0	145	80.5	170	264	21	7
157	Bushland, TX	RBTPD1	6	34.6	85.9	73	79.4	2.8	1	15.1	6.38	44.5	226	70.6	388	278	46	N/A
158	Bushland, TX	GENPD1	2	34.9	90.3	60	79.8	3.3	1	14.0	6.04	44.8	180	72.4	256	242	38	18
159	Bushland, TX	QSTPD2	6	34.5	79.5	71	78.5	2.7	1	17.1	6.86	41.6	260	86.6	400	285	36	N/A
160	Bushland, TX	FANPD2	2	30.6	73.4	51	74.3	3.8	1	18.1	6.60	36.6	185	77.6	169	280	21	7
161	Bushland, TX	FULPD1	2	39.3	89.4	67	74.9	3.2	1	18.2	6.79	37.5	230	109.3	346	267	26	12
162	Bushland, TX	GNSPD1	2	38.1	86.8	67	77.6	2.7	1	16.1	5.91	37.1	178	88.0	347	222	29	12
163	Bushland, TX	CLYPD1	2	42.2	90.1	61	77.8	3.0	1	15.0	5.62	37.7	229	53.5	297	198	32	18
164	Bushland, TX	ORBPD1	6	38.8	75.6	65	74.4	3.4	1	14.5	5.31	37.5	131	39.3	341	175	21	N/A
165	Bushland, TX	FANPD1	2	36.3	88.5	59	77.6	3.7	1	14.3	5.59	41.1	159	63.4	224	210	36	10
166	Bushland, TX	VIOPD1	2	37.1	85.7	63	76.5	3.1	1	17.5	6.08	34.9	252	54.8	274	138	19	11
167	Crookston, MN	10003	2	37.6	93.2	63	76.4	2.5	1	13.9	4.81	34.7	144	59.7	242	177	28	17
168	Crookston, MN	10024	2	40.8	95.9	67	78.4	2.9	1	11.7	4.85	42.5	126	75.2	352	158	51	25
169	Crookston, MN	20044	2	38.7	94.3	61	77.2	2.7	1	13.8	4.87	36.2	134	59.7	125	177	33	22
170	Crookston, MN	20062	2	42.5	96.8	66	78.6	3.4	1	11.0	5.04	47.0	115	74.6	241	174	44	36
171	Crookston, MN	30068	2	38.4	90.0	64	77.3	3.0	1	13.1	4.66	37.7	119	55.0	109	169	31	28
172	Crookston, MN	30089	2	42.0	95.7	64	78.9	3.5	1	11.0	5.04	47.5	117	72.3	185	179	44	32
173		CONRAD MALT CHECK	2	40.6	97.9	89	83.9	2.6	1	11.9	5.78	51.9	159	100.0	112	271	56	26
174	Crookston, MN	40104	2	43.3	96.6	66	79.1	3.7	1	11.6	5.16	46.2	116	80.5	292	186	52	20
175	Crookston, MN	40120	2	40.6	92.2	63	78.0	3.1	1	12.8	4.78	39.4	108	59.0	121	172	42	33
176	Crookston, MN	10002	6	32.6	86.6	72	76.7	n.d.	3	13.6	5.24	39.3	204	75.3	57	188	38	N/A
177	Crookston, MN	20037	6	33.8	92.1	70	76.6	n.d.	3	13.4	5.24	41.1	197	76.3	44	157	43	N/A
178	Crookston, MN	30096	6	33.5	86.9	71	77.1	n.d.	3	12.4	5.01	41.8	173	71.4	130	171	40	N/A
179	Crookston, MN	40114	6	33.8	89.2	71	77.5	n.d.	3	13.2	5.00	40.9	191	79.7	81	181	39	N/A
180	Sidney, NE	112	2	32.8	89.4	55	75.7	n.d.	3	14.1	5.85	43.6	179	64.4	44	233	37	13
181	Sidney, NE	202	2	36.7	89.8	47	71.0	n.d.	3	16.6	5.08	30.9	90	11.3	548	170	10	13
182	Sidney, NE	221	2	31.8	83.0	56	75.8	4.4	1	16.8	6.86	41.5	236	76.5	49	326	33	16
183	Sidney, NE	227	2	30.9	62.0	65	76.1	4.2	1	15.5	7.23	47.4	196	102.3	151	333	21	4
184	Sidney, NE	403	2	37.9	93.8	55	76.1	n.d.	3	15.3	5.98	39.9	233	65.7	34	231	34	22
185	Sidney, NE	420	2	31.7	85.2	57	76.7	4.4	2	15.7	6.67	43.9	239	85.0	22	335	35	16
186	Sidney, NE	422	2	30.1	52.7	68	76.0	4.5	1	15.5	7.25	47.6	192	108.7	64	353	28	11
187	Sidney, NE	609	2	36.7	90.1	54	73.1	n.d.	3	17.9	6.34	35.9	220	61.6	90	213	31	15
188	Sidney, NE	719	2	30.6	68.1	56	75.0	4.1	1	15.1	6.89	46.3	192	97.8	95	317	33	11
189	Sidney, NE	903	2	34.1	92.2	56	76.2	n.d.	3	14.5	5.79	41.3	213	63.5	22	213	39	17
190	Sidney, NE	906	2	36.5	87.9	56	73.2	5.3	2	17.7	6.23	37.0	274	76.6	34	238	30	16
191	Sidney, NE	925	2	32.2	86.9	54	78.0	4.7	1	15.6	7.29	47.6	250	87.1	15	390	31	14
192	Sidney, NE	1008	2	37.1	88.3	47	73.2	n.d.	3	18.1	6.17	35.1	204	41.4	161	246	19	6
193	Sidney, NE	1016	2	32.9	89.8	57	74.9	5.9	2	16.1	6.16	39.4	242	63.6	45	231	30	16
194	Sidney, NE	1126	2	30.9	69.3	60	76.2	4.5	1	14.8	6.78	46.6	185	96.8	184	304	26	4
195	Sidney, NE	1224	2	32.5	87.7	52	77.7	5.3	1	14.9	6.96	47.4	183	84.1	26	352	31	14
196	Sidney, NE	203	6	27.5	68.4	60	75.6	4.2	1	14.4	5.68	42.0	176	67.4	100	232	35	N/A
197	Sidney, NE	220	6	27.0	55.6	67	74.4	4.6	1	17.4	7.60	44.3	255	85.5	29	343	33	N/A
198	Sidney, NE	303	6	34.2	92.6	48	72.5	4.5	2	16.5	5.61	34.0	148	29.0	348	181	22	N/A

2022 Crop Year Breeders' Submissions

Lab No.	Location	Variety or Selection	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agron)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (*ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)	Adjunct Quality Score	All Malt Quality Score
199	Sidney, NE	524	6	25.9	58.1	68	75.8	4.2	1	17.4	7.56	44.5	270	84.6	44	339	33	N/A
200	Sidney, NE	604	6	33.2	92.2	53	73.1	4.9	1	17.5	5.87	34.1	197	63.7	219	214	34	N/A
201	Sidney, NE	615	6	27.7	69.4	55	75.5	4.7	1	14.8	5.90	41.6	212	70.3	67	240	31	N/A
202	Sidney, NE	817	6	22.6	45.2	59	68.6	5.0	1	18.1	7.75	44.9	278	89.3	23	363	33	N/A
203	Sidney, NE	902	6	34.2	91.0	53	75.4	3.5	1	17.4	5.89	36.9	196	66.1	257	189	29	N/A
204		TRADITION MALT CHECK	6	39.1	97.2	61	78.5	3.2	1	12.3	5.88	47.0	195	73.9	156	217	59	N/A
205	Sidney, NE	910	6	27.1	67.0	58	74.8	1.8	1	15.4	5.58	37.2	210	66.9	84	196	33	N/A
206	Sidney, NE	1111	6	35.0	93.4	53	72.8	3.2	1	18.4	5.89	32.6	208	59.3	331	171	29	N/A
207	Sidney, NE	1203	6	28.3	76.1	51	72.9	3.1	1	16.9	5.89	36.5	224	65.0	74	165	31	N/A
208	Sidney, NE	1223	6	24.6	59.0	63	74.9	3.9	1	17.1	7.46	45.2	268	81.0	45	255	33	N/A
209	Custar, OH	1.1	2	39.1	99.2	43	81.7	n.d.	3	10.2	6.41	68.3	76	63.4	13	265	41	34
210	Custar, OH	1.31	2	37.4	98.9	40	81.8	n.d.	3	11.9	7.74	68.5	89	62.0	4	325	44	22
211	Custar, OH	1.55	2	31.4	92.2	41	80.2	7.1	1	13.8	7.44	56.0	108	86.2	24	330	37	28
212	Custar, OH	1.72	2	35.5	92.9	45	80.8	6.2	1	10.7	6.26	60.4	80	75.1	181	247	31	19
213	Custar, OH	2.3	2	30.8	89.7	44	80.3	5.7	1	11.3	6.27	58.0	85	93.4	158	243	34	17
214	Custar, OH	2.33	2	28.8	89.1	40	79.3	6.8	2	14.7	7.28	49.7	110	96.9	33	336	31	20
215	Custar, OH	2.41	2	38.2	99.0	45	82.2	8.7	2	10.5	6.27	61.1	81	68.6	14	258	42	35
216	Custar, OH	2.78	2	36.3	98.8	41	82.3	10.1	1	11.4	7.34	67.9	89	67.1	5	313	46	34
217	Custar, OH	3.01	2	39.6	99.3	47	82.0	n.d.	3	10.1	6.59	66.4	81	65.8	9	271	41	39
218	Custar, OH	3.15	2	37.2	99.6	44	82.0	n.d.	3	12.5	7.44	64.1	96	65.6	3	300	44	30
219	Custar, OH	3.59	2	29.6	89.5	45	80.9	5.3	1	12.1	6.03	53.6	95	91.6	142	228	37	18
220	Custar, OH	3.75	2	28.9	90.8	40	80.1	6.6	1	13.8	7.24	54.2	103	96.8	50	319	37	28
221	Custar, OH	4.21	2	29.6	90.7	37	80.6	7.6	2	13.7	7.09	53.1	109	102.5	80	301	36	27
222	Custar, OH	4.22	2	33.8	91.9	42	80.6	6.6	2	11.6	6.18	56.8	93	92.1	208	250	35	13
223	Custar, OH	4.44	2	38.3	99.2	44	82.1	n.d.	3	12.9	7.94	65.8	103	63.7	13	347	50	31
224	Custar, OH	4.7	2	35.3	98.1	42	81.4	n.d.	3	12.4	6.99	60.6	100	68.1	4	328	44	25
225	Custar, OH	1.16	6	28.4	87.8	46	79.9	6.1	2	10.7	7.07	68.1	105	66.3	133	299	38	N/A
226	Custar, OH	1.35	6	29.9	88.7	42	81.3	n.d.	3	11.6	5.70	52.2	114	74.5	134	234	49	N/A
227	Custar, OH	1.73	6	29.8	88.8	49	80.0	n.d.	3	13.9	6.29	45.9	181	77.7	52	289	48	N/A
228	Custar, OH	2.28	6	27.1	79.9	48	78.1	4.2	2	14.3	6.74	49.1	216	89.6	166	306	30	N/A
229	Custar, OH	2.65	6	28.9	87.7	47	81.5	n.d.	3	10.3	5.86	62.2	101	67.1	163	237	40	N/A
230	Custar, OH	2.68	6	30.5	89.5	42	80.4	n.d.	3	10.6	6.14	59.8	115	69.7	44	287	43	N/A
231	Custar, OH	3.19	6	30.7	89.3	42	79.6	8.0	2	11.4	6.13	54.7	121	73.2	56	267	48	N/A
233	Custar, OH	3.34	6	29.9	86.3	45	80.6	n.d.	3	10.9	5.90	56.5	105	68.5	166	251	40	N/A
234	Custar, OH	3.53	6	27.4	82.0	50	78.6	4.6	2	13.5	6.53	48.4	216	90.0	120	276	35	N/A
235	Custar, OH	4.2	6	28.9	87.5	45	78.5	4.6	2	14.3	6.60	49.5	213	85.1	157	274	37	N/A
236	Custar, OH	4.49	6	29.4	90.0	48	81.3	n.d.	3	10.0	5.64	59.7	110	65.1	154	218	44	N/A
237	Custar, OH	4.62	6	28.9	88.5	43	79.6	n.d.	3	12.2	6.43	56.9	134	76.0	12	267	50	N/A
238	Arlington, WI	FR-101	2	43.8	99.7	56	77.4	n.d.	3	11.4	4.82	43.5	84	27.7	363	142	32	21
239	Arlington, WI	SR-106	2	40.5	97.5	54	82.9	3.0	1	10.1	4.88	53.0	84	71.2	117	185	46	42
240	Arlington, WI	SR-127	2	43.7	98.7	55	81.8	3.3	1	11.3	5.33	51.2	115	84.3	339	203	53	36
241	Arlington, WI	FR-138	2	44.6	99.7	53	72.7	3.5	2	11.1	4.21	39.4	26	11.7	588	81	24	28
242	Arlington, WI	SR-211	2	39.6	96.8	53	82.2	1.4	1	9.4	5.15	55.4	88	73.0	133	207	44	32
243	Arlington, WI	SR-215	2	43.8	99.1	57	81.7	4.0	1	10.5	5.66	59.0	115	94.7	158	232	46	37
244	Arlington, WI	FR-221	2	42.6	99.4	60	77.2	n.d.	3	12.8	4.68	38.3	72	26.1	480	139	23	19
245	Arlington, WI	FR-244	2	43.8	98.9	57	79.3	n.d.	3	11.5	4.68	43.6	81	25.9	407	133	32	24
246	Arlington, WI	FR-311	2	43.1	98.8	52	79.8	n.d.	3	10.5	5.01	51.0	84	25.9	180	146	29	21
247	Arlington, WI	SR-328	2	41.0	97.8	53	83.2	1.5	1	9.6	4.92	55.4	68	73.1	135	198	46	37
248	Arlington, WI	SR-331	2	43.4	99.4	57	81.8	2.1	1	10.1	5.07	54.6	85	81.4	457	189	44	37
249	Arlington, WI	FR-345	2	44.4	99.8	58	79.7	n.d.	3	12.2	5.26	45.8	128	40.7	61	184	60	23
250	Arlington, WI	FR-404	2	44.3	99.2	57	78.9	n.d.	3	11.4	4.46	42.3	58	18.7	565	110	32	27
251	Arlington, WI	SR-420	2	43.3	99.2	56	81.5	1.5	1	10.9	5.18	52.1	83	80.3	362	191	44	27
252	Arlington, WI	FR-431	2	44.0	99.6	60	79.1	n.d.	3	11.3	5.16	49.9	102	31.6	133	162	38	32
253	Arlington, WI	SR-431	2	39.8	98.5	53	83.3	1.3	1	9.0	4.87	57.3	73	77.0	133	196	44	32
254	Arlington, WI	SR-117	6	34.9	96.9	62	80.2	n.d.	3	11.7	5.47	50.9	148	69.9	174	198	51	N/A
255	Arlington, WI	FR-121	6	36.2	97.9	63	79.1	n.d.	3	10.8	4.92	48.9	98	55.3	390	170	35	N/A
256	Arlington, WI	FR-130	6	39.9	98.9	51	78.6	n.d.	3	11.5	5.17	46.8	83	28.7	511	171	35	N/A
257	Arlington, WI	FR-215	6	34.4	97.6	65	79.5	n.d.	3	10.9	4.68	46.1	95	41.5	430	151	34	N/A
258	Arlington, WI	SR-216	6	34.9	97.4	62	81.4	n.d.	3	11.0	5.65	53.5	138	76.7	189	222	48	N/A
259	Arlington, WI	FR-240	6	35.7	96.8	51	77.2	n.d.	3	11.4	5.01	44.9	69	26.7	543	148	23	N/A
260	Arlington, WI	SR-318	6	34.9	94.9	57	80.6	3.1	2	12.1	5.85	50.7	162	83.9	286	231	53	N/A
261	Arlington, WI	FR-328	6	38.2	97.9	49	78.6	n.d.	3	11.6	4.90	45.5	76	31.9	509	161	35	N/A
262	Arlington, WI	FR-332	6	34.5	96.8	63	79.8	n.d.	3	11.1	4.74	45.9	101	52.7	362	159	37	N/A
263	Arlington, WI	SR-403	6	35.7	94.2	60	80.4	3.0	2	12.2	5.75	49.2	157	75.7	296	224	53	N/A
264		TRADITION MALT CHECK	6	39.3	97.3	61	81.1	n.d.	3	11.9	5.91	52.8	170	86.0	152	240	55	N/A
265	Arlington, WI	FR-421	6	37.8	96.8	44	78.7	n.d.	3	10.5	4.97	50.2	97	43.4	381	168	29	N/A

2022 Crop Year Breeders' Submissions

Lab No.	Location	Variety or Selection	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agtron)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (*ASBC)	Alpha-amylase (20*DU)	Beta-glucan (ppm)	FAN (ppm)	Adjunct Quality Score	All Malt Quality Score
266	Arlington, WI	FR-430	6	35.4	97.4	67	79.6	n.d.	3	10.3	4.58	48.3	95	48.0	379	147	29	N/A
267	Vincennes, IN	116	2	40.1	98.5	46	80.2	n.d.	3	9.8	4.28	47.8	73	22.8	386	112	24	26
268	Vincennes, IN	216	2	44.6	98.7	44	79.2	n.d.	3	13.7	5.59	43.7	152	47.9	130	197	43	19
269	Vincennes, IN	221	2	44.3	98.5	41	78.7	n.d.	3	14.2	5.52	40.8	132	30.6	177	173	33	22
270	Vincennes, IN	324	2	40.9	98.2	41	75.6	n.d.	3	16.3	5.22	32.7	167	32.7	174	158	23	19
271	Vincennes, IN	325	2	40.8	98.0	44	78.9	5.3	2	11.9	4.75	42.9	110	36.4	165	141	36	25
272	Vincennes, IN	733	2	43.3	98.7	40	79.6	4.2	2	12.9	5.96	47.2	166	56.3	92	232	57	21
273	Vincennes, IN	1022	2	38.1	95.5	43	75.8	n.d.	3	14.8	5.23	35.9	100	19.0	437	136	18	20
274	Vincennes, IN	1033	2	41.3	98.4	48	79.9	n.d.	3	11.6	4.96	43.7	110	31.2	283	153	42	29
275	Vincennes, IN	119	6	37.3	97.5	46	78.9	n.d.	3	10.8	4.71	47.9	85	25.8	444	152	22	N/A
276	Vincennes, IN	219	6	35.5	98.0	42	78.3	n.d.	3	10.7	4.50	43.2	92	19.9	512	120	27	N/A
277	Vincennes, IN	525	6	36.1	96.0	45	78.5	3.9	1	12.4	5.23	42.8	127	40.5	387	174	49	N/A
278	Vincennes, IN	725	6	34.7	97.8	45	78.8	3.9	1	12.9	5.21	42.4	146	49.4	302	184	49	N/A
279	Vincennes, IN	820	6	34.9	94.2	45	75.6	4.7	2	13.9	4.72	34.9	111	26.4	458	139	11	N/A
280	Vincennes, IN	832	6	36.8	94.9	46	78.1	3.6	1	12.1	4.84	41.5	124	51.4	371	161	40	N/A
281	Vincennes, IN	1119	6	35.6	98.6	46	80.6	n.d.	3	9.8	4.74	52.2	110	41.2	379	161	29	N/A
282	Vincennes, IN	1132	6	35.1	97.3	45	80.0	n.d.	3	10.6	5.03	48.7	119	42.1	425	168	32	N/A
283	Warsaw, VA	VA22M-5	2	52.2	99.5	47	80.1	2.5	1	13.1	5.28	42.6	112	51.9	345	182	50	32
284	Warsaw, VA	VA22M-6	2	51.8	99.5	51	77.5	2.4	1	14.4	4.94	35.6	87	40.1	509	157	23	22
285	Warsaw, VA	VA22M-7	2	40.4	99.0	49	77.8	2.6	1	14.0	5.41	39.4	124	53.8	451	192	35	19
286	Warsaw, VA	VA22M-8	2	45.0	99.6	51	78.4	2.4	1	11.8	5.15	44.7	130	47.7	263	176	49	22
287	Warsaw, VA	VA22M-9	6	46.0	98.9	45	78.0	2.9	1	13.1	5.60	45.2	122	41.9	467	220	46	N/A
288	Warsaw, VA	VA22M-10	2	47.2	99.3	47	78.2	2.3	1	13.3	5.10	40.3	192	50.4	435	179	47	24
289	Warsaw, VA	VA22M-11	6	52.0	99.2	49	79.6	2.2	1	12.4	4.55	38.5	155	48.1	168	159	46	N/A
290	Warsaw, VA	VA22M-12	6	48.9	99.6	50	79.2	2.3	1	11.8	4.58	42.0	99	43.8	293	164	41	N/A
291	Warsaw, VA	VA22M-13	2	53.7	99.7	52	79.5	2.5	2	12.6	4.83	41.0	134	45.6	248	178	51	23
292	Warsaw, VA	VA22M-14	6	53.9	99.4	43	78.7	2.3	2	13.0	4.71	37.5	142	51.5	240	170	39	N/A
293	Warsaw, VA	VA22M-15	2	55.2	99.8	50	78.5	2.3	1	11.2	5.04	46.2	168	61.9	206	202	55	17
294	Warsaw, VA	VA22M-16	2	54.2	99.5	53	77.1	2.4	1	12.6	5.50	44.6	199	61.9	167	227	53	15
295	Warsaw, VA	TRADITION MALT CHECK	6	38.8	97.1	61	80.4	3.0	1	11.7	5.91	54.5	181	98.5	25	314	61	N/A
296	Warsaw, VA	VA22M-17	2	54.2	99.4	52	79.7	2.6	2	13.1	5.40	44.0	85	57.2	236	227	47	17
297	Warsaw, VA	VA22M-18	2	50.4	99.6	45	77.6	2.3	2	12.3	4.54	39.1	131	52.0	177	146	38	22
298	Warsaw, VA	VA22M-19	2	51.4	99.5	46	77.5	2.1	1	13.2	4.77	37.5	150	45.9	94	163	38	29
299	Warsaw, VA	VA22M-20	2	52.1	99.6	52	78.8	2.3	1	12.5	4.81	39.9	90	50.6	353	189	43	20
300	Warsaw, VA	VA22M-21	2	55.9	99.7	51	77.8	2.4	2	12.9	4.97	40.6	87	50.8	399	189	43	19
301	Warsaw, VA	VA22M-22	2	52.0	99.2	46	77.3	2.4	1	13.3	5.03	40.9	90	55.4	188	199	39	20
302	Warsaw, VA	VA22M-23	2	55.2	99.2	48	77.4	2.6	1	13.5	5.18	41.4	131	52.3	466	201	46	17
303	Warsaw, VA	VA22M-24	2	55.7	99.3	47	76.4	2.5	1	13.9	5.25	37.9	121	62.5	511	212	38	15
304	Warsaw, VA	VA22M-25	2	56.0	99.6	50	77.2	2.5	2	13.2	4.68	37.3	81	46.9	601	168	23	24
305	Warsaw, VA	VA22M-26	2	56.7	99.6	51	77.1	n.d.	3	12.7	4.58	36.7	110	43.1	591	152	31	30
306	Warsaw, VA	VA22M-27	2	51.9	99.4	51	77.0	2.3	1	11.6	4.54	41.3	120	51.1	501	149	41	26
307	Warsaw, VA	VA22M-28	2	54.3	99.7	52	77.7	2.2	1	14.1	5.66	42.2	182	63.4	249	215	39	17
308	Warsaw, VA	VA22M-29	2	49.3	99.0	60	78.6	2.8	1	12.3	4.28	37.5	118	46.4	362	133	37	28
309	Warsaw, VA	VA22M-30	2	55.5	99.7	51	80.2	2.3	1	12.0	4.71	41.1	96	59.2	442	176	44	32
310	Warsaw, VA	VA22M-31	2	51.4	99.0	58	78.7	2.4	1	12.1	5.15	45.4	156	67.1	191	196	55	20
311	Warsaw, VA	VA22M-32	2	53.8	99.1	46	78.7	2.6	1	12.2	4.52	40.4	82	52.3	521	147	41	23
312	Warsaw, VA	VA22M-33	2	54.7	99.2	51	78.2	2.1	1	12.4	4.72	40.8	122	55.0	441	161	48	24
313	Warsaw, VA	VA22M-34	2	52.3	99.4	54	79.3	2.3	1	11.7	4.71	43.0	106	57.9	419	172	45	31
314	Warsaw, VA	VA22M-35	2	53.3	98.1	51	78.7	2.9	1	11.5	4.27	40.6	74	45.9	550	131	38	32
315	Warsaw, VA	VA22M-36	2	54.1	98.9	54	78.3	2.2	1	13.3	4.95	39.6	90	55.6	502	171	35	24
316	Warsaw, VA	VA22M-37	2	50.6	99.0	56	78.4	2.8	1	11.8	4.37	39.2	122	49.8	443	139	40	27
317	Warsaw, VA	VA22M-38	2	53.4	99.4	54	80.5	3.3	1	12.7	5.27	42.5	185	62.5	222	184	58	25
318	Warsaw, VA	VA22M-39	2	50.1	99.7	47	80.2	2.9	1	12.4	4.70	38.4	187	64.6	200	147	46	23
319	Warsaw, VA	VA22M-40	2	47.0	98.4	50	79.7	2.3	1	12.3	4.68	39.1	95	59.4	193	166	39	30
320	Warsaw, VA	VA22M-45	2	50.6	99.5	43	78.6	2.7	1	14.9	5.16	36.9	87	51.3	370	170	30	22
321	Warsaw, VA	VA22M-46	2	44.4	97.5	49	82.0	2.8	1	13.0	5.18	40.2	96	50.6	403	192	54	33
322	Warsaw, VA	VA22M-47	2	49.9	99.6	55	80.1	3.0	1	12.7	4.87	39.8	81	58.1	357	173	43	29
323	Warsaw, VA	VA22M-48	2	47.4	99.3	50	80.4	2.4	1	12.9	5.20	41.1	151	63.9	293	191	58	25
324	Warsaw, VA	VA22M-49	2	50.8	99.3	55	79.4	2.4	1	13.2	5.00	40.7	138	58.0	316	160	47	24
325	Warsaw, VA	VA22M-50	2	48.5	99.4	46	80.8	1.8	1	12.2	5.36	45.4	144	65.7	212	201	58	22
326	Warsaw, VA	CONRAD MALT CHECK	2	41.2	98.2	89	84.6	2.8	1	12.3	6.07	52.4	126	109.4	73	303	57	30
327	Warsaw, VA	VA22M-51	2	51.3	99.4	50	79.8	n.d.	3	13.2	4.99	38.3	118	50.6	299	170	40	26
328	Warsaw, VA	VA22M-52	2	51.8	99.5	50	80.0	1.8	1	13.1	5.08	41.5	161	60.0	249	184	53	23
329	Warsaw, VA	VA22M-53	2	46.6	99.2	55	81.4	2.0	2	12.9	4.79	38.2	159	43.8	227	147	45	22
330	Warsaw, VA	VA22M-54	2	52.9	99.2	51	79.7	1.7	1	13.9	5.09	38.9	164	55.8	356	186	43	21
331	Warsaw, VA	VA22M-55	2	46.5	98.6	43	79.6	1.8	1	12.3	4.96	42.7	158	55.9	336	175	55	27

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Lab No.	Location	Variety or Selection	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agtron)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (*ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)	Adjunct Quality Score	All Malt Quality Score
332	Warsaw, VA	VA22M-56	2	49.3	99.3	53	79.9	1.6	1	12.7	4.78	38.2	186	45.7	557	153	43	25
333	Warsaw, VA	VA22M-57	2	46.2	99.2	47	78.3	2.0	2	13.7	4.71	36.2	178	48.8	482	143	29	17
334	Warsaw, VA	VA22M-58	2	57.8	99.2	50	79.8	1.8	1	13.6	4.92	38.9	152	45.5	321	158	37	25
335	Warsaw, VA	VA22M-59	2	46.5	97.8	49	77.8	2.3	2	14.8	5.30	36.9	127	46.3	630	170	29	21
336	Warsaw, VA	VA22M-60	2	46.5	99.2	45	78.4	1.7	1	15.1	5.24	35.3	198	45.3	513	151	34	22
337	Warsaw, VA	VA22M-61	2	49.3	99.4	54	77.0	1.8	2	15.6	5.01	32.7	183	47.9	492	147	29	17
338	Warsaw, VA	VA22M-62	2	39.5	95.0	59	79.0	1.9	2	13.2	5.06	40.6	142	50.9	431	176	43	20
339	Warsaw, VA	VA22M-63	2	44.7	98.6	61	79.1	1.6	1	14.2	5.02	36.8	173	50.3	227	137	37	18
340	Warsaw, VA	VA22M-64	2	44.4	97.1	53	78.2	2.0	2	13.8	5.17	38.9	177	49.6	340	168	33	21
341	Warsaw, VA	VA22M-65	2	49.5	99.4	59	78.5	1.8	1	14.4	4.92	36.2	156	50.1	373	163	37	22
342	Warsaw, VA	VA22M-66	2	44.8	98.9	52	78.2	2.0	2	14.6	4.59	32.6	166	45.2	521	137	29	20
343	Warsaw, VA	VA22M-67	2	47.4	98.6	54	80.0	2.1	2	11.8	4.50	39.7	121	56.3	300	138	45	25
344	Warsaw, VA	VA22M-68	2	47.9	99.3	56	80.1	1.9	1	13.0	4.71	37.8	153	53.3	370	166	46	27
345	Warsaw, VA	VA22M-69	2	43.6	98.6	55	79.6	2.3	1	13.3	5.44	44.1	143	67.9	283	223	55	23
346	Warsaw, VA	VA22M-70	2	46.4	99.2	52	79.6	2.2	1	11.9	4.60	39.5	175	59.3	175	158	46	30
347	Warsaw, VA	VA22M-71	2	45.9	98.7	54	79.0	2.2	2	11.8	4.44	40.4	104	47.3	206	124	41	30
348	Warsaw, VA	VA22M-72	2	50.6	99.5	55	78.6	2.2	2	13.6	5.14	38.7	199	61.5	112	169	39	24
349	Warsaw, VA	VA22M-73	2	50.5	99.2	53	77.7	2.2	1	12.5	4.76	38.8	160	54.9	121	144	42	21
350	Warsaw, VA	VA22M-74	2	48.8	99.7	53	79.5	2.2	1	12.6	4.65	40.0	161	50.9	185	152	46	27
351	Warsaw, VA	VA22M-75	2	50.5	99.5	53	78.8	2.3	2	12.9	4.29	35.9	137	44.0	221	114	39	21
352	Warsaw, VA	VA22M-76	2	48.4	99.3	55	78.4	2.0	1	14.7	4.83	34.6	174	55.7	280	141	37	18
353	Warsaw, VA	VA22M-77	2	51.1	99.6	51	78.7	2.0	1	13.5	4.58	34.1	162	43.0	244	135	30	21
354	Warsaw, VA	VA22M-78	2	52.4	99.6	52	77.6	1.9	1	13.9	4.73	34.7	170	48.2	321	149	26	18
355	Warsaw, VA	VA22M-79	2	45.8	99.1	52	79.0	2.1	2	14.1	4.91	36.2	239	58.8	244	151	36	21
356	Warsaw, VA	VA22M-80	2	47.6	99.6	50	80.0	1.9	1	12.8	4.39	34.5	162	52.0	139	123	49	28
357		CONRAD MALT CHECK	2	40.5	97.9	88	85.0	2.9	1	12.1	6.08	54.2	141	111.8	47	307	57	30
358	Warsaw, VA	VA22M-85	2	47.8	99.5	56	78.7	2.0	1	13.5	4.65	36.9	190	62.6	174	151	38	25
359	Warsaw, VA	VA22M-86	2	49.7	99.7	53	77.9	2.0	1	14.0	5.11	38.5	152	58.4	244	143	33	18
360	Warsaw, VA	VA22M-87	2	50.9	99.0	53	79.5	2.1	1	12.5	4.45	38.0	134	47.4	194	112	43	22
361	Warsaw, VA	VA22M-88	2	49.9	99.7	50	77.4	1.9	1	14.5	5.25	37.1	176	66.0	223	153	33	27
362	Warsaw, VA	VA22M-89	2	49.1	99.5	52	77.5	2.0	1	13.9	5.38	39.1	173	65.2	269	165	33	29
363	Warsaw, VA	VA22M-90	2	51.6	99.4	54	75.5	1.9	1	15.0	4.92	33.9	149	47.9	273	132	30	18
364	Warsaw, VA	VA22M-91	2	49.4	99.8	50	77.3	2.0	1	12.6	4.68	38.9	149	51.2	310	128	39	18
365	Warsaw, VA	VA22M-92	2	48.4	98.6	51	79.7	2.5	1	11.3	4.39	40.3	133	43.1	315	114	48	32
366	Warsaw, VA	VA22M-93	2	53.4	99.4	49	78.7	2.2	1	10.9	4.59	43.2	132	49.1	193	129	40	23
367	Warsaw, VA	VA22M-94	2	50.6	99.8	49	77.5	2.1	1	12.8	4.78	37.3	151	55.2	222	140	39	18
368	Warsaw, VA	VA22M-95	2	49.8	99.4	54	79.4	2.7	1	11.3	4.40	42.2	116	45.9	261	116	45	32
369	Warsaw, VA	VA22M-96	2	49.3	99.1	55	79.0	2.2	1	12.0	4.99	42.2	145	49.8	201	145	49	20
370	Warsaw, VA	VA22M-97	2	47.8	99.5	48	78.5	2.8	2	12.2	4.63	39.8	125	41.1	432	119	39	19
371	Warsaw, VA	VA22M-98	2	48.2	99.3	56	80.8	1.9	1	11.3	4.56	42.4	116	45.5	199	116	45	33
372	Warsaw, VA	VA22M-99	2	50.6	99.5	46	78.9	1.8	1	12.5	4.75	39.8	124	49.8	218	129	40	17
373	Warsaw, VA	VA22M-100	2	41.6	93.9	52	79.8	1.9	1	10.8	4.18	39.9	110	41.0	292	110	34	38
374	Warsaw, VA	VA22M-101	2	48.3	99.4	50	80.3	2.1	1	10.0	4.33	44.6	119	42.9	241	113	40	40
375	Warsaw, VA	VA22M-102	2	46.1	99.6	57	80.0	2.7	2	11.5	4.39	39.5	138	40.4	466	108	42	31
376	Warsaw, VA	VA22M-103	2	48.6	99.7	52	79.0	1.8	1	12.5	4.69	39.5	154	48.2	360	131	40	23
377	Warsaw, VA	VA22M-104	2	47.1	99.6	52	79.1	2.3	1	12.6	4.41	37.7	149	50.1	452	132	43	25
378	Warsaw, VA	VA22M-105	2	50.4	99.5	49	78.8	n.d.	3	12.3	4.31	37.1	132	41.8	407	109	38	20
379	Warsaw, VA	VA22M-106	2	47.4	99.6	53	79.2	n.d.	3	11.2	4.23	39.1	133	39.3	254	109	34	27
380	Warsaw, VA	VA22M-107	2	47.7	99.4	48	77.2	2.4	1	13.1	4.60	36.2	149	43.9	525	133	31	21
381	Warsaw, VA	VA22M-108	2	46.2	98.4	50	78.1	2.4	1	13.3	4.49	35.7	127	46.7	544	129	35	22
382	Warsaw, VA	VA22M-109	2	44.3	98.7	46	77.5	2.3	1	13.5	4.64	35.0	150	52.5	436	137	34	21
383	Warsaw, VA	VA22M-110	2	46.6	99.1	49	76.5	2.5	2	14.6	4.66	33.2	168	53.2	501	142	28	20
384	Warsaw, VA	VA22M-111	2	48.2	99.4	52	79.9	n.d.	3	12.5	4.65	39.1	139	58.8	302	140	44	24
385	Warsaw, VA	VA22M-112	2	47.5	99.5	53	79.4	n.d.	3	10.8	4.32	42.1	125	42.9	262	114	41	27
386	Warsaw, VA	VA22M-113	2	45.1	99.1	54	79.1	2.7	1	11.4	4.42	39.3	84	56.0	212	134	36	32
387	Warsaw, VA	VA22M-114	2	47.2	99.6	57	79.8	3.0	2	10.0	4.33	46.0	107	44.9	319	125	39	38
388		CONRAD MALT CHECK	2	40.9	98.5	90	84.1	2.9	1	12.2	5.82	50.2	126	103.1	166	249	53	23
389	Warsaw, VA	VA22M-115	2	45.5	98.5	50	79.5	n.d.	3	11.5	4.18	39.9	101	46.2	382	122	38	37
390	Warsaw, VA	VA22M-116	2	46.3	99.2	51	80.2	n.d.	3	11.1	4.16	40.1	90	48.7	388	117	39	32
391	Warsaw, VA	VA22M-117	2	51.4	99.5	47	78.6	2.9	2	11.7	4.30	39.8	118	45.1	399	128	36	26
392	Warsaw, VA	VA22M-118	2	49.0	98.7	49	80.1	2.9	2	11.1	4.22	38.7	118	43.7	357	130	39	34
393	Warsaw, VA	VA22M-119	2	51.7	99.4	50	78.7	n.d.	3	11.2	4.12	39.2	109	34.8	506	105	31	34
394	Warsaw, VA	VA22M-120	2	52.5	99.7	54	78.6	2.9	2	12.0	4.72	42.0	139	48.2	240	156	44	23
395	Warsaw, VA	Flavia	2	46.4	99.4	50	80.5	3.3	1	10.8	4.16	41.4	113	36.7	250	110	36	41
396	Warsaw, VA	VA22M-125	2	52.5	99.1	56	79.4	2.8	1	11.5	4.74	44.7	122	46.0	253	156	48	22
397	Warsaw, VA	VA22M-126	2	50.1	99.5	50	79.3	3.2	1	11.2	4.70	42.6	104	42.5	471	142	42	35

2022 Crop Year Breeders' Submissions

Lab No.	Location	Variety or Selection	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agron)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (*ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)	Adjunct Quality Score	All Malt Quality Score
398	Warsaw, VA	VA22M-127	2	47.9	99.7	44	78.3	2.8	1	11.2	4.66	42.9	100	39.3	366	142	38	35
399	Warsaw, VA	VA22M-128	2	39.1	93.7	53	79.1	3.8	2	10.5	4.23	43.8	72	43.3	452	120	29	28
400	Warsaw, VA	VA22M-129	2	51.0	99.7	53	80.4	2.9	1	12.8	4.98	41.0	119	40.6	260	172	49	32
401	Warsaw, VA	VA22M-130	2	45.7	98.1	46	80.0	2.5	1	11.4	4.69	44.7	117	48.8	325	153	45	38
402	Warsaw, VA	VA22M-131	2	42.5	98.8	50	79.0	2.5	1	12.3	4.82	42.0	167	58.0	272	144	52	20
403	Warsaw, VA	VA22M-132	2	43.5	98.2	47	78.9	2.7	1	12.3	4.69	40.6	158	55.8	381	143	48	23
404	Warsaw, VA	VA22M-133	2	48.5	99.7	54	79.1	2.6	1	11.9	5.29	45.8	128	57.4	433	175	52	19
405	Warsaw, VA	VA22M-134	2	43.2	99.2	54	79.4	2.4	1	12.6	4.99	42.5	151	54.3	256	159	52	24
406	Warsaw, VA	VA22M-135	2	44.3	98.8	46	79.7	2.5	1	11.6	4.52	42.5	154	58.7	345	136	51	26
407	Warsaw, VA	VA22M-136	2	44.5	99.3	47	80.3	2.9	1	11.6	4.99	45.9	108	54.8	348	169	52	31
408	Warsaw, VA	VA22M-137	2	48.9	99.3	51	80.8	3.8	1	10.9	4.56	43.9	124	38.0	508	145	39	31
409	Warsaw, VA	VA22M-138	2	46.2	98.8	47	80.7	3.1	1	12.1	4.70	39.0	153	42.0	397	157	43	30
410	Warsaw, VA	VA22M-139	2	43.1	98.4	49	79.5	3.1	1	11.4	4.40	42.2	116	39.3	418	130	41	35
411	Warsaw, VA	VA22M-140	2	44.4	99.4	49	78.5	2.9	1	12.1	4.35	38.6	104	42.7	423	123	37	29
412	Warsaw, VA	VA22M-141	2	46.0	99.0	56	77.1	2.2	1	12.9	4.95	40.0	131	50.3	378	166	43	24
413	Warsaw, VA	VA22M-142	2	44.7	99.3	49	79.2	2.9	2	12.8	4.47	36.4	84	39.7	437	126	28	21
414	Warsaw, VA	VA22M-143	2	47.9	98.8	42	79.6	2.3	1	11.6	4.52	39.5	125	52.5	426	140	46	26
415	Warsaw, VA	VA22M-144	2	43.7	98.9	46	80.4	n.d.	3	11.9	4.56	39.7	126	38.7	322	125	37	23
416	Warsaw, VA	VA22M-145	2	45.6	98.6	48	80.1	2.5	1	12.2	4.59	40.8	117	40.5	168	145	45	31
417	Warsaw, VA	VA22M-146	2	46.7	98.9	48	79.0	2.5	1	12.5	4.63	39.7	139	38.2	393	138	36	23
418	Warsaw, VA	VA22M-147	2	47.6	99.3	44	79.1	2.3	2	12.0	4.26	36.2	140	31.1	308	113	35	21
419		CONRAD MALT CHECK	2	40.9	98.4	89	84.9	3.2	1	12.0	5.81	49.8	125	101.0	154	256	53	23
420	Warsaw, VA	VA22M-148	2	49.6	99.6	46	78.9	n.d.	3	12.1	4.29	37.1	155	30.6	362	109	34	20
421	Warsaw, VA	VA22M-149	2	47.9	99.2	50	80.3	2.5	1	11.3	4.47	41.9	131	52.1	295	139	51	37
422	Warsaw, VA	VA22M-150	2	49.2	98.6	46	79.5	n.d.	3	11.6	4.13	38.4	82	39.3	215	106	30	23
423	Warsaw, VA	VA22M-151	2	41.6	94.7	47	80.4	2.2	1	12.9	4.68	37.9	125	52.6	243	153	45	29
424	Warsaw, VA	VA22M-152	2	50.1	99.3	48	80.1	n.d.	3	11.8	4.50	39.1	139	35.7	233	126	37	23
425	Warsaw, VA	VA22M-153	2	47.7	99.2	48	79.3	2.4	2	11.7	4.30	37.0	136	32.2	285	115	35	21
426	Warsaw, VA	VA22M-154	2	51.5	99.1	44	80.0	2.4	1	12.6	4.52	37.4	130	46.4	260	134	43	24
427	Warsaw, VA	VA22M-155	2	48.2	99.3	49	78.4	n.d.	3	13.0	4.29	33.7	123	33.9	348	104	29	20
428	Warsaw, VA	VA22M-156	2	48.6	98.8	49	80.7	n.d.	3	11.4	4.12	37.4	138	39.7	319	111	37	30
429	Warsaw, VA	VA22M-157	2	52.0	98.8	43	79.3	n.d.	3	11.7	4.06	36.8	127	36.5	264	103	34	16
430	Warsaw, VA	VA22M-158	2	51.3	99.0	49	79.4	2.7	2	11.8	4.87	41.9	151	50.0	151	158	54	23
431	Warsaw, VA	VA22M-159	2	51.1	99.1	55	82.6	4.1	2	11.5	4.27	39.8	137	42.6	447	110	45	38
432	Warsaw, VA	VA22M-160	2	47.4	98.2	46	79.5	2.2	1	11.3	4.38	40.6	75	41.2	395	134	41	32
433	Warsaw, VA	Thoroughbred	6	35.5	96.2	55	80.0	2.2	1	10.6	4.11	41.1	119	48.9	544	125	31	N/A
434	Warsaw, VA	Avalon	2	43.3	98.4	48	80.0	2.4	1	12.4	4.95	43.0	166	65.5	133	183	61	33
435	Warsaw, VA	Violetta	2	42.1	98.0	46	79.7	2.0	1	11.8	4.73	42.0	169	50.9	213	144	51	23
436	Warsaw, VA	VA22M-165	2	48.6	98.7	49	79.1	2.2	1	11.9	4.52	38.7	84	44.0	402	139	33	21
437	Warsaw, VA	VA22M-166	2	44.9	98.6	50	78.4	2.2	1	12.0	4.55	39.9	97	41.8	359	129	33	23
438	Warsaw, VA	VA22M-167	2	51.4	98.7	47	79.5	2.2	1	11.4	4.55	41.0	76	45.7	379	137	41	31
439	Warsaw, VA	VA22M-168	2	46.2	98.1	48	78.0	2.2	1	12.0	4.47	38.9	89	39.7	291	131	29	25
440	Warsaw, VA	VA22M-169	2	48.0	99.3	48	78.1	2.1	1	12.8	4.60	38.7	171	40.9	252	128	40	18
441	Warsaw, VA	VA22M-170	2	52.5	99.3	55	79.1	2.0	1	13.4	4.52	34.7	122	50.9	353	145	38	21
442	Warsaw, VA	VA22M-171	2	49.5	98.8	53	79.9	2.5	1	11.3	4.49	40.3	126	44.8	360	130	48	32
443	Warsaw, VA	VA22M-172	2	49.8	99.2	52	78.3	2.1	1	11.8	4.63	39.7	139	44.9	307	141	40	23
444	Warsaw, VA	VA22M-173	2	51.9	99.4	59	80.2	2.7	2	11.5	4.48	41.0	113	42.1	309	137	44	38
445	Warsaw, VA	VA22M-174	2	47.5	99.6	46	78.7	2.2	1	13.1	5.23	41.4	196	60.9	175	177	47	24
446	Warsaw, VA	VA22M-175	2	45.5	99.4	46	78.6	2.3	1	11.9	4.58	40.7	158	44.7	259	140	45	23
447	Warsaw, VA	VA22M-176	2	46.5	99.3	55	78.6	1.9	1	12.7	4.10	33.3	115	41.8	381	117	37	25
448	Warsaw, VA	VA22M-177	2	50.5	99.6	55	78.8	2.2	1	12.4	4.74	38.4	94	44.8	217	140	33	18
449	Warsaw, VA	VA22M-178	2	47.9	99.3	49	78.6	2.1	1	11.8	4.51	41.3	117	48.2	233	131	42	26
450		CONRAD MALT CHECK	2	41.2	98.5	88	84.4	3.3	1	12.4	6.02	53.0	120	95.3	61	274	57	30
451	Warsaw, VA	VA22M-179	2	46.7	99.2	49	79.6	2.0	1	12.3	5.06	42.5	107	67.7	131	182	58	38
452	Warsaw, VA	VA22M-180	2	49.0	99.7	46	77.7	2.3	1	12.4	4.67	38.1	131	38.5	264	130	32	21
453	Warsaw, VA	VA22M-181	2	50.0	99.5	50	80.0	2.4	1	11.6	4.70	42.0	125	45.5	247	139	48	26
454	Warsaw, VA	VA22M-182	2	49.0	99.2	54	81.4	2.4	1	11.5	4.51	41.8	131	42.1	211	134	51	33
455	Warsaw, VA	VA22M-183	2	46.4	99.3	50	79.5	2.8	2	11.5	4.21	37.4	101	30.9	394	98	35	36
456	Warsaw, VA	VA22M-184	2	49.0	99.3	49	78.9	2.1	1	12.3	4.44	36.7	156	43.1	233	119	40	22
457	Warsaw, VA	VA22M-185	2	47.1	99.4	41	78.2	2.3	1	12.5	4.41	37.2	149	35.9	370	105	36	22
458	Warsaw, VA	VA22M-186	2	49.2	99.4	45	80.8	2.2	1	11.0	4.37	43.6	131	41.8	270	117	43	32
459	Warsaw, VA	VA22M-187	2	48.3	99.3	45	80.4	2.4	1	11.9	4.51	39.3	147	41.5	191	129	43	25
460	Warsaw, VA	VA22M-188	2	50.3	98.8	50	80.9	2.1	1	11.4	4.49	40.7	138	47.0	265	138	48	37
461	Warsaw, VA	VA22M-189	2	48.7	99.7	49	79.9	2.2	1	11.4	4.60	43.4	172	44.5	141	144	51	32
462	Warsaw, VA	VA22M-190	2	49.8	99.6	45	79.2	2.4	1	11.4	4.42	41.0	121	30.7	171	120	41	29
463	Warsaw, VA	VA22M-191	2	44.8	98.5	43	80.7	2.6	1	12.0	5.13	43.5	91	68.0	189	183	51	28

2022 Crop Year Breeders' Submissions

Lab No.	Location	Variety or Selection	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agron)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (*ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)	Adjunct Quality Score	All Malt Quality Score
464	Warsaw, VA	VA22M-192	2	45.6	99.3	37	79.8	2.5	1	12.2	4.46	37.5	145	41.8	363	124	43	25
465	Warsaw, VA	VA22M-193	2	49.4	99.1	47	79.2	2.4	1	12.7	4.95	41.9	159	57.3	189	154	52	24
466	Warsaw, VA	VA22M-194	2	50.7	99.0	47	79.0	2.5	1	12.7	4.63	38.3	170	44.1	221	136	40	21
467	Warsaw, VA	VA22M-195	2	50.5	99.8	42	78.7	2.5	1	12.2	4.69	41.7	140	44.5	237	147	45	23
468	Warsaw, VA	VA22M-196	2	45.4	98.5	42	81.3	2.3	1	11.4	4.90	46.9	157	57.1	113	173	61	32
469	Warsaw, VA	VA22M-197	2	47.6	98.6	43	80.1	2.2	1	11.0	4.49	42.2	157	43.2	161	133	48	37
470	Warsaw, VA	VA22M-198	2	48.4	99.5	42	78.9	2.4	1	13.0	4.77	38.2	197	38.1	108	148	34	21
471	Warsaw, VA	VA22M-199	2	48.3	98.6	50	79.4	2.4	1	13.1	4.75	38.1	105	44.1	237	159	35	29
472	Warsaw, VA	VA22M-200	2	50.0	99.4	48	79.5	2.4	1	11.6	4.39	38.7	145	30.9	336	124	39	22
473	Warsaw, VA	Calypso	2	47.0	98.9	51	80.0	2.4	1	12.0	4.21	37.2	152	36.3	176	104	39	25
474	Warsaw, VA	VA22M-205	2	52.2	99.2	56	79.8	2.1	1	12.5	5.00	42.5	90	44.3	121	157	48	30
475	Warsaw, VA	VA22M-206	2	42.1	97.5	54	79.3	2.1	1	10.8	4.08	41.1	106	49.1	182	98	37	32
476	Warsaw, VA	VA22M-207	2	45.9	99.0	57	80.7	2.7	2	12.0	4.67	40.9	74	48.4	179	116	40	24
477	Warsaw, VA	VA22M-208	2	45.4	99.5	55	78.5	2.1	1	12.9	5.10	41.7	118	70.7	123	153	52	35
478	Warsaw, VA	VA22M-209	2	45.4	97.1	53	79.8	2.9	2	11.0	4.15	39.7	107	37.1	312	107	35	38
479	Warsaw, VA	VA22M-210	2	38.3	96.8	47	80.5	4.2	2	11.7	5.09	44.4	113	44.2	284	142	45	26
480	Warsaw, VA	VA22M-211	2	43.1	98.6	51	80.0	2.0	1	11.5	4.24	38.8	124	41.8	209	93	43	32
481	Warsaw, VA	CONRAD MALT CHECK	2	41.0	98.0	87	83.1	3.1	1	11.6	6.18	57.6	122	101.5	24	263	57	30
482	Warsaw, VA	VA22M-212	2	43.1	98.8	52	78.7	n.d.	3	11.9	4.59	39.6	106	42.7	390	123	35	25
483	Warsaw, VA	VA22M-213	2	42.8	99.2	51	80.6	2.0	1	10.0	4.27	43.1	118	42.5	155	106	40	40
484	Warsaw, VA	VA22M-214	2	46.7	98.9	59	78.7	n.d.	3	12.1	4.54	38.2	113	37.2	281	105	31	23
485	Warsaw, VA	VA22M-215	2	43.4	99.0	49	79.2	3.2	2	10.8	4.18	41.2	81	39.6	336	90	28	28
486	Warsaw, VA	VA22M-216	2	41.9	97.2	59	79.2	2.0	1	11.3	4.68	42.3	129	45.1	270	142	44	27
487	Warsaw, VA	VA22M-217	2	46.3	98.4	56	80.2	n.d.	3	11.7	4.26	39.7	115	39.0	254	116	34	34
488	Warsaw, VA	VA22M-218	2	45.5	99.2	54	78.6	3.4	2	12.0	4.43	38.4	119	37.1	361	120	32	24
489	Warsaw, VA	VA22M-219	2	40.7	97.5	53	79.1	2.7	1	10.1	3.85	40.2	102	39.1	290	91	29	33
490	Warsaw, VA	VA22M-220	2	43.8	98.4	43	80.2	2.8	1	10.7	3.88	37.2	90	33.3	373	97	24	25
491	Warsaw, VA	VA22M-221	2	41.1	97.9	56	79.5	3.0	2	10.9	4.31	39.5	86	47.3	405	112	29	27
492	Warsaw, VA	VA22M-222	2	43.3	98.1	58	79.5	2.7	2	11.0	4.12	38.7	121	33.1	401	100	33	29
493	Warsaw, VA	VA22M-20DH0998	2	39.3	99.3	47	79.1	2.3	1	12.6	5.15	42.2	79	57.3	290	153	42	21
494	Warsaw, VA	VA22M-20DH1001	2	44.0	98.7	46	81.3	2.5	1	11.5	5.05	47.5	147	64.8	58	165	60	31
495	Warsaw, VA	VA22M-20DH1009	2	44.5	99.3	56	81.4	2.2	1	10.4	4.63	46.4	136	53.9	52	141	56	40
496	Warsaw, VA	VA22M-20DH1014	2	44.9	97.9	54	79.4	2.5	1	11.4	4.23	37.7	144	46.7	71	114	50	34
497	Warsaw, VA	VA22M-20DH1015	2	36.8	86.7	59	79.0	2.2	1	10.0	3.91	42.6	87	34.7	171	88	19	23
498	Warsaw, VA	VA22M-20DH1021	2	39.7	94.8	46	80.9	2.6	1	10.8	4.26	41.2	122	46.8	85	109	47	38
499	Warsaw, VA	VA22M-20DH1026	2	36.9	96.1	55	80.0	2.1	1	11.1	4.31	39.8	134	53.1	61	109	48	36
500	Warsaw, VA	VA22M-20DH1027	2	34.7	89.9	49	80.2	2.8	1	10.5	4.73	46.5	110	57.4	107	138	39	28
501	Warsaw, VA	VA22M-20DH1054	2	43.3	95.5	53	79.8	2.5	1	12.6	4.04	34.2	131	49.2	170	100	43	21
502	Warsaw, VA	VA22M-20DH1058	2	36.2	97.0	52	81.5	2.2	1	11.1	4.24	40.9	142	58.9	132	116	52	37
503	Warsaw, VA	VA22M-20DH1070	2	39.5	97.5	56	79.8	2.0	1	11.3	4.48	41.9	115	42.0	127	119	45	35
504	Warsaw, VA	VA22M-20DH1071	2	39.9	81.4	49	79.3	2.4	1	10.1	4.16	41.2	128	51.1	40	114	42	33
505	Warsaw, VA	VA22M-20DH1074	2	43.1	96.6	56	81.1	2.8	1	10.6	4.60	44.4	135	46.6	49	142	53	38
506	Warsaw, VA	VA22M-20DH1079	2	44.8	95.6	61	79.9	2.3	1	9.9	4.11	43.0	136	45.3	229	104	43	35
507	Warsaw, VA	VA22M-20DH1081	2	46.2	99.5	47	81.6	2.2	1	10.9	4.47	41.6	145	59.2	55	140	56	49
508	Warsaw, VA	VA22M-20DH1085	2	47.3	98.6	53	80.6	2.6	1	12.2	4.92	43.1	158	54.6	50	157	62	34
509	Warsaw, VA	VA22M-20DH1087	2	44.0	99.4	46	79.7	2.1	1	13.2	4.77	38.0	179	67.1	195	147	41	26
510	Warsaw, VA	VA22M-20DH1094	2	42.9	99.6	46	78.6	3.3	1	14.2	5.06	38.3	159	43.4	54	146	41	25
511	Warsaw, VA	Avalon	2	42.3	98.3	53	80.3	2.0	1	10.9	4.50	43.9	147	64.3	151	138	46	35
512	Warsaw, VA	CONRAD MALT CHECK	2	40.8	98.2	90	84.7	2.6	1	11.5	5.84	52.5	121	107.1	111	227	56	26
513	Warsaw, VA	VA21M-245	2	41.0	98.8	56	80.8	2.1	1	10.0	4.38	47.2	132	53.8	133	137	43	39
514	Warsaw, VA	VA22M-20DH1101	2	43.9	98.7	48	80.1	2.2	1	12.6	4.23	35.9	112	39.1	229	116	36	34
515	Warsaw, VA	VA22M-20DH1110	2	48.2	99.1	47	80.3	2.1	1	11.3	4.63	43.3	196	54.9	200	151	51	35
516	Warsaw, VA	VA22M-20DH1168	2	41.9	98.9	45	81.0	2.1	1	10.3	4.45	43.3	133	54.2	118	139	48	42
517	Warsaw, VA	VA22M-20DH1273	2	42.2	99.4	54	81.1	2.0	1	10.6	4.22	40.9	135	57.3	176	129	49	34
518	Warsaw, VA	VA22M-20DH1278	2	42.9	99.1	53	80.3	2.2	1	11.4	4.24	38.6	132	58.4	144	132	49	38
519	Warsaw, VA	VA22M-20DH1287	2	44.3	98.9	58	81.7	2.2	1	10.2	4.04	42.9	138	45.4	140	110	49	43
520	Warsaw, VA	VA22M-20DH1290	2	40.3	99.0	49	79.7	2.0	1	12.2	4.11	35.7	118	43.3	323	102	39	27
521	Warsaw, VA	VA22M-20DH1298	2	41.5	99.0	48	79.0	2.9	1	13.4	4.80	36.4	161	63.7	86	182	51	24
522	Warsaw, VA	VA22M-20DH1299	2	42.6	98.9	56	80.8	2.8	2	10.6	3.97	39.5	117	41.6	75	120	38	39
523	Warsaw, VA	VA22M-20DH1304	2	42.1	99.2	51	80.9	2.4	1	10.3	3.91	39.4	113	44.4	244	114	32	42
524	Warsaw, VA	VA22M-20DH1306	2	38.5	96.3	63	80.6	n.d.	3	9.2	3.74	42.1	119	46.6	82	117	39	32
525	Warsaw, VA	VA22M-20DH1308	2	39.8	97.2	53	79.6	n.d.	3	9.6	3.66	38.4	93	35.5	502	102	19	18
526	Warsaw, VA	VA22M-20DH1315	2	42.0	99.3	44	80.3	2.8	1	12.1	4.54	39.5	157	61.9	128	168	48	34
527	Warsaw, VA	VA22M-20DH1319	2	40.4	97.1	58	81.0	n.d.	3	10.5	4.07	39.1	91	43.6	267	131	28	30
528	Warsaw, VA	VA22M-20DH1327	2	43.1	98.0	54	80.3	2.8	2	11.2	3.88	36.4	109	47.5	276	121	36	31
529	Warsaw, VA	VA22M-20DH1328	2	44.8	99.4	51	80.0	2.7	2	11.9	4.55	38.2	162	44.7	46	154	49	34

2022 Crop Year Breeders' Submissions

Lab No.	Location	Variety or Selection	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agron)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (*ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)	Adjunct Quality Score	All Malt Quality Score
530	Warsaw, VA	VA22M-20DH1329	2	43.3	99.4	57	79.7	2.3	2	12.4	4.13	33.9	158	50.3	259	122	45	24
531	Warsaw, VA	VA22M-20DH1334	2	40.9	99.0	53	81.0	2.7	2	11.9	4.22	37.9	130	46.8	113	152	44	35
532	Warsaw, VA	VA22M-20DH1335	2	44.7	99.3	51	80.5	2.4	1	11.4	4.27	39.3	128	56.1	140	149	49	40
533	Warsaw, VA	VA22M-20DH1337	2	41.8	98.6	51	81.1	2.4	2	11.9	4.24	37.9	140	47.3	387	147	44	28
534	Warsaw, VA	VA22M-20DH1349	2	40.1	97.0	56	80.9	n.d.	3	11.0	3.73	35.0	126	39.4	240	110	28	22
535	Warsaw, VA	VA22M-20DH1350	2	45.3	98.8	44	81.9	2.4	1	11.6	4.04	36.5	149	51.3	212	139	49	31
536	Warsaw, VA	VA22M-20DH1353	2	39.3	98.1	55	79.1	2.3	2	12.2	3.77	31.5	105	38.9	424	118	26	18
537	Warsaw, VA	VA22M-20DH1357	2	43.3	98.8	51	80.0	2.3	2	11.6	4.01	35.4	143	39.6	136	117	41	23
538	Warsaw, VA	VA22M-20DH1358	2	46.7	99.5	50	80.3	2.5	2	11.8	4.33	38.5	159	48.8	180	141	42	29
539	Warsaw, VA	VA22M-20DH1370	2	44.5	98.6	63	79.5	n.d.	3	12.5	3.66	29.4	154	52.4	235	114	41	13
540	Warsaw, VA	VA22M-20DH1371	2	39.8	97.1	58	79.6	n.d.	3	10.9	3.33	32.7	106	42.3	216	99	27	25
541	Warsaw, VA	VA22M-20DH1397	2	47.2	99.4	45	81.1	2.8	1	12.3	4.14	34.9	196	63.3	72	171	56	41
542	Warsaw, VA	VA22M-20DH1399	2	43.9	99.0	43	80.8	2.7	1	12.0	3.76	33.2	108	52.8	176	133	40	30
543		CONRAD MALT CHECK	2	41.2	98.1	89	85.2	3.5	1	12.3	4.78	42.2	117	99.4	125	217	58	34
544	Warsaw, VA	VA22M-20DH1030	2	45.0	99.0	41	81.3	3.7	2	12.0	4.08	34.9	135	71.4	271	143	48	30
545	Warsaw, VA	VA22M-20DH1034	2	43.6	98.4	52	80.0	3.3	2	12.1	3.63	32.5	121	45.2	243	116	39	17
546	Warsaw, VA	VA22M-20DH1180	2	43.9	99.3	54	81.7	2.9	1	11.3	3.75	35.2	153	48.8	131	121	46	33
547	Warsaw, VA	VA22M-20DH1182	2	45.2	99.4	50	79.8	2.7	1	11.7	3.65	31.9	130	56.0	62	110	50	25
548	Warsaw, VA	VA22M-20DH1200	2	53.5	99.3	47	81.0	3.0	1	12.9	4.09	33.9	187	59.9	180	135	49	26
549	Warsaw, VA	VA22M-20DH1201	2	47.2	99.5	42	81.1	3.3	1	11.9	3.96	35.2	124	68.8	247	136	46	31
550	Warsaw, VA	VA22M-20DH1203	2	46.9	99.5	45	81.2	2.9	1	10.6	3.62	36.8	140	49.0	166	108	38	25
551	Warsaw, VA	VA22M-20DH1206	2	45.0	99.6	47	80.9	2.8	1	11.5	3.80	33.9	129	61.0	95	125	50	32
552	Warsaw, VA	VA22M-20DH1207	2	41.2	98.3	50	81.3	3.0	1	10.6	3.60	34.6	123	51.5	128	119	43	27
553	Warsaw, VA	VA22M-20DH1209	2	44.5	99.0	53	80.7	3.4	2	10.8	3.60	34.6	98	41.2	137	101	30	30
554	Warsaw, VA	VA22M-20DH1212	2	43.9	99.2	50	81.2	3.1	2	10.8	3.56	35.8	83	35.8	89	104	33	31
555	Warsaw, VA	VA22M-20DH1213	2	45.2	99.4	52	81.7	3.5	2	12.1	3.83	33.4	114	42.2	23	117	46	38
556	Warsaw, VA	VA22M-20DH1217	2	45.6	99.3	54	81.0	n.d.	3	10.8	3.45	34.8	98	38.0	360	93	25	26
557	Warsaw, VA	VA22M-20DH1250	2	40.0	98.5	53	80.4	3.0	1	10.5	3.33	32.9	102	34.6	144	79	28	37
558	Warsaw, VA	VA22M-20DH1253	6	40.0	97.3	60	80.2	3.3	1	10.3	3.50	36.0	122	37.3	51	93	38	N/A
559	Warsaw, VA	VA22M-20DH1255	2	45.5	99.0	56	81.0	3.3	1	10.8	3.74	35.3	127	40.7	118	109	41	28
560	Warsaw, VA	VA22M-20DH1421	2	47.5	99.5	57	80.2	4.0	2	11.1	3.64	33.5	98	44.4	101	92	35	30
561	Warsaw, VA	VA22M-20DH1422	2	44.3	99.0	54	80.7	3.1	1	11.7	3.82	33.0	139	46.5	44	115	47	27
562	Warsaw, VA	VA22M-20DH1427	2	46.5	99.5	49	81.9	3.8	1	10.3	4.27	42.3	132	59.1	88	157	56	58
563	Warsaw, VA	VA22M-20DH1428	2	49.7	99.6	47	80.1	2.9	1	11.7	3.64	32.2	139	43.1	116	92	43	23
564	Warsaw, VA	VA22M-20DH1434	2	44.4	98.8	57	80.0	3.1	1	11.3	3.83	37.1	111	43.9	48	104	44	37
565	Warsaw, VA	VA22M-20DH1438	2	49.2	99.7	47	80.6	3.0	1	12.8	4.13	34.0	168	56.9	147	124	49	30
566	Warsaw, VA	VA22M-20DH1451	2	43.9	98.6	48	81.1	2.8	1	11.5	3.81	33.7	152	44.7	136	103	46	23
567	Warsaw, VA	VA22M-20DH1454	2	42.4	99.3	48	79.7	3.1	1	11.4	3.76	34.3	106	34.4	365	94	33	30
568	Warsaw, VA	VA22M-20DH1456	2	42.3	97.4	49	79.4	2.9	1	12.0	3.71	31.9	152	42.4	101	86	40	18
569	Warsaw, VA	VA22M-20DH1457	2	38.6	97.5	51	79.5	2.8	1	12.6	3.63	30.6	136	47.9	190	90	37	12
570	Warsaw, VA	VA22M-20DH1464	2	39.1	96.6	47	79.9	2.8	1	11.3	3.73	33.8	150	54.6	81	105	47	27
571	Warsaw, VA	VA22M-20DH1474	2	44.1	98.8	46	79.6	2.6	1	11.2	3.78	34.6	135	54.4	146	96	46	26
572	Warsaw, VA	VA22M-20DH1492	2	48.5	99.3	53	81.3	3.0	1	11.6	4.12	37.7	175	52.3	96	138	56	37
573	Warsaw, VA	VA22M-20DH1509	2	50.1	99.4	60	79.8	2.5	1	12.8	3.98	33.0	200	38.9	58	114	43	28
574		CONRAD MALT CHECK	2	40.9	98.5	89	85.4	3.3	1	12.3	5.04	43.7	121	100.8	189	213	62	26
575	Warsaw, VA	VA22M-20DH1521	2	42.6	98.8	53	79.5	3.4	1	11.2	3.97	35.8	116	45.5	249	121	37	29
576	Warsaw, VA	VA22M-20DH1522	2	43.8	99.3	50	80.8	2.8	1	11.4	4.09	38.5	163	62.8	244	129	46	28
577	Warsaw, VA	VA22M-20DH1540	2	44.6	98.0	50	81.4	2.5	1	11.4	3.95	36.7	146	53.4	135	124	49	31
578	Warsaw, VA	VA22M-20DH1601	2	46.2	99.3	40	80.2	3.1	1	12.9	4.12	32.7	141	63.5	100	119	49	30
579	Warsaw, VA	VA22M-20DH1603	2	43.8	98.1	47	79.7	4.0	2	12.4	4.36	36.8	131	68.9	320	135	45	32
580	Warsaw, VA	VA22M-20DH1604	2	46.0	98.7	59	79.9	3.2	2	10.6	3.72	36.6	130	42.5	267	91	34	22
581	Warsaw, VA	VA22BFHB-372	2	44.6	99.4	47	78.4	2.6	1	13.3	4.23	33.0	165	47.8	166	132	35	25
582	Warsaw, VA	VA22BFHB-373	2	45.7	99.2	55	78.0	2.5	1	14.3	4.27	30.0	149	41.2	606	128	26	22
583	Warsaw, VA	VA22BFHB-374	2	50.4	99.5	47	79.5	2.9	1	13.3	4.28	33.3	162	44.4	365	128	38	22
584	Warsaw, VA	VA22BFHB-375	2	46.5	99.3	51	78.6	2.7	1	11.2	4.08	37.0	92	50.5	243	130	36	26
585	Warsaw, VA	VA22BFHB-376	2	45.0	99.4	52	78.6	2.9	1	12.9	4.50	37.0	122	62.7	219	167	43	25
586	Warsaw, VA	VA22BFHB-377	2	41.6	99.2	56	79.3	3.3	1	11.2	4.37	39.6	77	46.8	125	142	35	34
587	Warsaw, VA	VA22BFHB-378	2	48.2	99.6	50	78.4	2.8	1	12.1	4.31	36.1	106	38.3	246	147	33	32
588	Warsaw, VA	VA22BFHB-379	2	44.1	99.2	49	79.3	2.9	1	11.9	4.08	36.5	118	59.8	261	130	40	21
589	Warsaw, VA	VA22BFHB-380	2	44.4	99.2	48	79.5	2.7	1	11.9	4.13	36.1	107	50.5	277	124	43	32
590	Warsaw, VA	VA22BFHB-381	2	49.3	99.1	52	79.6	2.6	1	11.7	4.14	36.3	107	46.1	361	113	40	32
591	Warsaw, VA	VA22BFHB-382	2	39.0	98.1	43	80.5	2.6	1	10.7	3.96	37.2	63	48.9	521	124	25	25
592	Warsaw, VA	/A20MFHB-18DH515 (2R)	2	45.4	99.0	54	80.1	2.9	1	10.6	4.24	40.2	144	56.1	219	127	46	34
593	Warsaw, VA	VA20M-28 (2R)	2	43.4	98.6	48	78.8	2.4	1	12.9	3.91	30.7	154	34.7	596	101	33	18
594	Warsaw, VA	VA20MFHB-18DH553 LX	6	28.7	63.9	52	79.5	2.5	1	11.0	4.15	39.4	156	62.1	257	123	33	N/A
595	Warsaw, VA	VA20MFHB-18DH523 LX	6	29.8	70.4	48	79.7	2.8	1	12.2	4.04	34.0	141	57.2	354	122	35	N/A

2022 Crop Year Breeders' Submissions

Lab No.	Location	Variety or Selection	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agtron)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (*ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)	Adjunct Quality Score	All Malt Quality Score
596	Warsaw, VA	VA20M-8 (2R)	2	45.6	98.8	56	78.5	4.1	2	13.0	4.26	33.2	162	42.3	293	110	39	21
597	Warsaw, VA	VA21M-16	2	54.3	99.1	52	78.9	3.4	2	10.8	3.85	36.8	65	31.6	571	95	20	19
598	Warsaw, VA	VA21M-10	6	49.9	99.5	48	77.4	2.6	1	15.7	4.49	28.8	165	44.2	526	118	23	N/A
599	Warsaw, VA	VA21M-15	2	53.6	99.6	46	79.3	2.8	1	12.6	4.62	37.5	74	49.2	401	130	33	18
600	Warsaw, VA	VA21M-6	2	49.1	99.5	49	80.0	2.7	1	11.3	3.99	35.7	81	43.0	333	107	33	28
601	Warsaw, VA	VA21BFHB-19DH0302	2	44.2	99.3	47	79.3	4.2	2	11.2	3.87	35.7	79	48.1	530	83	29	19
602	Warsaw, VA	VA21M-21	2	50.2	99.7	50	78.6	2.8	1	12.1	4.24	36.0	77	44.9	484	113	33	22
603	Warsaw, VA	VA21M-25	2	48.3	99.4	59	79.8	3.0	1	11.4	4.16	36.8	66	42.9	567	112	36	30
604	Warsaw, VA	VA21BFHB-19DH0184	2	39.9	99.1	41	80.9	n.d.	3	10.0	4.37	43.8	51	54.7	152	144	34	35
605		TRADITION MALT CHECK	6	39.7	97.1	58	81.9	3.3	1	12.1	4.96	44.1	171	97.5	33	205	64	N/A
606	Warsaw, VA	VA21M-18	2	48.4	98.6	52	79.6	n.d.	3	11.1	3.54	34.3	125	39.1	558	94	34	21
607	Warsaw, VA	VA21M-23	2	51.5	99.4	56	80.2	3.8	2	10.7	3.75	38.1	68	35.7	541	107	23	24
608	Warsaw, VA	VA21M-7	6	50.4	99.0	50	80.5	3.0	1	11.7	4.25	38.6	71	48.5	262	118	36	N/A
609	Warsaw, VA	VA21BFHB-19DH0300	2	43.4	99.3	46	79.6	5.1	2	11.5	3.83	34.0	87	47.7	520	95	32	22
610	Warsaw, VA	VA21M-14	2	47.6	99.4	46	80.9	3.3	1	11.9	4.32	36.5	75	46.2	401	138	36	30
611	Warsaw, VA	VA21BFHB-19DH0203	2	34.9	94.8	48	81.5	n.d.	3	10.0	3.52	37.2	112	37.0	496	77	24	35
612	Warsaw, VA	VA21M-13	2	48.2	99.3	47	79.5	2.9	1	12.9	3.99	31.8	82	40.4	570	112	33	18
613	Warsaw, VA	VA21BFHB-19DH0117	2	40.2	98.6	42	80.8	5.3	2	10.5	4.16	41.3	90	49.9	392	122	34	37
614	Warsaw, VA	VA21M-12	2	45.8	99.5	48	78.2	4.4	2	12.9	4.31	35.3	109	37.4	552	145	32	31
615	Warsaw, VA	VA21BFHB-19DH0143	2	52.6	99.7	53	79.1	3.3	1	13.7	4.75	35.3	116	52.5	285	167	30	25
616	Warsaw, VA	VA21M-8	2	42.6	99.1	41	79.4	4.6	2	11.5	3.64	33.5	114	35.9	519	89	29	21
617	Warsaw, VA	VA21M-17	2	47.9	99.0	55	79.4	2.7	1	12.6	3.92	32.5	120	41.8	454	100	37	21
618	Warsaw, VA	VA21BFHB-19DH0015	2	46.6	99.6	46	82.3	n.d.	3	10.8	4.29	40.9	111	57.9	206	117	44	44
619	Warsaw, VA	VA21M-9	2	47.5	99.5	47	81.5	2.9	1	11.5	4.08	37.1	100	50.9	107	114	49	43
620	Warsaw, VA	VA21M-20	2	52.3	99.3	53	79.6	3.2	1	10.8	3.65	33.9	76	39.5	473	103	24	23
621	Warsaw, VA	VA21M-19	2	46.7	99.1	48	79.0	4.3	2	12.5	3.90	31.5	78	41.4	494	100	29	17
622	Warsaw, VA	VA21M-24	2	52.2	99.4	51	80.0	3.4	1	11.1	3.72	34.7	66	36.2	464	90	29	23
623	Warsaw, VA	VA21BFHB-19DH0303	2	35.6	97.0	48	82.4	n.d.	3	10.7	3.88	39.0	103	54.1	329	111	31	30
624	Warsaw, VA	VA21BFHB-19DH0314	2	35.4	97.6	49	81.5	n.d.	3	11.7	3.96	35.7	107	49.6	387	103	33	23
625	Eastern VA	VA19M-16DH2261	2	47.2	99.7	41	78.4	2.7	1	12.6	3.78	31.1	120	45.3	414	92	37	15
626	Eastern VA	VA20MFHB-18DH535	2	43.8	98.4	54	81.5	2.9	1	11.4	3.77	33.1	141	45.1	310	91	43	30
627	Eastern VA	VA19M-17DH0091 LX	6	32.5	88.6	55	79.8	2.8	1	10.6	3.55	33.6	78	41.6	430	94	31	N/A
628	Eastern VA	VA16M-84	2	48.6	99.4	51	81.4	3.1	1	11.8	3.91	34.7	98	46.3	431	121	36	26
629	Eastern VA	VA20MFHB-18DH532	2	43.3	99.2	51	81.7	3.4	1	10.7	3.78	38.3	139	55.2	358	163	41	37
630	Eastern VA	VA19M-17DH0102 LX	6	31.7	87.9	47	79.4	3.2	1	10.8	3.39	32.0	107	41.6	524	126	30	N/A
631	Eastern VA	VA18M-DH170740 LX	6	33.9	79.0	51	80.7	3.4	2	10.6	3.35	34.6	72	45.0	548	127	28	N/A
632	Eastern VA	VA17M-13DH1720 LX	6	31.3	84.5	55	78.7	n.d.	3	9.9	3.21	34.9	110	40.9	578	101	25	N/A
633	Eastern VA	VA20MFHB-18DH349	2	41.5	98.1	43	80.6	3.0	1	11.5	3.42	31.7	108	48.8	505	124	36	26
634	Eastern VA	VA19M-DH170073 LA	6	30.9	91.9	49	80.2	3.1	1	10.5	3.61	36.3	59	50.6	529	142	33	N/A
635	Eastern VA	VA20MFHB-18DH548 LX	6	31.6	82.4	52	80.3	n.d.	3	9.6	3.27	34.7	105	43.7	457	104	28	N/A
636		CONRAD MALT CHECK	2	40.4	98.1	88	84.8	3.5	1	11.7	4.21	38.2	120	101.4	193	203	51	33
637	Eastern VA	VA18M-DH162217	2	44.5	99.3	51	78.3	2.9	1	12.7	3.70	30.7	86	49.2	464	143	30	18
638	Eastern VA	VA19M-DH170735 LA	6	26.0	65.9	47	79.0	3.5	1	10.0	3.37	35.4	56	51.2	575	114	21	N/A
639	Eastern VA	VA19M-16DH2222 LX	6	31.0	78.8	47	80.6	3.2	1	11.1	3.49	33.4	98	45.0	586	122	28	N/A
640	Eastern VA	VA19M-DH170760 LA	6	28.3	83.8	51	79.8	3.5	1	11.0	3.54	32.7	68	50.2	600	128	31	N/A
641	Eastern VA	VA20MFHB-18DH533	2	42.4	98.2	57	80.9	n.d.	3	11.1	3.28	31.9	136	40.9	493	96	38	23
642	Eastern VA	VA20MFHB-18DH350	2	43.4	98.6	55	81.2	3.4	2	10.0	3.56	36.8	122	46.0	243	124	37	29
643	Eastern VA	ARS15812	2	47.9	99.0	52	81.4	3.2	1	11.0	3.78	35.7	60	54.0	502	153	34	32
644	Eastern VA	VA19M-DH170615 LX	6	34.6	89.0	53	81.0	3.1	1	10.3	3.63	38.0	76	54.1	421	144	34	N/A
645	Eastern VA	VA19M-DH161187 LX	6	33.3	78.7	48	80.5	3.2	1	9.8	3.67	39.3	77	58.8	479	150	32	N/A
646	Eastern VA	VA20MFHB-18DH524 LX	6	29.7	79.2	57	80.7	3.2	2	9.8	3.44	39.0	110	47.4	368	125	25	N/A
647	Eastern VA	VA20MFHB-18DH541	2	43.9	98.4	55	82.2	3.4	2	9.7	3.59	38.1	123	51.3	251	130	40	29
648	Eastern VA	ENDEAVOR	2	35.2	95.0	57	82.9	3.6	1	10.6	3.86	38.4	122	91.5	301	185	39	30
649	Eastern VA	VA20MFHB-18DH541	2	43.8	99.2	54	81.8	3.4	2	9.9	3.48	35.8	120	47.0	228	119	37	34
650	Eastern VA	VA17M-13DH1720	2	32.8	91.7	56	79.7	3.1	1	10.3	3.17	33.3	113	44.9	505	94	27	30
651	Eastern VA	Hirondella	6	39.1	97.1	50	81.3	3.7	2	8.4	3.20	38.3	105	43.1	571	102	30	N/A
652	Eastern VA	VA19M-16DH2261	2	47.4	99.6	43	77.9	3.1	2	12.5	3.50	29.0	111	44.6	573	113	29	21
653	Eastern VA	Thoroughbred	6	33.8	92.6	50	79.9	3.1	1	10.2	3.34	35.7	136	44.5	492	103	35	N/A
654	Eastern VA	Avalon	2	40.5	99.9	46	81.9	3.0	1	10.5	3.70	35.9	151	57.0	31	134	47	44
655	Eastern VA	Violetta	2	39.1	96.9	46	80.9	3.0	1	10.0	3.74	38.9	160	45.0	145	128	35	30
656	Eastern VA	Flavia	2	45.6	99.3	53	79.9	3.1	1	11.7	3.55	32.3	144	38.8	181	106	36	18
657	Eastern VA	ENDEAVOR	2	33.7	90.4	47	82.5	3.5	1	10.7	4.35	44.0	174	105.0	101	192	50	40
658	Eastern VA	VA22B-320	6	34.1	97.1	47	76.5	4.4	2	11.0	3.54	33.5	65	39.8	729	107	16	N/A
659	Eastern VA	VA22B-321	6	36.8	96.9	44	76.3	3.6	1	12.2	3.74	31.4	74	54.9	550	120	29	N/A
660	Eastern VA	VA22B-322	6	37.0	97.5	43	76.0	3.6	1	11.2	3.70	34.1	74	56.5	561	120	24	N/A
661	Eastern VA	VA22B-323	6	35.4	91.4	49	75.3	4.5	2	11.4	3.30	29.7	53	35.3	764	82	16	N/A

2022 Crop Year Breeders' Submissions

Lab No.	Location	Variety or Selection	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agron)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (*ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)	Adjunct Quality Score	All Malt Quality Score
662	Eastern VA	VA22B-324	6	35.5	96.7	41	77.6	4.4	2	10.8	3.77	37.0	60	47.7	633	116	20	N/A
663	Eastern VA	VA20BFHB-18DH362 SA	6	30.8	88.5	42	76.9	3.0	2	10.1	3.23	34.4	69	25.2	835	93	15	N/A
664	Eastern VA	VA20BFHB-18DH480 SA	6	29.0	80.1	42	78.6	4.6	2	12.2	3.74	33.2	56	45.6	738	122	29	N/A
665	Eastern VA	VA20BFHB-18DH475 SA	6	28.2	78.2	47	79.4	4.2	2	10.6	3.76	37.7	84	74.8	681	129	28	N/A
666	Eastern VA	VA20BFHB-18DH495 LX	6	32.1	92.3	48	77.6	3.4	2	12.4	3.74	32.8	69	47.5	765	116	25	N/A
667		TRADITION MALT CHECK	6	38.2	97.4	61	80.6	3.5	1	12.1	4.86	42.1	168	96.5	72	206	64	N/A
668	Eastern VA	VA21B-9 LA	6	33.0	93.6	49	77.5	3.6	1	11.6	3.72	33.3	79	44.8	722	117	26	N/A
669	Eastern VA	VA21B-12 LA	6	33.4	94.8	40	77.3	4.2	2	11.6	3.48	30.6	53	34.8	775	92	21	N/A
670	Eastern VA	VA21B-10 LA	6	36.2	95.6	44	79.1	4.4	2	11.8	3.66	33.4	50	40.0	774	105	35	N/A
671	Eastern VA	VA21BFHB-14 NA	6	32.6	87.4	37	77.1	4.1	2	10.2	3.46	35.0	98	43.6	733	92	20	N/A
672	Eastern VA	VA21B-5 LA	6	35.9	97.5	56	80.5	4.4	2	8.9	3.40	38.6	103	41.3	711	90	30	N/A
673	Eastern VA	VA21B-6 LA	6	35.5	95.3	41	79.1	3.7	1	11.5	3.42	30.1	96	36.9	778	84	32	N/A
674	Eastern VA	VA21B-7 LA	6	34.9	97.9	48	78.2	4.0	1	10.9	3.57	34.3	83	45.9	686	96	28	N/A
675	Eastern VA	VA21B-11 LA	6	33.6	93.3	44	78.0	4.1	2	10.8	3.57	33.2	69	43.0	780	98	24	N/A
676	Eastern VA	12W587-n-23	2	35.4	93.2	56	78.9	3.4	1	10.5	3.43	33.9	122	45.5	660	86	27	20
677	Eastern VA	12W587-n-28	2	35.9	96.0	56	79.9	3.6	1	10.3	3.25	32.9	87	51.2	444	113	26	23
678	Eastern VA	VA20BFHB-18DH416	2	38.0	95.3	65	82.9	3.2	1	7.2	3.45	49.7	119	81.3	33	158	40	41
679	Eastern VA	Flavia	2	32.6	94.5	36	76.3	4.2	1	10.9	3.19	29.8	64	37.7	541	118	12	15
680	Eastern VA	Thoroughbred	6	35.4	96.1	56	79.6	3.2	1	9.8	3.18	33.8	108	41.4	468	102	31	N/A
681	Eastern VA	Violetta	2	42.7	98.4	49	80.0	2.9	1	11.2	3.43	31.9	145	46.7	198	122	40	25
682	Eastern VA	Calypso	2	45.9	98.6	50	80.5	3.3	1	10.5	3.24	31.4	131	38.3	104	107	34	28
683	Eastern VA	ENDEAVOR	2	35.7	94.2	56	82.4	3.8	1	10.7	3.93	38.3	115	92.9	224	190	36	40
684	Eastern VA	Hirondella	6	36.8	94.9	49	79.1	3.6	1	10.2	3.18	33.6	98	38.6	524	94	27	N/A
685	Eastern VA	VA20BFHB-18DH547	6	33.4	89.3	64	79.9	3.1	1	9.6	3.28	36.8	109	45.6	148	117	34	N/A
686	Eastern VA	VA20BFHB-18DH420	2	40.7	98.8	61	80.8	4.2	2	10.2	3.45	36.1	124	39.6	31	124	36	35
687	Eastern VA	VA20BFHB-18DH352	2	42.5	94.8	54	80.7	3.5	1	10.4	3.44	35.4	105	45.5	83	118	39	44
688	Eastern VA	VA20BFHB-18DH543	2	49.5	99.2	63	81.6	2.8	1	9.5	3.78	42.2	162	73.6	52	172	53	51
689	Eastern VA	VA20BFHB-18DH417	2	44.5	98.5	60	83.1	2.9	1	7.7	3.39	48.7	116	64.0	68	143	45	40
690	Wooster, OH	I17-WE2-080	2	38.1	91.8	51	78.8	3.5	1	12.8	4.16	33.9	167	61.2	253	168	40	26
691	Wooster, OH	I17-WE3-081	2	38.1	94.2	54	79.6	4.3	2	11.6	3.60	33.8	120	47.5	363	131	36	17
692	Wooster, OH	I17-WO1-082	2	37.5	92.1	53	77.9	3.1	1	13.1	4.03	31.9	162	57.8	361	155	29	20
693	Wooster, OH	I17-WO2-083	2	39.2	94.7	56	78.6	3.4	1	11.7	3.80	33.0	148	54.6	343	139	37	15
694	Wooster, OH	I17-WO3-084	2	39.3	93.7	58	78.9	2.9	1	11.1	3.72	35.8	147	53.5	322	131	37	20
695	Wooster, OH	I20-IS1-085	2	33.4	81.6	56	79.7	3.0	1	12.9	3.83	31.3	137	53.7	268	136	33	11
696	Wooster, OH	I20-NC1-086	2	38.6	94.5	72	80.9	3.3	1	10.9	3.45	31.8	104	46.3	324	114	29	29
697	Wooster, OH	I20-NC2-087	2	36.7	92.2	70	81.3	3.3	1	11.3	3.50	32.8	108	44.3	291	106	35	27
698	Wooster, OH	CONRAD MALT CHECK	2	40.9	98.2	89	84.9	3.5	1	12.1	4.36	38.9	115	99.5	179	220	50	36
699	Wooster, OH	I20-NC3-088	2	37.8	92.7	71	81.1	3.6	1	10.9	3.34	33.2	114	49.7	229	112	30	27
700	Wooster, OH	I20-NW1-089	2	38.3	95.2	73	80.4	3.4	1	9.7	3.57	37.4	94	41.8	349	119	25	22
701	Wooster, OH	I20-NW2-090	2	38.5	96.9	75	81.7	4.7	2	10.7	3.50	35.2	102	44.3	471	101	31	33
702	Wooster, OH	I20-NW3-091	2	39.2	98.0	72	81.1	4.6	2	10.6	3.61	36.9	113	42.5	453	105	31	28
703	Wooster, OH	I20-WE1-092	2	36.3	92.4	54	81.5	3.6	1	11.8	3.96	34.3	108	52.3	194	134	38	28
704	Wooster, OH	I20-WE2-093	2	35.3	93.3	53	81.2	3.8	1	10.9	4.02	39.8	113	49.9	231	137	33	35
705	Wooster, OH	I20-WE3-094	2	35.9	93.8	52	81.1	3.9	1	11.4	3.87	35.0	106	49.8	269	134	35	30
706	Wooster, OH	I20-WO1-095	2	35.7	93.7	59	80.3	3.3	1	12.0	3.83	32.9	129	49.8	260	121	35	15
707	Wooster, OH	I20-WO2-096	2	37.1	94.9	60	81.8	3.4	1	10.7	3.79	38.2	119	47.6	264	114	30	28
708	Wooster, OH	I20-WO3-097	2	37.0	96.0	61	82.0	3.4	1	10.9	3.79	37.1	120	47.6	270	116	30	28
709	Wooster, OH	I23-IS1-098	2	38.7	97.2	59	80.6	4.8	2	12.0	4.09	35.7	150	64.7	240	128	42	19
710	Wooster, OH	I23-NC1-099	2	40.8	98.8	91	85.2	3.9	1	11.3	4.79	44.6	121	106.6	325	218	58	31
711	Wooster, OH	I23-NC2-100	2	45.1	99.1	66	79.2	5.5	2	11.5	4.46	40.3	145	67.4	146	161	50	43
712	Wooster, OH	I23-NC3-101	2	40.8	93.9	62	78.8	4.3	2	12.1	4.34	37.7	152	60.5	130	143	44	26
713	Wooster, OH	I23-NW1-102	2	37.3	90.0	82	76.4	n.d.	3	10.7	4.26	42.3	122	57.5	224	145	32	25
714	Wooster, OH	I23-NW2-103	2	44.9	98.8	66	79.3	n.d.	3	11.4	4.36	40.3	147	55.3	120	147	49	33
715	Wooster, OH	I23-NW3-104	2	44.4	98.8	64	79.2	n.d.	3	11.2	4.32	39.8	145	62.5	170	140	41	30
716	Wooster, OH	I23-WE1-105	2	40.1	97.6	51	78.2	4.1	1	12.7	4.28	33.8	147	62.5	213	146	42	24
717	Wooster, OH	I23-WE2-106	2	41.5	97.8	53	78.8	4.1	1	12.7	4.61	38.7	135	72.4	154	167	42	29
718	Wooster, OH	I23-WE3-107	2	37.9	95.2	54	78.0	4.0	1	12.6	4.31	34.8	151	59.9	224	145	34	20
719	Wooster, OH	I23-WO1-108	2	43.1	98.0	60	80.5	4.3	2	10.3	4.21	41.4	152	67.5	196	140	45	46
720	Wooster, OH	I23-WO2-109	2	43.0	98.7	57	79.0	3.7	1	12.4	4.32	36.1	157	62.5	187	141	43	25
721	Wooster, OH	I23-WO3-110	2	42.4	98.5	57	79.2	3.9	1	12.2	4.17	35.9	151	62.3	174	140	43	25
722	Wooster, OH	I25-IS1-111	2	34.5	87.4	65	80.5	2.9	1	10.7	4.03	38.3	123	52.3	384	126	34	21
723	Wooster, OH	I25-NC1-112	2	39.9	93.0	71	79.1	3.8	1	10.7	3.79	37.0	95	40.5	488	112	22	17
724	Wooster, OH	I25-NC2-113	2	41.7	94.5	67	79.4	3.1	1	11.0	4.02	38.0	105	45.2	352	131	39	32
725	Wooster, OH	I25-NC3-114	2	40.9	95.0	69	79.4	n.d.	3	10.5	3.63	35.5	104	40.4	443	123	26	29
726	Wooster, OH	I25-NW1-115	2	37.2	84.6	67	77.6	n.d.	3	10.8	3.88	38.2	95	39.6	457	137	5	11
727	Wooster, OH	I25-NW2-116	2	42.1	97.0	65	79.7	n.d.	3	10.5	3.91	40.4	93	41.8	481	141	31	29

2022 Crop Year Breeders' Submissions

Lab No.	Location	Variety or Selection	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agrton)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (*ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)	Adjunct Quality Score	All Malt Quality Score
728	Wooster, OH	I25-NW3-117	2	41.5	96.2	68	79.9	n.d.	3	10.6	3.82	39.6	97	44.8	423	128	25	29
729		CONRAD MALT CHECK	2	42.0	98.4	90	85.5	3.4	1	12.1	4.74	40.2	121	101.4	185	225	59	29
730	Wooster, OH	I25-WE1-118	2	37.0	90.1	58	78.7	3.9	1	12.2	4.29	38.2	106	58.2	276	159	35	31
731	Wooster, OH	I25-WE2-119	2	35.2	88.7	58	79.1	3.2	1	11.1	3.96	36.7	98	53.2	338	138	26	22
732	Wooster, OH	I25-WE3-120	2	33.6	82.1	59	78.3	3.2	1	12.1	4.06	35.6	117	52.2	267	139	30	14
733	Wooster, OH	I25-WO1-121	2	39.1	93.7	62	79.1	2.9	1	11.0	3.80	36.2	110	46.0	376	123	26	24
734	Wooster, OH	I25-WO2-122	2	38.7	94.5	66	80.0	3.1	2	10.5	3.74	38.4	112	45.5	386	116	28	31
735	Wooster, OH	I25-WO3-123	2	38.9	94.2	65	81.0	3.0	1	10.3	3.83	38.4	109	48.3	397	111	32	34
736	Wooster, OH	I27-IS1-124	2	33.6	89.7	58	81.0	3.3	1	8.8	3.62	43.1	108	64.4	148	122	36	28
737	Wooster, OH	I27-NC1-125	2	39.3	93.3	69	79.9	n.d.	3	10.6	3.55	34.7	107	49.0	344	116	27	25
738	Wooster, OH	I27-NC2-126	2	38.0	93.5	70	79.5	3.0	2	10.5	3.58	37.3	109	56.6	285	116	31	31
739	Wooster, OH	I27-NC3-127	2	38.0	92.3	67	79.3	3.1	2	10.4	3.47	35.1	107	53.4	319	104	28	28
740	Wooster, OH	I27-NW1-128	2	37.9	93.1	69	79.1	n.d.	3	10.3	3.61	36.0	98	50.5	309	102	21	21
741	Wooster, OH	I27-NW2-129	2	40.4	95.4	74	80.0	n.d.	3	10.8	3.50	33.7	98	52.5	369	99	28	25
742	Wooster, OH	I27-NW3-130	2	40.9	95.3	74	80.7	n.d.	3	10.4	3.61	37.5	98	51.3	356	113	28	30
743	Wooster, OH	I27-WE1-131	2	37.0	93.7	51	80.4	4.0	1	10.1	4.08	43.9	90	68.6	183	157	34	40
744	Wooster, OH	I27-WE2-132	2	36.8	92.9	54	79.9	3.8	1	9.5	3.94	42.8	82	66.6	162	129	31	28
745	Wooster, OH	I27-WE3-133	2	37.9	93.3	56	79.6	3.6	1	10.7	3.87	39.2	91	63.5	211	137	26	23
746	Wooster, OH	I27-WO1-134	2	38.9	96.2	61	80.0	3.3	1	9.9	3.74	38.2	104	60.4	229	125	32	32
747	Wooster, OH	I27-WO2-135	2	38.9	94.9	61	79.7	3.5	1	10.4	3.76	38.9	106	59.6	185	127	32	32
748	Wooster, OH	I27-WO3-136	2	37.5	93.2	61	80.2	3.4	1	10.7	3.76	35.8	100	60.8	254	118	30	27
749	Wooster, OH	I28-IS1-137	2	34.5	91.1	60	80.6	2.7	1	9.9	3.33	35.3	136	51.7	148	128	36	28
750	Wooster, OH	I28-NC1-138	2	39.5	94.7	75	78.7	2.9	2	10.9	3.22	31.7	108	37.9	412	118	21	23
751	Wooster, OH	I28-NC2-139	2	40.4	95.9	70	79.0	n.d.	3	10.8	3.19	30.9	112	39.3	370	111	22	24
752	Wooster, OH	I28-NC3-140	2	39.2	95.3	69	78.7	n.d.	3	10.8	3.10	29.8	109	37.8	417	108	20	22
753	Wooster, OH	I28-NW1-141	2	39.7	93.6	76	78.4	n.d.	3	9.9	3.11	33.2	95	36.0	438	105	16	20
754	Wooster, OH	I28-NW2-142	2	37.9	94.5	76	79.4	n.d.	3	9.1	3.22	36.1	95	37.6	366	113	17	16
755	Wooster, OH	I28-NW3-143	2	40.1	96.7	75	79.8	n.d.	3	11.1	3.30	32.1	115	41.7	417	116	34	27
756	Wooster, OH	I28-WE1-144	2	36.8	92.4	48	78.4	3.3	1	11.7	3.71	33.3	112	57.8	178	171	32	24
757	Wooster, OH	I28-WE2-145	2	39.0	95.6	58	79.0	2.9	1	11.0	3.31	30.5	101	47.3	314	140	31	27
758	Wooster, OH	I28-WE3-146	2	34.7	82.4	54	77.3	2.8	1	12.5	3.49	29.8	121	47.2	330	147	23	8
759	Wooster, OH	I28-WO1-147	2	37.7	92.6	57	78.4	2.7	1	11.6	3.34	30.6	116	44.7	270	129	29	13
760		CONRAD MALT CHECK	2	41.0	98.2	89	84.1	3.1	1	11.4	4.05	37.3	117	98.9	95	238	57	44
761	Wooster, OH	I28-WO2-148	2	38.6	94.1	58	78.8	2.8	1	10.9	3.32	31.3	119	47.9	236	127	26	20
762	Wooster, OH	I28-WO3-149	2	37.0	93.3	61	79.8	2.6	1	10.9	3.30	31.3	115	46.0	238	128	27	21
763	Wooster, OH	I30-IS1-150	2	33.9	87.5	50	80.1	3.4	1	12.8	3.75	31.7	135	53.7	244	169	36	20
764	Wooster, OH	I30-NC1-151	2	38.5	96.5	61	80.4	n.d.	3	11.0	3.41	31.6	117	42.0	158	132	32	26
765	Wooster, OH	I30-NC2-152	2	38.2	96.8	59	80.5	n.d.	3	11.6	3.42	31.6	120	38.5	131	143	31	24
766	Wooster, OH	I30-NC3-153	2	41.9	98.4	61	80.9	3.4	2	11.0	3.65	34.2	127	47.0	63	175	40	37
767	Wooster, OH	I30-NW1-154	2	40.4	97.7	63	81.9	n.d.	3	10.8	3.38	33.3	116	39.6	127	137	31	36
768	Wooster, OH	I30-NW2-155	2	38.6	98.0	67	82.3	n.d.	3	10.6	3.42	35.3	107	43.2	166	142	30	35
769	Wooster, OH	I30-NW3-156	2	41.6	98.3	64	82.2	n.d.	3	10.5	3.40	35.3	126	42.6	132	135	38	38
770	Wooster, OH	I30-WE1-157	2	36.2	94.0	48	81.1	3.9	1	11.7	3.72	34.4	109	53.3	135	177	41	32
771	Wooster, OH	I30-WE2-158	2	38.1	97.0	53	81.3	3.3	1	11.8	3.63	32.2	123	46.6	102	168	43	27
772	Wooster, OH	CK2-NC1-VIO	2	38.0	94.0	64	79.8	2.6	1	10.5	3.26	32.7	93	40.6	237	120	23	18
773		CONRAD MALT CHECK	2	40.8	98.5	89	84.5	3.2	1	11.5	4.49	41.9	122	101.5	193	248	58	40
774	Wooster, OH	I06-IS2-002	2	35.8	92.7	49	80.6	2.8	1	11.4	3.66	33.1	126	73.3	355	160	38	32
775		CONRAD MALT CHECK	2	40.8	98.7	89	84.4	3.4	1	11.5	4.47	41.6	113	102.8	257	241	55	42
776	Wooster, OH	I07-IS2-004	2	32.9	88.0	57	82.0	2.9	1	10.1	3.73	40.0	118	70.2	143	172	39	48
777	Wooster, OH	I38-IS1-005	2	36.9	91.4	52	78.9	2.7	1	10.7	3.61	35.4	106	54.3	424	133	27	25
778	Wooster, OH	I38-IS2-006	2	37.5	97.7	53	78.9	3.5	2	11.5	3.84	35.1	143	62.4	184	138	34	17
779	Wooster, OH	I02-IS1-007	2	32.0	90.5	57	78.4	2.6	1	12.1	3.59	31.2	131	47.5	126	126	35	13
780	Wooster, OH	I02-NC1-008	2	37.3	93.4	66	80.4	4.1	2	10.1	3.37	35.5	72	36.6	263	107	18	24
781	Wooster, OH	I02-NC2-009	2	41.5	98.9	61	78.4	2.3	1	11.7	3.69	32.7	123	48.1	298	125	36	14
782	Wooster, OH	I02-NC3-010	2	36.4	94.3	66	80.5	4.1	2	9.7	3.29	36.3	67	34.1	299	99	18	19
783	Wooster, OH	I02-NW1-011	2	37.0	96.1	76	81.4	n.d.	3	9.6	3.43	39.1	62	30.4	355	110	20	20
784	Wooster, OH	I02-NW2-012	2	37.2	95.6	74	81.3	n.d.	3	9.7	3.45	39.6	62	31.8	423	106	20	20
785	Wooster, OH	I02-NW3-013	2	38.3	96.6	74	81.1	n.d.	3	9.4	3.50	41.3	63	31.0	323	109	27	22
786	Wooster, OH	I02-WE1-014	2	33.3	87.3	53	81.4	3.0	1	10.2	3.86	41.0	83	40.7	146	132	32	31
787	Wooster, OH	I02-WE2-015	2	33.4	86.4	51	81.4	3.2	1	10.4	3.87	40.3	69	42.4	159	136	29	28
788	Wooster, OH	I02-WE3-016	2	37.0	95.7	51	82.9	3.5	1	9.1	3.93	44.1	70	45.4	90	146	38	38
789	Wooster, OH	I02-WO1-017	2	33.3	80.4	53	80.5	3.5	1	11.3	3.94	37.6	88	46.9	187	138	23	21
790	Wooster, OH	I02-WO2-018	2	36.2	93.5	60	82.2	2.9	1	8.7	3.50	42.2	69	38.1	245	109	27	27
791		CONRAD MALT CHECK	2	41.1	98.0	89	84.8	3.3	1	11.4	4.69	42.8	110	104.0	80	244	62	50
792	Wooster, OH	I02-WO3-019	2	34.7	89.2	58	81.2	3.1	1	9.6	3.68	39.5	69	43.1	173	122	24	20
793		CONRAD MALT CHECK	2	40.9	98.2	89	84.6	3.3	1	11.8	4.61	40.7	120	102.6	56	228	65	38

2022 Crop Year Breeders' Submissions

Lab No.	Location	Variety or Selection	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agrton)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (*ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)	Adjunct Quality Score	All Malt Quality Score
794	Wooster, OH	I03-NC1-021	2	37.2	93.7	70	81.6	4.0	2	10.3	3.64	38.7	126	39.6	200	120	28	29
795	Wooster, OH	I03-NC2-022	2	39.9	97.1	54	82.1	3.2	1	10.0	3.68	38.2	99	43.9	159	125	28	35
796	Wooster, OH	I03-NC3-023	2	39.6	93.9	73	81.0	3.6	1	10.6	3.71	36.1	129	34.9	341	128	31	22
797	Wooster, OH	I03-NW1-024	2	36.2	90.6	83	81.7	3.4	1	11.1	3.86	36.8	149	37.2	455	122	34	25
798	Wooster, OH	I03-NW2-025	2	38.6	95.4	80	81.9	4.7	2	10.1	3.85	39.1	121	33.3	455	91	30	33
799	Wooster, OH	I03-NW3-026	2	38.2	96.1	78	82.0	4.0	2	10.1	3.87	42.1	129	36.8	387	122	35	33
800	Wooster, OH	I03-WE1-027	2	35.7	89.9	58	82.6	3.4	1	10.5	4.21	40.8	132	46.0	227	172	39	39
801	Wooster, OH	I03-WE2-028	2	35.4	85.6	55	81.5	3.6	1	12.0	4.47	39.3	163	50.4	186	180	42	34
802	Wooster, OH	I03-WE3-029	2	34.9	87.4	62	81.5	3.2	1	12.0	4.36	38.7	145	44.4	263	168	39	27
803	Wooster, OH	I03-WO1-030	2	35.9	88.3	67	81.8	2.9	1	11.1	3.99	37.1	155	43.8	238	132	36	29
804	Wooster, OH	I03-WO2-031	2	35.4	92.3	66	81.9	2.8	1	10.6	3.95	39.5	153	39.2	249	139	29	33
805	Wooster, OH	I03-WO3-032	2	36.1	89.3	65	81.9	2.9	1	11.2	4.04	36.9	157	43.4	215	145	39	29
806		CONRAD MALT CHECK	2	41.1	98.5	88	85.2	3.0	1	12.0	4.80	42.8	131	108.5	120	229	65	31
807	Wooster, OH	I05-NC1-034	2	36.0	92.7	63	80.4	2.5	1	11.9	4.07	35.1	159	62.0	95	147	48	28
808	Wooster, OH	I05-NC2-035	2	35.6	93.6	65	80.9	2.6	1	11.1	3.93	38.6	130	65.0	74	135	45	33
809	Wooster, OH	I05-NC3-036	2	37.0	94.1	65	80.7	2.5	1	11.1	3.78	37.0	155	60.1	54	132	45	30
810	Wooster, OH	I05-NW1-037	2	36.1	92.8	71	82.3	2.6	1	10.2	3.89	40.4	155	57.7	109	125	44	35
811	Wooster, OH	I05-NW2-038	2	36.7	93.8	69	82.4	2.6	1	10.8	4.10	38.5	139	58.3	126	148	42	38
812	Wooster, OH	I05-NW3-039	2	36.2	94.8	68	82.5	2.8	1	10.6	3.99	40.0	153	66.2	156	147	41	38
813	Wooster, OH	I05-WE1-040	2	34.8	91.5	54	81.1	3.8	1	10.8	4.41	44.0	138	65.2	100	187	54	42
814	Wooster, OH	I05-WE2-041	2	33.1	84.9	54	80.1	3.1	1	11.2	4.17	40.9	131	67.4	132	159	44	39
815	Wooster, OH	I05-WE3-042	2	37.1	93.2	57	81.5	3.2	1	10.1	4.24	43.5	136	65.8	68	130	51	44
816	Wooster, OH	I05-WO1-043	2	30.9	73.0	54	78.8	3.0	1	12.9	4.55	35.9	160	73.8	190	143	33	16
817	Wooster, OH	I05-WO2-044	2	33.9	87.6	58	80.0	2.7	1	11.4	4.35	41.0	161	70.4	144	135	47	38
818	Wooster, OH	I05-WO3-045	2	33.0	83.5	55	79.8	2.7	1	11.9	4.43	40.0	154	69.5	177	139	41	25
819	Wooster, OH	I08-IS1-046	2	33.0	87.1	57	80.7	2.6	1	10.6	4.11	42.5	98	50.8	368	123	32	30
820	Wooster, OH	I08-NC1-047	2	40.8	97.9	62	84.4	4.1	2	10.5	5.00	48.6	102	62.1	171	204	46	32
821	Wooster, OH	I08-NC2-048	2	40.3	98.0	64	84.4	3.1	1	10.0	4.76	49.3	117	61.3	113	187	46	40
822		CONRAD MALT CHECK	2	40.9	98.5	89	84.6	2.9	1	11.8	5.02	45.5	137	108.3	73	213	69	30
823	Wooster, OH	I08-NC3-049	2	41.5	97.9	63	84.3	4.0	2	10.6	5.03	49.3	112	67.4	189	205	46	37
824	Wooster, OH	I08-NW1-050	2	38.2	96.2	72	84.8	3.8	2	10.1	4.67	51.1	106	56.1	170	178	37	45
825	Wooster, OH	I08-NW2-051	2	38.9	96.1	71	85.5	n.d.	3	9.8	4.75	53.7	107	58.5	250	186	39	37
826	Wooster, OH	I08-NW3-052	2	37.8	97.2	68	84.9	4.2	2	9.9	5.02	52.0	108	61.8	228	203	42	33
827	Wooster, OH	I08-WE1-053	2	35.2	94.2	47	84.1	4.0	1	10.5	5.23	53.7	119	73.6	94	219	52	37
828	Wooster, OH	I08-WE2-054	2	33.5	89.8	50	83.0	4.4	1	11.8	5.68	49.4	119	79.7	123	246	47	23
829	Wooster, OH	I08-WE3-055	2	35.4	91.9	51	83.2	4.5	1	12.1	5.59	48.9	106	75.4	121	242	53	29
830	Wooster, OH	I08-WO1-056	2	35.3	89.5	56	83.2	3.8	1	11.8	5.44	47.7	123	72.8	247	220	51	20
831	Wooster, OH	I08-WO2-057	2	35.0	89.8	55	83.7	3.4	1	11.0	4.97	48.7	124	75.0	168	195	44	28
832	Wooster, OH	I08-WO3-058	2	35.1	90.6	53	84.0	3.6	1	11.5	5.04	47.9	121	77.2	137	205	54	27
833	Wooster, OH	I11-IS1-059	2	36.4	87.0	65	82.0	3.0	1	12.0	5.78	49.4	156	91.4	242	212	47	17
834	Wooster, OH	I11-NC1-060	2	40.3	85.1	73	80.6	3.3	1	12.7	5.73	48.2	129	82.7	269	194	46	19
835	Wooster, OH	I11-NC2-061	2	42.0	97.4	74	81.1	3.1	1	11.9	5.68	49.4	125	79.9	252	214	53	18
836	Wooster, OH	I11-NC3-062	2	43.5	96.9	72	81.5	3.2	1	12.1	5.66	50.0	120	85.0	208	224	54	19
837	Wooster, OH	I11-NW1-063	2	41.7	95.8	69	80.1	3.8	1	12.8	5.62	46.0	113	79.8	198	221	52	25
838	Wooster, OH	I11-NW2-064	2	41.1	97.4	73	80.9	3.6	1	12.4	5.58	45.2	109	81.4	204	205	54	25
839	Wooster, OH	I11-NW3-065	2	43.0	95.2	75	80.7	3.7	1	11.6	5.56	48.9	99	78.2	184	212	48	22
840	Wooster, OH	I11-WE1-066	2	38.2	91.7	55	80.2	4.5	1	13.3	5.56	44.6	141	92.1	173	260	52	19
841	Wooster, OH	I11-WE2-067	2	40.7	94.7	54	80.6	4.4	1	12.7	5.53	44.6	117	86.7	183	225	56	24
842	Wooster, OH	I11-WE3-068	2	40.2	93.7	57	80.7	4.6	1	12.6	5.50	45.7	113	87.0	167	224	56	25
843	Wooster, OH	I11-WO1-069	2	38.8	90.0	66	80.7	3.4	1	12.9	4.15	34.8	131	86.4	412	205	46	26
844	Wooster, OH	I11-WO2-070	2	39.3	92.8	66	80.9	3.1	1	12.1	4.07	35.3	123	79.7	474	202	46	22
845	Wooster, OH	I11-WO3-071	2	39.3	91.6	65	81.1	3.4	1	12.5	4.13	35.5	149	89.8	397	221	51	26
846	Wooster, OH	I17-IS1-072	2	35.3	90.3	55	79.8	3.2	1	11.4	3.77	35.1	158	62.3	361	165	38	25
847	Wooster, OH	I17-NC1-073	2	41.5	96.8	63	78.5	3.2	1	12.5	3.69	31.0	153	56.2	337	161	39	21
848	Wooster, OH	I17-NC2-074	2	41.2	96.5	62	79.3	3.1	1	12.1	3.77	32.9	154	58.0	288	171	39	21
849	Wooster, OH	I17-NC3-075	2	42.0	95.4	61	78.9	3.0	1	12.9	3.85	30.9	153	55.5	276	167	39	21
850	Wooster, OH	I17-NW1-076	2	40.7	94.9	65	79.5	3.5	1	10.8	3.69	35.6	125	48.5	340	171	34	29
851	Wooster, OH	I17-NW2-077	2	40.8	96.1	65	79.9	3.2	1	12.6	3.83	32.7	133	58.0	444	165	42	24
852	Wooster, OH	I17-NW3-078	2	39.7	93.1	70	79.4	3.0	1	10.7	3.43	34.7	121	51.8	262	151	32	24
853		CONRAD MALT CHECK	2	39.4	98.5	89	84.7	3.5	1	12.2	4.23	36.4	109	101.7	141	258	51	41
854	Wooster, OH	I17-WE1-079	2	38.5	91.1	50	79.0	3.6	1	12.1	3.81	33.3	139	58.3	329	174	37	19
855	Wooster, OH	CK1-NC1-VIO	2	44.5	95.8	73	78.1	2.8	1	12.2	4.03	34.3	105	38.7	365	129	33	25
856	Wooster, OH	I30-WE3-159	2	36.2	95.7	50	81.9	3.9	1	11.3	4.47	41.3	127	56.1	101	174	52	44
857	Wooster, OH	I30-WO1-160	2	38.0	95.3	54	81.0	2.9	1	12.2	4.04	34.8	158	55.2	165	148	41	21
858	Wooster, OH	I30-WO2-161	2	37.9	97.5	54	81.4	3.0	1	11.8	4.12	36.8	143	50.7	207	145	44	25
859	Wooster, OH	I30-WO3-162	2	36.1	95.0	55	81.1	3.2	1	12.4	4.23	34.9	141	53.8	298	148	44	25

2022 Crop Year Breeders' Submissions

Lab No.	Location	Variety or Selection	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agron)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (*ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)	Adjunct Quality Score	All Malt Quality Score
860	Wooster, OH	I3- IS1-163	2	35.5	96.8	53	79.9	2.6	1	11.5	4.00	36.0	138	56.5	406	131	41	24
861	Wooster, OH	I3-NC1-164	2	41.3	99.0	65	78.8	2.3	1	11.8	3.93	34.9	124	54.3	218	123	39	17
862	Wooster, OH	I3-NC2-165	2	35.6	92.7	63	81.3	n.d.	3	10.1	3.72	40.0	78	40.2	292	111	29	25
863	Wooster, OH	I3-NC3-166	2	41.2	99.0	60	78.6	2.5	1	12.7	4.11	34.7	144	53.3	251	134	42	24
864	Wooster, OH	I3- NW1-167	2	40.2	99.1	65	79.6	2.6	1	10.9	3.90	37.4	115	51.3	453	123	34	29
865	Wooster, OH	I3- NW2-168	2	40.6	98.9	66	80.6	2.5	2	10.5	3.89	38.9	117	50.5	406	122	33	31
866	Wooster, OH	I3- NW3-169	2	41.1	99.0	67	79.9	2.5	1	11.7	3.96	34.3	128	52.4	378	130	42	23
867	Wooster, OH	I3- WE1-170	2	39.4	97.3	55	78.8	2.7	1	12.6	4.21	35.1	123	57.1	390	138	40	22
868	Wooster, OH	I3- WE2-171	2	37.3	97.2	51	78.3	2.9	1	12.3	4.20	36.2	110	55.1	405	152	35	31
869	Wooster, OH	I3- WE3-172	2	37.5	98.3	51	78.3	3.0	2	12.1	3.93	35.0	147	52.7	296	132	34	15
870	Wooster, OH	I3- WO1-173	2	38.3	98.0	52	78.4	3.1	2	12.4	4.18	35.9	126	55.1	330	141	39	21
871	Wooster, OH	I3- WO2-174	2	39.2	98.3	59	78.5	2.7	1	12.6	3.94	33.6	131	54.2	378	124	37	15
872	Wooster, OH	I3- WO3-175	2	39.7	98.9	58	79.0	2.7	2	11.9	3.88	34.8	126	52.2	400	117	36	11
873	Wooster, OH	I3- IS1-176	2	33.4	88.5	51	76.9	3.6	1	12.2	3.52	30.5	124	52.1	278	118	29	8
874	Wooster, OH	I3- NC1-177	2	44.7	99.2	62	77.8	n.d.	3	11.8	3.79	34.3	127	53.7	351	126	34	13
875	Wooster, OH	I3- NC2-178	2	39.4	95.8	58	77.7	4.1	2	11.6	3.58	33.4	126	51.3	291	102	32	11
876	Wooster, OH	I3- NC3-179	2	41.1	96.0	58	77.2	4.2	2	12.3	3.56	29.7	123	50.5	357	111	34	13
877	Wooster, OH	I3- NW1-180	2	41.1	97.9	61	77.8	n.d.	3	11.0	3.77	36.9	109	48.8	411	130	27	27
878	Wooster, OH	I3- NW2-181	2	40.7	96.8	64	78.8	n.d.	3	11.4	3.64	34.4	121	50.9	400	116	37	17
879	Wooster, OH	I3- NW3-182	2	38.7	93.6	63	77.7	4.9	2	12.4	3.67	31.6	105	45.8	488	107	26	18
880	Wooster, OH	I3- WE1-183	2	38.6	95.3	52	76.6	5.0	2	12.4	3.90	33.7	107	51.6	338	140	29	24
881		CONRAD MALT CHECK	2	40.7	98.2	90	84.1	3.4	1	11.7	4.62	41.8	122	116.4	159	247	58	31
882	Wooster, OH	I3- WE2-184	2	37.7	94.3	51	78.3	n.d.	3	11.4	3.78	34.0	103	56.2	367	119	30	20
883	Wooster, OH	I3- WE3-185	2	40.1	96.8	54	77.4	n.d.	3	11.8	3.83	33.8	105	53.6	376	131	30	22
884	Wooster, OH	I3- WO1-186	2	37.7	95.3	54	78.3	4.1	2	11.6	3.58	33.3	118	52.2	380	105	31	12
885	Wooster, OH	I3- WO2-187	2	39.2	96.6	55	78.5	4.2	2	11.2	3.58	34.2	121	50.3	312	115	36	16
886	Wooster, OH	I3- WO3-188	2	38.3	95.0	55	79.7	4.2	1	11.6	4.23	39.6	141	72.6	169	174	43	36
887	Wooster, OH	I3- IS1-189	2	35.1	91.2	52	79.6	3.1	1	13.0	4.17	32.2	149	57.1	217	141	36	23
888	Wooster, OH	I3- NC1-190	2	42.7	98.1	66	80.0	3.8	2	11.7	3.97	34.2	128	41.5	202	132	39	23
889	Wooster, OH	I3- NC2-191	2	39.5	97.6	62	79.8	3.5	2	12.2	3.97	34.1	137	40.7	206	132	36	20
890	Wooster, OH	I3- NC3-192	2	41.1	98.2	67	80.1	3.9	2	11.8	3.85	32.7	139	44.1	221	131	38	21
891	Wooster, OH	I3- NW1-193	2	39.1	97.5	70	81.1	4.5	2	10.8	3.89	39.1	121	46.7	256	139	34	26
892	Wooster, OH	I3- NW2-194	2	36.2	88.4	71	81.2	3.7	2	11.2	4.02	36.8	125	48.6	183	145	38	23
893	Wooster, OH	I3- NW3-195	2	38.4	95.3	68	81.6	4.1	2	10.3	3.98	39.9	130	49.6	172	140	34	39
894	Wooster, OH	I3- WE1-196	2	36.5	94.3	52	80.9	2.9	1	12.7	4.11	32.9	135	53.4	263	157	41	29
895	Wooster, OH	I3- WE2-197	2	34.5	91.3	52	81.5	2.8	1	12.4	3.60	31.2	117	55.2	229	140	38	26
896	Wooster, OH	I3- WE3-198	2	36.9	95.9	53	81.7	3.0	1	11.4	3.61	32.4	127	54.3	218	150	41	32
897	Wooster, OH	I3- WO1-199	2	38.5	96.9	58	81.1	2.6	1	12.5	3.52	30.2	155	51.6	224	143	43	20
898	Wooster, OH	I3- WO2-200	2	37.6	95.1	51	81.1	2.7	1	13.0	3.57	29.8	149	54.3	224	141	41	18
899	Wooster, OH	I3- WO3-201	2	38.1	96.9	60	80.8	2.6	1	12.3	3.49	30.3	153	53.8	151	140	40	20
900	Wooster, OH	I3- IS1-202	2	33.8	82.8	53	78.0	3.6	2	11.6	3.53	31.4	147	49.7	294	129	26	4
901	Wooster, OH	I3- NC1-203	2	40.0	97.4	64	77.9	n.d.	3	11.8	3.29	30.4	111	39.1	566	111	23	19
902	Wooster, OH	I3- NC2-204	2	39.9	98.1	65	77.6	n.d.	3	12.3	3.19	27.2	107	37.4	609	95	21	17
903	Wooster, OH	I3- NC3-205	2	39.6	98.5	62	77.9	n.d.	3	12.0	3.19	27.7	112	40.8	579	101	25	17
904	Wooster, OH	I3- NW1-206	2	38.3	97.9	67	79.0	n.d.	3	11.7	3.13	27.5	100	38.6	581	103	21	13
905	Wooster, OH	I3- NW2-207	2	37.8	97.4	66	78.9	n.d.	3	11.1	3.19	30.1	92	35.0	606	94	19	13
906	Wooster, OH	I3- NW3-208	2	37.5	95.7	67	78.9	n.d.	3	11.0	3.17	30.8	94	36.3	607	104	14	13
907	Wooster, OH	I3- WE1-209	2	36.7	98.4	51	78.9	n.d.	3	10.9	3.31	32.9	98	43.1	472	112	18	16
908	Wooster, OH	I3- WE2-210	2	35.6	96.3	52	78.3	4.4	2	11.7	3.39	31.4	110	43.1	565	107	28	16
909	Wooster, OH	I3- WE3-211	2	36.5	96.4	52	78.7	4.4	2	12.2	3.39	29.1	101	43.4	585	111	28	16
910	Wooster, OH	I3- WO1-212	2	34.4	93.1	55	78.0	4.4	2	12.8	3.33	26.1	107	46.7	587	112	24	16
911	Wooster, OH	I3- WO2-213	2	37.5	97.6	56	78.0	n.d.	3	12.1	3.11	26.8	101	40.1	586	85	23	15
912		CONRAD MALT CHECK	2	40.3	98.3	88	85.4	3.7	1	12.0	4.04	36.2	116	106.9	151	202	48	32
913	Wooster, OH	I3- WO3-214	2	38.2	98.2	55	78.3	n.d.	3	11.9	3.20	27.3	106	43.2	565	103	29	17
914	Wooster, OH	WO-2022-001	2	31.8	81.4	53	81.7	3.1	1	10.8	3.48	35.3	133	93.9	251	165	31	29
915	Wooster, OH	WO-2022-002	2	35.0	92.0	58	80.1	2.8	1	11.8	3.33	30.1	99	47.3	345	131	28	21
916	Wooster, OH	WO-2022-003	2	38.9	97.1	51	81.8	3.5	1	10.8	3.21	30.7	110	45.2	176	111	32	34
917	Wooster, OH	WO-2022-004	2	39.3	96.0	54	82.0	3.1	1	10.0	3.30	36.4	115	46.9	137	125	35	38
918	Wooster, OH	WO-2022-005	2	36.7	93.8	50	80.4	3.0	1	12.3	3.59	30.0	154	53.8	290	147	38	18
919	Wooster, OH	WO-2022-006	2	38.4	92.1	59	80.0	2.9	1	13.2	4.48	35.5	143	81.8	528	177	38	33
920	Wooster, OH	WO-2022-007	2	37.6	91.9	65	81.3	3.2	1	12.0	4.76	41.8	126	93.3	203	209	52	19
921	Wooster, OH	WO-2022-009	2	36.0	93.9	54	80.6	2.9	2	11.9	4.06	34.5	127	64.5	186	146	40	20
922	Wooster, OH	WO-2022-010	2	35.9	85.2	61	78.6	2.9	2	12.0	3.91	34.2	116	51.2	494	121	29	13
923	Wooster, OH	WO-2022-011	2	34.0	79.9	52	78.7	3.1	1	13.2	4.84	39.5	157	85.4	313	200	35	12
924	Wooster, OH	WO-2022-012	2	34.1	84.4	57	79.3	n.d.	3	11.4	3.88	34.5	129	59.3	527	129	28	8
925	Wooster, OH	WO-2022-013	2	35.0	85.3	56	78.6	3.1	1	12.9	4.87	39.0	140	89.9	364	203	43	10

2022 Crop Year Breeders' Submissions

Lab No.	Location	Variety or Selection	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agron)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (*ASBC)	Alpha-amylase (20*DU)	Beta-glucan (ppm)	FAN (ppm)	Adjunct Quality Score	All Malt Quality Score
926	Wooster, OH	WO-2022-015	2	32.4	78.4	49	77.8	3.3	1	13.2	4.86	38.1	171	88.1	254	196	31	10
927	Wooster, OH	WO-2022-016	2	40.5	98.0	57	79.7	2.8	2	12.3	3.92	34.2	117	52.8	418	116	38	22
928	Wooster, OH	WO-2022-018	2	36.4	93.7	64	77.8	n.d.	3	12.4	3.98	33.4	130	47.9	379	114	26	11
929	Wooster, OH	WO-2022-019	2	34.6	88.7	58	79.7	n.d.	3	11.5	3.85	35.1	105	49.8	401	101	28	16
930	Wooster, OH	WO-2022-021	2	37.1	96.5	60	79.5	n.d.	3	11.3	3.62	33.8	115	48.3	431	97	30	16
931	Wooster, OH	WO-2022-023	2	32.3	83.4	62	80.8	2.7	1	11.4	3.93	37.8	112	66.7	122	121	33	33
932	Wooster, OH	WO-2022-026	2	40.8	96.7	54	78.4	2.4	2	13.1	4.11	32.5	156	60.2	259	130	36	23
933	Wooster, OH	WO-2022-028	2	41.6	97.8	53	79.4	2.7	2	12.4	4.02	34.5	150	53.4	368	120	44	16
934	Wooster, OH	WO-2022-029	2	38.9	94.9	53	80.1	3.1	1	12.5	3.84	32.5	146	50.3	322	118	40	17
935	Wooster, OH	WO-2022-033	2	36.3	96.5	57	81.7	3.0	2	11.6	3.97	37.1	128	60.8	194	128	40	22
936	Wooster, OH	WO-2022-034	2	36.0	96.3	57	78.4	n.d.	3	12.7	3.85	31.4	106	39.7	594	107	23	15
937	Wooster, OH	CK3-NC1-VIO	2	36.6	91.9	62	80.3	2.5	1	10.4	3.66	37.6	106	43.0	211	102	27	32
938	Wooster, OH	WO-2022-035	2	38.2	97.9	59	80.8	2.6	1	12.3	4.04	34.9	123	41.5	409	121	40	20
939	Wooster, OH	WO-2022-036	2	36.8	90.6	62	81.1	3.1	2	11.0	3.88	37.0	141	40.0	319	120	32	19
940	Wooster, OH	WO-2022-037	2	39.6	92.8	47	79.2	n.d.	3	11.6	3.70	33.1	113	40.6	524	113	29	17
941	Wooster, OH	WO-2022-038	2	36.3	89.1	58	78.9	n.d.	3	12.6	3.79	31.7	131	39.7	592	111	24	6
942	Wooster, OH	WO-2022-039	2	39.5	95.6	53	78.6	3.0	2	12.4	3.99	34.6	157	51.0	286	125	36	14
943	Wooster, OH	WO-2022-040	2	38.5	97.1	51	80.5	2.8	1	10.8	3.70	35.9	125	46.9	213	106	32	22
944	Wooster, OH	WO-2022-041	2	38.3	97.6	54	79.3	2.8	1	12.1	3.78	32.7	120	44.6	351	116	34	12
945		CONRAD MALT CHECK	2	41.1	98.3	90	85.0	3.1	1	12.1	4.70	41.9	136	114.4	135	223	61	34
946	Wooster, OH	WO-2022-042	2	40.0	97.0	56	78.8	2.7	1	12.7	3.91	31.1	125	49.7	471	122	30	15
947	Wooster, OH	WO-2022-043	2	41.4	97.1	56	78.7	2.8	1	11.8	3.95	34.8	125	50.4	311	126	39	17
948	Wooster, OH	WO-2022-044	2	37.2	91.0	59	77.7	n.d.	3	12.3	3.96	34.9	142	54.0	373	117	29	11
949	Wooster, OH	WO-2022-045	2	36.6	95.4	59	82.1	3.0	1	11.0	3.86	36.9	128	58.1	177	122	36	25
950	Wooster, OH	WO-2022-046	2	37.4	90.7	55	77.3	2.8	1	13.2	4.13	32.8	154	57.0	459	141	29	20
951	Wooster, OH	WO-2022-047	2	35.7	90.2	55	79.1	3.0	1	12.1	4.21	36.9	150	59.4	326	149	38	20
952	Wooster, OH	WO-2022-048	2	38.4	94.8	54	77.8	3.3	2	12.5	3.94	34.2	131	46.4	297	127	29	14
953	Wooster, OH	WO-2022-049	2	35.6	89.3	54	77.6	n.d.	3	12.6	3.91	33.3	128	50.8	513	124	27	9
954	Wooster, OH	WO-2022-050	2	38.4	90.7	61	79.5	2.8	1	12.3	4.42	38.9	156	78.6	439	178	43	28
955	Wooster, OH	WO-2022-051	2	37.4	94.3	53	77.9	n.d.	3	12.2	3.79	32.8	133	46.3	397	113	26	8
956	Wooster, OH	WO-2022-052	2	37.0	94.8	55	78.6	2.6	1	12.1	4.16	34.4	150	50.8	441	142	38	20
957	Wooster, OH	WO-2022-053	2	37.0	90.6	64	79.0	n.d.	3	12.4	4.26	35.3	157	55.1	308	141	36	18
958	Wooster, OH	WO-2022-054	2	35.4	93.9	47	81.6	3.0	1	11.8	4.30	39.5	129	51.7	277	163	44	36
959	Wooster, OH	WO-2022-055	2	38.4	92.6	67	81.4	2.9	1	11.5	4.08	36.6	115	51.7	365	135	43	35
960	Wooster, OH	WO-2022-056	2	38.3	83.6	53	80.3	3.0	1	12.4	4.11	34.7	111	48.1	522	145	32	29
961	Wooster, OH	WO-2022-057	2	34.9	94.0	61	80.0	3.1	2	12.0	3.93	35.4	112	48.2	409	133	31	27
962	Wooster, OH	WO-2022-058	2	41.1	94.8	58	79.3	2.7	1	11.9	4.03	36.0	135	48.3	466	139	39	20
963	Wooster, OH	WO-2022-059	2	38.1	95.3	49	79.9	n.d.	3	12.5	4.56	37.4	94	46.3	421	178	31	23
964	Wooster, OH	WO-2022-060	2	41.1	97.2	54	78.2	n.d.	3	13.0	4.25	35.1	120	64.3	362	138	32	25
965	Wooster, OH	WO-2022-061	2	38.4	95.5	58	80.2	3.3	1	12.5	4.96	41.5	153	98.8	332	224	57	21
966	Wooster, OH	WO-2022-062	2	36.5	90.9	48	80.1	2.9	2	11.7	3.98	35.3	116	47.9	483	136	31	23
967	Wooster, OH	WO-2022-063	2	37.2	92.1	51	79.4	n.d.	3	12.0	3.79	33.3	114	35.3	450	136	23	18
968	Wooster, OH	WO-2022-067	2	37.2	90.7	56	81.2	3.5	1	12.6	4.79	41.1	150	75.7	374	226	54	19
969	Wooster, OH	WO-2022-069	2	36.6	89.7	55	80.2	3.1	1	12.3	4.07	34.9	94	52.6	466	169	32	23
970	Wooster, OH	WO-2022-070	2	38.8	96.2	62	79.7	3.4	1	13.0	4.25	34.4	99	47.6	381	170	33	32
971	Wooster, OH	WO-2022-071	2	34.4	89.5	58	80.6	3.0	1	10.5	3.76	37.3	100	47.7	270	136	21	29
972	Wooster, OH	WO-2022-072	2	33.4	86.9	56	80.0	3.2	1	11.2	4.02	36.9	101	49.5	241	151	33	35
973	Wooster, OH	WO-2022-073	2	35.7	92.2	56	80.4	3.0	1	11.7	4.06	35.6	95	47.9	273	160	31	28
974	Wooster, OH	WO-2022-075	2	36.7	87.3	53	77.7	n.d.	3	13.1	4.16	33.8	130	52.3	242	158	25	20
975	Wooster, OH	WE-2022-001	2	33.2	83.5	52	81.5	3.8	1	11.5	4.59	43.4	117	84.1	216	198	44	31
976		CONRAD MALT CHECK	2	41.3	98.4	89	84.8	3.4	1	12.1	4.95	42.9	110	105.6	100	241	66	42
977	Wooster, OH	WE-2022-002	2	35.9	93.7	54	80.9	3.1	1	11.6	4.26	39.9	105	52.8	331	164	38	38
978	Wooster, OH	WE-2022-003	2	37.2	96.6	46	81.2	n.d.	3	11.0	3.91	38.7	101	47.9	221	130	28	28
979	Wooster, OH	WE-2022-004	2	39.8	95.5	51	81.0	3.2	1	10.4	4.14	41.1	100	51.3	172	152	40	50
980	Wooster, OH	WE-2022-005	2	38.0	94.3	48	80.6	3.4	1	11.9	4.47	39.7	146	58.6	297	181	46	29
981	Wooster, OH	WE-2022-006	2	38.9	92.3	52	79.2	3.9	1	13.4	5.07	40.1	145	86.2	451	224	49	16
982	Wooster, OH	WE-2022-007	2	37.9	93.8	60	80.7	3.8	1	12.9	5.02	40.7	126	84.0	238	224	55	19
983	Wooster, OH	WE-2022-009	2	35.5	93.2	54	79.9	3.2	1	12.3	4.28	37.0	128	61.6	262	165	41	27
984	Wooster, OH	WE-2022-010	2	35.8	90.0	59	78.6	3.0	1	11.4	4.03	38.4	103	54.2	447	134	35	28
985	Wooster, OH	WE-2022-011	2	37.2	89.8	56	79.7	3.8	1	13.0	5.14	40.8	136	73.5	385	226	53	18
986	Wooster, OH	WE-2022-012	2	33.3	85.6	57	79.4	n.d.	3	11.5	4.29	40.8	104	53.7	484	150	39	25
987	Wooster, OH	WE-2022-013	2	32.7	82.1	52	79.0	4.1	1	13.0	5.28	43.1	130	88.9	415	242	47	7
988	Wooster, OH	WE-2022-015	2	35.1	86.6	53	79.4	3.4	1	12.9	5.06	40.5	144	78.1	402	202	48	12
989	Wooster, OH	WE-2022-016	2	39.0	97.7	54	79.5	3.3	1	12.1	4.13	35.8	112	61.4	362	137	40	32
990	Wooster, OH	WE-2022-018	2	35.5	94.6	55	76.9	3.5	1	13.2	4.48	34.2	130	56.0	320	150	29	24
991	Wooster, OH	WE-2022-019	2	32.9	80.2	55	78.8	3.4	1	12.1	4.01	34.2	100	53.9	443	118	30	15

2022 Crop Year Breeders' Submissions

Lab No.	Location	Variety or Selection	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agrton)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (*ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)	Adjunct Quality Score	All Malt Quality Score
992	Wooster, OH	WE-2022-021	2	35.6	93.9	56	78.6	4.0	2	12.2	3.95	34.5	122	55.8	432	124	34	12
993	Wooster, OH	WE-2022-023	2	31.8	85.0	57	79.9	3.5	1	12.1	4.38	38.0	111	71.9	152	155	36	37
994	Wooster, OH	WE-2022-026	2	39.0	95.8	51	77.9	3.2	1	12.9	4.35	35.7	148	64.1	263	150	36	26
995	Wooster, OH	WE-2022-028	2	40.3	96.6	53	78.2	3.1	1	12.2	4.05	35.3	123	53.9	433	130	42	20
996	Wooster, OH	WE-2022-029	2	38.0	94.0	53	78.2	3.1	1	11.9	4.14	35.9	139	58.2	343	139	38	20
997	Wooster, OH	WE-2022-033	2	36.5	94.5	51	80.6	3.5	1	12.3	4.21	36.6	129	70.3	249	146	41	30
998	Wooster, OH	WE-2022-034	2	35.3	95.0	53	78.7	n.d.	3	11.9	3.92	34.1	108	47.3	553	113	27	18
999	Wooster, OH	WE-2022-035	2	38.5	96.8	54	80.3	3.1	1	12.3	4.56	37.9	133	49.6	417	148	40	23
1000	Wooster, OH	WE-2022-036	2	35.7	83.6	60	79.6	3.5	1	12.2	4.44	38.1	141	49.4	350	154	33	22
1001	Wooster, OH	WE-2022-037	2	39.0	87.8	43	77.7	n.d.	3	11.9	4.21	36.2	120	43.7	485	135	29	18
1002	Wooster, OH	WE-2022-038	2	36.8	90.9	52	78.4	4.1	2	13.3	3.72	30.0	114	43.7	547	128	23	16
1003	Wooster, OH	WE-2022-039	2	40.0	96.6	49	78.1	3.5	1	11.2	3.72	34.4	128	55.9	214	135	37	20
1004	Wooster, OH	WE-2022-040	2	35.8	96.1	48	81.0	3.3	1	11.0	3.70	35.5	124	53.0	90	136	40	30
1005	Wooster, OH	WE-2022-041	2	39.2	98.1	52	77.8	2.9	1	11.8	3.66	32.5	104	43.7	405	123	27	19
1006	Wooster, OH	WE-2022-042	2	38.3	94.8	54	76.6	3.0	1	12.7	4.16	34.4	137	59.3	233	170	36	26
1007		CONRAD MALT CHECK	2	39.7	97.5	87	84.1	4.1	1	11.6	4.61	41.2	115	110.6	45	254	60	43
1008	Wooster, OH	WE-2022-043	2	39.3	97.0	52	78.5	3.3	1	11.6	3.83	35.7	97	56.0	202	132	30	18
1009	Wooster, OH	WE-2022-044	2	37.1	91.7	55	77.4	3.6	1	11.8	3.75	33.3	118	57.0	380	114	28	13
1010	Wooster, OH	WE-2022-045	2	33.9	95.2	50	82.3	3.5	1	11.3	3.92	37.8	96	63.1	145	144	37	37
1011	Wooster, OH	WE-2022-046	2	37.1	92.2	58	77.5	2.8	1	13.7	4.07	31.9	136	57.6	446	139	24	16
1012	Wooster, OH	WE-2022-047	2	37.2	92.5	54	80.9	3.0	1	11.6	3.83	36.1	125	61.5	372	135	38	18
1013	Wooster, OH	WE-2022-048	2	38.0	93.4	49	77.4	3.1	1	12.9	3.93	32.3	129	54.3	276	128	33	15
1014	Wooster, OH	WE-2022-049	2	35.6	90.3	50	77.1	4.1	2	12.8	3.82	31.6	118	54.4	460	111	27	12
1015	Wooster, OH	WE-2022-050	2	38.4	90.8	58	79.4	3.3	1	12.2	4.54	39.9	141	82.7	374	169	43	26
1016	Wooster, OH	WE-2022-051	2	35.9	89.6	51	77.7	4.1	2	12.0	3.90	32.9	118	48.9	322	120	22	13
1017	Wooster, OH	WE-2022-052	2	37.3	94.3	55	78.7	3.0	1	11.8	4.17	36.7	120	54.2	373	125	38	17
1018	Wooster, OH	WE-2022-053	2	34.6	78.4	60	76.7	4.1	2	13.1	3.96	31.9	144	54.4	289	114	20	7
1019	Wooster, OH	WE-2022-054	2	34.9	93.6	46	81.4	3.2	1	11.7	4.02	36.4	111	47.6	268	128	38	25
1020	Wooster, OH	CK1-NC2-VIO	2	38.2	95.0	62	80.4	2.7	1	10.8	3.72	36.0	106	42.4	172	107	29	29
1021	Wooster, OH	WE-2022-055	2	36.9	88.4	60	80.2	3.1	1	12.3	4.23	35.5	118	52.5	182	147	36	26
1022	Wooster, OH	WE-2022-056	2	38.3	87.9	54	80.0	3.1	1	12.2	3.92	34.2	104	47.4	481	123	32	23
1023	Wooster, OH	WE-2022-057	2	34.8	90.7	58	79.3	3.0	1	12.4	3.94	34.5	109	51.4	348	115	32	20
1024	Wooster, OH	WE-2022-058	2	41.2	94.7	56	79.1	3.2	1	11.7	4.07	35.6	122	54.2	370	130	42	17
1025	Wooster, OH	WE-2022-059	2	39.7	96.2	53	77.7	5.6	2	12.8	4.52	35.8	105	57.6	310	161	32	28
1026	Wooster, OH	WE-2022-060	2	41.5	95.5	49	79.2	n.d.	3	13.0	4.47	35.6	85	46.1	450	158	25	26
1027	Wooster, OH	WE-2022-061	2	38.6	95.1	56	79.4	4.2	1	12.8	5.34	44.7	138	98.1	278	246	54	14
1028	Wooster, OH	WE-2022-062	2	36.3	92.6	47	79.8	n.d.	3	10.3	3.99	39.4	99	47.7	483	132	21	32
1029	Wooster, OH	WE-2022-063	2	35.3	90.1	48	79.0	n.d.	3	12.1	4.18	36.2	104	40.5	516	138	30	25
1030	Wooster, OH	WE-2022-067	2	37.1	93.8	60	82.4	3.4	1	11.5	4.67	44.4	121	73.8	431	194	52	36
1031	Wooster, OH	WE-2022-069	2	38.1	95.5	58	81.4	3.5	2	11.1	4.03	38.8	89	50.8	519	153	38	31
1032	Wooster, OH	WE-2022-070	2	37.5	95.4	61	80.1	3.0	1	11.1	4.19	38.5	91	45.3	369	151	31	34
1033	Wooster, OH	WE-2022-071	2	33.7	91.3	56	80.1	3.1	2	11.3	3.93	36.8	97	45.8	339	130	27	25
1034	Wooster, OH	WE-2022-072	2	33.7	86.9	56	80.5	2.9	1	11.4	4.05	38.0	101	46.1	282	138	33	31
1035	Wooster, OH	WE-2022-073	2	34.5	94.3	56	80.8	3.1	1	11.4	4.51	42.9	90	43.9	206	154	36	32
1036	Wooster, OH	WE-2022-075	2	36.6	93.8	53	78.4	n.d.	3	12.3	4.50	39.5	115	49.9	390	146	30	23
1037	Wooster, OH	NC-2022-001	2	31.4	85.4	63	81.6	2.7	1	11.3	4.45	42.8	139	91.8	276	170	47	41
1038		CONRAD MALT CHECK	2	41.4	97.9	87	84.1	3.3	1	11.8	5.54	50.8	124	113.8	52	257	64	30
1039	Wooster, OH	NC-2022-002	2	38.0	95.8	65	79.2	2.8	2	11.7	4.32	39.1	106	42.8	249	137	31	28
1040	Wooster, OH	NC-2022-003	2	41.3	97.8	62	81.6	n.d.	3	10.7	4.12	40.3	108	42.0	226	119	40	43
1041	Wooster, OH	NC-2022-004	2	38.5	94.2	63	79.7	2.4	1	10.6	3.91	39.1	108	44.9	136	117	32	35
1042	Wooster, OH	NC-2022-005	2	38.7	94.9	58	79.2	2.8	2	12.4	4.61	39.6	158	50.9	272	145	39	19
1043	Wooster, OH	NC-2022-006	2	41.6	95.4	66	79.5	3.1	1	12.3	5.15	43.3	127	83.1	487	203	57	19
1044	Wooster, OH	NC-2022-007	2	40.4	96.4	73	80.7	3.1	1	12.5	5.40	45.9	110	80.3	217	221	56	25
1045	Wooster, OH	NC-2022-009	2	38.0	95.9	64	80.6	n.d.	3	11.3	4.21	40.0	127	52.0	127	151	42	37
1046	Wooster, OH	NC-2022-010	2	38.7	90.6	70	77.7	n.d.	3	11.6	4.13	38.1	110	47.9	457	125	28	24
1047	Wooster, OH	NC-2022-011	2	37.7	90.8	68	79.8	2.7	1	12.4	4.94	41.4	144	74.6	348	178	50	27
1048	Wooster, OH	NC-2022-012	2	37.2	91.6	67	79.2	n.d.	3	11.8	4.10	37.5	123	51.0	531	121	36	15
1049	Wooster, OH	NC-2022-013	2	37.3	87.8	63	79.2	3.1	1	12.9	5.25	42.9	134	91.7	346	210	48	12
1050	Wooster, OH	NC-2022-015	2	35.7	88.2	64	79.6	2.9	1	12.5	4.99	41.6	151	84.0	354	185	51	18
1051	Wooster, OH	NC-2022-016	2	40.5	98.4	68	78.7	n.d.	3	12.1	4.28	37.1	105	44.9	402	123	34	26
1052	Wooster, OH	NC-2022-018	2	40.3	97.3	76	77.5	n.d.	3	12.1	4.26	38.0	105	48.5	285	159	30	33
1053	Wooster, OH	NC-2022-019	2	35.4	89.5	67	78.8	1.9	2	11.2	3.81	36.7	84	43.7	567	116	22	12
1054	Wooster, OH	NC-2022-021	2	38.7	97.2	70	79.0	n.d.	3	11.4	3.81	35.5	109	45.2	524	111	29	22
1055	Wooster, OH	NC-2022-023	2	35.9	92.2	75	80.2	1.2	1	11.4	4.14	38.7	102	60.6	200	146	38	37
1056	Wooster, OH	NC-2022-026	2	41.5	96.0	66	78.2	1.4	1	12.5	4.19	35.6	135	51.6	316	127	42	21
1057	Wooster, OH	NC-2022-028	2	45.3	98.0	60	78.2	1.2	1	12.2	4.28	36.4	152	54.1	214	116	43	22

2022 Crop Year Breeders' Submissions

Lab No.	Location	Variety or Selection	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agron)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (*ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)	Adjunct Quality Score	All Malt Quality Score
1058	Wooster, OH	NC-2022-029	2	43.1	97.3	62	78.6	1.5	1	11.7	4.03	36.8	141	46.0	177	123	40	18
1059	Wooster, OH	NC-2022-033	2	38.7	96.9	68	81.2	1.9	2	10.9	4.25	40.5	121	55.0	222	139	45	33
1060	Wooster, OH	NC-2022-034	2	39.3	97.8	64	78.0	n.d.	3	11.2	4.07	37.7	105	35.3	721	110	24	25
1061	Wooster, OH	NC-2022-035	2	40.2	98.0	62	79.5	1.3	1	12.4	4.41	38.6	129	46.5	437	135	42	24
1062	Wooster, OH	NC-2022-036	2	39.3	91.5	76	79.9	2.0	2	10.6	4.19	41.8	131	39.0	329	132	35	31
1063	Wooster, OH	NC-2022-037	2	44.1	96.0	52	78.4	2.4	2	10.5	4.20	41.8	131	44.4	290	128	39	28
1064		CONRAD MALT CHECK	2	40.3	97.6	89	83.5	1.7	1	11.5	5.36	49.3	131	109.0	30	275	64	35
1065	Wooster, OH	NC-2022-039	2	43.5	97.5	57	78.4	1.5	1	12.0	4.45	39.9	150	59.2	45	151	50	38
1066	Wooster, OH	NC-2022-040	2	38.3	97.0	59	80.4	1.7	1	10.9	3.94	38.1	125	45.4	128	121	35	28
1067	Wooster, OH	NC-2022-041	2	41.6	98.0	58	77.8	1.6	1	12.4	4.13	35.5	117	43.8	353	119	32	24
1068	Wooster, OH	NC-2022-042	2	42.7	96.5	63	76.2	1.5	1	13.0	4.13	34.0	120	41.4	467	124	28	25
1069		CONRAD MALT CHECK	2	41.3	97.7	87	83.9	1.7	1	11.8	5.35	49.5	136	113.4	23	268	64	30
1070	Wooster, OH	NC-2022-043	2	39.9	94.9	68	78.4	1.6	2	11.2	3.85	35.7	113	49.8	242	130	30	23
1071	Wooster, OH	NC-2022-044	2	40.8	95.0	72	77.4	1.9	2	11.0	3.81	35.7	115	48.4	418	119	28	25
1072	Wooster, OH	NC-2022-045	2	35.3	94.0	71	83.0	1.8	2	10.3	3.79	38.5	98	52.0	237	135	28	35
1073	Wooster, OH	NC-2022-046	2	41.5	95.8	63	77.2	1.5	1	13.4	4.33	34.4	144	54.0	388	169	33	28
1074	Wooster, OH	NC-2022-047	2	38.9	94.3	65	79.9	1.1	1	11.5	4.02	35.8	136	53.1	337	147	43	26
1075	Wooster, OH	NC-2022-048	2	41.5	96.2	60	78.2	1.9	2	12.1	4.17	36.2	119	44.2	245	153	35	30
1076	Wooster, OH	NC-2022-049	2	38.1	94.0	60	77.2	1.9	2	12.6	4.03	33.6	116	44.2	490	131	29	20
1077	Wooster, OH	NC-2022-050	2	41.2	95.4	67	79.5	1.3	1	12.1	4.67	41.3	146	73.7	330	189	53	30
1078	Wooster, OH	NC-2022-051	2	39.8	96.4	57	77.7	2.4	2	11.6	3.86	34.8	119	42.5	329	111	26	14
1080	Wooster, OH	NC-2022-053	2	38.7	94.2	67	78.3	2.4	2	12.2	4.28	35.8	144	50.8	275	135	39	21
1081	Wooster, OH	NC-2022-054	2	38.0	96.1	52	82.0	1.5	1	11.8	4.20	37.0	118	46.0	278	161	38	37
1082	Wooster, OH	NC-2022-055	2	40.8	95.6	77	81.3	1.1	1	11.1	3.94	38.1	97	44.0	373	141	35	33
1083	Wooster, OH	NC-2022-056	2	39.8	88.5	56	80.1	1.2	1	11.8	3.82	34.6	96	44.0	531	133	28	21
1084		CONRAD MALT CHECK	2	40.5	97.4	86	84.2	1.6	1	12.4	5.24	44.3	110	93.6	248	276	59	33
1085	Wooster, OH	NC-2022-058	2	43.8	97.4	64	79.3	1.1	1	11.9	4.07	37.2	151	52.9	365	129	43	18
1086	Wooster, OH	NC-2022-059	2	41.6	97.4	61	80.9	n.d.	3	12.1	4.60	40.0	91	42.7	334	173	33	29
1087	Wooster, OH	NC-2022-060	2	43.0	96.6	58	77.8	2.0	2	12.5	4.19	35.0	102	54.9	347	165	35	35
1088		CONRAD MALT CHECK	2	40.0	97.1	88	84.2	1.6	1	12.3	5.16	44.6	115	99.9	247	227	59	33
1089	Wooster, OH	NC-2022-062	2	38.5	92.7	55	79.7	1.2	1	12.3	3.98	34.2	116	46.5	540	125	34	21
1090	Wooster, OH	NC-2022-063	2	38.5	92.8	53	79.7	2.0	2	11.2	3.84	34.3	101	31.6	405	130	29	29
1091	Wooster, OH	NC-2022-067	2	40.3	95.6	70	82.4	1.6	1	11.5	4.69	44.8	124	64.8	466	198	56	30
1092	Wooster, OH	NC-2022-069	2	40.4	96.6	71	80.9	2.2	2	10.9	3.87	36.3	88	40.8	552	129	26	23
1093	Wooster, OH	NC-2022-070	2	43.2	97.7	66	79.7	1.2	1	12.1	4.34	37.6	100	41.6	361	147	40	35
1094	Wooster, OH	NC-2022-071	2	34.4	91.6	69	80.3	1.8	2	10.7	3.65	36.1	90	38.2	399	105	18	19
1095	Wooster, OH	NC-2022-072	2	36.5	95.0	63	80.5	n.d.	3	10.7	4.04	39.3	98	39.2	406	126	20	26
1096	Wooster, OH	NC-2022-073	2	38.9	97.5	63	80.5	1.1	1	11.0	4.34	41.1	99	43.8	275	161	38	41
1097	Wooster, OH	NC-2022-075	2	38.9	96.0	57	78.1	n.d.	3	12.9	4.79	39.1	144	54.1	256	171	38	19
1098	Wooster, OH	NW-2022-001	2	36.0	86.8	73	80.8	1.2	1	10.6	4.58	45.9	124	79.3	398	172	39	27
1099	Wooster, OH	NW-2022-002	2	37.2	92.0	68	80.1	1.3	2	11.5	4.64	43.4	108	43.1	404	166	39	36
1100		CONRAD MALT CHECK	2	40.4	97.6	89	84.2	1.3	1	12.3	5.56	48.8	137	113.8	125	277	60	26
1101	Wooster, OH	NW-2022-003	2	40.0	97.1	64	81.2	n.d.	3	10.7	4.32	41.9	115	45.5	316	148	40	41
1102	Wooster, OH	NW-2022-004	2	42.2	98.0	72	81.0	1.1	2	10.7	4.33	43.5	108	44.6	280	144	42	41
1103	Wooster, OH	CK2-NC2-VIO	2	38.0	94.7	61	80.3	0.9	1	10.6	4.07	40.2	98	41.8	276	133	33	33
1104	Wooster, OH	NW-2022-005	2	42.6	98.0	62	81.3	1.4	2	11.4	4.77	44.1	146	53.5	258	185	56	27
1105	Wooster, OH	NW-2022-006	2	40.8	90.1	67	79.9	1.7	2	11.9	5.26	46.6	110	78.0	455	228	55	22
1106	Wooster, OH	NW-2022-007	2	41.9	95.3	75	80.5	1.8	2	12.1	5.47	48.2	101	80.9	325	243	50	24
1107	Wooster, OH	NW-2022-009	2	38.6	96.9	67	81.3	n.d.	3	10.8	4.55	45.1	121	50.7	256	165	44	27
1108	Wooster, OH	NW-2022-010	2	40.5	92.6	75	78.5	n.d.	3	11.0	4.25	41.7	98	42.1	599	145	30	32
1109	Wooster, OH	NW-2022-011	2	38.2	90.8	73	79.7	1.4	1	11.4	4.95	45.2	118	67.1	530	193	52	28
1110	Wooster, OH	NW-2022-012	2	36.8	91.4	72	79.4	n.d.	3	10.8	4.36	42.9	106	47.5	654	136	30	32
1111	Wooster, OH	NW-2022-013	2	37.5	90.4	67	79.5	1.7	2	12.1	5.28	47.3	121	84.6	526	219	49	8
1112	Wooster, OH	NW-2022-015	2	38.1	91.5	72	79.5	n.d.	3	11.3	4.87	45.5	116	68.7	535	184	50	26
1113	Wooster, OH	NW-2022-016	2	42.0	97.1	67	79.0	n.d.	3	11.8	4.35	37.9	102	44.7	492	133	35	30
1114	Wooster, OH	NW-2022-018	2	39.8	94.8	73	77.3	n.d.	3	11.5	4.56	39.8	96	43.9	384	147	24	26
1115	Wooster, OH	NW-2022-019	2	34.7	81.8	74	79.0	n.d.	3	10.7	4.28	42.8	75	40.2	565	115	21	17
1116	Wooster, OH	NW-2022-021	2	39.2	96.6	73	78.9	n.d.	3	11.1	4.12	38.1	100	41.9	598	115	28	25
1117		CONRAD MALT CHECK	2	41.0	97.8	88	83.9	1.3	1	11.1	5.51	52.2	118	106.6	309	246	54	31
1118	Wooster, OH	NW-2022-026	2	41.4	95.7	67	78.2	n.d.	3	11.5	4.73	43.9	122	52.7	412	139	45	20
1119	Wooster, OH	NW-2022-028	2	45.9	98.3	65	78.7	n.d.	3	11.4	4.42	38.8	131	48.1	366	129	38	25
1120	Wooster, OH	NW-2022-029	2	41.8	94.8	64	79.0	n.d.	3	10.4	4.26	42.4	114	43.4	470	126	34	38
1121	Wooster, OH	NW-2022-033	2	39.0	95.8	66	80.6	n.d.	3	10.8	4.42	43.7	108	47.1	284	135	35	37
1122	Wooster, OH	NW-2022-034	2	39.3	98.9	67	78.6	n.d.	3	11.7	4.30	37.7	107	37.8	656	120	28	24
1123	Wooster, OH	NW-2022-035	2	41.7	98.5	64	80.5	1.6	2	11.4	4.75	42.5	120	44.6	506	146	43	31
1124	Wooster, OH	NW-2022-036	2	39.7	92.9	79	80.7	n.d.	3	10.0	4.44	44.4	110	40.0	487	139	31	42

2022 Crop Year Breeders' Submissions

Lab No.	Location	Variety or Selection	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agron)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (*ASBC)	Alpha-amylase (20*DU)	Beta-glucan (ppm)	FAN (ppm)	Adjunct Quality Score	All Malt Quality Score
1125		CONRAD MALT CHECK	2	40.9	98.0	87	83.7	1.7	1	12.4	5.55	47.8	111	102.6	311	262	54	30
1126	Wooster,OH	NW-2022-038	2	39.2	89.0	69	79.4	n.d.	3	11.7	5.00	44.7	119	59.5	374	170	45	18
1127	Wooster,OH	NW-2022-039	2	40.3	90.3	68	78.0	1.9	2	11.6	4.61	44.7	117	47.9	289	149	40	22
1128	Wooster,OH	NW-2022-040	2	39.6	97.3	63	81.6	1.6	2	10.5	4.29	41.5	110	42.2	222	135	39	45
1129	Wooster,OH	NW-2022-041	2	41.1	98.6	60	78.6	1.3	2	12.6	4.56	38.3	111	43.7	536	132	35	26
1130	Wooster,OH	NW-2022-042	2	40.2	95.2	70	76.7	n.d.	3	12.0	4.39	38.7	99	38.8	593	125	22	22
1131		CONRAD MALT CHECK	2	40.7	97.6	88	84.1	1.7	1	12.3	5.65	50.0	114	102.5	283	260	50	30
1132	Wooster,OH	NW-2022-043	2	40.8	93.4	75	77.5	n.d.	3	10.4	4.26	42.4	95	45.8	348	128	26	34
1133	Wooster,OH	NW-2022-044	2	40.0	93.5	73	78.0	n.d.	3	11.2	4.41	40.1	112	46.2	550	119	39	33
1134	Wooster,OH	NW-2022-045	2	39.9	98.4	74	82.4	n.d.	3	9.8	4.33	45.3	99	53.0	314	131	37	40
1135	Wooster,OH	NW-2022-046	2	39.3	96.2	68	78.3	n.d.	3	11.4	4.69	42.2	137	54.5	479	144	43	23
1136	Wooster,OH	NW-2022-047	2	41.4	96.2	71	81.1	1.4	2	11.0	4.40	40.5	121	52.8	506	136	52	35
1137	Wooster,OH	NW-2022-048	2	41.1	97.1	65	78.2	1.9	1	11.1	4.68	44.3	122	49.8	224	146	44	25
1138	Wooster,OH	NW-2022-049	2	39.0	92.8	68	78.1	n.d.	3	11.4	4.31	40.4	112	49.3	491	126	37	31
1139	Wooster,OH	NW-2022-050	2	41.5	94.2	72	79.6	1.6	1	11.7	4.90	44.6	119	69.9	413	183	54	28
1140	Wooster,OH	NW-2022-051	2	40.5	95.4	63	78.1	n.d.	3	11.6	4.30	37.5	117	46.4	436	113	34	22
1141	Wooster,OH	NW-2022-052	2	41.1	97.2	63	77.9	1.3	1	11.8	4.46	41.0	136	43.2	343	131	40	26
1142	Wooster,OH	NW-2022-053	2	38.9	95.8	68	78.5	n.d.	3	11.8	4.38	40.6	139	48.3	281	115	40	19
1143	Wooster,OH	NW-2022-054	2	39.0	97.0	60	81.4	1.6	1	11.2	4.53	43.0	111	41.6	325	143	45	37
1144	Wooster,OH	NW-2022-055	2	40.0	95.9	79	81.4	1.3	1	10.4	4.19	40.8	100	42.9	390	124	36	39
1145		CONRAD MALT CHECK	2	40.7	97.7	88	83.8	1.8	1	11.4	5.58	49.4	115	103.8	93	243	61	42
1146	Wooster,OH	NW-2022-057	2	38.5	94.4	81	79.5	2.5	2	11.1	4.27	41.5	90	43.3	366	118	37	25
1147	Wooster,OH	NW-2022-058	2	43.2	94.7	68	77.8	2.1	1	11.6	4.66	43.1	113	42.2	461	141	38	28
1148	Wooster,OH	NW-2022-059	2	40.9	96.3	68	81.2	n.d.	3	11.3	4.95	46.7	87	39.5	385	173	41	26
1149	Wooster,OH	NW-2022-060	2	42.5	94.4	66	77.5	n.d.	3	12.1	4.42	39.5	86	53.2	383	127	30	22
1150	Wooster,OH	NW-2022-061	2	42.9	96.4	70	79.6	2.3	1	11.3	5.43	49.5	117	92.1	181	223	52	25
1151	Wooster,OH	NW-2022-062	2	36.6	89.1	63	79.2	2.2	2	9.8	4.00	40.9	90	38.0	507	116	21	17
1152	Wooster,OH	NW-2022-063	2	39.0	93.6	62	80.0	2.4	2	10.8	4.13	39.4	95	34.1	475	104	23	28
1153	Wooster,OH	NW-2022-067	2	39.7	93.6	75	82.0	2.4	2	11.1	4.79	44.8	125	67.3	430	160	50	38
1154	Wooster,OH	NW-2022-069	2	39.9	95.0	73	80.3	2.4	2	10.6	4.34	41.3	97	49.5	530	133	32	36
1155	Wooster,OH	NW-2022-070	2	42.2	97.7	69	79.9	1.5	1	12.0	4.52	39.5	96	39.5	429	125	32	26
1156	Wooster,OH	NW-2022-071	2	35.7	93.0	77	80.6	n.d.	3	9.9	3.90	40.7	86	36.4	450	101	22	28
1157	Wooster,OH	NW-2022-072	2	38.5	96.0	73	81.1	2.2	2	9.2	3.89	43.8	97	34.9	439	93	28	24
1158	Wooster,OH	NW-2022-073	2	39.9	96.5	71	80.0	2.3	2	9.9	4.13	41.8	103	35.0	359	116	32	42
1159	Wooster,OH	NW-2022-075	2	39.9	94.7	62	78.8	n.d.	3	10.9	4.43	43.4	130	48.1	362	124	35	22
1160	Wooster,OH	HS-2022-001	2	33.4	90.7	54	80.0	2.3	1	10.0	4.09	41.0	115	49.8	197	131	35	36
1161		CONRAD MALT CHECK	2	40.3	98.2	88	84.0	1.5	1	11.7	5.64	52.4	126	110.7	125	241	56	26
1162	Wooster,OH	HS-2022-002	2	38.4	93.5	53	79.0	n.d.	3	11.6	4.72	43.5	131	53.7	371	129	43	10
1163	Wooster,OH	HS-2022-003	2	39.7	98.6	53	81.3	n.d.	3	10.8	4.39	43.4	120	40.0	401	107	41	27
1164	Wooster,OH	HS-2022-004	2	41.8	97.2	53	80.1	n.d.	3	12.0	4.33	38.5	104	33.4	653	111	33	31
1165	Wooster,OH	HS-2022-005	2	36.9	90.7	46	80.8	1.4	1	11.6	4.74	41.7	141	56.3	387	149	46	20
1166	Wooster,OH	HS-2022-006	2	38.5	95.0	56	80.3	n.d.	3	11.7	4.43	38.7	115	33.9	540	121	31	25
1167	Wooster,OH	HS-2022-007	2	35.9	94.2	58	79.7	n.d.	3	11.5	4.22	36.9	111	35.8	565	110	29	25
1168	Wooster,OH	HS-2022-008	2	38.6	94.4	58	76.9	n.d.	3	13.6	4.69	37.0	127	46.6	561	138	21	16
1169	Wooster,OH	HS-2022-009	2	40.5	95.9	54	78.5	n.d.	3	11.0	4.43	42.1	95	39.7	588	130	31	29
1170	Wooster,OH	HS-2022-010	2	39.2	94.8	54	81.3	n.d.	3	11.2	4.36	40.2	119	37.6	484	117	39	32
1171	Wooster,OH	HS-2022-011	2	40.2	98.3	52	81.1	n.d.	3	10.8	4.41	41.3	115	39.2	418	122	36	34
1172	Wooster,OH	HS-2022-012	2	40.0	93.4	50	79.8	1.3	2	11.0	4.48	41.3	119	37.7	420	128	37	31
1173	Wooster,OH	HS-2022-013	2	39.5	95.5	52	81.9	1.3	1	11.3	4.56	41.7	132	49.3	386	140	48	35
1174	Wooster,OH	HS-2022-014	2	38.1	96.8	61	78.4	1.3	2	12.2	4.48	37.5	148	38.5	555	120	32	18
1175	Wooster,OH	HS-2022-015	2	38.4	96.8	60	81.5	n.d.	3	12.0	4.44	37.3	119	43.4	389	120	38	30
1176	Wooster,OH	HS-2022-016	2	40.2	89.3	52	77.9	1.2	2	12.7	4.46	35.4	124	38.5	558	114	28	18
1177	Wooster,OH	HS-2022-017	2	38.3	93.3	57	79.6	n.d.	3	11.8	4.49	39.1	117	33.5	576	117	31	25
1178	Wooster,OH	HS-2022-018	2	39.0	97.7	54	79.3	1.4	2	12.8	4.54	36.5	146	37.8	576	127	32	14
1179	Wooster,OH	HS-2022-019	2	39.2	98.4	53	80.4	1.8	2	11.5	3.73	33.9	115	35.2	457	117	29	24
1180	Wooster,OH	HS-2022-020	2	37.6	93.6	55	81.1	1.5	1	10.0	3.67	38.1	98	40.0	317	132	22	31
1181	Wooster,OH	HS-2022-021	2	39.7	94.6	63	81.2	1.8	2	11.4	3.76	34.4	116	46.3	462	128	36	24
1182	Wooster,OH	HS-2022-022	2	38.6	94.6	51	80.5	1.6	1	10.3	3.66	35.9	115	42.7	306	132	29	37
1183	Wooster,OH	HS-2022-023	2	39.6	93.2	51	81.4	1.9	1	11.5	3.92	35.8	124	49.1	488	134	40	28
1184	Wooster,OH	HS-2022-024	2	39.3	94.6	52	80.5	1.7	1	11.0	3.78	36.4	118	37.7	357	135	30	28
1185	Wooster,OH	CK3-NC2-VIO	2	38.0	94.2	62	80.5	1.4	1	10.7	3.64	35.4	111	43.7	172	109	29	29
1186	Wooster,OH	HS-2022-025	2	37.3	90.5	47	78.5	2.3	2	12.0	3.91	33.6	131	51.0	467	122	34	12
1187	Wooster,OH	HS-2022-026	2	32.1	83.1	52	79.1	1.6	1	11.2	3.96	37.9	133	60.0	160	150	30	16
1188	Wooster,OH	HS-2022-027	2	30.6	81.4	50	79.2	1.6	1	11.1	3.95	35.8	134	65.7	95	161	37	32
1189	Wooster,OH	HS-2022-028	2	33.7	89.1	56	79.8	n.d.	3	11.1	3.65	34.1	121	52.7	475	113	34	14
1190	Wooster,OH	HS-2022-029	2	35.4	93.9	54	80.6	1.4	1	10.9	3.78	37.3	129	54.9	258	125	33	20

2022 Crop Year Breeders' Submissions

Lab No.	Location	Variety or Selection	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agron)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (*ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)	Adjunct Quality Score	All Malt Quality Score
1191	Wooster, OH	HS-2022-030	2	34.2	82.6	56	78.7	1.6	1	12.6	4.10	35.4	140	63.2	383	148	33	11
1192	Wooster, OH	HS-2022-031	2	40.2	95.7	49	81.5	1.5	1	11.2	3.85	37.2	148	49.9	303	119	42	24
1193		CONRAD MALT CHECK	2	41.1	97.4	88	84.7	1.5	1	11.9	4.84	42.5	145	121.8	115	240	65	31
1194	Wooster, OH	HS-2022-032	2	40.3	96.7	50	81.4	1.4	1	11.0	3.81	35.6	153	54.2	252	130	40	24
1195	Wooster, OH	HS-2022-033	2	35.8	92.5	61	80.4	2.1	2	11.4	4.12	38.6	126	64.3	547	146	40	29
1196	Wooster, OH	HS-2022-034	2	38.6	92.9	63	82.2	1.7	2	10.3	3.57	36.3	115	43.4	257	106	31	34
1197	Wooster, OH	HS-2022-035	2	36.6	93.6	58	81.7	1.6	1	11.0	3.98	39.4	121	80.0	246	183	44	35
1198	Wooster, OH	HS-2022-036	2	35.0	95.3	57	81.5	1.8	2	10.4	3.49	35.7	122	58.5	353	132	35	32
1199	Wooster, OH	HS-2022-037	2	36.9	93.1	54	80.8	1.7	1	11.5	3.97	34.9	123	81.1	273	183	41	23
1200	Wooster, OH	HS-2022-038	2	42.8	98.3	54	80.7	1.5	1	11.0	3.80	37.0	155	60.4	285	157	43	32
1201	Wooster, OH	HS-2022-039	2	35.7	93.6	59	80.7	2.1	2	11.6	3.92	34.6	125	59.7	457	158	37	24
1202	Wooster, OH	HS-2022-040	2	36.8	88.8	60	82.6	2.2	2	10.4	3.82	37.5	139	61.8	522	164	33	34
1203	Wooster, OH	HS-2022-041	2	38.5	96.4	66	81.3	1.7	1	10.5	3.79	39.1	111	61.8	410	156	35	43
1204	Wooster, OH	HS-2022-042	2	40.1	98.0	54	81.4	2.8	2	10.1	3.47	34.7	107	44.9	435	120	33	35
1205	Wooster, OH	HS-2022-043	2	40.0	95.6	56	79.3	1.9	2	10.9	3.50	34.8	139	48.7	449	124	28	16
1206	Wooster, OH	HS-2022-044	2	40.4	98.5	56	82.1	1.4	1	10.8	3.62	35.6	144	59.3	146	143	43	35
1207	Wooster, OH	HS-2022-045	2	37.1	92.1	62	80.3	1.2	1	10.3	3.37	35.2	98	43.8	183	120	23	28
1208	Wooster, OH	HS-2022-046	2	40.7	94.8	56	80.4	1.5	1	11.8	3.71	32.3	141	54.9	374	140	42	22
1209	Wooster, OH	HS-2022-047	2	35.7	92.6	53	81.2	1.4	1	10.7	3.58	36.5	139	56.6	187	129	36	20
1210	Wooster, OH	HS-2022-048	2	37.2	89.4	66	80.8	1.2	1	10.2	3.34	34.7	63	42.3	426	121	21	23
1211	Wooster, OH	HS-2022-049	2	40.7	94.6	69	81.9	1.4	1	12.5	3.87	32.1	87	54.1	470	161	38	31
1212	Wooster, OH	HS-2022-050	2	37.5	90.5	66	80.6	1.3	1	10.3	3.39	35.9	61	42.9	470	117	23	25
1213	Wooster, OH	HS-2022-051	2	38.1	93.9	62	80.1	1.4	1	11.6	3.36	30.7	78	42.5	518	116	30	17
1214	Wooster, OH	HS-2022-052	2	37.6	88.1	61	79.4	2.2	1	11.9	3.59	32.2	81	48.3	489	133	23	11
1215	Wooster, OH	HS-2022-053	2	39.3	90.0	53	74.2	1.4	1	16.9	4.35	25.9	163	55.3	480	168	26	26
1216	Wooster, OH	HS-2022-054	2	34.1	84.5	46	80.6	1.5	1	11.3	3.59	33.0	93	45.7	443	137	23	18
1217	Wooster, OH	HS-2022-055	2	40.6	95.4	58	77.4	1.4	1	14.3	4.10	30.4	164	51.4	405	158	28	24
1218	Wooster, OH	HS-2022-056	2	41.5	97.5	58	79.3	1.5	1	12.8	4.20	34.8	165	58.4	300	180	45	24
1219	Wooster, OH	HS-2022-057	2	39.1	90.1	54	78.8	1.5	1	12.3	3.90	33.0	131	54.7	349	158	37	19
1220	Wooster, OH	HS-2022-058	2	39.2	91.0	53	78.4	1.4	1	13.3	3.91	31.0	132	57.2	448	156	32	22
1221	Wooster, OH	HS-2022-059	2	40.6	96.2	57	79.4	2.7	1	12.6	3.95	33.8	135	59.1	273	178	39	24
1222	Wooster, OH	HS-2022-060	2	37.4	81.7	48	78.4	3.0	1	12.2	3.62	32.2	122	49.1	427	148	27	8
1223	Wooster, OH	HS-2022-061	2	38.4	90.8	63	77.7	2.8	1	12.7	3.75	30.5	134	51.8	401	155	33	19
1224		CONRAD MALT CHECK	2	40.9	97.5	88	84.0	2.4	1	11.9	4.35	39.3	134	116.8	135	255	56	38
1225	Wooster, OH	HS-2022-062	2	40.0	89.9	48	77.8	2.3	1	12.1	3.42	29.0	125	48.9	512	128	28	10
1226	Wooster, OH	HS-2022-063	2	36.9	91.2	52	79.5	2.6	1	11.7	3.58	33.5	106	46.0	477	138	32	23
1227	Wooster, OH	HS-2022-064	2	38.0	85.4	53	77.2	2.7	1	12.8	3.50	28.0	122	52.2	493	136	31	13
1228	Wooster, OH	HS-2022-065	2	38.9	89.7	59	79.5	2.4	1	11.9	3.57	31.3	103	50.7	538	132	35	23
1229	Wooster, OH	HS-2022-066	2	39.0	92.1	59	77.5	2.5	1	13.1	3.65	28.1	128	51.7	333	136	28	15
1230	Wooster, OH	HS-2022-067	2	41.9	93.9	61	78.3	2.4	1	13.0	3.73	28.8	142	48.7	402	140	31	17
1231	Wooster, OH	HS-2022-068	2	40.5	93.0	54	74.0	2.5	1	16.6	4.16	25.2	169	47.7	488	165	25	28
1232	Wooster, OH	HS-2022-069	2	36.0	92.5	50	80.0	2.7	1	11.3	3.43	32.2	99	44.9	492	116	28	23
1233	Wooster, OH	HS-2022-070	2	40.4	94.8	60	77.5	3.1	2	13.1	3.63	28.9	135	50.2	560	132	29	16
1234	Wooster, OH	HS-2022-071	2	40.1	95.9	60	76.7	3.2	2	12.4	3.59	29.0	129	46.6	546	127	31	13
1235	Wooster, OH	HS-2022-072	2	31.6	89.6	52	80.5	n.d.	3	10.1	3.20	32.8	85	53.0	487	110	22	21
1236	Wooster, OH	HS-2022-073	2	31.9	84.9	54	79.8	n.d.	3	10.0	3.27	33.1	85	51.5	472	112	19	16
1237	Wooster, OH	HS-2022-074	2	37.9	93.7	59	80.9	n.d.	3	10.3	3.40	35.1	103	58.6	487	115	28	30
1238	Wooster, OH	HS-2022-075	2	37.0	92.7	59	81.8	4.4	2	10.5	3.49	35.3	96	79.2	395	141	28	32
1239	Wooster, OH	HS-2022-076	2	38.4	94.2	57	79.5	2.9	1	11.3	3.33	32.1	85	58.3	459	126	33	17
1240	Wooster, OH	HS-2022-077	2	36.7	92.1	56	78.9	n.d.	3	11.2	3.28	31.0	96	56.7	423	116	26	16
1241	Wooster, OH	HS-2022-078	2	36.2	92.3	58	81.0	3.2	1	9.9	3.34	34.4	106	57.4	494	121	33	32
1242	Wooster, OH	HS-2022-079	2	35.6	88.6	54	79.7	2.7	1	10.1	3.27	34.2	112	55.9	521	117	28	28
1243	Wooster, OH	HS-2022-080	2	35.4	78.1	54	76.7	3.2	1	10.9	3.17	29.7	89	57.2	488	112	14	10
1244	Wooster, OH	HS-2022-081	2	36.9	93.8	50	79.2	3.3	1	11.1	3.20	31.1	119	53.4	543	111	32	18
1245	Wooster, OH	HS-2022-082	2	37.8	92.0	58	78.8	1.8	1	11.0	3.26	30.6	103	50.0	547	113	27	22
1246	Wooster, OH	HS-2022-083	2	40.3	93.7	58	79.4	1.5	1	12.0	3.36	28.6	86	48.9	569	125	32	14
1247	Wooster, OH	HS-2022-084	2	34.1	85.3	51	77.0	1.5	1	10.8	3.22	30.0	105	52.6	503	107	21	20
1248	Wooster, OH	HS-2022-085	2	39.7	95.6	56	80.1	1.7	2	11.2	3.19	29.9	85	41.6	616	108	29	21
1249	Wooster, OH	HS-2022-086	2	33.3	89.4	52	79.4	1.7	2	10.9	3.16	31.0	92	43.1	543	98	17	12
1250	Wooster, OH	HS-2022-087	2	37.6	94.1	60	76.6	1.6	1	13.3	3.63	28.3	132	48.6	518	141	23	13
1251	Wooster, OH	HS-2022-088	2	39.9	92.6	62	81.3	1.8	1	10.6	3.98	38.0	96	78.5	425	202	34	30
1252	Wooster, OH	HS-2022-089	2	30.8	81.6	48	80.7	2.2	2	9.8	3.21	34.0	84	56.8	389	125	20	19
1253	Wooster, OH	SL-2022-001	2	35.8	94.5	56	80.4	1.5	1	12.1	3.48	30.4	129	64.7	213	140	38	18
1254	Wooster, OH	SL-2022-002	2	34.5	88.2	54	78.9	1.7	1	10.9	3.33	32.3	110	51.0	395	139	25	23
1255		CONRAD MALT CHECK	2	39.8	97.1	88	84.3	1.6	1	10.3	4.13	40.2	125	107.1	90	245	58	50
1256	Wooster, OH	SL-2022-003	2	40.0	95.4	49	81.4	1.6	1	11.0	3.27	31.0	123	46.0	223	128	35	22

2022 Crop Year Breeders' Submissions

Lab No.	Location	Variety or Selection	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agtron)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (*ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)	Adjunct Quality Score	All Malt Quality Score
1257	Wooster, OH	SL-2022-004	2	35.2	87.1	61	81.3	1.7	1	9.5	3.20	34.4	77	40.7	249	115	24	18
1258	Wooster, OH	SL-2022-005	2	37.3	95.1	51	80.7	1.7	1	10.9	3.34	32.7	117	45.3	246	127	27	23
1259	Wooster, OH	SL-2022-006	2	37.9	95.5	62	78.5	1.5	1	12.1	3.43	30.1	98	42.9	486	126	25	13
1260	Wooster, OH	SL-2022-007	2	36.6	91.5	57	80.4	1.5	1	11.3	3.36	30.3	121	46.5	387	122	35	20
1261	Wooster, OH	SL-2022-008	2	38.5	95.6	51	80.3	1.6	1	11.3	3.39	32.4	121	48.2	355	123	37	22
1262	Wooster, OH	SL-2022-009	2	38.4	97.7	52	80.5	1.7	1	11.4	3.51	31.5	116	36.3	438	132	30	28
1263	Wooster, OH	SL-2022-010	2	36.4	93.5	55	80.4	1.4	1	11.2	3.60	34.1	102	44.7	407	144	32	30
1264	Wooster, OH	SL-2022-011	2	37.3	90.6	45	80.0	1.7	1	10.7	3.42	33.6	116	50.7	484	114	30	23
1265	Wooster, OH	SL-2022-012	2	39.7	97.2	54	81.7	1.6	1	11.1	3.52	33.0	158	62.1	199	134	43	30
1266	Wooster, OH	SL-2022-013	2	35.3	82.3	64	79.8	1.4	1	11.2	3.28	31.2	78	40.3	431	115	23	13
1267	Wooster, OH	SL-2022-014	2	38.1	94.7	53	80.6	n.d.	3	10.5	4.42	43.6	118	37.7	488	102	31	30
1268	Wooster, OH	CK1-NC3-VIO	2	36.8	92.5	62	80.2	1.2	1	10.5	4.17	43.6	102	40.9	226	120	35	39
1269	Aberdeen, ID	Charles	2	38.0	95.7	86	85.5	1.8	1	9.4	4.84	54.1	115	93.3	37	203	52	36
1270	Aberdeen, ID	Endeavor	2	37.6	96.7	84	82.9	1.9	2	10.3	4.96	51.1	127	92.4	96	194	52	38
1271	Aberdeen, ID	Lightning	2	39.1	97.8	86	83.8	2.1	1	10.6	5.05	49.4	111	84.7	44	222	54	40
1272	Aberdeen, ID	Thunder	2	39.1	97.5	87	84.2	2.6	1	9.3	5.32	61.1	107	101.1	48	242	54	40
1273	Aberdeen, ID	Wintmalt	2	41.9	97.6	81	81.3	n.d.	3	9.4	4.43	47.6	113	55.8	111	153	41	43
1274	Aberdeen, ID	11ARS652-7	2	40.0	97.3	82	84.1	1.9	2	9.5	4.76	55.8	97	62.1	71	184	43	36
1275	Aberdeen, ID	12ARSS78-3	2	35.0	96.7	77	80.6	1.2	1	9.7	3.86	43.4	95	39.9	318	94	24	23
1276	Aberdeen, ID	13ARSS03-1	2	36.3	95.5	78	83.7	1.8	2	9.9	4.99	51.5	112	71.4	199	185	42	41
1277	Aberdeen, ID	13ARSS14-5	2	36.3	93.4	81	80.5	1.4	1	9.5	4.61	50.0	108	81.0	126	172	36	39
1278	Aberdeen, ID	13ARSS14-6	2	38.4	95.3	82	81.7	1.4	1	9.2	4.42	49.3	104	78.3	109	162	41	50
1279	Aberdeen, ID	13ARSS26-8	2	36.7	97.3	81	83.7	2.2	1	9.4	5.05	54.3	102	96.9	75	204	50	38
1280	Aberdeen, ID	13ARSS37-19	2	41.1	97.2	75	83.2	2.1	1	10.4	5.32	54.1	118	92.9	104	221	52	39
1281	Aberdeen, ID	16ARS622-248	2	36.7	92.8	86	84.2	2.1	2	9.4	4.75	54.9	86	73.2	48	186	41	36
1282	Aberdeen, ID	16ARS627-037	2	39.1	96.4	81	83.4	2.2	1	11.1	5.55	51.1	127	97.5	99	238	62	33
1283	Aberdeen, ID	16ARS638-28	2	42.0	97.0	90	83.3	2.5	2	9.5	5.33	57.8	95	81.0	68	249	52	38
1284	Aberdeen, ID	15ARS601-3	2	39.5	96.9	84	81.5	1.4	1	10.0	4.62	47.3	131	73.7	158	164	41	44
1285	Aberdeen, ID	15ARS602-1	2	39.5	97.1	85	82.1	1.8	1	11.8	5.37	48.7	128	73.0	67	210	60	31
1286	Aberdeen, ID	CONRAD MALT CHECK	2	40.5	97.4	88	84.3	2.1	1	11.4	5.77	54.0	124	106.5	79	259	60	35
1287	Aberdeen, ID	15ARS604-2	2	41.5	98.1	85	82.9	2.2	1	11.4	5.43	51.7	138	90.7	59	226	64	35
1288	Aberdeen, ID	15ARS605-3	2	37.1	96.4	79	81.5	1.6	1	10.6	4.67	47.1	121	73.8	174	151	39	37
1289	Aberdeen, ID	15ARS607-1	2	42.0	98.0	88	83.9	2.0	1	9.4	4.89	56.5	93	74.4	39	187	51	42
1290	Aberdeen, ID	15ARS613-2	2	35.2	91.4	82	82.2	1.6	1	9.9	4.68	51.1	110	84.7	162	150	36	42
1291	Aberdeen, ID	15ARS614-3	2	38.5	97.1	79	84.3	2.0	1	9.4	4.71	54.1	98	82.0	83	190	44	39
1292	Aberdeen, ID	15ARS615-3	2	41.2	97.5	83	84.2	1.9	1	8.4	4.44	57.7	106	75.4	34	167	47	56
1293	Aberdeen, ID	15ARS617-1	2	43.4	97.8	79	83.7	2.4	1	10.5	5.34	51.8	174	98.2	49	233	60	36
1294	Aberdeen, ID	16ARS623-2	2	39.6	96.9	87	82.7	1.7	1	10.0	4.60	48.8	123	86.3	157	181	44	37
1295	Aberdeen, ID	16ARS624-1	2	36.9	95.6	83	83.4	1.6	1	9.2	4.29	50.3	87	78.6	79	159	39	45
1296	Aberdeen, ID	16ARS628-2	2	41.8	97.9	91	83.2	1.6	1	9.0	4.72	54.4	112	83.3	43	195	50	45
1297	Aberdeen, ID	16ARS634-2	2	37.9	97.5	84	83.0	1.5	1	9.4	4.35	49.0	114	90.0	29	166	43	52
1298	Aberdeen, ID	16ARS640-1	2	43.1	97.9	84	83.8	1.9	1	10.1	4.89	49.2	126	87.9	76	202	58	41
1299	Aberdeen, ID	16ARS650-1	2	41.4	96.8	89	83.6	1.6	1	10.0	4.44	46.9	130	71.6	60	170	55	57
1300	Aberdeen, ID	18ARSS04-5	2	39.6	96.5	83	83.7	2.4	1	10.0	4.88	51.0	94	91.4	62	213	50	38
1301	Aberdeen, ID	18ARSS07-3	2	39.1	96.5	81	82.5	2.4	1	9.9	4.72	48.6	107	67.8	258	176	38	48
1302	Aberdeen, ID	18ARSS07-5	2	38.2	96.9	79	82.1	2.0	1	11.8	5.13	47.4	121	88.5	192	206	53	21
1303	Aberdeen, ID	18ARSS09-2	2	38.2	96.7	75	82.2	1.8	1	11.0	4.99	46.9	123	86.5	164	176	55	33
1304	Aberdeen, ID	18ARSS09-4	2	38.3	97.2	81	83.1	2.1	1	9.9	5.10	54.7	113	84.4	248	201	45	38
1305	Aberdeen, ID	18ARSS09-5	2	39.3	98.0	82	82.9	1.9	1	10.6	5.03	47.8	132	88.1	178	198	48	29
1306	Aberdeen, ID	18ARSS13-1	2	39.7	97.7	78	81.7	1.8	1	11.6	4.85	44.1	113	106.8	178	186	55	34
1307	Aberdeen, ID	18ARSS13-2	2	39.0	98.4	84	82.1	1.7	1	10.1	4.51	47.0	104	95.0	227	165	43	48
1308	Aberdeen, ID	18ARSS13-3	2	38.2	98.5	81	81.2	1.6	1	10.0	4.54	47.3	105	94.6	113	165	41	46
1309	Aberdeen, ID	18ARSS13-4	2	39.4	96.4	77	82.3	1.8	1	10.0	4.76	52.3	103	100.0	244	192	41	41
1310	Aberdeen, ID	18ARSS14-1	2	40.8	99.1	90	82.5	2.0	1	9.8	4.90	51.0	136	84.8	271	193	50	31
1311	Aberdeen, ID	18ARSS14-3	2	37.4	98.1	93	84.1	2.0	1	9.9	4.82	53.8	109	81.9	60	189	50	46
1312	Aberdeen, ID	18ARSS14-5	2	37.9	98.4	87	82.0	1.8	1	11.9	5.27	47.8	166	93.2	50	222	60	26
1313	Aberdeen, ID	18ARSS15-3	2	40.2	98.3	86	84.0	2.5	1	9.8	5.29	58.8	144	103.6	74	215	59	35
1314	Aberdeen, ID	18ARSS15-5	2	39.6	98.1	80	82.7	1.7	1	9.9	4.69	48.8	158	89.3	62	180	51	44
1315	Aberdeen, ID	18ARSS17-5	2	41.7	97.4	82	81.7	1.7	1	10.4	3.92	39.4	125	82.3	301	176	40	48
1316	Aberdeen, ID	18ARSS18-1	2	40.5	98.7	73	79.4	2.5	2	11.9	3.62	31.7	140	49.0	551	125	38	13
1317	Aberdeen, ID	18ARSS18-2	2	44.0	98.3	77	79.7	2.1	1	10.1	4.07	41.2	164	64.7	486	183	49	36
1318	Aberdeen, ID	18ARSS18-5	2	37.8	98.1	74	78.8	1.5	1	12.9	3.48	29.0	134	45.3	480	107	32	10
1319	Aberdeen, ID	CONRAD MALT CHECK	2	41.1	97.4	88	84.2	1.9	1	10.3	4.69	46.1	134	114.5	123	271	56	39
1320	Aberdeen, ID	18ARSS20-1	2	42.4	98.8	81	81.4	1.5	1	9.7	3.61	39.2	106	56.7	297	147	38	37
1321	Aberdeen, ID	18ARSS20-3	2	42.9	98.9	83	80.8	1.6	1	12.2	3.75	32.4	105	52.7	401	128	40	27
1322	Aberdeen, ID	18ARSS21-2	2	40.0	97.4	69	82.4	2.3	1	10.8	4.32	40.0	151	63.2	189	201	44	36

2022 Crop Year Breeders' Submissions

Lab No.	Location	Variety or Selection	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agtron)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (*ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)	Adjunct Quality Score	All Malt Quality Score
1323	Aberdeen, ID	18ARSS21-3	2	41.7	97.8	64	81.8	2.0	1	11.2	4.22	38.9	151	64.6	90	181	58	46
1324	Aberdeen, ID	18ARSS23-1	2	40.0	98.2	84	83.1	2.0	1	10.9	4.24	39.6	123	82.3	297	161	41	45
1325	Aberdeen, ID	18ARSS23-4	2	39.3	98.5	95	83.8	2.0	1	10.0	4.00	43.5	117	67.7	255	182	46	46
1326	Aberdeen, ID	18ARSS23-5	2	36.4	98.0	91	82.7	1.9	1	11.0	4.03	38.5	126	67.7	362	150	39	36
1327	Aberdeen, ID	18ARSS25-4	2	38.4	97.2	83	83.6	2.0	1	9.8	4.29	44.8	111	85.9	131	189	49	49
1328	Aberdeen, ID	18ARSS25-5	2	41.3	96.9	83	83.3	2.2	1	9.8	4.50	46.7	111	89.7	188	191	48	45
1329	Aberdeen, ID	18ARSS28-2	2	39.4	97.7	72	82.0	2.1	1	10.7	4.49	44.0	131	71.5	134	209	52	42
1330	Aberdeen, ID	18ARSS28-4	2	39.6	97.9	69	82.1	1.8	1	10.3	4.25	43.1	117	74.5	101	180	49	53
1331	Aberdeen, ID	18ARSS29-2	2	42.0	97.1	84	82.2	3.0	2	10.7	4.03	39.3	132	58.3	409	157	42	40
1332	Aberdeen, ID	18ARSS30-1	2	41.6	96.0	82	82.7	1.7	1	11.1	4.06	39.3	116	87.6	188	157	45	46
1333	Aberdeen, ID	18ARSS35-2	2	38.6	98.3	82	84.8	2.0	1	10.4	4.21	42.4	105	84.9	57	187	53	60
1334	Aberdeen, ID	18ARSS35-3	2	40.5	98.5	76	84.3	1.9	1	10.4	4.17	42.6	105	86.4	93	185	55	62
1335	Aberdeen, ID	18ARSS35-5	2	38.9	96.4	81	83.4	1.7	1	10.0	4.18	44.5	100	83.1	32	193	49	54
1336	Aberdeen, ID	Charles	2	37.7	92.5	80	80.8	1.5	1	12.3	4.29	37.9	137	94.0	154	187	44	27
1337	Aberdeen, ID	Endeavor	2	38.3	85.8	77	80.5	1.5	1	11.8	4.28	37.4	136	87.8	217	198	44	27
1338	Aberdeen, ID	Lightning	2	37.2	92.8	77	81.1	1.7	1	12.1	4.41	38.0	138	85.5	71	195	54	34
1339	Aberdeen, ID	Thunder	2	40.4	95.8	68	81.2	1.9	2	11.7	5.76	52.0	154	108.7	57	251	59	24
1340	Aberdeen, ID	Wintmalt	2	40.3	91.0	76	79.6	nd.	3	11.9	4.64	41.5	134	60.1	323	153	48	27
1341	Aberdeen, ID	11ARS652-7	2	37.5	80.1	75	80.8	1.3	1	12.0	5.46	47.9	154	71.2	77	232	52	19
1342	Aberdeen, ID	12ARSS78-3	2	36.4	91.3	74	78.5	1.0	2	12.6	4.43	36.4	130	44.1	504	130	34	16
1343	Aberdeen, ID	13ARSS03-1	2	39.2	87.1	75	81.9	1.3	1	11.7	5.33	47.7	146	74.8	365	214	53	22
1344	Aberdeen, ID	13ARSS14-5	2	35.1	81.8	77	79.2	1.5	1	12.4	5.27	45.8	176	91.5	192	226	47	4
1345	Aberdeen, ID	13ARSS14-6	2	37.4	87.2	80	79.9	1.4	1	12.0	5.29	46.7	162	93.3	182	226	53	10
1346	Aberdeen, ID	13ARSS26-8	2	37.5	90.3	77	80.8	1.6	1	11.1	5.54	51.4	146	99.5	160	252	50	19
1347	Aberdeen, ID	13ARSS37-19	2	41.2	95.2	75	82.9	1.6	1	10.6	5.41	54.4	157	102.8	111	241	55	31
1348	Aberdeen, ID	16ARS622-248	2	35.8	86.2	78	81.1	1.4	1	11.9	5.20	46.5	139	83.2	101	216	59	15
1349	Aberdeen, ID	16ARS627-037	2	38.6	83.3	79	81.9	1.7	1	11.5	5.57	52.6	161	100.0	208	250	50	16
1350	Aberdeen, ID	CONRAD MALT CHECK	2	40.8	98.0	88	84.3	1.5	1	11.7	5.56	49.2	140	110.8	123	257	60	26
1351	Aberdeen, ID	16ARS638-28	2	40.4	91.2	81	81.1	1.6	1	11.9	5.56	49.2	157	83.4	99	266	64	25
1352	Aberdeen, ID	15ARS601-3	2	36.3	79.2	75	78.0	1.3	1	13.2	5.06	38.7	176	82.3	269	206	35	7
1353	Aberdeen, ID	15ARS602-1	2	37.6	85.4	81	81.6	1.5	1	11.6	5.33	46.8	147	82.6	103	227	59	20
1354	Aberdeen, ID	15ARS604-2	2	39.6	93.7	83	83.1	1.4	1	9.5	5.05	55.0	150	102.0	47	223	57	33
1355	Aberdeen, ID	15ARS605-3	2	36.5	88.8	78	82.0	1.4	1	11.0	4.85	47.6	142	98.8	131	184	47	28
1356	Aberdeen, ID	15ARS607-1	2	40.6	95.7	86	83.8	1.7	2	9.3	4.97	56.7	122	89.1	49	216	58	34
1357	Aberdeen, ID	15ARS613-2	2	35.8	83.4	81	81.5	1.4	1	10.6	4.67	46.9	147	95.8	230	199	42	25
1358	Aberdeen, ID	15ARS614-3	2	36.7	89.5	77	83.5	2.1	1	10.7	5.25	51.8	142	99.8	98	250	53	29
1359	Aberdeen, ID	15ARS615-3	2	37.8	90.9	80	82.3	1.4	1	10.0	4.56	50.0	129	84.3	82	177	46	46
1360	Aberdeen, ID	15ARS617-1	2	38.8	93.5	76	83.1	1.9	1	11.5	5.37	50.9	189	97.4	93	220	62	28
1361	Aberdeen, ID	16ARS623-2	2	36.7	86.8	86	82.3	1.6	1	9.4	4.77	53.6	131	93.2	170	194	40	25
1362	Aberdeen, ID	16ARS624-1	2	36.2	91.0	81	83.3	1.7	1	10.4	4.82	50.8	119	94.1	99	201	50	39
1363	Aberdeen, ID	16ARS628-2	2	40.6	93.5	81	80.7	1.7	1	11.8	5.00	42.7	142	82.7	131	183	60	29
1364	Aberdeen, ID	16ARS634-2	2	35.1	88.4	82	80.9	1.5	1	10.5	4.61	48.2	124	93.9	132	157	37	35
1365	Aberdeen, ID	16ARS640-1	2	39.9	91.1	82	82.4	1.7	1	11.0	4.90	47.6	139	95.3	160	209	48	26
1366	Aberdeen, ID	16ARS650-1	2	38.3	94.5	86	83.1	1.7	1	10.2	4.77	49.2	127	73.0	148	173	44	44
1367	Aberdeen, ID	Charles	2	46.2	97.4	83	83.1	1.9	1	11.9	5.14	45.8	139	87.0	176	211	63	24
1368	Aberdeen, ID	Endeavor	2	42.4	97.8	82	81.8	1.7	1	11.9	4.97	45.4	147	85.5	256	193	61	27
1369	Aberdeen, ID	Lightning	2	44.9	98.0	80	82.9	2.0	1	12.2	5.35	46.4	131	87.8	101	210	64	27
1370	Aberdeen, ID	Thunder	2	43.2	98.1	65	83.1	3.4	1	11.7	6.04	55.3	144	102.1	66	304	58	31
1371	Aberdeen, ID	Wintmalt	2	47.2	97.9	73	81.2	2.2	2	12.2	4.81	41.2	140	57.2	276	161	57	28
1372	Aberdeen, ID	11ARS652-7	2	45.4	97.7	80	84.2	1.8	1	10.4	5.02	51.4	110	71.0	131	214	53	47
1373	Aberdeen, ID	12ARSS78-3	2	40.8	97.2	73	79.7	1.5	2	13.3	4.21	32.9	110	40.7	568	126	33	30
1374	Aberdeen, ID	13ARSS03-1	2	41.9	96.0	77	83.0	2.5	1	11.6	5.67	50.7	121	90.2	362	254	53	23
1375	Aberdeen, ID	13ARSS14-5	2	41.8	98.1	85	82.3	1.4	1	10.8	4.87	49.5	123	90.7	169	214	52	28
1376	Aberdeen, ID	13ARSS14-6	2	41.7	97.6	84	82.5	1.4	1	10.2	4.78	50.2	133	90.7	221	217	48	33
1377	Aberdeen, ID	13ARSS26-8	2	43.0	97.9	80	82.9	1.7	1	12.3	5.36	46.6	146	104.1	296	216	63	24
1378	Aberdeen, ID	13ARSS37-19	2	44.1	97.5	74	82.6	2.1	2	12.1	5.48	48.8	148	98.2	289	235	57	23
1379	Aberdeen, ID	16ARS622-248	2	45.0	97.5	79	83.8	2.1	1	11.0	5.24	50.6	116	89.9	115	241	58	35
1380	Aberdeen, ID	16ARS627-037	2	43.4	97.0	80	83.0	1.8	1	11.6	5.44	47.2	155	94.7	251	216	58	24
1381	Aberdeen, ID	CONRAD MALT CHECK	2	40.5	97.7	88	84.5	2.0	1	11.6	5.74	52.1	129	106.6	111	236	56	26
1382	Aberdeen, ID	16ARS638-28	2	45.4	97.7	88	82.6	2.3	1	11.9	5.72	51.0	135	89.3	189	254	54	24
1383	Aberdeen, ID	15ARS601-3	2	45.1	96.5	82	79.7	1.7	1	12.4	5.39	46.7	174	81.8	400	196	58	20
1384	Aberdeen, ID	15ARS602-1	2	41.9	96.5	84	83.1	2.1	1	10.8	5.49	54.1	133	88.7	178	216	52	28
1385	Aberdeen, ID	15ARS604-2	2	44.8	96.6	84	82.2	2.2	1	12.9	5.87	45.9	148	94.8	191	236	59	24
1386	Aberdeen, ID	15ARS605-3	2	41.6	94.8	81	81.8	1.9	1	12.1	5.07	44.7	142	96.3	300	169	57	33
1387	Aberdeen, ID	15ARS607-1	2	44.5	96.2	88	82.5	2.6	1	12.5	5.73	47.3	145	88.1	94	243	61	31
1388	Aberdeen, ID	15ARS613-2	2	40.7	96.6	85	81.6	1.8	1	11.7	4.80	43.1	134	80.6	464	172	57	33

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Lab No.	Location	Variety or Selection	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agtron)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (*ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)	Adjunct Quality Score	All Malt Quality Score
1389	Aberdeen, ID	15ARS614-3	2	43.1	95.3	77	82.4	2.4	1	12.4	5.82	47.6	155	103.8	215	240	54	24
1390	Aberdeen, ID	15ARS615-3	2	44.2	97.3	84	83.8	2.2	1	10.7	5.05	51.7	137	90.1	127	188	54	35
1391	Aberdeen, ID	15ARS617-1	2	45.7	97.1	82	83.8	2.6	1	11.9	5.89	52.0	193	103.2	111	241	57	27
1392	Aberdeen, ID	16ARS623-2	2	42.2	95.5	88	82.9	2.1	1	11.2	5.34	50.7	151	97.2	284	200	56	32
1393	Aberdeen, ID	16ARS624-1	2	41.8	96.7	83	83.5	2.3	1	11.4	5.19	47.7	117	97.3	173	191	52	34
1394	Aberdeen, ID	16ARS628-2	2	46.8	97.7	89	81.4	2.8	2	11.6	5.38	47.2	138	85.8	297	209	55	18
1395	Aberdeen, ID	16ARS634-2	2	41.6	97.2	86	83.4	1.8	1	10.8	4.94	49.3	116	102.3	188	185	47	34
1396	Aberdeen, ID	16ARS640-1	2	46.5	97.0	88	83.8	2.3	1	11.6	5.49	50.4	137	100.2	205	223	58	24
1397	Aberdeen, ID	16ARS650-1	2	44.1	97.1	87	83.4	2.2	1	11.5	5.21	49.7	146	81.0	170	195	56	32
1398	Casselton, ND	CONLON	2	43.0	97.8	47	81.0	1.8	1	12.6	5.04	41.5	127	87.1	455	181	61	27
1399	Casselton, ND	PINNACLE	2	42.0	97.1	43	82.8	2.0	1	11.2	4.74	44.3	85	77.2	470	172	46	38
1400	Casselton, ND	ND GENESIS	2	42.1	97.2	48	81.7	1.9	1	9.9	4.66	48.3	105	86.5	454	166	41	51
1401	Casselton, ND	AAC SYNERGY	2	44.2	97.7	50	82.9	2.8	1	12.4	6.42	53.8	153	132.1	32	296	58	31
1402	Casselton, ND	2ND32529	2	42.4	97.2	51	84.3	2.5	1	10.5	5.26	54.5	109	118.8	83	220	57	48
1403	Casselton, ND	2ND41748	2	44.4	96.2	49	85.2	2.1	1	10.8	5.21	53.0	119	94.2	29	213	57	39
1404	Casselton, ND	2ND41753	2	44.8	97.9	44	83.7	2.0	1	10.9	5.19	48.0	136	99.1	25	203	58	36
1405	Casselton, ND	2ND41762	2	43.8	95.4	50	83.4	1.7	1	11.1	4.40	40.6	120	88.7	110	177	54	54
1406	Casselton, ND	2ND41767	2	44.7	97.5	44	83.4	1.9	1	11.2	4.89	46.1	125	103.8	24	206	68	36
1407	Casselton, ND	2ND41790	2	40.9	96.7	46	82.6	1.7	1	10.4	4.65	46.2	118	94.3	72	223	57	46
1408	Casselton, ND	2ND41801	2	42.2	95.8	47	81.8	1.5	1	10.9	4.45	43.2	110	77.2	122	201	52	49
1409	Casselton, ND	2ND41803	2	40.0	95.9	48	83.3	1.6	1	10.7	4.52	42.8	123	100.9	173	197	51	39
1410	Casselton, ND	2ND41804	2	42.4	94.7	49	81.7	1.5	1	10.7	4.18	41.3	110	78.5	286	162	46	55
1411	Casselton, ND	2ND41810	2	42.5	96.2	46	81.8	1.4	1	11.3	4.21	38.5	112	78.5	258	165	46	53
1412	Casselton, ND	CONRAD MALT CHECK	2	40.6	96.8	88	84.6	1.7	1	11.1	5.10	50.1	136	111.0	115	228	60	31
1413	Casselton, ND	2ND41826	2	42.8	97.1	48	82.7	1.4	1	10.9	4.63	44.3	118	87.7	206	202	49	38
1414	Casselton, ND	2ND41827	2	43.8	97.0	42	81.1	1.5	1	11.2	4.33	41.1	124	79.8	75	177	61	50
1415	Casselton, ND	2ND41831	2	43.7	96.7	44	81.0	1.4	1	10.4	4.13	41.3	138	75.7	58	151	53	55
1416	Casselton, ND	2ND41837	2	44.5	97.8	46	84.0	2.1	1	11.6	5.09	47.1	146	100.9	15	247	65	31
1417	Casselton, ND	2ND41839	2	44.5	96.8	45	83.8	1.8	1	11.2	4.75	45.5	104	80.9	157	207	54	36
1418	Casselton, ND	2ND41857	2	41.7	95.0	49	83.6	2.1	1	10.5	4.84	47.9	82	96.9	92	229	52	35
1419	Casselton, ND	2ND41863	2	43.1	96.1	46	83.6	1.9	1	11.1	4.84	46.9	100	94.7	123	212	59	35
1420	Casselton, ND	2ND41873	2	44.0	95.4	46	85.2	2.2	1	10.7	4.86	48.6	111	94.0	12	235	57	43
1421	Casselton, ND	2ND41874	2	42.7	96.7	48	81.2	1.7	1	11.6	4.48	41.1	106	93.5	134	201	57	41
1422	Casselton, ND	2ND41887	2	48.5	97.5	43	83.7	2.0	1	10.6	4.71	46.5	112	89.1	83	217	58	43
1423	Casselton, ND	2ND41895	2	37.0	91.5	48	81.7	1.4	1	10.9	4.14	40.1	102	71.2	382	160	41	53
1424	Casselton, ND	2ND41898	2	46.0	97.8	45	82.6	1.5	1	11.0	4.33	42.3	111	85.8	195	173	51	55
1425	Casselton, ND	2ND41900	2	41.9	95.9	48	82.5	1.2	1	11.2	4.27	38.3	105	65.0	293	177	45	55
1426	Casselton, ND	2ND41908	2	39.6	96.0	51	84.3	1.2	1	10.4	4.18	43.9	112	67.8	260	166	43	58
1427	Casselton, ND	2ND41909	2	42.4	97.5	48	84.4	2.2	1	10.3	4.91	49.6	132	84.6	28	226	60	41
1428	Casselton, ND	2ND41917	2	44.2	98.4	45	82.3	1.6	1	10.9	4.48	43.2	119	91.0	71	204	56	49
1429	Casselton, ND	2ND41918	2	43.3	94.9	49	82.0	1.8	1	10.5	4.68	47.3	102	96.6	100	186	51	49
1430	Casselton, ND	2ND41920	2	42.6	97.6	49	84.3	1.4	1	10.7	4.49	45.7	108	88.4	344	182	49	46
1431	Casselton, ND	2ND41922	2	41.8	98.4	46	84.7	1.5	1	10.6	4.72	46.5	135	106.4	56	194	58	38
1432	Casselton, ND	2ND41929	2	44.2	98.3	47	82.8	1.5	1	11.9	4.92	44.5	129	107.3	272	202	61	27
1433	Casselton, ND	2ND41933	2	43.0	95.6	47	81.8	1.5	1	10.7	4.66	43.8	117	77.6	114	173	49	48
1434	Casselton, ND	2ND41936	2	51.3	98.8	46	82.4	2.0	1	12.2	5.39	46.1	119	82.1	46	228	67	34
1435	Casselton, ND	2ND41943	2	43.8	94.6	49	85.2	2.6	1	10.9	5.55	52.3	116	105.3	19	262	57	39
1436	Casselton, ND	2ND41963	2	40.0	94.7	41	81.9	1.7	1	10.8	4.34	42.1	99	74.1	114	164	42	54
1437	Casselton, ND	2ND41964	2	39.6	97.0	43	82.4	1.9	1	10.2	4.77	48.6	92	84.2	186	202	37	31
1438	Casselton, ND	2ND41965	2	40.4	96.2	44	83.0	1.6	1	10.7	4.78	48.0	73	84.4	296	182	39	31
1439	Casselton, ND	2ND41975	2	40.5	94.0	48	81.3	1.5	1	11.0	4.84	46.2	106	95.8	301	191	57	33
1440	Casselton, ND	2ND41976	2	43.1	96.9	49	83.8	1.7	1	11.1	5.13	49.1	124	104.1	201	216	58	29
1441	Casselton, ND	2ND41981	2	45.1	97.3	48	84.1	1.5	1	10.8	4.86	46.7	140	93.9	53	200	63	39
1442	Casselton, ND	2ND41982	2	46.2	98.5	45	82.4	1.8	1	10.5	4.93	49.3	121	95.9	28	202	58	41
1443	Casselton, ND	CONRAD MALT CHECK	2	40.0	97.8	87	84.3	1.6	1	10.8	5.50	51.0	137	106.4	161	238	50	26
1444	Casselton, ND	2ND41988	2	43.7	98.2	46	82.7	1.7	1	11.3	5.36	49.9	151	109.6	49	222	65	36
1445	Casselton, ND	2ND41995	2	46.9	98.6	46	82.7	1.7	1	11.1	5.28	48.6	151	108.9	18	222	65	36
1446	Casselton, ND	2ND42000	2	43.2	98.4	48	82.7	2.0	1	10.2	5.25	53.0	119	108.9	27	227	57	44
1447	Casselton, ND	2ND42012	2	47.6	98.8	47	81.8	2.8	1	11.3	5.45	51.4	131	107.3	260	256	58	29
1448	Casselton, ND	2ND42016	2	46.0	98.8	48	81.7	1.8	1	13.1	5.26	40.3	156	102.8	164	242	58	29
1449	Casselton, ND	2ND42021	2	45.1	98.8	48	82.8	2.0	1	11.6	4.45	40.2	159	88.0	441	176	54	43
1450	Casselton, ND	CONLON	2	43.4	98.4	51	81.0	1.6	1	12.8	4.91	39.3	157	97.3	406	188	56	27
1451	Casselton, ND	PINNACLE	2	41.0	96.6	42	81.6	1.9	1	10.5	4.60	47.4	110	83.8	455	181	43	41
1452	Casselton, ND	ND GENESIS	2	42.5	97.6	47	81.6	1.7	1	10.8	4.49	43.2	121	92.2	377	175	49	46
1453	Casselton, ND	AAC SYNERGY	2	44.1	97.4	50	82.2	2.5	1	12.7	5.70	46.7	158	115.3	77	254	66	31
1454	Casselton, ND	2ND32529	2	42.6	98.1	49	82.9	2.0	1	10.6	4.93	49.1	109	110.9	78	219	57	43

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Lab No.	Location	Variety or Selection	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agron)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (*ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)	Adjunct Quality Score	All Malt Quality Score
1455	Casselton, ND	2ND42029	2	41.6	96.9	51	82.4	2.4	2	10.8	4.28	42.0	112	77.1	403	156	44	53
1456	Casselton, ND	2ND42041	2	46.0	99.0	48	82.6	1.7	1	11.3	4.75	43.7	139	90.6	349	197	57	35
1457	Casselton, ND	2ND42042	2	40.9	97.4	48	82.9	1.9	1	10.9	4.61	46.3	121	85.4	378	190	51	34
1458	Casselton, ND	2ND42043	2	42.6	97.4	51	83.1	1.5	1	10.7	4.73	46.0	148	78.3	257	187	52	32
1459	Casselton, ND	2ND42050	2	41.1	96.1	52	83.1	2.3	2	10.8	4.35	42.4	108	75.3	433	156	44	53
1460	Casselton, ND	2ND42053	2	42.2	97.6	47	83.0	1.4	1	11.5	4.90	45.7	163	74.0	297	197	61	35
1461	Casselton, ND	2ND42058	2	42.0	97.7	47	81.9	1.4	1	10.9	4.63	43.1	149	81.0	281	177	49	42
1462	Casselton, ND	2ND42059	2	41.4	97.4	51	82.4	1.3	1	10.5	4.64	44.9	171	95.1	277	192	51	37
1463	Casselton, ND	2ND42067	2	46.2	98.8	46	83.2	1.3	1	10.8	4.75	44.8	121	85.6	247	195	52	35
1464	Casselton, ND	2ND42076	2	43.0	97.9	48	81.9	1.8	1	10.7	4.97	46.6	111	82.8	235	212	55	36
1465	Casselton, ND	2ND42080	2	48.6	98.0	47	84.9	1.7	1	11.2	5.03	46.5	140	95.3	103	207	64	32
1466	Casselton, ND	2ND42085	2	45.0	97.7	48	84.5	1.3	1	10.6	4.51	43.8	122	71.8	204	183	52	41
1467	Casselton, ND	2ND42092	2	46.8	97.6	47	86.1	1.8	1	11.5	5.01	45.4	145	72.1	76	196	68	37
1468	Casselton, ND	2ND42105	2	46.1	98.9	48	84.6	1.9	1	11.0	5.14	50.1	137	103.5	46	225	65	36
1469	Casselton, ND	2ND42106	2	44.4	98.0	50	85.6	2.0	1	10.0	5.16	53.1	133	102.3	32	222	60	41
1470	Casselton, ND	2ND42109	2	47.8	98.2	44	83.3	1.7	1	11.4	4.81	45.2	132	76.1	265	193	61	32
1471	Casselton, ND	2ND42110	2	45.0	98.6	45	83.9	1.7	1	11.4	4.84	45.9	144	72.0	114	186	64	38
1472	Casselton, ND	2ND42111	2	47.1	97.9	49	84.3	1.7	1	10.4	4.64	48.2	100	70.3	404	198	40	46
1473	Casselton, ND	2ND42112	2	48.1	98.2	49	82.6	1.9	1	10.7	4.58	43.3	111	73.5	396	179	46	52
1474	Casselton, ND	CONRAD MALT CHECK	2	40.3	97.6	88	84.3	1.7	1	11.5	5.33	49.1	167	105.7	97	241	64	35
1475	Casselton, ND	2ND42125	2	41.8	97.2	44	83.7	2.0	1	11.3	5.16	49.5	187	92.2	121	203	58	31
1476	Casselton, ND	2ND42126	2	45.5	99.1	44	83.0	2.4	1	12.1	5.40	48.2	181	91.2	94	236	65	31
1477	Casselton, ND	2ND42127	2	44.6	98.5	47	85.0	2.0	1	11.5	5.19	48.3	168	109.3	71	206	63	31
1478	Casselton, ND	2ND42128	2	46.2	99.1	50	85.2	2.4	1	11.7	5.55	47.9	170	114.4	54	230	65	31
1479	Casselton, ND	2ND42131	2	41.3	96.1	46	83.4	1.5	1	10.4	4.44	45.2	120	71.5	357	170	48	50
1480	Casselton, ND	2ND42140	2	48.9	98.9	45	84.9	2.0	1	11.9	5.19	47.3	127	105.0	112	214	61	27
1481	Casselton, ND	2ND42143	2	44.1	95.2	42	84.4	2.5	1	9.4	5.01	55.4	112	97.4	29	220	57	43
1482	Casselton, ND	2ND42146	2	40.3	94.5	44	81.3	1.8	1	10.9	4.44	43.7	101	78.5	273	178	45	47
1483	Casselton, ND	2ND42150	2	39.5	97.3	49	81.0	2.0	1	14.5	5.70	39.3	192	97.5	26	231	48	28
1484	Casselton, ND	2ND42152	2	44.4	95.7	45	83.3	2.3	1	11.2	5.06	46.9	105	91.5	192	206	58	36
1485	Casselton, ND	2ND42174	2	46.5	98.4	44	83.9	1.6	1	11.7	4.80	45.0	129	84.9	91	196	68	37
1486	Casselton, ND	2ND42185	2	43.6	98.5	44	83.4	1.7	1	11.2	4.75	44.8	132	101.2	101	190	60	38
1487	Casselton, ND	2ND42205	2	41.1	94.8	50	83.6	2.0	1	11.2	4.82	47.0	124	91.8	120	202	63	31
1488	Casselton, ND	2ND42246	2	46.0	98.9	45	84.1	1.8	1	10.6	4.80	46.1	114	85.4	100	202	56	43
1489	Casselton, ND	2ND42258	2	44.8	99.1	47	85.2	2.3	1	10.9	5.17	49.4	117	84.4	107	219	53	35
1490	Casselton, ND	2ND42266	2	44.7	98.1	45	85.0	3.1	1	10.6	5.66	58.4	100	117.5	12	285	49	39
1491	Casselton, ND	2ND42272	2	43.4	98.9	49	84.7	2.7	1	9.9	5.08	54.3	104	113.3	14	224	57	48
1492	Casselton, ND	2ND42289	2	40.5	97.7	49	82.6	1.7	1	10.8	4.46	42.8	109	86.6	231	179	45	54
1493	Casselton, ND	2ND42299	2	46.1	98.7	49	84.7	2.2	1	11.3	5.08	47.8	133	93.1	142	217	61	32
1494	Casselton, ND	2ND42310	2	45.9	96.3	47	83.6	2.9	1	11.1	5.39	50.5	107	95.6	20	244	62	43
1495	Casselton, ND	2ND42313	2	46.6	98.1	45	83.5	2.0	1	10.6	5.08	51.3	120	81.1	56	179	52	46
1496	Casselton, ND	2ND42327	2	45.3	97.2	46	83.8	2.1	1	10.7	5.12	48.3	113	88.6	210	194	48	39
1497	Casselton, ND	2ND42402	2	47.0	98.0	46	82.8	2.1	1	11.1	5.31	51.0	127	109.9	121	202	59	32
1498	Casselton, ND	2ND42403	2	46.6	97.9	42	82.4	1.9	1	11.2	4.88	45.1	122	97.6	239	178	58	36
1499	Casselton, ND	2ND42408	2	46.5	98.2	46	83.0	2.1	1	11.5	4.96	45.9	109	95.4	181	174	55	43
1500	Casselton, ND	2ND42416	2	47.6	99.0	46	84.0	2.1	1	10.6	5.38	53.0	112	98.0	86	201	55	43
1501	Casselton, ND	CONLON	2	44.4	98.5	52	80.6	2.0	1	13.0	5.32	43.7	130	90.8	377	194	53	25
1502	Casselton, ND	PINNACLE	2	41.5	96.9	43	82.2	2.2	1	10.3	4.86	50.1	91	77.4	385	169	40	40
1503	Casselton, ND	ND GENESIS	2	42.7	97.2	47	81.8	1.9	1	10.1	4.88	52.5	106	89.5	366	164	45	48
1504	Casselton, ND	AAC SYNERGY	2	43.8	97.3	46	82.8	2.8	1	13.1	6.14	48.7	124	114.6	115	259	49	27
1505	Casselton, ND	CONRAD MALT CHECK	2	39.8	97.4	88	84.2	1.9	1	11.0	5.65	52.3	124	107.7	87	236	53	33
1506	Casselton, ND	2ND32529	2	43.1	98.1	50	83.2	2.6	1	9.8	5.50	59.7	91	104.8	74	222	53	41
1507	Casselton, ND	2ND42431	2	46.3	97.8	44	83.4	2.2	1	11.7	5.23	48.6	104	83.6	149	187	56	37
1508	Casselton, ND	2ND42445	2	47.6	98.2	45	83.2	1.7	1	11.1	4.98	47.5	109	76.5	91	173	57	50
1509	Casselton, ND	2ND42451	2	43.4	96.6	44	82.4	1.6	1	11.1	4.87	47.6	116	86.8	79	160	57	46
1510	Casselton, ND	2ND42456	2	47.1	98.7	45	83.2	2.6	1	12.1	5.97	53.2	116	103.1	53	237	58	34
1511	Casselton, ND	2ND42478	2	44.4	97.8	47	84.7	1.9	1	11.2	5.50	53.7	124	90.7	117	203	59	32
1512	Casselton, ND	2ND42487	2	46.6	98.8	43	84.0	2.1	1	10.5	5.20	51.1	111	90.6	280	198	48	44
1513	Casselton, ND	2ND42504	2	46.0	97.9	49	83.9	1.9	1	11.7	5.62	52.4	129	94.2	298	213	54	24
1514	Casselton, ND	2ND42507	2	44.5	98.2	46	82.4	1.9	1	11.4	5.20	47.9	117	92.4	134	192	56	38
1515	Casselton, ND	2ND42514	2	47.7	98.4	49	85.2	2.2	1	11.4	5.19	49.8	84	79.1	326	188	49	32
1516	Casselton, ND	2ND42538	2	44.7	97.2	47	81.7	1.9	1	10.3	4.56	47.8	75	77.7	309	147	37	40
1517	Casselton, ND	CONLON	2	44.6	98.4	50	81.3	2.1	1	12.7	5.39	44.6	126	87.4	391	194	61	25
1518	Casselton, ND	PINNACLE	2	41.3	96.5	43	82.7	2.1	1	11.1	4.85	46.9	85	75.0	395	166	50	35
1519	Casselton, ND	ND GENESIS	2	42.7	97.6	47	81.8	2.1	1	9.0	4.91	54.8	105	91.5	181	193	48	39
1520	Casselton, ND	AAC SYNERGY	2	44.0	97.3	50	83.3	2.8	1	11.6	6.02	54.5	125	113.2	54	272	58	31

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Lab No.	Location	Variety or Selection	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agron)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (*ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)	Adjunct Quality Score	All Malt Quality Score
1521	Casselton, ND	2ND32529	2	43.4	97.9	50	83.8	2.0	1	9.9	4.94	52.8	100	106.1	81	198	51	47
1522	Casselton, ND	2ND41743	2	48.6	98.2	44	84.9	1.8	1	11.0	4.99	49.6	120	87.9	44	200	55	42
1523	Casselton, ND	2ND41765	2	42.7	96.7	52	81.8	1.3	1	11.9	4.52	38.9	134	68.4	187	174	49	40
1524	Casselton, ND	2ND41796	2	43.0	96.2	46	83.1	2.1	1	11.1	5.11	50.1	136	101.5	24	235	65	36
1525	Casselton, ND	2ND41799	2	44.2	98.3	47	83.3	1.5	1	10.8	4.56	46.1	102	81.1	233	168	46	46
1526	Casselton, ND	2ND41843	2	46.5	96.7	50	81.5	1.9	1	12.1	5.08	45.7	114	84.7	164	210	60	31
1527	Casselton, ND	2ND41852	2	44.9	98.8	47	85.4	2.3	1	9.2	5.15	57.5	97	105.9	38	231	53	39
1528	Casselton, ND	2ND41854	2	41.6	97.9	47	82.8	1.6	1	10.8	4.66	45.9	102	86.7	254	184	48	41
1529	Casselton, ND	2ND41856	2	43.9	97.9	45	84.5	1.6	1	11.7	4.88	45.7	106	84.2	334	188	58	34
1530	Casselton, ND	2ND41861	2	44.8	97.7	45	83.5	2.0	1	10.4	5.10	51.0	111	83.8	31	216	57	48
1531	Casselton, ND	2ND41865	2	44.4	97.6	46	83.7	1.7	1	10.8	4.81	48.8	135	93.5	46	179	55	43
1532	Casselton, ND	2ND41870	2	39.5	95.9	48	83.7	1.8	1	10.6	4.86	48.6	103	96.3	208	202	45	33
1533	Casselton, ND	2ND41902	2	48.5	99.3	48	83.9	2.2	1	10.1	5.01	54.3	104	90.9	44	230	57	48
1534	Casselton, ND	2ND41905	2	44.3	97.7	47	82.0	1.5	1	11.0	4.24	42.3	101	79.5	271	152	51	55
1535	Casselton, ND	2ND41915	2	41.5	98.0	50	83.6	2.1	1	9.5	4.94	53.5	108	107.9	31	222	56	42
1536		CONRAD MALT CHECK	2	40.7	98.2	89	85.9	2.0	2	10.9	5.35	52.4	133	106.6	89	226	58	34
1537	Casselton, ND	2ND41925	2	41.5	97.1	48	82.5	1.5	1	10.5	4.63	46.5	118	83.5	192	200	48	34
1538	Casselton, ND	2ND42022	2	43.7	98.3	51	84.7	2.1	2	10.4	4.45	45.9	138	87.3	322	157	48	47
1539	Casselton, ND	2ND42062	2	47.2	97.5	50	84.9	1.9	1	9.9	4.93	53.1	99	95.6	170	197	44	40
1540	Casselton, ND	2ND42070	2	44.5	99.1	46	83.7	1.9	1	10.3	5.12	52.3	124	100.4	34	224	60	41
1541	Casselton, ND	2ND42078	2	50.5	98.0	44	84.0	1.8	1	10.6	5.10	50.8	126	87.8	37	205	58	36
1542	Casselton, ND	2ND42084	2	47.4	98.9	47	84.7	1.6	1	10.5	4.87	47.8	126	102.5	49	190	58	39
1543	Casselton, ND	2ND42086	2	49.4	99.1	44	83.7	1.6	1	11.0	4.74	44.8	114	94.1	178	190	54	42
1544	Casselton, ND	2ND42091	2	45.1	97.0	46	83.0	1.5	1	11.0	4.38	40.0	116	94.0	160	160	46	51
1545	Casselton, ND	2ND42097	2	46.6	98.5	46	83.4	1.9	1	10.3	4.88	49.4	134	102.9	88	203	58	41
1546	Casselton, ND	2ND42102	2	44.0	98.3	48	83.9	1.5	1	10.3	4.58	47.1	134	80.2	194	178	44	44
1547	Casselton, ND	2ND42107	2	43.9	98.0	49	83.7	1.5	1	10.7	4.36	44.2	143	77.8	294	157	49	46
1548	Casselton, ND	2ND42108	2	44.8	98.7	44	83.3	1.8	1	10.5	4.64	46.1	156	97.6	106	179	52	42
1549	Casselton, ND	2ND42122	2	45.7	98.9	49	84.6	1.9	1	11.4	4.94	43.7	163	111.5	47	210	68	39
1550	Casselton, ND	2ND42124	2	43.0	98.4	46	84.9	1.8	1	10.7	4.98	49.2	137	98.0	97	205	58	36
1551	Casselton, ND	2ND42137	2	46.3	98.7	48	85.0	2.0	1	11.3	5.17	48.9	135	120.9	39	229	65	36
1552	Casselton, ND	2ND42161	2	46.9	99.2	45	84.0	1.8	1	12.3	5.06	44.0	162	103.6	19	209	68	34
1553	Casselton, ND	2ND42171	2	44.1	98.8	42	83.6	1.6	1	11.1	4.81	47.3	134	95.7	68	204	63	36
1554	Casselton, ND	2ND42173	2	45.0	98.7	43	83.4	1.5	1	10.9	4.66	45.4	143	106.5	27	176	56	46
1555	Casselton, ND	2ND42177	2	49.9	99.2	44	83.6	1.7	1	11.6	4.98	45.9	143	101.0	18	206	68	31
1556	Casselton, ND	2ND42181	2	46.3	98.3	43	83.9	1.7	1	11.4	4.82	45.0	130	99.9	74	191	68	42
1557	Casselton, ND	2ND42187	2	48.1	99.1	40	82.8	1.5	1	11.5	4.89	42.9	135	81.8	83	190	68	44
1558	Casselton, ND	2ND42206	2	41.1	93.8	48	85.0	1.6	1	10.1	4.73	50.6	98	89.4	176	205	39	36
1559	Casselton, ND	2ND42209	2	43.2	97.0	50	86.1	1.9	1	10.5	5.03	50.7	104	93.6	70	218	57	48
1560	Casselton, ND	2ND42247	2	46.1	98.4	44	85.2	1.6	1	11.2	4.69	42.9	117	84.6	49	175	58	54
1561	Casselton, ND	2ND42252	2	45.4	97.4	49	84.3	1.6	1	11.5	4.93	46.8	120	82.7	208	197	58	35
1562	Casselton, ND	2ND42265	2	48.0	99.3	43	85.3	2.2	1	11.1	5.41	50.7	109	100.0	20	238	62	43
1563	Casselton, ND	2ND42268	2	40.8	95.7	49	83.7	1.9	1	10.9	4.97	46.4	121	102.6	144	205	58	31
1564	Casselton, ND	2ND42273	2	46.8	98.4	44	83.6	1.4	1	11.8	4.76	41.3	120	81.9	136	174	54	42
1565	Casselton, ND	2ND42276	2	45.9	97.6	48	83.0	1.7	1	11.7	5.13	47.6	131	80.1	30	206	63	31
1566	Casselton, ND	2ND42285	2	47.9	99.0	48	82.6	1.6	1	11.3	4.76	42.6	98	86.8	104	195	53	43
1567		CONRAD MALT CHECK	2	40.1	97.9	88	85.0	1.7	1	11.7	5.39	48.9	123	111.3	106	253	60	26
1568	Casselton, ND	2ND42292	2	46.4	99.4	46	83.2	1.9	1	11.8	5.23	47.3	125	84.7	27	237	65	31
1569	Casselton, ND	CONLON	2	44.4	97.8	51	82.2	1.5	1	12.6	5.10	41.7	146	99.1	424	208	61	29
1570	Casselton, ND	PINNACLE	2	41.9	96.7	45	82.8	1.9	1	11.0	4.62	44.1	91	79.7	517	190	49	37
1571	Casselton, ND	ND GENESIS	2	42.7	97.4	46	81.6	1.5	1	10.4	4.41	43.9	103	83.5	513	165	46	58
1572	Casselton, ND	AAC SYNERGY	2	44.0	97.2	48	82.3	2.0	1	12.3	5.56	46.1	124	101.9	233	250	63	24
1573	Casselton, ND	2ND32529	2	43.3	97.8	49	84.0	1.8	1	11.3	4.80	43.4	89	96.0	157	204	54	32
1574	Casselton, ND	2ND42293	2	45.6	97.8	49	82.4	1.5	1	11.8	4.58	42.3	106	78.2	185	179	51	46
1575	Casselton, ND	2ND42301	2	45.2	98.7	49	83.2	1.9	1	11.1	4.99	47.9	104	77.1	69	211	62	43
1576	Casselton, ND	2ND42311	2	48.6	97.9	48	83.7	2.1	1	11.7	5.26	47.7	124	79.2	121	245	61	27
1577	Casselton, ND	2ND42326	2	48.3	97.8	47	84.5	2.2	1	10.8	5.09	49.0	100	85.8	33	238	53	39
1578	Casselton, ND	2ND42368	2	47.7	99.5	50	83.3	1.9	1	11.0	4.97	47.3	101	69.2	33	196	60	49
1579	Casselton, ND	2ND42390	2	43.6	98.3	44	83.6	1.9	1	11.4	4.89	44.6	109	84.0	137	217	63	42
1580	Casselton, ND	2ND42392	2	42.6	98.1	46	85.7	2.1	1	10.5	4.91	50.5	82	90.3	63	229	53	41
1581	Casselton, ND	2ND42394	2	46.0	98.8	48	83.2	1.4	1	13.0	5.39	44.4	146	91.8	140	245	61	30
1582	Casselton, ND	2ND42396	2	44.7	99.2	42	81.3	1.8	1	12.8	5.10	42.6	135	78.6	87	213	70	31
1583	Casselton, ND	2ND42401	2	45.4	98.7	46	84.9	1.5	1	11.1	4.83	45.6	115	81.2	329	190	58	35
1584	Casselton, ND	2ND42413	2	46.3	98.4	42	84.7	1.3	1	11.4	4.75	44.2	132	94.2	160	198	57	35
1585	Casselton, ND	2ND42418	2	48.3	98.8	47	84.0	1.7	1	11.7	5.23	45.2	128	106.2	80	232	70	31
1586	Casselton, ND	2ND42419	2	46.3	98.5	43	83.0	1.8	1	11.5	5.02	45.7	121	102.4	280	220	63	29

2022 Crop Year Breeders' Submissions

Lab No.	Location	Variety or Selection	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agrton)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (*ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)	Adjunct Quality Score	All Malt Quality Score
1587	Casselton, ND	2ND42420	2	46.7	98.9	44	83.0	1.9	1	11.4	4.93	45.4	119	96.3	243	216	60	32
1588	Casselton, ND	2ND42422	2	45.6	98.6	46	83.1	1.6	1	10.6	4.49	43.2	100	96.2	141	175	45	52
1589	Casselton, ND	2ND42424	2	45.8	96.8	41	82.6	1.7	1	11.3	4.67	41.9	138	96.2	81	176	61	51
1590	Casselton, ND	2ND42434	2	47.3	98.3	41	83.4	1.5	1	11.1	4.48	42.6	113	91.5	324	187	54	51
1591	Casselton, ND	2ND42435	2	46.1	97.8	46	82.2	1.5	1	12.0	4.75	41.3	141	98.2	133	200	60	32
1592	Casselton, ND	2ND42437	2	47.5	99.1	46	83.2	1.7	1	11.6	4.94	42.7	95	84.7	312	209	54	29
1593	Casselton, ND	2ND42442	2	44.5	98.7	43	81.9	1.6	1	12.2	4.65	39.3	95	74.3	391	184	45	38
1594	Casselton, ND	2ND42446	2	45.6	96.8	48	83.1	1.4	1	11.1	4.28	39.5	98	68.6	255	162	42	54
1595	Casselton, ND	2ND42449	2	49.8	98.7	45	83.0	1.7	1	11.9	4.75	42.4	122	88.1	72	192	64	39
1596	Casselton, ND	2ND42450	2	48.9	98.9	44	82.2	1.7	1	11.7	4.67	41.5	117	93.9	90	191	61	45
1597	Casselton, ND	2ND42452	2	46.7	97.8	42	82.4	1.4	1	12.2	4.51	37.7	139	97.2	109	171	52	40
1598	Casselton, ND	CONRAD MALT CHECK	2	40.0	98.0	88	83.6	1.8	1	12.4	5.10	43.3	132	107.6	104	246	63	27
1599	Casselton, ND	2ND42460	2	45.8	95.9	45	82.4	1.6	1	11.1	4.40	39.7	115	90.1	114	175	49	58
1600	Casselton, ND	2ND42464	2	48.0	99.4	46	83.4	1.6	1	11.7	4.68	40.1	107	78.2	108	185	57	45
1601	Casselton, ND	2ND42467	2	48.3	99.4	45	83.1	1.8	1	12.0	5.01	43.2	118	77.4	121	208	61	33
1602	Casselton, ND	2ND42472	2	46.1	98.7	43	82.2	2.0	1	12.2	5.03	44.1	103	84.0	297	213	60	34
1603	Casselton, ND	2ND42475	2	45.9	97.8	42	82.2	1.8	1	12.1	4.86	42.1	110	91.6	143	200	61	39
1604	Casselton, ND	2ND42486	2	46.8	98.8	47	84.0	1.8	1	11.3	4.50	42.8	112	88.3	140	178	54	58
1605	Casselton, ND	2ND42493	2	46.0	99.4	46	82.8	1.6	1	12.9	4.62	38.6	118	72.0	265	179	46	43
1606	Casselton, ND	2ND42499	2	46.8	98.2	46	83.3	1.7	1	11.0	4.54	41.9	100	87.8	277	179	46	51
1607	Casselton, ND	2ND42503	2	43.6	98.2	48	82.5	1.4	1	10.4	4.36	45.0	108	86.9	247	177	46	55
1608	Casselton, ND	2ND42506	2	44.6	97.0	49	84.7	2.4	1	10.4	5.11	49.3	106	128.3	31	236	57	48
1609	Casselton, ND	2ND42513	2	43.6	96.5	51	83.7	2.2	1	11.1	5.11	49.1	111	137.3	18	233	62	43
1610	Casselton, ND	2ND42526	2	45.3	98.0	47	81.5	2.1	1	12.4	5.11	43.6	120	93.9	15	221	67	37
1611	Casselton, ND	2ND42536	2	42.3	96.8	49	81.5	1.9	1	12.9	4.99	40.4	114	91.8	17	204	65	43
1612	Casselton, ND	2ND41824	2	40.9	97.0	49	82.6	1.4	1	11.4	4.86	43.4	104	95.3	198	171	54	45
1613	Casselton, ND	2ND42211	2	41.3	94.1	45	81.7	1.5	1	11.3	4.75	43.5	98	86.9	131	178	49	44
1614	Casselton, ND	2ND42254	2	40.6	95.2	46	82.9	n.d.	3	11.1	4.56	42.4	95	80.8	282	166	44	41
1615	Casselton, ND	2ND42494	2	48.6	98.7	45	83.2	1.6	1	11.1	4.77	43.3	106	87.4	168	158	51	46
1616	Casselton, ND	2ND42496	2	47.3	98.8	47	82.7	1.8	1	11.6	5.05	45.9	119	80.0	163	177	55	34
1617	Casselton, ND	2ND42542	2	43.9	98.5	43	82.0	2.2	2	9.9	4.74	48.5	79	90.0	173	166	36	40
1618	Corvallis, OR	Endeavor-COR	2	32.8	82.5	51	81.3	1.9	1	11.3	5.37	48.5	171	112.4	239	215	48	14
1619	Corvallis, OR	Wintmalt-COR	2	39.6	93.0	48	79.5	2.0	1	13.4	4.94	38.0	166	73.9	155	170	42	24
1620	Corvallis, OR	Thunder-COR	2	37.3	94.6	47	81.7	2.3	1	12.9	5.96	48.5	182	120.8	120	268	52	22
1621	Corvallis, OR	Lightning-COR	2	45.5	95.9	52	81.3	1.6	1	11.6	4.99	46.9	166	52.2	109	188	64	23
1622	Corvallis, OR	DH141222-COR	2	44.8	97.7	42	81.9	2.4	2	12.4	5.22	44.9	211	58.6	43	193	67	34
1623	Corvallis, OR	DH141364-COR	2	46.4	98.5	43	80.8	2.1	2	12.1	5.25	43.5	190	54.3	54	206	64	26
1624	Corvallis, OR	DH141077-COR	2	41.6	96.6	48	82.1	1.9	1	10.9	5.13	49.5	172	68.2	90	209	57	38
1625	Corvallis, OR	DH141225-COR	2	42.2	93.6	45	82.7	2.2	1	10.8	5.02	48.2	180	62.3	88	198	58	37
1626	Corvallis, OR	DH141947-COR	2	39.2	97.0	49	81.1	1.7	1	11.0	4.52	43.9	139	55.4	197	158	51	32
1627	Corvallis, OR	DH141917-COR	2	45.0	97.0	46	81.5	2.2	2	12.0	5.22	44.2	156	53.4	171	187	60	27
1628	Corvallis, OR	DH141944-COR	2	42.4	93.5	49	80.1	1.7	1	11.8	4.67	43.1	149	49.5	288	166	48	30
1629	Corvallis, OR	CONRAD MALT CHECK	2	40.7	97.6	88	84.1	1.4	1	12.5	5.35	45.5	135	107.4	266	212	62	23
1630	Corvallis, OR	DH150120-COR	2	46.1	99.0	51	81.9	2.0	2	11.1	4.96	46.1	175	52.6	321	177	57	33
1631	Corvallis, OR	DH150683-COR	2	45.6	98.3	49	82.1	2.8	1	10.6	4.88	46.2	179	80.9	114	237	61	32
1632	Corvallis, OR	DH162303-COR	2	42.5	94.8	47	81.3	2.9	1	10.1	4.76	50.3	136	81.5	87	242	56	36
1633	Corvallis, OR	DH162310-COR	2	46.5	98.2	40	82.5	3.2	1	12.5	5.28	45.0	199	105.3	113	269	66	30
1634	Corvallis, OR	DH170472-COR	2	41.4	97.5	50	80.9	2.7	1	12.7	4.80	40.4	169	84.9	289	222	55	23
1635	Corvallis, OR	DH171677-COR	2	41.9	96.7	46	80.1	2.5	1	11.8	4.30	38.6	163	51.3	139	171	48	36
1636	Corvallis, OR	DH171854-COR	2	47.0	96.4	49	82.7	2.3	1	10.5	4.18	41.1	145	49.0	214	172	46	51
1637	Corvallis, OR	DH180281-COR	2	40.7	98.1	44	80.2	2.3	1	11.7	4.10	38.1	163	42.7	240	138	42	25
1638	Corvallis, OR	DH180800-COR	2	44.9	99.2	43	81.4	4.3	1	13.9	6.00	43.5	164	71.0	150	284	49	25
1639	Corvallis, OR	DH190053-COR	2	42.5	97.2	44	79.7	2.6	1	13.1	5.22	43.2	201	70.9	75	231	62	30
1640	Corvallis, OR	DH190056-COR	2	42.4	96.0	41	81.5	2.8	1	11.8	5.09	45.6	180	110.1	178	240	63	19
1641	Corvallis, OR	DH190074-COR	2	43.0	96.2	51	82.2	2.9	1	11.1	5.57	52.3	205	98.5	42	294	65	36
1642	Corvallis, OR	DH190077-COR	2	42.3	98.7	56	82.6	2.9	1	11.5	5.45	50.5	183	99.7	32	279	65	36
1643	Corvallis, OR	DH190100-COR	2	43.9	97.9	40	82.3	3.8	2	10.5	4.47	44.0	157	57.7	255	178	48	48
1644	Corvallis, OR	DH190103-COR	2	42.0	98.7	42	82.4	3.9	2	11.3	4.71	43.8	143	56.8	278	206	55	28
1645	Corvallis, OR	DH190104-COR	2	43.9	97.9	45	81.9	3.6	2	10.8	4.66	45.5	146	50.0	177	184	48	32
1646	Corvallis, OR	DH190105-COR	2	41.4	98.7	42	81.1	3.1	2	11.5	4.46	39.7	161	52.4	277	161	47	39
1647	Corvallis, OR	DH190108-COR	2	42.0	98.2	43	80.4	2.3	1	11.4	4.36	40.1	145	45.5	395	153	48	41
1648	Corvallis, OR	DH190117-COR	2	44.8	96.9	51	81.5	1.6	1	10.6	4.87	47.8	187	56.9	41	183	58	37
1649	Corvallis, OR	DH190195-COR	2	45.2	98.1	45	81.5	1.8	1	11.7	4.50	41.9	157	48.4	147	168	54	35
1650	Corvallis, OR	DH190233-COR	2	41.5	95.6	56	82.1	2.0	1	12.3	5.89	48.9	245	86.5	20	274	60	30
1651	Corvallis, OR	DH190241-COR	2	42.1	98.1	42	80.8	2.1	1	12.8	5.29	44.8	180	67.6	107	229	63	28
1652	Lebanon, OR	Endeavor-LEB	2	36.6	94.5	50	82.4	1.8	1	8.9	4.55	53.8	139	90.1	114	179	42	37

2022 Crop Year Breeders' Submissions

Lab No.	Location	Variety or Selection	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agtron)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (*ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)	Adjunct Quality Score	All Malt Quality Score
1653	Lebanon, OR	Wintmalt-LEB	2	40.5	96.6	50	80.6	1.6	1	10.4	4.35	45.2	152	67.8	55	163	52	52
1654	Lebanon, OR	Thunder-LEB	2	36.8	97.6	46	82.3	2.2	1	10.3	4.99	49.8	161	114.2	23	223	55	36
1655	Lebanon, OR	Lightning-LEB	2	42.4	96.5	52	81.5	1.4	1	10.2	4.59	47.7	151	57.7	47	175	51	49
1656	Lebanon, OR	DH141222-LEB	2	40.3	96.0	39	81.8	2.0	1	9.9	4.55	47.2	181	65.2	30	165	50	53
1657	Lebanon, OR	DH141364-LEB	2	42.7	98.9	41	81.4	2.0	1	11.1	4.69	45.3	172	59.2	60	182	64	35
1658	Lebanon, OR	DH141077-LEB	2	39.7	96.7	47	82.0	1.8	1	10.2	4.60	49.1	171	70.7	43	186	51	47
1659	Lebanon, OR	DH141225-LEB	2	40.4	93.1	46	81.6	2.6	1	10.0	3.70	40.1	185	65.9	74	167	52	55
1660	Lebanon, OR	CONRAD MALT CHECK	2	40.2	97.7	88	84.2	2.5	1	11.7	4.35	39.1	121	109.6	176	240	53	35
1661	Lebanon, OR	DH141947-LEB	2	40.8	97.9	50	81.1	2.3	1	9.7	3.80	40.8	147	66.7	46	170	52	45
1662	Lebanon, OR	DH141917-LEB	2	43.7	98.4	45	81.8	2.5	1	11.3	4.11	39.4	164	63.1	48	203	59	46
1663	Lebanon, OR	DH141944-LEB	2	44.1	96.7	51	80.8	2.2	1	10.7	3.71	37.8	155	64.5	79	184	48	35
1664	Lebanon, OR	DH150120-LEB	2	43.6	97.9	48	81.4	2.5	1	11.7	4.18	38.8	187	53.5	168	197	52	30
1665	Lebanon, OR	DH150683-LEB	2	43.3	98.1	48	82.7	2.4	1	10.7	4.37	41.6	179	84.2	51	232	61	48
1666	Lebanon, OR	DH162303-LEB	2	38.5	91.5	42	81.5	2.9	1	9.7	4.13	46.2	127	89.2	33	217	58	35
1667	Lebanon, OR	DH162310-LEB	2	44.3	97.2	42	83.7	2.8	1	10.4	4.24	43.9	187	121.3	35	245	61	51
1668	Lebanon, OR	DH170472-LEB	2	40.8	97.6	47	82.3	2.6	1	9.8	4.17	44.6	165	105.6	27	222	60	45
1669	Lebanon, OR	DH171677-LEB	2	39.3	95.7	47	81.2	2.3	2	10.4	3.80	38.8	149	63.6	45	168	44	40
1670	Lebanon, OR	DH171854-LEB	2	43.6	95.5	48	83.1	2.3	2	9.6	3.68	42.4	135	56.3	80	171	52	45
1671	Lebanon, OR	DH180281-LEB	2	41.2	96.6	43	80.9	2.2	1	10.5	3.52	37.0	161	48.2	89	127	41	31
1672	Lebanon, OR	DH180800-LEB	2	42.6	98.9	45	82.8	n.d.	3	12.0	4.60	40.3	138	81.5	41	267	64	37
1673	Lebanon, OR	DH190053-LEB	2	42.0	97.7	43	80.7	2.6	1	10.5	3.79	39.6	150	67.9	32	185	47	41
1674	Lebanon, OR	DH190056-LEB	2	39.9	95.2	44	81.7	2.9	1	10.9	3.94	38.8	150	108.8	68	212	50	39
1675	Lebanon, OR	DH190074-LEB	2	40.1	96.0	52	81.8	2.5	1	10.4	4.10	42.2	175	97.4	22	238	60	52
1676	Lebanon, OR	DH190077-LEB	2	39.6	97.2	52	81.5	2.6	1	9.6	4.18	46.1	144	101.6	18	228	58	35
1677	Lebanon, OR	DH190100-LEB	2	41.1	97.9	42	81.2	n.d.	3	9.9	3.55	36.8	127	59.7	177	157	38	34
1678	Lebanon, OR	DH190103-LEB	2	39.0	97.9	41	82.0	n.d.	3	9.7	3.69	39.0	116	52.8	191	165	33	37
1679	Lebanon, OR	DH190104-LEB	2	40.6	97.1	43	81.0	3.7	2	9.5	4.15	46.0	110	45.7	200	150	41	37
1680	Lebanon, OR	DH190105-LEB	2	38.6	98.2	44	80.8	3.4	2	9.6	4.19	44.1	129	48.2	134	139	42	34
1681	Lebanon, OR	DH190108-LEB	2	42.2	97.0	45	80.2	2.1	1	10.1	4.14	43.5	133	44.7	316	140	43	40
1682	Lebanon, OR	DH190117-LEB	2	40.0	94.1	49	80.3	2.4	1	9.4	4.57	54.5	168	59.0	65	195	50	34
1683	Lebanon, OR	DH190195-LEB	2	44.1	97.6	46	81.3	2.5	1	8.9	4.17	48.8	146	47.2	166	148	41	32
1684	Lebanon, OR	DH190233-LEB	2	37.0	90.5	52	80.9	2.6	1	9.8	5.25	56.0	208	103.5	29	260	52	31
1685	Lebanon, OR	DH190241-LEB	2	39.2	97.4	43	81.3	2.8	1	9.4	4.53	52.3	113	66.9	77	190	48	44
1686	Corvallis, OR	DH200024-COR	2	45.9	98.0	46	83.3	3.1	1	8.8	4.44	56.0	147	88.7	18	223	56	43
1687	Corvallis, OR	DH200032-COR	2	45.3	97.4	50	82.6	3.1	1	10.5	4.91	49.9	188	85.0	23	263	60	41
1688	Corvallis, OR	DH200035-COR	2	43.5	96.8	55	82.3	3.0	1	10.3	4.96	50.1	181	86.8	22	280	60	41
1689	Corvallis, OR	DH200037-COR	2	42.6	96.7	54	83.2	2.8	1	10.3	4.79	49.1	180	88.2	28	272	56	41
1690	Corvallis, OR	DH200040-COR	2	44.8	95.4	51	82.2	2.7	1	10.7	5.02	49.7	183	86.9	63	277	60	36
1691	Corvallis, OR	CONRAD MALT CHECK	2	40.7	98.4	89	84.8	2.9	1	11.7	5.00	45.2	111	93.5	274	248	59	30
1692	Corvallis, OR	DH200065-COR	2	45.8	97.5	50	81.7	3.3	1	9.8	4.79	52.3	169	80.6	38	269	56	41
1693	Corvallis, OR	DH200076-COR	2	43.4	97.7	51	80.7	2.5	1	10.2	4.24	42.1	170	57.7	59	187	56	49
1694	Corvallis, OR	DH200080-COR	2	45.5	95.8	52	80.8	2.3	1	10.8	4.38	41.2	186	48.0	45	189	53	44
1695	Corvallis, OR	DH200089-COR	2	47.1	96.7	54	81.0	3.2	1	11.4	5.30	47.6	210	88.0	26	305	62	31
1696	Corvallis, OR	DH200103-COR	2	45.9	97.2	51	80.8	2.3	1	11.1	4.74	43.8	197	59.7	80	232	63	32
1697	Corvallis, OR	DH200159-COR	2	46.6	97.3	50	82.0	2.5	1	9.6	4.26	49.5	159	59.7	70	203	54	41
1698	Corvallis, OR	DH200232-COR	2	42.5	96.7	47	81.6	2.5	1	10.2	4.39	43.4	175	56.6	31	198	59	52
1699	Corvallis, OR	DH200253-COR	2	43.1	95.8	49	81.8	2.7	1	10.4	4.92	48.1	206	90.8	36	286	60	41
1700	Corvallis, OR	DH200280-COR	2	41.3	96.0	49	81.0	2.7	1	10.5	5.03	48.6	184	87.5	29	265	59	35
1701	Corvallis, OR	DH200282-COR	2	44.1	97.3	45	80.2	2.5	1	10.7	4.52	42.3	194	67.5	30	198	56	45
1702	Corvallis, OR	DH200273-COR	2	45.2	96.3	44	82.9	3.2	1	12.1	5.10	44.0	214	97.3	47	259	70	34
1703	Corvallis, OR	DH200325-COR	2	44.5	97.2	54	82.3	3.0	1	12.1	5.51	46.8	207	92.3	47	316	70	31
1704	Corvallis, OR	DH200359-COR	2	45.6	98.3	44	81.4	2.5	1	11.1	4.50	41.1	158	53.2	83	196	64	40
1705	Corvallis, OR	DH200362-COR	2	38.9	97.8	41	81.6	2.5	1	10.0	4.00	43.5	126	45.5	231	155	43	42
1706	Corvallis, OR	DH200375-COR	2	42.4	98.8	42	82.1	2.5	1	10.6	4.21	41.3	132	47.0	176	176	46	46
1707	Corvallis, OR	DH200424-COR	2	42.3	97.6	47	81.8	2.7	1	9.2	4.06	44.2	125	46.6	163	165	46	40
1708	Corvallis, OR	DH200450-COR	2	43.0	96.9	44	82.0	2.4	1	10.8	4.25	42.9	143	47.4	112	177	49	49
1709	Corvallis, OR	DH200456-COR	2	40.0	96.4	45	81.9	2.7	1	10.3	4.30	43.4	143	53.0	74	179	55	55
1710	Corvallis, OR	DH200458-COR	2	46.4	97.5	45	80.1	2.7	1	10.8	4.20	41.1	160	49.8	52	161	50	48
1711	Corvallis, OR	DH200476-COR	2	37.9	95.5	45	80.2	2.6	1	10.2	3.90	40.1	144	43.1	92	142	42	40
1712	Corvallis, OR	DH200495-COR	2	45.1	95.7	52	81.3	2.5	1	9.3	4.04	46.6	138	52.7	55	175	56	39
1713	Corvallis, OR	DH200617-COR	2	45.5	96.3	50	81.6	3.1	1	9.7	4.57	47.7	177	79.8	26	228	56	39
1714	Corvallis, OR	DH200619-COR	2	43.5	98.0	45	81.2	3.2	1	10.3	4.84	48.0	173	78.6	21	258	60	36
1715	Corvallis, OR	DH200620-COR	2	42.5	96.6	48	81.1	2.7	1	9.8	4.35	46.7	160	62.1	26	191	59	44
1716	Corvallis, OR	DH200623-COR	2	44.1	97.4	50	81.9	3.6	1	11.5	5.41	47.5	187	94.2	26	300	65	31
1717	Corvallis, OR	DH200634-COR	2	41.4	94.7	47	81.0	3.1	1	11.0	4.84	45.4	186	89.6	20	239	61	30
1718	Corvallis, OR	DH200635-COR	2	43.1	97.8	46	82.6	3.5	1	10.8	5.04	49.1	169	92.9	24	260	60	36

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Lab No.	Location	Variety or Selection	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agrton)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (*ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)	Adjunct Quality Score	All Malt Quality Score
1719	Corvallis, OR	DH200671-COR	2	48.6	97.4	43	80.9	2.8	1	10.7	4.10	39.3	145	52.6	67	166	48	44
1720	Corvallis, OR	DH200692-COR	2	47.5	96.0	42	80.0	2.7	1	12.0	4.21	37.8	161	50.2	52	171	53	39
1721	Corvallis, OR	DH200702-COR	2	44.2	94.8	42	81.3	2.8	1	9.6	4.29	47.4	154	52.0	53	172	51	43
1722		CONRAD MALT CHECK	2	40.5	98.3	89	84.9	3.0	1	11.6	4.99	46.5	121	109.2	143	215	65	26
1723	Corvallis, OR	DH200705-COR	2	45.1	96.2	46	81.4	2.8	1	9.7	4.04	45.9	135	60.5	58	156	56	39
1724	Corvallis, OR	DH200707-COR	2	40.2	98.1	43	81.6	2.9	1	10.2	4.17	45.1	155	56.0	73	160	55	52
1725	Corvallis, OR	DH200709-COR	2	40.4	97.9	41	81.6	2.8	1	11.0	4.01	38.9	142	46.3	94	142	47	42
1726	Corvallis, OR	DH200722-COR	2	42.4	97.4	46	82.4	2.4	1	8.8	3.97	46.4	148	51.8	45	154	53	44
1727	Corvallis, OR	DH200777-COR	2	41.4	96.5	53	82.3	3.2	1	10.2	4.70	47.2	173	88.5	18	235	55	43
1728	Corvallis, OR	DH200764-COR	2	43.7	96.5	47	82.5	3.5	1	10.0	4.94	52.1	171	83.6	39	246	60	41
1729	Corvallis, OR	DH200885-COR	2	46.0	98.0	52	82.4	2.4	1	9.8	4.06	43.5	172	61.1	70	168	56	52
1730	Corvallis, OR	DH200254-COR	2	43.7	95.2	43	81.5	3.6	1	10.8	5.18	49.2	191	94.8	18	263	60	31
1731	Corvallis, OR	DH200909-COR	2	45.2	97.0	51	82.4	2.6	1	10.0	4.15	43.6	169	68.0	45	165	56	61
1732	Corvallis, OR	DH201625-COR	2	50.5	98.2	46	82.3	2.6	1	10.6	3.97	38.2	163	46.0	234	145	38	36
1733	Corvallis, OR	B5713-96-COR	2	45.8	96.1	49	81.3	2.5	1	10.9	4.51	41.9	199	54.2	49	178	56	44
1734	Corvallis, OR	B5911-38-COR	2	42.3	96.9	46	81.6	3.0	1	10.3	4.49	47.8	123	48.4	13	198	51	49
1735	Corvallis, OR	B5613-12-COR	2	39.5	95.1	47	82.3	3.0	1	9.0	4.17	47.0	122	46.6	35	158	45	45
1736	Corvallis, OR	B5710-7-COR	2	46.5	97.4	47	82.7	2.6	1	10.6	4.59	46.1	169	55.2	15	202	59	37
1737	Corvallis, OR	B5710-36-COR	2	39.3	97.7	45	82.1	3.2	1	11.0	4.80	44.7	172	53.5	63	204	60	34
1738	Corvallis, OR	B5713-109-COR	2	40.7	96.6	49	82.5	2.8	1	10.3	4.21	44.2	142	51.3	130	161	51	51
1739	Corvallis, OR	B5714-114-COR	2	45.6	96.6	48	81.0	2.4	1	10.3	4.74	48.3	167	59.1	42	201	54	34
1740	Corvallis, OR	B5813-109-COR	2	47.8	98.4	53	82.8	2.5	1	9.1	4.55	53.0	127	49.5	17	193	51	40
1741	Corvallis, OR	B5814-124-COR	2	43.9	97.8	54	81.7	2.2	1	10.6	4.14	40.3	155	42.5	23	148	53	49
1742	Corvallis, OR	B5906-10-COR	2	46.1	95.1	50	82.7	2.7	1	9.5	4.46	48.6	133	47.4	28	189	51	44
1743	Corvallis, OR	DH200464-COR	2	44.1	96.6	41	81.1	2.6	1	11.1	4.36	42.6	149	53.9	21	177	61	48
1744	Corvallis, OR	DH200699-COR	2	43.5	96.8	46	80.9	2.6	1	10.8	4.52	42.7	161	64.2	32	184	56	40
1745	Corvallis, OR	DH200704-COR	2	39.5	96.9	41	81.4	2.9	1	10.4	4.43	44.8	141	56.9	27	171	53	48
1746	Corvallis, OR	DH200711-COR	2	36.4	96.5	44	81.5	3.8	1	9.8	4.24	45.2	122	47.9	50	169	48	43
1747	Corvallis, OR	DH200863-COR	2	43.4	95.5	47	81.7	2.6	1	9.8	4.36	45.4	137	51.4	27	180	56	48
1748	Corvallis, OR	DH210185-COR	2	46.5	98.3	51	81.6	3.1	1	11.6	4.40	40.3	177	47.1	188	170	51	41
1749	Corvallis, OR	DH210207-COR	2	51.0	98.8	52	81.0	2.8	1	12.0	4.69	39.4	190	52.6	199	190	49	28
1750	Corvallis, OR	DH210208-COR	2	44.8	97.7	57	79.6	2.7	1	13.5	5.34	41.2	225	54.7	81	239	57	27
1751	Corvallis, OR	DH210209-COR	2	44.5	96.6	53	79.6	3.0	1	12.4	4.86	40.0	184	47.8	267	205	55	20
1752	Corvallis, OR	DH210211-COR	2	46.4	94.9	57	81.8	2.6	1	11.5	4.87	45.5	176	54.4	52	208	68	34
1753		CONRAD MALT CHECK	2	41.2	98.3	90	85.7	2.3	1	11.0	5.55	51.9	137	118.2	95	277	64	35
1754	Corvallis, OR	DH210214-COR	2	48.9	98.8	53	81.5	2.4	1	11.3	4.88	44.5	178	64.8	176	203	61	30
1755	Corvallis, OR	DH210215-COR	2	45.9	97.6	58	79.2	2.6	1	13.3	5.04	39.7	205	53.8	107	205	48	20
1756	Corvallis, OR	DH210218-COR	2	49.5	96.9	47	80.6	2.7	1	13.3	4.68	35.6	178	42.8	356	189	41	26
1757	Corvallis, OR	DH210219-COR	2	48.4	96.9	52	79.1	2.5	1	12.4	4.77	39.7	186	47.8	308	183	43	20
1758	Corvallis, OR	DH210223-COR	2	45.1	95.1	56	79.1	1.6	1	12.2	4.91	41.7	193	51.6	213	197	55	20
1759	Corvallis, OR	DH210227-COR	2	50.1	98.1	63	79.3	1.6	1	12.1	5.59	47.4	222	61.6	74	249	59	19
1760	Corvallis, OR	DH210236-COR	2	46.9	96.6	56	79.5	1.5	1	12.2	5.34	47.4	203	54.6	374	235	55	12
1761	Corvallis, OR	DH210238-COR	2	47.1	97.4	55	80.5	1.6	1	13.2	5.51	43.2	191	53.7	218	213	55	20
1762	Corvallis, OR	DH210259-COR	2	46.7	97.2	54	79.1	1.7	1	12.3	5.10	43.6	172	47.9	275	205	52	15
1763	Corvallis, OR	DH210264-COR	2	44.8	94.8	52	79.3	1.6	1	12.9	5.35	43.3	187	50.2	220	239	57	15
1764	Corvallis, OR	DH210267-COR	2	48.0	96.2	47	79.8	1.8	1	11.4	4.98	45.1	142	46.3	550	200	55	23
1765	Corvallis, OR	DH210273-COR	2	48.9	98.2	49	80.3	1.7	1	13.2	5.21	41.3	184	52.0	390	217	55	22
1766	Corvallis, OR	DH210308-COR	2	44.7	96.5	50	79.7	1.7	1	13.3	5.34	42.5	181	51.0	323	221	55	20
1767	Corvallis, OR	DH210314-COR	2	44.9	97.6	61	80.3	1.5	1	11.6	5.27	47.5	182	54.4	108	228	58	20
1768	Corvallis, OR	DH210366-COR	2	48.9	97.5	55	80.4	1.8	1	13.4	5.81	45.7	174	62.8	123	267	54	20
1769	Corvallis, OR	DH210367-COR	2	43.8	95.4	55	80.2	1.7	1	12.6	5.54	46.4	194	60.7	151	258	60	17
1770	Corvallis, OR	DH210385-COR	2	48.5	98.1	54	79.9	1.6	1	11.7	4.87	43.3	158	49.0	389	196	55	21
1771	Corvallis, OR	DH210386-COR	2	47.9	97.7	52	81.4	1.8	1	10.5	5.07	50.9	151	52.8	174	227	53	22
1772	Corvallis, OR	DH210395-COR	2	49.5	96.2	53	79.5	1.7	1	12.2	5.83	50.7	177	59.9	145	259	54	15
1773	Corvallis, OR	DH210396-COR	2	50.5	97.5	52	80.3	1.7	1	12.5	5.65	47.0	170	55.8	328	245	51	17
1774	Corvallis, OR	DH210404-COR	2	47.9	96.2	55	79.1	1.6	1	12.8	5.17	43.1	175	48.8	149	192	55	21
1775	Corvallis, OR	DH210407-COR	2	53.0	98.6	51	80.2	1.4	1	12.2	5.03	43.2	174	46.8	317	192	55	23
1776	Corvallis, OR	DH210409-COR	2	49.5	97.8	53	80.1	1.4	1	12.8	4.86	40.7	170	51.2	182	191	58	25
1777	Corvallis, OR	DH210420-COR	2	50.0	98.6	54	80.2	1.5	1	12.6	5.47	43.7	191	56.7	147	227	63	23
1778	Corvallis, OR	DH210425-COR	2	46.5	98.8	49	79.6	1.7	1	13.5	5.34	41.0	193	52.2	228	228	50	20
1779	Corvallis, OR	DH210439-COR	2	45.8	98.1	54	80.1	1.4	1	12.1	5.43	45.9	197	50.2	137	216	63	20
1780	Corvallis, OR	DH210450-COR	2	45.2	95.1	54	79.7	1.7	1	10.8	4.84	46.3	145	42.2	387	180	50	23
1781	Corvallis, OR	DH210453-COR	2	53.4	97.7	55	80.7	1.6	1	11.9	4.76	42.2	155	44.6	210	177	48	29
1782	Corvallis, OR	DH210454-COR	2	55.5	98.1	51	79.6	1.8	2	12.0	5.21	44.7	161	47.0	277	167	51	24
1783	Corvallis, OR	DH210462-COR	2	52.5	98.0	54	80.5	1.9	1	11.8	5.39	48.1	172	55.3	279	198	53	20
1784		CONRAD MALT CHECK	2	41.0	98.3	90	84.7	1.9	1	11.7	5.92	52.9	136	109.7	159	253	53	23

2022 Crop Year Breeders' Submissions

Lab No.	Location	Variety or Selection	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agrton)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (*ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)	Adjunct Quality Score	All Malt Quality Score
1785	Corvallis, OR	DH210507-COR	2	48.1	97.4	51	81.6	2.0	1	13.3	6.22	49.6	190	99.8	96	265	53	31
1786	Corvallis, OR	DH210612-COR	2	50.8	95.4	52	79.1	1.7	1	12.2	5.11	44.8	209	55.0	313	177	52	22
1787	Fargo, ND	CONLON	2	42.3	96.4	55	80.3	1.6	1	14.0	5.51	41.5	169	93.6	382	199	48	27
1788	Fargo, ND	PINNACLE	2	39.7	93.5	43	81.8	2.3	1	11.8	5.61	48.4	111	93.3	457	214	48	28
1789	Fargo, ND	ND GENESIS	2	44.2	96.9	46	82.1	2.4	1	11.5	5.58	51.6	127	105.4	425	206	56	29
1790	Fargo, ND	AAC SYNERGY	2	40.0	91.9	52	82.1	2.6	1	12.9	6.58	53.2	158	128.9	151	277	48	21
1791	Fargo, ND	2ND32529	2	43.2	97.8	54	84.4	2.5	1	11.1	5.82	56.0	100	113.0	186	231	51	36
1792	Fargo, ND	2ND41748	2	44.6	97.7	50	84.9	2.5	1	10.9	5.72	54.8	118	94.0	41	233	53	39
1793	Fargo, ND	2ND41753	2	43.5	98.0	48	84.3	2.3	1	11.7	5.68	52.5	133	98.3	45	227	61	31
1794	Fargo, ND	2ND41762	2	41.9	95.1	52	81.9	2.1	1	11.9	5.49	48.7	126	86.4	155	208	55	23
1795	Fargo, ND	2ND41767	2	45.6	97.3	46	82.8	2.5	1	11.6	6.06	54.6	131	105.6	39	240	58	31
1796	Fargo, ND	2ND41790	2	40.2	94.4	49	82.1	2.0	1	11.6	5.51	51.9	131	98.9	129	220	60	26
1797	Fargo, ND	2ND41801	2	43.4	95.4	47	81.4	2.1	1	11.7	5.36	46.0	118	87.1	202	209	58	22
1798	Fargo, ND	2ND41803	2	41.8	96.2	49	83.1	2.1	1	11.7	5.45	49.0	115	100.0	297	204	52	26
1799	Fargo, ND	2ND41804	2	40.7	89.4	43	81.3	2.1	1	12.1	5.29	47.8	121	92.9	289	194	53	19
1800	Fargo, ND	2ND41810	2	43.8	97.0	46	81.5	1.9	1	11.5	5.04	46.9	104	79.2	353	179	55	33
1801	Fargo, ND	2ND41826	2	42.3	96.3	46	82.6	1.9	1	12.2	5.52	48.2	111	92.1	380	210	55	31
1802	Fargo, ND	2ND41827	2	42.5	97.4	42	81.9	1.9	1	12.2	5.10	44.7	125	81.4	213	177	58	34
1803	Fargo, ND	2ND41831	2	40.3	93.1	45	81.9	1.7	1	11.8	4.89	42.9	140	80.1	164	157	57	35
1804	Fargo, ND	2ND41837	2	46.2	98.3	45	83.4	2.7	1	12.0	6.22	55.5	145	99.2	25	259	58	31
1805	Fargo, ND	2ND41839	2	43.2	93.4	47	82.6	1.9	1	12.5	5.35	45.5	113	83.0	315	197	58	34
1806	Fargo, ND	2ND41857	2	40.6	94.1	49	82.9	2.4	1	11.3	5.33	50.6	97	103.5	137	227	53	34
1807	Fargo, ND	2ND41863	2	40.8	94.3	42	82.9	2.6	1	11.6	5.14	45.9	100	89.6	210	213	55	26
1808	Fargo, ND	2ND41873	2	42.1	91.0	49	84.4	1.9	1	11.6	5.27	49.5	136	97.0	33	219	65	31
1809	Fargo, ND	2ND41874	2	40.1	88.7	47	80.5	2.1	1	12.7	5.18	41.9	114	96.0	239	217	54	28
1810	Fargo, ND	2ND41887	2	45.6	95.0	44	81.9	2.4	1	12.0	5.22	45.0	124	91.3	110	219	66	27
1811	Fargo, ND	2ND41895	2	39.7	95.0	47	81.8	2.1	1	11.4	4.81	43.7	106	79.0	421	174	52	43
1812	Fargo, ND	2ND41898	2	40.4	94.4	44	82.3	2.5	1	11.5	5.21	48.3	123	97.8	135	219	60	31
1813	Fargo, ND	2ND41900	2	39.0	92.9	47	81.5	1.8	1	11.4	4.71	41.6	94	65.6	316	164	44	36
1814	Fargo, ND	2ND41908	2	43.1	97.5	51	82.1	2.1	1	11.7	4.84	44.0	102	68.6	434	178	55	44
1815		CONRAD MALT CHECK	2	41.3	98.5	88	84.7	2.1	1	11.8	5.59	49.9	123	100.5	202	212	57	23
1816	Fargo, ND	2ND41909	2	42.3	97.4	48	83.2	2.9	1	11.6	5.60	52.8	119	82.4	55	212	58	34
1817	Fargo, ND	2ND41917	2	42.5	98.1	46	82.2	2.3	1	11.3	5.10	47.5	135	93.2	135	185	59	35
1818	Fargo, ND	2ND41918	2	40.7	90.5	50	81.2	1.8	1	11.6	4.94	44.9	130	94.1	234	180	57	28
1819	Fargo, ND	2ND41920	2	41.4	97.2	44	82.8	2.0	1	11.2	4.86	43.8	117	87.4	403	182	57	37
1820	Fargo, ND	2ND41922	2	40.3	97.9	46	83.0	1.9	1	11.3	4.96	44.5	143	99.4	82	174	64	45
1821	Fargo, ND	2ND41929	2	43.0	97.3	43	82.0	2.0	1	11.5	5.03	45.7	123	92.0	434	179	58	31
1822	Fargo, ND	2ND41933	2	40.9	89.9	47	80.7	1.7	1	12.1	5.05	45.1	136	82.2	165	170	52	23
1823	Fargo, ND	2ND41936	2	48.9	97.6	49	81.9	2.2	1	12.7	5.77	46.8	142	80.5	24	204	64	31
1824	Fargo, ND	2ND41943	2	44.6	96.8	46	83.8	2.8	1	11.9	5.89	53.7	121	95.9	47	229	61	31
1825	Fargo, ND	2ND41963	2	36.7	87.8	47	80.9	1.9	1	11.7	4.60	39.9	123	72.4	124	149	42	29
1826	Fargo, ND	2ND41964	2	37.7	92.0	46	82.0	1.9	1	12.1	5.09	45.1	123	83.9	194	188	56	22
1827	Fargo, ND	2ND41965	2	40.6	94.1	46	83.0	2.3	1	11.0	5.11	46.9	98	98.1	251	197	48	34
1828	Fargo, ND	2ND41975	2	38.3	91.0	41	82.0	2.1	1	11.7	5.03	43.1	121	101.1	310	197	58	27
1829	Fargo, ND	2ND41976	2	44.0	95.5	47	82.3	2.1	1	12.0	5.32	45.8	132	107.3	183	220	63	24
1830	Fargo, ND	2ND41981	2	40.1	95.3	44	82.8	2.6	1	10.8	5.15	49.4	132	98.9	51	211	59	35
1831	Fargo, ND	2ND41982	2	45.6	97.6	46	82.0	3.6	1	10.7	5.78	55.7	116	102.0	19	271	53	39
1832	Fargo, ND	2ND41988	2	43.9	97.5	50	82.4	2.6	1	11.5	5.68	49.9	146	109.7	51	236	61	36
1833	Fargo, ND	2ND41995	2	47.3	97.9	48	82.1	3.7	1	11.3	6.25	57.7	127	121.0	11	283	58	36
1834	Fargo, ND	2ND42000	2	39.7	95.8	49	82.5	3.0	1	10.8	5.75	56.4	118	115.9	26	261	50	36
1835	Fargo, ND	2ND42012	2	43.1	97.6	43	82.1	2.9	1	11.7	5.59	48.7	136	105.8	322	237	58	24
1836	Fargo, ND	2ND42016	2	44.9	96.8	47	80.5	2.7	1	13.8	5.94	45.1	147	107.0	237	251	46	19
1837	Fargo, ND	2ND42021	2	41.0	96.4	50	83.8	3.0	1	11.8	5.40	47.2	136	88.9	352	214	57	23
1838	Corvallis, OR	DH210614-COR	2	53.4	98.5	58	81.7	2.0	1	11.0	4.90	46.9	162	45.9	109	188	56	33
1839	Corvallis, OR	DH210656-COR	2	47.2	98.1	59	82.1	2.4	1	12.5	5.85	50.0	162	72.9	87	266	61	34
1840	Corvallis, OR	DH210718-COR	2	47.4	96.1	57	80.8	1.7	1	11.7	5.09	45.5	240	45.2	99	207	62	24
1841	Corvallis, OR	DH210722-COR	2	44.3	93.9	53	80.6	2.0	1	11.9	5.28	47.0	203	50.8	70	210	67	24
1842	Corvallis, OR	DH210745-COR	2	51.7	97.4	56	79.6	1.9	1	12.8	4.91	40.3	195	44.8	157	168	52	27
1843	Corvallis, OR	DH210751-COR	2	47.8	97.4	51	81.5	2.2	1	12.0	5.00	44.1	166	49.1	107	194	61	31
1844	Corvallis, OR	DH210792-COR	2	49.1	96.2	62	82.1	2.1	1	10.2	4.78	50.0	177	51.2	149	185	50	38
1845	Corvallis, OR	DH210798-COR	2	49.1	97.4	56	80.4	2.1	1	12.2	5.30	44.6	214	47.7	83	198	62	30
1846		CONRAD MALT CHECK	2	40.2	98.0	89	84.7	2.5	1	11.4	5.50	52.2	126	95.5	188	222	57	28
1847	Corvallis, OR	DH210800-COR	2	51.8	98.3	54	81.5	2.0	1	12.9	5.11	42.6	213	45.0	83	184	65	37
1848	Corvallis, OR	DH210803-COR	2	48.6	97.1	51	82.0	2.2	1	12.1	5.45	48.9	188	50.8	76	206	63	29
1849	Corvallis, OR	DH210806-COR	2	47.5	98.1	56	81.6	2.1	1	12.2	5.46	46.1	191	55.1	38	224	70	29
1850	Corvallis, OR	DH210937-COR	2	49.4	96.9	51	81.9	2.3	1	11.7	5.21	48.2	157	51.9	71	188	63	32

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Lab No.	Location	Variety or Selection	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agtron)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (*ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)	Adjunct Quality Score	All Malt Quality Score
1851	Corvallis, OR	DH210941-COR	2	47.4	96.9	51	80.9	2.4	1	11.1	5.02	45.9	149	50.6	44	177	62	36
1852	Corvallis, OR	DH211278-COR	2	46.3	97.9	54	80.1	2.2	1	12.5	4.79	40.6	203	41.5	400	138	48	25
1853	Corvallis, OR	DH211292-COR	2	42.3	95.3	46	79.9	2.5	1	12.1	5.34	44.9	237	71.1	139	179	58	33
1854	Corvallis, OR	DH211295-COR	2	48.6	99.2	55	80.8	2.5	1	11.9	5.55	49.8	221	58.2	26	188	60	27
1855	Corvallis, OR	DH211297-COR	2	43.0	96.5	44	80.6	2.2	1	10.9	5.05	48.0	183	57.2	111	169	48	32
1856	Corvallis, OR	DH211300-COR	2	45.7	98.6	53	81.9	2.2	1	10.1	5.09	53.8	206	74.8	38	170	55	51
1857	Corvallis, OR	DH211301-COR	2	44.7	97.6	54	81.3	2.1	1	10.9	5.37	52.3	198	63.4	17	185	58	32
1858	Corvallis, OR	DH211306-COR	2	44.0	97.5	48	80.6	2.3	1	13.0	5.87	48.1	194	64.6	31	201	51	24
1859	Corvallis, OR	DH211312-COR	2	44.7	99.1	43	81.1	2.4	1	11.1	5.75	55.0	205	70.3	22	188	59	37
1860	Corvallis, OR	DH211313-COR	2	45.7	98.5	43	80.0	2.8	1	12.9	5.74	47.3	214	62.7	31	179	53	29
1861	Corvallis, OR	DH211316-COR	2	48.9	98.6	47	80.5	1.6	1	12.6	4.93	42.0	189	47.1	188	132	52	25
1862	Corvallis, OR	DH211317-COR	2	46.0	98.3	52	80.7	2.0	1	12.2	5.75	49.0	215	56.5	55	203	56	24
1863	Corvallis, OR	DH211321-COR	2	50.7	98.6	50	79.6	2.0	1	12.8	5.48	44.8	207	53.2	128	158	58	28
1864	Corvallis, OR	DH211322-COR	2	46.8	97.5	50	81.4	2.0	1	11.6	5.24	46.5	190	47.9	34	158	62	31
1865	Corvallis, OR	DH211323-COR	2	46.1	97.6	49	81.3	2.1	1	11.4	5.41	51.0	213	50.0	117	178	56	32
1866	Corvallis, OR	DH211325-COR	2	49.9	98.9	59	80.3	1.8	1	13.3	5.36	42.8	219	41.0	116	146	50	28
1867	Corvallis, OR	DH211330-COR	2	45.6	97.4	64	82.1	1.8	1	11.9	5.81	50.4	232	52.5	34	189	59	32
1868	Corvallis, OR	DH211331-COR	2	49.7	99.1	62	82.3	2.1	1	12.0	6.08	54.0	243	67.7	30	230	58	34
1869	Corvallis, OR	DH211335-COR	2	49.1	98.9	55	80.7	1.8	1	12.9	5.50	45.0	217	55.4	195	174	55	27
1870	Corvallis, OR	DH211336-COR	2	46.7	99.3	61	80.8	1.9	1	11.1	5.65	51.8	199	63.6	75	189	56	32
1871	Corvallis, OR	DH211338-COR	2	46.8	94.5	56	81.9	1.9	1	11.3	5.49	50.5	201	63.5	164	183	56	30
1872	Corvallis, OR	DH211340-COR	2	44.2	97.0	59	81.6	1.7	1	10.9	4.92	46.7	167	49.7	263	154	50	34
1873	Corvallis, OR	Endeavor-COR	2	41.7	93.7	58	80.9	2.0	1	11.2	5.37	50.1	174	83.8	384	194	52	26
1874	Corvallis, OR	Wintmalt-COR	2	47.9	97.1	56	81.5	1.9	1	10.6	5.08	51.4	171	68.5	79	170	55	46
1875	Corvallis, OR	Thunder-COR	2	45.7	97.0	52	82.5	2.5	1	11.3	6.06	57.2	181	111.5	30	251	58	36
1876	Corvallis, OR	Lightning-COR	2	47.7	97.5	59	80.9	1.9	1	12.3	5.53	47.4	198	51.5	98	195	60	27
1877		CONRAD MALT CHECK	2	41.1	98.2	89	84.5	2.0	1	11.4	5.72	52.0	130	97.9	196	216	53	28
1878	Corvallis, OR	DH180670-COR	2	44.6	92.7	18	89.5	2.8	1	10.8	5.78	57.6	119	111.6	85	277	53	39
1879	Corvallis, OR	DH180676-COR	2	43.1	90.6	12	90.4	3.5	1	12.8	6.80	53.0	230	122.4	33	370	58	31
1880	Corvallis, OR	VT190079-COR	2	37.7	95.4	1	86.7	2.5	1	12.5	5.97	49.4	154	82.4	141	263	52	22
1881	Corvallis, OR	VT190714-COR	2	38.0	93.4	0	86.1	2.3	1	12.1	5.60	50.2	171	80.3	147	257	54	24
1882	Corvallis, OR	VT190041-COR	2	37.7	87.0	4	88.4	2.5	1	10.0	5.13	56.7	78	88.6	110	231	42	30
1883	Corvallis, OR	Buck-COR	6	30.4	52.6	6	86.2	3.0	1	10.7	5.87	60.6	87	49.0	55	307	40	N/A
1884	Corvallis, OR	DH180670-LEB	2	42.9	89.1	25	86.2	2.1	1	10.7	4.63	47.8	126	109.1	383	178	42	37
1885	Corvallis, OR	DH180676-LEB	2	40.2	91.4	18	90.2	2.8	1	10.3	5.80	60.6	188	120.3	52	278	55	40
1886	Corvallis, OR	VT190079-LEB	2	39.5	97.7	0	87.0	2.2	1	11.8	5.74	49.9	147	80.7	146	246	54	24
1887	Corvallis, OR	VT190714-LEB	2	36.6	92.6	0	87.8	2.2	1	9.6	5.10	58.0	146	81.8	136	225	51	27
1888	Corvallis, OR	VT190041-LEB	2	36.1	89.2	10	88.5	2.1	1	8.9	4.46	54.7	67	74.3	52	175	37	46
1889	Corvallis, OR	Buck-LEB	6	30.4	52.6	30	88.3	2.0	2	10.2	4.66	46.9	109	51.6	393	173	32	N/A
1890	Corvallis, OR	DH141515-COR	2	39.5	96.7	40	81.8	2.0	1	11.4	5.13	47.1	150	48.7	296	196	50	27
1891	Corvallis, OR	DH141969-COR	2	40.4	96.7	42	80.5	2.1	1	11.2	4.89	45.5	199	50.9	273	175	54	28
1892	Corvallis, OR	DH142010-COR	2	45.0	98.7	39	81.2	2.0	1	11.7	5.48	48.0	179	57.1	51	223	65	24
1893	Corvallis, OR	DH150115-COR	2	35.2	91.1	44	82.0	2.2	1	10.0	5.33	53.8	121	57.5	45	233	55	34
1894	Fargo, ND	CONLON	2	40.3	95.5	54	80.6	1.9	1	13.6	5.34	40.8	146	88.3	431	210	49	23
1895	Fargo, ND	PINNACLE	2	39.4	93.3	46	81.5	2.5	1	12.4	5.40	45.9	101	77.4	493	210	55	28
1896	Fargo, ND	ND GENESIS	2	44.4	97.6	49	82.1	2.2	1	10.8	5.35	50.4	107	90.3	464	202	48	36
1897	Fargo, ND	AAC SYNERGY	2	41.3	92.3	51	82.3	2.7	1	13.5	6.35	48.5	132	108.0	242	278	45	23
1898	Fargo, ND	2ND32529	2	43.1	97.4	52	84.4	2.3	1	10.8	5.57	53.2	98	99.5	228	233	46	32
1899	Fargo, ND	2ND42029	2	42.4	95.4	53	82.2	2.2	2	10.9	4.89	46.2	124	76.3	484	182	55	31
1900	Fargo, ND	2ND42041	2	45.4	98.7	43	83.2	2.1	1	11.4	5.72	52.4	141	106.9	111	248	57	32
1901	Fargo, ND	2ND42042	2	43.3	97.6	47	82.9	2.3	1	10.8	5.20	48.6	114	95.9	450	218	50	36
1902	Fargo, ND	2ND42043	2	40.0	92.9	50	83.7	2.0	1	10.6	5.21	50.5	142	91.3	378	206	48	26
1903	Fargo, ND	2ND42050	2	39.1	89.9	48	81.6	n.d.	3	10.8	4.99	46.3	112	83.5	400	193	46	32
1904	Fargo, ND	2ND42053	2	41.5	97.0	45	81.8	2.0	1	12.4	5.32	44.8	155	83.1	410	210	62	26
1905	Fargo, ND	2ND42058	2	44.2	98.2	48	82.2	2.0	1	11.1	5.37	48.5	121	93.0	393	206	56	29
1906	Fargo, ND	2ND42059	2	40.2	96.1	46	81.6	2.4	1	10.6	5.43	52.2	135	103.4	358	231	52	28
1907	Fargo, ND	2ND42067	2	44.4	97.4	47	82.1	2.0	1	11.5	5.32	47.3	96	83.1	410	216	51	32
1909	Fargo, ND	2ND42076	2	42.8	97.7	47	84.6	1.7	1	11.5	5.70	49.4	91	78.7	334	250	47	24
1910	Fargo, ND	2ND42080	2	46.6	97.4	45	83.3	2.1	1	11.4	5.85	51.4	137	104.9	190	242	54	29
1911	Fargo, ND	2ND42085	2	46.2	97.7	47	84.6	2.0	1	10.3	5.26	53.2	109	87.9	257	208	48	41
1912	Fargo, ND	2ND42092	2	45.8	96.7	46	84.8	2.3	1	11.1	5.68	52.0	132	83.7	148	230	57	32
1913	Fargo, ND	2ND42105	2	47.8	99.1	48	84.4	2.5	1	11.2	6.07	55.4	117	110.8	82	261	55	39
1914	Fargo, ND	2ND42106	2	44.4	97.7	49	85.8	3.4	1	10.5	5.63	54.9	119	113.0	60	243	53	44
1915	Fargo, ND	2ND42109	2	45.1	97.7	41	84.2	2.6	1	11.3	5.27	48.4	110	86.4	194	212	55	36
1916	Fargo, ND	2ND42110	2	45.3	98.3	46	83.8	2.4	1	11.3	5.32	49.1	134	84.6	79	220	65	36
1917	Fargo, ND	2ND42111	2	47.7	97.8	47	82.8	2.3	1	11.8	5.00	43.2	90	75.0	429	203	54	27

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Lab No.	Location	Variety or Selection	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agtron)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (*ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)	Adjunct Quality Score	All Malt Quality Score
1918	Fargo, ND	2ND42112	2	46.8	96.6	49	82.0	2.4	1	11.0	5.07	47.2	98	77.1	333	210	51	32
1919	Fargo, ND	2ND42125	2	45.0	99.0	44	83.6	2.8	1	12.9	5.91	49.4	176	98.7	88	261	61	31
1920	Fargo, ND	2ND42126	2	43.5	98.4	44	83.8	2.7	1	12.9	5.74	46.9	175	94.8	102	237	62	27
1921	Fargo, ND	2ND42127	2	46.4	98.5	44	84.1	3.0	1	11.9	5.94	50.6	152	104.1	119	253	57	27
1922	Fargo, ND	2ND42128	2	45.8	98.9	46	84.0	3.4	1	12.5	6.14	51.8	137	114.0	86	278	58	31
1923	Fargo, ND	2ND42131	2	41.4	95.8	46	82.4	2.1	1	12.1	4.88	43.2	132	78.4	350	193	60	29
1924	Fargo, ND	2ND42140	2	47.4	99.0	48	84.7	2.3	1	11.1	5.53	50.4	135	109.1	99	242	65	36
1925	Fargo, ND	2ND42143	2	47.5	97.2	46	84.2	2.9	1	10.7	5.56	53.3	121	95.2	52	234	60	36
1926	Fargo, ND	2ND42146	2	41.4	94.0	49	82.2	2.5	1	12.6	5.25	44.5	110	89.9	188	230	59	33
1927	Fargo, ND	2ND42150	2	40.4	97.5	42	79.7	2.9	1	15.4	6.40	42.1	184	90.6	58	279	49	28
1928	Fargo, ND	2ND42152	2	42.7	92.1	45	80.9	3.5	1	13.0	6.07	48.6	124	102.4	36	304	55	26
1929	Fargo, ND	2ND42174	2	45.8	98.2	44	83.0	2.3	1	12.4	5.42	45.5	133	88.5	90	222	70	31
1930	Fargo, ND	2ND42185	2	41.8	95.7	47	81.8	2.6	1	12.2	4.97	42.1	131	87.5	357	189	60	31
1931	Fargo, ND	2ND42205	2	41.6	95.6	52	82.6	2.3	1	12.7	5.28	44.7	127	88.5	204	209	60	26
1932	Fargo, ND	2ND42246	2	45.7	99.0	45	83.7	2.3	1	11.1	5.43	49.5	126	93.8	116	227	61	32
1933	Fargo, ND	2ND42258	2	45.0	97.8	43	83.9	4.3	1	12.8	6.18	50.7	121	96.3	64	274	58	31
1934	Fargo, ND	2ND42266	2	45.1	98.2	46	83.8	3.1	1	11.2	5.88	52.7	125	111.1	16	281	61	36
1935	Fargo, ND	2ND42272	2	44.4	98.1	51	84.4	3.3	1	11.7	5.81	54.4	137	125.2	19	263	61	31
1936	Fargo, ND	2ND42289	2	39.7	98.1	48	81.9	2.2	1	12.7	5.05	41.9	113	89.3	367	194	55	36
1937	Fargo, ND	2ND42299	2	47.6	98.8	46	83.4	2.3	1	11.7	5.54	47.9	136	96.5	199	252	58	24
1938	Fargo, ND	2ND42310	2	46.5	96.9	44	83.8	2.6	1	12.1	5.75	50.3	131	100.3	37	243	61	31
1939		CONRAD MALT CHECK	2	40.3	97.8	89	84.6	1.9	1	11.5	5.38	48.5	134	114.8	179	230	57	23
1940	Fargo, ND	2ND42313	2	48.3	97.6	47	83.4	2.1	1	11.2	5.18	47.7	145	89.3	63	195	63	39
1941	Fargo, ND	2ND42327	2	43.9	92.1	50	83.8	2.3	1	11.3	5.42	48.6	133	101.7	225	216	58	29
1942	Fargo, ND	2ND42402	2	45.2	97.4	45	83.4	2.3	1	12.3	5.45	46.3	121	109.5	184	231	63	24
1943	Fargo, ND	2ND42403	2	46.8	97.7	43	82.3	2.4	1	11.9	5.23	47.7	123	101.9	224	204	56	24
1944	Fargo, ND	2ND42408	2	44.8	97.2	45	84.0	2.6	1	11.5	5.34	49.2	117	101.3	223	215	55	27
1945	Fargo, ND	2ND42416	2	48.7	98.3	48	84.2	2.3	1	11.4	5.43	49.4	128	91.7	246	214	58	29
1946	Lebanon, OR	Lightning-LB	2	41.0	94.7	51	80.7	1.7	1	10.6	4.69	46.3	148	49.1	65	184	52	34
1948	Lebanon, OR	Alba-LB	6	32.4	71.6	70	78.5	2.1	1	9.5	3.90	42.1	89	46.8	524	121	28	N/A
1949	Lebanon, OR	10.0691-LB	2	29.9	68.9	36	83.3	2.0	1	13.8	4.88	36.5	92	65.7	677	173	26	27
1950	Lebanon, OR	DH140124-LB	6	29.1	39.8	10	83.0	2.0	1	14.4	5.18	37.6	170	64.3	449	184	31	N/A
1951	Lebanon, OR	DH180670-LB	2	39.5	79.7	30	85.9	2.6	1	14.8	6.43	46.5	118	106.6	345	284	35	19
1952	Lebanon, OR	DH180677-LB	2	29.1	78.6	16	86.1	2.9	1	13.8	7.63	55.4	205	121.4	583	326	31	14
1953	Lebanon, OR	MTV-color-2-LB	6	40.3	64.4	0	80.4	2.0	1	13.8	4.43	34.5	104	55.6	628	112	24	N/A
1954	Lebanon, OR	MTV-color-98-LB	2	41.3	81.4	0	82.7	2.4	1	13.9	5.33	41.0	117	65.6	510	173	39	36
1955	Lebanon, OR	10.1151-LB	6	24.5	55.2	47	81.0	2.1	1	11.6	5.03	43.4	109	48.1	281	158	34	N/A
1956	Lebanon, OR	10.2021-LB	6	30.2	44.1	12	83.1	2.1	1	12.1	4.58	40.0	145	54.8	557	128	37	N/A
1957	Lebanon, OR	DH133394-LB	6	26.2	57.0	46	83.8	2.1	1	12.0	5.12	46.5	91	65.1	505	150	37	N/A
1958	Lebanon, OR	DH133625-LB	6	27.9	50.4	19	83.4	2.2	1	12.3	4.92	40.8	101	72.4	623	139	32	N/A
1959	Lebanon, OR	DH133626-LB	6	27.7	53.3	24	86.9	2.2	1	11.3	5.15	49.1	93	80.4	534	163	27	N/A
1960	Lebanon, OR	DH133950-LB	2	32.2	61.0	7	84.3	2.0	1	15.6	5.76	39.0	122	72.7	617	186	32	25
1961	Lebanon, OR	DH140068-LB	2	33.2	74.4	4	82.6	2.9	1	15.9	5.73	37.8	77	71.0	645	185	25	23
1962	Lebanon, OR	DH140494-LB	2	32.1	67.9	22	86.6	2.1	1	13.9	6.04	45.5	157	109.5	476	245	36	14
1963	Lebanon, OR	DZ100325-LB	2	34.4	57.0	10	82.3	1.9	1	13.6	4.80	37.9	113	59.9	562	146	26	25
1964	Lebanon, OR	OBADV 10-13-LB	6	30.3	49.0	2	82.8	2.1	1	14.1	4.43	33.7	118	39.7	599	109	16	N/A
1965	Lebanon, OR	VA16H-158-LB	6	30.7	47.7	0	83.2	1.5	1	14.2	4.60	32.4	140	46.5	543	117	24	N/A
1966	Lebanon, OR	Lightning-LB	2	52.6	99.5	77	80.4	1.7	1	11.8	5.25	46.9	136	44.9	375	181	55	20
1967	Lebanon, OR	MS10S4111-01-LB	6	37.3	91.2	53	87.0	3.1	2	9.6	4.98	56.7	119	65.7	314	171	36	N/A
1968	Lebanon, OR	Full Pint-LB	2	44.0	96.0	66	81.9	1.8	1	10.2	5.35	54.6	137	108.8	185	221	53	34
1969	Lebanon, OR	DH140078-LB	2	39.3	85.4	28	83.4	2.1	1	13.8	4.71	35.4	99	40.9	656	115	24	23
1970		CONRAD MALT CHECK	2	40.9	98.1	87	84.8	1.7	1	11.8	5.80	53.3	137	104.7	184	245	53	23
1971	Lebanon, OR	12 WA-106-2-LB	2	42.1	93.7	36	80.8	3.0	2	9.9	4.55	46.7	128	56.7	279	142	45	32
1972	Lebanon, OR	DH140124-LB	6	38.1	38.6	21	87.3	2.7	2	11.3	4.71	44.4	129	51.0	395	143	37	N/A
1973	Lebanon, OR	DH160805-LB	6	36.5	84.3	29	87.7	1.6	1	9.8	4.44	47.3	81	49.9	160	132	34	N/A
1974	Lebanon, OR	DH140284-LB	2	38.9	88.6	33	84.1	2.4	2	11.8	4.51	40.7	171	33.5	206	113	41	24
1975	Lebanon, OR	DH140426-LB	2	38.0	91.0	23	82.1	n.d.	3	12.7	4.31	35.6	152	32.6	325	113	37	27
1976	Lebanon, OR	DH140427-LB	2	35.7	83.0	20	80.6	1.6	1	16.9	4.66	28.7	194	36.1	411	123	19	13
1977	Lebanon, OR	DH140515-LB	2	36.4	88.2	23	81.5	1.5	1	14.8	4.56	32.9	132	40.7	159	130	29	16
1978	Lebanon, OR	DH140641-LB	2	36.3	82.2	22	87.6	1.8	1	11.8	4.38	40.5	126	62.6	450	124	44	24
1979	Lebanon, OR	Purple Prince-LB	2	44.4	95.6	0	81.6	2.3	1	13.9	4.32	31.6	119	42.6	519	126	33	35
1980	Lebanon, OR	DH160798-LB	6	34.7	77.6	26	84.8	2.2	2	11.5	3.91	36.8	88	30.0	600	94	24	N/A
1981	Lebanon, OR	White Queen-LB	2	47.7	96.6	15	83.4	2.0	2	15.3	4.27	29.7	100	35.8	608	106	24	34
1982	Lebanon, OR	DH160800-LB	6	39.5	92.7	38	84.4	1.9	1	11.1	3.82	35.5	69	36.8	644	100	27	N/A
1983	Lebanon, OR	DH160802-LB	6	39.6	89.8	45	85.6	2.0	1	10.5	4.00	40.4	97	42.5	495	116	31	N/A
1984	Lebanon, OR	DH160806-LB	6	39.2	86.0	28	88.3	1.8	1	9.6	4.20	45.8	112	54.4	298	135	39	N/A

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Lab No.	Location	Variety or Selection	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agron)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (*ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)	Adjunct Quality Score	All Malt Quality Score
1985	Lebanon, OR	DH160822-LB	6	37.4	85.1	46	86.6	1.7	1	10.9	3.99	38.2	83	47.1	527	123	31	N/A
1986	Lebanon, OR	MC0181-11-LB	2	38.1	86.0	29	87.6	1.6	1	11.9	4.54	40.5	142	64.3	225	136	49	28
1987	Lebanon, OR	OCF21-20-LB	2	36.8	87.2	16	89.0	3.7	1	11.7	6.05	57.2	164	127.1	135	279	47	20
1988	Lebanon, OR	OCF22-4-LB	2	36.7	84.1	15	87.0	2.7	1	13.6	5.83	45.0	162	116.7	365	241	39	17
1989	Lebanon, OR	OCF23-3-LB	2	31.6	83.3	30	90.2	2.4	1	11.2	5.55	54.4	170	105.7	77	268	55	26
1990	Lebanon, OR	OCS1-13-LB	2	43.2	94.2	17	89.2	2.0	1	12.0	5.29	47.0	148	99.8	386	217	63	24
1991	Lebanon, OR	OCS3-38-LB	2	40.1	91.1	10	87.9	2.1	1	14.6	5.86	42.7	169	120.5	295	262	48	28
1992	Lebanon, OR	OCS3-47-LB	2	41.5	93.6	20	87.4	2.1	1	14.7	5.82	41.0	150	115.7	341	253	48	28
1993	Lebanon, OR	OCS4-10-LB	2	44.3	96.5	24	87.7	3.2	1	14.3	5.92	43.7	165	109.7	484	241	49	27
1994	Lebanon, OR	OCS5-42-LB	2	41.0	96.7	29	88.6	n.d.	3	12.5	5.36	45.0	150	72.5	283	205	58	24
1995	Crookston, MN	S2M193	2	43.7	96.5	46	82.6	1.9	1	11.1	4.68	42.0	127	73.9	225	177	54	47
1996	Crookston, MN	S2M195	2	39.1	95.2	47	83.0	2.2	1	10.7	4.92	49.7	117	95.8	393	212	47	29
1997	Crookston, MN	S2M192	2	40.1	94.8	47	82.4	2.3	1	10.9	4.98	47.0	105	88.7	249	210	52	35
1998	Crookston, MN	TM18.211-013	2	39.0	90.7	49	82.9	n.d.	3	9.7	4.33	44.5	117	62.2	295	142	41	38
1999	Crookston, MN	S2M196	2	42.1	97.9	47	82.6	2.0	1	11.1	4.77	44.8	94	69.0	253	200	50	35
2000	Crookston, MN	TM18.211-018	2	43.2	97.4	46	81.5	n.d.	3	10.3	3.96	40.7	91	44.6	340	130	34	38
2001		CONRAD MALT CHECK	2	40.6	97.6	90	84.9	1.8	1	12.2	5.56	48.7	119	95.1	195	258	54	26
2002	Crookston, MN	TM18.056-043	2	41.4	98.8	47	82.3	2.1	1	10.9	4.75	46.3	101	78.8	142	208	51	38
2003	Crookston, MN	TM18.140-002	2	39.1	96.1	51	83.7	2.6	2	10.2	4.52	46.4	106	74.1	231	166	42	50
2004	Crookston, MN	TM18.177-005	2	40.6	97.3	42	83.3	2.1	1	10.8	4.85	48.0	80	87.4	290	212	45	28
2005	Crookston, MN	S2M194	2	41.8	97.2	49	81.8	2.3	1	11.1	5.02	48.8	109	98.5	392	225	54	35
2006	Crookston, MN	ND_GENESIS	2	39.4	94.9	43	82.4	2.0	1	10.7	4.66	45.8	113	82.0	317	180	43	43
2007	Crookston, MN	TM18.140-035	2	41.8	96.6	48	83.4	2.3	2	10.7	4.55	45.2	120	78.6	186	181	50	33
2008	Crookston, MN	2MS19_3351-018	2	43.9	97.3	53	83.2	2.1	1	12.1	5.40	47.3	104	92.8	301	251	55	31
2009	Crookston, MN	PINNACLE	2	39.7	94.5	54	81.6	2.0	2	10.5	4.41	43.1	109	65.8	366	160	42	57
2010	Crookston, MN	2MS19_3389-004	2	47.4	98.4	43	82.4	2.6	1	11.2	5.57	51.8	122	98.9	106	268	61	32
2011	Crookston, MN	QUEST	6	33.1	88.9	52	79.7	2.1	1	12.0	4.68	39.1	153	80.7	335	208	49	N/A
2012	Crookston, MN	S2M191	2	48.5	98.3	53	83.9	2.6	1	10.3	4.77	48.8	105	100.1	158	211	46	41
2013	Crookston, MN	CONLON	2	41.2	96.8	52	81.4	2.1	1	11.3	4.44	40.1	118	82.5	357	181	53	41
2014	Crookston, MN	TM19.003-008	2	37.8	89.4	47	81.5	2.9	1	11.3	5.08	46.8	122	104.5	223	257	56	17
2015	Crookston, MN	PINNACLE	2	39.6	91.8	58	80.8	2.1	1	10.7	4.24	39.7	108	65.2	333	156	35	50
2016	Crookston, MN	2MS20_3310-018	2	41.7	98.3	51	81.1	2.3	1	10.6	3.90	38.7	57	68.0	266	142	33	35
2017	Crookston, MN	2MS20_3808-005	2	42.0	96.8	50	82.2	2.1	1	11.1	4.25	41.8	108	73.6	336	152	50	57
2018	Crookston, MN	2MS20_3290-026	2	41.3	94.0	53	82.4	2.8	1	11.3	4.89	47.6	114	100.1	329	205	52	35
2019	Crookston, MN	2MS20_3272-021	2	45.0	98.0	49	80.9	2.7	1	10.9	4.14	40.0	91	56.5	365	142	39	37
2020	Crookston, MN	2MS20_3279-023	2	47.0	99.2	52	83.3	2.3	1	11.3	5.02	46.6	105	107.2	302	227	60	36
2021	Crookston, MN	2MS20_3246-010	2	39.6	93.9	49	83.0	2.4	1	10.3	4.75	49.8	108	80.9	308	193	41	41
2022	Crookston, MN	TM19.023-002	2	46.0	97.9	57	81.0	1.6	1	12.3	4.21	34.8	137	49.1	415	136	46	30
2023	Crookston, MN	2MS20_3227-028	2	43.5	92.3	53	82.3	2.3	1	10.8	4.77	44.5	105	92.5	340	195	49	42
2024	Crookston, MN	2MS20_3227-003	2	43.3	95.5	51	81.6	2.0	1	11.3	4.71	43.7	107	93.0	308	180	54	42
2025	Crookston, MN	CONLON	2	39.9	94.6	57	81.4	2.2	1	12.0	4.77	41.1	122	85.4	312	178	51	28
2026	Crookston, MN	ND_GENESIS	2	40.3	94.6	49	82.6	2.1	1	10.2	4.47	46.6	103	75.0	302	162	45	54
2027	Crookston, MN	2MS20_3310-013	2	43.8	98.9	52	81.3	2.5	1	11.8	4.87	43.4	81	75.2	416	205	54	22
2028	Crookston, MN	TM19.080-001	2	49.4	98.5	48	83.2	2.5	1	12.5	5.62	46.3	87	106.4	295	260	52	24
2029	Crookston, MN	AAC_SYNERGY	2	38.7	94.9	51	83.0	2.3	1	10.7	5.21	50.0	112	100.8	117	215	50	36
2030	Crookston, MN	TM19.003-009	2	40.6	97.0	50	82.9	2.7	1	9.9	4.51	47.7	86	80.2	495	184	39	39
2031	Crookston, MN	2MS20_3314-010	2	41.9	96.5	52	81.9	1.9	1	10.8	4.35	41.5	114	76.7	347	133	45	50
2032		CONRAD MALT CHECK	2	40.4	97.7	88	84.2	2.0	1	12.5	5.28	43.7	137	103.6	135	231	65	29
2033	Crookston, MN	2MS20_3227-019	2	44.2	95.8	51	80.9	2.1	1	11.1	4.54	42.4	104	82.7	354	172	48	46
2034	Crookston, MN	2MS20_3830-006	2	42.7	98.4	48	81.1	2.3	1	11.2	4.60	43.3	105	69.4	386	176	51	47
2035	Crookston, MN	2MS20_3279-014	2	45.2	98.0	49	82.1	2.2	1	11.5	4.80	42.0	107	103.1	299	182	54	44
2036	Fargo, ND	Conlon	2	40.4	96.9	55	80.7	2.2	1	13.7	5.29	39.2	159	99.1	351	201	42	23
2037	Fargo, ND	Pinnacle	2	39.4	93.5	45	81.3	3.0	1	12.1	5.24	43.9	114	92.4	424	199	55	29
2038	Fargo, ND	ND_GENESIS	2	44.1	97.5	47	81.5	2.5	1	11.3	5.13	48.2	119	98.9	466	187	53	35
2039	Fargo, ND	AAC_SYNERGY	2	40.8	91.4	52	81.8	2.8	1	13.4	6.12	46.2	156	122.2	174	257	50	23
2040	Fargo, ND	2ND32529	2	42.8	97.6	53	83.4	2.9	1	11.0	5.48	54.3	105	111.5	146	225	53	39
2041	Fargo, ND	2ND42431	2	44.3	96.4	41	84.3	2.7	1	11.8	5.16	44.8	109	91.1	266	190	58	37
2042	Fargo, ND	2ND42445	2	44.3	98.2	44	83.3	2.8	1	11.8	5.07	43.6	113	84.5	200	183	58	37
2043	Fargo, ND	2ND42451	2	42.7	96.5	43	82.6	2.1	1	12.0	4.99	42.6	132	99.7	158	170	58	36
2044	Fargo, ND	2ND42456	2	47.2	98.7	44	82.4	2.7	1	12.3	5.54	46.3	129	105.8	168	225	63	24
2045	Fargo, ND	2ND42478	2	45.4	98.3	47	82.6	2.4	1	11.8	5.37	47.0	135	98.5	104	207	64	27
2046	Fargo, ND	2ND3487	2	46.1	97.5	42	82.4	2.7	1	11.7	5.23	47.0	119	99.9	315	195	53	30
2047	Fargo, ND	2ND42504	2	46.5	98.7	43	82.4	3.3	1	12.0	5.72	49.0	89	103.8	345	246	47	24
2048	Fargo, ND	2ND42507	2	43.4	97.6	45	82.7	4.9	1	11.5	6.17	54.4	111	110.6	35	300	55	38
2049	Fargo, ND	2ND42514	2	44.4	96.7	47	82.3	2.4	1	12.0	4.94	41.5	112	91.4	241	212	60	36
2050	Fargo, ND	2ND42538	2	42.5	97.4	44	82.2	2.7	1	10.8	4.91	47.3	88	91.4	248	193	44	32

2022 Crop Year Breeders' Submissions

Lab No.	Location	Variety or Selection	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agron)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (*ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)	Adjunct Quality Score	All Malt Quality Score
2051	Fargo, ND	CONLON	2	42.3	97.3	53	80.9	2.2	1	13.7	5.23	38.9	142	91.1	414	203	43	22
2052	Fargo, ND	PINNACLE	2	38.4	92.3	47	81.0	2.5	1	12.1	4.88	40.6	106	81.5	461	194	55	31
2053	Fargo, ND	ND GENESIS	2	42.3	96.1	48	82.0	2.4	1	11.0	5.00	47.6	120	102.7	449	195	48	35
2054	Fargo, ND	AAC SYNERGY	2	42.4	94.9	51	82.5	2.5	1	13.2	6.13	47.3	152	120.3	207	259	46	24
2055	Fargo, ND	2ND32529	2	41.5	96.0	53	84.0	2.5	1	10.9	5.26	49.4	118	113.6	162	222	49	31
2056	Fargo, ND	2ND41042	2	45.8	97.5	50	83.9	2.8	1	11.9	5.63	47.9	165	132.3	77	257	61	31
2057	Fargo, ND	2ND41050	2	42.7	94.2	46	82.8	2.9	1	10.7	5.75	55.6	119	132.6	107	263	49	35
2058	Fargo, ND	2ND41055	2	46.3	98.3	45	83.9	2.8	1	12.2	5.64	50.2	131	117.0	193	259	54	24
2059	Fargo, ND	2ND41060	2	42.1	97.4	49	84.0	2.4	1	11.7	5.37	48.2	124	120.9	95	245	65	31
2060	Fargo, ND	2ND41065	2	43.6	96.3	51	85.5	2.3	1	10.9	5.23	50.3	138	119.3	199	246	53	29
2061	Fargo, ND	2ND41095	2	41.7	92.2	46	83.8	2.9	1	11.1	5.43	50.4	130	118.9	28	254	64	35
2062	Fargo, ND	2ND41099	2	41.7	89.7	47	83.0	2.2	1	11.5	5.51	49.6	126	96.5	23	243	62	28
2063	Fargo, ND	CONRAD MALT CHECK	2	40.4	97.6	88	84.0	2.0	1	11.6	5.32	47.7	131	110.5	128	257	60	26
2064	Fargo, ND	2ND41100	2	41.1	94.8	49	83.8	2.3	1	11.2	5.39	48.3	104	100.7	283	252	54	35
2065	Fargo, ND	2ND41101	2	42.2	89.4	48	82.4	2.2	1	12.4	5.41	44.3	118	102.7	200	249	58	28
2066	Fargo, ND	2ND41103	2	44.2	92.9	49	84.0	2.4	1	11.3	5.46	52.6	117	111.6	76	251	62	39
2067	Fargo, ND	2ND41127	2	47.5	97.9	51	85.7	2.4	1	11.1	5.44	50.4	132	105.3	202	255	58	29
2068	Fargo, ND	2ND41128	2	48.3	98.8	48	84.5	1.9	1	10.6	4.89	47.6	119	94.4	233	192	48	35
2069	Fargo, ND	2ND41144	2	40.4	98.3	48	84.3	2.5	1	10.6	5.32	51.4	111	100.4	180	223	49	35
2070	Fargo, ND	2ND41145	2	46.2	98.1	47	84.5	2.6	1	11.1	5.17	46.6	130	97.0	219	237	63	29
2071	Fargo, ND	2ND41147	2	42.5	94.3	48	83.1	2.1	1	11.0	4.89	46.8	110	110.5	348	196	53	39
2072	Fargo, ND	2ND41184	2	42.3	95.4	43	81.4	2.4	1	12.7	5.32	42.2	127	115.2	201	221	63	24
2073	Fargo, ND	2ND41188	2	39.0	92.2	45	82.3	2.1	1	13.4	5.38	42.1	121	102.2	250	237	55	26
2074	Fargo, ND	2ND41255	2	41.2	95.3	47	83.0	2.7	1	11.3	5.49	49.5	123	95.8	127	250	60	31
2075	Fargo, ND	2ND41263	2	41.2	97.5	45	82.8	2.4	1	11.5	4.97	44.8	143	90.9	289	200	60	34
2076	Fargo, ND	2ND41297	2	41.3	97.8	51	84.6	3.0	1	11.0	5.40	51.1	130	100.2	39	243	64	35
2077	Fargo, ND	2ND41298	2	46.0	97.0	46	83.8	2.6	1	11.1	5.49	52.0	141	95.9	150	256	58	29
2078	Fargo, ND	2ND41314	2	43.2	94.1	46	82.0	2.3	1	11.7	5.19	45.6	136	91.3	366	217	63	24
2079	Fargo, ND	2ND41331	2	44.7	96.8	40	82.9	2.4	1	12.1	5.14	43.6	151	109.8	211	223	63	27
2080	Fargo, ND	2ND41334	2	43.2	97.9	47	84.2	2.0	1	11.4	4.91	44.4	138	92.9	121	206	64	35
2081	Fargo, ND	2ND41386	2	44.6	97.6	48	84.0	2.0	1	10.7	5.16	51.0	169	107.7	187	204	51	29
2082	Fargo, ND	2ND41428	2	42.7	97.0	51	84.1	2.4	1	11.1	5.26	48.5	111	107.2	218	230	55	36
2083	Fargo, ND	2ND41429	2	43.6	97.2	49	83.8	3.8	1	10.7	6.09	57.7	101	119.2	85	258	50	43
2084	Fargo, ND	2ND41437	2	44.6	98.0	50	84.2	3.7	1	11.4	6.15	55.0	101	117.7	162	268	48	36
2085	Fargo, ND	2ND41453	2	43.1	97.5	47	83.8	3.2	1	10.6	5.65	57.1	102	110.7	225	223	46	36
2086	Fargo, ND	2ND41460	2	42.4	96.9	50	84.2	2.7	1	11.3	5.41	48.3	119	103.0	254	207	53	32
2087	Fargo, ND	2ND41464	2	47.9	98.8	50	83.2	5.3	2	11.5	7.13	63.9	113	118.8	145	325	50	33
2088	Fargo, ND	2ND41476	2	46.5	98.3	47	83.1	3.2	1	11.3	6.24	59.6	139	120.2	71	254	58	36
2089	Fargo, ND	2ND41497	2	41.9	95.6	49	82.8	2.3	1	11.7	5.22	44.7	117	108.5	339	181	57	32
2090	Fargo, ND	2ND41514	2	44.7	96.0	45	83.7	2.6	1	12.1	6.00	50.7	140	122.8	81	244	58	31
2091	Fargo, ND	2ND41523	2	45.8	94.6	44	83.5	3.0	1	11.6	6.14	54.9	142	116.1	45	249	58	31
2092	Fargo, ND	2ND41526	2	45.5	95.1	45	84.1	2.8	1	12.1	5.96	50.9	129	109.5	197	240	54	24
2093	Fargo, ND	2ND41534	2	42.8	95.7	45	84.2	3.0	1	11.0	6.07	60.4	111	117.8	312	263	43	36
2094	Fargo, ND	CONRAD MALT CHECK	2	40.9	98.1	88	84.2	2.0	1	12.3	5.78	49.8	130	113.7	169	241	53	23
2095	Fargo, ND	2ND41585	2	46.5	97.5	49	82.6	2.4	1	12.8	5.81	46.1	156	95.5	144	207	60	27
2096	St. Paul, MN	TM18.211-013	2	41.8	92.0	56	81.3	n.d.	3	12.3	5.24	44.3	118	73.1	430	155	52	32
2097	St. Paul, MN	S2M191	2	47.8	96.0	63	83.0	2.8	1	13.5	6.62	49.4	158	115.8	127	266	49	27
2098	St. Paul, MN	TM18.211-018	2	38.4	89.9	60	78.7	2.3	2	13.1	4.84	38.7	143	57.4	346	143	36	12
2099	St. Paul, MN	S2M193	2	41.3	94.7	59	79.4	2.0	1	13.8	5.49	40.6	136	81.4	470	191	47	21
2100	St. Paul, MN	2MS19_3351-018	2	38.5	94.3	57	79.6	2.8	2	15.8	6.57	44.3	122	95.7	403	280	39	16
2101	St. Paul, MN	CONLON	2	39.0	93.0	64	77.1	2.3	1	16.3	6.20	38.6	173	81.2	464	223	28	14
2102	St. Paul, MN	TM18.177-005	2	37.9	92.4	56	81.5	2.2	1	13.6	5.97	44.6	124	109.3	394	244	44	17
2103	St. Paul, MN	TM18.140-002	2	37.8	89.0	58	81.0	1.9	1	13.8	5.56	40.4	174	100.8	348	198	44	20
2104	St. Paul, MN	2MS19_3389-004	2	42.5	96.8	55	80.0	2.8	1	13.7	6.75	49.5	159	114.8	226	299	38	17
2105	St. Paul, MN	TM18.056-043	2	39.4	96.6	50	80.4	2.3	1	13.6	5.97	44.3	157	101.7	167	252	43	19
2106	St. Paul, MN	S2M194	2	42.1	97.9	53	79.7	2.5	1	14.3	6.19	44.2	166	110.9	501	249	43	20
2107	St. Paul, MN	S2M195	2	40.8	92.8	60	80.8	2.2	1	14.4	6.25	45.9	188	117.3	379	254	42	18
2108	St. Paul, MN	PINNACLE	2	40.8	93.6	61	80.1	2.0	1	13.8	5.77	42.9	127	77.0	322	207	43	23
2109	St. Paul, MN	QUEST	6	31.4	81.5	68	78.2	1.9	1	15.7	6.50	43.1	248	96.3	324	251	39	N/A
2110	St. Paul, MN	S2M196	2	40.1	93.7	57	79.6	1.9	1	14.1	5.58	40.5	155	88.3	286	213	49	21
2111	St. Paul, MN	S2M192	2	39.0	90.3	57	80.0	2.0	1	13.9	5.99	43.4	150	105.4	346	220	43	19
2112	St. Paul, MN	TM18.140-035	2	37.1	91.4	56	81.1	2.2	1	13.6	5.65	43.5	150	96.9	350	207	42	17
2113	St. Paul, MN	ND_GENESIS	2	38.7	92.7	56	79.4	2.2	1	15.0	6.27	42.4	190	99.9	356	235	37	16
2114	St. Paul, MN	2MS20_3279-023	2	39.9	94.9	59	80.5	2.4	1	14.8	6.83	46.3	140	128.2	360	304	40	16
2115	St. Paul, MN	2MS20_3290-026	2	41.7	95.4	51	80.3	2.9	1	14.2	6.43	46.0	155	119.1	392	266	42	18
2116	St. Paul, MN	2MS20_3227-003	2	43.6	96.4	59	81.0	2.2	1	13.4	6.18	47.8	142	112.0	303	253	43	19

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Lab No.	Location	Variety or Selection	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agrton)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (*ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)	Adjunct Quality Score	All Malt Quality Score
2117	St. Paul, MN	2MS20_3808-005	2	41.4	96.1	52	81.1	1.9	1	13.9	5.71	42.2	146	103.8	390	201	46	23
2118	St. Paul, MN	PINNACLE	2	43.3	96.5	53	80.2	2.3	1	13.5	4.48	34.8	111	87.5	326	203	41	36
2119	St. Paul, MN	2MS20_3830-006	2	42.1	97.3	56	79.0	2.1	1	14.1	4.58	33.7	126	81.8	409	217	38	20
2120	St. Paul, MN	CONLON	2	43.9	96.6	55	77.0	2.7	1	16.9	5.40	32.4	168	93.4	359	259	38	17
2121	St. Paul, MN	2MS20_3227-019	2	42.6	96.2	59	81.3	2.2	1	12.2	4.72	40.4	115	98.6	337	226	56	31
2122	St. Paul, MN	ND_GENESIS	2	43.9	97.1	56	80.1	2.1	1	13.5	4.77	35.4	152	95.9	272	230	41	22
2123	St. Paul, MN	TM19.080-001	2	43.2	93.6	58	80.5	3.1	1	14.9	5.49	37.6	98	112.3	294	297	38	25
2124	St. Paul, MN	TM19.023-002	2	43.7	95.8	59	78.9	1.6	1	15.1	4.27	28.3	160	52.2	417	165	33	29
2125		CONRAD MALT CHECK	2	40.4	97.6	88	84.3	2.2	1	12.4	4.70	40.6	130	102.0	155	235	58	31
2126	St. Paul, MN	TM19.003-008	2	38.6	94.9	58	80.9	2.5	1	14.3	5.22	38.2	126	102.9	426	291	42	19
2127	St. Paul, MN	AAC_SYNERGY	2	41.2	95.3	46	80.0	2.6	1	14.7	5.56	38.1	176	116.5	66	288	51	26
2128	St. Paul, MN	2MS20_3246-010	2	40.9	94.7	55	81.1	2.6	1	13.8	5.27	39.1	116	91.4	322	267	44	26
2129	St. Paul, MN	2MS20_3310-018	2	39.9	97.5	54	81.0	2.1	1	12.9	4.50	35.0	76	96.0	203	204	39	22
2130	St. Paul, MN	2MS20_3279-014	2	44.2	97.4	57	81.5	2.5	1	13.3	5.14	39.7	100	114.6	323	262	50	31
2131	St. Paul, MN	2MS20_3272-021	2	44.8	97.5	57	79.7	1.9	1	12.9	4.48	35.4	124	73.2	176	177	46	37
2132	St. Paul, MN	2MS20_3310-013	2	42.0	96.5	54	80.2	2.5	1	13.4	4.76	36.5	88	86.7	373	234	38	21
2133	St. Paul, MN	2MS20_3314-010	2	43.0	97.2	58	80.1	2.1	1	13.3	4.74	37.1	116	97.9	364	215	43	25
2134	St. Paul, MN	2MS20_3227-028	2	44.4	95.0	58	80.0	2.5	1	13.3	5.21	40.4	126	106.1	298	271	55	24
2135	St. Paul, MN	TM19.003-009	2	45.1	96.5	56	82.7	3.1	1	12.7	5.02	39.9	107	103.2	362	265	55	36
2136	Ithaca NY	Esma	2	45.6	98.8	56	83.2	2.1	1	8.2	3.81	48.7	75	71.1	37	161	41	46
2137	Ithaca NY	Explorer	2	46.0	99.3	53	82.2	1.9	1	8.9	3.81	43.9	69	81.0	39	165	46	46
2138	Ithaca NY	CU162	2	46.5	99.0	64	83.1	1.6	1	9.5	3.89	42.8	72	79.7	200	151	39	41
2139	Ithaca NY	BC Leandra	2	42.3	96.7	54	81.5	2.2	1	9.8	3.99	45.2	95	93.8	37	169	46	54
2140	Ithaca NY	ND Genesis	2	44.3	98.1	63	82.2	1.8	1	10.5	4.06	42.1	102	78.0	313	153	46	56
2141	Ithaca NY	CU22	2	43.0	98.4	67	82.1	1.7	1	10.2	4.10	44.2	92	84.0	187	169	42	51
2142	Ithaca NY	CU142	2	44.5	99.1	62	82.4	1.6	1	10.3	3.88	40.4	96	71.7	216	143	39	48
2143	Ithaca NY	Excelsior Gold	2	47.6	99.4	62	81.4	1.6	1	10.7	4.21	41.0	106	78.2	108	162	49	53
2144	Ithaca NY	BC Lexy	2	43.4	98.8	56	82.9	2.6	1	8.7	3.88	45.9	92	84.2	22	147	46	39
2145	Ithaca NY	CU107	2	39.9	96.3	67	81.2	1.4	1	10.3	3.69	37.6	100	66.0	284	133	31	38
2146	Ithaca NY	CU29	2	40.9	97.5	65	82.1	1.8	1	10.1	4.04	43.6	85	87.6	354	169	41	46
2147	Ithaca NY	Eifel	2	42.9	97.4	60	83.4	1.8	1	9.7	3.70	39.9	77	73.2	267	141	34	40
2148	Ithaca NY	CU4	2	41.2	98.6	67	81.0	1.5	1	9.1	3.68	41.8	90	58.4	380	128	38	26
2149	Ithaca NY	CU110	2	42.1	97.5	66	81.5	1.4	1	10.8	3.75	37.0	97	61.8	443	128	34	28
2150	Ithaca NY	CU20	2	41.7	96.6	66	80.5	1.5	1	10.2	3.89	38.8	93	58.0	351	139	30	32
2151	Ithaca NY	CU75	2	40.5	94.5	64	80.0	1.6	1	9.7	3.84	41.4	100	84.2	259	137	35	32
2152	Ithaca NY	Quest	6	36.0	95.9	63	80.8	1.7	1	11.4	4.38	40.9	124	85.7	301	205	41	N/A
2153	Ithaca NY	CU198	2	44.0	97.1	63	81.2	1.7	1	11.1	4.00	39.5	106	70.4	151	156	46	49
2154	Ithaca NY	CU193	2	40.3	95.7	65	80.1	1.5	1	11.5	4.74	43.1	103	81.7	353	150	47	31
2155	Ithaca NY	Newdale	2	39.4	90.9	68	80.8	1.6	1	11.3	5.19	50.1	101	98.2	279	170	44	35
2156		CONRAD MALT CHECK	2	40.7	97.5	88	84.1	2.2	2	12.0	5.77	51.1	140	114.0	130	224	55	25
2157	Ithaca NY	AAC Synergy	2	41.2	95.7	65	81.8	2.0	1	11.5	5.38	49.6	96	103.6	267	196	48	34
2158	Ithaca NY	CU36	2	40.8	94.2	66	79.3	1.4	1	11.4	4.57	42.4	82	74.1	364	137	40	32
2159	Ithaca NY	CU143	2	43.2	96.4	67	80.6	1.4	1	11.1	4.56	41.6	94	69.4	430	135	44	38
2160	Ithaca NY	CU235	2	45.6	97.7	60	80.0	1.5	1	10.7	4.86	48.3	113	73.8	133	154	45	42
2161	Ithaca NY	CU127	2	43.0	94.9	60	81.0	1.9	2	10.8	4.71	45.8	68	79.9	408	157	38	30
2162	Ithaca NY	BC Ellinor	2	40.4	97.6	56	81.5	1.7	1	10.7	4.65	47.1	76	78.6	166	155	36	33
2163	Ithaca NY	CU54	2	39.1	92.1	61	79.5	1.4	1	11.0	4.22	39.9	80	52.9	422	110	36	26
2164	Carrington, ND	CONLON	2	44.0	99.4	49	82.4	1.8	1	11.7	5.30	45.8	156	93.4	299	186	61	27
2165	Carrington, ND	PINNACLE	2	44.0	99.0	43	83.1	2.1	1	10.8	5.17	50.7	128	92.2	216	188	51	32
2166	Carrington, ND	ND GENESIS	2	40.9	98.1	45	82.9	2.0	1	11.4	5.31	47.0	128	93.6	281	195	55	31
2167	Carrington, ND	AAC SYNERGY	2	40.9	98.1	50	83.6	2.5	1	11.7	5.98	53.1	117	107.1	144	248	53	29
2168	Carrington, ND	2ND32529	2	42.3	97.8	51	84.1	3.1	1	10.0	5.77	60.4	111	103.7	82	250	53	48
2169	Carrington, ND	2ND41042	2	47.8	99.2	48	83.5	2.6	1	11.7	6.13	55.1	165	111.9	41	259	58	31
2170	Carrington, ND	2ND41050	2	41.8	97.6	47	84.2	2.5	1	10.4	5.90	58.9	111	113.0	70	255	52	47
2171	Carrington, ND	2ND41055	2	46.8	99.2	38	83.2	2.5	1	11.6	6.09	56.2	151	109.1	49	261	58	31
2172	Carrington, ND	2ND41060	2	42.7	98.7	43	83.4	2.3	1	11.7	5.88	54.7	143	112.9	55	249	61	31
2173	Carrington, ND	2ND41065	2	44.4	98.6	49	86.0	2.4	1	11.6	5.95	54.9	150	113.9	48	254	61	31
2174	Carrington, ND	2ND41095	2	42.8	96.9	41	85.0	2.3	1	10.3	5.55	59.0	120	110.1	18	241	60	41
2175	Carrington, ND	2ND41099	2	43.6	99.4	45	83.6	2.2	1	10.5	5.70	55.9	126	102.0	10	249	56	36
2176	Carrington, ND	2ND41100	2	45.3	97.7	43	84.3	2.1	1	11.1	5.66	53.8	110	93.0	117	254	54	39
2177	Carrington, ND	2ND41101	2	45.1	98.5	45	84.7	2.1	1	10.0	5.37	55.9	104	95.0	66	226	57	48
2178	Carrington, ND	2ND41103	2	45.8	99.1	44	84.8	2.3	1	11.0	5.50	52.3	108	105.8	28	224	57	43
2179	Carrington, ND	2ND41127	2	44.4	99.1	47	85.3	1.8	1	11.0	5.56	52.8	154	103.4	74	224	65	36
2180	Carrington, ND	2ND41128	2	45.8	99.2	46	83.6	1.8	1	11.5	5.36	50.1	136	92.2	91	196	63	39
2181	Carrington, ND	2ND41144	2	39.7	99.0	44	84.0	2.1	1	11.2	5.63	53.3	130	97.2	85	218	58	33
2182	Carrington, ND	2ND41145	2	43.8	99.0	43	84.5	2.4	1	11.3	5.74	51.2	151	95.7	153	229	54	29

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Lab No.	Location	Variety or Selection	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agrton)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T	DP (*ASBC)	Alpha-amylase (20*DU)	Beta-glucan (ppm)	FAN (ppm)	Adjunct Quality Score	All Malt Quality Score
2183	Carrington, ND	2ND41147	2	45.1	99.1	45	83.6	1.9	1	10.8	5.26	49.1	125	110.2	193	205	51	29
2184	Carrington, ND	2ND41184	2	43.9	99.2	40	82.8	2.4	1	12.3	5.93	49.7	149	119.0	34	251	61	31
2185	Carrington, ND	2ND41188	2	43.5	99.6	44	83.1	2.3	1	13.1	5.86	46.7	125	103.0	87	248	61	31
2186	Carrington, ND	2ND41255	2	41.4	98.4	44	83.7	2.6	1	10.9	5.76	53.8	132	103.1	28	240	55	35
2187		CONRAD MALT CHECK	2	41.0	97.7	87	84.3	2.1	2	12.0	5.79	52.6	118	105.8	118	240	52	28
2188	Carrington, ND	2ND41263	2	39.5	98.4	43	83.6	2.0	2	11.4	5.53	52.3	167	101.9	61	202	59	32
2189	Carrington, ND	2ND41297	2	43.3	99.2	44	83.8	2.8	1	11.0	5.83	56.6	125	89.6	18	257	56	36
2190	Carrington, ND	2ND41298	2	46.2	99.1	43	83.2	3.1	1	11.0	5.47	53.0	159	92.4	25	265	65	36
2191	Carrington, ND	2ND41314	2	43.8	97.1	45	83.4	2.9	1	10.6	5.12	49.6	129	101.3	77	259	60	36
2192	Carrington, ND	2ND41331	2	45.9	98.7	40	82.3	2.6	1	11.6	5.17	46.6	144	98.9	27	232	70	31
2193	Carrington, ND	2ND41334	2	41.8	98.8	42	84.0	2.8	1	10.9	5.07	47.4	126	83.8	16	248	59	35
2194	Carrington, ND	2ND41386	2	43.6	98.9	44	83.1	2.3	1	10.6	4.91	48.0	158	95.0	67	208	58	36
2195	Carrington, ND	2ND41428	2	45.4	99.1	47	83.7	4.7	1	11.1	5.91	58.1	115	106.3	23	294	58	43
2196	Carrington, ND	2ND41429	2	44.2	98.5	44	83.5	5.0	1	10.7	5.83	60.2	101	104.4	16	295	53	43
2197	Carrington, ND	2ND41437	2	42.5	98.4	48	84.0	3.6	1	10.5	5.47	55.0	122	102.7	26	276	60	36
2198	Carrington, ND	2ND41453	2	43.6	98.5	48	84.5	3.4	1	11.1	5.51	53.9	128	102.1	39	268	65	36
2199	Carrington, ND	2ND41460	2	44.6	99.0	47	82.9	3.3	1	11.0	5.39	53.5	127	104.2	31	284	65	36
2200	Carrington, ND	2ND41464	2	45.7	98.5	49	83.5	4.5	1	11.1	5.91	56.2	116	107.3	45	312	58	39
2201	Carrington, ND	2ND41476	2	45.7	98.9	47	82.8	3.6	1	11.5	5.73	53.0	142	111.8	14	283	61	31
2202	Carrington, ND	2ND41497	2	43.0	99.1	46	84.6	3.0	1	10.9	5.33	51.0	135	110.7	17	242	60	36
2203	Carrington, ND	2ND41514	2	46.8	99.4	43	82.5	2.8	1	11.5	5.62	52.6	144	105.8	10	268	61	31
2204	Carrington, ND	2ND41523	2	47.0	98.8	41	83.7	3.3	1	11.1	5.64	55.4	132	102.0	5	276	61	36
2205	Carrington, ND	2ND41526	2	46.3	99.2	43	83.6	2.8	1	11.5	5.69	53.2	124	97.9	12	281	61	36
2206	Carrington, ND	2ND41534	2	44.2	98.4	40	83.9	3.6	1	11.2	5.94	57.3	114	109.8	15	315	58	43
2207	Carrington, ND	2ND41585	2	44.5	99.3	43	82.2	2.7	1	12.7	5.57	46.8	187	87.2	15	243	70	31
2208	Ithaca NY	BS908-14	2	48.1	99.5	54	81.8	1.9	1	9.7	4.37	46.5	105	45.4	21	161	50	55
2209	Ithaca NY	DH130935 (Fac)	2	45.9	99.3	40	81.5	3.0	2	9.6	4.23	48.3	108	54.4	40	143	47	50
2210	Ithaca NY	DH141132	2	46.6	99.2	57	82.1	1.9	1	8.3	4.12	52.5	120	43.8	29	140	45	47
2211	Ithaca NY	LCSVioletta	2	45.1	99.0	54	82.3	1.7	1	9.6	4.34	49.5	143	57.6	25	155	51	48
2212	Ithaca NY	BS813-112	2	47.8	98.5	50	81.5	2.0	1	9.1	4.26	48.2	111	43.7	28	144	45	46
2213	Ithaca NY	BS814-133	2	51.0	99.4	50	81.9	1.9	1	9.9	4.46	49.5	128	40.3	15	165	48	53
2214	Ithaca NY	BS812-80	2	45.4	97.5	59	82.1	1.7	1	9.0	4.56	52.8	127	58.5	8	170	51	44
2215	Ithaca NY	BS713-94	2	51.0	99.7	55	82.5	1.6	1	10.4	4.57	45.8	120	53.5	25	162	53	52
2216	Ithaca NY	BS814-124	2	48.0	99.2	61	81.5	2.1	1	10.4	4.09	42.9	127	35.1	46	124	49	47
2217	Ithaca NY	BS811-43	2	42.9	98.2	59	81.3	1.9	1	8.5	3.86	46.5	103	32.0	29	108	43	36
2218		CONRAD MALT CHECK	2	40.8	97.5	88	84.6	2.3	1	11.9	5.64	49.6	129	99.6	68	247	60	30
2219	Ithaca NY	DH131738 (Fac)	2	47.7	99.2	55	81.2	1.6	1	11.2	4.44	41.2	108	53.2	123	141	54	47
2220	Ithaca NY	BC Clemetine	2	51.2	97.6	63	80.7	2.8	2	9.8	4.06	45.0	101	34.3	308	108	35	39
2221	Ithaca NY	DH130910 (Fac)	2	47.6	99.0	57	81.7	1.6	1	10.8	4.64	44.3	130	44.2	79	158	53	47
2222	Ithaca NY	KWS Scala	2	46.8	99.6	56	81.9	1.8	1	8.9	4.25	51.1	118	63.8	11	139	48	47
2223	Ithaca NY	SVTepee (209-66)	2	44.2	97.2	55	82.0	1.6	1	9.3	4.38	51.5	153	53.1	14	147	51	44
2224	Ithaca NY	BC Fay	2	45.9	99.3	67	81.8	1.5	1	9.9	4.19	46.7	130	45.7	40	123	53	46
2225	Ithaca NY	BS613-9	2	48.4	98.6	51	81.8	1.5	1	10.8	4.66	46.1	148	46.9	83	155	53	44
2226	Ithaca NY	BS812-48	2	44.1	95.8	58	81.7	1.7	1	8.8	4.20	50.6	113	40.7	31	136	45	51
2227	Ithaca NY	BS811-34	2	45.3	98.9	50	81.8	1.8	1	8.5	4.36	52.8	116	42.2	42	142	45	47
2228	Ithaca NY	BS710-42	2	46.6	99.5	59	82.1	2.0	1	9.8	4.75	53.8	120	58.3	89	176	51	46
2229	Ithaca NY	BS813-117	2	47.8	98.1	59	81.1	1.9	1	9.6	4.46	51.6	109	44.9	50	155	45	50
2230	Ithaca NY	BS813-98	2	52.3	98.4	64	82.1	1.7	1	10.4	4.90	49.9	137	48.6	29	187	55	42
2231	Ithaca NY	BS812-57	2	53.6	99.4	53	81.6	1.9	1	10.1	4.81	48.3	128	43.0	31	173	52	46
2232	Ithaca NY	BS812-52	2	48.0	98.2	55	81.7	1.8	1	9.9	4.72	48.8	134	44.5	13	174	48	46
2233	Ithaca NY	BS814-121	2	44.8	99.0	46	81.2	1.9	1	9.4	4.49	48.4	120	50.9	12	160	51	43
2234	Ithaca NY	LCS Calypso	2	50.4	98.5	52	82.3	1.9	1	9.6	4.24	47.3	132	44.4	89	141	48	44
2235	Ithaca NY	BS616-78	2	48.4	99.3	48	81.7	2.1	1	10.1	4.54	46.7	132	51.8	80	164	56	49
2236	Ithaca NY	BS613-12	2	43.5	99.2	52	81.6	2.0	1	9.8	4.20	47.4	95	38.9	113	126	33	37
2237	Ithaca NY	BS812-57	2	50.5	98.7	66	81.0	1.5	1	13.7	5.60	42.9	225	47.5	92	198	48	32
2238	Ithaca NY	BS713-94	2	48.9	98.7	62	83.1	1.7	1	12.2	5.45	48.3	208	69.4	28	211	65	34
2239	Ithaca NY	BS613-9	2	44.9	94.9	65	80.5	1.5	1	13.4	5.37	41.2	217	56.0	85	201	60	29
2240	Ithaca NY	DH131738 (Fac)	2	47.9	99.1	66	82.8	1.6	1	13.0	5.16	40.2	166	70.6	141	189	64	38
2241	Ithaca NY	BC Clemetine	2	46.5	96.1	63	79.6	1.7	1	13.2	4.71	36.8	190	46.8	334	143	38	21
2242	Ithaca NY	LCS Calypso	2	45.7	67.8	51	81.3	1.6	1	13.1	4.86	38.9	216	56.6	172	162	43	22
2243	Ithaca NY	BS908-14	2	44.8	98.5	63	81.7	1.6	1	12.4	5.11	42.7	169	50.1	76	194	68	37
2244	Ithaca NY	BS812-48	2	41.0	90.5	62	80.4	1.6	1	12.4	4.91	41.2	164	50.7	87	175	61	35
2245	Ithaca NY	BS811-34	2	40.9	93.6	60	80.6	1.6	1	12.8	5.24	42.8	188	47.4	146	180	54	31
2246	Ithaca NY	DH130910 (Fac)	2	48.9	98.8	67	82.0	1.5	1	12.9	5.44	45.3	189	49.6	73	209	65	29
2247	Ithaca NY	BS616-78	2	50.2	99.5	52	82.3	1.7	1	12.5	5.02	40.9	176	65.6	99	171	65	46
2248	Ithaca NY	BS813-98	2	47.6	97.7	68	82.6	1.5	1	12.3	5.50	46.7	191	57.8	51	213	70	29

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Lab No.	Location	Variety or Selection	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agron)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (*ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)	Adjunct Quality Score	All Malt Quality Score
2249		CONRAD MALT CHECK	2	41.3	97.8	88	83.9	2.2	1	11.4	5.77	52.8	129	109.6	139	256	56	31
2250	Ithaca NY	BS813-117	2	46.6	95.9	65	80.5	1.5	1	13.1	5.32	41.8	200	54.8	105	198	56	28
2251	Ithaca NY	SYTepee (209-66)	2	39.0	91.1	60	80.3	1.6	1	13.3	5.31	42.2	205	57.0	161	198	50	22
2252	Ithaca NY	B5710-42	2	40.0	96.4	59	80.9	1.7	1	13.7	5.65	42.3	216	68.2	146	198	44	30
2253	Ithaca NY	BS814-121	2	43.0	96.3	53	81.8	1.7	1	11.9	5.31	47.9	171	59.0	57	196	63	32
2254	Ithaca NY	BS812-80	2	42.5	94.1	68	81.8	1.7	1	11.8	5.75	50.1	192	73.5	24	232	61	34
2255	Ithaca NY	LCSVioletta	2	43.6	97.9	55	81.8	1.7	1	12.8	5.35	42.5	217	66.9	200	189	61	35
2256	Ithaca NY	KWSScala	2	46.4	98.9	59	83.5	1.6	1	11.2	5.05	47.8	174	72.6	47	179	60	46
2257	Ithaca NY	DH130935 (Fac)	2	44.0	98.3	48	82.3	2.1	2	12.0	4.98	44.6	142	75.2	170	177	57	33
2258	Ithaca NY	BC Fay	2	41.6	97.5	61	81.2	1.5	1	12.3	5.05	42.1	202	62.9	96	171	64	35
2259	Ithaca NY	BS814-124	2	46.6	98.3	66	82.0	1.3	1	12.5	4.93	41.2	205	50.5	99	166	65	41
2260	Ithaca NY	BS812-52	2	45.5	96.6	60	82.2	1.5	1	12.2	5.53	46.8	207	49.5	45	209	65	29
2261	Ithaca NY	BS813-112	2	41.3	93.7	64	81.3	1.4	2	11.7	5.21	45.6	174	58.2	132	183	62	21
2262	Ithaca NY	BS811-43	2	37.6	92.1	66	80.8	1.5	2	11.6	4.73	43.5	157	39.8	210	154	38	21
2263	Ithaca NY	BS613-12	2	45.1	98.8	58	82.5	1.7	1	11.4	4.73	45.3	138	55.7	146	159	57	37
2264	Ithaca NY	DH141132	2	39.6	94.7	64	79.6	1.7	1	12.8	5.30	44.1	210	60.1	271	198	55	18
2265	Ithaca NY	BS814-133	2	49.2	98.9	64	82.2	1.6	1	12.1	4.56	38.9	187	51.5	47	211	61	35
2266	Ithaca NY	BS812-50	2	47.0	97.3	59	81.9	1.5	1	9.7	3.93	44.3	130	45.0	29	157	50	47
2267	Ithaca NY	BS811-43	2	38.8	99.0	52	80.9	1.8	1	7.7	3.76	49.4	98	41.4	27	162	32	36
2268	Ithaca NY	BS811-31	2	42.7	99.7	52	81.2	1.8	1	8.4	3.94	48.8	102	49.1	15	163	42	46
2269	Ithaca NY	17024-2-45	2	46.1	99.2	51	81.7	1.6	1	9.8	3.88	41.9	146	40.9	46	155	50	51
2270	Ithaca NY	BS811-33	2	46.3	98.4	58	82.8	1.5	1	9.2	4.06	48.4	138	47.3	48	180	51	40
2271	Ithaca NY	17024-2-31	2	49.5	99.6	55	82.3	1.5	1	10.8	4.43	45.0	125	53.9	18	201	59	44
2272	Ithaca NY	17021-3-41	2	50.2	99.3	56	81.5	1.7	1	9.4	3.99	44.0	119	46.8	66	156	47	50
2273	Minot, ND	CONLON	2	44.9	98.8	51	80.2	1.8	1	13.8	4.58	34.7	143	78.3	167	191	39	28
2274	Minot, ND	PINNACLE	2	45.5	97.9	47	80.7	1.7	1	12.2	4.23	37.4	126	66.3	136	168	49	42
2275	Minot, ND	ND GENESIS	2	42.9	97.4	49	80.9	1.9	1	11.4	4.48	41.1	135	88.2	103	194	57	42
2276	Minot, ND	AAC SYNERGY	2	42.4	97.4	51	81.3	2.6	1	13.6	5.39	39.9	152	110.1	42	254	55	31
2277	Minot, ND	2ND32529	2	44.9	98.3	52	82.8	2.4	1	11.9	4.81	41.0	131	95.2	57	224	70	36
2278	Minot, ND	2ND41042	2	49.7	99.1	51	81.5	2.4	1	13.2	5.05	41.5	174	106.1	74	238	65	31
2279	Minot, ND	2ND41050	2	45.2	97.2	49	82.5	2.9	1	12.0	5.22	45.1	117	111.0	26	267	67	34
2280		CONRAD MALT CHECK	2	40.8	98.4	88	84.0	2.2	1	11.7	5.05	46.7	122	102.9	75	250	69	30
2281	Minot, ND	2ND41055	2	49.7	99.0	48	81.1	2.6	1	13.2	5.23	41.0	154	98.5	55	250	65	31
2282	Minot, ND	2ND41060	2	45.8	98.9	50	82.2	2.3	1	12.3	5.12	44.5	140	107.7	51	252	70	34
2283	Minot, ND	2ND41065	2	46.8	98.1	55	83.3	2.1	1	11.5	4.96	45.6	150	108.5	52	234	70	31
2284	Minot, ND	2ND41095	2	46.2	98.5	44	82.4	2.1	1	11.8	4.93	44.0	130	97.8	13	227	70	34
2285	Minot, ND	2ND41099	2	47.7	97.6	46	81.6	2.0	1	11.2	4.87	44.3	128	86.0	10	228	70	39
2286	Minot, ND	2ND41100	2	46.3	98.5	48	82.5	2.2	1	12.0	5.04	43.4	109	82.4	152	248	60	34
2287	Minot, ND	2ND41101	2	48.8	98.2	51	82.3	2.4	1	11.9	4.92	44.2	110	88.2	54	239	67	41
2288	Minot, ND	2ND41103	2	49.4	97.3	51	82.5	2.5	1	11.6	4.81	44.0	115	91.0	59	224	67	41
2289	Minot, ND	2ND41127	2	47.5	98.2	53	83.0	2.1	1	12.0	5.30	46.0	147	88.4	165	204	61	24
2290	Minot, ND	2ND41128	2	50.1	99.2	51	82.3	1.9	1	12.2	5.03	43.0	134	81.6	136	177	61	37
2291	Minot, ND	2ND41144	2	41.6	98.6	46	81.7	2.4	1	12.5	5.38	46.5	123	82.8	79	204	67	30
2292	Minot, ND	2ND41145	2	45.9	98.4	49	82.1	2.2	1	12.1	5.39	44.8	147	74.7	149	197	64	36
2293	Minot, ND	2ND41147	2	48.6	98.7	51	81.7	2.1	1	12.1	5.03	42.7	111	98.8	177	184	58	39
2294	Minot, ND	2ND41184	2	45.7	98.4	43	80.8	2.7	1	13.4	5.68	42.9	132	99.2	40	227	58	31
2295	Minot, ND	2ND41188	2	46.5	99.1	50	81.3	2.2	1	13.8	5.58	43.4	136	89.0	84	227	60	29
2296	Minot, ND	2ND41255	2	43.2	96.8	46	82.3	2.3	1	12.0	5.58	48.0	146	92.9	55	223	65	31
2297	Minot, ND	2ND41263	2	42.8	99.0	47	80.8	2.0	1	12.7	5.23	44.3	186	88.6	121	186	61	28
2298	Minot, ND	2ND41297	2	46.9	98.1	51	82.3	2.5	1	12.2	5.80	51.2	151	99.0	14	245	61	31
2299	Minot, ND	2ND41298	2	48.4	99.4	49	81.7	2.3	1	12.5	5.47	44.6	162	79.8	90	218	70	34
2300	Minot, ND	2ND41314	2	50.0	98.7	51	81.4	2.1	1	11.9	5.21	47.8	138	82.8	210	205	56	19
2301	Minot, ND	2ND41331	2	47.9	98.7	46	80.8	2.2	1	13.1	5.48	42.2	143	92.2	60	218	62	31
2302	Minot, ND	2ND41334	2	46.3	98.8	46	81.9	2.1	1	12.7	5.61	44.5	150	86.6	25	228	66	34
2303	Minot, ND	2ND41386	2	48.0	98.1	53	81.6	2.1	1	12.2	5.44	47.9	162	89.1	93	205	63	31
2304	Minot, ND	2ND41428	2	45.8	98.1	53	82.2	2.5	1	12.4	5.49	46.2	132	91.4	50	222	70	31
2305	Minot, ND	2ND41429	2	46.5	97.9	52	81.6	2.6	1	12.4	5.46	46.9	142	96.7	101	211	66	27
2306	Minot, ND	2ND41437	2	47.2	98.5	53	83.0	2.4	1	11.9	5.48	47.4	133	96.5	90	206	63	31
2307	Minot, ND	2ND41453	2	47.7	98.0	55	82.0	2.3	1	12.6	5.48	45.3	158	102.3	70	211	70	31
2308	Minot, ND	2ND41460	2	47.7	99.0	49	82.2	2.6	1	12.1	5.66	49.1	137	93.0	84	230	61	31
2309	Minot, ND	2ND41464	2	48.8	97.6	52	82.0	3.2	1	13.1	6.24	48.6	167	108.9	75	265	53	31
2310	Minot, ND	2ND41476	2	49.1	99.2	50	81.6	2.3	1	13.1	5.66	45.5	165	99.5	25	229	61	31
2311		CONRAD MALT CHECK	2	40.9	98.2	89	84.6	2.1	1	11.4	5.60	52.2	142	109.7	120	243	56	31
2312	Minot, ND	2ND41497	2	46.2	97.6	51	82.3	2.0	1	12.4	4.99	42.8	126	90.2	123	177	61	39
2313	Minot, ND	2ND41514	2	49.9	99.2	46	80.7	2.6	1	12.7	5.25	44.1	134	98.4	61	235	67	29
2314	Minot, ND	2ND41523	2	49.2	98.5	46	82.3	2.6	1	11.6	5.24	46.8	129	88.7	17	247	70	31

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Lab No.	Location	Variety or Selection	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agtron)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (*ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)	Adjunct Quality Score	All Malt Quality Score
2315	Minot, ND	2ND41526	2	48.0	98.4	46	82.4	2.5	1	11.9	5.16	46.1	128	86.2	58	242	70	31
2316	Minot, ND	2ND41534	2	46.2	98.8	47	82.7	2.7	1	12.0	5.38	45.4	116	94.8	88	269	67	34
2317	Minot, ND	2ND41585	2	46.2	99.0	48	80.6	2.2	2	13.7	4.91	38.1	168	73.8	68	192	49	34
2318	Lamberton, MN	2MS20_3246-010	2	40.5	97.5	42	81.4	4.0	2	12.4	5.46	46.9	78	76.3	226	241	54	17
2319	Lamberton, MN	PINNACLE	2	40.9	97.3	41	80.2	2.6	1	12.6	5.01	41.7	91	66.0	325	211	52	26
2320	Lamberton, MN	2MS20_3314-010	2	43.0	98.0	42	81.0	3.1	1	12.1	5.18	44.6	78	77.9	332	217	56	22
2321	Lamberton, MN	TM19.023-002	2	42.4	95.4	45	80.6	5.7	2	13.9	5.97	43.1	85	50.0	220	251	35	19
2322	Lamberton, MN	2MS20_3310-013	2	41.5	98.8	45	80.6	n.d.	3	12.5	6.15	51.0	65	60.8	133	288	41	17
2323	Lamberton, MN	2MS20_3310-018	2	39.3	98.4	43	80.7	n.d.	3	12.6	5.72	46.0	47	64.9	92	274	51	19
2324	Lamberton, MN	TM19.003-008	2	37.7	96.2	44	81.0	n.d.	3	13.6	6.71	50.8	58	66.8	87	333	34	22
2325	Lamberton, MN	2MS20_3272-021	2	42.5	97.2	42	80.3	2.9	2	12.4	4.87	41.1	76	58.9	211	188	50	24
2326	Lamberton, MN	TM19.080-001	2	45.2	98.8	45	78.7	n.d.	3	14.9	8.05	54.2	42	55.3	57	370	33	17
2327	Lamberton, MN	CONLON	2	41.2	96.8	47	78.2	3.6	1	16.4	6.16	38.3	119	77.1	280	259	31	19
2328	Lamberton, MN	ND_GENESIS	2	41.3	96.2	44	79.9	3.1	1	12.7	5.11	43.2	84	71.0	436	192	50	25
2329	Lamberton, MN	2MS20_3808-005	2	42.9	99.0	42	82.1	4.0	2	12.7	5.39	44.9	86	77.3	312	214	55	26
2330	Lamberton, MN	2MS20_3227-028	2	42.0	96.8	43	80.8	4.9	2	12.3	5.59	47.9	74	69.1	253	240	47	21
2331	Lamberton, MN	2MS20_3227-003	2	43.4	99.6	46	80.9	4.9	2	12.9	5.93	48.9	81	77.6	145	264	46	21
2332	Lamberton, MN	AAC_SYNERGY	2	39.3	95.9	42	80.2	6.1	1	14.7	6.92	48.8	98	83.3	48	316	35	26
2333	Lamberton, MN	2MS20_3279-023	2	42.6	98.2	46	81.4	8.1	2	12.6	6.47	51.2	136	47.9	222	302	47	16
2334	Lamberton, MN	2MS20_3290-026	2	39.2	96.8	46	80.0	n.d.	3	12.1	6.33	52.7	132	46.9	178	268	40	12
2335	Lamberton, MN	2MS20_3830-006	2	40.5	98.1	44	80.2	3.4	2	12.8	5.36	44.8	82	76.2	235	237	51	20
2336	Lamberton, MN	2MS20_3227-019	2	40.9	96.9	46	81.2	4.1	2	12.6	5.67	47.6	82	90.7	190	253	45	17
2337	Lamberton, MN	2MS20_3279-014	2	41.1	97.0	46	81.0	5.7	1	13.4	6.19	48.8	57	83.5	222	260	38	18
2338	Lamberton, MN	TM19.003-009	2	39.7	96.6	44	81.5	6.3	2	12.0	6.09	53.1	61	67.6	212	259	40	23
2339	Fargo, ND	CONLON	2	42.7	97.2	52	81.0	2.0	1	13.4	5.15	41.0	129	86.4	360	212	58	24
2340	Fargo, ND	PINNACLE	2	40.2	94.4	44	81.8	2.4	1	11.6	5.10	46.0	95	78.4	379	205	53	26
2341	Fargo, ND	ND_GENESIS	2	42.9	97.3	44	82.3	2.2	1	10.3	4.87	49.8	100	87.2	451	187	44	40
2342	Fargo, ND	CONRAD MALT CHECK	2	39.9	97.8	88	84.9	2.0	1	11.0	5.52	51.4	124	100.8	123	257	58	29
2343	Fargo, ND	AAC SYNERGY	2	40.4	93.4	52	81.8	2.4	1	13.0	5.88	48.7	149	111.4	162	265	53	23
2344	Fargo, ND	2ND32529	2	42.4	96.7	51	84.1	2.3	1	10.8	5.14	52.6	92	98.6	184	231	46	29
2345	Fargo, ND	2ND40316	2	43.6	94.3	49	84.5	2.0	1	11.3	5.09	49.0	137	104.0	178	226	58	29
2346	Fargo, ND	2ND40324	2	42.3	94.5	49	84.2	2.1	1	11.3	5.07	47.6	129	103.5	189	212	58	29
2347	Fargo, ND	2ND40326	2	40.2	91.6	48	84.0	2.1	1	11.6	5.29	47.6	146	108.4	107	228	60	26
2348	Fargo, ND	2ND40336	2	40.9	93.9	51	83.5	2.2	1	11.2	5.42	51.2	139	112.4	105	229	60	31
2349	Fargo, ND	2ND40351	2	42.5	94.7	49	84.2	2.1	1	10.7	5.16	50.6	132	108.9	118	223	56	32
2350	Fargo, ND	2ND40363	2	43.8	95.3	48	84.9	2.2	1	11.2	5.27	50.1	135	109.8	109	224	61	32
2351	Fargo, ND	2ND40373	2	43.0	97.0	47	83.8	2.0	1	11.3	5.01	47.0	107	99.3	253	192	58	39
2352	Fargo, ND	2ND40377	2	41.5	96.8	47	84.4	2.2	1	10.8	5.38	51.8	92	110.6	215	238	45	28
2353	Fargo, ND	2ND40379	2	43.0	94.6	40	83.3	2.3	1	11.4	5.35	48.2	122	92.7	179	226	58	29
2354	Fargo, ND	2ND40408	2	43.4	97.5	47	83.7	2.4	1	11.4	5.65	53.5	99	114.8	146	256	50	35
2355	Fargo, ND	2ND40832	2	43.7	95.7	40	82.5	2.4	1	11.8	5.21	47.1	126	100.1	200	209	56	24
2356	Carrington, ND	CONLON	2	44.4	99.3	49	81.5	2.0	1	12.5	5.33	43.7	165	99.2	176	218	63	27
2357	Carrington, ND	PINNACLE	2	43.7	98.9	42	82.9	2.2	1	11.1	5.01	47.3	141	91.3	117	199	59	35
2358	Carrington, ND	ND_GENESIS	2	41.0	98.9	47	81.8	2.2	1	11.4	4.97	47.0	135	94.8	149	190	63	34
2359	Carrington, ND	AAC SYNERGY	2	42.7	98.3	48	82.5	2.5	1	12.5	5.69	46.7	144	113.6	60	242	66	31
2360	Carrington, ND	2ND32529	2	44.3	99.2	48	84.0	2.8	1	10.5	5.48	56.6	130	110.5	14	242	60	41
2361	Carrington, ND	2ND40316	2	44.2	98.5	46	84.6	2.5	1	10.3	5.52	53.9	138	108.1	30	255	60	41
2362	Carrington, ND	2ND40324	2	45.3	99.3	47	84.6	2.6	1	11.3	5.57	53.1	144	112.6	18	256	65	36
2363	Carrington, ND	2ND40326	2	44.7	99.2	42	84.7	2.5	1	11.0	5.43	51.4	149	113.2	18	247	65	36
2364	Carrington, ND	2ND40336	2	45.9	99.1	47	84.7	2.6	1	10.7	5.51	52.8	152	113.7	24	252	60	36
2365	Carrington, ND	2ND40351	2	45.8	99.0	47	84.5	2.4	1	11.0	5.42	53.7	138	108.2	32	243	65	36
2366	Carrington, ND	2ND40363	2	45.6	98.9	47	84.5	2.6	1	11.4	5.40	51.8	143	111.1	14	250	65	36
2367	Carrington, ND	2ND40373	2	46.9	99.6	44	84.8	2.3	1	11.4	5.15	48.1	131	108.5	48	224	65	36
2368	Carrington, ND	2ND40377	2	44.4	99.1	45	83.9	2.5	1	11.3	5.63	49.9	118	111.4	51	268	58	39
2369	Carrington, ND	2ND40379	2	45.6	99.2	42	84.4	2.5	1	11.3	5.54	52.8	138	98.1	34	272	65	36
2370	Carrington, ND	2ND40408	2	45.9	99.4	47	83.7	2.6	1	11.3	5.39	47.8	105	120.3	36	250	62	43
2371	Carrington, ND	2ND40832	2	45.7	99.0	42	82.9	2.1	1	11.5	5.13	46.2	121	102.9	31	219	70	31
2372	Minot, ND	CONLON	2	46.4	98.7	52	80.0	2.4	1	13.1	5.65	44.8	144	96.6	113	248	54	23
2373	Minot, ND	CONRAD MALT CHECK	2	41.3	98.0	87	83.9	2.3	1	11.8	5.59	50.0	121	101.2	70	235	64	30
2374	Minot, ND	PINNACLE	2	45.4	98.1	47	81.5	1.9	1	11.8	4.98	43.8	118	72.0	247	171	55	40
2375	Minot, ND	ND_GENESIS	2	44.9	97.9	51	81.0	2.0	1	12.1	5.26	46.0	124	90.9	187	196	61	22
2376	Minot, ND	AAC SYNERGY	2	45.3	97.2	54	81.2	2.6	1	13.6	6.35	49.2	139	103.9	54	257	48	26
2377	Minot, ND	2ND32529	2	44.7	96.5	52	81.6	2.0	1	10.7	5.33	50.8	139	93.5	57	199	58	39
2378	Minot, ND	2ND40316	2	45.5	96.5	54	82.4	2.1	1	11.0	5.42	49.4	152	105.3	41	216	65	36
2379	Minot, ND	2ND40324	2	44.7	94.9	51	82.4	2.0	1	12.2	5.40	46.4	156	99.6	75	209	68	31
2380	Minot, ND	2ND40326	2	45.1	97.2	52	82.8	2.0	1	11.7	5.36	49.8	154	98.5	64	213	65	31

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Lab No.	Location	Variety or Selection	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agron)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (*ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)	Adjunct Quality Score	All Malt Quality Score
2381	Minot, ND	2ND40336	2	45.7	97.3	54	82.8	2.2	1	11.3	5.35	51.6	143	106.3	47	216	65	36
2382	Minot, ND	2ND40351	2	47.2	97.3	54	82.8	2.1	1	11.8	5.45	50.0	139	98.2	104	216	61	27
2383	Minot, ND	2ND40363	2	45.8	96.1	51	82.6	2.1	1	11.8	5.36	47.7	144	102.1	81	208	63	31
2384	Minot, ND	2ND40373	2	46.8	97.8	52	81.8	2.0	1	12.3	5.09	43.5	120	91.2	127	181	64	33
2385	Minot, ND	2ND40377	2	45.6	97.8	53	82.1	2.1	1	11.9	5.47	47.6	112	99.6	111	213	58	34
2386	Minot, ND	2ND40379	2	44.9	96.0	50	82.1	2.1	1	12.1	5.30	45.4	139	84.9	81	207	68	31
2387	Minot, ND	2ND40408	2	45.9	98.1	51	82.4	2.4	1	11.0	5.43	52.8	102	107.9	62	226	57	43
2388	Minot, ND	2ND40832	2	44.7	96.2	48	82.2	2.1	1	11.3	5.10	48.1	123	89.9	48	190	63	39
2389	Kimberly, ID	CWR-001	2	33.8	48.1	64	72.0	2.4	1	17.5	6.49	38.0	200	94.1	84	267	28	14
2390	Kimberly, ID	CWR-002	2	33.0	42.2	63	71.5	2.6	1	18.7	6.68	35.9	192	91.4	97	280	28	14
2391	Kimberly, ID	CWR-003	2	39.7	88.1	73	78.0	1.8	1	13.4	5.31	39.8	116	77.2	77	204	44	24
2392	Kimberly, ID	CWR-004	2	32.9	49.8	67	72.5	2.1	1	17.2	5.93	36.0	176	87.7	68	243	31	14
2393	Kimberly, ID	CWR-005	2	35.1	67.7	66	73.6	2.2	1	16.8	6.18	36.9	180	87.2	79	239	28	14
2394	Kimberly, ID	CWR-006	2	37.1	77.2	70	74.9	2.1	1	15.5	6.06	40.8	147	84.1	41	251	33	16
2395	Kimberly, ID	CWR-007	2	41.5	93.6	72	79.4	2.0	1	13.0	5.36	43.5	99	77.4	53	215	56	26
2396	Kimberly, ID	CWR-008	2	38.4	83.0	75	78.1	2.0	1	12.8	5.36	45.5	105	76.6	37	214	53	20
2397	Kimberly, ID	CWR-009	2	36.9	75.7	69	75.1	2.2	1	16.0	6.03	39.8	148	83.9	67	247	28	16
2398	Kimberly, ID	CWR-010	2	43.8	96.5	76	80.6	2.0	1	11.8	5.40	48.5	111	81.3	11	223	59	33
2399	Kimberly, ID	CWR-011	2	38.0	78.0	68	75.4	2.2	1	16.3	6.48	40.4	160	85.2	65	269	35	18
2400	Kimberly, ID	CWR-012	2	40.3	93.4	78	80.8	1.8	1	11.1	5.17	48.1	105	77.6	21	202	56	37
2401	Kimberly, ID	CWR-013	2	40.6	90.6	73	78.2	1.9	1	14.5	5.59	41.4	127	79.8	71	223	53	25
2402	Kimberly, ID	CWR-014	2	33.6	51.8	65	73.0	2.5	1	18.2	6.85	38.3	209	99.3	27	300	28	14
2403		CONRAD MALT CHECK	2	41.0	98.2	90	85.1	1.8	1	11.9	5.57	50.9	150	108.7	62	225	64	30
2404	Kimberly, ID	CWR-015	2	34.4	55.3	65	73.4	2.3	1	18.3	6.78	37.7	236	107.5	57	283	28	14
2405	Kimberly, ID	CWR-016	2	40.9	92.8	75	78.9	1.8	1	13.6	5.56	42.3	144	90.4	43	223	53	25
2406	Kimberly, ID	CWR-017	2	41.6	90.3	77	80.5	1.8	1	10.5	5.19	51.3	117	86.7	18	207	51	33
2407	Kimberly, ID	CWR-018	2	32.7	50.4	60	72.2	2.4	1	19.3	7.00	36.3	238	104.0	66	291	28	14
2408	Kimberly, ID	CWR-019	2	34.4	54.7	64	72.6	2.4	1	18.4	6.71	38.2	226	100.4	99	289	28	14
2409	Kimberly, ID	CWR-020	2	38.7	87.8	69	76.3	1.9	1	14.8	5.44	37.6	158	93.1	109	240	36	15
2410	Kimberly, ID	CWR-021	2	43.6	98.0	66	82.3	2.4	1	10.8	5.39	52.7	96	96.2	12	258	53	39
2411	Kimberly, ID	CWR-022	2	44.6	98.2	67	82.2	2.4	1	10.6	5.29	54.4	94	93.5	10	241	53	36
2412	Kimberly, ID	CWR-023	2	43.7	97.8	63	81.5	2.3	1	11.6	5.54	51.8	114	96.5	15	257	62	33
2413	Kimberly, ID	CWR-024	2	42.7	97.7	63	81.4	2.3	1	11.6	5.64	52.7	110	92.4	12	265	58	33
2414	Kimberly, ID	CWR-025	2	44.6	98.7	61	81.2	2.7	1	12.6	5.86	48.5	121	98.4	15	275	61	26
2415	Kimberly, ID	CWR-026	2	44.4	98.4	64	80.5	2.2	1	12.7	5.63	46.3	123	95.9	16	258	63	26
2416	Kimberly, ID	CWR-027	2	46.0	99.2	62	81.5	2.4	1	11.8	5.62	49.2	107	95.3	18	257	58	38
2417	Kimberly, ID	CWR-028	2	44.0	98.6	67	82.6	2.3	1	10.8	5.27	51.8	93	92.0	10	237	53	36
2418	Kimberly, ID	CWR-029	2	42.8	97.8	66	82.7	2.4	1	10.0	5.28	55.8	91	90.8	10	242	53	41
2419	Kimberly, ID	CWR-030	2	42.9	99.8	68	82.8	2.3	1	9.7	5.04	57.2	92	92.8	12	224	53	36
2420	Kimberly, ID	CWR-031	2	43.6	98.6	64	82.6	2.2	1	9.7	5.09	54.6	89	91.2	9	217	53	36
2421	Kimberly, ID	CWR-032	2	43.6	98.4	65	82.1	2.3	1	10.3	5.12	54.2	96	91.9	10	228	53	44
2422	Kimberly, ID	CWR-033	2	43.5	98.4	63	81.3	2.4	1	11.4	5.56	51.3	110	98.2	13	245	62	38
2423	Kimberly, ID	CWR-034	2	43.0	98.8	65	81.3	2.2	1	11.6	5.34	49.9	111	96.1	12	243	62	33
2424	Kimberly, ID	CWR-035	2	42.7	98.2	65	81.8	2.1	1	10.4	5.24	51.9	99	94.5	10	235	53	44
2425	Kimberly, ID	CWR-036	2	41.9	97.4	62	81.3	2.3	1	11.4	5.47	51.5	107	93.1	11	250	61	37
2426	Kimberly, ID	CWR-037	2	41.6	97.2	74	82.0	1.7	1	8.9	4.46	50.7	93	89.1	7	179	43	49
2427	Kimberly, ID	CWR-038	2	40.4	96.8	76	82.2	1.6	1	8.1	4.39	60.0	107	89.0	8	171	47	56
2428	Kimberly, ID	CWR-039	2	43.1	98.0	72	81.8	1.7	1	9.8	4.75	52.3	127	93.5	8	202	54	36
2429	Kimberly, ID	CWR-040	2	41.0	95.4	74	81.9	1.6	1	9.4	4.54	50.1	115	94.0	10	187	50	48
2430	Kimberly, ID	CWR-041	2	42.0	97.4	72	81.9	1.7	1	8.8	4.65	56.2	104	93.0	8	193	51	49
2431	Kimberly, ID	CWR-042	2	41.0	95.2	73	81.7	1.6	1	9.7	4.62	52.4	108	86.0	13	185	50	48
2432	Kimberly, ID	CWR-043	2	43.6	97.8	70	82.0	1.7	1	10.5	4.76	49.9	114	91.8	11	196	51	51
2433	Kimberly, ID	CWR-044	2	41.8	97.2	74	82.3	1.6	1	8.6	4.56	57.2	106	87.9	9	181	50	48
2434		CONRAD MALT CHECK	2	40.9	98.1	89	84.9	1.8	1	11.3	5.32	51.5	143	113.0	77	221	64	35
2435	Kimberly, ID	CWR-045	2	40.1	91.6	74	81.0	1.6	1	10.7	4.54	46.6	121	86.8	40	169	52	40
2436	Kimberly, ID	CWR-046	2	41.6	97.0	71	81.7	1.8	1	10.3	4.79	51.4	105	95.0	8	198	50	50
2437	Kimberly, ID	CWR-047	2	42.3	97.1	72	81.8	1.7	1	9.6	4.85	54.2	108	89.0	6	198	55	46
2438	Kimberly, ID	CWR-048	2	44.7	98.4	70	81.4	2.0	1	10.6	5.19	51.0	122	94.7	7	215	60	31
2439	Kimberly, ID	CWR-049	2	40.7	94.0	72	81.9	1.7	1	9.2	4.90	56.1	109	86.0	10	200	54	42
2440	Kimberly, ID	CWR-050	2	41.6	95.1	71	81.6	1.7	1	10.1	4.92	53.1	114	88.9	10	204	54	47
2441	Kimberly, ID	CWR-051	2	43.8	98.0	72	82.7	1.8	1	10.4	5.06	51.1	109	86.8	14	214	57	48
2442	Kimberly, ID	CWR-052	2	40.1	95.2	75	82.5	1.8	1	9.7	4.69	52.3	95	84.3	13	191	46	44
2443	Kimberly, ID	CWR-053	2	40.1	92.4	73	82.3	1.8	1	9.4	4.80	53.9	101	88.4	11	193	54	45
2444	Kimberly, ID	CWR-054	2	39.6	92.0	73	82.0	1.9	1	9.7	4.98	55.1	93	80.8	13	212	50	33
2445	Kimberly, ID	CWR-055	2	39.8	89.0	74	82.0	1.9	1	9.0	4.95	60.0	95	80.5	14	204	46	34
2446	Kimberly, ID	CWR-056	2	40.6	95.0	72	82.5	2.0	1	8.2	4.24	58.2	86	79.6	6	204	46	42

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Lab No.	Location	Variety or Selection	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agrton)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (*ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)	Adjunct Quality Score	All Malt Quality Score
2447	Kimberly, ID	CWR-057	2	41.9	95.5	71	81.4	2.1	1	9.8	4.50	48.8	90	76.1	9	218	48	33
2448	Kimberly, ID	CWR-058	2	39.6	90.4	75	81.7	1.8	1	9.3	4.33	49.4	86	74.7	17	209	44	43
2449	Kimberly, ID	CWR-059	2	41.2	93.0	72	82.1	1.9	1	8.6	4.41	52.2	86	79.1	7	202	46	42
2450	Kimberly, ID	CWR-060	2	38.7	87.8	72	80.9	1.8	1	9.6	4.42	47.5	99	77.3	26	207	39	36
2451	Kimberly, ID	CWR-061	2	42.5	94.4	70	82.1	1.9	1	10.8	4.79	47.4	111	84.0	10	238	53	43
2452	Kimberly, ID	CWR-062	2	39.9	92.0	71	81.7	1.7	1	9.5	4.35	48.0	97	79.5	10	204	44	43
2453	Kimberly, ID	CWR-063	2	39.9	93.8	68	81.4	1.7	1	10.5	4.39	46.1	100	77.7	13	203	53	47
2454	Kimberly, ID	CWR-064	2	39.6	90.5	71	81.9	1.8	1	9.5	4.43	47.9	98	76.2	12	204	44	43
2455	Kimberly, ID	CWR-065	2	40.0	91.1	71	81.7	1.8	1	8.9	4.44	50.1	94	76.0	10	216	48	42
2456	Kimberly, ID	CWR-066	2	41.2	93.8	68	81.7	2.0	1	10.1	4.68	51.0	96	78.2	11	235	48	46
2457	Kimberly, ID	CWR-067	2	38.1	88.2	74	81.3	1.9	1	9.5	4.50	50.5	92	78.3	10	217	44	29
2458	Kimberly, ID	CWR-068	2	39.7	91.0	70	82.6	1.9	1	7.9	4.21	57.3	83	77.9	7	203	44	40
2459	Kimberly, ID	CWR-069	2	40.0	95.6	75	81.4	2.0	1	9.8	4.61	48.9	98	76.9	10	239	46	39
2460	Kimberly, ID	CWR-070	2	42.9	94.8	75	82.7	2.1	1	10.4	4.64	49.5	89	75.2	8	243	49	44
2461	Kimberly, ID	CWR-071	2	41.9	96.0	71	81.7	2.1	1	10.6	4.66	44.9	92	75.9	10	245	53	41
2462	Kimberly, ID	CWR-072	2	41.8	97.8	75	82.3	2.1	1	9.6	4.45	49.3	81	75.0	7	242	48	42
2463	Kimberly, ID	CWR-073	2	43.7	98.4	73	82.7	1.7	1	9.5	4.57	53.4	112	84.9	7	246	53	46
2464	Kimberly, ID	CWR-074	2	43.8	98.6	72	82.2	1.7	1	10.1	4.67	47.3	118	83.6	8	256	53	47
2465		CONRAD MALT CHECK	2	40.9	98.4	89	85.1	1.6	1	11.3	4.93	46.5	133	100.8	80	254	69	35
2466	Kimberly, ID	CWR-075	2	44.4	98.4	73	82.7	1.8	1	10.5	4.54	46.4	106	80.2	11	228	58	46
2467	Kimberly, ID	CWR-076	2	42.2	97.0	74	82.0	1.8	1	8.6	4.26	53.1	94	80.6	7	217	49	43
2468	Kimberly, ID	CWR-077	2	41.9	94.2	73	81.7	2.0	1	11.1	4.81	47.3	108	81.9	8	254	61	42
2469	Kimberly, ID	CWR-078	2	43.6	96.3	74	82.7	1.9	1	9.2	4.56	53.0	103	82.3	7	233	53	46
2470	Kimberly, ID	CWR-079	2	42.6	95.1	75	82.6	1.9	1	9.3	4.55	50.9	98	79.8	9	238	49	42
2471	Kimberly, ID	CWR-080	2	42.1	96.6	74	82.6	1.7	1	9.8	4.45	49.8	105	83.7	9	215	53	50
2472	Kimberly, ID	CWR-081	2	42.0	96.0	72	82.5	1.9	1	10.5	4.62	48.2	95	77.9	7	235	49	42
2473	Kimberly, ID	CWR-082	2	40.8	95.0	72	82.3	1.9	1	9.6	4.58	50.9	101	82.1	8	239	52	45
2474	Kimberly, ID	CWR-083	2	42.6	96.3	74	82.5	2.0	1	10.3	4.61	49.1	94	79.8	8	230	49	44
2475	Kimberly, ID	CWR-084	2	41.9	96.3	71	82.2	1.7	1	10.6	4.57	47.1	113	86.5	10	223	52	45
2476	Kimberly, ID	CWR-085	2	41.0	94.0	73	81.8	1.5	1	9.1	4.07	46.1	104	89.6	6	180	52	52
2477	Kimberly, ID	CWR-086	2	35.4	88.6	72	80.2	1.9	1	10.1	4.38	47.9	109	88.1	12	205	41	43
2478	Kimberly, ID	CWR-087	2	39.9	94.0	72	81.7	1.6	1	9.2	4.01	47.4	94	83.1	9	175	41	43
2479	Kimberly, ID	CWR-088	2	37.1	88.9	76	81.3	1.8	1	9.7	4.33	47.6	95	87.7	7	201	40	34
2480	Kimberly, ID	CWR-089	2	40.6	95.7	75	81.5	1.6	1	10.0	4.17	46.1	99	83.7	10	186	51	48
2481	Kimberly, ID	CWR-090	2	41.5	96.6	75	82.1	1.7	1	9.2	4.06	48.4	92	80.3	8	182	46	41
2482	Kimberly, ID	CWR-091	2	39.1	92.0	73	80.7	2.2	1	9.5	5.09	57.2	102	87.8	12	232	51	35
2483	Kimberly, ID	CWR-092	2	41.4	94.2	74	81.0	2.2	1	10.1	5.16	52.6	105	88.3	13	233	56	42
2484	Kimberly, ID	CWR-093	2	38.6	93.8	73	81.2	2.1	1	9.0	4.73	55.9	90	83.9	10	208	44	28
2485	Kimberly, ID	CWR-094	2	41.8	95.5	71	81.5	2.0	1	10.5	4.93	52.0	98	84.8	11	217	52	43
2486	Kimberly, ID	CWR-095	2	39.3	93.7	74	81.2	2.0	1	10.7	5.05	48.3	102	86.7	14	226	54	35
2487	Kimberly, ID	CWR-096	2	40.7	94.6	73	81.3	1.8	1	9.4	4.50	49.1	91	84.0	8	187	46	40
2488	Kimberly, ID	CWR-097	2	42.6	97.2	70	81.1	1.7	1	10.6	4.69	46.8	104	82.8	12	195	56	44
2489	Kimberly, ID	CWR-098	2	41.1	94.4	70	80.7	1.7	1	10.1	4.76	48.1	108	84.4	17	198	47	45
2490	Kimberly, ID	CWR-099	2	39.8	94.2	73	81.5	1.9	1	9.8	4.74	52.5	95	84.5	14	203	44	38
2491	Kimberly, ID	CWR-100	2	41.7	96.8	73	81.1	2.0	1	10.7	5.07	51.0	101	87.5	10	221	56	37
2492	Kimberly, ID	CWR-101	2	39.3	97.8	72	81.3	1.9	1	9.3	4.46	50.5	83	78.1	16	187	44	38
2493	Kimberly, ID	CWR-102	2	40.1	91.0	74	80.9	1.8	1	10.3	4.60	48.8	93	77.0	27	183	43	41
2494	Kimberly, ID	CWR-103	2	39.9	94.6	74	81.6	1.8	1	9.0	4.42	50.0	84	78.2	9	176	41	47
2495	Kimberly, ID	CWR-104	2	42.7	97.8	67	80.9	1.9	1	11.4	4.97	44.9	109	81.4	8	212	64	41
2496		CONRAD MALT CHECK	2	39.5	97.9	89	84.9	2.0	1	11.9	5.39	48.1	131	109.6	78	234	62	28
2497	Kimberly, ID	CWR-105	2	37.5	92.7	71	80.9	1.9	1	8.8	4.36	53.3	77	87.1	10	179	36	40
2498	Kimberly, ID	CWR-106	2	42.7	97.5	68	80.5	2.0	1	12.2	5.14	44.3	121	88.0	10	230	67	29
2499	Kimberly, ID	CWR-107	2	35.8	90.6	73	81.7	1.8	1	7.4	4.24	63.8	79	88.9	6	171	39	45
2500	Kimberly, ID	CWR-108	2	38.2	94.6	67	80.2	2.5	1	8.6	4.90	57.0	85	99.6	8	231	47	28
2501	Kimberly, ID	CWR-109	2	40.8	95.2	74	82.2	1.9	1	9.2	4.55	53.8	96	89.7	8	191	46	44
2502	Kimberly, ID	CWR-110	2	42.3	97.9	72	82.2	1.6	1	9.5	4.49	48.3	100	87.5	8	191	51	53
2503	Kimberly, ID	CWR-111	2	41.4	96.5	74	81.8	1.7	1	9.5	4.78	51.8	108	91.0	9	204	50	42
2504	Kimberly, ID	CWR-112	2	40.8	93.8	73	82.0	1.8	1	9.7	4.69	50.8	95	88.3	8	202	46	38
2505	Kimberly, ID	CWR-113	2	42.4	96.8	71	82.0	1.9	1	10.2	4.78	51.0	96	87.1	11	201	47	44
2506	Kimberly, ID	CWR-114	2	41.2	97.5	75	82.8	1.6	1	8.8	4.41	55.1	88	81.8	10	185	46	45
2507	Kimberly, ID	CWR-115	2	38.4	87.0	71	80.7	1.7	1	10.9	4.90	49.2	117	88.3	26	208	47	29
2508	Kimberly, ID	CWR-116	2	39.4	95.0	76	81.2	1.9	1	9.2	4.84	52.8	107	91.1	10	212	54	35
2509	Kimberly, ID	CWR-117	2	38.8	93.4	76	81.7	2.0	1	9.7	4.78	50.1	97	90.1	10	205	44	36
2510	Kimberly, ID	CWR-118	2	41.4	96.9	76	82.1	1.9	1	9.5	4.67	54.9	93	89.0	9	201	46	38
2511	Kimberly, ID	CWR-119	2	40.7	94.4	77	82.2	1.9	1	9.2	4.73	53.9	94	89.2	7	200	46	38
2512	Kimberly, ID	CWR-120	2	38.3	88.0	73	81.1	1.8	1	10.2	4.73	49.8	98	85.8	18	187	42	37

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Lab No.	Location	Variety or Selection	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agtron)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (*ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)	Adjunct Quality Score	All Malt Quality Score
2513	Kimberly, ID	CWR-121	2	40.9	92.9	74	81.7	1.8	1	9.3	4.54	51.7	98	87.2	13	186	46	44
2514	Kimberly, ID	CWR-122	2	40.0	94.2	76	81.5	2.0	1	10.1	4.84	50.0	102	90.9	13	213	54	40
2515	Kimberly, ID	CWR-123	2	39.4	91.6	71	80.8	2.0	1	10.6	4.85	47.5	98	88.5	24	202	45	31
2516	Kimberly, ID	CWR-124	2	42.3	95.9	73	81.8	1.9	1	9.3	4.72	54.6	88	90.1	7	197	47	39
2517	Kimberly, ID	CWR-125	2	38.9	94.0	76	81.5	1.7	1	9.9	3.67	39.2	96	90.4	10	203	41	46
2518	Kimberly, ID	CWR-126	2	40.0	95.2	76	82.3	1.8	1	9.6	3.60	41.6	89	88.6	10	205	46	38
2519	Kimberly, ID	CWR-127	2	41.4	95.6	74	81.3	1.6	1	9.2	3.44	40.7	93	87.6	9	189	48	38
2520	Kimberly, ID	CWR-128	2	42.0	95.0	72	80.4	1.7	1	11.0	3.72	36.3	107	87.5	12	210	52	41
2521	Kimberly, ID	CWR-129	2	37.6	94.6	77	81.6	1.6	1	9.3	3.47	41.8	95	85.5	10	190	44	39
2522	Kimberly, ID	CWR-130	2	42.5	95.7	74	81.6	1.7	1	9.9	3.68	40.9	101	86.0	11	211	55	53
2523	Kimberly, ID	CWR-131	2	40.9	93.3	71	80.8	1.8	1	11.0	3.89	36.2	122	94.2	22	224	49	33
2524	Kimberly, ID	CWR-132	2	40.7	95.5	74	80.7	1.4	1	11.0	3.62	33.4	113	86.7	23	194	44	43
2525	Kimberly, ID	CWR-133	2	43.7	96.3	72	82.2	1.6	1	9.1	3.58	42.9	101	91.3	8	192	53	51
2526	Kimberly, ID	CWR-134	2	41.0	94.3	74	81.7	1.7	1	10.5	3.80	37.7	110	91.3	16	217	49	50
2527		CONRAD MALT CHECK	2	40.8	98.5	90	84.4	1.5	1	11.6	4.19	38.8	130	107.6	83	235	60	40
2528	Kimberly, ID	CWR-135	2	40.2	91.5	74	80.9	1.6	1	10.5	3.72	38.2	108	91.2	15	203	44	45
2529	Kimberly, ID	CWR-136	2	39.4	86.6	74	81.4	1.5	1	10.3	3.73	37.3	105	87.4	16	196	43	44
2530	Kimberly, ID	CWR-137	2	40.6	93.8	74	81.9	1.7	1	9.9	3.89	40.4	102	90.7	10	221	54	52
2531	Kimberly, ID	CWR-138	2	42.6	96.0	74	82.0	1.5	1	9.6	3.62	40.1	92	84.7	9	185	49	44
2532	Kimberly, ID	CWR-139	2	39.4	92.3	73	81.2	1.6	1	10.0	3.73	39.6	109	89.6	19	203	45	45
2533	Kimberly, ID	CWR-140	2	40.6	93.0	70	81.5	1.7	1	10.1	3.82	40.2	104	91.0	10	214	54	52
2534	Kimberly, ID	CWR-141	2	39.7	91.2	72	81.3	1.9	1	10.5	3.99	40.7	109	94.3	27	221	52	48
2535	Kimberly, ID	CWR-142	2	38.0	90.6	75	80.6	1.7	1	10.6	3.91	37.2	121	96.9	14	216	45	32
2536	Kimberly, ID	CWR-143	2	37.7	89.0	75	81.5	1.7	1	9.9	3.74	41.4	105	94.5	10	211	48	41
2537	Kimberly, ID	CWR-144	2	40.0	94.8	74	81.6	1.6	1	9.2	3.58	43.1	87	85.1	9	183	48	41
2538	Kimberly, ID	CWR-145	2	39.2	93.8	71	81.6	1.6	1	9.1	3.54	42.3	82	83.2	12	175	43	45
2539	Kimberly, ID	CWR-146	2	40.8	92.6	72	81.8	1.6	1	9.1	3.56	40.7	87	85.5	9	189	48	43
2540	Kimberly, ID	CWR-147	2	39.2	95.0	71	80.8	1.7	1	10.3	3.78	39.4	105	87.8	17	201	42	45
2541	Kimberly, ID	CWR-148	2	42.4	97.4	73	82.5	1.6	1	9.7	3.59	40.1	92	84.6	11	185	49	44
2542	Aberdeen, ID	ABI Eagle	2	39.2	95.4	75	81.7	1.8	2	13.0	4.16	33.2	151	86.3	139	224	48	33
2543	Aberdeen, ID	AC MetCaffe	2	39.2	97.5	73	79.5	1.9	2	14.6	4.37	31.1	168	98.4	146	227	40	26
2544	Aberdeen, ID	CDC Copeland	2	41.4	98.0	75	78.7	1.7	2	13.8	4.26	32.4	163	89.0	80	194	41	32
2545	Aberdeen, ID	MERIT 57	2	37.0	92.5	74	80.0	1.6	1	14.1	4.10	29.9	156	102.6	130	199	37	24
2546	Aberdeen, ID	M69	2	39.4	92.4	65	78.7	1.8	1	13.0	4.00	31.4	132	86.7	55	213	52	24
2547	Aberdeen, ID	M179	2	38.0	94.5	66	79.8	1.8	1	13.4	4.25	33.3	157	84.9	48	239	48	29
2548	Aberdeen, ID	ABI Voyager	2	41.1	98.2	72	80.4	2.0	2	13.5	4.33	34.1	183	106.6	110	245	47	30
2549	Aberdeen, ID	19ARS158-1	2	41.5	97.3	79	81.2	1.5	1	12.2	3.94	33.4	143	89.3	235	208	48	24
2550	Aberdeen, ID	19ARS158-3	2	43.6	97.8	76	81.2	1.3	1	11.9	3.64	31.7	132	77.0	227	164	46	29
2551	Aberdeen, ID	19ARS158-8	2	40.4	89.2	77	81.1	1.6	2	11.3	3.75	33.9	124	71.3	225	183	45	29
2552	Aberdeen, ID	19ARS159-3	2	41.9	96.8	75	79.0	1.3	2	12.5	3.47	29.1	135	49.5	404	134	35	16
2553	Aberdeen, ID	19ARS160-0	2	41.7	91.3	78	77.8	1.6	1	13.0	3.77	30.5	155	89.7	184	195	38	19
2554	Aberdeen, ID	19ARS160-1	2	41.3	96.4	73	78.6	1.8	1	13.2	3.84	30.3	137	72.9	224	197	37	22
2555	Aberdeen, ID	19ARS160-2	2	41.1	88.5	76	79.2	1.4	1	12.2	3.67	30.2	142	73.9	236	199	40	20
2556	Aberdeen, ID	19ARS160-6	2	38.7	97.1	78	80.8	1.6	1	12.3	3.85	32.6	162	100.0	80	209	50	26
2557	Aberdeen, ID	19ARS160-7	2	39.5	93.0	77	78.3	1.6	1	13.5	3.71	28.2	149	82.2	315	200	30	17
2558		CONRAD MALT CHECK	2	41.2	98.7	90	84.6	1.7	1	12.4	4.08	34.9	151	117.9	119	261	56	32
2559	Aberdeen, ID	19ARS163-7	2	36.3	91.4	71	80.5	1.7	1	11.5	3.62	33.0	163	65.5	127	171	41	35
2560	Aberdeen, ID	19ARS164-0	2	40.9	94.2	78	80.5	1.9	1	12.5	4.08	33.1	140	76.8	96	246	57	31
2561	Aberdeen, ID	19ARS164-5	2	39.5	93.7	70	81.4	2.0	1	13.0	4.16	33.5	151	118.8	76	248	58	33
2562	Aberdeen, ID	19ARS164-8	2	37.7	93.7	75	81.3	1.8	1	11.8	3.93	33.6	159	113.0	37	227	53	27
2563	Aberdeen, ID	19ARS166-2	2	37.7	95.3	76	80.8	1.9	1	11.1	3.74	35.5	144	87.9	154	225	43	22
2564	Aberdeen, ID	19ARS167-1	2	36.7	94.4	71	77.6	1.3	1	13.3	3.51	27.8	128	54.7	320	163	26	17
2565	Aberdeen, ID	19ARS167-2	2	42.8	96.0	77	83.1	2.1	1	9.8	3.64	40.2	79	84.8	215	220	44	34
2566	Aberdeen, ID	19ARS167-7	2	38.0	96.2	71	78.0	1.3	1	12.8	3.43	26.8	111	57.6	335	152	34	26
2567	Aberdeen, ID	19ARS168-0	2	47.6	97.3	76	78.9	2.1	1	14.6	4.13	29.6	126	69.8	203	244	38	27
2568	Aberdeen, ID	19ARS168-6	2	42.6	97.6	71	80.6	3.3	1	11.5	4.27	37.6	96	82.9	217	309	44	37
2569	Aberdeen, ID	19ARS168-7	2	42.4	93.8	72	79.3	3.1	1	12.8	4.38	35.2	118	79.8	178	284	45	27
2570	Aberdeen, ID	19ARS169-1	2	41.0	98.1	74	82.8	2.2	1	11.0	4.03	39.6	107	98.4	48	262	52	50
2571	Aberdeen, ID	19ARS169-9	2	41.8	91.1	75	80.7	1.8	1	12.5	4.08	34.2	145	91.2	125	267	53	27
2572	Aberdeen, ID	19ARS170-1	2	42.5	96.6	72	80.5	2.1	1	12.8	4.15	33.5	139	94.7	127	264	54	32
2573	Aberdeen, ID	19ARS170-2	2	42.6	98.6	74	81.1	2.1	1	12.4	4.14	34.0	123	109.5	146	257	57	32
2574	Aberdeen, ID	19ARS172-0	2	38.1	90.9	72	79.1	1.6	1	13.5	3.70	28.7	146	81.5	288	187	35	17
2575	Aberdeen, ID	19ARS172-4	2	38.5	98.9	71	79.8	1.6	1	12.5	3.73	30.8	134	74.2	217	199	43	23
2576	Aberdeen, ID	19ARS172-5	2	34.5	89.1	71	79.1	1.5	1	12.3	3.67	30.1	131	80.5	240	205	36	10
2577	Aberdeen, ID	19ARS172-8	2	39.2	97.7	73	80.6	1.6	1	12.5	3.76	31.7	151	81.6	231	214	45	19
2578	Aberdeen, ID	19ARS172-9	2	37.7	93.4	74	80.2	1.5	1	12.7	3.70	30.1	147	84.3	366	200	41	20

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Lab No.	Location	Variety or Selection	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agron)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (*ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)	Adjunct Quality Score	All Malt Quality Score
2579	Aberdeen, ID	19ARS176-0	2	44.7	97.1	71	80.1	1.9	1	13.1	4.08	31.4	144	93.7	63	268	53	32
2580	Aberdeen, ID	19ARS176-1	2	41.8	96.6	75	80.9	2.1	1	11.3	4.00	36.9	126	99.5	56	269	54	36
2581	Aberdeen, ID	19ARS178-1	2	45.5	98.6	80	80.6	1.8	1	11.3	3.69	34.9	99	81.6	265	220	41	30
2582	Aberdeen, ID	19ARS178-2	2	45.4	98.4	79	82.0	2.2	1	10.9	3.90	37.0	71	83.4	112	263	42	38
2583	Aberdeen, ID	18ARS114-014	2	42.6	93.9	75	80.6	1.5	1	13.7	3.97	30.5	177	89.4	95	257	45	32
2584	Aberdeen, ID	18ARS114-016	2	46.1	97.1	71	80.1	2.1	1	12.9	4.15	32.4	127	84.3	150	251	54	32
2585	Aberdeen, ID	18ARS114-066	2	39.0	94.1	69	79.3	1.5	1	14.1	4.28	30.8	188	95.1	77	260	42	28
2586	Aberdeen, ID	18ARS122-4	2	41.0	96.0	66	78.2	1.8	1	14.6	3.96	27.8	164	83.8	256	212	34	19
2587	Aberdeen, ID	18ARS126-3	2	39.0	89.6	68	77.9	1.7	1	15.1	4.51	30.1	203	100.0	87	305	36	22
2588	Aberdeen, ID	18ARS128-1	2	41.1	95.7	64	79.9	3.1	2	14.2	4.60	32.8	166	105.8	101	314	42	24
2589	Aberdeen, ID	CONRAD MALT CHECK	2	37.9	98.3	89	85.1	2.0	1	11.6	4.61	43.4	130	97.9	299	256	54	25
2590	Aberdeen, ID	18ARS129-1	2	39.5	95.6	66	79.1	1.8	1	13.9	4.52	32.9	165	80.6	55	240	42	24
2591	Aberdeen, ID	18ARS132-3	2	38.3	89.6	69	76.7	1.5	1	15.5	4.65	30.9	185	83.2	163	249	29	15
2592	Aberdeen, ID	18ARS136-1	2	45.8	97.4	67	78.1	1.8	1	14.6	4.54	31.2	147	63.8	275	214	38	18
2593	Aberdeen, ID	18ARS138-3	2	39.7	91.3	70	80.0	1.9	1	14.1	5.06	37.0	126	72.4	77	301	49	27
2594	Aberdeen, ID	18ARS146-5	2	44.5	93.2	73	78.1	1.7	1	13.4	4.48	33.6	127	77.9	248	243	43	24
2595	Aberdeen, ID	18ARS149-3	2	41.9	94.4	66	79.2	1.9	1	12.9	4.48	34.8	151	93.4	89	230	54	30
2596	Aberdeen, ID	18ARS153-5	2	41.9	97.0	76	81.8	2.2	1	12.1	4.62	41.0	132	87.1	58	246	65	38
2597	Aberdeen, ID	18ARS154-3	2	41.7	98.2	77	80.7	1.5	1	12.9	4.45	35.4	150	102.6	45	219	57	35
2598	Aberdeen, ID	11ARS162-4	2	40.6	97.6	77	80.7	2.1	1	13.4	4.64	36.7	148	80.5	317	235	45	24
2599	Aberdeen, ID	11ARS183-9	2	40.0	97.5	73	81.2	2.3	1	13.3	4.69	36.3	145	91.0	121	231	51	27
2600	Aberdeen, ID	15ARS010-5	2	40.0	96.7	72	78.2	1.9	1	14.8	4.74	32.1	137	78.0	220	229	35	14
2601	Aberdeen, ID	15ARS191-3	2	38.6	97.7	67	77.8	2.2	1	15.3	4.85	31.8	148	88.6	361	232	35	14
2602	Aberdeen, ID	16ARS039-0	2	39.5	95.0	67	79.6	2.4	1	13.8	5.10	37.5	134	91.2	201	258	42	17
2603	Aberdeen, ID	16ARS067-13	2	41.2	96.6	68	81.2	2.1	1	11.5	4.55	42.1	93	90.6	106	234	54	34
2604	Aberdeen, ID	17ARS069-1	2	41.6	94.0	70	78.6	2.8	1	14.9	5.21	36.3	138	95.2	216	262	41	16
2605	Aberdeen, ID	17ARS072-5	2	38.7	97.4	64	80.2	2.8	1	13.8	5.51	41.6	120	97.7	186	318	44	24
2606	Aberdeen, ID	17ARS103-4	2	40.0	93.4	71	77.7	2.1	1	15.9	5.13	33.1	126	78.4	250	257	37	16
2607	Aberdeen, ID	17ARS105-1	2	35.9	58.0	89	86.9	3.3	1	13.7	5.40	40.4	141	83.4	10	295	50	26
2608	Aberdeen, ID	17ARS105-2	2	35.7	50.9	82	85.0	2.3	1	13.9	5.27	40.4	156	80.2	59	232	50	26
2609	Aberdeen, ID	17ARS105-7	2	32.5	42.2	81	87.0	2.6	1	14.0	5.69	41.1	155	87.8	51	318	46	26
2610	Aberdeen, ID	17ARS106-2	2	35.2	54.5	83	87.2	2.7	1	13.9	5.42	40.1	155	104.8	19	297	50	26
2611	Aberdeen, ID	17ARS106-5	2	34.7	48.8	78	86.4	2.7	1	14.5	5.65	39.4	164	107.8	32	328	41	26
2612	Aberdeen, ID	17ARS106-9	2	34.8	63.6	86	87.8	6.3	1	12.6	5.88	48.6	109	88.5	7	367	48	28
2613	Aberdeen, ID	17ARS107-1	2	31.8	49.1	83	85.1	2.1	1	15.0	5.13	35.6	163	70.1	22	230	45	27
2614	Aberdeen, ID	17ARS107-6	2	35.1	44.5	86	86.4	2.7	1	14.0	5.19	39.1	148	73.5	21	266	45	29
2615	Aberdeen, ID	17ARS107-9	2	33.7	48.2	84	85.2	2.2	1	15.6	4.93	33.5	185	71.8	58	227	45	27
2616	Aberdeen, ID	17ARS109-1	2	34.9	61.4	83	86.1	2.2	1	14.8	5.62	38.5	205	85.9	13	292	41	24
2617	Aberdeen, ID	17ARS109-3	2	33.3	53.3	76	85.2	2.4	1	15.8	6.10	40.0	194	83.2	17	322	38	26
2618	Aberdeen, ID	17ARS109-4	2	34.5	56.6	87	87.8	2.6	1	13.5	5.39	39.9	154	80.9	9	286	45	26
2619	Aberdeen, ID	17ARS109-6	2	34.5	64.1	80	86.3	2.1	1	14.3	5.51	38.8	210	84.0	14	288	45	24
2620	Aberdeen, ID	CONRAD MALT CHECK	2	39.2	98.5	88	84.7	1.7	1	12.3	4.84	40.7	140	105.0	120	252	63	29
2621	Aberdeen, ID	18S117-16	2	43.1	97.2	65	79.6	1.7	1	13.6	4.96	37.5	167	96.3	47	244	52	27
2622	Aberdeen, ID	18S117-46	2	40.2	87.0	65	77.9	1.5	1	13.1	4.54	37.3	150	79.8	104	218	39	20
2623	Aberdeen, ID	18S117-48	2	45.0	95.9	66	76.2	1.8	1	16.3	5.02	31.0	169	81.3	198	220	38	17
2624	Aberdeen, ID	18S117-54	2	43.1	95.9	74	78.4	1.6	1	13.7	4.85	36.7	155	83.4	172	231	42	17
2625	Aberdeen, ID	18S117-79	2	44.2	96.9	67	76.8	1.9	1	14.9	5.41	36.5	163	90.9	128	221	41	20
2626	Aberdeen, ID	18S117-86	2	42.6	90.2	67	76.6	1.5	1	15.9	5.07	33.2	177	79.7	168	194	36	20
2627	Aberdeen, ID	18S117-90	2	45.0	98.4	71	78.7	1.7	1	13.4	5.12	38.4	149	77.1	139	205	48	20
2628	Aberdeen, ID	18S117-117	2	38.7	83.6	71	78.1	1.4	1	13.3	4.89	37.0	154	87.0	119	200	40	15
2629	Aberdeen, ID	18S117-120	2	38.8	90.1	68	78.5	1.6	1	12.5	4.88	42.4	145	78.3	121	210	57	19
2630	Aberdeen, ID	18S117-124	2	42.2	94.7	71	78.4	1.4	1	13.9	5.07	37.2	145	77.8	140	205	43	20
2631	Aberdeen, ID	18S117-134	2	41.6	92.9	67	77.5	2.1	1	13.0	5.34	43.1	135	80.5	157	232	52	16
2632	Aberdeen, ID	18S117-151	2	43.6	95.9	70	77.8	1.9	1	14.1	5.35	38.2	140	88.3	213	220	38	17
2633	Aberdeen, ID	18S117-165	2	43.3	96.3	74	79.5	1.7	1	12.3	4.98	41.7	143	78.2	105	199	61	28
2634	Aberdeen, ID	18S117-185	2	42.4	94.5	72	78.8	1.6	1	13.0	5.24	41.2	122	74.4	85	241	64	29
2635	Aberdeen, ID	18S117-193	2	40.9	88.5	69	79.1	1.6	1	13.2	5.12	40.5	136	92.7	82	212	56	23
2636	Aberdeen, ID	18S117-198	2	41.6	94.9	68	78.6	1.7	1	13.5	5.39	41.5	144	88.1	96	246	58	25
2637	Aberdeen, ID	12ARS033-5	2	42.0	95.8	71	77.5	1.6	1	16.1	5.52	34.9	174	93.3	177	225	37	16
2638	Aberdeen, ID	12ARS034-6	2	40.6	91.9	70	77.6	1.8	2	14.5	4.84	34.0	117	54.0	311	172	28	23
2639	Aberdeen, ID	12ARS034-8	2	37.1	90.1	70	78.5	1.8	1	14.8	5.29	36.2	151	77.4	220	211	37	12
2640	Kimberly, ID	ABI Eagle	2	40.4	94.0	76	82.7	2.1	1	12.6	5.53	47.2	131	86.7	241	251	57	23
2641	Kimberly, ID	AC Metcalf	2	40.1	93.7	74	80.8	1.9	2	13.7	5.36	41.3	141	90.4	175	225	48	22
2642	Kimberly, ID	CDC Copeland	2	43.0	97.7	76	80.7	1.9	2	13.2	5.66	45.7	150	93.7	77	235	57	25
2643	Kimberly, ID	MERIT 57	2	39.5	93.6	79	81.6	1.7	1	12.6	5.19	41.8	154	104.4	239	218	60	26
2644	Kimberly, ID	M69	2	40.2	93.5	68	80.6	1.8	1	12.2	5.08	42.3	129	87.3	138	226	62	26

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Lab No.	Location	Variety or Selection	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agron)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (*ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)	Adjunct Quality Score	All Malt Quality Score
2645	Kimberly, ID	M179	2	41.9	97.8	71	82.2	1.8	1	12.4	5.60	47.0	141	88.6	54	266	64	30
2646	Kimberly, ID	ABI Voyager	2	41.8	97.2	73	80.9	1.9	1	12.7	5.89	48.7	160	104.7	83	271	57	25
2647	Kimberly, ID	18ARS114-014	2	40.7	94.3	79	81.7	1.8	2	12.0	5.06	43.9	120	70.2	267	217	58	31
2648	Kimberly, ID	18ARS114-016	2	44.8	94.2	78	81.3	1.8	2	11.8	5.23	45.9	95	76.6	209	218	55	21
2649	Kimberly, ID	18ARS114-066	2	41.3	96.6	83	82.6	1.6	2	12.1	5.14	44.0	121	83.4	232	215	61	25
2650	Kimberly, ID	18ARS122-4	2	45.6	98.1	72	81.2	1.9	2	12.6	5.26	42.7	130	78.4	226	199	60	26
2651		CONRAD MALT CHECK	2	40.9	98.0	90	85.0	1.6	1	12.0	5.42	48.9	132	101.4	139	245	60	26
2652	Kimberly, ID	18ARS126-3	2	41.7	94.6	76	80.6	1.6	1	12.9	5.31	42.7	140	91.3	263	225	59	23
2653	Kimberly, ID	18ARS128-1	2	43.1	96.3	69	81.3	n.d.	3	13.2	6.22	48.5	164	104.0	63	282	51	24
2654	Kimberly, ID	18ARS129-1	2	43.1	97.9	78	82.4	1.6	1	11.4	5.06	45.9	135	83.9	75	211	70	36
2655	Kimberly, ID	18ARS132-3	2	42.2	96.2	75	80.1	1.5	1	13.3	5.27	39.8	164	78.6	211	213	50	24
2656	Kimberly, ID	18ARS136-1	2	45.8	97.6	82	80.4	n.d.	3	12.0	4.92	41.7	119	55.9	413	176	50	30
2657	Kimberly, ID	18ARS138-3	2	42.1	94.8	77	81.7	1.8	1	12.7	5.78	47.0	113	77.8	209	260	56	31
2658	Kimberly, ID	18ARS146-5	2	45.5	95.6	79	79.9	1.7	1	12.2	5.03	44.7	118	85.2	378	197	55	26
2659	Kimberly, ID	18ARS149-3	2	43.0	96.9	78	81.7	1.8	2	11.0	5.08	48.4	121	97.6	170	213	57	28
2660	Kimberly, ID	18ARS153-5	2	42.5	97.0	79	83.0	n.d.	3	12.1	5.45	48.4	128	82.6	133	227	59	25
2661	Kimberly, ID	18ARS154-3	2	40.7	96.6	85	81.8	1.9	1	12.3	5.06	43.3	138	98.5	174	205	60	26
2662	Kimberly, ID	11ARS162-4	2	40.1	93.8	78	81.1	1.9	1	12.9	5.21	43.6	141	81.0	287	221	62	21
2663	Kimberly, ID	11ARS183-9	2	40.9	94.9	76	81.5	2.1	1	13.2	5.47	43.0	137	93.5	114	248	60	26
2664	Kimberly, ID	15ARS010-5	2	41.1	95.8	77	79.8	1.7	1	12.8	5.27	44.4	126	79.8	207	219	59	19
2665	Kimberly, ID	15ARS191-3	2	39.4	94.2	73	80.0	2.1	1	13.1	5.23	40.7	145	84.2	274	228	52	19
2666	Kimberly, ID	16ARS039-0	2	43.7	97.3	81	82.2	2.3	1	12.4	5.83	48.4	140	98.3	135	263	57	27
2667	Kimberly, ID	16ARS067-13	2	41.9	94.3	73	81.5	2.5	1	11.7	5.12	44.0	128	101.2	74	240	69	28
2668	Kimberly, ID	17ARS069-1	2	43.6	96.8	78	80.9	2.1	1	13.2	5.67	44.3	154	101.6	122	269	54	25
2669	Kimberly, ID	17ARS072-5	2	39.4	95.0	69	82.0	2.0	1	11.8	5.63	50.4	120	96.3	212	269	48	24
2670	Kimberly, ID	17ARS103-4	2	41.7	93.8	73	80.2	1.7	1	12.9	5.41	44.1	142	96.5	150	243	62	24
2671	Kimberly, ID	17ARS105-1	2	35.5	86.5	89	87.3	3.2	2	12.3	5.45	45.2	105	64.6	18	257	59	28
2672	Kimberly, ID	17ARS105-2	2	33.8	67.6	89	88.9	2.9	2	11.6	5.49	48.0	109	65.4	16	249	51	30
2673	Kimberly, ID	17ARS105-7	2	33.7	72.3	86	88.4	n.d.	3	13.2	5.92	47.4	85	55.8	16	283	37	17
2674	Kimberly, ID	17ARS106-2	2	35.7	81.2	87	89.6	3.2	2	11.4	5.65	50.4	112	93.0	14	292	47	32
2675	Kimberly, ID	17ARS106-5	2	35.6	79.4	85	89.3	2.7	2	11.9	5.82	50.1	115	101.4	16	297	47	23
2676	Kimberly, ID	17ARS106-9	2	36.8	82.8	89	89.0	2.4	1	11.3	5.39	49.9	120	91.3	13	262	52	29
2677	Kimberly, ID	17ARS107-1	2	33.8	85.3	87	86.4	2.1	2	13.5	5.41	42.0	124	51.5	23	234	57	26
2678	Kimberly, ID	17ARS107-6	2	33.8	86.3	87	86.4	2.3	1	13.4	5.63	42.8	128	60.9	26	247	54	27
2679	Kimberly, ID	17ARS107-9	2	34.5	77.1	85	87.3	2.1	1	13.1	5.69	45.3	134	62.1	62	250	51	19
2680	Kimberly, ID	17ARS109-1	2	34.0	83.8	86	88.2	2.6	2	13.2	6.20	47.3	182	82.5	19	283	42	20
2681	Kimberly, ID	17ARS109-3	2	33.9	76.8	83	88.6	2.3	1	12.8	6.31	49.6	160	78.1	14	295	48	21
2682		CONRAD MALT CHECK	2	40.4	88.4	91	85.2	2.0	1	12.2	5.68	49.3	126	100.4	146	276	54	24
2683	Kimberly, ID	17ARS109-4	2	33.5	76.7	87	87.8	2.8	2	13.9	6.21	46.0	137	71.4	23	284	42	23
2684	Kimberly, ID	17ARS109-6	2	33.5	83.6	83	87.7	2.8	2	12.9	6.07	47.7	145	67.8	23	268	47	23
2685	Kimberly, ID	18S117-16	2	45.3	96.1	71	80.8	2.1	1	13.0	5.80	48.0	139	93.2	127	266	49	22
2686	Kimberly, ID	18S117-46	2	41.6	93.3	71	79.9	1.9	1	12.4	5.26	44.8	129	84.8	166	245	59	19
2687	Kimberly, ID	18S117-48	2	46.7	93.7	70	79.7	2.2	1	13.6	5.58	42.5	117	81.3	342	235	47	25
2688	Kimberly, ID	18S117-54	2	43.9	93.5	79	79.9	1.7	1	13.7	5.72	43.9	151	89.9	345	265	46	20
2689	Kimberly, ID	18S117-79	2	48.5	98.6	74	79.7	2.3	1	13.2	5.48	43.1	139	86.5	294	237	55	20
2690	Kimberly, ID	18S117-86	2	46.7	95.3	71	79.1	1.8	1	14.1	5.25	38.5	137	79.1	352	217	42	17
2691	Kimberly, ID	18S117-90	2	43.8	96.6	71	79.8	1.7	1	13.3	5.27	40.3	116	78.0	370	224	52	25
2692	Kimberly, ID	18S117-117	2	41.4	88.6	74	80.0	1.7	1	13.6	5.42	41.7	127	87.1	264	253	47	21
2693	Kimberly, ID	18S117-120	2	40.0	90.6	71	79.1	1.9	1	12.8	5.22	42.3	129	80.2	219	245	54	16
2694	Kimberly, ID	18S117-124	2	42.1	92.3	73	80.3	1.8	1	12.8	5.31	42.8	109	80.0	323	237	57	31
2695	Kimberly, ID	18S117-134	2	44.5	94.3	75	79.1	1.8	1	13.2	5.50	44.1	129	83.2	319	235	52	17
2696	Kimberly, ID	18S117-151	2	43.1	93.2	73	78.9	2.0	1	13.5	4.83	37.6	102	90.2	376	236	39	24
2697	Kimberly, ID	18S117-165	2	44.5	94.4	78	79.0	2.0	1	13.6	4.85	37.3	116	78.4	341	221	39	20
2698	Kimberly, ID	18S117-185	2	40.1	88.6	79	79.8	1.9	1	12.6	4.79	39.9	101	75.5	271	241	45	26
2699	Kimberly, ID	18S117-193	2	44.1	91.6	73	80.9	2.0	1	12.7	4.80	38.6	106	89.2	138	231	51	32
2700	Kimberly, ID	18S117-198	2	43.0	92.9	75	79.5	1.8	1	13.1	4.88	37.5	136	84.1	250	241	50	17
2701	Kimberly, ID	12ARS033-5	2	46.2	97.4	78	80.9	2.1	1	13.8	5.03	36.7	126	90.8	355	237	45	22
2702	Kimberly, ID	12ARS034-6	2	43.9	95.9	75	80.4	2.1	2	13.1	4.84	37.0	120	66.2	277	210	46	27
2703	Kimberly, ID	12ARS034-8	2	40.2	92.4	75	81.9	2.0	1	12.9	4.89	38.7	148	85.6	258	216	57	26
2704	Aberdeen, ID	ABI Eagle	2	39.2	95.4	63	80.9	2.7	2	14.7	5.54	39.0	148	100.1	255	287	41	20
2705	Aberdeen, ID	AC Met Caffe	2	40.3	97.9	71	79.9	2.5	2	15.3	5.58	38.6	170	104.9	167	280	43	18
2706	Aberdeen, ID	CDC Copeland	2	41.2	98.1	69	77.9	2.7	2	15.9	5.80	36.9	175	98.9	199	251	32	15
2707	Aberdeen, ID	MERIT 57	2	38.5	96.2	60	79.2	2.7	2	15.9	5.68	36.7	155	114.3	301	279	34	13
2708	Aberdeen, ID	M69	2	38.5	93.3	59	78.3	2.5	1	15.0	5.65	38.3	141	91.8	155	279	35	14
2709	Aberdeen, ID	M179	2	37.5	96.7	53	79.8	2.9	1	15.7	6.13	39.1	147	92.3	152	331	33	17
2710	Aberdeen, ID	ABI Voyager	2	41.0	98.6	68	81.1	2.6	1	13.4	5.77	45.1	158	100.6	211	291	53	18

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Lab No.	Location	Variety or Selection	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agron)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (*ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)	Adjunct Quality Score	All Malt Quality Score
2711	Aberdeen, ID	11ARS162-4	2	38.3	95.4	70	80.0	2.4	1	14.5	5.68	41.4	148	85.5	346	284	43	21
2712	Aberdeen, ID	11ARS183-9	2	39.5	96.8	64	78.7	2.9	2	17.3	5.71	33.4	165	97.2	334	273	34	13
2713		CONRAD MALT CHECK	2	40.9	98.4	90	85.0	1.8	1	12.2	5.14	42.9	145	107.3	128	257	65	31
2714	Aberdeen, ID	15ARS010-5	2	39.8	99.1	67	79.6	2.1	1	14.4	5.30	37.3	157	89.4	231	251	42	17
2715	Aberdeen, ID	15ARS191-3	2	38.8	97.6	66	79.6	2.5	2	14.9	5.17	37.0	154	89.0	251	240	41	16
2716	Aberdeen, ID	16ARS039-0	2	37.4	95.3	65	79.7	3.0	2	14.1	5.70	42.3	139	96.3	266	292	40	16
2717	Aberdeen, ID	16ARS067-13	2	39.9	94.3	54	78.0	2.9	1	15.8	5.89	37.5	142	99.5	158	301	35	14
2718	Aberdeen, ID	17ARS069-1	2	37.9	91.6	64	78.2	3.4	2	15.7	6.12	39.2	147	105.2	223	326	29	13
2719	Aberdeen, ID	17ARS072-5	2	36.4	96.1	58	80.2	3.1	2	14.5	6.14	42.9	133	106.0	233	314	37	18
2720	Aberdeen, ID	17ARS103-4	2	37.6	92.5	64	77.8	2.2	1	15.6	5.56	37.4	152	94.0	384	267	33	12
2721	Ashton, ID	ABI Eagle	2	38.8	94.9	81	85.1	1.9	1	9.7	4.61	52.7	132	81.0	86	221	53	36
2722	Ashton, ID	AC Metcalfe	2	37.4	95.0	69	83.1	2.6	1	12.1	5.30	46.2	168	97.5	177	247	58	19
2723	Ashton, ID	CDC Copeland	2	40.0	96.5	70	82.1	2.1	1	11.4	5.02	44.4	172	93.5	96	214	69	38
2724	Ashton, ID	MERIT 57	2	36.7	93.8	71	84.0	2.3	1	10.8	4.91	46.8	158	108.6	106	233	56	27
2725	Ashton, ID	M69	2	41.0	96.9	68	82.9	1.8	1	10.0	4.33	43.9	144	81.3	57	198	58	53
2726	Ashton, ID	M179	2	40.7	98.5	70	84.0	2.1	1	11.2	5.02	46.4	148	84.3	113	249	65	31
2727	Ashton, ID	ABI Voyager	2	42.7	99.2	75	83.6	2.4	1	11.3	5.24	47.9	168	108.7	134	255	61	32
2728	Ashton, ID	11ARS162-4	2	38.6	94.6	76	83.8	2.1	1	11.4	5.00	46.2	176	86.3	168	232	60	26
2729	Ashton, ID	11ARS183-9	2	42.3	98.1	75	83.6	3.7	2	11.5	5.53	51.9	129	100.3	108	293	60	26
2730	Ashton, ID	15ARS010-5	2	38.7	96.7	73	81.7	1.8	1	11.3	4.56	41.4	146	68.1	287	187	54	40
2731	Ashton, ID	15ARS191-3	2	40.2	97.1	74	83.0	2.2	2	10.0	4.36	48.1	136	81.3	188	181	45	42
2732	Ashton, ID	16ARS039-0	2	41.4	98.5	78	83.9	2.2	1	10.4	4.52	44.2	139	94.0	114	231	56	42
2733	Ashton, ID	16ARS067-13	2	42.1	96.9	68	83.0	2.0	1	10.0	4.12	44.4	128	95.5	41	211	61	51
2734	Ashton, ID	17ARS069-1	2	43.2	98.3	71	82.3	2.4	1	12.1	4.58	38.1	169	99.8	157	243	54	30
2735	Ashton, ID	17ARS072-5	2	42.6	98.6	70	83.3	2.2	2	9.9	4.53	47.4	123	96.5	82	253	55	43
2736	Ashton, ID	17ARS103-4	2	44.9	97.3	74	82.5	1.9	1	10.6	4.26	40.8	147	87.7	244	223	54	41
2737	Fargo, ND	CONLON	2	38.3	95.9	53	81.3	2.2	1	13.3	4.44	33.6	141	90.6	361	212	46	26
2738	Fargo, ND	PINNACLE	2	41.3	92.7	43	80.8	2.9	1	12.0	4.29	35.9	106	87.5	373	203	45	35
2739	Fargo, ND	ND GENESIS	2	40.1	96.6	48	82.2	2.7	1	11.1	4.38	39.9	111	99.4	394	212	50	47
2740	Fargo, ND	AAC SYNERGY	2	40.4	94.3	49	81.0	3.1	1	13.5	5.07	38.7	141	116.2	174	265	52	21
2741	Fargo, ND	AAC CONNECT	2	43.0	92.7	51	81.3	3.1	1	12.9	4.83	38.7	141	115.6	259	253	58	22
2742	Fargo, ND	EXPLORER	2	42.5	91.7	48	80.9	2.2	1	13.4	4.66	35.4	138	113.3	65	228	53	32
2743	Fargo, ND	ABI CARDINAL	2	38.7	92.8	46	81.5	3.4	1	14.1	5.14	36.9	150	118.6	178	283	45	19
2744		CONRAD MALT CHECK	2	41.1	98.3	90	85.0	1.9	1	11.5	4.71	41.9	135	109.0	61	260	65	35
2745	Fargo, ND	BREWSKI	2	43.3	96.8	46	81.1	3.0	2	11.9	4.53	39.1	117	105.3	119	236	53	32
2746	Fargo, ND	2ND32529	2	39.7	95.0	51	83.6	2.6	1	11.0	4.57	43.0	104	106.1	161	239	48	41
2747	Fargo, ND	2ND34634	2	44.9	96.4	43	81.6	3.9	1	13.8	5.43	40.4	124	119.2	168	323	53	29
2748	Fargo, ND	2ND36638	2	40.2	95.4	49	82.9	2.1	2	12.6	4.33	35.9	127	79.5	174	199	50	35
2749	Fargo, ND	2ND36642	2	46.1	96.7	43	84.8	2.7	2	11.6	4.71	40.9	136	89.3	75	243	65	35
2750	Fargo, ND	2ND37111	2	41.3	91.3	51	84.4	2.7	1	11.3	4.72	42.8	118	103.7	112	269	58	39
2751	Fargo, ND	2ND37130	2	44.3	96.0	46	84.5	3.1	1	11.2	4.85	43.4	119	110.2	73	289	67	42
2752	Fargo, ND	2ND37568	2	41.9	94.8	46	82.7	2.7	1	11.2	4.51	44.0	99	90.0	163	250	51	37
2753	Fargo, ND	2ND38344	2	38.0	91.0	50	82.2	2.4	1	11.9	4.70	40.7	107	89.4	136	244	56	36
2754	Fargo, ND	2ND38738	2	41.5	94.4	48	82.2	2.4	2	12.2	4.54	38.0	137	102.1	168	236	52	28
2755	Fargo, ND	2ND38752	2	41.5	85.6	45	82.7	2.4	1	12.4	4.54	38.7	97	86.4	197	222	44	30
2756	Fargo, ND	2ND38959	2	38.7	93.3	50	82.6	2.6	1	12.2	4.65	40.0	124	114.4	150	227	51	29
2757	Fargo, ND	2ND39010	2	40.9	95.3	50	82.9	2.7	1	10.8	4.72	45.6	111	111.7	86	252	57	42
2758	Fargo, ND	2ND39092	2	39.6	94.2	44	83.0	2.4	1	11.6	4.61	41.6	106	104.8	130	232	56	39
2759	Fargo, ND	2ND39256	2	41.5	96.0	48	85.0	2.2	1	11.9	4.67	41.5	138	106.3	261	241	58	31
2760	Fargo, ND	2ND39385	2	42.5	97.4	48	82.6	2.3	1	12.0	4.54	40.9	128	97.1	213	241	59	32
2761	Fargo, ND	2ND39424	2	41.7	96.0	49	84.7	2.1	1	11.2	4.66	42.2	92	101.8	244	242	51	36
2762	Fargo, ND	2ND39874	2	38.9	84.8	49	82.3	3.1	1	11.9	4.85	43.7	111	97.1	82	262	59	33
2763	Fargo, ND	2ND39881	2	42.9	93.7	48	83.3	2.7	1	11.3	4.67	42.9	142	108.0	140	244	62	40
2764	Fargo, ND	2ND39907	2	40.6	88.9	47	83.4	2.0	1	11.3	4.30	40.6	123	100.4	194	217	56	38
2765	Fargo, ND	2ND39909	2	44.3	96.3	48	84.0	3.1	2	11.4	5.08	45.2	127	110.3	105	285	65	31
2766	Carrington, ND	CONLON	2	43.6	98.3	49	81.4	1.9	1	12.9	4.63	37.8	165	96.4	303	229	54	25
2767	Carrington, ND	PINNACLE	2	43.3	98.0	43	83.4	2.0	1	11.7	4.48	40.2	146	85.7	280	226	59	36
2768	Carrington, ND	ND GENESIS	2	41.3	98.9	45	82.3	2.2	1	11.1	5.15	49.0	140	97.1	205	237	57	28
2769	Carrington, ND	AAC SYNERGY	2	43.9	98.4	49	83.5	3.2	1	12.5	6.59	53.3	150	122.8	37	365	58	31
2770	Carrington, ND	AAC CONNECT	2	41.5	97.2	50	83.3	2.7	1	12.3	6.15	52.3	157	117.6	101	315	53	26
2771	Carrington, ND	EXPLORER	2	43.7	97.3	44	81.6	2.3	1	12.6	5.51	45.1	141	120.0	24	267	70	31
2772	Carrington, ND	ABI CARDINAL	2	39.0	97.2	46	82.8	3.1	1	12.4	6.30	54.5	186	122.9	101	324	51	24
2773	Carrington, ND	BREWSKI	2	44.0	98.8	44	81.7	2.3	1	12.1	5.60	46.9	128	99.3	47	286	66	31
2774	Carrington, ND	2ND32529	2	42.9	98.0	51	83.5	2.6	1	11.2	5.52	53.0	139	98.8	66	294	65	36
2775		CONRAD MALT CHECK	2	41.8	98.1	90	84.5	2.1	1	11.5	5.67	53.1	141	105.3	78	287	60	35
2776	Carrington, ND	2ND34634	2	47.6	99.1	44	82.5	3.4	1	12.5	6.32	55.0	139	113.6	70	325	58	31

2022 Crop Year Breeders' Submissions

Lab No.	Location	Variety or Selection	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agrton)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (*ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)	Adjunct Quality Score	All Malt Quality Score
2777	Carrington, ND	2ND36638	2	46.8	99.0	45	83.1	2.2	1	12.2	5.28	45.1	147	85.1	31	235	70	31
2778	Carrington, ND	2ND36642	2	47.8	99.3	47	84.0	2.7	1	11.2	5.55	50.5	146	83.6	24	257	65	36
2779	Carrington, ND	2ND37111	2	46.0	98.9	48	84.5	2.9	1	10.7	5.82	57.8	132	102.1	30	299	56	36
2780	Carrington, ND	2ND37130	2	47.2	99.0	46	85.1	2.4	1	10.7	5.62	52.6	126	105.6	27	275	56	36
2781	Carrington, ND	2ND37568	2	42.8	98.4	47	83.7	2.2	1	11.0	5.42	51.9	144	87.5	56	268	60	36
2782	Carrington, ND	2ND38344	2	38.5	96.6	51	82.6	2.2	1	11.8	5.48	50.0	128	93.3	77	242	62	28
2783	Carrington, ND	2ND38738	2	45.4	99.2	43	81.8	2.3	1	12.3	5.76	48.3	172	111.0	67	262	61	31
2784	Carrington, ND	2ND38752	2	44.4	97.1	43	82.2	2.5	1	11.4	5.80	53.7	144	96.2	23	266	61	36
2785	Carrington, ND	2ND38959	2	43.1	98.1	41	83.2	2.4	1	10.9	5.49	53.1	150	117.4	76	262	60	36
2786	Carrington, ND	2ND39010	2	44.7	98.1	47	83.2	2.5	1	10.9	5.71	56.4	128	124.1	20	289	56	36
2787	Carrington, ND	2ND39092	2	42.7	98.6	45	82.3	2.3	1	11.8	5.40	47.2	131	102.7	46	235	65	31
2788	Carrington, ND	2ND39256	2	45.5	99.2	46	84.1	2.5	1	11.3	5.89	54.4	170	120.4	54	274	61	36
2789	Carrington, ND	2ND39385	2	48.8	99.3	44	83.6	2.4	1	11.5	5.66	52.9	143	104.8	71	292	61	31
2790	Carrington, ND	2ND39424	2	44.6	98.6	48	84.4	2.3	1	11.1	5.83	54.5	137	112.6	77	280	61	36
2791	Carrington, ND	2ND39874	2	44.2	98.0	46	83.2	2.4	1	10.9	5.74	54.6	129	95.3	47	272	56	36
2792	Carrington, ND	2ND39881	2	44.3	97.7	48	83.8	2.4	1	10.8	5.68	56.9	150	115.9	39	262	56	36
2793	Carrington, ND	2ND39907	2	43.9	96.9	50	83.5	2.0	1	11.0	5.35	49.4	134	104.1	55	249	65	36
2794	Carrington, ND	2ND39909	2	46.6	99.0	47	83.0	2.4	1	11.2	5.56	52.6	145	113.3	46	269	65	36
2795	Tetonia, ID	ABI Eagle	2	38.8	93.8	71	81.8	1.7	1	12.2	5.38	44.8	175	86.6	79	240	67	31
2796	Tetonia, ID	AC Metcalfe	2	38.3	91.4	75	79.3	1.7	1	13.8	5.81	45.4	212	99.7	62	256	47	18
2797	Tetonia, ID	CDC Copeland	2	40.3	95.1	74	79.4	1.6	1	12.9	5.48	43.9	186	105.5	48	227	66	23
2798	Tetonia, ID	MERIT 57	2	35.7	87.4	73	80.1	1.9	1	13.2	5.58	45.5	195	94.5	96	229	55	19
2799	Tetonia, ID	M69	2	37.3	88.8	67	79.2	1.8	1	12.3	5.26	45.3	155	87.3	35	242	57	14
2800	Tetonia, ID	M179	2	39.0	97.1	57	81.2	2.5	1	12.3	6.07	51.9	150	92.3	16	294	55	23
2801	Tetonia, ID	ABI Voyager	2	41.6	97.6	73	80.6	2.0	1	12.8	5.87	49.4	187	100.8	76	261	57	25
2802	Tetonia, ID	11ARS162-4	2	38.4	94.9	74	80.4	1.8	1	11.7	5.56	48.6	195	81.5	99	253	59	23
2803	Tetonia, ID	11ARS183-9	2	40.8	97.1	72	81.9	2.2	1	11.7	5.64	49.5	148	88.8	49	253	60	30
2804	Tetonia, ID	15ARS010-5	2	39.0	94.7	72	79.0	1.6	1	13.1	5.41	41.5	167	75.2	77	210	54	23
2805	Tetonia, ID	15ARS191-3	2	38.1	90.7	68	78.8	1.8	1	14.4	5.39	40.1	186	90.1	100	216	51	23
2806	Tetonia, ID	CONRAD MALT CHECK	2	40.7	97.7	90	84.3	1.9	1	12.3	5.88	50.8	124	103.7	157	260	53	23
2807	Tetonia, ID	16ARS039-0	2	42.8	96.4	73	81.7	1.9	1	12.1	5.85	50.8	169	98.3	56	250	61	31
2808	Tetonia, ID	16ARS067-13	2	39.0	92.8	71	79.7	1.8	1	13.0	5.60	44.9	154	95.5	28	257	55	24
2809	Tetonia, ID	17ARS069-1	2	43.8	97.1	71	80.5	2.0	1	12.6	5.51	45.9	153	94.4	80	225	67	26
2810	Tetonia, ID	17ARS072-5	2	37.7	94.5	62	80.5	2.1	1	12.4	6.00	50.9	162	96.5	52	268	50	21
2811	Tetonia, ID	17ARS103-4	2	42.3	96.1	70	80.5	1.8	1	11.4	5.48	50.9	135	93.3	73	248	62	31
2812	Tetonia, ID	17ARS105-1	2	37.1	60.5	86	88.1	1.9	1	12.7	6.04	48.8	161	91.8	19	244	48	21
2813	Tetonia, ID	17ARS105-2	2	35.9	37.1	83	86.8	2.1	2	12.2	6.06	51.5	159	79.8	66	263	47	20
2814	Tetonia, ID	17ARS105-7	2	33.7	47.8	82	86.9	2.1	2	12.8	6.06	47.7	182	87.1	30	274	47	20
2815	Tetonia, ID	17ARS106-2	2	36.9	63.2	79	88.4	2.1	2	11.9	5.93	50.5	183	118.2	23	265	50	20
2816	Tetonia, ID	17ARS106-5	2	36.5	57.4	78	88.3	2.0	1	12.0	5.84	50.0	169	127.2	17	262	51	21
2817	Tetonia, ID	17ARS106-9	2	36.4	56.8	81	86.0	1.8	1	12.3	5.75	48.8	178	118.1	25	233	51	21
2818	Tetonia, ID	17ARS107-1	2	33.4	48.2	84	87.8	2.1	1	13.9	5.92	43.5	183	78.3	22	272	46	24
2819	Tetonia, ID	17ARS107-6	2	34.9	50.0	82	86.1	1.8	1	14.5	5.99	42.3	206	81.2	26	257	46	26
2820	Tetonia, ID	17ARS107-9	2	33.8	49.6	85	86.0	1.7	2	13.6	5.61	42.8	215	79.5	46	225	45	25
2821	Tetonia, ID	17ARS109-1	2	36.1	58.9	76	86.7	1.9	1	13.8	6.32	47.9	249	88.3	24	277	38	21
2822	Tetonia, ID	17ARS109-3	2	35.3	63.4	80	87.6	1.9	1	12.6	6.18	49.7	220	89.0	19	284	48	21
2823	Tetonia, ID	17ARS109-4	2	35.8	55.0	85	86.9	2.1	2	13.6	6.37	48.2	195	83.0	23	266	37	20
2824	Tetonia, ID	17ARS109-6	2	35.1	64.3	78	87.8	1.9	1	13.5	6.36	50.5	252	94.8	17	295	43	21
2825	Tetonia, ID	18S117-16	2	42.4	96.3	68	80.1	1.8	1	13.2	5.88	45.5	202	100.7	41	260	58	26
2826	Tetonia, ID	18S117-46	2	40.8	92.2	61	80.4	2.3	2	10.7	5.27	50.5	161	78.0	107	236	51	25
2827	Tetonia, ID	18S117-48	2	45.5	92.9	72	79.4	1.8	2	14.1	5.66	41.3	185	88.9	225	232	42	18
2828	Tetonia, ID	18S117-54	2	42.8	94.4	74	80.3	1.7	1	12.9	5.67	47.2	176	90.2	160	261	51	19
2829	Tetonia, ID	18S117-79	2	44.7	96.0	77	79.7	1.8	1	13.4	5.52	42.5	181	89.7	152	233	55	22
2830	Tetonia, ID	18S117-86	2	42.9	89.8	69	78.8	1.8	1	14.0	5.51	39.8	187	87.6	151	223	40	17
2831	Tetonia, ID	18S117-90	2	42.9	95.9	74	79.4	1.5	1	12.9	5.11	40.4	187	85.2	165	208	55	19
2832	Tetonia, ID	18S117-117	2	40.1	86.0	72	80.2	1.5	1	10.7	4.81	45.1	176	90.2	208	187	50	24
2833	Tetonia, ID	18S117-120	2	39.0	85.7	69	79.5	1.9	1	12.8	5.11	42.8	184	78.5	158	219	55	17
2834	Tetonia, ID	18S117-124	2	42.0	92.6	73	79.3	1.5	1	13.4	5.26	41.1	184	83.9	177	224	52	19
2835	Tetonia, ID	18S117-134	2	41.1	86.5	70	78.6	1.7	1	13.0	5.20	42.4	176	75.9	167	218	54	16
2836	Tetonia, ID	18S117-151	2	43.6	95.4	75	80.1	1.5	1	12.8	5.05	40.9	155	91.9	227	209	58	24
2837	Tetonia, ID	18S117-165	2	43.0	94.4	72	79.0	1.4	1	13.7	5.24	38.8	194	83.4	174	199	40	20
2838	Tetonia, ID	CONRAD MALT CHECK	2	41.0	98.2	90	84.9	1.9	1	11.5	5.64	50.5	137	111.3	164	245	53	23
2839	Tetonia, ID	18S117-185	2	40.5	90.5	62	80.5	2.5	2	11.7	5.30	48.3	142	74.1	210	233	53	20
2840	Tetonia, ID	18S117-193	2	40.2	87.5	70	79.5	1.6	1	13.1	4.53	36.8	165	89.2	154	161	38	27
2841	Tetonia, ID	18S117-198	2	41.7	90.3	74	78.1	1.3	1	13.6	4.59	35.4	174	75.0	222	192	35	25
2842	Tetonia, ID	12ARS033-5	2	45.0	97.7	70	80.0	1.7	1	14.4	5.17	37.1	185	96.4	136	201	46	23

2022 Crop Year Breeders' Submissions

Lab No.	Location	Variety or Selection	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agrton)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (*ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)	Adjunct Quality Score	All Malt Quality Score
2843	Tetonia, ID	12ARS034-6	2	41.1	91.2	74	78.6	1.5	1	13.6	4.62	34.8	167	64.9	165	159	32	24
2844	Tetonia, ID	12ARS034-8	2	36.3	87.1	74	80.4	1.6	1	12.8	4.74	38.1	185	78.4	177	171	39	22
2845	Minot, ND	CONLON	2	43.4	97.8	54	80.9	1.6	1	12.5	4.53	37.3	143	79.9	339	165	46	32
2846	Minot, ND	PINNACLE	2	43.6	97.9	47	81.9	1.6	1	10.9	4.26	40.7	118	69.5	353	150	46	50
2847	Minot, ND	ND GENESIS	2	43.5	97.5	51	82.0	1.7	1	11.7	4.60	39.7	123	81.5	336	164	49	39
2848	Minot, ND	AAC SYNERGY	2	43.5	97.1	54	82.5	3.3	1	12.4	5.94	50.4	130	112.6	44	273	61	31
2849	Minot, ND	AAC CONNECT	2	44.2	95.2	52	82.7	2.2	1	12.1	5.16	42.8	137	110.7	188	197	61	32
2850	Minot, ND	EXPLORER	2	42.6	93.3	45	80.4	2.7	1	12.2	4.69	40.8	113	94.3	36	193	58	44
2851	Minot, ND	ABI CARDINAL	2	42.9	97.5	44	81.2	2.3	1	14.7	5.45	37.9	156	107.2	188	226	48	22
2852	Minot, ND	BREWSKI	2	43.2	96.9	48	81.0	1.9	1	11.4	4.66	41.2	124	93.4	113	172	57	42
2853	Minot, ND	2ND32529	2	45.6	97.8	51	82.5	2.1	1	11.3	5.15	47.9	135	104.7	38	205	63	36
2854	Minot, ND	2ND34634	2	47.9	98.8	47	81.7	1.9	1	12.7	5.06	41.3	143	103.7	163	216	63	29
2855	Minot, ND	2ND36638	2	46.7	98.1	47	82.4	1.6	1	11.7	4.54	41.2	135	78.7	82	160	61	46
2856	Minot, ND	2ND36642	2	49.0	98.7	46	82.8	1.9	1	11.0	4.56	45.4	129	73.3	52	162	56	49
2857	Minot, ND	2ND37111	2	45.6	96.7	52	84.0	1.8	1	10.9	4.83	47.4	131	95.2	119	198	54	35
2858	Minot, ND	2ND37130	2	46.9	98.2	52	83.8	1.8	1	10.5	4.74	48.7	120	94.6	110	192	50	40
2859	Minot, ND	2ND37568	2	43.0	97.2	50	82.2	1.8	1	11.2	4.74	44.5	123	83.9	88	194	64	42
2860	Minot, ND	2ND38344	2	37.5	85.5	52	81.3	1.6	1	12.8	5.04	39.8	131	82.1	177	188	49	20
2861	Minot, ND	2ND38738	2	43.8	97.6	52	80.9	1.7	1	11.5	4.92	44.0	153	96.6	152	187	58	30
2862	Minot, ND	2ND38752	2	45.0	95.7	47	82.0	2.1	1	11.0	5.05	47.6	112	87.8	135	193	51	42
2863	Minot, ND	2ND38959	2	43.8	97.0	46	82.1	2.0	1	10.4	4.79	47.3	134	105.2	122	189	50	40
2864	Minot, ND	2ND39010	2	47.4	98.1	51	82.4	1.8	1	11.4	5.03	46.7	124	111.2	77	209	68	36
2865	Minot, ND	2ND39092	2	42.1	97.1	49	81.6	1.6	1	11.6	4.65	41.9	116	98.5	121	176	54	45
2866	Minot, ND	2ND39256	2	45.1	98.3	52	82.8	1.9	1	10.6	4.96	50.3	138	108.8	96	216	60	36
2867	Minot, ND	2ND39385	2	48.3	98.9	47	81.9	2.1	1	11.3	4.73	43.1	120	91.3	108	208	57	38
2868	Minot, ND	2ND39424	2	43.8	97.0	51	82.7	1.9	1	11.5	4.99	46.9	121	99.0	187	203	61	29
2869		CONRAD MALT CHECK	2	41.5	97.9	88	84.7	1.7	1	12.3	5.18	42.6	132	104.3	130	232	65	31
2870	Minot, ND	2ND39874	2	46.5	97.9	49	82.1	2.0	1	10.1	4.83	48.9	102	79.3	105	217	53	44
2871	Minot, ND	2ND39881	2	45.0	97.6	52	82.8	2.2	1	12.3	4.82	42.1	124	97.3	118	198	64	35
2872	Minot, ND	2ND39907	2	46.0	95.8	49	81.5	2.1	1	11.4	4.68	44.0	112	90.1	107	194	57	43
2873	Minot, ND	2ND39909	2	45.9	97.8	50	82.1	2.4	1	11.0	4.78	45.8	119	98.1	99	202	61	39
2874	Powell, WY	ABI Eagle	2	41.8	97.2	68	83.7	2.1	1	10.9	5.14	51.3	132	94.6	67	247	59	35
2875	Powell, WY	AC Metcalfe	2	40.9	97.1	73	81.8	1.9	1	12.8	5.29	43.2	152	102.2	51	249	69	33
2876	Powell, WY	CDC Copeland	2	42.3	96.1	72	80.8	1.8	1	11.7	5.55	49.1	142	92.0	23	225	62	26
2877	Powell, WY	MERIT 57	2	40.3	95.2	65	81.6	1.7	1	11.1	5.10	49.3	136	89.9	93	207	62	35
2878	Powell, WY	M69	2	40.0	93.2	67	82.4	2.2	1	11.7	5.66	50.9	141	101.2	67	256	58	28
2879	Powell, WY	M179	2	40.0	94.2	64	81.2	1.6	1	12.8	5.03	41.0	143	95.4	41	226	67	28
2880	Powell, WY	ABI Voyager	2	37.7	92.4	65	82.1	1.9	1	11.5	5.32	48.0	156	111.7	101	234	56	22
2881	Powell, WY	11ARS162-4	2	43.0	98.1	71	82.3	1.7	1	11.7	5.42	48.9	157	89.1	75	236	65	31
2882	Powell, WY	11ARS183-9	2	40.9	96.1	71	82.7	1.8	1	11.6	5.31	49.7	157	95.2	58	242	64	30
2883	Powell, WY	15ARS010-5	2	42.1	98.5	71	81.7	1.6	1	11.5	5.10	46.5	142	79.3	103	217	66	32
2884	Powell, WY	15ARS191-3	2	39.0	96.4	64	81.7	1.8	1	11.8	5.02	43.7	149	93.4	121	208	61	27
2885	Powell, WY	16ARS039-0	2	42.1	97.4	69	83.0	1.7	1	12.2	5.30	45.7	135	100.9	45	227	70	31
2886	Powell, WY	16ARS067-13	2	40.3	93.0	65	81.9	1.6	1	10.7	5.12	50.8	125	101.9	34	222	59	35
2887	Powell, WY	17ARS069-1	2	42.9	98.9	72	82.5	1.9	1	12.0	5.41	47.1	144	105.7	47	230	65	31
2888	Powell, WY	17ARS072-5	2	40.6	96.7	66	82.7	1.6	1	10.6	5.27	51.9	114	98.2	64	203	54	42
2889	Powell, WY	17ARS103-4	2	43.8	96.1	70	81.8	1.6	1	11.5	5.36	48.9	133	98.4	78	232	65	31
2890	Soda Springs, ID	ABI Eagle	2	36.2	95.2	75	84.4	2.1	1	11.6	5.19	47.9	128	96.7	175	225	53	19
2891	Soda Springs, ID	AC Metcalfe	2	38.4	97.2	77	83.2	2.2	1	11.5	5.40	48.1	131	105.0	161	224	55	21
2892	Soda Springs, ID	CDC Copeland	2	41.6	99.1	79	81.8	2.2	1	11.4	5.41	49.2	142	98.9	142	189	58	34
2893	Soda Springs, ID	MERIT 57	2	36.6	96.2	75	83.6	2.0	1	11.1	5.28	49.8	128	104.3	192	214	53	24
2894	Soda Springs, ID	M69	2	38.5	95.4	70	81.4	1.8	1	11.6	5.21	47.9	138	95.7	149	223	58	19
2895	Soda Springs, ID	M179	2	39.8	98.2	67	82.4	2.2	1	13.7	5.79	42.7	135	90.1	176	251	46	26
2896	Soda Springs, ID	ABI Voyager	2	40.9	98.3	72	82.3	2.6	1	12.1	5.97	53.3	144	106.8	197	260	53	23
2897	Soda Springs, ID	11ARS162-4	2	38.0	95.3	76	83.4	2.1	1	11.5	5.50	49.1	153	95.7	173	237	55	26
2898	Soda Springs, ID	11ARS183-9	2	36.7	96.1	77	82.5	2.1	1	12.4	5.37	45.8	145	95.6	208	198	56	22
2899	Soda Springs, ID	15ARS010-5	2	38.5	98.8	76	81.5	1.5	1	13.5	5.09	38.9	140	80.7	332	196	48	22
2900		CONRAD MALT CHECK	2	41.5	98.7	90	84.7	1.7	1	12.6	5.64	48.3	130	110.0	127	221	56	26
2901	Soda Springs, ID	15ARS191-3	2	36.6	95.5	72	81.2	2.1	1	12.9	4.95	39.6	142	96.8	311	179	48	26
2902	Soda Springs, ID	16ARS039-0	2	37.8	96.9	72	82.9	2.3	1	11.2	5.33	50.1	124	101.7	191	226	53	24
2903	Soda Springs, ID	16ARS067-13	2	39.0	97.9	69	81.4	2.0	1	12.9	5.15	41.9	130	90.4	209	191	58	24
2904	Soda Springs, ID	17ARS069-1	2	37.8	96.5	74	81.9	2.1	1	11.9	5.25	45.7	147	100.1	258	217	58	19
2905	Soda Springs, ID	17ARS072-5	2	37.4	96.8	66	82.4	2.3	1	12.0	5.52	49.8	152	103.9	262	232	53	19
2906	Soda Springs, ID	17ARS103-4	2	38.7	95.0	70	81.2	2.1	1	12.3	5.29	43.3	137	92.3	307	205	58	19
2907	Fargo, ND	PINNACLE	2	41.9	96.9	42	81.6	2.6	1	11.7	5.06	45.1	100	84.8	463	191	53	29
2908	Fargo, ND	ND GENESIS	2	45.5	98.2	47	82.3	2.1	1	10.9	5.23	50.5	129	105.1	426	180	48	36

2022 Crop Year Breeders' Submissions

Lab No.	Location	Variety or Selection	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agrton)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (*ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)	Adjunct Quality Score	All Malt Quality Score
2909	Fargo, ND	AAC SYNERGY	2	42.0	93.6	52	81.8	2.5	1	14.4	6.14	44.9	153	116.1	245	250	45	26
2910	Fargo, ND	ESMA	2	43.9	96.5	43	82.2	2.3	1	13.1	5.79	45.4	147	100.8	54	247	61	31
2911	Fargo, ND	FRIFOX	2	40.5	94.5	44	82.1	2.7	1	13.1	5.35	42.1	130	88.1	189	209	55	28
2912	Fargo, ND	18/696/111	2	39.5	97.0	43	81.4	2.7	1	13.4	5.52	41.7	165	100.4	32	237	62	28
2913	Fargo, ND	15/556-5/9	2	42.6	97.5	45	81.5	2.4	2	13.0	5.30	41.1	157	89.0	264	215	57	28
2914	Fargo, ND	16/673/53	2	43.5	97.4	39	82.8	3.8	1	13.2	5.72	44.6	133	102.4	240	250	54	27
2915	Fargo, ND	16/581/98	2	44.0	97.2	41	82.5	2.8	1	12.1	5.59	47.2	157	113.2	45	270	65	31
2916	Fargo, ND	WINSTON	2	46.8	98.8	41	82.8	4.0	1	13.7	6.37	48.8	149	117.4	109	331	44	27
2917	Fargo, ND	15/700/4	2	43.0	96.7	44	82.3	2.6	1	13.1	5.49	43.3	124	98.5	247	243	58	27
2918	Fargo, ND	15/700/6	2	41.9	97.0	42	81.4	2.4	1	13.9	5.22	39.8	134	104.5	290	217	47	23
2919	Fargo, ND	15/529-1/13	2	44.5	99.0	42	83.0	2.9	1	13.7	5.76	42.6	143	111.2	124	266	52	32
2920	Fargo, ND	BC LEANDRA	2	42.6	93.7	41	81.8	2.6	1	13.2	5.70	44.6	162	128.4	52	253	61	34
2921	Fargo, ND	BC ELINOR	2	42.6	97.7	42	82.9	3.5	1	13.3	5.96	45.2	129	115.8	151	272	54	24
2922	Fargo, ND	KWS AMADORA	2	39.9	94.3	44	83.2	3.2	1	12.5	5.68	46.1	142	107.0	56	266	63	28
2923	Fargo, ND	KWS FANTEX	2	42.7	97.1	43	81.0	3.2	1	13.9	5.60	40.3	146	96.1	250	243	49	24
2924	Fargo, ND	KWS WILLIS	2	45.2	98.8	39	83.0	3.8	1	13.9	5.95	44.3	128	105.2	220	265	49	27
2925	Fargo, ND	THALIS	2	43.4	98.4	46	82.5	3.3	1	13.3	5.93	45.2	138	102.1	166	267	54	24
2926	Fargo, ND	EXP LORER	2	42.6	95.2	43	82.2	2.4	1	14.0	5.50	40.1	135	114.2	58	243	60	36
2927	Fargo, ND	KLARINETTE	2	44.0	98.4	43	82.8	2.7	1	14.7	5.88	42.6	154	95.7	162	264	49	29
2928	Fargo, ND	SC 2791 V1	2	41.9	97.2	49	81.1	2.3	1	13.1	5.42	42.2	95	77.8	217	229	50	26
2929	Fargo, ND	SC 3523 U2	2	43.0	98.1	45	82.5	2.9	1	13.9	5.90	44.1	138	92.7	85	284	56	34
2930	Fargo, ND	17/675/10	2	37.8	96.3	42	82.2	2.6	1	12.9	5.29	42.2	153	87.2	29	230	65	31
2931	Fargo, ND	CONRAD MALT CHECK	2	41.0	98.3	90	85.6	1.7	1	12.2	5.42	46.9	121	102.3	135	245	65	26
2932	Fargo, ND	18/712/102	2	40.3	93.9	46	83.3	3.2	1	13.2	5.80	45.7	140	101.6	25	270	60	30
2933	Fargo, ND	18/789/51	2	45.7	98.6	45	83.7	3.6	1	13.4	6.19	49.5	136	100.7	23	296	53	31
2934	Fargo, ND	18/795/17	2	42.1	97.0	44	83.3	2.7	1	12.1	5.42	45.4	135	95.8	61	246	70	31
2935	Fargo, ND	18/802/8	2	40.1	94.2	42	83.5	3.1	1	12.6	5.64	45.3	137	107.1	43	255	65	30
2936	Fargo, ND	128-41	2	45.5	97.8	41	82.6	2.9	1	13.2	5.82	46.5	144	96.1	138	256	57	27
2937	Fargo, ND	SC 10043 U31	2	42.3	98.3	44	82.2	2.7	1	13.1	5.73	43.7	129	95.1	210	255	54	27
2938	Fargo, ND	SC 120-7	2	44.4	96.7	44	82.8	4.3	1	12.2	6.60	54.9	116	106.1	44	325	55	34
2939	Fargo, ND	GRETA	2	41.0	96.9	47	83.8	2.5	1	13.4	5.79	43.6	157	104.4	57	267	60	33
2940	Kimberly, ID	Tarkalson001	2	38.7	97.4	77	81.4	2.6	2	9.5	4.67	50.5	91	78.8	81	203	43	30
2941	Kimberly, ID	Tarkalson002	2	43.0	95.5	67	82.4	2.3	1	12.7	5.49	44.7	117	88.1	27	264	67	37
2942	Kimberly, ID	Tarkalson003	2	42.2	92.1	62	81.1	2.3	1	14.0	5.79	43.2	131	91.4	28	272	56	29
2943	Kimberly, ID	Tarkalson004	2	46.8	98.7	70	83.5	2.3	1	11.5	5.11	47.4	90	89.1	19	240	58	36
2944	Kimberly, ID	Tarkalson005	2	48.4	99.0	71	83.5	2.3	1	10.9	5.15	49.6	88	88.0	17	253	53	36
2945	Kimberly, ID	Tarkalson006	2	42.6	93.3	65	81.5	2.5	1	14.8	5.91	42.2	123	86.2	30	284	56	36
2946	Kimberly, ID	Tarkalson007	2	44.2	98.7	78	82.0	2.0	1	10.2	4.95	53.5	88	88.0	20	226	53	41
2947	Kimberly, ID	Tarkalson008	2	42.4	95.7	64	81.7	2.3	1	12.6	5.83	46.9	113	89.5	42	273	63	38
2948	Kimberly, ID	Tarkalson009	2	43.7	98.5	76	81.3	2.1	1	9.8	4.83	52.3	84	86.8	18	228	53	36
2949	Kimberly, ID	Tarkalson010	2	42.3	94.6	67	82.1	2.5	1	12.5	5.30	45.1	105	77.2	15	296	67	38
2950	Kimberly, ID	Tarkalson011	2	41.6	92.1	63	80.4	2.6	1	13.6	5.72	42.5	114	86.1	20	317	49	37
2951	Kimberly, ID	Tarkalson012	2	48.4	99.0	71	83.2	2.0	1	10.9	4.90	45.5	94	92.0	15	256	58	36
2952	Kimberly, ID	Tarkalson013	2	47.3	98.5	71	82.5	2.0	1	11.3	4.96	45.3	96	89.1	16	267	63	39
2953	Kimberly, ID	Tarkalson014	2	41.8	98.7	80	81.3	1.6	1	9.2	4.41	51.1	88	91.8	12	204	46	37
2954	Kimberly, ID	Tarkalson015	2	40.8	91.4	63	79.7	2.1	1	13.1	5.29	43.6	115	82.7	22	263	58	33
2955	Kimberly, ID	Tarkalson016	2	40.8	91.8	62	79.7	2.2	1	14.7	5.58	38.8	123	90.6	30	283	51	26
2956	Kimberly, ID	Tarkalson017	2	42.3	98.9	79	81.1	1.7	1	9.0	4.42	50.9	79	88.6	17	208	47	38
2957	Kimberly, ID	Tarkalson018	2	41.7	92.9	67	80.2	2.3	1	14.4	5.57	39.2	124	90.6	31	306	51	30
2958	Kimberly, ID	Tarkalson019	2	45.8	98.3	70	82.1	2.2	1	11.8	5.04	44.7	94	82.9	20	266	63	34
2959	Kimberly, ID	Tarkalson020	2	44.6	94.9	66	80.9	2.1	1	14.0	5.37	40.1	110	85.9	25	277	54	38
2960	Kimberly, ID	Tarkalson021	2	47.1	99.4	82	83.9	1.6	1	8.7	4.27	54.2	74	90.2	22	186	47	46
2961	Kimberly, ID	Tarkalson022	2	44.3	99.4	82	82.7	1.9	1	9.1	4.42	52.8	71	79.4	23	190	47	46
2962	Kimberly, ID	CONRAD MALT CHECK	2	40.9	98.3	89	85.5	1.6	1	11.0	5.21	49.4	121	99.4	51	242	59	35
2963	Kimberly, ID	Tarkalson023	2	48.6	98.8	74	83.5	2.1	1	11.6	5.02	44.8	101	89.9	12	255	67	41
2964	Kimberly, ID	Tarkalson024	2	47.9	99.5	82	82.8	1.9	1	7.9	4.59	60.3	90	87.6	46	220	49	39
2965	Kimberly, ID	Tarkalson025	2	48.3	99.4	80	84.0	1.8	1	9.6	4.61	52.4	87	87.7	29	217	49	39
2966	Kimberly, ID	Tarkalson026	2	44.1	96.4	63	82.1	2.2	1	12.1	5.41	46.9	113	82.9	25	259	67	38
2967	Kimberly, ID	Tarkalson027	2	48.4	99.3	78	83.7	1.9	1	9.9	4.72	48.4	79	83.1	33	227	49	41
2968	Kimberly, ID	Tarkalson028	2	40.0	98.0	82	80.4	2.4	1	9.7	4.67	51.5	56	88.7	20	216	45	33
2969	Kimberly, ID	Tarkalson029	2	43.7	99.2	79	82.5	1.8	1	9.2	4.26	48.3	66	79.3	16	177	44	50
2970	Kimberly, ID	Tarkalson030	2	49.3	99.2	76	83.7	2.1	1	8.8	4.89	60.5	78	79.9	18	226	53	36
2971	Kimberly, ID	Tarkalson031	2	42.4	98.6	82	81.7	1.7	1	8.1	4.52	63.3	83	77.1	20	212	49	39
2972	Kimberly, ID	Tarkalson032	2	45.5	99.0	79	83.0	1.7	1	8.5	4.19	53.0	66	84.0	38	169	44	50
2973	Kimberly, ID	Tarkalson033	2	47.9	99.5	76	83.4	1.8	1	10.8	4.90	47.1	82	80.5	20	239	53	36
2974	Kimberly, ID	Tarkalson034	2	47.4	99.3	81	83.2	1.7	1	9.1	4.55	50.8	76	84.6	29	235	49	39

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Lab No.	Location	Variety or Selection	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agtron)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (*ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)	Adjunct Quality Score	All Malt Quality Score
2975	Kimberly, ID	Tarkalson035	2	44.1	99.2	80	81.6	1.7	1	10.2	4.64	47.2	103	88.2	30	226	53	51
2976	Kimberly, ID	Tarkalson036	2	47.3	99.3	80	83.9	1.6	1	7.7	4.51	60.2	91	90.5	22	217	49	39
2977	Kimberly, ID	Tarkalson037	2	46.9	97.2	68	82.0	2.0	1	11.4	5.42	49.8	118	90.1	24	265	62	39
2978	Kimberly, ID	Tarkalson038	2	46.5	99.1	78	83.1	1.8	1	8.8	4.67	56.6	88	87.5	45	210	49	39
2979	Kimberly, ID	Tarkalson039	2	46.4	99.4	81	82.7	1.8	1	7.4	4.36	64.6	72	85.0	46	193	47	46
2980	Kimberly, ID	Tarkalson040	2	41.5	98.7	82	82.0	1.7	1	7.8	4.51	62.0	87	86.5	20	211	48	38
2981	Kimberly, ID	Tarkalson041	2	49.0	98.9	73	82.9	1.9	1	9.5	5.19	58.6	92	84.8	18	261	53	36
2982	Kimberly, ID	Tarkalson042	2	47.7	99.2	80	82.8	1.9	1	7.6	4.56	66.2	75	85.4	27	217	49	39
2983	Kimberly, ID	Tarkalson043	2	46.8	99.4	79	82.7	1.8	1	8.1	4.63	64.2	81	81.6	22	227	49	39
2984	Kimberly, ID	Tarkalson044	2	46.1	97.7	72	82.2	2.4	1	10.2	5.37	56.8	100	85.8	20	265	53	44
2985	Kimberly, ID	Tarkalson045	2	46.0	99.4	78	81.9	2.4	1	8.5	4.67	61.4	77	79.4	55	221	49	39
2986	Kimberly, ID	Tarkalson046	2	46.0	98.7	77	83.1	2.5	1	8.3	4.75	61.0	83	83.3	22	240	49	36
2987	Kimberly, ID	Tarkalson047	2	44.9	96.5	66	81.3	2.7	1	11.7	5.55	50.4	116	89.6	18	281	62	29
2988	Kimberly, ID	Tarkalson048	2	42.2	98.7	67	80.7	2.4	1	13.4	5.97	45.3	120	82.1	18	302	55	29
2989	Kimberly, ID	Tarkalson049	2	47.9	93.1	63	74.6	3.1	1	18.1	7.04	39.7	181	87.0	11	388	38	26
2990	Kimberly, ID	Tarkalson050	2	41.8	98.9	67	77.7	2.7	1	16.4	6.69	43.3	136	84.2	13	358	42	23
2991	Kimberly, ID	Tarkalson051	2	33.4	99.0	66	79.5	2.5	1	13.9	6.29	45.9	116	80.2	37	323	42	22
2992	Kimberly, ID	Tarkalson052	2	41.1	98.4	77	82.0	2.9	1	7.8	4.83	64.7	77	82.6	26	243	52	35
2993		CONRAD MALT CHECK	2	40.9	98.7	89	84.9	2.4	1	10.8	5.44	54.6	110	95.1	187	251	45	31
2994	Kimberly, ID	Tarkalson053	2	32.5	70.9	65	74.0	2.4	1	16.6	6.08	38.0	156	76.9	33	282	28	14
2995	Kimberly, ID	Tarkalson054	2	38.9	97.6	72	78.8	2.2	1	12.4	5.70	48.7	129	78.9	25	271	52	18
2996	Kimberly, ID	Tarkalson055	2	42.6	99.6	77	82.1	2.2	1	10.1	5.19	53.3	100	85.6	21	248	57	48
2997	Kimberly, ID	Tarkalson056	2	34.2	83.8	67	75.3	2.3	1	15.0	5.71	38.3	153	73.2	29	260	31	17
2998	Kimberly, ID	Tarkalson057	2	41.9	98.6	76	82.6	2.7	1	7.8	4.94	65.1	82	83.1	32	246	52	35
2999	Kimberly, ID	Tarkalson058	2	43.2	99.1	76	82.6	2.1	1	8.7	4.94	61.7	95	87.4	21	242	53	36
3000	Kimberly, ID	Tarkalson059	2	40.7	99.4	75	80.9	2.5	1	9.6	5.44	59.3	114	91.0	37	263	53	37
3001	Kimberly, ID	Tarkalson060	2	33.0	77.8	63	73.7	2.7	1	17.8	6.28	35.3	194	88.1	20	301	28	14
3002	Kimberly, ID	Tarkalson061	2	40.3	96.0	69	79.1	2.3	1	13.8	5.79	43.3	130	82.4	30	250	49	23
3003	Kimberly, ID	Tarkalson062	2	40.4	96.0	64	80.8	2.1	1	12.4	5.74	48.4	131	83.8	32	276	57	25
3004	Kimberly, ID	Tarkalson063	2	39.5	97.1	66	76.9	2.3	1	15.0	6.00	41.5	161	85.6	20	297	43	23
3005	Kimberly, ID	Tarkalson064	2	34.0	85.6	68	76.8	2.3	1	16.2	5.98	37.5	149	74.0	21	284	34	20
3006	Kimberly, ID	Tarkalson065	2	42.8	99.3	76	80.8	2.6	1	9.9	5.42	56.0	112	91.1	13	263	54	43
3007	Kimberly, ID	Tarkalson066	2	43.1	99.4	76	82.4	2.3	1	8.3	4.97	62.2	96	90.5	26	241	53	39
3008	Kimberly, ID	Tarkalson067	2	43.0	99.3	77	82.7	2.7	1	8.3	5.05	68.3	94	90.3	42	228	53	36
3009	Kimberly, ID	Tarkalson068	2	32.4	72.0	61	73.9	2.5	1	18.2	6.28	35.3	192	83.4	31	275	28	14
3010	Kimberly, ID	Tarkalson069	2	40.1	98.5	65	78.1	2.4	1	15.6	6.18	40.0	146	86.1	16	272	41	25
3011	Kimberly, ID	Tarkalson070	2	43.6	98.7	70	80.1	2.1	1	13.6	5.96	46.5	126	85.2	31	276	53	26
3012	Kimberly, ID	Tarkalson071	2	42.8	98.0	71	81.1	2.0	1	12.1	5.68	47.6	126	81.3	13	250	61	26
3013	Kimberly, ID	Tarkalson072	2	40.9	98.1	70	79.7	2.1	1	13.9	6.10	45.8	132	79.2	22	275	49	23
3014	Kimberly, ID	Tarkalson073	2	39.2	95.6	66	80.3	2.4	1	13.0	6.05	48.0	131	84.2	12	288	47	23
3015	Kimberly, ID	Tarkalson074	2	41.2	98.9	67	78.5	2.7	1	15.2	6.36	42.7	137	85.0	13	297	46	25
3016	Kimberly, ID	Tarkalson075	2	33.9	81.6	62	74.0	2.5	1	18.1	6.28	35.1	185	81.4	19	290	28	14
3017	Kimberly, ID	Tarkalson076	2	43.7	98.9	77	81.9	2.9	1	9.0	5.15	62.9	85	79.6	69	228	53	36
3018	Kimberly, ID	Tarkalson077	2	43.1	99.4	76	82.2	2.6	1	8.4	4.69	62.6	82	84.2	35	188	47	42
3019	Kimberly, ID	Tarkalson078	2	42.1	99.3	73	79.7	2.8	1	12.6	5.84	46.7	125	89.6	24	280	63	24
3020	Kimberly, ID	Tarkalson079	2	37.3	95.9	66	76.0	2.3	1	16.3	5.77	36.1	152	76.3	38	232	36	19
3021	Crookston, MN	10001	2	37.5	94.1	47	82.8	2.8	1	8.3	4.43	56.6	89	73.2	57	166	39	48
3022	Crookston, MN	10002	2	37.8	94.8	51	81.7	2.3	1	8.9	4.22	50.9	101	81.1	125	158	39	48
3023	Crookston, MN	20045	2	40.0	97.2	48	81.7	2.4	1	9.4	4.55	53.4	122	89.5	190	178	41	36
3024		TRADITION MALT CHECK	6	38.7	96.6	61	81.4	2.2	1	10.5	5.10	50.4	185	96.9	67	233	56	N/A
3025	Crookston, MN	20048	2	38.1	95.4	52	83.0	2.6	1	10.2	4.31	43.6	92	73.6	102	150	42	50
3026	Crookston, MN	30079	2	36.4	91.6	47	82.9	3.1	1	10.2	4.38	44.6	96	75.5	84	184	47	52
3027	Crookston, MN	30086	2	39.5	95.5	48	81.7	2.1	1	12.0	4.53	40.7	123	85.5	212	167	51	36
3028	Crookston, MN	40097	2	39.7	96.8	55	82.0	2.1	2	10.1	4.37	44.2	120	84.7	123	165	45	53
3029	Crookston, MN	20052	6	31.8	82.0	42	74.4	n.d.	3	20.5	6.09	31.2	213	77.5	117	247	35	N/A
3030	Crookston, MN	20055	6	34.2	95.0	52	79.9	1.8	1	11.9	4.55	41.5	204	83.4	131	165	49	N/A
3031	Crookston, MN	30073	6	34.0	96.5	51	80.5	n.d.	3	12.8	4.71	38.3	208	85.1	177	182	44	N/A
3032	Crookston, MN	40102	6	33.6	96.2	52	80.5	n.d.	3	11.5	4.49	41.2	198	81.4	134	172	42	N/A
3033	Sidney, NB	214	2	33.6	81.6	52	74.9	2.1	1	18.1	5.52	31.8	192	93.9	232	207	26	7
3034	Sidney, NB	513	2	33.7	87.1	46	77.1	3.0	2	17.4	5.85	34.7	216	80.6	97	264	33	16
3035	Sidney, NB	517	2	33.1	77.5	52	76.6	1.9	1	15.6	5.44	36.4	190	93.5	259	239	28	7
3036	Sidney, NB	618	2	30.6	77.3	47	74.2	2.7	2	20.9	6.07	30.4	233	72.7	107	264	23	12
3037	Sidney, NB	919	2	30.6	75.9	48	73.7	2.3	1	21.2	6.14	29.4	248	73.1	129	246	24	13
3038	Sidney, NB	1314	2	28.8	63.8	49	72.6	3.7	2	21.8	7.15	34.2	261	80.4	93	333	27	13
3039	Sidney, NB	1316	2	31.5	64.5	58	74.1	1.7	1	18.4	5.40	29.6	185	79.5	289	196	26	10
3040	Sidney, NB	1420	2	32.6	75.1	57	75.3	1.7	1	18.8	5.49	30.3	176	91.8	301	213	28	7

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Lab No.	Location	Variety or Selection	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agron)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (*ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)	Adjunct Quality Score	All Malt Quality Score
3041	Sidney, NB	520	6	27.5	62.0	59	75.9	1.7	1	19.0	5.93	31.5	278	85.9	194	265	24	N/A
3042	Sidney, NB	615	6	27.6	67.4	55	75.7	1.7	1	17.3	5.93	34.7	277	88.5	132	251	27	N/A
3043	Sidney, NB	914	6	28.7	68.6	60	74.8	1.6	1	18.0	5.88	33.6	271	88.8	130	252	29	N/A
3044	Sidney, NB	1318	6	27.9	55.4	61	75.2	1.5	1	16.9	5.73	34.5	266	84.0	167	243	27	N/A
3045	Sidney, NB	410	6	30.7	87.4	54	75.6	1.8	1	15.5	5.23	35.1	186	69.9	108	223	44	N/A
3046	Sidney, NB	502	6	29.5	89.3	56	74.1	1.7	1	16.4	5.27	32.8	191	68.8	122	225	38	N/A
3047	Sidney, NB	804	6	32.0	88.4	50	71.4	2.3	1	18.4	5.11	28.7	173	64.5	250	217	33	N/A
3048	Sidney, NB	901	6	27.1	79.8	55	72.3	1.8	1	17.4	5.27	31.1	203	66.7	91	192	36	N/A
3049	Sidney, NB	904	6	30.3	70.7	57	71.1	2.5	1	18.8	5.77	31.4	142	71.2	170	257	28	N/A
3050	Sidney, NB	1611	6	30.9	85.4	57	71.3	2.0	1	16.1	4.88	30.9	137	60.7	284	179	25	N/A
3051	Custar, OH	2.07	2	31.3	89.0	42	79.6	3.8	1	13.3	6.08	47.3	113	82.4	291	344	33	17
3052	Custar, OH	2.33	2	30.9	86.2	44	79.7	4.1	1	13.7	6.35	49.4	94	98.7	295	375	24	10
3053	Custar, OH	3.27	2	34.8	90.0	48	78.3	3.0	1	13.4	5.32	40.7	88	93.1	443	254	40	14
3054	Custar, OH	5.13	2	34.2	90.4	46	79.2	2.8	1	11.9	5.18	47.4	87	96.6	391	212	40	9
3055		CONRAD MALT CHECK	2	41.4	98.5	88	85.0	1.8	1	11.9	5.23	45.6	125	104.5	128	264	65	26
3056	Custar, OH	5.3	2	32.9	88.2	44	79.3	3.6	1	15.8	6.23	41.0	112	101.8	295	357	30	19
3057	Custar, OH	6.1	2	35.2	92.1	42	79.2	3.3	1	11.7	5.35	48.7	88	100.3	405	252	40	9
3058	Custar, OH	5.15	2	40.8	96.6	48	81.4	2.4	1	13.8	5.11	39.8	148	69.6	78	217	54	33
3059	Custar, OH	5.5	2	38.1	92.5	48	81.1	2.0	1	13.9	4.89	36.6	160	70.2	96	229	52	29
3060	Custar, OH	7.26	2	38.4	93.3	49	81.1	1.7	1	12.3	4.83	42.5	163	79.8	65	216	67	28
3061	Custar, OH	1.07	6	27.0	76.2	54	78.2	1.9	1	15.0	5.86	39.3	194	102.8	231	309	34	N/A
3062	Custar, OH	2.28	6	30.0	86.9	57	79.0	1.9	1	14.8	5.53	37.8	180	99.7	218	281	42	N/A
3063	Custar, OH	5.14	6	28.3	84.3	53	78.8	2.2	1	15.6	5.78	38.5	196	95.7	196	276	38	N/A
3064	Custar, OH	2.19	6	30.8	86.8	47	80.6	1.6	1	11.0	4.33	40.5	136	72.0	255	185	37	N/A
3065	Custar, OH	2.24	6	30.7	89.1	46	80.6	1.5	1	11.4	4.13	38.2	126	68.5	264	158	37	N/A
3066	Custar, OH	2.5	6	36.5	95.1	48	80.4	2.4	1	11.0	4.37	41.1	113	58.1	289	144	34	N/A
3067	Custar, OH	2.6	6	30.4	84.5	48	80.4	1.8	1	11.2	4.44	40.1	130	65.3	285	165	37	N/A
3068	Custar, OH	4.17	6	32.2	89.7	53	80.6	2.1	1	10.0	4.58	46.6	94	66.8	317	177	39	N/A
3069	Custar, OH	5.23	6	31.9	85.2	52	79.5	2.2	2	10.8	4.73	44.1	93	64.8	377	182	37	N/A
3070	Custar, OH	6.17	6	35.8	93.7	50	80.6	2.4	1	12.0	4.73	40.4	127	64.7	253	162	43	N/A
3071	Custar, OH	6.23	6	36.0	94.9	50	80.2	2.3	1	11.8	4.73	41.7	114	58.1	314	177	39	N/A
3072	Custar, OH	7.3	6	30.6	85.7	53	79.5	2.2	2	10.6	4.62	45.5	86	60.3	347	179	37	N/A
3073	Custar, OH	7.36	6	32.3	87.2	54	78.7	2.4	2	11.4	4.59	41.5	84	53.2	352	171	30	N/A
3074	Arlington, WI	120	2	42.6	99.3	56	81.4	n.d.	3	11.7	5.03	44.0	89	62.3	446	182	52	21
3075	Arlington, WI	123	2	41.7	98.1	54	82.5	2.2	2	11.4	4.73	43.0	76	64.2	190	188	48	31
3076	Arlington, WI	211	2	41.2	98.9	53	81.5	n.d.	3	11.2	4.97	44.6	84	68.0	347	178	48	39
3077	Arlington, WI	228	2	39.6	98.3	52	82.5	n.d.	3	10.9	4.69	43.7	72	60.1	237	188	40	31
3078	Arlington, WI	303	2	42.4	99.2	57	82.6	n.d.	3	11.3	5.04	44.9	87	67.2	324	160	49	40
3079	Arlington, WI	314	2	39.2	98.3	51	83.4	2.3	1	11.0	4.91	48.4	72	63.2	191	185	46	27
3080	Arlington, WI	403	2	41.8	99.2	57	82.5	n.d.	3	11.4	5.02	46.4	82	59.7	422	167	48	31
3081	Arlington, WI	406	2	39.0	97.3	56	82.6	2.0	1	12.0	4.87	40.8	86	52.9	204	193	51	27
3082	Arlington, WI	143	2	44.5	99.0	50	81.4	n.d.	3	13.3	5.46	42.3	139	69.9	49	235	63	32
3083	Arlington, WI	221	2	44.3	98.4	55	80.9	1.9	2	14.1	5.69	41.5	159	72.7	81	225	52	33
3084	Arlington, WI	341	2	44.5	99.3	54	80.4	n.d.	3	14.0	5.67	41.1	144	69.7	65	237	51	32
3085	Arlington, WI	413	2	44.5	99.1	57	81.5	n.d.	3	12.7	5.51	44.8	135	61.9	39	237	68	25
3086		TRADITION MALT CHECK	6	38.1	96.3	61	81.9	2.1	1	12.5	5.78	47.8	158	97.0	138	264	57	N/A
3087	Arlington, WI	111	6	36.0	96.9	60	80.7	1.9	3	13.8	5.50	41.6	172	77.7	280	236	46	N/A
3088	Arlington, WI	210	6	33.3	95.8	62	80.3	2.1	2	12.5	5.46	44.2	154	78.3	218	232	62	N/A
3089	Arlington, WI	305	6	32.8	95.1	58	79.7	n.d.	3	14.1	5.58	40.9	168	76.0	219	232	46	N/A
3090	Arlington, WI	425	6	32.1	94.8	58	79.8	3.8	2	13.6	5.47	41.1	158	75.7	178	232	47	N/A
3091	Arlington, WI	110	6	38.9	96.5	52	79.1	2.0	1	11.8	4.14	38.3	108	55.0	439	145	39	N/A
3092	Arlington, WI	111	6	36.6	98.3	57	80.6	2.9	2	11.1	4.35	39.4	111	62.2	291	175	33	N/A
3093	Arlington, WI	124	6	42.3	98.5	59	79.1	2.0	1	11.8	4.37	38.5	97	59.5	490	163	39	N/A
3094	Arlington, WI	205	6	37.6	96.3	53	79.2	1.9	1	10.9	3.98	37.0	103	52.7	422	122	34	N/A
3095	Arlington, WI	226	6	36.3	98.4	57	80.6	2.7	2	12.1	4.79	42.3	129	68.0	259	209	50	N/A
3096	Arlington, WI	247	6	40.9	98.6	58	78.8	2.1	1	10.9	4.12	38.8	83	59.3	481	176	31	N/A
3097	Arlington, WI	317	6	36.4	98.6	57	80.3	2.6	2	12.3	4.65	39.7	130	69.5	304	200	45	N/A
3098	Arlington, WI	319	6	40.6	98.2	58	79.0	2.5	1	11.1	4.08	39.1	77	58.7	494	168	31	N/A
3099	Arlington, WI	333	6	37.7	96.9	53	78.8	2.2	1	11.5	3.89	36.1	88	49.4	488	140	28	N/A
3100	Arlington, WI	404	6	42.2	99.2	57	79.3	2.0	1	11.1	4.27	39.2	85	57.7	484	177	34	N/A
3101	Arlington, WI	405	6	38.6	96.5	53	78.5	2.2	1	11.3	4.02	36.7	99	50.5	435	144	31	N/A
3102	Arlington, WI	406	6	36.2	98.7	53	80.1	3.0	2	12.1	4.59	39.9	110	66.5	328	177	38	N/A
3103	Wooster, OH	SL-2022-015	2	38.5	91.1	52	81.3	1.8	1	11.5	4.44	39.6	132	66.0	291	179	46	38
3104	Wooster, OH	SL-2022-017	2	37.9	95.9	55	78.6	1.4	1	13.1	4.48	35.0	136	61.7	398	168	33	24
3105	Wooster, OH	SL-2022-018	2	37.7	91.9	53	78.4	1.7	1	13.2	4.70	36.5	145	71.5	355	180	36	21
3106	Wooster, OH	SL-2022-019	2	39.6	94.8	53	78.7	2.2	1	13.2	4.81	38.0	127	66.5	344	202	42	17

2022 Crop Year Breeders' Submissions

Lab No.	Location	Variety or Selection	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agron)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (*ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)	Adjunct Quality Score	All Malt Quality Score
3107	Wooster, OH	SL-2022-020	2	36.4	89.9	58	79.6	1.6	1	12.5	4.39	35.9	139	58.6	355	177	39	25
3108	Wooster, OH	SL-2022-021	2	34.2	89.0	53	81.0	2.5	1	11.9	4.43	39.0	132	73.1	347	181	42	28
3109	Wooster, OH	SL-2022-022	2	37.5	93.2	51	79.4	n.d.	3	11.7	4.41	40.6	135	63.7	223	182	47	20
3110	Wooster, OH	SL-2022-023	2	37.0	89.3	52	79.3	n.d.	3	12.1	4.63	39.3	145	63.0	412	179	34	18
3111	Wooster, OH	SL-2022-024	2	39.5	90.6	50	77.8	1.9	1	13.4	4.61	36.4	125	57.6	436	171	31	22
3112	Wooster, OH	SL-2022-032	2	37.1	92.0	47	80.7	n.d.	3	12.5	4.34	35.4	128	64.4	519	147	39	23
3113	Wooster, OH	SL-2022-037	2	38.2	86.7	51	80.5	1.4	2	12.3	4.32	37.3	123	49.8	379	152	37	28
3114	Wooster, OH	SL-2022-056	2	38.7	90.7	55	77.8	1.8	2	12.5	4.28	36.8	107	53.8	509	122	32	25
3115	Wooster, OH	SL-2022-057	2	36.5	93.5	61	82.6	n.d.	3	11.3	4.83	44.3	128	67.4	542	168	51	35
3116	Wooster, OH	SL-2022-059	2	37.7	91.5	62	82.0	1.6	2	11.3	4.47	42.8	83	60.2	330	134	41	36
3117		CONRAD MALT CHECK	2	40.7	98.3	89	85.1	1.6	1	12.1	5.63	48.8	139	110.7	154	241	53	23
3118	Wooster, OH	SL-2022-060	2	32.4	85.8	58	80.6	n.d.	3	11.3	4.66	42.5	107	67.7	407	152	39	40
3119	Wooster, OH	SL-2022-061	2	43.9	96.8	49	81.5	n.d.	3	11.5	5.14	44.8	127	64.4	165	191	59	21
3120	Wooster, OH	SL-2022-062	2	32.4	80.8	55	80.2	n.d.	3	11.5	4.58	40.0	98	66.0	374	149	27	29
3121	Wooster, OH	SL-2022-064	2	35.1	92.6	46	81.9	n.d.	3	12.1	4.85	42.3	127	64.3	410	154	51	27
3122	Wooster, OH	WO-WMBT-001	2	29.1	90.2	51	81.7	2.3	1	12.0	5.54	47.3	131	116.4	139	238	56	22
3123	Wooster, OH	WO-WMBT-002	2	31.3	81.5	50	79.4	1.6	2	12.3	4.42	38.7	128	71.7	339	142	32	19
3124	Wooster, OH	WO-WMBT-003	2	29.8	76.7	48	82.4	2.1	1	11.5	5.35	49.8	144	101.7	147	218	51	22
3125	Wooster, OH	WO-WMBT-004	2	38.1	95.8	50	81.8	1.9	1	11.7	4.66	41.1	138	82.4	140	159	54	39
3126	Wooster, OH	WO-WMBT-005	2	30.6	90.9	45	80.9	2.2	1	10.6	4.87	48.5	137	68.8	233	169	40	29
3127	Wooster, OH	WO-WMBT-006	2	38.4	95.5	49	81.2	1.7	1	12.0	4.86	42.8	175	74.5	73	159	62	38
3128	Wooster, OH	WO-WMBT-007	2	39.5	96.7	52	82.0	1.7	1	12.2	4.64	40.8	158	67.3	148	149	54	38
3129	Wooster, OH	WO-WMBT-008	2	39.7	93.3	55	79.8	1.9	2	10.0	4.41	44.8	139	54.3	483	136	42	34
3130	Wooster, OH	WO-WMBT-009	2	32.3	69.7	48	82.1	1.9	1	11.1	5.16	46.8	126	93.1	262	189	51	22
3131	Wooster, OH	WO-WMBT-010	2	30.2	79.2	48	81.1	2.1	1	11.3	5.56	50.8	136	90.5	303	234	48	14
3132	Wooster, OH	WO-WMBT-011	2	28.5	74.1	56	81.4	2.1	2	10.4	4.91	49.3	126	109.6	115	195	43	24
3133	Wooster, OH	WO-WMBT-012	2	39.5	96.1	46	81.7	1.9	2	12.4	4.99	41.5	150	77.0	145	181	60	31
3134	Wooster, OH	WO-WMBT-013	2	41.2	96.6	36	78.0	2.1	2	14.2	4.81	35.2	130	63.6	439	152	31	20
3135	Wooster, OH	WO-WMBT-014	2	37.2	93.6	45	80.5	1.7	2	12.3	4.46	38.3	122	57.1	212	132	40	24
3136	Wooster, OH	WO-WMBT-015	2	29.6	79.4	45	78.9	1.8	1	11.4	4.46	39.8	117	55.9	319	145	30	25
3137	Wooster, OH	WO-WMBT-016	2	36.3	92.8	48	80.7	1.8	2	11.6	4.58	40.1	129	58.8	158	136	45	22
3138	Wooster, OH	WO-WMBT-017	2	31.7	89.1	43	79.2	2.1	1	11.7	4.16	35.9	138	60.6	298	143	36	18
3139	Wooster, OH	WO-WMBT-018	2	33.2	88.7	48	79.2	1.8	1	12.0	4.41	37.2	125	65.4	386	164	36	27
3140	Wooster, OH	WO-WMBT-019	2	38.8	95.4	43	81.9	1.7	1	12.5	4.48	37.4	177	67.7	66	151	53	48
3141	Wooster, OH	WO-WMBT-020	2	39.6	94.4	48	82.4	1.9	1	11.5	4.60	41.3	145	57.0	127	174	54	37
3142	Wooster, OH	WO-WMBT-021	2	39.7	96.9	47	83.4	1.7	1	11.6	4.53	40.4	120	61.5	93	160	58	41
3143	Wooster, OH	WO-WMBT-022	2	38.5	94.5	47	82.5	1.9	1	12.7	5.12	41.5	145	92.6	110	221	63	29
3144	Wooster, OH	WO-WMBT-023	2	32.3	88.4	46	79.6	1.9	1	11.1	4.19	38.9	141	74.8	336	142	39	31
3145	Wooster, OH	WO-WMBT-024	2	33.4	84.9	53	78.7	2.6	2	10.2	4.27	46.7	103	69.2	225	159	29	37
3146	Wooster, OH	WO-WMBT-025	2	33.5	92.7	46	80.7	1.8	1	12.0	4.50	39.3	134	74.0	270	162	41	32
3147	Wooster, OH	WO-WMBT-026	2	35.0	94.5	49	81.0	1.6	1	11.7	4.09	35.7	105	59.0	349	134	38	28
3148		CONRAD MALT CHECK	2	40.6	98.2	89	85.4	1.7	1	12.3	5.15	43.6	126	112.0	130	226	65	29
3149	Wooster, OH	WO-WMBT-027	2	36.7	96.0	51	78.2	n.d.	3	12.1	4.13	36.1	106	63.4	515	119	33	22
3150	Wooster, OH	WO-WMBT-028	2	39.4	94.2	50	78.8	1.7	1	13.1	4.44	34.5	149	64.5	184	146	35	22
3151	Wooster, OH	WO-WMBT-029	2	36.2	95.6	55	80.5	1.3	1	11.8	3.99	35.0	131	56.0	121	112	41	21
3152	Wooster, OH	WO-WMBT-030	2	36.4	89.2	60	81.0	1.6	1	11.0	4.29	39.7	138	48.2	327	133	31	30
3153	Wooster, OH	WO-WMBT-031	2	29.6	77.6	49	79.7	1.8	1	12.5	4.87	40.6	150	73.9	160	206	48	15
3154	Wooster, OH	WO-WMBT-032	2	31.4	77.2	50	77.8	1.8	1	11.8	4.57	40.7	115	78.8	295	176	31	22
3155	Wooster, OH	NW-WMBT-001	2	44.1	91.8	52	79.0	2.1	1	12.6	4.87	40.3	120	71.7	295	189	55	25
3156	Wooster, OH	NW-WMBT-002	2	39.8	91.7	47	79.0	1.6	1	10.3	4.06	39.8	108	52.3	388	131	32	37
3157	Wooster, OH	NW-WMBT-003	2	43.6	95.3	50	77.9	2.2	2	11.3	4.11	37.8	111	43.1	493	126	32	33
3158	Wooster, OH	NW-WMBT-004	2	42.0	91.9	60	80.1	2.3	1	11.5	5.64	50.5	127	99.1	229	249	50	18
3159	Wooster, OH	NW-WMBT-005	2	40.3	92.2	51	80.4	1.7	1	10.1	4.47	47.3	125	75.4	347	156	40	42
3160	Wooster, OH	NW-WMBT-006	2	41.7	92.6	49	78.7	1.8	1	11.4	5.02	44.9	168	65.2	232	197	54	27
3161	Wooster, OH	NW-WMBT-007	2	37.9	85.6	55	79.5	1.7	1	9.9	4.25	44.8	100	56.3	156	136	36	35
3162	Wooster, OH	NW-WMBT-008	2	35.9	81.7	50	79.1	2.2	1	12.9	4.81	38.6	108	64.2	65	178	41	26
3163	Wooster, OH	NW-WMBT-009	2	39.7	88.8	48	77.9	2.1	1	10.9	5.21	48.3	113	72.2	127	207	36	27
3164	Wooster, OH	NW-WMBT-010	2	43.3	93.8	57	77.4	1.5	1	11.7	4.33	39.2	122	63.2	102	139	42	30
3165	Wooster, OH	NW-WMBT-011	2	37.6	91.1	56	79.0	1.7	1	10.2	4.49	44.8	108	54.7	213	159	35	41
3166	Wooster, OH	NW-WMBT-012	2	39.1	85.2	53	77.2	2.0	1	10.5	4.48	45.0	126	55.7	118	154	37	29
3167	Wooster, OH	NW-WMBT-013	2	38.7	94.9	55	77.3	2.0	1	10.7	4.53	46.4	149	58.9	247	156	36	24
3168	Wooster, OH	NW-WMBT-014	2	40.2	97.1	47	80.4	1.7	1	11.5	4.37	38.5	116	53.7	222	144	42	37
3169	Wooster, OH	NW-WMBT-015	2	38.9	95.6	49	79.8	1.9	1	10.8	4.44	42.6	147	54.3	84	157	50	43
3170	Wooster, OH	NW-WMBT-016	2	41.6	97.8	51	77.5	1.5	1	11.7	4.67	40.1	143	65.2	255	163	43	31
3171	Wooster, OH	NW-WMBT-017	2	40.6	93.8	50	77.0	2.4	1	10.4	4.67	48.6	131	73.9	97	168	40	43
3172	Wooster, OH	NW-WMBT-018	2	42.3	97.4	49	79.7	1.5	1	11.3	4.56	42.2	150	58.1	142	152	54	38

2022 Crop Year Breeders' Submissions

Lab No.	Location	Variety or Selection	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agron)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (*ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)	Adjunct Quality Score	All Malt Quality Score
3173	Wooster, OH	NW-WMBT-019	2	37.5	86.8	61	78.2	2.0	1	10.5	4.42	42.5	105	57.1	93	139	40	39
3174	Wooster, OH	NW-WMBT-020	2	39.1	95.1	61	80.6	1.7	1	9.0	4.07	47.4	80	50.3	361	117	31	22
3175	Wooster, OH	NW-WMBT-021	2	36.0	95.1	57	78.4	2.5	1	11.2	4.29	40.9	106	54.5	191	133	40	34
3176	Wooster, OH	NW-WMBT-022	2	48.1	98.5	61	77.9	2.9	2	12.3	4.72	40.7	155	68.7	164	150	43	24
3177	Wooster, OH	NW-WMBT-023	2	42.3	87.9	57	78.0	1.6	1	11.2	4.61	42.5	163	67.7	232	150	42	35
3178	Wooster, OH	NW-WMBT-024	2	37.5	84.0	54	79.5	2.1	1	10.9	4.90	45.5	155	50.3	169	166	40	17
3179		CONRAD MALT CHECK	2	41.0	98.3	89	85.3	1.6	1	12.6	5.38	45.7	135	112.2	108	233	65	26
3180	Wooster, OH	NW-WMBT-025	2	44.8	95.5	50	78.1	1.9	1	10.7	4.42	44.2	152	79.8	90	141	50	39
3181	Wooster, OH	CK2-NC3-VIO	2	36.6	92.3	61	80.4	1.4	1	9.0	4.23	50.2	102	56.9	168	121	33	31
3182	Crookston, MN	2MS21_3207-005	2	40.0	97.3	48	82.4	1.6	1	10.3	4.81	51.0	105	71.7	166	185	45	44
3183	Crookston, MN	2MS21_3294-020	2	43.8	98.0	58	82.6	1.3	1	11.3	4.94	43.9	162	83.1	167	166	58	39
3184	Crookston, MN	2MS21_3235-020	2	42.2	93.3	53	81.0	n.d.	3	10.4	4.73	49.0	114	88.5	366	163	36	41
3185	Crookston, MN	2MS21_3305-013	2	45.9	98.1	50	81.9	1.9	1	10.7	5.57	56.5	143	94.8	224	230	53	29
3186	Crookston, MN	2MS21_3244-024	2	47.6	98.4	50	81.9	1.4	1	11.0	4.59	44.6	127	66.9	541	141	49	41
3187	Crookston, MN	TM20.124-006	2	46.0	98.2	52	81.5	2.4	1	10.8	5.53	51.5	129	100.2	176	228	53	29
3188	Crookston, MN	TM20.075-003	2	43.1	98.6	49	81.7	1.9	1	11.0	5.12	50.9	135	79.2	262	216	58	29
3189	Crookston, MN	2MS21_3299-030	2	45.5	98.8	54	79.5	1.5	2	11.7	4.26	36.6	114	62.7	546	118	42	28
3190	Crookston, MN	2MS21_3212-020	2	45.8	97.5	51	82.9	2.0	1	10.6	5.24	51.9	107	92.6	165	178	45	43
3191	Crookston, MN	TM20.074-003	2	41.2	97.3	51	82.1	2.5	1	11.1	5.50	53.1	100	108.2	125	245	53	34
3192	Crookston, MN	2MS21_3239-007	2	50.1	99.2	54	83.4	n.d.	3	10.3	4.75	50.5	109	91.0	417	157	39	46
3193	Crookston, MN	2MS21_3216-026	2	49.4	98.7	47	81.3	1.9	1	10.8	4.63	44.0	113	79.1	138	161	49	47
3194	Crookston, MN	2MS21_3234-008	2	52.2	99.4	50	79.9	1.7	1	11.8	4.60	39.9	110	76.2	535	169	43	39
3195	Crookston, MN	2MS21_3233-012	2	53.5	99.5	53	81.8	1.5	1	10.3	4.56	47.5	110	73.6	236	152	41	54
3196	Crookston, MN	2MS21_3235-014	2	51.1	98.9	54	82.0	1.8	2	9.7	4.36	50.2	95	75.5	413	147	36	38
3197	Crookston, MN	TM20.067-003	2	43.5	97.5	44	79.4	1.4	1	11.4	4.26	38.4	89	60.1	389	131	36	30
3198	Crookston, MN	2MS21_3297-019	2	46.6	99.2	51	79.7	1.6	1	11.7	4.61	40.9	120	63.9	530	164	51	30
3199	Crookston, MN	2MS21_3211-025	2	40.9	96.7	52	82.8	2.0	1	11.1	4.96	48.6	100	91.3	145	209	55	38
3200	Crookston, MN	2MS21_3249-007	2	48.9	99.4	50	82.3	1.9	1	9.9	5.21	57.9	103	92.2	164	221	50	41
3201	Crookston, MN	TM20.113-003	2	41.0	96.0	51	81.6	1.7	1	12.0	4.96	42.5	96	85.9	206	207	53	31
3202	Crookston, MN	2MS21_3297-016	2	45.0	97.0	55	80.4	1.8	1	11.7	4.47	39.1	130	69.4	494	142	46	37
3203	Crookston, MN	TM20.117-003	2	48.3	99.6	53	81.4	1.8	1	12.5	5.07	41.8	117	71.3	328	193	58	33
3204	Crookston, MN	TM20.137-003	2	45.1	90.3	56	80.7	1.8	1	12.1	4.87	41.7	119	81.1	95	185	62	37
3205	Crookston, MN	ND_GENESIS	2	40.9	96.2	49	82.1	1.9	1	10.5	4.90	49.1	104	82.9	257	180	44	47
3206	Crookston, MN	2MS21_3210-025	2	41.0	93.5	56	82.7	1.6	1	11.5	4.81	44.1	124	93.4	241	176	57	33
3207	Crookston, MN	2MS21_3213-003	2	40.9	96.1	54	83.2	1.8	1	11.2	5.02	45.1	170	77.5	160	185	60	31
3208	Crookston, MN	2MS21_3239-009	2	49.5	99.0	51	83.1	1.8	1	11.3	5.17	47.0	115	80.4	298	202	53	32
3209	Crookston, MN	2MS21_3233-010	2	44.5	95.3	49	79.4	1.8	1	10.8	4.71	44.0	112	63.2	207	172	40	34
3210		CONRAD MALT CHECK	2	40.0	98.2	89	84.5	1.6	1	12.2	5.60	49.3	148	91.3	144	234	54	24
3211	Crookston, MN	TM20.117-001	2	46.6	98.8	46	81.6	1.8	1	11.9	5.05	42.4	165	77.4	175	177	58	36
3212	Crookston, MN	2MS21_3294-016	2	42.6	98.6	51	81.5	1.6	1	12.0	4.90	42.9	160	72.2	154	169	58	34
3213	Crookston, MN	TM20.118-002	2	42.5	93.9	50	80.5	1.6	1	13.3	4.94	37.7	157	71.3	117	165	48	35
3214	Crookston, MN	TM20.128-003	2	43.7	98.7	43	81.6	2.1	1	11.0	5.13	46.8	122	87.6	239	217	63	29
3215	Crookston, MN	TM20.087-003	2	40.9	94.7	50	82.1	2.2	1	11.1	5.05	47.8	121	85.2	124	210	60	31
3216	Crookston, MN	2MS21_3233-026	2	48.4	98.3	50	81.6	1.6	1	12.0	4.58	39.6	115	60.3	193	141	46	40
3217	Crookston, MN	2MS21_3282-021	2	46.2	98.7	49	81.5	1.7	1	11.8	4.92	42.9	129	73.4	156	182	61	35
3218	Crookston, MN	TM20.131-003	2	44.0	95.9	44	81.8	2.4	1	11.0	5.22	50.5	101	86.8	272	192	48	39
3219	Crookston, MN	2MS21_3228-018	2	48.7	99.0	52	82.4	1.9	1	11.5	5.27	47.6	141	73.4	125	190	59	38
3220	Crookston, MN	2MS21_3235-015	2	45.6	94.3	48	80.3	2.2	2	10.5	4.76	45.7	114	79.0	321	147	42	33
3221	Crookston, MN	2MS21_3235-022	2	43.3	94.1	53	81.0	2.0	1	11.6	5.18	45.3	127	84.9	379	163	58	26
3222	Crookston, MN	TM20.131-005	2	46.8	97.8	47	79.8	2.3	1	11.8	5.11	43.4	105	78.5	414	183	55	30
3223	Crookston, MN	2MS21_3274-010	2	49.2	99.3	51	83.3	2.1	1	11.7	5.60	50.0	117	84.6	125	216	54	30
3224	Crookston, MN	2MS21_3274-029	2	45.5	98.9	48	81.8	2.1	1	11.5	5.45	50.1	114	82.7	188	197	53	34
3225	Crookston, MN	2MS21_3294-026	2	44.0	98.9	56	80.6	1.4	1	10.8	5.48	54.3	165	77.8	225	190	48	27
3226	Crookston, MN	2MS21_3279-014	2	41.8	92.1	52	81.1	1.6	1	11.7	5.12	46.9	121	82.4	172	177	57	25
3227	Crookston, MN	TM20.098-004	2	43.3	97.9	52	80.0	1.7	1	11.7	5.31	48.9	115	71.8	277	210	52	23
3228	Crookston, MN	TM20.061-003	2	45.1	98.2	51	83.2	2.2	1	12.4	5.77	48.8	129	88.8	333	230	54	24
3229	Crookston, MN	2MS21_3216-029	2	44.1	98.2	50	80.4	1.9	2	13.0	4.67	38.4	123	59.0	282	137	40	25
3230	Crookston, MN	TM20.126-006	2	42.9	98.0	54	78.0	1.6	1	12.5	5.59	45.2	116	70.5	233	189	52	23
3231	Crookston, MN	2MS21_3275-017	2	45.7	95.7	52	78.7	2.2	2	9.4	4.75	54.8	120	52.9	191	132	34	22
3232	Crookston, MN	2MS21_3242-001	2	49.2	99.3	46	79.6	1.4	1	11.0	4.86	46.7	118	53.6	297	137	47	26
3233	Crookston, MN	TM20.089-003	2	47.1	97.9	46	80.0	1.9	1	11.5	5.89	54.8	124	92.8	229	243	51	17
3234	Crookston, MN	TM20.117-004	2	45.8	97.5	47	81.1	2.2	1	12.0	6.39	56.4	142	100.5	163	285	51	19
3235	Crookston, MN	2MS21_3242-017	2	49.1	99.3	47	79.4	1.4	1	11.7	4.74	40.9	105	53.6	307	135	45	27
3236	Crookston, MN	TM20.075-002	2	40.8	89.4	48	78.5	1.9	1	11.1	5.08	46.8	103	72.0	338	191	49	29
3237	Crookston, MN	AAC_SYNERGY	2	40.8	93.8	56	81.3	1.9	1	10.5	5.63	56.2	120	95.6	146	217	48	29
3238	Crookston, MN	2MS21_3275-030	2	45.8	97.0	53	79.3	1.8	1	9.5	4.68	50.8	120	59.1	167	127	38	20

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Lab No.	Location	Variety or Selection	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agron)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (*ASBC)	Alpha-amylase (20*DU)	Beta-glucan (ppm)	FAN (ppm)	Adjunct Quality Score	All Malt Quality Score
3239	Crookston, MN	TM20.061-001	2	46.8	99.2	52	80.9	1.7	1	12.0	5.03	44.0	104	73.4	472	165	52	39
3240	Crookston, MN	2MS21_3242-012	2	48.0	99.3	48	79.1	1.4	1	10.3	4.59	47.1	110	55.6	369	139	35	35
3241		CONRAD MALT CHECK	2	43.6	98.6	89	84.8	1.5	1	12.3	5.79	49.8	137	101.5	152	228	54	24
3242	Crookston, MN	2MS21_3235-024	2	47.1	95.9	48	80.5	2.0	1	11.4	5.46	48.4	113	80.1	129	220	55	34
3243	Crookston, MN	2MS21_3248-007	2	44.3	96.9	52	83.0	2.1	1	11.1	5.01	48.1	104	100.0	101	249	58	39
3244	Crookston, MN	TM20.131-002	2	43.3	97.5	50	78.7	1.8	1	11.2	4.58	41.8	91	63.4	435	139	41	28
3245	Crookston, MN	2MS21_3243-013	2	45.7	99.1	48	81.1	1.5	1	10.3	5.78	57.2	114	72.6	431	175	41	46
3246	Crookston, MN	CONLON	2	40.0	96.3	55	80.5	1.7	1	10.5	5.45	52.6	103	73.5	432	171	41	45
3247	Crookston, MN	2MS21_3208-020	2	41.8	96.5	53	82.1	1.7	1	8.5	5.85	74.8	112	76.1	247	190	43	38
3248	Crookston, MN	TM20.118-008	2	40.3	92.0	50	81.0	1.8	1	9.9	4.47	45.6	101	77.6	204	206	45	42
3249	Crookston, MN	2MS21_3274-025	2	42.9	99.1	51	83.3	1.7	1	11.3	5.30	47.2	109	83.4	140	214	58	39
3250	Crookston, MN	2MS21_3243-012	2	45.3	99.0	50	80.6	1.6	2	10.1	4.86	48.4	107	57.8	352	173	41	40
3251	Crookston, MN	2MS21_3212-019	2	44.6	92.1	53	81.8	2.0	1	9.6	5.69	61.8	130	92.5	131	228	52	32
3252	Crookston, MN	2MS21_3213-009	2	43.4	99.2	56	82.9	1.8	1	10.6	5.32	52.7	121	88.2	91	211	60	36
3253	Crookston, MN	TM20.098-005	2	36.7	93.0	47	79.2	1.7	1	10.4	4.88	48.8	92	61.2	329	164	30	24
3254	Crookston, MN	TM20.089-002	2	44.9	98.3	52	82.7	1.8	1	11.2	5.33	49.6	83	85.8	323	218	51	29
3255	Crookston, MN	2MS21_3248-024	2	45.8	96.5	58	83.1	2.8	1	11.2	6.36	59.6	102	95.3	39	291	55	43
3256	Crookston, MN	TM20.065-004	2	41.6	96.3	48	81.2	1.8	1	11.1	4.57	43.8	94	64.9	283	160	46	34
3257	Crookston, MN	2MS21_3204-018	2	40.6	96.9	50	81.8	n.d.	3	8.9	4.58	53.5	89	65.8	276	150	34	39
3258	Crookston, MN	TM20.120-003	2	43.7	98.9	45	80.0	n.d.	3	9.3	4.73	56.1	124	64.8	187	158	39	25
3259	Crookston, MN	TM20.082-002	2	45.6	98.4	42	81.4	1.6	1	12.2	5.05	44.9	113	73.2	312	161	55	39
3260	Crookston, MN	2MS21_3299-003	2	44.9	98.8	53	79.8	1.6	2	11.8	4.59	39.2	126	55.1	387	123	45	22
3261	Crookston, MN	2MS21_3233-015	2	45.1	96.9	52	80.3	1.7	1	11.0	4.86	45.7	100	73.1	257	159	43	37
3262	Crookston, MN	2MS21_3242-006	2	49.7	99.3	44	79.5	1.4	2	12.6	4.76	38.7	107	55.2	328	146	42	27
3263	Crookston, MN	2MS21_3295-012	2	44.3	99.4	51	81.9	1.7	2	9.7	4.83	54.3	114	69.0	189	156	44	45
3264	Crookston, MN	AAC_SYNERGY	2	40.2	94.5	51	82.8	1.8	1	11.8	5.74	49.4	116	92.7	140	232	53	29
3265	Crookston, MN	TM20.115-003	2	47.0	98.9	49	78.9	1.7	1	12.4	4.87	41.2	172	76.0	121	219	60	22
3266	Crookston, MN	2MS21_3204-020	2	41.7	97.0	47	82.6	1.9	2	10.7	4.75	45.2	101	71.7	315	174	44	44
3267	Crookston, MN	2MS21_3235-025	2	43.0	91.9	50	79.6	1.8	1	11.7	4.84	41.6	128	89.3	183	182	58	25
3268	Crookston, MN	TM20.030-008	2	38.8	95.2	44	80.6	2.1	1	11.7	5.71	50.0	135	85.1	152	249	48	16
3269	Crookston, MN	2MS21_3276-005	2	42.7	99.6	53	81.8	1.8	1	12.0	5.64	49.7	125	80.7	214	190	52	27
3270	Crookston, MN	TM20.095-005	2	42.6	97.0	46	80.3	2.1	1	11.7	5.00	45.4	124	92.1	180	226	60	19
3271	Crookston, MN	2MS21_3235-016	2	49.9	98.3	52	80.8	1.7	2	11.1	5.25	48.3	110	73.4	349	156	46	40
3272		CONRAD MALT CHECK	2	41.2	98.4	88	84.2	1.5	1	12.3	5.63	47.2	126	95.7	129	256	56	26
3273	Crookston, MN	TM20.102-003	2	46.2	98.9	50	80.9	2.3	2	9.9	4.64	50.4	107	58.8	171	136	37	39
3274	Crookston, MN	2MS21_3299-008	2	48.5	99.3	52	79.4	1.6	2	12.2	4.78	39.4	114	58.6	464	153	39	30
3275	Crookston, MN	2MS21_3270-008	2	44.9	98.6	51	81.1	1.8	1	11.7	5.50	47.7	116	91.6	246	212	55	22
3276	Crookston, MN	2MS21_3235-002	2	49.6	98.3	51	79.8	1.7	1	11.3	5.06	48.3	118	80.1	162	178	47	32
3277	Crookston, MN	2MS21_3248-027	2	47.7	97.2	60	83.0	2.8	1	11.7	6.71	59.9	111	103.6	32	323	55	38
3278	Crookston, MN	TM20.117-006	2	46.3	97.5	49	80.9	1.6	1	11.7	4.93	42.9	140	72.7	203	168	55	34
3279	Crookston, MN	2MS21_3228-002	2	52.6	99.5	53	79.6	2.2	2	11.5	4.82	44.6	119	57.9	110	157	54	35
3280	Crookston, MN	2MS21_3307-002	2	45.5	99.0	52	82.0	2.2	1	11.3	5.55	50.5	105	92.6	67	240	62	43
3282	Crookston, MN	2MS21_3245-011	2	51.1	99.4	48	79.4	1.3	1	10.1	4.59	47.3	116	64.8	391	133	35	31
3283	Crookston, MN	2MS21_3274-007	2	48.8	99.4	52	80.8	1.7	1	11.5	5.48	47.6	120	85.0	168	216	52	22
3284	Crookston, MN	2MS21_3213-011	2	44.3	98.5	52	81.1	2.0	1	13.0	5.21	42.3	126	73.9	138	180	61	37
3285	Crookston, MN	TM20.012-005	2	44.8	98.7	52	79.4	1.5	1	11.6	4.96	44.9	132	66.7	153	165	52	27
3286	Crookston, MN	2MS21_3296-010	2	50.1	99.2	55	78.6	2.0	1	13.3	4.71	35.6	156	60.1	489	128	38	15
3287	Crookston, MN	2MS21_3242-013	2	49.7	99.8	48	79.6	1.7	1	10.7	4.62	45.3	115	56.1	345	140	43	29
3288	Crookston, MN	TM20.120-005	2	46.9	99.3	51	82.4	2.9	1	10.7	5.69	54.7	118	101.1	72	259	53	39
3289	Crookston, MN	2MS21_3248-008	2	51.1	99.4	56	86.0	2.7	1	10.6	6.40	66.2	88	100.4	37	307	46	36
3290	Crookston, MN	2MS21_3233-023	2	48.9	99.0	47	80.2	1.9	1	11.3	4.71	42.5	131	80.1	268	195	54	32
3291	Crookston, MN	2MS21_3274-015	2	48.5	99.5	51	81.7	1.6	1	11.4	4.62	41.4	132	82.4	147	213	62	40
3292	Crookston, MN	TM20.006-003	2	38.8	84.7	48	81.3	1.9	1	12.6	5.69	66.6	136	53.8	397	198	49	12
3293	Crookston, MN	ND_GENESIS	2	42.1	97.6	49	82.0	1.5	1	11.0	6.38	63.7	123	77.6	335	200	44	29
3294	Crookston, MN	TM20.074-006	2	42.0	96.9	47	82.0	2.1	1	10.4	5.29	54.9	129	97.6	219	270	53	34
3295	Crookston, MN	2MS21_3228-007	2	48.4	98.7	49	81.4	1.4	1	10.7	5.23	48.9	110	58.5	216	175	45	36
3296	Crookston, MN	TM20.131-001	2	44.3	83.7	54	83.4	1.6	1	10.0	5.00	52.9	126	81.7	382	207	46	29
3297	Crookston, MN	TM20.075-004	2	44.0	97.8	53	80.7	1.7	1	13.7	5.11	40.1	166	91.4	170	247	50	24
3298	Crookston, MN	TM20.023-002	2	49.7	99.5	52	82.2	1.9	1	10.3	5.33	57.2	114	83.2	335	228	50	41
3299	Crookston, MN	2MS21_3248-026	2	48.3	98.8	56	84.1	2.0	1	9.7	5.91	63.2	116	90.8	395	261	46	32
3300	Crookston, MN	2MS21_3213-018	2	46.9	99.3	57	82.4	1.4	1	10.5	5.28	55.5	162	76.3	259	207	51	34
3301	Crookston, MN	2MS21_3296-009	2	46.3	98.7	52	80.5	1.5	1	10.8	4.66	45.0	154	64.7	515	149	46	28
3302	Crookston, MN	2MS21_3212-027	2	46.9	97.6	56	82.1	2.0	1	11.8	5.40	47.0	142	87.5	134	168	61	34
3303		CONRAD MALT CHECK	2	41.4	98.6	90	84.7	1.7	1	12.2	5.75	49.7	147	95.0	151	214	53	23
3304	Crookston, MN	2MS21_3282-003	2	47.4	99.1	50	82.2	3.1	1	11.0	6.05	60.0	89	94.6	175	251	44	29
3305	Crookston, MN	2MS21_3239-013	2	51.3	98.7	54	81.5	2.0	1	11.1	4.70	44.0	135	54.7	156	132	54	36

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Lab No.	Location	Variety or Selection	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agron)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (*ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)	Adjunct Quality Score	All Malt Quality Score
3306	Crookston, MN	CONLON	2	40.6	95.3	58	80.9	2.1	1	10.6	5.03	51.1	130	74.0	240	155	44	33
3307	Crookston, MN	TM20.113-001	2	45.9	98.9	48	82.0	2.1	1	12.3	5.31	44.0	124	69.1	205	196	61	33
3308	Crookston, MN	2MS21_3228-001	2	54.0	99.7	49	81.6	1.9	1	11.6	5.16	47.9	122	77.6	113	180	59	30
3309	Crookston, MN	2MS21_3245-020	2	50.8	99.2	50	79.7	2.7	1	13.4	5.28	40.6	142	61.4	486	171	50	27
3310	Crookston, MN	2MS21_3238-014	2	47.9	98.0	51	80.3	2.3	1	12.0	5.20	45.8	124	69.1	229	169	55	29
3311	Crookston, MN	2MS21_3307-024	2	46.6	99.2	52	82.7	2.4	1	10.8	5.62	55.6	108	77.9	73	232	53	43
3312	Crookston, MN	2MS21_3248-014	2	51.2	99.1	52	83.2	3.0	1	11.7	6.29	56.1	101	90.4	129	256	51	34
3313	Crookston, MN	2MS21_3245-022	2	49.8	99.2	48	80.7	2.4	2	11.8	4.69	41.0	120	49.8	398	134	44	30
3314	Crookston, MN	TM20.081-001	2	47.8	99.2	49	82.2	1.7	1	12.7	5.23	44.1	157	87.1	248	188	61	30
3315	Crookston, MN	TM20.074-008	2	43.3	98.5	50	80.9	2.0	1	13.6	5.74	44.0	120	97.4	205	237	46	22
3316	Crookston, MN	2MS21_3274-026	2	48.7	99.5	52	81.3	1.9	1	11.3	5.03	47.1	131	85.2	162	187	56	27
3317	Crookston, MN	2MS21_3299-021	2	46.3	98.5	50	79.7	1.5	2	13.1	4.50	34.3	130	59.9	458	138	40	27
3318	Crookston, MN	2MS21_3213-010	2	46.8	99.6	50	82.0	2.0	1	11.7	5.34	45.9	139	80.0	240	201	61	24
3319	Crookston, MN	TM20.128-006	2	42.2	95.8	51	82.2	n.d.	3	11.8	5.10	46.1	133	86.2	263	190	59	25
3320	Crookston, MN	TM20.106-003	2	39.3	89.2	69	86.3	n.d.	3	12.3	4.80	40.0	131	67.7	275	140	42	28
3321	Crookston, MN	2MS21_3294-022	2	41.0	95.4	58	81.5	1.6	1	11.6	5.08	44.1	160	78.2	176	163	57	28
3322	Crookston, MN	2MS21_3274-024	2	46.3	99.3	54	82.8	1.9	1	11.2	5.12	49.5	107	77.2	155	193	53	39
3323	Crookston, MN	2MS21_3212-004	2	46.7	96.6	57	82.1	1.8	1	12.4	5.20	42.6	148	80.6	119	182	64	35
3324	Crookston, MN	TM20.080-008	2	43.1	95.7	51	81.9	2.3	1	11.2	5.31	51.6	97	82.9	193	212	51	32
3325	Crookston, MN	2MS21_3244-002	2	44.4	97.9	56	82.9	n.d.	3	11.0	4.26	39.0	127	59.7	409	121	47	35
3326	Crookston, MN	TM20.120-001	2	50.0	99.4	49	81.8	2.3	2	11.9	4.71	41.5	135	59.1	306	150	53	33
3327	Crookston, MN	2MS21_3268-013	2	43.2	95.6	52	80.1	2.2	2	11.6	4.74	42.1	136	61.7	366	147	50	24
3328	Crookston, MN	2MS21_3207-026	2	45.2	98.5	51	82.9	2.0	1	11.8	5.50	47.4	147	87.6	58	202	63	31
3329	Crookston, MN	CONLON	2	42.0	96.5	58	81.4	1.7	1	12.1	5.07	42.8	142	80.7	301	169	58	31
3330	Crookston, MN	2MS21_3296-023	2	45.7	98.8	52	81.1	1.7	1	12.7	4.83	40.6	134	69.2	349	142	58	30
3331	Crookston, MN	2MS21_3211-008	2	39.0	95.2	51	82.6	1.9	1	10.9	5.03	50.3	123	83.3	112	180	48	36
3332	Crookston, MN	2MS21_3295-018	2	44.1	99.4	55	82.5	1.7	1	10.7	5.12	49.0	132	80.5	133	169	51	39
3333	Crookston, MN	2MS21_3296-007	2	49.0	99.5	54	79.6	1.6	1	14.4	4.96	36.4	155	63.0	267	134	40	21
3334	Crookston, MN	CONRAD MALT CHECK	2	41.6	98.3	87	84.3	1.7	1	12.3	5.92	52.2	137	94.9	129	227	56	26
3335	Crookston, MN	2MS21_3304-012	2	43.5	97.0	55	81.7	1.6	1	11.7	4.88	42.3	137	71.7	184	154	58	39
3336	Crookston, MN	2MS21_3295-008	2	45.9	98.7	53	83.4	1.7	1	10.7	5.15	48.6	118	77.0	193	165	45	39
3337	Crookston, MN	TM20.065-005	2	45.7	98.4	50	82.7	2.0	1	11.6	5.49	48.3	114	85.1	100	186	56	37
3338	Crookston, MN	2MS21_3228-023	2	50.6	98.3	47	80.7	2.0	1	9.7	4.87	51.8	123	53.0	248	156	45	29
3339	Crookston, MN	2MS21_3242-019	2	50.2	99.2	48	79.9	1.5	1	10.8	4.66	43.8	119	52.3	394	144	43	32
3340	Crookston, MN	2MS21_3235-003	2	47.0	96.1	52	81.0	1.9	1	10.0	5.35	53.7	145	86.5	239	207	48	29
3341	Crookston, MN	TM20.067-006	2	44.1	98.6	55	79.8	1.5	1	15.2	5.47	37.5	148	70.4	376	206	43	23
3342	Crookston, MN	2MS21_3242-020	2	50.8	99.5	45	80.0	1.6	1	10.9	4.85	45.6	116	53.0	358	155	47	32
3343	Crookston, MN	2MS21_3274-016	2	47.9	99.3	52	81.8	1.7	1	10.0	5.25	58.1	123	81.9	147	192	54	40
3344	Crookston, MN	2MS21_3235-011	2	51.6	99.3	50	81.2	2.2	1	9.8	5.12	57.4	115	80.3	214	176	45	43
3345	Crookston, MN	2MS21_3294-003	2	45.3	98.3	55	80.6	1.7	1	11.6	5.40	50.7	178	77.2	251	191	53	22
3346	Crookston, MN	TM20.137-001	2	43.8	92.5	48	82.0	2.5	1	9.0	4.86	56.7	142	78.9	82	178	55	43
3347	Crookston, MN	2MS21_3228-019	2	48.9	99.5	48	81.1	2.1	1	10.2	5.14	55.6	115	66.3	198	186	48	38
3348	Crookston, MN	2MS21_3211-005	2	42.5	98.0	57	83.1	2.0	1	9.5	5.69	61.0	107	94.0	362	220	46	36
3349	Crookston, MN	2MS21_3245-025	2	48.7	99.0	52	80.9	1.7	1	10.6	5.24	49.4	136	77.8	346	178	45	31
3350	Crookston, MN	ND_GENESIS	2	41.1	97.6	54	82.7	1.6	1	9.3	4.98	54.2	130	82.8	252	174	47	35
3351	Crookston, MN	TM20.074-009	2	37.8	94.5	53	80.7	1.7	1	10.3	5.14	52.0	114	90.9	148	201	43	34
3352	Crookston, MN	TM20.074-004	2	43.0	99.0	51	82.6	2.3	1	11.3	5.72	54.5	128	97.2	159	253	54	29
3353	Crookston, MN	2MS21_3248-016	2	49.1	98.8	56	84.6	2.1	1	9.8	5.25	58.4	110	95.7	111	247	53	39
3354	Crookston, MN	TM20.095-003	2	43.8	99.2	51	82.6	2.1	1	12.4	4.97	43.4	128	87.6	132	227	66	30
3355	Crookston, MN	TM20.081-004	2	44.4	99.4	51	82.4	1.8	1	9.8	5.22	56.6	128	96.6	51	212	60	36
3356	Crookston, MN	2MS21_3204-008	2	44.4	99.2	53	80.9	1.7	1	10.2	5.42	56.0	139	80.3	177	194	48	32
3357	Crookston, MN	2MS21_3228-006	2	53.3	99.5	51	82.6	2.0	1	10.3	5.92	63.2	131	88.1	45	259	56	41
3358	Crookston, MN	2MS21_3297-022	2	52.6	99.2	47	78.6	1.7	1	14.3	5.08	37.7	117	62.4	541	188	37	21
3359	Crookston, MN	2MS21_3247-028	2	51.5	98.0	52	83.1	2.8	1	11.6	5.93	54.8	96	91.0	281	264	47	27
3360	Crookston, MN	TM20.012-004	2	46.8	99.3	54	82.5	1.7	1	10.3	5.62	56.1	156	77.9	146	209	50	37
3361	Crookston, MN	2MS21_3296-028	2	46.2	96.3	56	80.5	1.9	1	10.5	4.83	46.8	146	66.4	518	131	50	30
3362	Crookston, MN	TM20.124-007	2	46.0	98.4	47	80.6	2.1	1	10.6	5.81	55.7	153	99.3	153	230	46	24
3363	Crookston, MN	TM20.081-005	2	46.7	99.7	51	82.4	1.6	1	9.9	5.20	56.2	141	95.6	46	199	58	44
3364	Crookston, MN	TM20.118-007	2	41.9	94.6	51	81.4	1.8	1	10.7	5.54	55.6	129	84.5	124	226	55	26
3365	Crookston, MN	CONRAD MALT CHECK	2	41.6	98.0	90	84.8	1.5	1	11.6	6.01	53.8	134	99.7	132	235	53	26
3366	Crookston, MN	2MS21_3242-016	2	49.6	99.1	48	79.3	1.5	1	14.1	4.83	36.7	121	56.3	361	134	37	18
3367	Crookston, MN	2MS21_3228-020	2	49.7	99.3	56	84.7	1.7	1	11.9	5.72	49.2	135	87.8	142	212	57	27
3368	Crookston, MN	2MS21_3242-002	2	27.7	99.4	48	80.1	1.4	1	10.9	4.78	45.4	121	58.0	337	132	41	20
3369	Crookston, MN	2MS21_3274-004	2	47.2	99.4	56	82.2	1.6	1	12.4	5.10	41.9	132	78.2	155	163	58	36
3370	Crookston, MN	2MS21_3294-002	2	46.7	99.1	58	80.6	1.5	1	11.0	5.42	51.1	192	76.3	84	173	52	38
3371	Crookston, MN	AAC_SYNERGY	2	41.0	94.6	50	81.8	1.8	1	10.9	5.87	57.2	135	96.6	164	210	46	28

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Lab No.	Location	Variety or Selection	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agron)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (*ASBC)	Alpha-amylase (20*DU)	Beta-glucan (ppm)	FAN (ppm)	Adjunct Quality Score	All Malt Quality Score
3372	Crookston, MN	2MS21_3274-003	2	48.5	99.5	48	82.0	2.0	1	12.7	5.57	44.3	126	84.0	69	206	68	34
3373	Crookston, MN	TM20.118-009	2	39.4	91.1	52	83.0	2.8	2	9.2	5.24	62.1	106	87.9	264	189	44	35
3374	Crookston, MN	2MS21_3268-018	2	43.9	98.9	51	81.1	1.9	1	9.4	4.99	57.6	129	75.7	314	157	48	31
3375	Crookston, MN	2MS21_3249-014	2	50.0	99.2	57	82.8	1.7	1	10.9	5.29	52.1	99	88.6	180	184	44	35
3376	Crookston, MN	TM20.065-002	2	46.2	98.8	53	81.5	1.9	2	10.9	5.51	51.5	114	67.1	214	198	47	41
3377	Crookston, MN	2MS21_3294-019	2	48.7	98.7	57	79.9	1.6	1	12.3	5.64	47.9	192	77.6	301	171	46	24
3378	Crookston, MN	2MS21_3274-009	2	48.3	99.5	54	81.4	1.7	1	10.5	5.23	50.8	140	79.1	130	172	51	34
3379	Crookston, MN	2MS21_3299-016	2	47.0	98.9	46	80.7	1.8	1	11.6	5.04	44.7	147	64.5	343	149	55	23
3380	Crookston, MN	2MS21_3242-007	2	49.5	99.1	48	79.0	1.8	2	13.2	5.01	39.6	113	51.0	389	136	38	26
3381	Crookston, MN	TM20.126-002	2	44.0	98.3	53	78.8	n.d.	3	12.0	5.48	45.5	121	66.4	300	185	53	18
3382	Crookston, MN	TM20.081-007	2	46.5	99.7	50	81.8	1.9	1	9.5	5.37	56.9	127	92.4	85	200	58	39
3383	Crookston, MN	TM20.023-006	2	47.4	98.6	49	81.4	1.8	2	9.4	5.02	54.3	116	61.9	336	164	44	31
3384	Crookston, MN	2MS21_3274-020	2	46.8	99.3	53	82.2	n.d.	3	13.2	5.25	42.4	115	71.9	245	169	48	40
3385	Crookston, MN	2MS21_3247-022	2	49.4	98.8	56	82.3	2.9	1	13.7	6.89	51.4	159	104.7	84	289	48	31
3386	Crookston, MN	TM20.012-003	2	45.2	99.4	53	81.0	2.3	2	12.2	5.27	43.2	142	71.0	273	172	57	31
3387	Crookston, MN	2MS21_3278-022	2	44.4	98.1	53	82.7	2.3	1	9.2	5.02	58.1	120	78.3	216	156	45	39
3388	Crookston, MN	TM20.030-006	2	51.4	98.9	46	82.0	2.6	1	13.4	5.82	44.8	133	79.0	312	213	54	27
3389	Crookston, MN	2MS21_3208-011	2	44.2	98.2	56	82.9	2.3	1	10.4	5.74	57.7	125	91.1	175	188	47	37
3390	Crookston, MN	2MS21_3304-017	2	45.5	96.7	52	80.7	2.4	2	10.5	5.18	53.7	116	69.2	180	174	41	36
3391	Crookston, MN	2MS21_3208-005	2	48.3	99.6	56	83.1	1.8	1	9.1	5.37	59.9	144	87.6	98	211	60	36
3392	Crookston, MN	2MS21_3282-028	2	44.1	98.9	50	81.8	1.9	1	11.5	5.02	45.7	90	81.6	272	190	54	32
3393	Crookston, MN	ND_GENESIS	2	42.4	98.0	51	81.6	1.7	1	12.1	4.89	41.4	113	80.9	319	175	55	43
3394	Crookston, MN	TM20.124-001	2	45.1	97.7	51	80.1	2.4	1	12.5	5.84	49.9	128	94.1	171	242	51	19
3395	Crookston, MN	2MS21_3299-022	2	47.6	99.3	52	79.5	1.5	1	13.6	5.10	38.4	182	75.7	484	165	40	24
3396	Crookston, MN	CONRAD MALT CHECK	2	41.1	98.1	90	84.6	1.8	1	12.2	5.88	49.4	121	101.7	215	238	53	23
3397	Crookston, MN	2MS21_3296-005	2	46.3	98.2	58	79.3	1.5	1	14.5	5.20	37.3	157	69.1	428	164	37	27
3398	Crookston, MN	2MS21_3296-001	2	45.6	98.9	53	78.4	1.7	1	14.7	4.90	34.4	142	57.5	429	154	37	22
3399	Crookston, MN	2MS21_3276-015	2	42.6	96.7	55	80.2	1.9	1	13.0	5.07	41.2	153	84.5	163	185	53	27
3400	Crookston, MN	AAC_SYNERGY	2	44.8	98.6	50	82.6	2.0	1	12.8	5.87	46.5	152	109.4	100	249	66	31
3401	Crookston, MN	TM20.065-001	2	44.2	98.3	53	81.1	1.8	1	13.1	4.96	39.0	110	83.3	234	159	45	36
3402	Crookston, MN	2MS21_3298-028	2	42.8	98.9	55	81.5	1.7	1	11.5	5.03	44.1	160	74.3	242	174	58	42
3403	Crookston, MN	2MS21_3294-012	2	48.2	99.7	51	80.7	1.8	1	13.3	5.46	41.9	157	92.8	83	218	62	31
3404	Crookston, MN	2MS21_3294-008	2	50.6	99.3	45	79.7	1.6	1	12.2	4.71	39.8	119	59.3	387	148	43	26
3405	Crookston, MN	2MS21_3242-029	2	50.6	99.4	44	79.4	1.7	1	13.7	4.83	37.6	110	54.1	385	148	34	25
3406	Crookston, MN	2MS21_3242-009	2	51.3	99.5	46	79.8	1.6	1	13.4	4.78	37.4	112	56.9	372	140	38	28
3407	Crookston, MN	TM20.118-003	2	41.5	88.4	51	81.2	1.9	1	13.0	5.48	43.2	105	85.6	208	225	52	26
3408	Crookston, MN	2MS21_3296-021	2	44.6	98.6	52	79.9	1.8	1	13.7	4.52	33.3	114	54.0	352	137	33	31
3409	Crookston, MN	TM20.128-005	2	41.4	96.1	42	81.0	2.4	1	12.2	5.14	45.4	128	98.6	275	211	59	18
3410	Crookston, MN	TM20.082-004	2	44.3	97.8	54	83.4	1.9	1	11.1	5.38	49.0	142	109.5	133	224	61	32
3411	Crookston, MN	2MS21_3274-011	2	49.2	99.4	53	82.6	2.0	1	11.4	5.44	47.8	145	91.3	211	204	56	29
3412	Crookston, MN	TM20.137-004	2	38.8	90.4	51	80.9	1.9	1	11.4	4.66	41.3	126	82.4	200	164	48	36
3413	Crookston, MN	2MS21_3228-008	2	49.4	99.5	50	82.2	n.d.	3	12.1	4.85	42.1	125	63.8	310	161	56	32
3414	Crookston, MN	2MS21_3274-001	2	48.0	99.6	50	81.2	1.8	1	12.1	4.98	43.3	125	86.8	220	187	61	25
3415	Crookston, MN	TM20.102-008	2	45.3	93.8	61	85.5	1.7	2	12.7	4.59	37.5	110	56.4	503	125	45	34
3416	Crookston, MN	2MS21_3228-010	2	54.2	99.5	52	81.7	1.8	1	11.7	5.47	48.2	139	82.8	236	211	58	24
3417	Crookston, MN	TM20.100-006	2	47.4	98.7	39	81.7	2.2	1	11.9	5.48	46.7	114	86.9	323	227	60	31
3418	Crookston, MN	2MS21_3295-029	2	44.4	97.7	49	82.0	1.8	1	11.4	5.08	45.1	129	91.4	247	176	58	36
3419	Crookston, MN	TM20.060-005	2	39.4	98.0	46	80.7	2.1	1	12.4	5.24	42.8	127	86.8	253	200	55	24
3420	Crookston, MN	2MS21_3274-028	2	53.5	99.5	51	81.4	1.8	1	12.9	5.30	42.7	137	91.3	218	207	61	24
3421	Crookston, MN	2MS21_3304-029	2	43.2	96.6	57	83.1	1.6	1	12.2	5.10	43.2	163	81.9	235	172	58	34
3422	Crookston, MN	2MS21_3213-023	2	45.4	99.2	48	82.7	1.9	1	11.0	5.45	49.8	132	78.1	408	224	58	29
3423	Crookston, MN	TM20.030-003	2	42.5	94.7	50	82.1	2.1	1	12.2	5.75	47.6	159	81.7	297	247	54	24
3424	Crookston, MN	2MS21_3244-028	2	43.6	98.2	53	83.9	1.5	1	12.3	4.76	39.8	123	54.8	476	159	49	34
3425	Crookston, MN	2MS21_3242-024	2	50.6	99.3	47	80.2	1.6	1	11.6	4.72	40.8	109	50.7	429	147	48	32
3426	Crookston, MN	2MS21_3242-010	2	50.1	99.3	47	80.7	1.5	2	13.4	4.70	37.8	115	54.1	446	150	37	32
3427	Crookston, MN	CONRAD MALT CHECK	2	40.8	98.1	89	84.7	1.5	1	12.3	5.95	49.9	133	95.8	223	256	53	23
3428	Crookston, MN	2MS21_3238-012	2	44.6	93.7	54	81.2	2.1	1	13.2	5.70	45.0	130	91.5	278	235	54	19
3429	Crookston, MN	2MS21_3242-003	2	49.5	99.3	50	81.1	1.5	1	12.7	4.75	38.3	112	53.9	418	150	46	34
3430	Crookston, MN	2MS21_3228-009	2	54.2	99.4	53	83.1	1.7	1	12.7	5.38	44.4	132	89.2	256	203	61	27
3431	Crookston, MN	2MS21_3245-009	2	48.0	99.3	53	81.8	1.6	1	11.5	5.14	45.0	145	76.1	390	176	58	31
3432	Crookston, MN	2MS21_3239-015	2	46.6	98.7	52	84.2	2.2	1	10.7	5.66	54.0	102	95.4	378	215	46	36
3433	Crookston, MN	TM20.065-003	2	43.0	98.8	50	81.1	2.3	2	12.6	5.30	43.0	123	72.5	270	198	60	29
3434	Crookston, MN	2MS21_3228-005	2	45.9	98.3	52	81.9	2.0	1	11.1	5.65	54.1	128	90.5	137	238	57	32
3435	Crookston, MN	2MS21_3249-005	2	52.0	99.6	54	81.1	1.8	1	11.6	5.32	48.0	99	82.6	257	195	49	25
3436	Crookston, MN	2MS21_3213-022	2	44.6	98.8	57	83.5	2.0	1	12.0	5.58	48.1	155	90.0	149	214	61	27
3437	Crookston, MN	2MS21_3213-016	2	45.2	98.0	57	82.5	1.7	1	11.8	5.14	46.6	115	72.0	245	197	58	33

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Lab No.	Location	Variety or Selection	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agron)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (*ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)	Adjunct Quality Score	All Malt Quality Score
3438	Crookston, MN	2MS21_3242-015	2	50.7	99.6	46	79.5	1.6	1	12.4	4.75	41.1	106	54.9	276	149	48	27
3439	Crookston, MN	TM20.075-007	2	43.2	95.7	52	79.4	1.5	1	12.6	4.84	39.4	110	52.4	120	163	50	34
3440	Crookston, MN	CONLON	2	43.1	98.0	55	81.7	1.6	1	11.5	5.08	45.0	123	80.6	233	183	61	30
3441	Crookston, MN	2MS21_3297-001	2	54.9	99.5	48	78.3	1.6	1	13.3	5.01	39.1	120	67.7	418	171	42	29
3442	Crookston, MN	2MS21_3228-003	2	52.6	99.3	45	82.3	2.0	1	10.3	5.11	51.4	105	80.7	224	190	48	44
3443	Crookston, MN	2MS21_3295-019	2	43.7	99.1	49	83.6	1.9	1	11.0	5.48	51.1	106	85.0	133	219	58	39
3444	Crookston, MN	TM20.107-003	2	44.9	98.3	33	82.9	2.4	1	11.6	5.09	47.5	107	77.8	138	195	56	37
3445	Lahoma/Chicksaha, OK	1017	6	30.6	82.3	56	76.5	2.0	1	13.0	5.63	45.0	134	74.0	302	238	49	N/A
3446	Lahoma/Chicksaha, OK	1018	2	38.1	96.7	54	80.2	2.5	1	12.3	5.63	47.9	113	66.4	176	236	45	26
3447	Lahoma/Chicksaha, OK	1051	2	39.7	96.1	47	69.7	1.6	1	15.8	5.28	35.3	133	62.2	573	179	30	19
3448	Lahoma/Chicksaha, OK	1066	2	38.5	96.2	45	75.0	1.8	1	15.8	5.60	35.8	154	68.7	344	202	33	17
3449	Lahoma/Chicksaha, OK	1070	2	37.3	95.5	53	74.8	2.9	1	17.0	6.98	41.9	149	84.5	110	312	34	17
3450	Lahoma/Chicksaha, OK	1073	2	36.2	94.8	56	73.1	1.6	1	14.6	5.65	40.1	154	68.2	373	209	32	17
3451	Lahoma/Chicksaha, OK	1082	6	35.4	92.9	49	76.7	2.0	1	14.0	5.88	43.2	165	85.5	313	232	39	N/A
3452	Lahoma/Chicksaha, OK	1083	6	27.4	69.7	49	78.4	1.9	1	13.5	5.44	41.3	187	86.6	195	209	33	N/A
3453	Lahoma/Chicksaha, OK	1250	2	40.4	97.0	49	77.3	2.5	1	16.8	6.56	39.2	138	91.9	288	268	30	18
3454	Lahoma/Chicksaha, OK	1253	2	37.1	95.7	45	72.8	1.9	1	14.9	5.86	39.9	152	64.4	222	200	27	12
3455	Lahoma/Chicksaha, OK	1256	2	38.0	94.7	56	77.6	1.7	1	15.8	5.97	38.8	147	78.9	298	234	29	12
3456	Lahoma/Chicksaha, OK	1257	2	36.9	95.0	48	74.9	1.7	1	16.0	5.61	36.2	139	67.3	216	205	27	15
3457	Lahoma/Chicksaha, OK	1260	2	35.7	91.1	54	75.9	1.8	1	13.0	5.34	42.8	113	85.0	343	201	38	21
3458	Lahoma/Chicksaha, OK	TRADITION MALT CHECK	6	39.1	96.1	61	81.8	1.8	1	12.1	5.87	50.5	172	95.4	141	258	57	N/A
3459	Lahoma/Chicksaha, OK	1261	2	34.4	97.2	49	76.1	2.3	2	14.7	5.70	39.8	161	76.3	284	188	26	16
3460	Lahoma/Chicksaha, OK	1263	2	34.6	95.5	46	73.2	1.6	1	16.6	5.43	33.0	153	65.5	353	169	28	22
3461	Lahoma/Chicksaha, OK	1265	2	42.2	97.3	43	73.7	n.d.	3	16.8	5.36	32.8	165	50.5	453	166	31	20
3462	Lahoma/Chicksaha, OK	1266	2	36.9	98.2	42	75.7	1.8	1	15.9	5.77	37.2	151	65.2	465	189	27	18
3463	Lahoma/Chicksaha, OK	1267	2	42.7	97.6	42	75.0	n.d.	3	16.0	5.90	37.0	163	67.5	485	204	30	18
3464	Lahoma/Chicksaha, OK	1269	6	30.3	83.1	54	76.9	2.6	1	14.7	5.88	41.3	192	74.1	407	210	33	N/A
3465	Lahoma/Chicksaha, OK	1275	6	32.0	88.6	50	75.1	1.7	1	14.8	5.85	41.0	168	69.0	219	217	33	N/A
3466	Lahoma/Chicksaha, OK	1276	6	29.9	83.5	47	76.3	1.6	1	14.0	5.35	38.3	144	62.8	439	184	27	N/A
3467	Lahoma/Chicksaha, OK	1277	2	37.3	97.9	41	74.0	2.2	1	17.5	6.52	38.7	209	79.2	180	238	26	12
3468	Lahoma/Chicksaha, OK	1280	2	41.3	96.0	52	73.9	1.8	1	15.0	5.86	40.8	119	59.8	468	191	33	22
3469	Lahoma/Chicksaha, OK	1281	2	36.6	96.3	42	76.5	1.9	1	17.3	6.44	39.0	155	63.5	508	217	26	10
3470	Lahoma/Chicksaha, OK	1285	2	39.4	96.8	55	78.0	1.5	1	15.7	5.59	36.0	142	63.5	533	171	30	19
3471	Lahoma/Chicksaha, OK	1286	2	39.3	97.2	51	73.7	1.8	1	16.4	6.56	40.1	202	64.2	217	208	31	14
3472	Lahoma/Chicksaha, OK	1288	6	32.6	86.6	55	77.2	1.7	1	13.7	6.22	46.2	169	86.7	370	245	36	N/A
3473	Lahoma/Chicksaha, OK	1290	2	38.0	97.2	55	76.8	1.5	1	14.6	6.37	43.9	179	81.7	403	240	33	14
3474	Lahoma/Chicksaha, OK	1294	2	37.3	95.9	43	77.4	2.0	1	15.2	5.30	36.0	152	61.1	478	167	28	17
3475	Lahoma/Chicksaha, OK	1296	2	40.8	98.1	61	76.0	1.7	1	15.8	6.41	40.8	140	83.7	549	232	35	18
3476	Lahoma/Chicksaha, OK	1305	2	35.6	95.9	46	75.2	1.8	1	14.9	5.04	35.2	145	61.6	534	148	28	13
3477	Lahoma/Chicksaha, OK	1307	2	38.0	96.5	55	76.5	1.8	1	15.7	6.90	45.5	172	96.5	315	244	31	9
3478	Lahoma/Chicksaha, OK	1308	2	34.4	97.2	54	78.0	1.6	1	14.9	6.14	42.5	160	85.4	256	209	29	14
3479	Lahoma/Chicksaha, OK	1310	2	39.7	96.2	58	79.4	2.4	1	13.3	6.60	50.2	145	83.6	126	269	43	14
3480	Lahoma/Chicksaha, OK	1312	2	38.0	98.4	56	76.9	2.2	1	15.6	7.36	49.3	148	79.8	513	301	26	9
3481	Lahoma/Chicksaha, OK	1313	2	39.3	96.9	55	74.1	2.2	1	17.2	7.28	43.5	161	85.2	306	268	33	14
3482	Lahoma/Chicksaha, OK	1314	2	35.5	96.7	45	74.5	2.6	1	18.2	7.29	40.4	164	89.4	64	295	38	21
3483	Lahoma/Chicksaha, OK	1323	2	37.3	94.8	49	73.6	2.6	2	17.0	6.64	39.0	182	72.3	161	261	25	16
3484	Lahoma/Chicksaha, OK	1368	2	41.5	88.6	52	79.4	2.1	2	14.9	6.11	41.9	175	71.5	177	231	39	18
3485	Lahoma/Chicksaha, OK	1369	2	35.9	95.0	52	77.5	2.1	2	16.5	7.06	43.4	188	87.5	314	296	30	11
3486	Lahoma/Chicksaha, OK	1370	2	39.0	97.9	52	78.2	n.d.	3	15.6	6.50	42.2	169	81.6	146	281	38	17
3487	Lahoma/Chicksaha, OK	1017	6	29.2	69.5	52	74.9	2.1	2	14.3	6.22	45.3	150	80.8	307	257	24	N/A
3488	Lahoma/Chicksaha, OK	1018	2	37.2	95.3	54	79.5	n.d.	3	12.0	5.63	47.2	105	61.6	210	216	41	15
3489	Lahoma/Chicksaha, OK	CONRAD MALT CHECK	2	40.7	98.2	88	84.6	1.6	1	11.7	5.80	52.7	135	100.9	136	247	56	26
3490	Lahoma/Chicksaha, OK	1051	2	39.7	96.1	44	74.1	n.d.	3	15.1	4.74	32.8	142	54.4	547	148	24	13
3491	Lahoma/Chicksaha, OK	1066	2	36.0	90.5	46	77.6	1.8	2	16.1	5.62	36.3	169	72.5	321	196	26	17
3492	Lahoma/Chicksaha, OK	1070	2	38.5	97.6	52	76.6	2.9	2	17.2	6.80	40.5	160	82.0	165	297	32	15
3493	Lahoma/Chicksaha, OK	1073	2	36.5	93.0	47	74.7	n.d.	3	18.1	5.28	30.7	178	58.7	403	169	26	15
3494	Lahoma/Chicksaha, OK	1082	6	36.4	93.8	49	78.3	2.4	2	13.8	6.02	44.0	168	80.8	357	223	42	N/A
3495	Lahoma/Chicksaha, OK	1083	6	28.2	69.6	52	78.6	1.9	1	13.1	5.27	41.7	174	80.1	275	191	40	N/A
3496	Lahoma/Chicksaha, OK	1250	2	40.0	95.5	49	77.4	3.1	1	17.1	7.09	42.6	130	90.5	285	295	33	16
3497	Lahoma/Chicksaha, OK	1253	2	36.2	92.8	43	74.9	2.3	2	15.3	5.79	38.4	149	63.3	249	199	26	12
3498	Lahoma/Chicksaha, OK	1256	2	36.4	92.1	57	77.5	1.9	1	15.3	6.73	45.2	153	88.8	227	266	31	9
3499	Lahoma/Chicksaha, OK	1257	2	37.2	90.2	47	75.0	1.8	1	16.3	5.96	37.1	147	66.4	190	203	27	15
3500	Lahoma/Chicksaha, OK	1260	2	38.2	94.5	46	76.0	1.9	1	15.3	5.35	35.8	118	73.1	420	171	27	27
3501	Lahoma/Chicksaha, OK	1261	2	34.7	96.9	50	75.8	1.9	1	14.7	5.95	40.5	156	76.7	211	204	32	14
3502	Lahoma/Chicksaha, OK	1263	2	36.3	97.1	44	73.3	1.6	1	16.0	5.43	34.3	141	64.1	298	156	28	17
3503	Lahoma/Chicksaha, OK	1265	2	41.8	97.5	41	73.7	n.d.	3	16.7	5.30	33.2	153	45.4	438	162	27	19

2022 Crop Year Breeders' Submissions

Lab No.	Location	Variety or Selection	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agtron)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (*ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)	Adjunct Quality Score	All Malt Quality Score
3504	Lahoma/Chicksaha, OK	1266	2	36.2	98.0	46	75.0	1.9	1	15.9	5.60	36.2	151	65.5	359	193	27	18
3505	Lahoma/Chicksaha, OK	1267	2	40.7	96.9	40	74.1	2.7	2	16.6	5.81	35.7	167	62.2	440	182	30	16
3506	Lahoma/Chicksaha, OK	1269	6	31.6	91.2	52	76.1	2.2	1	14.7	5.54	38.7	208	73.5	392	180	32	N/A
3507	Lahoma/Chicksaha, OK	1275	6	31.3	87.6	47	74.7	1.7	1	13.8	5.54	41.7	177	66.7	187	189	32	N/A
3508	Lahoma/Chicksaha, OK	1276	6	31.2	88.6	46	76.0	1.6	1	13.0	5.02	40.5	147	59.5	495	170	30	N/A
3509	Lahoma/Chicksaha, OK	1277	2	36.9	98.3	43	73.8	1.9	1	17.4	6.35	37.1	238	83.0	105	221	29	15
3510	Lahoma/Chicksaha, OK	1280	2	40.6	92.8	55	72.5	1.7	1	14.8	5.86	39.7	121	61.0	442	180	28	23
3511	Lahoma/Chicksaha, OK	1281	2	35.9	94.4	45	75.4	2.0	1	17.1	6.33	38.3	179	78.5	404	222	26	12
3512	Lahoma/Chicksaha, OK	1285	2	40.7	97.5	54	77.5	1.6	1	15.4	5.46	35.5	131	60.0	580	157	32	21
3513	Lahoma/Chicksaha, OK	1286	2	39.9	97.7	51	73.9	1.9	1	16.1	6.61	42.2	208	69.0	162	222	33	19
3514	Lahoma/Chicksaha, OK	1288	6	35.1	94.4	58	76.4	1.8	1	13.1	6.78	52.6	144	89.6	192	282	33	N/A
3515	Lahoma/Chicksaha, OK	1290	2	37.9	97.3	60	74.8	1.8	1	14.9	6.32	44.4	167	78.9	362	241	31	12
3516	Lahoma/Chicksaha, OK	1294	2	37.3	95.7	43	76.4	1.8	1	14.1	5.17	36.9	152	60.5	558	154	28	17
3517	Lahoma/Chicksaha, OK	1296	2	41.6	98.7	62	76.7	2.3	1	14.2	6.53	46.5	124	85.2	509	261	35	13
3518	Lahoma/Chicksaha, OK	1305	2	36.0	95.0	48	75.4	1.7	1	15.2	5.06	33.7	169	68.1	679	154	28	22
3519	Lahoma/Chicksaha, OK	1307	2	37.9	94.3	54	74.9	1.9	1	17.2	7.20	42.0	199	97.9	196	278	31	14
3520	Lahoma/Chicksaha, OK	CONRAD MALT CHECK	2	39.6	98.1	89	84.7	1.7	1	12.2	6.06	53.7	141	104.9	93	258	55	28
3521	Lahoma/Chicksaha, OK	1308	2	35.3	96.7	51	77.4	1.9	1	15.2	6.06	40.4	167	87.6	185	215	31	14
3522	Lahoma/Chicksaha, OK	1310	2	39.9	97.5	53	78.1	n.d.	3	13.9	6.38	48.7	164	82.2	136	243	33	12
3523	Lahoma/Chicksaha, OK	1312	2	36.8	98.3	56	76.0	2.7	1	15.4	6.98	45.5	147	81.8	522	297	31	9
3524	Lahoma/Chicksaha, OK	1313	2	38.3	96.7	56	74.0	2.8	2	16.8	7.15	43.1	167	90.3	243	249	32	13
3525	Lahoma/Chicksaha, OK	1314	2	35.4	97.2	43	74.1	n.d.	3	17.5	6.94	40.1	168	86.2	66	293	36	19
3526	Lahoma/Chicksaha, OK	1323	2	38.0	97.2	50	74.5	n.d.	3	15.2	6.54	44.0	179	72.5	128	267	34	18
3527	Lahoma/Chicksaha, OK	1368	2	40.4	94.1	52	78.1	2.3	2	13.7	6.04	44.8	165	70.8	153	229	38	18
3528	Lahoma/Chicksaha, OK	1369	2	35.8	95.1	53	77.0	2.0	2	16.0	6.95	43.9	198	91.9	284	286	30	11
3529	Lahoma/Chicksaha, OK	1370	2	39.0	97.1	53	78.5	2.7	2	15.2	6.51	45.0	164	84.4	163	275	36	10
3530	Lahoma/Chicksaha, OK	1017	6	30.1	74.4	47	75.0	1.8	2	15.6	5.55	36.8	172	75.0	528	219	34	N/A
3531	Lahoma/Chicksaha, OK	1018	2	38.8	93.6	52	82.1	n.d.	3	12.8	5.88	46.3	118	67.0	207	230	51	25
3532	Lahoma/Chicksaha, OK	1051	2	40.3	97.6	49	72.7	n.d.	3	14.6	5.08	35.0	116	60.6	1178	170	27	22
3533	Lahoma/Chicksaha, OK	1066	2	36.9	91.5	49	77.3	1.9	1	15.6	6.21	40.7	173	84.5	269	220	31	14
3534	Lahoma/Chicksaha, OK	1070	2	38.7	97.9	52	76.4	2.9	2	16.5	6.75	41.5	158	81.3	84	289	39	22
3535	Lahoma/Chicksaha, OK	1073	2	35.9	93.8	52	75.1	1.9	2	15.3	6.09	40.8	152	69.8	434	205	28	16
3536	Lahoma/Chicksaha, OK	1082	6	33.6	91.4	41	75.4	1.7	1	16.2	5.52	35.0	197	80.9	402	179	33	N/A
3537	Lahoma/Chicksaha, OK	1083	6	29.2	83.4	55	77.9	2.2	1	13.9	6.22	45.9	168	96.1	225	246	37	N/A
3538	Lahoma/Chicksaha, OK	1250	2	41.2	96.8	49	77.8	2.7	1	16.8	6.71	41.0	128	90.5	427	241	35	18
3539	Lahoma/Chicksaha, OK	1253	2	37.5	95.0	45	74.7	n.d.	3	14.9	5.47	36.9	150	59.6	278	168	26	15
3540	Lahoma/Chicksaha, OK	1256	2	39.2	96.2	56	76.9	1.7	1	15.6	6.02	39.5	156	84.1	373	219	28	16
3541	Lahoma/Chicksaha, OK	1257	2	36.2	95.8	47	76.0	1.8	1	15.6	5.60	36.2	150	75.4	275	187	27	15
3542	Lahoma/Chicksaha, OK	1260	2	39.7	97.5	44	75.8	1.9	1	15.5	5.31	34.5	138	72.9	639	157	30	24
3543	Lahoma/Chicksaha, OK	1261	2	34.1	97.2	50	76.8	1.8	2	14.3	5.41	39.3	160	77.1	250	175	27	20
3544	Lahoma/Chicksaha, OK	1263	2	35.9	96.6	45	72.7	1.7	1	16.8	5.27	32.1	157	65.5	368	163	28	22
3545	Lahoma/Chicksaha, OK	1265	2	41.2	97.3	41	72.8	n.d.	3	17.3	4.85	28.5	171	46.1	985	146	27	15
3546	Lahoma/Chicksaha, OK	1266	2	37.7	98.3	45	74.7	1.7	1	15.7	5.46	35.6	164	68.1	407	180	28	22
3547	Lahoma/Chicksaha, OK	1267	2	42.1	96.9	40	73.5	2.9	2	16.9	5.96	35.7	175	70.5	401	193	31	22
3548	Lahoma/Chicksaha, OK	1269	6	31.5	88.9	53	76.2	2.0	1	14.7	5.56	38.3	185	72.4	425	192	35	N/A
3549	Lahoma/Chicksaha, OK	1275	6	32.2	92.5	48	74.5	1.7	1	15.1	5.54	38.6	171	67.5	214	194	36	N/A
3550	Lahoma/Chicksaha, OK	1276	6	31.1	89.9	47	76.0	1.6	1	13.7	5.09	37.7	145	62.6	464	172	25	N/A
3551	Lahoma/Chicksaha, OK	TRADITON MALT CHECK	6	39.2	97.2	61	81.2	2.3	1	12.3	6.07	49.6	149	90.5	99	251	55	N/A
3552	Lahoma/Chicksaha, OK	1277	2	37.1	97.2	40	73.6	1.8	1	17.8	6.11	34.6	236	79.7	98	220	33	19
3553	Lahoma/Chicksaha, OK	1280	2	39.2	92.8	53	72.8	1.8	1	14.8	5.48	37.8	121	61.9	465	175	30	19
3554	Lahoma/Chicksaha, OK	1281	2	37.5	96.9	44	75.9	1.7	1	17.2	6.10	35.6	191	73.9	469	214	26	15
3555	Lahoma/Chicksaha, OK	1285	2	41.1	97.7	53	77.5	1.5	1	15.4	5.23	35.1	142	61.2	440	165	32	21
3556	Lahoma/Chicksaha, OK	1286	2	39.7	98.0	50	74.0	2.6	2	16.7	6.08	38.1	212	66.5	229	199	25	19
3557	Lahoma/Chicksaha, OK	1288	6	34.6	96.3	57	77.2	2.2	1	12.7	6.31	51.4	143	87.0	213	255	38	N/A
3558	Lahoma/Chicksaha, OK	1290	2	38.8	97.5	60	75.6	1.5	1	14.3	6.02	43.2	180	79.1	371	222	33	14
3559	Lahoma/Chicksaha, OK	1294	2	37.4	95.9	45	77.0	1.6	1	14.3	5.20	37.5	164	63.4	438	151	28	17
3560	Lahoma/Chicksaha, OK	1296	2	40.1	97.8	60	76.1	1.8	1	15.8	6.05	38.3	144	78.7	531	226	30	16
3561	Lahoma/Chicksaha, OK	1305	2	35.7	92.4	53	76.1	1.6	1	13.4	5.48	41.1	159	73.5	466	176	38	24
3562	Lahoma/Chicksaha, OK	1307	2	37.5	96.5	55	77.1	1.7	1	15.7	5.96	40.6	176	91.8	264	212	34	14
3563	Lahoma/Chicksaha, OK	1308	2	34.8	97.1	50	77.6	1.7	1	14.9	5.85	39.5	162	87.2	227	201	27	14
3564	Lahoma/Chicksaha, OK	1310	2	38.0	95.7	57	79.4	2.7	1	12.6	6.01	48.8	133	67.1	109	221	43	15
3565	Lahoma/Chicksaha, OK	1313	2	38.0	97.7	57	76.4	2.2	1	14.8	6.87	47.0	152	89.4	142	247	36	14
3566	Lahoma/Chicksaha, OK	1314	2	35.4	96.2	47	74.6	3.5	1	18.0	7.64	43.1	149	74.3	60	312	38	22
3567	Lahoma/Chicksaha, OK	1323	2	33.9	89.8	51	72.9	2.1	1	15.5	6.40	41.4	179	70.0	176	244	29	15
3568	Lahoma/Chicksaha, OK	1368	2	41.2	94.2	51	76.9	2.0	1	14.3	6.07	42.7	183	72.2	191	233	35	21
3569	Lahoma/Chicksaha, OK	1369	2	36.7	91.9	57	78.0	1.9	1	15.6	7.01	46.2	197	91.6	363	292	31	9

2022 Crop Year Breeders' Submissions

Lab No.	Location	Variety or Selection	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agron)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (*ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)	Adjunct Quality Score	All Malt Quality Score
3570	Lahoma/Chicksaha, OK	1370	2	37.6	95.2	55	79.3	2.6	2	15.2	6.47	43.8	165	80.4	228	254	34	11
3571	Aberdeen and Rexville, ID	Ab209,Pt129	2	41.4	98.9	55	80.8	2.5	1	12.6	6.47	55.6	132	84.9	48	279	54	25
3572	Aberdeen and Rexville, ID	Ab209,Pt132	2	39.0	97.4	59	81.5	2.6	1	11.0	6.18	61.6	120	90.4	35	265	55	28
3573	Aberdeen and Rexville, ID	Ab209,Pt136	2	40.3	96.4	56	81.0	2.4	1	12.6	6.74	56.6	133	81.5	17	295	57	25
3574	Aberdeen and Rexville, ID	Ab209,Pt141	2	42.4	98.5	56	82.3	2.9	1	10.6	6.20	62.1	100	86.7	57	272	50	43
3575	Aberdeen and Rexville, ID	Ab209,Pt143	2	39.5	96.4	59	81.1	2.7	1	12.3	6.59	55.1	103	76.3	63	289	52	30
3576	Aberdeen and Rexville, ID	Ab209,Pt145	2	40.9	96.4	49	80.9	2.9	1	12.8	7.12	57.7	88	69.1	10	326	47	28
3577	Aberdeen and Rexville, ID	Ab209,Pt1226	2	42.8	98.0	54	82.2	2.6	1	11.2	6.32	60.3	111	85.4	16	273	55	43
3578	Aberdeen and Rexville, ID	Ab209,Pt1227	2	38.2	96.9	57	81.2	2.6	1	11.6	6.33	57.1	129	85.0	18	280	55	23
3579	Aberdeen and Rexville, ID	Ab209,Pt233	2	39.2	97.4	60	82.1	2.5	1	10.8	6.01	58.5	109	82.3	63	262	47	40
3580	Aberdeen and Rexville, ID	Ab209,Pt234	2	40.2	97.4	58	81.9	2.5	1	10.8	5.92	57.1	109	80.9	23	255	52	42
3581	Aberdeen and Rexville, ID	Ab209,Pt237	2	40.6	98.2	55	81.7	2.9	1	10.3	6.00	59.4	100	84.3	39	265	49	47
3582		CONRAD MALT CHECK	2	40.6	98.8	90	84.8	1.8	1	12.2	5.96	50.2	120	96.2	93	233	60	30
3583	Aberdeen and Rexville, ID	Ab209,Pt1240	2	40.9	98.4	55	82.5	2.3	1	10.3	5.82	58.3	92	85.7	58	241	48	40
3584	Aberdeen and Rexville, ID	Ab209,Pt1241	2	41.5	98.4	57	81.8	2.3	1	12.1	6.34	53.6	117	80.7	47	270	54	33
3585	Aberdeen and Rexville, ID	Ab209,Pt1242	2	42.3	99.0	58	81.8	2.3	1	11.7	6.17	56.8	114	81.4	34	266	55	38
3586	Aberdeen and Rexville, ID	Ab209,Pt1243	2	39.9	96.4	51	80.9	2.8	1	13.2	6.97	54.3	116	72.3	16	298	44	29
3587	Aberdeen and Rexville, ID	Ab209,Pt1325	2	39.1	97.6	56	82.0	2.7	1	10.1	6.00	60.5	91	82.5	50	251	46	38
3588	Aberdeen and Rexville, ID	Ab209,Pt1330	2	38.6	97.8	57	82.5	2.6	1	9.6	5.68	63.0	82	80.6	78	242	46	33
3589	Aberdeen and Rexville, ID	Ab209,Pt1334	2	39.6	97.3	59	81.6	2.5	1	11.2	6.27	59.3	108	78.6	36	275	52	40
3590	Aberdeen and Rexville, ID	Ab209,Pt1335	2	41.6	97.6	56	82.0	2.4	1	10.7	5.98	56.3	111	83.8	23	256	52	42
3591	Aberdeen and Rexville, ID	Ab209,Pt1338	2	40.6	98.5	58	81.8	2.2	1	11.5	6.04	57.6	113	77.3	44	249	54	42
3592	Aberdeen and Rexville, ID	Ab209,Pt1339	2	41.9	98.4	56	81.3	2.2	1	12.8	6.81	55.6	139	81.1	21	288	57	25
3593	Aberdeen and Rexville, ID	Ab209,Pt1341	2	41.6	98.0	57	82.9	2.4	1	11.1	6.15	60.5	113	86.0	43	265	54	42
3594	Aberdeen and Rexville, ID	Ab209,Pt1342	2	40.5	98.5	58	82.9	2.4	1	11.3	6.25	56.6	116	85.1	59	258	54	38
3595	Aberdeen and Rexville, ID	Ab209,Pt1343	2	38.4	97.8	57	82.0	2.3	1	11.0	6.23	58.4	115	77.9	51	247	52	36
3596	Aberdeen and Rexville, ID	Ab209,Pt1428	2	41.9	97.2	58	81.2	2.3	1	11.8	6.46	58.0	117	83.3	27	266	54	28
3597	Aberdeen and Rexville, ID	Ab209,Pt1429	2	40.3	94.7	52	81.2	2.3	1	12.3	6.64	58.2	99	74.7	35	278	50	31
3598	Aberdeen and Rexville, ID	Ab209,Pt1431	2	42.3	99.0	57	81.6	2.5	2	11.7	6.46	58.0	124	90.9	34	283	57	30
3599	Aberdeen and Rexville, ID	Ab209,Pt1433	2	42.0	98.3	59	82.7	2.2	1	10.2	6.31	63.6	117	88.8	41	257	49	43
3600	Aberdeen and Rexville, ID	Ab209,Pt1437	2	39.7	98.2	60	81.3	2.8	2	12.1	6.56	58.3	138	92.4	29	283	54	22
3601	Aberdeen and Rexville, ID	Ab209,Pt1441	2	42.0	98.9	54	82.1	2.6	2	11.7	6.44	59.7	123	91.4	37	280	56	29
3602	Aberdeen and Rexville, ID	Ab209,Pt1445	2	40.0	98.1	61	81.8	2.4	1	11.0	6.22	59.7	115	88.5	126	252	43	32
3603	Aberdeen and Rexville, ID	Ab209,Pt1446	2	43.8	99.3	57	80.3	2.2	1	13.9	6.72	49.6	145	84.7	63	273	45	26
3604	Aberdeen and Rexville, ID	Ab209,Pt1523	2	42.4	98.9	52	81.0	2.3	1	11.9	6.60	56.0	128	90.6	17	287	55	26
3605	Aberdeen and Rexville, ID	Ab209,Pt1524	2	45.1	98.8	51	79.7	3.1	2	14.4	7.48	54.2	161	93.8	14	314	44	23
3606	Aberdeen and Rexville, ID	Ab209,Pt1538	2	39.2	93.5	55	78.1	2.1	1	16.1	7.08	45.8	169	86.4	51	284	44	18
3607	Aberdeen and Rexville, ID	Ab209,Pt1544	2	39.8	98.0	53	81.8	2.5	1	10.7	6.11	60.8	97	92.5	57	258	43	36
3608	Aberdeen and Rexville, ID	Ab209,Pt1628	2	41.7	99.0	57	80.6	2.3	1	11.4	6.24	58.9	106	85.5	51	251	51	37
3609	Aberdeen and Rexville, ID	Ab209,Pt1629	2	40.7	98.3	58	81.3	3.0	2	11.0	6.44	60.5	112	91.8	56	268	48	36
3610	Aberdeen and Rexville, ID	Ab209,Pt1632	2	41.3	97.7	53	81.4	2.4	1	12.7	6.42	53.8	107	85.5	43	261	54	32
3611	Aberdeen and Rexville, ID	Ab209,Pt1633	2	43.0	97.9	53	81.4	2.3	1	13.0	6.72	53.1	129	85.6	31	271	53	26
3612	Aberdeen and Rexville, ID	Ab209,Pt1634	2	42.9	97.7	51	80.6	2.4	1	14.7	7.10	50.3	145	88.4	25	302	45	26
3613		CONRAD MALT CHECK	2	41.0	98.4	89	85.3	1.7	1	11.9	6.12	56.1	130	106.5	137	247	53	26
3614	Aberdeen and Rexville, ID	Ab209,Pt1636	2	40.7	98.3	57	80.4	2.0	1	13.5	6.49	49.5	145	87.2	53	262	44	25
3615	Aberdeen and Rexville, ID	Ab209,Pt1638	2	42.7	99.2	55	82.1	2.2	1	12.1	6.37	55.3	133	90.0	33	260	58	31
3616	Aberdeen and Rexville, ID	Ab209,Pt1641	2	39.1	95.1	50	81.8	3.0	2	12.1	6.74	60.5	103	80.7	30	291	51	34
3617	Aberdeen and Rexville, ID	Ab209,Pt1644	2	41.8	98.5	55	82.8	2.4	1	10.8	6.17	59.3	108	91.4	61	254	49	42
3618	Aberdeen and Rexville, ID	Ab209,Pt1645	2	39.9	96.1	54	81.5	2.0	1	11.2	5.73	54.4	109	91.3	54	286	55	40
3619	Aberdeen and Rexville, ID	Ab209,Pt1646	2	41.5	92.2	76	78.9	2.6	2	13.7	4.74	35.4	67	38.3	690	129	17	13
3620	Aberdeen and Rexville, ID	Ab209,Pt1731	2	41.1	97.7	55	80.3	2.3	1	11.6	6.00	54.4	105	87.6	98	280	54	32
3621	Aberdeen and Rexville, ID	Ab209,Pt1734	2	43.6	98.4	53	80.8	1.7	1	13.6	6.34	47.2	145	86.1	23	310	45	26
3622	Aberdeen and Rexville, ID	Ab209,Pt1735	2	42.1	98.1	54	80.7	1.8	1	12.3	6.02	50.3	128	87.6	18	284	55	26
3623	Aberdeen and Rexville, ID	Ab209,Pt1739	2	40.1	97.4	57	80.9	2.2	1	11.2	6.03	55.4	110	88.3	33	284	51	37
3624	Aberdeen and Rexville, ID	Ab209,Pt1742	2	42.4	99.3	53	81.9	1.9	1	11.5	5.83	53.7	124	89.3	17	262	61	36
3625	Aberdeen and Rexville, ID	Ab209,Pt1744	2	39.6	96.8	53	81.6	2.1	1	12.0	6.00	51.9	109	79.8	42	272	52	35
3626	Aberdeen and Rexville, ID	Ab209,Pt1825	2	43.9	98.4	51	80.6	1.9	1	13.1	6.30	51.1	151	91.7	16	300	50	26
3627	Aberdeen and Rexville, ID	Ab209,Pt1826	2	43.1	96.3	51	79.1	2.1	1	13.4	6.54	50.2	144	90.7	17	320	47	21
3628	Aberdeen and Rexville, ID	Ab209,Pt1827	2	43.6	98.0	53	80.6	1.9	1	12.6	6.19	49.2	146	89.4	17	305	55	26
3629	Aberdeen and Rexville, ID	Ab209,Pt1829	2	41.1	97.5	59	81.8	2.3	1	9.6	5.50	61.0	95	93.9	64	266	52	35
3630	Aberdeen and Rexville, ID	Ab209,Pt1830	2	40.9	98.2	56	82.6	2.1	1	9.7	5.38	60.9	89	92.7	48	252	52	35
3631	Aberdeen and Rexville, ID	Ab209,Pt1831	2	42.4	98.3	57	81.9	1.8	1	11.6	5.76	52.2	125	89.7	19	273	61	31
3632	Aberdeen and Rexville, ID	Ab209,Pt1832	2	41.3	96.9	55	81.9	1.8	1	11.7	5.82	51.0	114	85.0	25	284	57	37
3633	Aberdeen and Rexville, ID	Ab209,Pt1834	2	42.7	98.1	52	81.4	1.9	1	13.2	6.07	47.3	130	89.0	24	296	53	26
3634	Aberdeen and Rexville, ID	Ab209,Pt1842	2	39.8	95.7	54	80.7	2.2	1	10.7	5.60	53.3	98	83.5	37	267	43	31
3635	Aberdeen and Rexville, ID	Ab209,Pt1845	2	39.3	95.4	48	80.6	2.7	1	12.2	6.65	55.3	84	70.7	6	373	45	26

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Lab No.	Location	Variety or Selection	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agron)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (*ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)	Adjunct Quality Score	All Malt Quality Score
3636	Aberdeen and Renville, ID	Ab209,Pt846	2	43.1	99.1	54	80.6	1.7	1	13.5	6.31	47.6	140	87.0	14	303	50	26
3637	Aberdeen and Renville, ID	Ab209,Pt922	2	47.1	98.9	49	80.9	2.6	1	11.6	6.00	55.1	111	90.0	23	305	55	33
3638	Aberdeen and Renville, ID	Ab209,Pt925	2	43.8	97.6	53	81.2	1.8	1	10.8	5.90	56.5	124	96.5	18	293	56	31
3639	Aberdeen and Renville, ID	Ab209,Pt935	2	43.6	97.5	54	80.9	1.6	1	13.2	6.14	46.9	153	87.4	19	285	55	26
3640	Aberdeen and Renville, ID	Ab209,Pt936	2	43.5	98.7	53	81.2	1.5	1	13.6	6.34	48.7	156	88.0	18	278	48	26
3641	Aberdeen and Renville, ID	Ab209,Pt937	2	43.7	99.2	52	80.7	1.6	1	14.2	6.48	46.9	167	92.8	17	306	50	26
3642	Aberdeen and Renville, ID	Ab209,Pt938	2	43.0	98.7	52	81.0	2.2	1	13.1	6.51	51.8	154	90.1	27	267	50	26
3643	Aberdeen and Renville, ID	Ab209,Pt941	2	40.4	98.3	55	82.5	2.9	1	9.6	5.65	64.3	95	89.2	60	240	48	38
3644		CONRAD MALT CHECK	2	40.4	97.8	90	84.4	1.9	1	11.8	5.85	51.0	142	100.1	128	239	56	26
3645	Aberdeen and Renville, ID	Ab209,Pt945	2	40.4	97.9	56	81.7	2.9	1	10.7	5.86	57.0	115	84.9	42	247	52	42
3646	Aberdeen and Renville, ID	Ab209,Pt1027	2	42.1	98.2	53	81.3	2.9	1	11.5	6.16	57.9	117	88.9	29	273	55	34
3647	Aberdeen and Renville, ID	Ab209,Pt1028	2	43.1	99.1	53	81.7	3.2	1	11.5	6.14	58.4	115	91.6	36	251	55	43
3648	Aberdeen and Renville, ID	Ab209,Pt1029	2	42.3	98.7	53	81.1	2.9	1	11.8	6.30	56.7	122	91.7	19	280	58	26
3649	Aberdeen and Renville, ID	Ab209,Pt1032	2	41.4	97.8	55	81.5	2.8	1	11.6	6.03	55.6	115	91.5	26	259	54	28
3650	Aberdeen and Renville, ID	Ab209,Pt1033	2	42.1	97.8	55	81.7	3.0	1	11.0	5.98	56.0	119	90.8	28	264	58	39
3651	Aberdeen and Renville, ID	Ab209,Pt1034	2	40.6	96.6	51	80.7	2.8	1	12.2	6.49	57.1	119	85.0	18	293	51	28
3652	Aberdeen and Renville, ID	Ab209,Pt1037	2	39.7	97.6	54	79.6	2.3	1	15.7	6.73	44.1	163	85.9	27	275	47	24
3653	Aberdeen and Renville, ID	Ab209,Pt1038	2	41.1	97.5	55	80.9	2.3	1	13.7	6.46	49.3	135	79.4	37	260	44	25
3654	Aberdeen and Renville, ID	Ab209,Pt1044	2	41.4	98.6	54	81.9	2.1	1	11.2	5.85	53.0	108	78.4	82	234	57	42
3655	Aberdeen and Renville, ID	Ab209,Pt1123	2	40.1	94.8	46	79.2	3.0	1	11.6	5.88	52.5	110	82.9	17	258	51	27
3656	Aberdeen and Renville, ID	Ab209,Pt1124	2	43.7	96.8	51	80.4	2.7	1	11.1	6.09	59.6	112	90.9	12	265	52	38
3657	Aberdeen and Renville, ID	Ab209,Pt1127	2	43.1	98.8	53	80.2	2.2	1	13.2	6.45	50.4	140	89.7	19	270	50	26
3658	Aberdeen and Renville, ID	Ab209,Pt1131	2	44.0	97.9	52	81.2	2.6	1	12.3	6.33	54.4	116	91.3	30	262	55	29
3659	Aberdeen and Renville, ID	Ab209,Pt1132	2	41.6	97.8	56	81.5	2.6	1	11.2	6.12	60.0	102	89.2	58	256	54	42
3660	Aberdeen and Renville, ID	Ab209,Pt1134	2	41.9	95.3	55	81.2	2.1	1	11.8	5.79	51.6	97	71.1	55	221	53	31
3661	Aberdeen and Renville, ID	Ab209,Pt1142	2	39.2	97.6	55	82.0	2.6	1	10.4	5.56	56.3	91	85.5	86	229	50	38
3662	Aberdeen and Renville, ID	Ab209,Pt1222	2	46.3	99.0	49	81.1	2.3	1	12.4	6.39	52.3	134	96.1	25	266	58	26
3663	Aberdeen and Renville, ID	Ab209,Pt1224	2	44.9	98.5	51	80.6	2.1	1	12.6	6.37	53.5	139	87.5	17	255	55	26
3664	Aberdeen and Renville, ID	Ab209,Pt1230	2	42.3	98.5	52	81.0	2.4	1	12.1	6.29	54.2	126	93.4	28	254	55	26
3665	Aberdeen and Renville, ID	Ab209,Pt1231	2	41.0	95.4	49	80.3	2.9	1	12.6	6.77	54.8	89	79.8	6	303	47	25
3666	Aberdeen and Renville, ID	Ab209,Pt1239	2	41.9	97.2	53	81.5	2.5	1	12.8	6.80	55.4	131	88.3	46	275	57	30
3667	Aberdeen and Renville, ID	Ab209,Pt1241	2	40.1	97.3	56	81.3	2.6	1	11.1	6.34	58.7	105	80.9	53	269	54	37
3668	Aberdeen and Renville, ID	Rex,Pt317	2	44.3	98.9	69	82.5	2.2	1	11.6	6.44	59.5	121	88.1	94	267	58	31
3669	Aberdeen and Renville, ID	Rex,Pt322	2	45.3	99.1	72	81.7	2.3	1	13.7	7.05	52.1	140	89.6	83	303	48	31
3670	Aberdeen and Renville, ID	Rex,Pt323	2	42.3	98.2	76	83.4	2.4	1	10.5	6.10	62.4	99	86.9	107	255	42	35
3671	Aberdeen and Renville, ID	Rex,Pt324	2	41.2	98.1	75	83.4	2.4	1	10.0	5.95	62.7	89	85.2	99	238	48	40
3672	Aberdeen and Renville, ID	Rex,Pt325	2	40.4	97.9	72	83.3	2.3	1	10.5	6.02	62.3	103	84.4	64	246	49	42
3673	Aberdeen and Renville, ID	Rex,Pt327	2	41.6	98.0	73	83.7	2.3	1	10.2	5.91	62.9	92	86.3	62	245	48	40
3674	Aberdeen and Renville, ID	Rex,Pt328	2	39.9	98.0	73	82.7	1.9	1	12.0	6.29	53.6	146	86.9	52	258	55	28
3675		CONRAD MALT CHECK	2	40.6	98.1	88	85.0	1.7	1	12.5	6.04	50.6	140	104.1	140	248	53	26
3676	Aberdeen and Renville, ID	Rex,Pt332	2	43.6	98.6	68	79.5	2.1	1	15.7	7.06	45.8	170	89.2	58	304	50	24
3677	Aberdeen and Renville, ID	Rex,Pt333	2	42.6	97.0	73	80.6	2.1	1	13.8	6.67	49.5	160	87.6	41	280	45	26
3678	Aberdeen and Renville, ID	Rex,Pt334	2	43.2	97.6	70	81.2	2.0	1	13.1	6.58	51.1	149	88.9	28	281	53	26
3679	Aberdeen and Renville, ID	Rex,Pt337	2	43.7	98.8	71	81.2	2.2	1	13.9	6.90	53.5	153	93.0	61	292	48	26
3680	Aberdeen and Renville, ID	Rex,Pt342	2	45.0	99.5	74	81.4	2.2	1	13.4	6.90	54.2	142	92.2	58	301	53	26
3681	Aberdeen and Renville, ID	Rex,Pt420	2	42.9	97.6	75	82.5	2.3	2	10.7	5.80	55.9	111	88.7	97	247	52	42
3682	Aberdeen and Renville, ID	Rex,Pt421	2	43.1	98.6	73	82.5	2.2	1	11.9	6.01	52.9	122	86.5	93	251	58	31
3683	Aberdeen and Renville, ID	Rex,Pt424	2	41.9	98.0	72	82.7	2.1	1	12.2	6.31	52.8	134	83.4	68	267	57	30
3684	Aberdeen and Renville, ID	Rex,Pt426	2	45.3	99.4	70	82.2	2.2	1	12.6	5.81	46.8	131	90.8	77	306	66	31
3685	Aberdeen and Renville, ID	Rex,Pt427	2	43.7	98.8	70	82.8	2.3	1	12.5	6.37	52.8	133	90.6	110	285	54	27
3686	Aberdeen and Renville, ID	Rex,Pt428	2	43.2	99.0	68	82.6	1.9	1	12.1	6.19	54.0	144	86.8	99	266	58	31
3687	Aberdeen and Renville, ID	Rex,Pt432	2	42.9	98.4	68	79.7	1.9	1	14.9	6.17	43.2	171	90.5	64	296	50	27
3688	Aberdeen and Renville, ID	Rex,Pt433	2	40.2	96.6	72	80.7	1.8	1	12.5	5.99	48.4	150	86.7	37	255	57	25
3689	Aberdeen and Renville, ID	Rex,Pt437	2	42.4	97.1	75	82.1	1.8	1	11.7	5.71	50.8	131	88.3	34	259	61	31
3690	Aberdeen and Renville, ID	Rex,Pt438	2	41.7	97.7	76	82.5	1.8	1	11.2	5.77	52.8	129	97.2	40	255	60	35
3691	Aberdeen and Renville, ID	Rex,Pt440	2	42.6	98.5	76	83.9	2.1	1	11.4	5.94	54.7	126	96.5	119	254	57	32
3692	Aberdeen and Renville, ID	Rex,Pt517	2	43.1	98.5	71	83.1	1.8	1	11.3	5.80	54.3	135	95.7	24	261	61	36
3693	Aberdeen and Renville, ID	Rex,Pt518	2	45.6	98.9	68	82.1	1.8	1	12.8	6.30	53.1	148	94.3	31	289	58	31
3694	Aberdeen and Renville, ID	Rex,Pt529	2	42.2	96.7	73	81.4	1.9	1	11.7	6.00	53.6	123	91.3	32	263	61	26
3695	Aberdeen and Renville, ID	Rex,Pt532	2	42.4	96.9	74	82.0	2.1	1	11.4	5.85	52.1	117	90.9	53	257	58	39
3696	Aberdeen and Renville, ID	Rex,Pt534	2	42.8	98.6	72	81.7	1.9	1	12.4	5.99	49.0	133	92.4	51	256	61	31
3697	Aberdeen and Renville, ID	Rex,Pt535	2	41.6	96.5	70	81.8	1.7	1	14.2	6.09	44.8	147	87.7	61	253	52	33
3698	Aberdeen and Renville, ID	Rex,Pt539	2	40.3	97.5	74	83.0	1.7	1	10.3	5.57	56.9	119	97.8	59	235	56	43
3699	Aberdeen and Renville, ID	Rex,Pt542	2	45.4	99.2	72	82.7	1.9	1	11.6	6.10	55.5	127	97.7	50	272	58	31
3700	Aberdeen and Renville, ID	Rex,Pt619	2	44.8	98.9	68	81.8	2.0	1	13.5	6.34	48.6	154	96.8	49	262	48	31
3701	Aberdeen and Renville, ID	Rex,Pt623	2	41.5	98.2	73	83.5	2.0	1	10.0	5.53	56.7	103	93.9	71	243	56	47

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Lab No.	Location	Variety or Selection	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agron)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (*ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)	Adjunct Quality Score	All Malt Quality Score
3702	Aberdeen and Rexville, ID	RexPt624	2	43.3	99.2	72	82.4	2.2	1	11.8	6.23	54.4	127	94.6	97	271	58	31
3703	Aberdeen and Rexville, ID	RexPt631	2	40.3	97.1	67	79.7	1.8	1	14.8	6.51	44.6	155	96.2	46	275	49	26
3704	Aberdeen and Rexville, ID	RexPt633	2	39.4	93.4	71	79.5	1.9	1	14.2	6.30	45.2	155	88.2	69	271	47	21
3705	Aberdeen and Rexville, ID	RexPt636	2	40.3	97.7	75	83.0	2.0	1	10.5	5.71	59.8	105	100.7	50	226	52	42
3706	Aberdeen and Rexville, ID	CONRAD MALT CHECK	2	40.4	98.4	89	85.8	1.9	1	12.3	6.28	55.3	118	105.0	196	242	47	26
3707	Aberdeen and Rexville, ID	RexPt641	2	42.2	98.0	76	84.6	2.4	1	10.7	6.50	63.1	103	92.9	84	263	50	43
3708	Aberdeen and Rexville, ID	RexPt718	2	43.0	98.2	72	83.2	2.2	1	10.9	5.96	55.9	117	87.2	47	239	53	39
3709	Aberdeen and Rexville, ID	RexPt724	2	40.4	96.8	74	82.0	2.3	1	12.7	6.68	53.5	124	83.2	43	278	57	30
3710	Aberdeen and Rexville, ID	RexPt726	2	38.6	97.2	77	83.0	2.1	1	10.9	5.88	57.6	124	92.5	71	237	53	33
3711	Aberdeen and Rexville, ID	RexPt729	2	37.0	92.2	75	80.6	2.0	1	12.7	6.08	51.0	136	86.8	39	246	50	21
3712	Aberdeen and Rexville, ID	RexPt733	2	41.0	97.3	70	79.7	2.3	1	14.7	6.86	47.5	156	95.6	60	291	44	23
3713	Aberdeen and Rexville, ID	RexPt734	2	40.6	97.3	69	81.5	2.0	1	15.4	6.97	46.0	164	93.4	46	301	52	30
3714	Aberdeen and Rexville, ID	Rex, PT524	2	44.2	99.0	66	78.9	2.1	1	14.8	7.06	49.0	157	93.2	46	310	42	21
3715	Aberdeen and Rexville, ID	RexPt738	2	40.4	96.4	74	81.5	1.9	1	11.7	5.95	52.6	124	90.1	67	246	60	25
3716	Aberdeen and Rexville, ID	RexPt742	2	38.3	95.1	78	82.8	2.1	1	10.3	5.59	56.3	91	90.8	108	227	46	34
3717	Aberdeen and Rexville, ID	RexPt1021	2	42.1	98.2	73	82.1	1.8	1	12.1	6.20	54.4	134	92.5	34	260	58	31
3718	Aberdeen and Rexville, ID	RexPt1023	2	39.8	97.8	77	82.9	2.4	1	10.3	5.77	62.2	101	89.3	56	243	50	45
3719	Aberdeen and Rexville, ID	RexPt1024	2	40.4	97.6	75	82.6	1.5	1	11.7	6.03	53.5	121	85.3	75	238	57	30
3720	Aberdeen and Rexville, ID	RexPt1025	2	38.4	96.7	76	83.3	2.0	1	11.6	5.81	52.9	112	91.6	94	240	55	35
3721	Aberdeen and Rexville, ID	RexPt1031	2	38.9	97.0	71	80.1	2.0	1	15.1	6.84	46.0	148	89.0	95	270	47	23
3722	Aberdeen and Rexville, ID	RexPt1038	2	39.7	96.3	74	80.2	1.7	1	13.3	6.28	49.9	146	91.6	54	268	47	23
3723	Aberdeen and Rexville, ID	RexPt1039	2	39.2	94.8	78	81.7	1.8	1	11.0	5.62	53.3	113	91.2	64	221	55	40
3724	Aberdeen and Rexville, ID	RexPt1040	2	38.0	94.9	78	81.5	2.1	1	11.3	5.75	51.4	111	88.9	59	223	53	38
3725	Aberdeen and Rexville, ID	RexPt1117	2	43.6	98.4	69	79.6	2.0	1	14.1	6.52	46.4	149	91.9	69	278	50	24
3726	Aberdeen and Rexville, ID	RexPt1118	2	40.1	97.8	74	82.1	1.7	1	10.4	5.58	56.4	115	92.7	22	231	56	43
3727	Aberdeen and Rexville, ID	RexPt1122	2	40.4	97.3	77	82.4	2.0	1	10.3	5.63	59.3	101	91.9	52	226	52	47
3728	Aberdeen and Rexville, ID	RexPt1123	2	41.3	98.5	74	82.1	2.2	2	11.9	6.18	53.4	122	97.7	93	253	56	29
3729	Aberdeen and Rexville, ID	RexPt1127	2	42.0	97.8	73	81.6	2.0	1	14.0	6.34	48.4	132	88.2	130	260	44	27
3730	Aberdeen and Rexville, ID	RexPt1130	2	39.2	96.5	75	80.4	2.0	1	13.2	6.17	47.7	125	84.3	90	255	47	23
3731	Aberdeen and Rexville, ID	RexPt1131	2	40.3	97.3	75	80.0	2.1	1	13.0	6.14	50.8	125	86.2	68	249	49	25
3732	Aberdeen and Rexville, ID	RexPt1136	2	41.2	97.5	75	81.5	2.0	1	12.5	5.95	49.2	114	86.0	64	234	57	37
3733	Aberdeen and Rexville, ID	RexPt1216	2	41.5	97.6	66	79.7	1.9	1	15.4	6.57	43.8	156	83.6	66	277	49	26
3734	Aberdeen and Rexville, ID	RexPt1218	2	41.0	98.3	71	80.6	1.7	1	13.4	6.24	46.6	177	86.9	49	253	54	25
3735	Aberdeen and Rexville, ID	RexPt1220	2	41.7	98.1	71	79.2	2.0	2	14.7	6.48	45.0	159	86.7	125	269	41	15
3736	Aberdeen and Rexville, ID	RexPt1225	2	39.0	95.9	75	81.2	2.0	2	11.3	5.73	54.2	111	83.1	146	230	50	30
3737	Aberdeen and Rexville, ID	CONRAD MALT CHECK	2	40.7	98.5	90	84.8	1.7	1	12.3	5.74	48.6	126	98.7	110	237	56	26
3738	Aberdeen and Rexville, ID	RexPt1228	2	39.9	96.8	75	80.9	2.0	2	12.5	6.20	52.1	132	83.1	68	260	51	22
3739	Aberdeen and Rexville, ID	RexPt1230	2	38.4	92.9	74	80.2	2.0	2	13.3	6.17	46.7	128	81.8	106	265	47	18
3740	Aberdeen and Rexville, ID	RexPt1235	2	40.6	97.1	76	81.0	1.8	1	13.4	6.11	47.7	126	80.3	77	249	52	25
3741	Aberdeen and Rexville, ID	RexPt1236	2	41.1	96.8	79	81.9	2.0	1	11.6	5.80	50.3	106	84.5	88	250	57	37
3742	Aberdeen and Rexville, ID	RexPt1238	2	41.7	98.7	72	80.8	1.9	1	13.7	6.38	48.8	132	83.1	89	267	44	25
3743	Aberdeen and Rexville, ID	RexPt1241	2	41.7	97.3	76	81.6	2.0	1	12.8	6.16	48.6	124	85.3	123	260	53	26
3744	Aberdeen and Rexville, ID	RexPt1318	2	43.9	99.0	68	81.1	2.0	1	12.8	6.11	51.7	124	84.7	49	260	58	26
3745	Aberdeen and Rexville, ID	RexPt1320	2	41.7	98.3	76	81.7	1.9	1	10.1	5.73	59.7	98	85.3	70	224	48	43
3746	Aberdeen and Rexville, ID	RexPt1322	2	42.4	97.6	72	80.5	1.8	1	13.0	6.30	51.6	153	88.7	72	239	55	26
3747	Aberdeen and Rexville, ID	RexPt1324	2	41.7	98.9	73	81.4	2.2	2	13.5	6.41	50.5	141	86.2	133	246	47	20
3748	Aberdeen and Rexville, ID	RexPt1328	2	39.1	97.1	76	82.1	2.2	2	11.7	6.09	52.1	117	83.6	119	243	47	26
3749	Aberdeen and Rexville, ID	RexPt1331	2	40.0	96.8	74	80.8	1.8	1	12.0	6.36	56.6	127	86.8	86	260	52	23
3750	Aberdeen and Rexville, ID	RexPt1333	2	40.7	97.4	70	78.1	1.7	1	16.0	6.79	43.2	164	85.0	77	271	46	23
3751	Aberdeen and Rexville, ID	RexPt1335	2	40.3	98.1	69	78.8	2.2	2	15.1	6.99	48.7	162	86.8	92	281	40	19
3752	Aberdeen and Rexville, ID	RexPt1344	2	39.8	95.7	71	78.5	1.6	1	14.6	6.57	45.1	159	79.7	106	260	40	14
3753	Aberdeen and Rexville, ID	RexPt1346	2	40.7	97.6	68	77.4	1.9	1	16.3	7.30	47.1	160	86.5	89	292	37	20
3754	Aberdeen and Rexville, ID	RexPt1347	2	41.1	97.3	66	77.7	1.7	1	16.1	7.15	45.0	152	79.8	94	277	42	23
3755	Aberdeen and Rexville, ID	RexPt1426	2	40.5	97.3	75	82.6	1.9	2	10.5	5.96	57.0	98	81.5	118	235	43	38
3756	Aberdeen and Rexville, ID	RexPt1427	2	40.7	97.8	78	82.3	2.1	2	10.6	6.00	61.3	99	83.8	181	236	37	30
3757	Aberdeen and Rexville, ID	RexPt1430	2	40.1	96.6	73	81.6	1.5	1	11.8	6.07	56.2	123	82.8	62	241	57	30
3758	Aberdeen and Rexville, ID	RexPt1431	2	40.5	97.0	71	80.3	1.6	1	14.2	6.59	48.1	164	88.5	136	260	40	21
3759	Aberdeen and Rexville, ID	RexPt1432	2	40.2	98.6	76	81.2	1.6	1	12.2	5.98	50.7	139	86.0	83	248	60	25
3760	Aberdeen and Rexville, ID	RexPt1434	2	39.5	96.0	74	80.8	1.5	1	13.3	6.04	46.3	146	84.6	139	254	48	19
3761	Aberdeen and Rexville, ID	RexPt1437	2	40.2	96.0	73	80.2	1.5	1	14.0	6.09	46.7	158	82.1	175	251	42	18
3762	Aberdeen and Rexville, ID	RexPt1440	2	40.5	96.9	75	81.8	1.5	1	12.4	6.58	56.4	141	82.1	103	239	53	26
3763	Aberdeen and Rexville, ID	RexPt1441	2	39.5	93.6	84	80.4	0.9	1	10.8	4.88	49.9	98	62.0	315	155	35	29
3764	Aberdeen and Rexville, ID	RexPt1443	2	42.4	98.4	72	79.2	1.5	1	14.4	6.73	48.6	156	82.2	64	269	42	21
3765	Aberdeen and Rexville, ID	RexPt1444	2	41.5	89.0	81	80.6	n.d.	3	16.5	5.74	35.6	98	40.0	802	143	17	21
3766	Pullman, WA	AC Metcalf	2	38.4	76.0	81	75.4	1.2	1	16.8	6.08	36.4	165	71.0	408	216	23	12
3767	Pullman, WA	CDC Copeland	2	34.2	72.0	73	72.1	1.2	1	18.6	6.32	35.0	179	81.2	336	215	21	7

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Lab No.	Location	Variety or Selection	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agrton)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (*ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)	Adjunct Quality Score	All Malt Quality Score
3768		CONRAD MALT CHECK	2	41.0	98.5	89	84.1	1.3	1	11.3	5.99	55.8	133	96.5	93	238	60	35
3769	Pullman, WA	LCSS Opera	2	34.4	74.8	67	74.2	1.6	1	15.3	5.47	36.1	127	72.4	425	189	26	13
3770	Pullman, WA	AAC Connect	2	40.8	78.8	71	75.1	1.4	1	17.3	6.62	39.9	219	104.5	155	225	25	13
3771	Pullman, WA	Havener	2	37.2	58.8	95	78.9	n.d.	3	16.0	4.95	31.1	99	53.9	820	132	18	9
3772	Pullman, WA	Lyon	2	38.3	82.8	77	73.4	1.0	1	15.7	4.93	32.9	135	51.6	520	144	25	10
3773	Pullman, WA	X20001-51	2	34.4	78.8	78	76.4	1.1	1	15.7	5.50	35.5	117	70.6	387	174	20	20
3774	Pullman, WA	X20006-43	2	34.9	80.1	74	74.5	1.1	1	16.4	5.75	35.2	160	73.5	154	177	19	17
3775	Pullman, WA	X20029-30	2	40.3	84.4	69	78.7	1.7	1	15.0	6.67	45.0	151	97.8	74	266	41	15
3776	Pullman, WA	X20006-18	2	37.7	86.6	75	78.6	1.4	1	15.1	6.44	44.2	148	86.4	91	258	40	17
3777	Pullman, WA	X20029-7	2	38.9	85.2	71	75.7	1.2	1	16.1	5.71	35.7	142	76.2	412	201	27	12
3778	Pullman, WA	X20005-25	2	38.3	84.9	79	75.3	1.1	1	15.7	5.23	34.0	136	59.6	455	143	25	10
3779	Pullman, WA	X20006-17	2	39.2	87.3	78	78.0	1.2	1	15.8	5.72	37.3	131	70.9	206	194	31	18
3780	Pullman, WA	X20001-57	2	36.9	84.6	83	78.6	1.3	1	14.6	6.05	43.2	135	79.0	320	223	30	7
3781	Pullman, WA	X20003-23	2	31.7	82.7	72	78.7	2.0	1	14.4	6.22	46.2	147	85.9	145	247	33	7
3782	Pullman, WA	X20M114-161	2	39.2	85.7	80	79.0	1.5	1	15.3	6.17	42.0	162	87.0	228	236	35	14
3783	Pullman, WA	X20M114-19	2	36.9	84.6	78	74.1	1.3	1	16.5	5.20	31.6	159	60.1	240	157	23	12
3784	Pullman, WA	X20029-38	2	35.4	75.1	75	76.1	1.5	1	15.5	5.64	36.6	150	74.8	102	192	25	16
3785	Pullman, WA	X20M114-128	2	32.7	82.6	81	76.3	1.9	1	16.1	6.91	43.4	172	91.5	37	288	33	14
3786	Pullman, WA	X20006-19	2	40.0	86.6	74	75.8	1.4	1	15.9	5.28	34.0	160	63.0	237	167	28	17
3787	Pullman, WA	X20001-3	2	36.5	83.2	79	74.2	1.3	1	15.7	5.27	34.3	131	62.5	295	155	23	12
3788	Pullman, WA	X20007-50	2	37.4	84.4	83	76.2	1.7	1	16.4	6.59	40.4	164	78.5	108	247	29	12
3789	Pullman, WA	X20024-11	2	34.6	85.8	75	74.6	1.7	1	15.6	4.96	32.1	134	62.7	247	146	26	11
3790	Pullman, WA	X20007-19	2	37.1	84.2	81	76.0	1.5	1	17.4	6.27	36.9	163	86.5	149	212	24	10
3791	Pullman, WA	X20005-19	2	38.5	73.3	73	77.0	1.9	1	16.1	6.44	41.0	125	86.1	144	245	31	14
3792	Pullman, WA	X20024-46	2	36.5	83.9	78	72.8	1.2	1	16.0	4.92	31.0	128	62.0	208	138	23	8
3793	Pullman, WA	X20024-7	2	38.7	82.7	75	73.2	1.7	1	16.5	5.22	31.9	150	65.7	167	140	25	15
3794	Pullman, WA	X20024-20	2	35.4	83.7	77	71.3	1.1	1	17.1	5.21	31.3	149	64.6	287	143	23	8
3795	Pullman, WA	X20001-41	2	38.6	83.3	79	75.4	1.3	1	16.4	5.48	33.5	169	72.3	293	156	25	19
3796	Pullman, WA	X20M114-14	2	34.8	82.2	81	72.3	1.3	1	17.4	5.52	32.7	184	75.2	436	153	23	14
3797	Pullman, WA	X20024-45	2	35.6	80.4	75	72.7	1.3	1	15.7	4.81	31.4	137	66.7	271	122	23	10
3798	Pullman, WA	X20016-32	2	36.0	75.0	73	74.1	1.4	1	15.8	5.06	32.4	149	62.5	267	139	23	8
3799		CONRAD MALT CHECK	2	41.5	98.2	91	85.3	1.7	1	11.8	6.06	54.4	136	102.0	108	231	53	26
3800	Pullman, WA	X20003-21	2	36.1	77.7	75	76.3	1.4	1	16.3	5.91	38.2	169	84.7	150	187	22	10
3801	Pullman, WA	X20003-36	2	37.7	87.3	70	76.3	1.4	1	16.0	5.52	35.0	188	70.9	164	157	26	20
3802	Pullman, WA	X20024-15	2	35.7	83.2	71	74.1	1.9	2	16.0	4.97	31.9	120	55.7	448	133	22	7
3803	Pullman, WA	X20M114-10	2	34.5	82.1	81	75.2	1.3	1	15.9	5.54	35.9	174	68.7	388	169	23	17
3804	Pullman, WA	X20M114-17	2	32.1	84.8	77	78.4	1.8	1	15.4	6.47	42.3	166	107.1	152	238	30	9
3805	Pullman, WA	X20003-20	2	38.6	82.2	75	77.7	1.6	1	14.0	5.37	39.6	142	73.8	160	153	25	21
3806	Pullman, WA	X20005-4	2	37.8	80.7	74	77.9	1.5	1	15.2	5.72	38.3	141	75.7	212	202	22	7
3807	Pullman, WA	X20016-34	2	41.5	92.2	78	77.8	n.d.	3	13.2	5.24	42.2	128	79.3	119	159	43	26
3808	Pullman, WA	X20007-65	2	41.2	89.7	79	79.6	1.7	1	14.9	6.53	46.5	165	95.4	237	238	40	14
3809	Pullman, WA	X20001-6	2	39.5	88.5	82	79.4	1.4	1	14.3	5.47	38.9	128	88.2	358	189	38	15
3810	Pullman, WA	X20005-7	2	44.3	89.2	73	78.3	1.6	1	15.1	6.10	40.7	134	84.8	148	217	41	20
3811	Pullman, WA	X20016-14	2	39.4	86.8	73	75.4	1.2	2	15.8	5.24	33.9	157	64.6	185	139	27	12
3812	Pullman, WA	AC Metcalf	2	36.2	85.8	79	78.0	1.9	1	17.1	6.42	38.4	174	94.6	269	242	24	10
3813	Pullman, WA	CDC Copeland	2	36.6	81.0	76	76.2	1.5	1	15.9	6.38	40.5	173	87.2	179	208	24	9
3814	Pullman, WA	LCSS Opera	2	37.6	77.3	68	77.2	1.8	1	15.0	5.73	39.8	119	76.8	277	196	19	15
3815	Pullman, WA	AAC Connect	2	40.7	83.3	73	77.5	1.6	1	16.1	6.35	40.8	178	99.3	200	204	28	13
3816	Pullman, WA	Havener	2	36.9	66.2	96	78.2	n.d.	3	16.1	4.76	30.4	88	48.6	715	127	11	3
3817	Pullman, WA	Lyon	2	38.6	79.3	76	73.8	1.3	1	15.8	5.05	33.7	121	56.2	554	145	25	10
3818	Pullman, WA	X20007-49	2	37.1	83.2	81	77.5	1.6	1	16.6	6.43	39.7	168	102.7	244	263	21	9
3819	Pullman, WA	X20006-9	2	36.1	92.2	74	77.8	1.6	1	15.0	6.06	41.4	146	79.5	151	229	31	14
3820	Pullman, WA	X20029-20	2	39.5	83.0	76	74.7	1.4	1	15.7	5.30	34.3	126	65.4	382	163	25	19
3821	Pullman, WA	X20029-28	2	41.7	84.2	73	77.1	1.6	1	15.5	6.37	41.8	184	81.5	152	250	30	13
3822	Pullman, WA	X20016-53	2	37.0	84.1	73	75.5	1.2	2	15.0	5.00	34.0	136	58.6	273	160	22	11
3823	Pullman, WA	X20007-72	2	35.9	76.4	79	76.4	1.7	1	16.4	6.73	41.8	148	95.9	215	273	26	9
3824	Pullman, WA	X20016-61	2	35.6	78.2	73	75.1	1.6	1	17.2	5.52	32.4	113	68.8	160	177	20	24
3825	Pullman, WA	X20029-14	2	40.6	81.0	71	74.8	1.5	1	17.2	5.68	33.4	146	78.8	215	193	26	14
3826	Pullman, WA	X20029-41	2	34.9	75.4	75	77.1	1.7	1	14.1	5.93	42.7	130	73.9	62	213	36	19
3827	Pullman, WA	X20016-37	2	35.9	69.0	72	73.6	1.8	1	14.6	4.78	34.0	133	60.5	251	138	19	8
3828	Pullman, WA	X20007-88	2	37.2	84.4	76	76.1	1.7	1	17.0	6.67	39.4	169	90.1	175	250	21	9
3829	Pullman, WA	X20016-48	2	41.8	86.7	70	74.2	1.5	1	16.5	5.15	32.2	149	70.3	104	147	33	23
3830		CONRAD MALT CHECK	2	40.6	98.5	90	84.9	1.5	1	12.2	5.83	50.1	146	110.4	127	235	56	26
3831	Pullman, WA	X20M114-62	2	39.0	83.0	78	74.8	1.1	1	16.3	4.93	31.3	158	77.9	490	147	25	12
3832	Pullman, WA	X20001-62	2	36.9	78.3	78	76.3	1.4	1	15.0	5.51	38.8	138	86.2	292	186	26	10
3833	Pullman, WA	X20005-1	2	42.1	87.1	65	77.0	1.8	1	16.1	6.44	40.7	156	110.4	113	268	37	20

2022 Crop Year Breeders' Submissions

Lab No.	Location	Variety or Selection	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agron)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (*ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)	Adjunct Quality Score	All Malt Quality Score
3834	Pullman, WA	X20016-29	2	39.6	88.5	75	75.4	1.6	1	16.3	5.31	33.3	144	80.6	84	168	35	26
3835	Pullman, WA	X20029-1	2	42.4	87.4	72	79.4	1.7	1	15.2	6.20	41.7	122	94.6	238	225	41	17
3836	Pullman, WA	X20M114-121	2	38.0	85.7	83	76.3	1.3	1	16.9	5.23	32.4	154	76.9	394	164	28	19
3837	Pullman, WA	X20006-37	2	40.4	91.9	73	79.0	1.4	1	13.8	4.94	36.2	127	69.8	308	155	36	26
3838	Pullman, WA	X20M114-111	2	38.7	88.0	78	78.4	1.6	1	15.4	6.43	43.2	149	98.4	209	242	35	12
3839	Pullman, WA	X20M114-120	2	37.7	87.4	81	79.1	1.7	1	14.7	6.19	45.0	144	94.0	345	226	33	7
3840	Pullman, WA	X20001-19	2	37.0	86.4	79	80.7	1.6	1	14.6	5.23	36.0	123	94.3	197	226	38	15
3841	Pullman, WA	X20001-36	2	37.8	85.0	80	80.5	1.3	1	15.4	4.95	33.6	126	73.6	330	185	36	21
3842	Pullman, WA	X20006-15	2	41.6	91.1	75	78.1	1.4	1	15.8	6.43	40.9	154	84.8	272	202	37	18
3843	Pullman, WA	X20M114-28	2	37.7	82.9	80	74.4	1.2	1	16.0	5.83	37.3	148	57.3	477	154	19	12
3844	Pullman, WA	X20001-76	2	35.6	85.1	80	77.9	1.4	1	15.2	5.86	38.6	133	101.5	296	200	25	10
3845	Pullman, WA	X20024-1	2	38.4	87.2	79	74.7	1.5	1	15.0	5.28	35.9	124	71.6	288	140	28	18
3846	Pullman, WA	X20M114-165	2	39.4	82.7	82	77.8	1.5	1	15.7	5.43	35.2	135	73.2	360	225	30	12
3847	Pullman, WA	X20007-4	2	38.6	86.6	76	78.1	1.9	1	15.2	6.24	42.9	151	108.2	170	257	35	14
3848	Pullman, WA	X20003-12	2	38.7	87.1	72	77.9	2.1	1	16.3	6.90	43.1	157	104.0	44	301	38	19
3849	Pullman, WA	X20M114-94	2	38.8	89.7	79	74.9	1.4	1	16.6	5.45	34.8	144	71.1	441	194	31	18
3850	Pullman, WA	X20016-17	2	37.3	79.0	75	74.8	1.4	1	15.5	4.97	32.9	118	66.9	327	154	20	20
3851	Pullman, WA	X20M114-160	2	40.7	85.7	74	75.9	1.6	1	16.8	6.02	37.2	166	100.6	341	235	28	14
3852	Pullman, WA	X20016-46	2	37.8	85.5	73	75.8	1.6	2	15.2	4.91	32.5	131	71.1	168	149	25	15
3853	Pullman, WA	X20007-61	2	35.4	84.0	78	77.8	1.7	1	16.0	6.31	40.2	142	109.1	287	267	26	9
3854	Pullman, WA	X20007-58	2	37.7	81.5	79	76.2	1.5	1	16.5	6.02	37.5	176	104.0	219	242	21	7
3855	Pullman, WA	X20007-18	2	37.9	79.9	75	76.0	1.4	1	15.6	6.19	41.3	163	92.2	241	252	26	9
3856	Pullman, WA	X20M114-49	2	35.4	81.0	78	75.5	1.7	1	16.1	6.28	40.0	166	96.0	175	249	21	9
3857	Pullman, WA	X20029-2	2	41.7	86.6	75	77.3	1.7	1	15.3	6.23	43.4	149	99.5	225	287	33	14
3858	Pullman, WA	X20001-15	2	33.0	82.1	84	78.7	1.5	1	17.0	6.11	37.9	165	114.3	315	255	25	7
3859	Pullman, WA	X20006-30	2	41.3	88.4	72	76.2	1.7	1	15.3	5.88	38.8	134	80.0	232	248	31	14
3860	Pullman, WA	X20024-42	2	38.2	88.7	74	74.2	1.2	1	15.5	4.62	31.0	113	54.4	352	148	21	23
3861	Pullman, WA	CONRAD MALT CHECK	2	41.5	98.1	90	84.4	1.7	1	12.3	5.71	49.6	124	123.4	176	249	53	23
3862	Pullman, WA	X20007-20	2	38.2	85.5	80	77.3	1.8	1	16.7	6.59	40.6	154	113.0	220	274	31	14
3863	Pullman, WA	X20M114-145	2	37.0	85.6	79	74.0	1.3	1	16.2	5.12	31.9	154	65.2	369	171	26	20
3864	Pullman, WA	X20M114-1	2	36.4	82.7	78	73.6	1.3	2	15.5	4.77	31.7	133	66.7	437	139	18	12
3865	Pullman, WA	X20006-8	2	37.6	86.3	70	76.1	1.5	1	16.3	5.10	32.6	128	72.6	399	156	26	20
3866	Pullman, WA	X20M114-21	2	37.9	87.3	77	75.4	1.2	1	15.6	4.85	31.6	170	73.6	497	145	26	16
3867	Pullman, WA	AC Met calf	2	37.3	85.7	80	78.4	1.6	1	15.9	6.04	39.9	183	121.1	255	229	28	12
3868	Pullman, WA	CDC Copeland	2	35.8	81.6	76	76.9	1.5	1	15.5	5.76	38.4	151	95.4	204	198	22	10
3869	Pullman, WA	LCS Opera	2	37.7	81.2	67	79.5	1.6	1	14.1	5.09	36.5	113	85.5	428	182	30	20
3870	Pullman, WA	AAC Connect	2	41.0	81.7	73	77.8	1.7	1	15.9	6.21	39.8	193	133.8	147	213	28	16
3871	Pullman, WA	Havener	2	38.4	72.0	101	80.9	n.d.	3	16.6	4.68	29.3	79	51.6	797	127	19	13
3872	Pullman, WA	Lyon	2	40.1	87.1	79	75.5	1.2	1	15.1	4.71	32.4	115	60.7	635	130	23	18
3873	Pullman, WA	X20016-59	2	38.1	88.7	79	77.0	1.6	2	15.6	5.01	33.1	133	80.4	169	149	27	14
3874	Pullman, WA	X20001-12	2	36.7	84.2	79	76.0	1.1	1	15.8	4.94	32.0	131	68.2	442	134	23	13
3875	Pullman, WA	X20M114-163	2	38.6	86.2	86	77.2	1.4	1	17.4	5.55	32.8	183	83.9	387	198	31	15
3876	Pullman, WA	X20029-42	2	35.6	74.8	77	76.1	1.3	1	14.6	4.68	32.6	134	66.8	298	124	19	13
3877	Pullman, WA	X20M114-47	2	32.3	80.5	80	78.5	1.6	1	15.8	6.36	41.1	176	120.5	105	261	33	12
3878	Pullman, WA	X20M114-125	2	36.3	82.7	77	74.0	1.4	1	17.9	5.40	31.0	183	88.5	398	181	26	10
3879	Pullman, WA	X20003-27	2	36.8	82.7	80	76.4	1.2	1	15.8	5.11	32.7	169	91.8	202	147	23	10
3880	Pullman, WA	X20024-13	2	33.9	78.5	73	73.0	n.d.	3	15.5	4.62	30.6	126	64.8	359	128	17	6
3881	Pullman, WA	X20016-4	2	34.7	82.7	77	72.8	n.d.	3	16.6	6.37	38.6	158	57.4	308	148	14	6
3882	Pullman, WA	X20M114-27	2	35.8	77.3	77	74.1	1.7	1	18.3	5.39	30.3	181	95.2	242	244	28	7
3883	Pullman, WA	X20M114-39	2	35.0	85.9	79	74.4	1.2	1	16.5	5.41	33.5	188	79.7	277	167	26	17
3884	Pullman, WA	X20016-51	2	36.4	71.4	74	73.7	1.3	1	15.1	4.82	33.3	122	62.5	359	135	23	8
3885	Pullman, WA	X20M114-129	2	37.6	80.9	80	74.0	1.2	1	16.4	5.10	32.3	168	70.7	302	150	23	17
3886	Pullman, WA	X20M114-105	2	34.2	79.3	75	73.1	1.5	1	17.3	5.99	34.6	180	84.4	372	230	24	7
3887	Pullman, WA	X20029-9	2	36.6	79.2	71	75.9	1.8	1	15.2	6.13	40.4	111	83.1	358	267	23	16
3888	Pullman, WA	X20003-39	2	35.2	82.2	75	75.2	1.2	1	16.9	5.46	32.5	168	65.8	142	172	26	20
3889	Pullman, WA	X20003-24	2	39.3	83.7	72	77.2	1.6	1	15.4	6.16	40.4	173	93.6	59	272	35	18
3890	Pullman, WA	X20001-40	2	34.5	78.1	82	76.2	1.1	1	16.4	5.30	32.8	189	72.2	283	171	23	17
3891	Pullman, WA	X20029-8	2	37.7	79.6	72	77.0	1.7	1	15.1	6.07	42.6	145	88.7	254	260	26	9
3892	Pullman, WA	CONRAD MALT CHECK	2	40.2	98.5	91	84.2	1.7	1	12.2	5.91	51.9	123	96.4	246	258	53	23
3893	Pullman, WA	X20M114-152	2	36.8	80.9	79	76.5	1.7	1	16.2	6.29	39.8	146	79.9	238	260	21	9
3894	Pullman, WA	X20007-38	2	35.9	70.5	80	76.3	1.6	1	16.2	6.46	40.5	132	81.7	183	273	26	9
3895	Pullman, WA	X20M114-116	2	35.6	77.3	79	74.0	1.3	1	16.3	5.06	31.7	155	60.6	434	167	23	12
3896	Pullman, WA	X20006-35	2	33.0	71.3	77	73.2	1.2	1	16.5	5.89	36.3	122	59.9	464	156	19	12
3897	Pullman, WA	X20M114-106	2	33.2	76.9	77	72.6	1.2	1	16.5	6.29	38.7	166	67.3	492	161	16	17
3898	Pullman, WA	X20024-8	2	33.4	69.1	76	72.8	1.3	1	16.1	6.45	41.4	106	61.1	249	180	18	21
3899	Pullman, WA	X20006-42	2	38.7	86.1	74	76.6	1.9	1	16.3	5.06	32.2	147	83.3	116	265	36	15

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Lab No.	Location	Variety or Selection	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agtron)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (*ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)	Adjunct Quality Score	All Malt Quality Score
3900	Pullman, WA	X20007-34	2	35.4	80.1	79	75.6	1.6	1	17.2	4.91	29.9	158	76.2	149	273	31	10
3901	Pullman, WA	X20001-1	2	36.4	79.8	80	77.5	1.4	1	15.1	5.08	33.8	106	62.9	412	209	23	12
3902	Pullman, WA	X20001-61	2	36.0	77.7	84	80.0	1.4	1	15.3	5.14	34.1	123	84.0	292	243	35	12
3903	Pullman, WA	X20001-17	2	34.9	76.6	80	75.7	1.4	1	16.2	6.15	38.9	144	86.0	311	228	21	7
3904	Pullman, WA	X20016-63	2	35.2	83.9	77	76.0	1.1	1	16.0	6.54	41.0	149	66.2	128	170	24	22
3905	Pullman, WA	X20007-37	2	33.7	79.1	78	76.5	1.5	1	18.6	5.42	30.5	181	96.3	334	259	28	7
3906	Pullman, WA	X20016-41	2	38.0	79.8	73	73.8	1.2	1	16.4	5.88	36.0	139	60.0	410	163	19	12
3907	Pullman, WA	X20006-16	2	39.9	84.3	79	76.6	1.6	1	15.9	5.88	37.3	132	70.4	358	187	24	15
3908	Pullman, WA	X20029-4	2	34.3	66.2	74	77.7	1.7	1	14.7	6.03	43.1	98	77.6	286	227	19	10
3909	Pullman, WA	X20029-37	2	35.5	69.8	77	75.6	1.2	1	14.8	4.92	34.6	130	54.6	339	132	23	8
3910	Pullman, WA	X20006-2	2	40.5	85.9	75	76.2	1.6	1	17.3	6.57	38.7	173	82.5	176	249	28	14
3911	Pullman, WA	X20016-72	2	34.7	74.2	72	72.7	1.3	1	16.2	5.14	31.8	153	53.9	147	141	26	11
3912	Pullman, WA	X20029-10	2	37.2	80.8	70	74.9	1.4	1	15.8	6.04	38.5	110	56.9	467	154	13	19
3913	Pullman, WA	X20M114-58	2	32.9	80.9	80	73.5	1.5	1	17.1	4.92	29.7	159	60.6	511	174	23	12
3914	Pullman, WA	X20029-19	2	38.0	79.4	74	75.8	1.4	1	15.7	6.58	43.0	136	70.2	264	195	24	13
3915	Pullman, WA	X20M114-107	2	37.3	86.9	80	74.8	1.3	1	16.2	5.15	32.3	144	51.0	502	160	26	15
3916	Pullman, WA	AC Metcalf	2	33.5	76.7	79	76.1	1.5	1	16.5	5.20	32.5	182	89.9	274	248	28	7
3917	Pullman, WA	CDC Copeland	2	34.9	78.1	78	75.5	1.5	1	15.9	6.19	40.0	162	84.6	130	220	24	12
3918	Pullman, WA	LCS Opera	2	34.7	71.4	70	76.6	1.6	1	14.8	5.77	39.3	140	77.4	230	209	22	9
3919	Pullman, WA	AAC Connect	2	38.5	73.4	74	76.4	1.6	1	16.5	6.56	40.5	200	100.3	98	228	35	18
3920	Pullman, WA	Havener	2	33.2	49.0	90	75.6	n.d.	3	16.6	5.17	31.6	111	58.5	665	147	18	13
3921	Pullman, WA	Lyon	2	36.8	70.8	76	71.9	1.2	1	16.8	5.18	31.6	148	53.1	497	151	23	12
3922	Pullman, WA	X20003-8	2	34.1	79.3	71	75.5	1.3	1	15.6	5.43	35.6	161	61.0	158	155	23	12
3923	Pullman, WA	CONRAD MALT CHECK	2	40.5	98.3	90	84.4	1.7	1	12.1	5.98	53.0	122	98.0	177	232	53	23
3924	Pullman, WA	X20006-29	2	41.2	90.1	74	79.6	1.9	1	15.6	6.80	44.5	162	104.0	56	283	49	26
3925	Pullman, WA	X20007-3	2	39.0	88.2	79	77.7	1.9	1	15.9	6.66	44.3	158	96.2	209	271	31	12
3926	Pullman, WA	X20M114-33	2	35.0	80.4	79	75.7	1.6	1	17.1	6.98	41.1	198	98.0	126	264	29	12
3927	Pullman, WA	X20007-67	2	38.5	83.3	79	77.0	1.5	1	16.5	6.60	40.3	152	86.3	202	241	28	11
3928	Pullman, WA	X20M114-25	2	34.8	81.0	80	73.0	1.3	1	17.6	5.85	34.2	187	69.5	269	211	24	10
3929	Pullman, WA	X20016-55	2	36.7	79.7	71	73.5	1.2	1	15.9	4.97	32.5	151	57.4	362	137	23	8
3930	Pullman, WA	X20M114-57	2	32.7	79.6	79	75.4	1.6	1	16.8	6.98	42.2	195	89.0	138	257	29	12
3931	Pullman, WA	X20024-31	2	34.4	84.5	76	74.3	1.2	1	16.6	6.60	41.2	149	66.0	202	147	21	15
3932	Pullman, WA	X20005-3	2	40.2	82.7	75	77.5	1.4	1	14.8	5.86	39.8	131	71.6	361	198	26	19
3933	Pullman, WA	X20M114-41	2	34.1	69.9	84	72.2	1.2	1	17.2	4.98	29.6	139	55.1	488	142	23	8
3934	Pullman, WA	X20006-33	2	35.4	75.2	77	74.1	1.3	1	17.1	6.57	39.4	122	68.7	321	182	19	15
3935	Pullman, WA	X20029-21	2	39.7	84.9	77	77.1	1.7	1	16.5	6.63	42.6	154	88.7	239	239	28	11
3936	Pullman, WA	X20016-70	2	36.4	83.9	78	75.6	1.3	1	15.7	5.20	33.6	174	62.4	154	142	23	8
3937	Pullman, WA	X20016-27	2	35.6	79.6	82	74.9	1.1	1	15.2	4.79	32.4	129	55.0	392	134	19	8
3938	Pullman, WA	X20005-27	2	38.6	76.5	76	76.3	1.4	1	17.1	6.26	36.8	185	86.8	210	225	23	9
3939	Pullman, WA	X20007-66	2	36.0	78.2	79	75.3	1.5	1	17.6	6.73	38.3	200	100.8	214	251	21	7
3940	Pullman, WA	X20016-69	2	39.3	81.0	76	73.2	1.2	1	16.2	5.02	32.6	165	55.0	182	132	25	10
3941	Pullman, WA	X20007-41	2	37.5	80.8	80	77.1	1.6	1	16.3	6.27	40.4	156	78.2	256	229	26	9
3942	Pullman, WA	X20001-55	2	33.4	76.7	78	74.9	1.3	1	16.1	5.31	33.5	125	68.8	314	172	23	17
3943	Pullman, WA	X20024-23	2	35.1	83.2	77	74.0	1.5	1	15.3	5.12	35.1	133	64.0	272	161	23	12
3944	Pullman, WA	X20016-54	2	31.6	80.0	79	73.4	1.5	2	15.3	5.06	34.7	161	67.1	112	149	25	15
3945	Pullman, WA	X20007-22	2	38.8	83.1	81	75.6	1.5	1	16.1	6.02	39.6	172	86.3	329	214	23	11
3946	Pullman, WA	X20003-13	2	36.5	85.7	73	74.1	1.1	1	16.6	5.13	31.8	194	54.0	162	158	26	15
3947	Pullman, WA	X20001-53	2	33.4	68.2	79	75.5	1.8	1	16.1	6.33	40.1	153	92.3	85	238	33	16
3948	Pullman, WA	X20029-32	2	39.2	82.6	76	76.0	1.4	1	16.1	5.62	36.0	164	76.2	322	190	24	12
3949	Pullman, WA	X20016-22	2	37.3	81.3	76	75.7	1.4	1	16.0	5.67	36.3	183	74.0	151	195	22	13
3950	Pullman, WA	X20006-20	2	38.1	85.8	72	76.6	1.4	1	16.0	5.55	35.9	149	86.6	384	201	31	12
3951	Pullman, WA	X20007-17	2	36.5	77.9	80	76.8	1.5	1	17.4	6.05	36.5	169	95.3	418	213	21	7
3952	Pullman, WA	X20M114-123	2	33.3	81.0	81	76.8	1.4	1	15.7	5.92	39.0	201	80.4	255	217	24	9
3953	Pullman, WA	CONRAD MALT CHECK	2	41.0	98.2	89	84.9	1.6	1	12.2	5.90	51.6	140	101.3	152	233	53	23
3954	Pullman, WA	X20003-22	2	37.2	80.3	75	76.7	1.4	1	16.0	5.54	35.6	187	86.3	187	243	28	7
3955	Pullman, WA	X20007-74	2	39.1	83.4	79	77.0	1.6	1	16.5	6.05	38.6	177	99.0	437	229	23	9
3956	Pullman, WA	X20024-43	2	36.0	80.4	80	73.7	1.3	2	16.0	5.92	37.6	130	61.6	475	146	18	7
3957	Pullman, WA	X20029-5	2	40.8	83.9	78	76.8	1.6	1	15.5	5.88	39.4	130	80.2	239	220	28	13
3958	Pullman, WA	X20M114-66	2	35.5	76.5	79	76.6	1.5	2	15.7	6.15	40.9	147	89.0	418	218	25	8
3959	Pullman, WA	X20001-56	2	37.4	78.7	81	77.6	1.0	1	15.0	4.68	31.4	111	57.1	479	143	16	18
3960	Pullman, WA	X20024-28	2	34.3	83.8	77	75.0	1.2	1	14.9	4.96	34.6	120	64.1	222	162	20	15
3961	Pullman, WA	AC Metcalf	2	36.3	80.6	79	77.1	1.6	1	16.0	6.11	39.1	165	95.1	253	248	21	9
3962	Pullman, WA	CDC Copeland	2	34.0	75.6	79	75.7	1.4	1	16.3	5.96	37.6	168	87.6	154	232	24	7
3964	Pullman, WA	AAC Connect	2	38.4	76.9	74	76.0	1.7	1	16.8	6.22	37.7	195	100.1	182	219	23	9
3966	Pullman, WA	Lyon	2	37.0	76.8	79	73.6	1.1	1	15.3	4.91	32.8	119	53.0	487	154	20	15
3970	Pullman, WA	X20001-71	2	35.0	86.5	81	76.3	1.5	1	15.2	5.97	39.3	126	78.5	310	233	27	12

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Lab No.	Location	Variety or Selection	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agron)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (*ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)	Adjunct Quality Score	All Malt Quality Score
3971	Pullman, WA	X20001-39	2	37.0	85.0	80	77.2	1.6	1	15.4	6.12	40.8	138	89.5	322	241	29	12
3973	Pullman, WA	X20M114-126	2	38.2	83.2	83	76.6	1.3	1	14.0	5.22	37.7	129	65.0	427	152	25	14
3974	Pullman, WA	X20024-16	2	38.1	87.2	85	76.6	1.7	1	11.9	4.39	38.3	90	52.5	236	126	27	17
3975	Pullman, WA	X20001-43	2	38.3	87.1	87	79.3	1.6	1	12.4	5.47	46.8	97	80.8	340	210	43	12
3976	Pullman, WA	X20005-12	2	40.8	86.4	81	78.4	1.8	1	12.8	5.87	47.0	96	78.6	271	233	38	14
3977	Pullman, WA	X20M114-102	2	36.1	77.9	82	75.1	1.2	1	14.6	5.29	37.7	144	66.6	322	154	23	17
3978	Pullman, WA	X20003-35	2	36.6	78.5	76	77.2	1.6	1	13.4	5.84	44.6	141	83.2	85	211	41	14
3979	Pullman, WA	X20M114-40	2	36.7	82.8	85	76.1	1.5	1	14.3	5.83	41.6	142	84.5	189	189	27	12
3980	Pullman, WA	X20M114-34	2	35.7	78.0	83	77.1	1.6	1	14.7	6.57	46.8	125	79.9	140	229	29	7
3981	Pullman, WA	X20007-59	2	36.6	88.0	84	79.5	1.6	1	13.4	6.44	50.8	136	98.0	91	246	43	17
3982	Pullman, WA	X20016-66	2	36.1	87.6	77	76.7	1.2	1	13.7	5.25	40.6	130	66.3	79	153	38	29
3983	Pullman, WA	X20024-5	2	35.0	83.3	79	74.9	n.d.	3	13.3	4.59	35.6	94	51.7	264	118	15	6
3984	Pullman, WA	X20006-10	2	33.0	71.8	81	75.6	1.2	1	13.5	4.77	36.8	96	54.1	353	130	12	11
3985		CONRAD MALT CHECK	2	41.3	98.5	90	83.8	2.0	1	11.7	6.11	55.6	115	94.9	105	220	50	33
3986	Pullman, WA	X20024-18	2	36.5	77.0	78	73.1	1.2	1	15.7	5.27	33.5	128	55.6	116	139	26	11
3987	Pullman, WA	X20M114-67	2	34.4	81.4	83	76.1	1.2	1	15.4	5.49	36.0	149	61.6	219	144	23	8
3988	Pullman, WA	X20006-14	2	38.2	82.5	75	75.9	1.3	1	15.1	5.15	34.4	144	58.7	403	131	25	10
3989	Pullman, WA	X20024-4	2	36.2	80.7	82	76.0	n.d.	3	13.2	4.89	38.5	108	56.0	220	123	23	10
3990	Pullman, WA	X20005-18	2	33.3	68.0	78	77.7	1.9	1	13.2	5.25	40.1	117	100.9	151	240	35	12
3991	Pullman, WA	X20016-16	2	37.9	82.3	80	73.3	1.2	1	14.4	4.76	33.3	109	52.8	261	128	16	12
3992	Pullman, WA	X20016-40	2	34.9	79.3	84	76.5	1.1	1	13.6	5.01	37.9	99	57.5	196	146	16	11
3993	Pullman, WA	X20007-70	2	35.2	71.4	78	75.2	1.7	1	16.6	6.92	43.5	169	101.0	96	248	33	14
3994	Pullman, WA	X20M114-140	2	34.0	77.8	80	72.0	1.2	1	16.4	5.38	33.4	147	71.8	357	157	23	17
3995	Pullman, WA	X20003-5	2	33.9	69.9	79	73.9	1.5	1	15.0	6.03	41.6	152	88.7	156	247	26	9
3996	Pullman, WA	X20024-41	2	34.6	79.3	81	71.8	1.2	1	13.7	4.54	33.8	99	47.2	374	129	9	11
3997	Pullman, WA	X20024-24	2	38.8	78.4	83	73.0	1.1	1	14.3	4.72	33.6	103	52.8	391	140	18	17
3998	Pullman, WA	X20005-16	2	37.7	82.4	72	76.1	1.4	1	12.3	4.81	39.5	107	55.8	486	166	30	21
3999	Pullman, WA	X20006-40	2	40.3	89.5	76	77.9	1.4	1	13.0	4.94	38.4	112	50.9	300	155	37	26
4000	Pullman, WA	X20029-11	2	38.7	77.4	77	78.4	1.5	1	13.0	5.75	44.7	116	94.0	308	245	37	12
4001	Pullman, WA	X20M114-143	2	36.4	79.9	81	76.3	1.2	1	13.6	5.19	38.6	124	66.3	373	183	26	13
4002	Pullman, WA	X20016-23	2	33.7	81.1	81	77.4	1.2	1	12.4	5.07	41.1	142	71.3	92	170	45	26
4003	Pullman, WA	X20016-64	2	35.0	84.6	80	76.1	1.8	1	11.6	4.93	42.9	122	68.2	62	167	45	26
4004	Pullman, WA	X20M114-93	2	34.2	85.3	84	76.0	1.3	1	14.4	5.68	40.7	171	90.4	168	216	32	12
4005	Pullman, WA	X20016-43	2	32.5	69.0	78	74.7	1.1	1	14.9	5.30	36.5	162	70.2	54	173	30	24
4006	Pullman, WA	X20006-41	2	33.1	76.0	78	74.3	1.2	1	14.5	5.03	35.7	125	62.8	320	159	23	12
4007	Pullman, WA	AC Metcalf	2	33.4	78.3	79	76.1	1.4	1	15.6	6.22	41.3	180	103.4	222	240	26	9
4008	Pullman, WA	CDC Copeland	2	32.9	74.3	78	73.4	1.4	1	17.3	6.30	37.4	166	94.8	317	240	21	7
4009	Pullman, WA	LCS Opera	2	34.4	71.4	72	76.1	1.6	1	15.3	6.18	40.7	147	92.8	201	261	26	9
4010	Pullman, WA	AAC Connect	2	38.0	73.3	76	77.1	1.4	1	15.8	6.27	40.6	183	107.9	228	239	28	11
4012	Pullman, WA	Lyon	2	37.9	81.9	80	74.9	1.1	1	14.3	4.84	35.3	115	53.8	573	149	20	11
4013	Pullman, WA	X20M114-26	2	36.5	84.7	83	75.7	1.2	1	15.1	5.20	35.0	162	71.3	366	159	23	17
4014	Pullman, WA	X20003-29	2	37.4	80.5	81	77.1	1.4	1	14.7	6.12	42.3	148	95.0	137	225	29	12
4015	Pullman, WA	X20016-39	2	33.0	79.4	79	76.0	1.2	1	13.3	4.80	37.8	109	61.4	254	139	25	15
4016		CONRAD MALT CHECK	2	40.3	97.5	90	84.6	1.7	1	11.5	5.95	53.6	130	107.6	139	255	56	31
4017	Pullman, WA	X20001-58	2	38.9	90.6	84	78.8	1.2	1	12.8	5.17	40.5	117	87.0	271	170	46	26
4018	Pullman, WA	X20005-5	2	41.5	77.8	79	77.8	1.2	1	13.9	5.09	37.0	120	58.0	390	162	27	16
4019	Pullman, WA	X20029-25	2	35.8	80.9	79	78.2	1.6	1	13.5	5.97	45.3	124	100.3	154	232	33	4
4020	Pullman, WA	X20M114-75	2	35.7	77.9	83	75.4	1.7	1	14.7	6.15	42.5	149	93.4	214	218	26	9
4021	Pullman, WA	X20007-27	2	35.1	75.0	81	77.7	1.5	1	13.8	5.98	44.0	123	101.9	269	235	29	7
4022	Pullman, WA	X20016-10	2	36.3	88.3	82	74.8	2.0	1	14.3	5.26	37.2	154	67.7	79	170	33	27
4023	Pullman, WA	X20016-74	2	37.8	78.4	79	73.2	1.1	1	15.1	4.93	34.4	145	49.5	343	139	20	8
4024	Pullman, WA	X20005-28	2	38.2	79.3	75	77.0	1.3	1	14.5	5.56	40.1	128	70.7	321	190	33	17
4025	Pullman, WA	X20005-29	2	38.3	88.9	74	76.0	1.6	1	14.9	5.96	41.5	131	78.7	253	234	34	14
4026	Pullman, WA	AC Metcalf	2	33.0	75.3	80	76.1	1.6	1	15.7	6.54	42.7	182	101.1	258	261	26	9
4027	Pullman, WA	CDC Copeland	2	34.7	78.5	82	76.7	1.4	1	13.9	6.16	46.3	142	88.1	218	234	26	4
4028	Pullman, WA	LCS Opera	2	35.7	79.7	75	79.7	1.6	1	12.3	5.65	48.0	110	80.6	252	236	38	14
4029	Pullman, WA	AAC Connect	2	40.3	84.8	77	78.6	1.4	1	14.1	6.15	45.5	157	97.3	229	221	34	8
4030	Pullman, WA	Havener	2	37.6	62.2	102	79.6	n.d.	3	14.4	4.83	36.0	77	46.6	719	133	18	9
4031	Pullman, WA	Lyon	2	39.3	81.5	81	75.2	1.1	1	13.6	4.86	37.8	108	47.4	506	137	19	17
4032	Pullman, WA	X20029-16	2	37.1	82.4	76	74.9	1.4	1	14.6	5.41	37.4	118	71.3	429	182	23	16
4033	Pullman, WA	X20005-6	2	39.1	83.9	73	75.6	1.7	1	15.9	6.31	42.1	156	75.9	167	233	28	11
4034	Pullman, WA	X20005-20	2	35.9	82.8	75	74.6	1.5	1	14.7	5.75	41.3	134	80.8	291	214	29	9
4035	Pullman, WA	X20006-7	2	37.5	79.6	82	77.4	1.4	1	13.5	5.41	40.9	134	68.5	243	184	31	15
4036	Pullman, WA	X20003-30	2	34.4	77.8	81	77.5	1.2	1	13.3	5.46	43.6	142	68.9	56	200	43	20
4037	Pullman, WA	X20006-36	2	37.6	87.2	80	74.0	1.2	1	15.0	4.96	33.6	126	42.7	361	143	23	11
4038	Pullman, WA	X20005-26	2	39.6	89.0	77	76.6	1.3	1	14.5	5.94	42.5	146	79.1	229	232	34	14

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Lab No.	Location	Variety or Selection	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agron)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (*ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)	Adjunct Quality Score	All Malt Quality Score
4039	Pullman, WA	X20M114-98	2	35.2	79.8	80	75.3	1.4	1	15.0	5.97	40.8	160	88.9	230	216	29	9
4040	Pullman, WA	X20M114-63	2	34.5	77.8	85	74.8	1.1	1	14.5	5.08	36.4	147	67.2	359	150	23	13
4041	Pullman, WA	X20005-15	2	35.2	83.0	79	76.7	1.5	1	14.2	6.03	43.7	123	91.1	128	253	29	10
4042	Pullman, WA	X20024-44	2	34.3	85.0	79	74.8	1.4	1	13.7	4.45	34.0	99	52.5	300	132	15	21
4043	Pullman, WA	X20003-25	2	34.7	80.7	74	77.3	1.5	1	14.3	6.00	44.3	144	105.8	101	224	29	10
4044	Pullman, WA	X20005-14	2	35.6	64.4	82	77.6	1.5	1	14.2	5.87	42.9	136	101.4	135	219	32	12
4045	Pullman, WA	X20024-32	2	34.5	77.8	82	73.7	1.0	1	14.7	4.98	34.6	114	60.0	361	137	20	15
4046	Pullman, WA	AC Metcalf	2	32.3	69.5	82	76.1	1.6	1	16.2	6.45	40.5	183	115.5	269	244	26	9
4047		CONRAD MALT CHECK	2	41.6	98.3	90	84.6	1.7	1	11.5	5.98	54.5	126	107.8	131	237	56	31
4048	Pullman, WA	CDC Copeland	2	34.4	75.1	83	76.3	1.4	1	15.6	6.26	40.6	150	98.2	253	227	26	9
4049	Pullman, WA	LCS Opera	2	34.1	76.8	75	78.5	1.5	1	13.6	5.61	42.2	113	86.2	256	235	30	16
4050	Pullman, WA	AAC Connect	2	39.1	81.6	77	78.4	1.5	1	14.9	6.22	42.5	158	111.5	181	224	32	11
4052	Pullman, WA	Lyon	2	37.8	77.3	77	73.6	1.1	1	15.2	4.85	31.9	122	53.6	491	153	23	12
4053	Pullman, WA	X20016-11	2	35.2	76.4	79	75.8	1.3	1	15.3	5.41	35.4	128	77.2	313	184	26	10
4054	Pullman, WA	X20024-35	2	33.9	78.4	80	73.5	1.1	1	15.0	4.57	32.2	120	56.1	404	140	19	11
4055	Pullman, WA	X20001-69	2	36.4	87.3	79	77.0	1.4	1	14.5	5.56	38.9	121	84.6	288	215	31	10
4056	Pullman, WA	X20006-31	2	32.3	66.7	81	77.0	1.5	1	15.7	5.98	39.4	144	89.5	179	247	24	9
4057	Pullman, WA	X20029-45	2	39.8	85.3	76	77.0	1.3	1	16.1	6.04	38.7	190	80.7	107	226	29	15
4058	Pullman, WA	X20001-45	2	34.6	75.6	83	76.9	1.2	1	14.4	5.39	39.6	119	77.1	411	197	23	15
4059	Pullman, WA	X20016-7	2	36.3	80.6	76	74.6	1.2	1	13.5	5.05	38.2	168	63.3	92	169	35	19
4060	Pullman, WA	X20029-40	2	34.7	74.8	82	78.6	1.6	1	14.4	6.48	47.4	152	104.3	124	278	28	7
4061	Pullman, WA	X20005-11	2	36.3	78.3	74	76.0	1.4	1	15.0	5.66	38.6	108	80.8	340	213	21	14
4062	Pullman, WA	X20005-8	2	39.2	82.0	77	75.9	1.6	1	14.9	5.91	41.4	140	108.2	149	256	34	14
4063	Pullman, WA	X20006-21	2	37.2	83.8	79	75.4	1.2	1	14.5	4.99	35.3	150	70.6	235	192	26	13
4064	Pullman, WA	X20007-30	2	37.1	81.7	83	75.7	1.4	1	15.3	6.16	40.6	135	81.5	131	240	29	12
4065	Pullman, WA	X20007-31	2	35.8	85.4	79	75.9	1.6	1	16.0	6.73	43.5	199	88.2	124	284	32	13
4066	Pullman, WA	X20005-21	2	35.1	65.1	74	75.1	1.6	1	14.8	6.00	41.8	150	89.9	108	263	29	12
4067	Pullman, WA	X20001-68	2	34.6	79.1	82	76.4	1.2	1	15.0	5.14	35.6	141	75.6	370	167	23	14
4068	Pullman, WA	X20029-15	2	37.4	79.7	78	76.2	1.6	1	14.6	5.95	43.8	154	90.5	190	230	29	7
4069	Pullman, WA	AC Metcalf	2	31.4	70.2	80	74.3	1.8	1	16.5	6.37	39.7	171	101.4	214	256	21	9
4070	Pullman, WA	CDC Copeland	2	33.6	78.3	78	74.7	1.4	1	14.9	6.09	41.4	163	94.0	156	233	26	9
4071	Pullman, WA	LCS Opera	2	35.7	83.4	71	73.7	1.2	1	16.6	5.44	33.8	192	65.9	304	175	23	17
4072	Pullman, WA	AAC Connect	2	33.4	77.8	80	71.9	1.2	1	16.8	5.32	32.0	214	75.1	211	169	23	14
4074	Pullman, WA	Lyon	2	36.5	73.4	80	73.1	1.0	1	14.7	4.86	34.9	134	54.3	522	150	23	8
4075	Pullman, WA	X20M114-115	2	32.8	70.6	81	75.5	1.5	1	15.4	6.23	42.4	205	97.2	144	255	29	12
4076	Pullman, WA	X20029-35	2	32.0	70.2	78	74.4	1.1	1	13.3	5.05	39.4	153	66.5	189	168	28	19
4077	Pullman, WA	X20016-8	2	32.8	73.0	78	72.8	1.5	1	15.1	5.14	35.4	156	71.7	182	158	23	17
4078		CONRAD MALT CHECK	2	40.8	98.3	89	83.7	1.8	1	11.6	5.94	55.0	118	101.8	80	263	57	33
4079	Pullman, WA	X20005-13	2	37.5	84.1	73	77.3	1.7	1	14.6	6.28	44.7	130	94.1	266	276	26	7
4080	Pullman, WA	X20003-31	2	38.0	81.2	73	75.2	1.5	1	15.6	5.96	39.5	171	80.3	331	227	26	11
4081	Pullman, WA	X20016-35	2	35.7	83.4	83	76.2	n.d.	3	13.8	5.17	39.5	139	66.7	226	174	21	17
4082	Pullman, WA	X20M114-132	2	35.3	83.5	84	75.7	1.3	1	14.3	5.22	36.9	181	77.8	192	174	23	14
4083	Pullman, WA	X20016-25	2	34.4	74.9	74	74.8	n.d.	3	13.8	4.92	37.6	124	65.0	226	141	21	6
4084	Pullman, WA	X20024-29	2	32.0	76.5	82	73.8	n.d.	3	13.9	4.60	33.4	110	57.6	376	109	14	13
4085	Pullman, WA	X20029-13	2	34.2	75.4	73	77.3	2.1	1	14.4	5.66	40.6	122	78.9	291	202	27	9
4086	Pullman, WA	X20001-25	2	33.7	82.6	80	76.9	1.7	1	14.7	5.97	43.1	137	108.0	314	216	29	7
4087	Pullman, WA	X20007-73	2	37.6	83.8	85	77.7	1.7	1	14.4	6.01	42.5	132	87.9	281	219	26	9
4088	Pullman, WA	X20003-26	2	36.6	85.8	80	75.3	1.4	1	14.9	4.98	34.7	154	51.3	318	144	26	11
4089	Pullman, WA	X20001-4	2	34.3	81.5	83	78.5	1.6	1	13.7	5.74	44.5	122	88.8	312	211	33	7
4090	Pullman, WA	X20001-5	2	36.1	80.3	80	75.7	1.3	1	14.9	5.17	34.9	119	63.0	432	169	20	15
4091	Pullman, WA	X20007-48	2	32.9	77.2	81	76.2	1.9	1	14.9	6.04	41.5	126	103.1	321	237	26	9
4092	Pullman, WA	X20024-2	2	36.6	86.9	79	74.1	1.1	1	16.9	4.89	29.8	143	54.2	233	136	26	11
4093	Pullman, WA	X20016-18	2	32.5	77.3	88	76.2	1.4	2	13.8	4.95	38.0	107	62.2	340	154	19	18
4094	Pullman, WA	X20007-53	2	35.5	82.2	81	79.3	1.7	1	15.5	6.24	42.6	166	95.5	287	247	30	9
4095	Pullman, WA	X20001-10	2	35.4	75.3	87	79.5	1.3	1	13.3	4.87	37.5	114	63.2	475	148	32	15
4096	Pullman, WA	X20016-9	2	38.5	84.9	79	74.5	1.2	1	14.5	5.08	35.6	129	60.4	254	147	25	10
4097	Pullman, WA	X20M114-30	2	33.6	80.9	85	76.3	1.9	2	14.5	5.80	42.9	118	77.9	388	221	25	11
4098	Pullman, WA	X20003-34	2	37.0	83.2	81	76.9	1.6	1	15.2	5.99	40.2	149	82.1	280	223	29	9
4099	Pullman, WA	X20016-13	2	35.8	83.5	78	76.4	2.9	2	14.3	5.44	39.3	136	72.0	158	181	25	14
4100	Pullman, WA	X20005-24	2	35.9	78.3	78	75.5	1.5	1	14.0	5.20	37.9	110	60.7	315	161	20	19
4101	Pullman, WA	X20001-20	2	38.3	84.2	85	79.0	1.2	1	13.9	5.18	38.9	110	67.4	366	162	26	26
4102	Pullman, WA	X20005-30	2	33.5	72.2	81	75.2	1.6	1	16.7	6.30	39.0	189	108.9	266	216	21	7
4103	Pullman, WA	X20007-32	2	35.0	72.1	81	75.2	1.7	1	16.6	6.20	37.4	133	104.9	322	238	21	7
4104	Pullman, WA	AC Metcalf	2	34.4	81.9	81	76.1	2.0	1	15.8	6.64	44.5	159	106.5	132	259	29	10
4105	Pullman, WA	CDC Copeland	2	34.0	80.2	80	75.6	1.6	1	15.0	6.27	41.3	143	93.6	185	241	26	9
4106	Pullman, WA	LCS Opera	2	35.2	77.3	72	76.3	1.7	1	14.2	5.77	41.5	127	79.3	191	236	29	9

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Lab No.	Location	Variety or Selection	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agron)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (*ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)	Adjunct Quality Score	All Malt Quality Score
4107	Pullman, WA	AAC Connect	2	38.7	78.7	75	77.3	1.6	1	14.8	6.12	42.9	180	109.7	176	215	28	11
4109		CONRAD MALT CHECK	2	41.5	98.4	89	84.3	2.4	1	11.0	6.24	60.0	114	109.9	102	273	50	38
4110	Pullman, WA	Lyon	2	37.0	74.7	79	74.0	1.4	1	14.3	4.86	34.8	112	53.6	537	153	20	19
4111	Pullman, WA	X20001-24	2	34.6	73.8	82	76.8	1.4	1	14.6	5.20	35.8	137	66.9	385	166	23	17
4112	Pullman, WA	X20016-31	2	38.5	82.3	78	75.1	1.2	1	14.0	4.92	36.3	140	60.5	211	154	25	14
4113	Pullman, WA	X20001-13	2	34.6	72.6	81	75.7	1.3	1	14.9	5.38	36.1	115	73.3	305	183	23	20
4114	Pullman, WA	X20003-37	2	35.9	69.8	78	74.9	1.7	1	15.7	5.26	34.6	154	58.4	330	159	23	12
4115	Pullman, WA	X20001-8	2	36.3	80.5	83	78.5	1.6	1	14.1	5.70	40.8	109	76.1	380	208	28	16
4116	Pullman, WA	X20006-11	2	36.8	78.9	79	76.7	1.4	1	14.3	5.49	38.7	153	91.9	80	183	33	17
4117	Pullman, WA	AC Metcalf	2	31.9	68.5	80	74.3	1.8	1	17.2	6.84	40.3	206	111.6	224	248	26	9
4118	Pullman, WA	CDC Copeland	2	31.0	60.6	80	73.4	1.4	1	16.8	6.54	39.5	200	97.3	238	220	21	9
4119	Pullman, WA	LCS Opera	2	32.5	65.9	71	76.3	1.9	1	14.3	5.89	42.4	135	82.7	337	204	27	9
4120	Pullman, WA	AAC Connect	2	37.3	70.6	75	76.1	2.1	1	17.2	7.45	44.8	217	128.4	24	258	33	14
4122	Pullman, WA	Lyon	2	36.7	72.0	79	73.3	1.2	1	15.4	5.18	34.0	137	60.0	472	143	23	8
4123	Pullman, WA	Wintmalt	2	43.5	97.6	65	80.7	1.6	1	11.5	5.12	45.8	165	69.6	70	159	62	36
4124	Pullman, WA	Thunder	2	40.4	96.3	62	80.6	1.8	1	13.0	6.44	53.4	218	108.1	49	235	54	25
4125	Pullman, WA	DH141364	2	45.7	98.3	50	80.7	1.8	1	12.5	6.09	52.1	226	76.1	29	211	55	26
4126	Pullman, WA	DH170826	2	48.0	98.4	52	80.1	1.8	1	12.8	5.46	44.0	224	53.0	55	158	62	34
4127	Pullman, WA	DH162310	2	49.0	97.6	52	81.5	2.1	1	13.8	6.62	49.4	231	106.8	32	256	48	26
4128	Pullman, WA	DH161619	2	47.0	98.0	52	80.7	1.6	1	12.6	5.24	44.3	197	75.1	141	151	58	32
4129	Pullman, WA	AC Metcalf	2	35.4	83.4	76	76.2	1.9	1	16.7	6.66	41.0	190	110.6	143	240	29	12
4130	Pullman, WA	CDC Copeland	2	38.5	88.9	78	78.1	1.3	1	14.5	6.06	44.2	162	96.8	232	203	33	12
4131	Pullman, WA	20WAM-248.1	2	35.7	85.8	79	76.0	1.6	1	15.1	6.85	46.3	193	96.9	80	247	36	14
4132	Pullman, WA	20WAM-487.1	2	41.4	95.3	74	79.3	1.8	1	14.9	6.57	46.2	146	96.4	98	245	46	20
4133	Pullman, WA	20WAM-721.1	2	36.4	95.1	77	76.5	1.1	1	15.0	5.69	39.8	125	79.8	291	186	27	17
4134	Pullman, WA	20WAM-783.1	2	38.7	88.4	80	76.4	1.4	1	15.3	5.90	40.9	142	76.2	255	193	32	17
4135	Latham, MI	G230032	2	37.5	98.7	65	79.7	1.6	2	10.3	4.70	48.8	110	53.8	480	142	32	32
4136	Latham, MI	G230034	2	44.2	99.0	60	80.9	1.8	2	10.2	4.89	52.9	107	53.4	51	152	48	47
4137	Latham, MI	G230035	2	40.3	99.2	66	81.2	1.9	1	8.3	4.96	62.9	60	48.2	138	166	40	31
4138	Latham, MI	G230036	2	47.4	99.0	61	81.0	1.6	1	10.0	4.88	49.7	125	51.3	61	150	52	41
4139	Latham, MI	G230037	2	48.2	99.3	65	80.7	1.7	1	10.4	4.89	49.3	129	46.5	52	147	49	37
4140		CONRAD MALT CHECK	2	40.4	98.6	90	84.5	2.1	1	11.5	6.06	56.7	109	94.9	202	233	47	35
4141	Latham, MI	G230041	2	49.4	99.7	57	81.8	1.9	1	11.0	5.30	51.3	142	62.3	35	195	58	37
4142	Latham, MI	G230042	2	50.1	99.8	53	79.5	1.9	2	11.2	5.08	47.5	129	52.7	113	159	52	26
4143	Latham, MI	G230043	2	49.4	99.4	59	81.3	n.d.	3	10.2	4.73	49.2	121	43.6	50	125	46	32
4144	Latham, MI	G230044	2	36.2	96.4	57	79.8	n.d.	3	9.5	4.53	52.1	109	41.3	288	131	28	26
4145	Latham, MI	G230045	2	50.7	99.3	59	80.8	n.d.	3	11.2	4.92	46.8	129	45.4	62	143	57	30
4146	Latham, MI	G230046	2	43.2	99.2	54	79.7	1.8	1	10.4	4.85	50.2	133	50.5	210	150	45	28
4147	Latham, MI	G230047	2	41.3	99.3	65	80.5	1.8	1	8.9	4.89	58.5	108	60.7	241	161	41	35
4148	Latham, MI	G230048	2	48.9	99.8	60	82.2	2.0	2	10.2	4.99	53.8	146	43.4	21	159	51	45
4149	Latham, MI	G230049	2	50.1	99.7	59	82.3	2.0	2	10.4	5.15	53.3	147	39.6	22	157	47	45
4150	Latham, MI	G230050	2	49.6	99.5	57	82.3	1.8	1	10.5	5.29	53.5	122	45.2	25	180	52	41
4151	Latham, MI	G230051	2	40.5	98.5	60	80.3	1.9	2	9.8	4.71	53.3	122	55.3	396	142	39	28
4152	Latham, MI	G230052	2	43.5	99.0	64	79.8	1.8	1	9.9	5.23	55.4	97	64.4	94	191	48	38
4153	Latham, MI	G230053	2	41.0	99.0	66	81.7	1.7	1	9.9	5.25	56.0	131	61.2	116	177	50	41
4154	Latham, MI	G230054	2	42.3	99.5	60	80.6	1.7	2	10.0	5.04	53.4	125	48.8	248	160	41	33
4155	Latham, MI	G230055	2	46.1	99.4	64	78.7	n.d.	3	11.7	5.38	49.7	137	54.4	348	131	45	13
4156	Latham, MI	G230056	2	46.8	98.5	62	79.6	n.d.	3	10.3	4.86	50.5	131	54.6	47	134	50	33
4157	Latham, MI	G230057	2	43.7	97.6	66	79.3	n.d.	3	10.6	4.73	46.9	121	46.9	26	115	45	22
4158	Latham, MI	G230058	2	42.4	92.5	70	80.5	n.d.	3	11.3	5.08	48.4	155	45.1	276	138	45	23
4159	Latham, MI	G230059	2	37.1	97.9	65	81.2	n.d.	3	11.0	5.79	55.2	127	68.3	184	203	40	20
4160	Latham, MI	G230060	2	46.3	99.8	63	78.8	1.7	1	11.8	6.04	53.2	100	72.4	366	216	42	24
4161	Latham, MI	G230061	2	35.8	93.7	47	75.6	n.d.	3	12.1	5.11	43.5	61	49.9	588	147	31	11
4162	Latham, MI	G230062	2	33.6	68.3	73	87.0	n.d.	3	10.6	4.92	47.9	73	57.9	445	138	29	18
4163	Latham, MI	G230063	2	53.8	99.0	58	81.7	1.7	2	10.4	4.97	50.7	161	50.2	32	149	54	41
4164	Latham, MI	G230064	2	43.4	99.1	67	81.1	1.5	1	9.7	5.19	54.5	121	47.0	99	162	52	36
4165	Latham, MI	G230065	2	36.0	96.4	48	77.5	n.d.	3	11.3	5.30	48.4	68	47.6	597	185	29	13
4166	Latham, MI	G230066	2	37.6	87.0	49	84.3	n.d.	3	11.5	4.58	43.7	70	52.3	425	101	38	24
4167	Latham, MI	G230067	2	35.2	86.6	49	75.3	n.d.	3	12.0	4.96	44.7	93	41.0	608	149	29	9
4168	Latham, MI	G230068	2	50.5	99.3	65	80.5	1.5	1	11.5	5.22	47.9	121	50.3	339	129	50	22
4169	Latham, MI	G230069	2	47.5	98.9	61	81.8	1.7	1	10.6	5.31	54.5	159	51.5	26	179	55	41
4170	Latham, MI	G230070	2	48.8	98.9	67	82.0	1.7	2	9.0	4.64	52.2	134	43.8	25	134	47	39
4171		CONRAD MALT CHECK	2	40.7	98.0	88	85.4	2.0	1	11.6	5.90	52.5	117	96.5	117	209	51	29
4172	Latham, MI	G230071	2	48.9	99.5	60	80.4	1.9	2	10.9	4.99	49.4	169	57.5	38	159	51	35
4173	Latham, MI	G230072	2	48.2	99.1	58	82.4	1.6	1	11.0	5.23	48.7	167	63.9	29	162	55	41
4174	Latham, MI	G230074	2	33.6	52.7	52	77.3	1.8	1	13.5	6.03	48.1	146	89.2	44	201	31	11

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Lab No.	Location	Variety or Selection	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agrton)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (*ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)	Adjunct Quality Score	All Malt Quality Score
4175	Latham, MI	G230075	2	36.8	91.6	57	79.9	1.6	1	11.9	5.83	51.6	125	98.6	55	198	51	22
4176	Latham, MI	G230076	2	32.6	77.0	50	77.2	2.0	1	12.4	5.77	48.2	128	100.7	42	205	39	11
4177	Latham, MI	G230077	2	33.7	81.9	53	79.4	2.1	1	12.6	6.31	53.5	125	104.9	106	219	38	7
4178	Latham, MI	G230078	2	31.5	51.7	55	76.5	1.9	1	14.5	6.57	45.6	157	100.2	126	218	29	7
4179	Latham, MI	G230079	2	34.4	71.0	57	79.4	2.3	1	13.3	6.75	51.5	147	108.2	60	232	37	11
4180	Latham, MI	G230081	2	33.8	84.9	54	80.1	1.9	1	12.1	5.49	47.2	138	87.5	19	181	50	19
4181	Latham, MI	G230082	2	31.0	83.0	51	77.8	1.9	2	12.2	5.45	48.6	126	83.0	25	170	39	17
4182	Latham, MI	G230083	2	31.3	83.4	47	78.0	2.0	1	13.1	5.98	46.3	126	91.2	64	200	39	11
4183	Latham, MI	G230084	2	34.6	63.8	53	78.5	1.8	1	12.4	6.75	56.9	115	79.4	29	182	37	17
4184	Latham, MI	G230085	2	35.8	87.4	50	78.0	2.0	1	11.8	5.46	46.2	111	76.3	253	165	38	21
4185	Latham, MI	G230086	2	37.1	92.4	49	77.5	1.6	1	12.5	5.44	44.7	107	64.4	368	160	40	24
4186	Latham, MI	G230087	2	37.4	92.4	58	78.9	1.6	1	12.2	5.94	51.2	116	81.4	92	170	42	26
4187	Latham, MI	G230088	2	38.4	94.6	57	79.1	1.6	2	11.8	5.64	49.3	112	66.8	134	146	39	26
4188	Latham, MI	G230089	2	41.1	96.2	53	79.2	1.4	1	11.4	5.43	49.7	111	66.5	97	165	50	42
4189	Latham, MI	G230090	2	37.1	83.2	57	79.7	1.8	1	12.3	6.31	53.7	118	89.2	86	247	42	17
4190	Latham, MI	G230091	2	39.5	92.1	57	80.1	1.7	1	12.3	6.06	51.0	121	91.5	87	239	52	23
4191	Latham, MI	G230092	2	36.0	91.8	56	78.6	1.6	1	11.8	5.74	50.5	118	77.6	100	226	43	15
4192	Latham, MI	G230093	2	32.9	78.4	50	76.0	1.8	1	12.3	5.45	47.5	95	78.2	55	184	36	14
4193	Latham, MI	G230094	2	37.3	93.7	51	79.2	1.8	1	12.4	5.71	48.4	117	78.4	91	187	45	22
4194	Latham, MI	G230095	2	32.5	86.7	51	77.5	2.0	1	12.5	5.96	48.2	135	71.1	35	214	44	17
4195	Latham, MI	G230096	2	34.8	89.4	51	78.4	2.0	1	12.5	5.76	48.0	139	84.2	104	204	42	10
4196	Latham, MI	G230097	2	34.8	85.9	53	76.2	1.6	1	13.7	6.00	46.5	139	81.0	273	195	27	10
4197	Latham, MI	G230098	2	37.6	87.0	53	78.0	1.8	1	13.2	5.70	46.3	126	74.1	157	195	35	13
4198	Latham, MI	G230099	2	31.7	71.8	59	77.9	1.8	1	12.3	5.99	51.0	158	78.5	234	231	34	4
4199	Latham, MI	G230101	2	32.6	82.6	39	78.1	1.7	1	14.3	6.16	46.1	173	77.3	85	210	35	11
4200	Latham, MI	G230102	2	32.6	87.2	50	78.1	1.8	1	14.1	5.71	40.8	119	76.2	179	200	31	15
4201	Latham, MI	G230103	2	32.1	68.9	60	77.2	2.5	2	12.5	5.66	45.6	165	71.9	167	210	38	6
4202	Latham, MI	CONRAD MALT CHECK	2	40.8	98.4	90	84.3	2.0	1	12.1	5.99	52.7	115	94.6	94	274	57	33
4203	Latham, MI	G230104	2	42.6	96.4	50	80.8	2.3	1	11.3	6.16	56.5	126	83.6	18	236	55	31
4204	Latham, MI	G230105	2	42.3	97.6	52	81.6	2.2	1	11.2	5.71	55.6	107	88.9	44	258	58	43
4205	Latham, MI	G230106	2	42.4	97.6	47	81.3	3.0	1	10.8	5.66	55.7	111	87.9	24	228	53	38
4206	Latham, MI	G230107	2	39.6	95.2	53	80.6	2.6	1	11.4	6.52	59.5	113	107.1	41	266	49	35
4207	Latham, MI	G230108	2	37.8	93.4	56	80.3	2.1	1	11.6	6.33	56.1	124	104.0	30	271	50	21
4208	Latham, MI	G230109	2	39.8	94.8	52	81.0	2.4	1	12.3	6.64	56.0	137	108.9	75	297	55	23
4209	Latham, MI	G230111	2	40.9	96.9	49	81.7	2.3	1	10.2	5.29	57.4	121	87.1	12	219	59	40
4210	Latham, MI	G230112	2	41.0	98.7	50	81.8	n.d.	3	9.8	5.09	56.4	116	77.9	13	208	52	36
4211	Latham, MI	G230113	2	44.9	99.0	45	81.9	2.5	1	10.2	5.70	57.4	112	85.3	51	230	53	48
4212	Latham, MI	G230114	2	43.0	97.2	49	80.8	1.9	1	10.7	5.30	53.6	115	82.2	14	203	52	38
4213	Latham, MI	G230115	2	43.1	98.2	52	80.4	2.0	1	11.2	5.74	55.2	121	97.7	104	222	54	27
4214	Latham, MI	G230116	2	42.0	96.4	53	80.5	2.1	2	10.7	5.30	52.2	103	68.0	231	190	44	36
4215	Latham, MI	G230117	2	40.7	96.8	48	81.2	1.9	1	11.0	5.84	55.4	105	92.5	55	242	57	37
4216	Latham, MI	G230118	2	43.5	99.0	50	81.2	1.7	1	11.3	5.25	49.3	104	81.2	72	191	60	41
4217	Latham, MI	G230119	2	50.7	99.5	50	81.4	1.8	1	10.4	5.02	50.9	105	67.2	33	195	55	49
4218	Latham, MI	G230120	2	42.0	96.6	53	82.1	1.9	1	10.7	5.55	56.4	94	80.4	94	247	53	36
4219	Latham, MI	G230121	2	43.5	96.8	49	82.5	2.0	1	11.0	5.63	54.9	106	90.1	86	253	53	43
4220	Latham, MI	G230122	2	40.9	97.8	54	80.5	1.7	1	10.6	5.26	51.9	108	86.5	78	236	53	37
4221	Latham, MI	G230123	2	43.1	97.3	49	79.4	1.8	1	10.5	4.96	50.9	101	100.5	16	199	49	36
4222	Latham, MI	G230124	2	46.3	98.8	49	81.9	1.9	1	10.8	5.51	54.8	128	92.5	23	224	60	36
4223	Latham, MI	G230125	2	44.4	99.1	46	81.2	2.3	1	10.4	5.54	56.8	119	90.5	11	234	57	39
4224	Latham, MI	G230126	2	46.2	99.2	51	81.6	1.8	1	10.7	5.47	54.1	129	91.5	19	222	60	36
4225	Latham, MI	G230127	2	43.8	96.1	53	79.7	1.5	1	12.3	6.04	52.7	145	93.4	74	228	55	24
4226	Latham, MI	G230128	2	42.5	97.1	47	80.8	1.6	1	11.7	5.65	52.9	137	85.9	60	190	56	29
4227	Latham, MI	G230129	2	34.5	89.6	55	79.4	1.6	1	11.5	5.93	54.9	185	94.5	144	217	47	10
4228	Latham, MI	G230130	2	33.3	91.3	55	75.0	1.5	1	12.0	4.93	44.5	135	44.1	481	150	40	17
4229	Latham, MI	G230131	2	40.3	92.1	43	80.5	2.2	1	12.0	5.79	51.4	153	79.8	79	197	55	28
4230	Latham, MI	G230133	2	35.0	92.8	54	79.4	1.6	1	11.7	5.98	52.8	191	86.8	105	214	46	12
4231	Latham, MI	CONRAD MALT CHECK	2	41.1	98.6	90	84.3	1.8	1	11.9	6.14	56.1	126	102.0	97	238	57	30
4232	Aberdeen, ID	GemCraft	2	43.5	95.9	79	79.7	1.5	1	14.0	5.98	45.8	159	89.4	272	208	44	17
4233	Aberdeen, ID	GemCraft	2	46.1	98.8	85	81.9	1.7	1	11.5	5.66	51.3	117	86.0	249	205	49	32
4234	Aberdeen, ID	GemCraft	2	46.7	98.9	81	82.4	1.6	1	10.3	5.52	56.4	108	85.6	152	200	48	44
4235	Aberdeen, ID	GemCraft	2	46.9	99.1	81	81.7	1.6	1	12.7	5.67	46.7	126	87.7	292	209	57	24
4236	Aberdeen, ID	GemCraft	2	48.3	99.0	85	81.3	1.7	1	11.8	5.79	51.6	122	84.3	163	222	54	19
4237	Aberdeen, ID	GemCraft	2	47.4	99.2	84	82.0	1.7	1	10.8	5.61	54.1	100	82.2	158	210	42	32
4238	Aberdeen, ID	GemCraft	2	41.4	98.5	70	79.1	1.8	1	15.5	6.53	43.5	156	93.0	249	260	39	16
4239	Aberdeen, ID	GemCraft	2	42.5	97.9	82	79.9	1.6	1	14.1	5.98	45.6	139	90.9	235	239	46	17
4240	Aberdeen, ID	GemCraft	2	41.1	96.6	72	78.4	1.8	1	15.6	6.57	43.6	149	92.9	244	266	39	16

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Lab No.	Location	Variety or Selection	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agrton)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (*ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)	Adjunct Quality Score	All Malt Quality Score
4241	Aberdeen, ID	GemCraft	2	43.8	99.1	76	82.0	1.8	1	9.9	5.53	59.1	96	87.7	217	227	46	37
4242	Aberdeen, ID	GemCraft	2	44.7	99.0	84	83.3	1.7	1	8.2	5.03	67.3	81	84.3	71	199	51	39
4243	Aberdeen, ID	GemCraft	2	46.0	99.2	86	83.6	1.7	1	8.5	5.07	64.4	82	85.1	145	205	47	32
4244	Aberdeen, ID	GemCraft	2	42.1	95.4	67	81.3	1.9	1	12.0	5.82	52.2	129	96.1	144	251	57	22
4245	Aberdeen, ID	GemCraft	2	45.9	99.8	80	83.4	1.7	1	9.3	5.21	60.2	95	84.9	106	215	49	35
4246	Aberdeen, ID	GemCraft	2	46.7	99.2	84	82.9	1.7	1	10.0	5.27	55.9	98	82.7	201	204	44	37
4247	Aberdeen, ID	GemCraft	2	45.5	98.9	85	82.7	1.6	1	10.2	5.25	55.6	101	83.9	146	213	53	44
4248	Aberdeen, ID	GemCraft	2	43.6	99.4	88	83.4	1.7	1	8.5	5.03	66.2	79	82.2	97	205	51	36
4249	Aberdeen, ID	GemCraft	2	43.0	99.5	87	83.1	1.6	1	7.9	4.80	64.8	73	83.0	81	187	51	39
4250	Aberdeen, ID	GemCraft	2	45.4	97.0	78	80.2	1.7	1	13.5	5.90	47.2	119	80.7	304	241	43	22
4251	Aberdeen, ID	GemCraft	2	42.1	95.7	74	79.5	1.7	1	13.5	5.99	47.9	131	84.9	205	254	46	17
4252	Aberdeen, ID	GemCraft	2	45.7	99.0	88	82.6	1.7	1	8.9	5.06	61.3	84	81.6	110	186	47	35
4253	Aberdeen, ID	GemCraft	2	44.6	97.3	78	82.0	1.6	1	10.8	5.38	53.7	105	81.3	196	224	50	36
4254	Aberdeen, ID	GemCraft	2	45.0	98.6	84	83.5	1.7	1	9.5	5.10	57.7	81	79.9	127	187	47	35
4255	Aberdeen, ID	GemCraft	2	40.8	98.7	77	83.5	1.7	1	8.3	4.84	64.7	71	84.3	169	201	43	28
4256	Aberdeen, ID	GemCraft	2	39.7	97.2	62	81.9	2.0	1	12.4	6.20	52.0	143	92.6	157	293	48	21
4257	Aberdeen, ID	GemCraft	2	39.5	96.5	58	81.1	2.3	1	13.2	6.58	51.7	153	95.1	136	309	46	19
4258	Aberdeen, ID	GemCraft	2	38.9	98.0	58	82.2	2.0	1	10.4	5.63	54.9	116	89.7	96	258	50	41
4259	Aberdeen, ID	GemCraft	2	38.5	97.5	55	81.0	2.2	1	10.6	5.81	56.7	120	91.7	129	207	44	24
4260	Aberdeen, ID	GemCraft	2	39.1	97.5	65	81.4	1.9	1	11.1	5.86	57.9	125	92.9	201	219	51	21
4261	Aberdeen, ID	GemCraft	2	36.6	97.4	62	78.8	2.1	1	14.9	6.94	48.0	164	96.1	293	271	30	9
4262	Aberdeen, ID	CONRAD MALT CHECK	2	40.9	98.0	89	84.5	1.8	1	11.8	6.15	55.2	124	96.6	196	223	50	23
4263	Aberdeen, ID	GemCraft	2	38.7	98.2	64	79.7	2.1	1	14.1	6.68	49.5	149	96.4	194	263	35	14
4264	Aberdeen, ID	GemCraft	2	37.6	97.3	65	80.2	2.1	1	13.2	6.61	52.6	130	92.2	249	248	38	14
4265	Aberdeen, ID	GemCraft	2	35.2	96.4	61	77.4	2.2	1	16.9	7.24	45.2	169	100.3	456	262	31	9
4266	Aberdeen, ID	GemCraft	2	33.6	91.2	62	77.9	2.1	1	16.0	6.95	45.2	165	96.7	262	249	31	9
4267	Aberdeen, ID	GemCraft	2	33.7	88.3	59	78.0	2.2	1	15.1	7.18	48.9	158	100.1	167	279	28	7
4268	Aberdeen, ID	GemCraft	2	36.9	95.8	59	78.9	1.9	1	15.2	6.89	47.9	180	100.3	257	249	30	9
4269	Aberdeen, ID	GemCraft	2	40.5	97.6	59	78.7	1.9	1	15.0	6.96	47.3	184	100.4	267	270	34	13
4270	Aberdeen, ID	GemCraft	2	37.3	96.1	59	77.8	1.9	1	16.2	7.13	46.6	183	100.3	305	265	31	9
4271	Aberdeen, ID	GemCraft	2	38.5	98.2	58	80.4	1.9	1	13.7	6.49	50.9	155	96.0	266	237	35	16
4272	Aberdeen, ID	GemCraft	2	38.0	98.6	60	80.7	1.9	1	12.6	6.18	52.1	139	91.9	194	223	45	16
4273	Aberdeen, ID	GemCraft	2	40.2	98.4	62	82.9	1.8	1	9.3	5.34	59.4	102	90.5	171	186	47	38
4274	Aberdeen, ID	GemCraft	2	39.7	98.5	63	83.1	1.8	1	9.6	5.41	62.5	95	87.4	208	195	41	32
4275	Aberdeen, ID	GemCraft	2	36.6	97.1	67	82.2	1.7	1	8.6	5.05	63.3	86	89.6	74	178	43	38
4276	Aberdeen, ID	GemCraft	2	34.7	96.8	64	82.6	2.1	2	8.2	5.06	66.7	157	98.8	50	181	52	33
4277	Aberdeen, ID	GemCraft	2	37.7	98.0	66	82.7	2.0	1	8.2	5.06	68.2	180	100.3	57	218	55	31
4278	Aberdeen, ID	GemCraft	2	38.5	97.8	65	82.5	1.9	1	8.3	5.24	67.7	184	100.8	113	232	53	29
4279	Aberdeen, ID	GemCraft	2	40.3	98.1	60	82.7	2.0	1	9.0	5.29	62.0	96	95.7	82	227	52	38
4280	Aberdeen, ID	GemCraft	2	42.1	98.0	63	82.6	2.2	1	9.5	5.72	61.5	118	104.2	47	249	53	39
4281	Aberdeen, ID	GemCraft	2	39.9	97.8	61	83.1	1.8	1	9.1	5.20	61.2	97	98.1	83	218	50	36
4282	Aberdeen, ID	GemCraft	2	37.6	97.6	65	82.6	2.2	1	9.0	5.26	64.9	83	103.0	43	221	48	31
4283	Aberdeen, ID	GemCraft	2	37.4	97.8	64	82.5	2.2	1	7.4	5.11	74.5	77	99.1	34	213	48	31
4284	Aberdeen, ID	GemCraft	2	38.9	98.9	67	82.4	1.8	1	9.5	5.26	61.1	95	100.2	80	217	50	33
4285	Aberdeen, ID	GemCraft	2	38.3	98.6	64	81.6	2.0	1	11.0	5.74	57.2	105	99.9	75	253	50	40
4286	Aberdeen, ID	GemCraft	2	38.3	98.0	63	79.8	1.9	1	13.6	6.69	49.6	153	110.6	229	317	35	14
4287	Aberdeen, ID	GemCraft	2	37.0	97.9	67	82.3	1.8	1	9.1	5.48	64.1	97	97.6	95	252	48	34
4288	Aberdeen, ID	GemCraft	2	37.5	98.0	66	81.0	1.8	1	11.3	5.90	54.6	108	104.6	148	274	49	29
4289	Aberdeen, ID	GemCraft	2	36.4	97.9	62	81.1	2.1	1	11.7	6.01	54.0	112	107.5	117	292	46	24
4290	Aberdeen, ID	GemCraft	2	40.5	95.3	59	80.0	2.4	1	14.2	6.63	49.2	129	100.1	160	318	37	18
4291	Aberdeen, ID	GemCraft	2	38.4	94.4	59	79.5	2.2	1	14.7	6.77	47.4	144	109.4	115	330	38	14
4292	Aberdeen, ID	GemCraft	2	37.8	95.9	57	80.6	2.0	1	13.3	6.26	48.5	145	109.1	91	297	45	21
4293	Aberdeen, ID	CONRAD MALT CHECK	2	41.1	98.5	89	84.5	1.6	1	11.5	5.86	53.4	126	111.1	91	266	60	30
4294	Aberdeen, ID	GemCraft	2	39.7	97.6	63	82.2	2.0	1	11.2	5.81	55.6	114	101.2	101	265	51	36
4295	Aberdeen, ID	GemCraft	2	36.6	96.2	58	80.9	2.1	1	11.9	6.05	54.5	124	104.4	86	248	50	21
4296	Aberdeen, ID	GemCraft	2	37.1	96.5	60	81.4	2.2	1	10.8	5.93	57.1	125	95.9	93	238	51	26
4297	Aberdeen, ID	GemCraft	2	40.0	97.9	62	82.5	1.9	1	9.4	5.24	58.1	100	90.0	91	197	52	43
4298	Aberdeen, ID	GemCraft	2	37.9	97.2	61	82.6	2.1	1	9.4	5.44	61.7	92	91.3	77	212	48	31
4299	Aberdeen, ID	GemCraft	2	36.2	96.5	63	82.4	1.9	1	7.8	5.06	69.1	78	93.3	43	196	46	34
4300	Aberdeen, ID	GemCraft	2	38.7	98.4	65	83.2	1.9	1	8.3	5.12	64.2	78	86.0	58	192	48	36
4301	Aberdeen, ID	GemCraft	2	36.7	96.5	64	82.5	1.9	1	8.7	5.05	65.5	76	85.9	91	178	43	38
4302	Aberdeen, ID	GemCraft	2	39.1	98.4	66	82.8	1.9	1	9.1	5.06	62.5	78	87.2	91	190	48	36
4303	Aberdeen, ID	GemCraft	2	40.9	97.6	78	81.1	1.5	1	10.6	5.46	55.0	105	79.6	107	200	50	36
4304	Aberdeen, ID	GemCraft	2	40.6	98.0	85	82.1	1.4	1	9.6	5.06	58.4	105	82.6	108	173	47	45
4305	Aberdeen, ID	GemCraft	2	41.1	99.1	83	83.1	1.3	1	9.3	4.88	57.7	98	81.8	156	176	40	38
4306	Aberdeen, ID	GemCraft	2	40.3	98.5	81	84.0	1.5	1	9.0	4.91	61.3	95	82.7	153	174	40	38

2022 Crop Year Breeders' Submissions

Lab No.	Location	Variety or Selection	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agtron)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (*ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)	Adjunct Quality Score	All Malt Quality Score
4307	Aberdeen, ID	GemCraft	2	43.4	98.7	72	82.4	1.4	1	10.2	5.41	56.1	114	81.7	114	202	51	44
4308	Aberdeen, ID	GemCraft	2	36.9	96.3	71	78.5	1.5	1	14.5	6.31	44.4	158	89.8	214	243	35	12
4309	Aberdeen, ID	GemCraft	2	39.9	98.6	74	79.3	1.6	1	13.5	5.75	45.2	138	86.4	340	214	45	11
4310	Aberdeen, ID	GemCraft	2	38.4	98.4	78	81.1	1.4	1	11.6	5.43	49.9	118	84.5	218	216	52	19
4311	Aberdeen, ID	GemCraft	2	40.0	97.7	78	80.7	1.3	1	11.8	5.43	50.2	116	82.1	218	203	47	19
4312	Aberdeen, ID	GemCraft	2	39.6	97.9	64	78.9	1.6	1	14.4	6.31	44.2	154	85.6	194	236	37	14
4313	Aberdeen, ID	GemCraft	2	38.5	96.8	75	78.3	1.4	1	13.6	6.10	47.2	145	93.2	162	191	30	14
4314	Aberdeen, ID	GemCraft	2	36.1	95.3	71	78.6	1.5	1	15.2	6.17	43.2	139	93.4	367	215	35	12
4315	Aberdeen, ID	GemCraft	2	39.1	98.5	76	79.1	1.5	1	14.0	6.25	48.0	134	92.5	383	194	30	14
4316	Aberdeen, ID	GemCraft	2	39.0	97.2	82	81.4	1.4	1	11.6	5.61	51.2	116	93.5	269	191	46	22
4317	Aberdeen, ID	GemCraft	2	36.3	96.1	68	77.2	1.5	2	16.1	6.52	42.1	158	97.6	352	197	28	16
4318	Aberdeen, ID	GemCraft	2	41.5	99.0	83	82.7	1.4	1	8.2	4.94	61.8	83	82.2	74	152	47	42
4319	Aberdeen, ID	GemCraft	2	41.6	99.5	77	82.9	1.4	1	9.3	5.02	59.6	85	80.1	124	163	43	38
4320	Aberdeen, ID	GemCraft	2	38.2	99.1	75	82.6	1.4	1	8.2	4.69	64.1	73	81.6	42	139	41	39
4321	Aberdeen, ID	GemCraft	2	42.5	99.0	85	84.2	1.4	1	9.4	5.12	58.1	86	80.9	229	181	44	32
4322	Aberdeen, ID	GemCraft	2	42.2	98.5	73	83.0	1.7	1	11.5	5.89	52.7	105	84.4	221	208	49	31
4323	Aberdeen, ID	GemCraft	2	41.8	99.7	72	83.9	1.5	1	8.7	5.22	64.1	91	83.9	177	185	43	31
4324	Aberdeen, ID	CONRAD MALT CHECK	2	41.2	98.3	90	84.8	1.8	2	11.9	5.99	53.9	114	101.0	186	212	49	29
4325	Aberdeen, ID	GemCraft	2	41.2	96.0	84	83.9	1.6	1	9.0	5.01	59.4	74	81.7	174	163	40	35
4326	Aberdeen, ID	GemCraft	2	39.4	99.6	78	83.7	1.5	1	7.5	4.89	67.7	70	78.3	85	163	45	40
4327	Aberdeen, ID	GemCraft	2	41.5	99.7	83	83.6	1.5	1	8.7	5.13	62.3	79	81.4	142	191	46	34
4328	Aberdeen, ID	GemCraft	2	42.0	99.4	74	83.6	1.5	1	10.0	5.41	55.4	104	83.5	193	171	44	47
4329	Aberdeen, ID	GemCraft	2	37.9	98.5	78	81.3	1.5	1	11.1	5.56	52.8	107	84.6	290	202	48	26
4330	Aberdeen, ID	GemCraft	2	35.8	94.1	76	80.1	1.4	2	12.4	5.71	48.9	106	78.6	400	187	40	23
4331	Aberdeen, ID	GemCraft	2	34.6	87.5	76	78.9	1.6	1	12.1	5.66	51.2	107	82.1	245	223	38	14
4332	Aberdeen, ID	GemCraft	2	32.4	77.5	80	80.5	1.6	1	9.0	5.12	58.4	83	83.4	253	180	28	21
4333	Aberdeen, ID	GemCraft	2	32.9	81.3	65	77.1	1.6	1	15.7	6.22	41.7	143	92.4	474	213	26	9
4334	Aberdeen, ID	GemCraft	2	38.1	98.0	76	80.8	1.6	1	11.5	5.52	51.6	104	84.7	327	202	47	28
4335	Aberdeen, ID	GemCraft	2	38.4	98.0	77	79.9	1.5	1	12.2	5.91	50.9	115	85.5	311	228	45	21
4336	Aberdeen, ID	GemCraft	2	34.8	90.7	70	78.6	1.5	1	14.3	5.96	43.6	115	83.6	467	225	35	19
4337	Aberdeen, ID	GemCraft	2	38.7	97.7	77	82.0	1.5	1	10.0	5.37	57.5	84	79.5	276	197	41	34
4338	Aberdeen, ID	GemCraft	2	35.4	96.6	67	78.4	1.6	1	14.4	6.06	43.7	123	81.9	293	235	35	12
4339	Aberdeen, ID	GemCraft	2	39.4	99.0	73	83.6	1.6	1	8.6	5.03	66.4	73	76.5	177	186	41	29
4340	Aberdeen, ID	GemCraft	2	40.6	98.4	80	82.8	1.4	1	9.3	5.08	60.9	91	82.3	205	183	43	31
4341	Aberdeen, ID	GemCraft	2	39.9	99.2	80	84.0	1.4	1	8.2	4.73	64.9	75	80.2	166	169	34	33
4342	Aberdeen, ID	GemCraft	2	39.2	98.3	78	83.3	1.5	1	8.2	4.79	65.2	77	82.0	164	180	34	33
4343	Aberdeen, ID	GemCraft	2	42.2	99.1	71	82.4	1.5	1	10.5	5.61	56.8	103	81.3	170	231	46	41
4344	Aberdeen, ID	GemCraft	2	40.2	96.9	65	81.7	1.6	1	10.1	5.38	55.4	105	85.1	161	207	47	40
4345	Aberdeen, ID	GemCraft	2	40.3	99.6	73	81.7	1.6	1	9.5	5.03	58.1	93	85.2	164	195	43	31
4346	Aberdeen, ID	GemCraft	2	41.0	98.9	70	82.5	1.7	1	8.8	5.05	63.2	91	84.1	115	207	46	31
4347	Aberdeen, ID	GemCraft	2	41.3	99.9	72	82.1	1.5	1	9.3	5.11	56.6	113	89.3	144	208	50	38
4348	Aberdeen, ID	GemCraft	2	39.1	97.4	69	81.7	1.7	1	9.5	5.28	61.4	106	88.1	156	216	47	33
4349	Aberdeen, ID	GemCraft	2	42.4	99.2	68	81.0	1.8	1	10.8	5.34	52.4	120	93.4	105	182	54	30
4350	Aberdeen, ID	GemCraft	2	40.6	99.5	63	80.9	2.0	1	11.6	5.70	52.1	133	92.7	207	207	48	18
4351	Aberdeen, ID	GemCraft	2	41.1	97.3	65	82.0	1.8	1	10.3	5.40	55.9	117	94.1	142	188	50	42
4352	Aberdeen, ID	GemCraft	2	40.3	98.3	65	82.1	1.8	1	9.1	5.06	60.8	116	93.8	133	173	47	41
4353	Aberdeen, ID	GemCraft	2	40.0	98.3	65	82.2	1.8	1	9.6	5.18	57.3	111	91.9	185	175	42	40
4354	Aberdeen, ID	GemCraft	2	38.6	96.5	69	79.6	1.7	1	12.8	5.63	45.4	139	95.9	251	192	51	17
4355	Aberdeen, ID	CONRAD MALT CHECK	2	41.0	97.9	88	84.0	1.8	1	11.5	5.76	53.2	121	98.9	411	193	51	31
4356	Aberdeen, ID	GemCraft	2	38.5	95.4	71	80.6	1.6	1	11.4	5.52	50.6	133	92.0	215	188	50	24
4357	Aberdeen, ID	GemCraft	2	38.2	97.4	72	82.6	1.7	1	8.4	5.02	64.8	92	88.1	147	170	41	36
4358	Aberdeen, ID	GemCraft	2	39.8	99.0	71	80.2	1.8	1	11.7	5.53	49.8	128	89.5	242	192	50	19
4359	Aberdeen, ID	GemCraft	2	39.9	97.7	70	81.7	1.7	1	8.8	4.95	57.4	96	86.4	174	160	38	36
4360	Aberdeen, ID	GemCraft	2	38.2	95.3	68	81.4	1.8	1	9.4	5.07	58.4	101	87.4	179	171	42	35
4361	Aberdeen, ID	GemCraft	2	40.5	98.7	66	81.3	1.9	1	10.4	5.38	55.2	110	91.6	186	199	47	38
4362	Aberdeen, ID	GemCraft	2	38.3	96.1	70	82.3	1.9	1	7.7	4.92	66.1	89	87.3	145	180	44	32
4363	Aberdeen, ID	GemCraft	2	40.4	98.2	64	81.3	1.9	1	10.5	5.47	55.9	112	88.8	205	206	47	35
4364	Aberdeen, ID	GemCraft	2	40.3	98.6	70	82.1	1.7	1	9.5	5.11	58.6	115	88.3	156	193	47	34
4365	Aberdeen, ID	GemCraft	2	44.0	99.8	70	82.3	1.8	1	9.3	5.18	59.9	113	87.7	119	198	51	42
4366	Aberdeen, ID	GemCraft	2	41.5	96.8	67	81.8	1.9	1	9.4	5.24	62.2	107	81.3	98	195	54	45
4367	Aberdeen, ID	GemCraft	2	38.3	96.7	70	82.0	1.9	1	9.0	5.06	59.5	103	80.9	218	184	45	36
4368	Aberdeen, ID	GemCraft	2	39.4	99.8	69	81.6	1.8	1	9.4	4.98	58.7	110	85.3	167	178	42	40
4369	Aberdeen, ID	GemCraft	2	39.8	98.9	70	82.1	1.7	1	9.4	4.75	52.0	95	83.9	180	173	34	36
4370	Aberdeen, ID	GemCraft	2	41.0	97.8	70	80.6	1.8	1	11.4	5.36	51.0	126	88.5	177	207	52	23
4371	Aberdeen, ID	GemCraft	2	38.6	98.2	68	80.1	1.9	1	12.2	5.56	46.5	134	89.6	165	209	55	16
4372	Aberdeen, ID	GemCraft	2	40.1	98.5	65	80.6	1.8	1	12.1	5.55	48.7	132	86.9	209	200	52	18

2022 Crop Year Breeders' Submissions

Lab No.	Location	Variety or Selection	Rowed	Kernel Weight (mg)	on 6/64" (%)	Barley Color (Agtron)	Malt Extract (%)	Wort Color	Wort Clarity	Barley Protein (%)	Wort Protein (%)	S/T (%)	DP (*ASBC)	Alpha-amylase (20°DU)	Beta-glucan (ppm)	FAN (ppm)	Adjunct Quality Score	All Malt Quality Score
4373	Aberdeen, ID	GemCraft	2	40.4	98.6	67	78.9	2.1	1	13.9	6.11	47.1	143	88.6	234	219	34	13
4374	Aberdeen, ID	GemCraft	2	39.0	98.7	63	79.3	1.7	1	13.8	5.93	45.3	139	87.9	353	228	40	11
4375	Aberdeen, ID	GemCraft	2	42.5	99.9	68	80.2	1.9	1	12.0	5.69	49.5	128	88.7	173	228	51	19
4376	Aberdeen, ID	GemCraft	2	38.6	98.5	69	80.3	1.5	1	11.0	5.27	51.1	135	91.6	258	211	52	21
4377	Aberdeen, ID	GemCraft	2	39.4	96.9	66	80.0	1.5	1	11.9	5.57	48.7	145	88.1	280	218	52	16
4378	Aberdeen, ID	GemCraft	2	41.8	98.1	73	80.6	1.4	1	10.6	5.36	53.8	140	89.8	156	203	47	23
4379	Aberdeen, ID	GemCraft	2	39.1	97.6	63	80.8	1.5	1	10.2	5.19	54.7	117	88.9	172	198	42	32
4380	Aberdeen, ID	GemCraft	2	41.1	98.2	71	82.3	1.6	1	8.4	4.86	62.8	112	86.8	193	174	44	42
4381	Aberdeen, ID	GemCraft	2	40.8	99.6	70	81.5	1.5	1	10.7	4.97	50.3	124	85.4	352	184	50	26
4382	Aberdeen, ID	GemCraft	2	42.3	98.0	63	81.7	1.7	1	9.7	5.22	56.2	125	89.5	117	203	54	32
4383	Aberdeen, ID	GemCraft	2	42.8	98.6	72	81.7	1.5	1	9.9	5.13	56.3	127	90.8	147	196	54	40
4384	Aberdeen, ID	GemCraft	2	40.8	97.6	70	81.8	1.6	1	9.4	5.17	57.6	118	88.7	161	193	47	34
4385		CONRAD MALT CHECK	2	41.2	97.9	88	83.7	1.6	1	11.5	5.63	51.8	135	96.5	312	208	51	28