

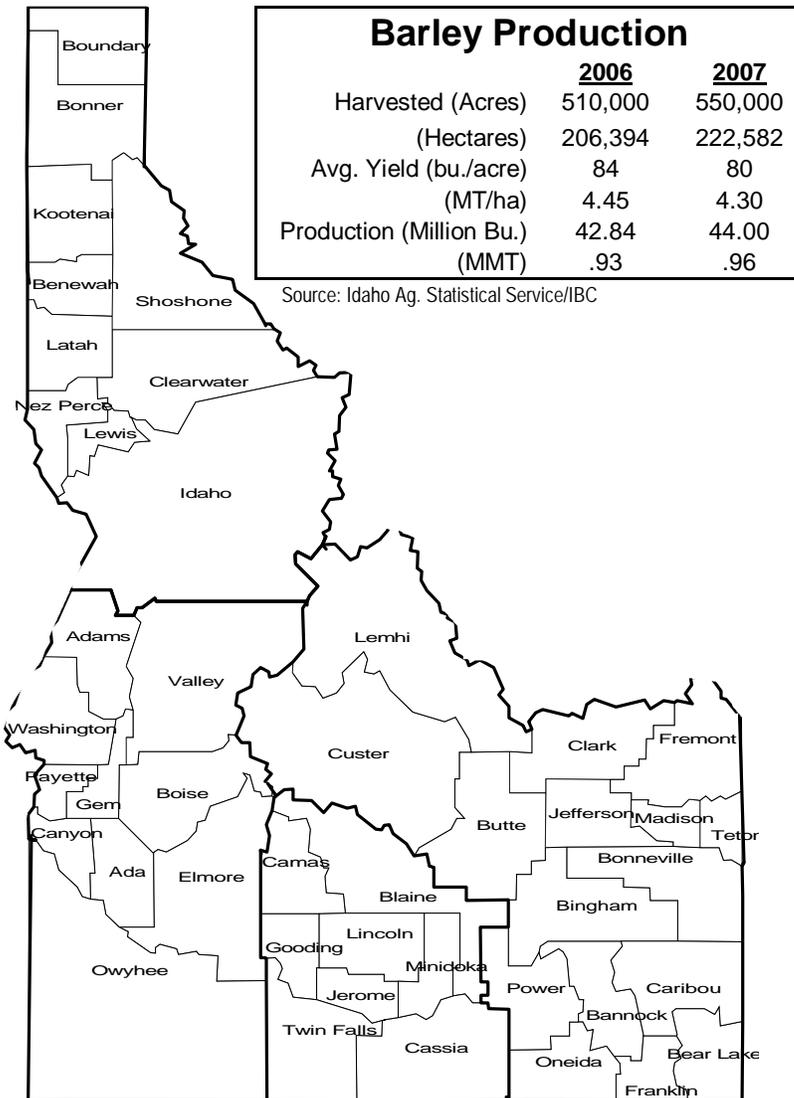


2007

BARLEY QUALITY

REPORT

2007 IDAHO BARLEY QUALITY REPORT



Summary

Idaho barley production totaled 44 million bushels from 550,000 harvested acres in 2007, an increase of 3% from the previous year. Quality was mostly good overall.

Approximately 59% of Idaho's barley sampled received a USDA/FGIS grade of #1. There were 221 barley samples collected from Idaho elevators, commodity brokers and farmers. The samples were separated by class, variety and region. They were graded at a licensed Federal Grain Inspection Service (FGIS) facility.

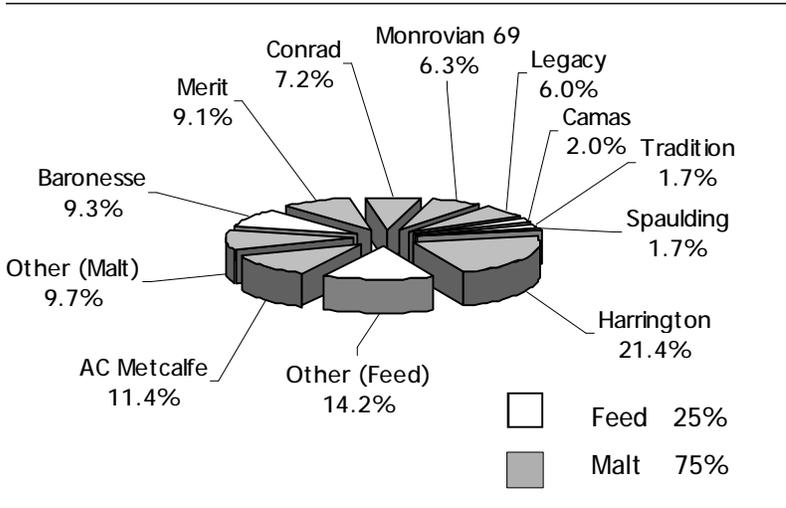
Average weight was slightly lower than last year at 48.1 pounds per bushel (lb/bu). Eighty-five percent of the 2-row malting barley crop tested 48 lb/bu or better and fifty-four percent of the 6-row malting barley crop tested 48 lb/bu or better. Overall thins averaged 4.3% and plumps averaged 85.1%. Protein averaged 11.6% statewide and moisture averaged 8.6%. The average for skinned and broken kernels was 1.3%.

Average Statewide Barley Quality

Type	# Samples	Test Wt. ¹		1000 Knl	Moist %	Thin ² %	Protein	Sound ³	Skn/Br ⁴ %	% Plump	Average
		(lb/bu)	(kg/hl)	(grams)							
2-R Feed	60	47.05	60.60		9.18	4.61	16.75	95.75			1.78
6-R Feed	23	47.93	61.74		9.13	6.60	12.36	98.81			1.48
2-R Malting	97	50.14	64.58	41.00	8.79	4.18	11.74	99.63	1.81	90.03	1.56
6-R Malting	28	48.08	61.92	34.95	9.04	2.98	11.53	99.69	2.07	79.36	1.54
2007 Avg.	221	48.10	61.95	35.79	8.58	4.27	11.57	99.00	1.34	85.10	1.64
2006 Avg.	230	49.70	64.02	39.50	9.40	3.74	11.38	99.35	1.33	86.78	1.35
5 Yr Avg.	282	48.99	63.2	38.29	9.35	4.22	11.81	99.29	1.62	84.82	1.50

2007 IDAHO BARLEY VARIETIES

MALTING VS FEED



Source: 2006 IBC/Idaho Ag Statistics Service

Top Ten Idaho Varieties

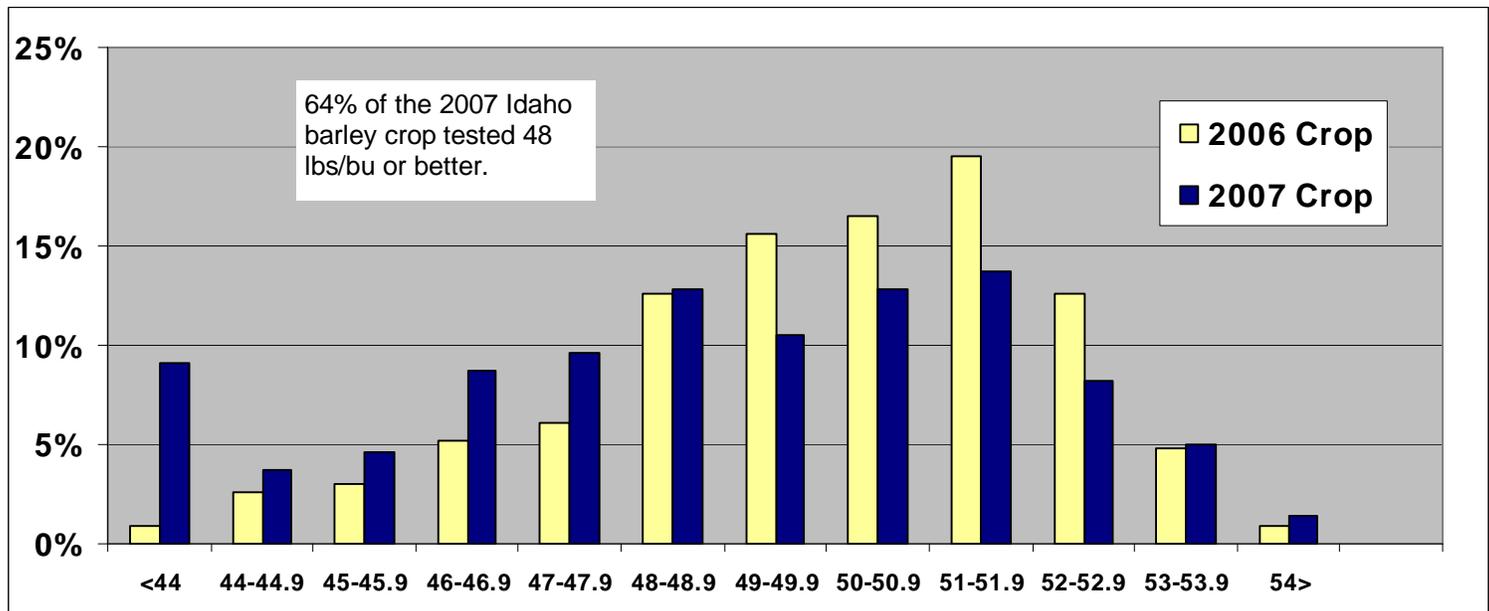
Variety	Planted Acres	Hectares	% of Prod.
Harrington (2-Row Malt)	106,900	43,262	21.4%
AC Metcalfe (2-Row Malt)	92,400	37,394	11.4%
Baronesse (2-Row Feed)	70,300	28,450	9.3%
Merit (2-Row Malt)	56,400	22,825	9.1%
Conrad (2-Row Malt)	46,500	18,818	7.2%
Moravian 69 (2-Row Malt)	43,400	17,564	6.3%
Legacy (6-Row Malt)	37,100	15,014	6.0%
Camas (2-Row Feed)	12,800	5,180	2.0%
Tradition (6-Row Malt)	10,600	4,290	1.7%
Spaulding (2-Row Feed)	10,600	4,290	1.7%
Other Malt	1,900	769	9.7%
Other Feed	11,700	4,735	14.2%
TOTAL:	500,600	202,590	100%

Source: 2006 IBC/Idaho Ag Statistics Service

2007 Idaho Barley Quality By Variety

Variety	Type/Use	# Samples	Test Wt. (lbs/bu)	1000 Knl (grams)	Moisture %	Thin %	Protein %	Sound %	Skn/Br%	Plump%	Average
Harrington	2-Row Malt	43	49.60	63.89	8.56	3.64	11.72	99.61	1.60	71.34	1.63
AC Metcalfe	2-Row Malt	26	49.52	63.78	8.92	5.45	12.41	95.33	1.29	61.02	1.77
Legacy	6-Row Malt	20	47.16	60.74	8.98	4.02	12.08	99.7	1.74	64.12	1.85
Baronesse	2-Row Feed	16	49.71	61.65	8.83	5.33	12.28	86.89	1.56		1.56
Merit	2-Row Malt	9	48.67	62.68	8.83	3.24	10.08	99.72	1.39	87.24	1.67
Conrad	2-Row Malt	23	50.08	64.51	8.69	4.11	12	95.46	1.29	80.91	1.52
Steptoe	6-Row Feed	2	30.63	39.46	5.77	3.63	10.60	99.85			1.33
Tradition	6-Row Malt	6	48.72	61.59	8.87	2.73	11.7	99.67	1.82	82.9	1.5
Stander	6-Row Malt	4	50.40	64.92	9.58	0.93	10.08	99.73	2.08	90.75	1

Idaho Barley Test Weight Distribution 2006-2007



2007 Regional Quality

North Idaho



Barley Production

	<u>2006</u>	<u>2007</u>
<u>Harvested (Acres)</u>	40,800	73,700
(Hectares)	16,512	29,826
% Idaho Acreage	8%	13.4%

Source: Idaho Ag. Statistical Service/IBC

Barley Varieties Planted

Baronesse	36.0%
AC Metcalfe	26.1%
Camas	17.7%
Conrad	11.4%
Salute	2.7%
Harrington	1.5%
Other Feed	5.5%
Other Malting	0.1%

Type	# Samples	Test Wt. ¹ (lb/bu)	(kg/hl)	1000 Knl (grams)	Moist %	Thin ² %	Protein	Sound ³	Skn/Br ⁴ %	% Plump ⁵	Average
2-R Feed	8	47.23	60.83		8.35	9.98	13.24	99.51			1.75
2-R Malting	3	47.13	60.71		8.27	9	12.17	97.97		46	2

2007 Avg.	12	47.56	55.73		7.63	8.90	11.87	90.05			1.67
2006 Avg.	15	50.27	64.75		9.31	4.62	11.87	99.64			1.27
5 Yr Avg.	26	40.60	51.18	27.12	7.54	5.37	10.02	97.59	1.61	53.85	1.38



Southwest Idaho

Barley Production

	<u>2006</u>	<u>2007</u>
<u>Harvested (Acres)</u>	10,200	6,600
(Hectares)	4,128	2,671
% Idaho Acreage	2%	1.2%

Source: Idaho Ag. Statistical Service/IBC

Barley Varieties Planted

Baronesse	18.1%
Steptoe	12.8%
Idagold	10.6%
Millennium	5.3%
Sprinter	4.3%
Other Feed	43.6%

Type	# Samples	Test Wt. ¹ (lb/bu)	(kg/hl)	1000 Knl (grams)	Moist %	Thin ² %	Protein	Sound ³	Skn/Br ⁴ %	% Plump ⁵	Average
2-R Feed	6	51.83	66.76		9.07	3.63	11.03	99.37			1

2007 Avg.	6	51.83	66.76		9.07	3.63	11.03	99.37			1
2006 Avg.	7	47.36	61		8.07	6.31	11.15	95.49			2.43
5 Yr Avg.	8	44.57	57.41		7.78	3.36	9.69	87.61			1.18

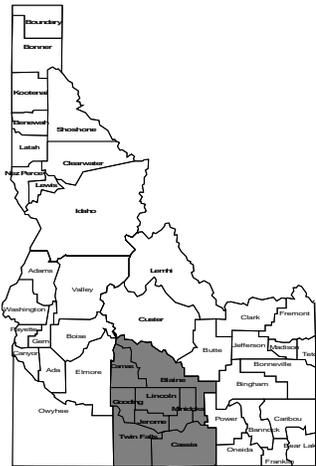
¹ Weighted average by regional production

² % Thins: 2-rowed kernels passing through a 5/64 x 3/4 in. (2.2 x 19 mm) slotted sieve
6-rowed kernels passing through a 5/64 x 3/4 in. (2.0 x 19 mm) slotted sieve

2007 Regional Quality

South Central Idaho

Barley Varieties Planted



Barley Production

	2006	2007
Harvested (Acres)	117,300	123,200
(Hectares)	47,471	49,858
% Idaho Acreage	22.7%	22.4%

Source: Idaho Ag. Statistical Service/IBC

Moravian 69	33.7%
Harrington	14.8%
Baronesse	8.2%
Gallatin	7.5%
Conrad	5.6%
Eight Twelve	5.4%
Sunstar Double	4.6%
Idagold	3.3%
Other Malting	0.6%
Other Feed	16.2%

Type	# Samples	Test Wt. ¹	1000 Knl	Moist %	Thin ² %	Protein	Sound ³	Skn/Br ⁴ %	% Plump ⁵	Average
		(lb/bu)	(kg/hl)	(grams)						
2-R Feed	5	47.98	61.80	9.48	1.93	10.33	99.80			1
6-R Feed	6	47.33	60.97	8.72	5.22	11.45	99.82			1.50
2-R Malting	45	51.03	65.73	41.22	8.86	3.90	11.66	1.44	91.96	1.40

2007 Avg.	56	50.36	64.87	50.23	8.90	3.83	10.07	89.85	1.03	90.28	1.38
2006 Avg.	67	50.45	64.98	41.46	9.25	4.40	11.41	99.71	1.03	90.28	1.16
5 Yr Avg.	82	50.56	65.12	42.83	9.24	2.99	11.23	97.69	1.46	91.51	1.21

Southeast Idaho

Barley Varieties Planted



Barley Production

	2006	2007
Harvested (Acres)	341,700	346,500
(Hectares)	138,283	140,226
% Idaho Acreage	67.3%	63%

Source: Idaho Ag. Statistical Service/IBC

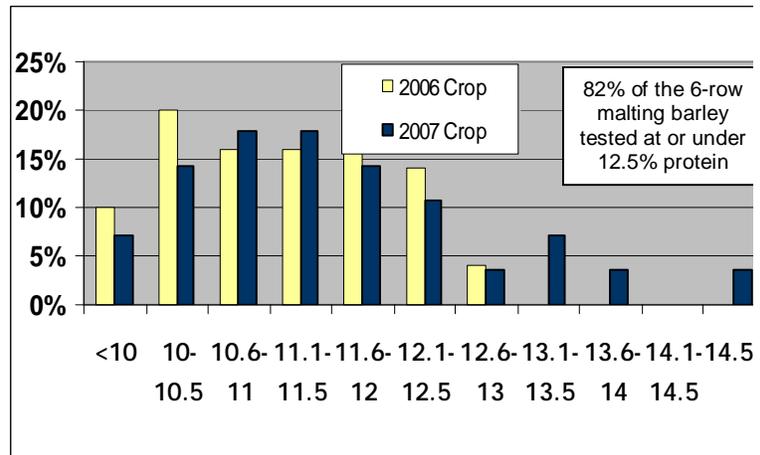
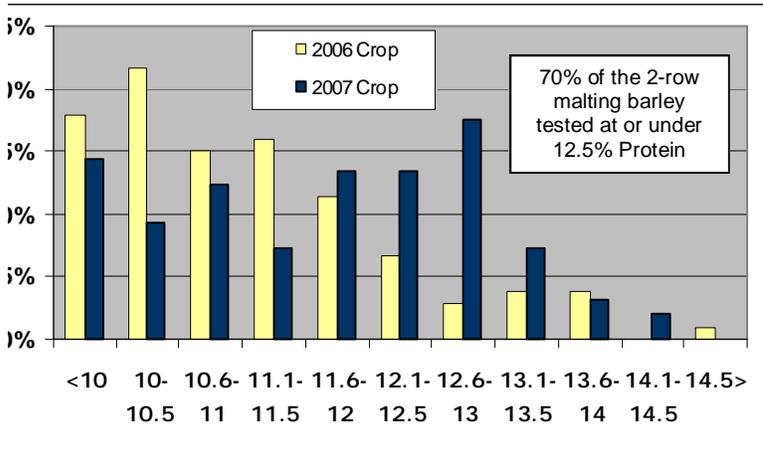
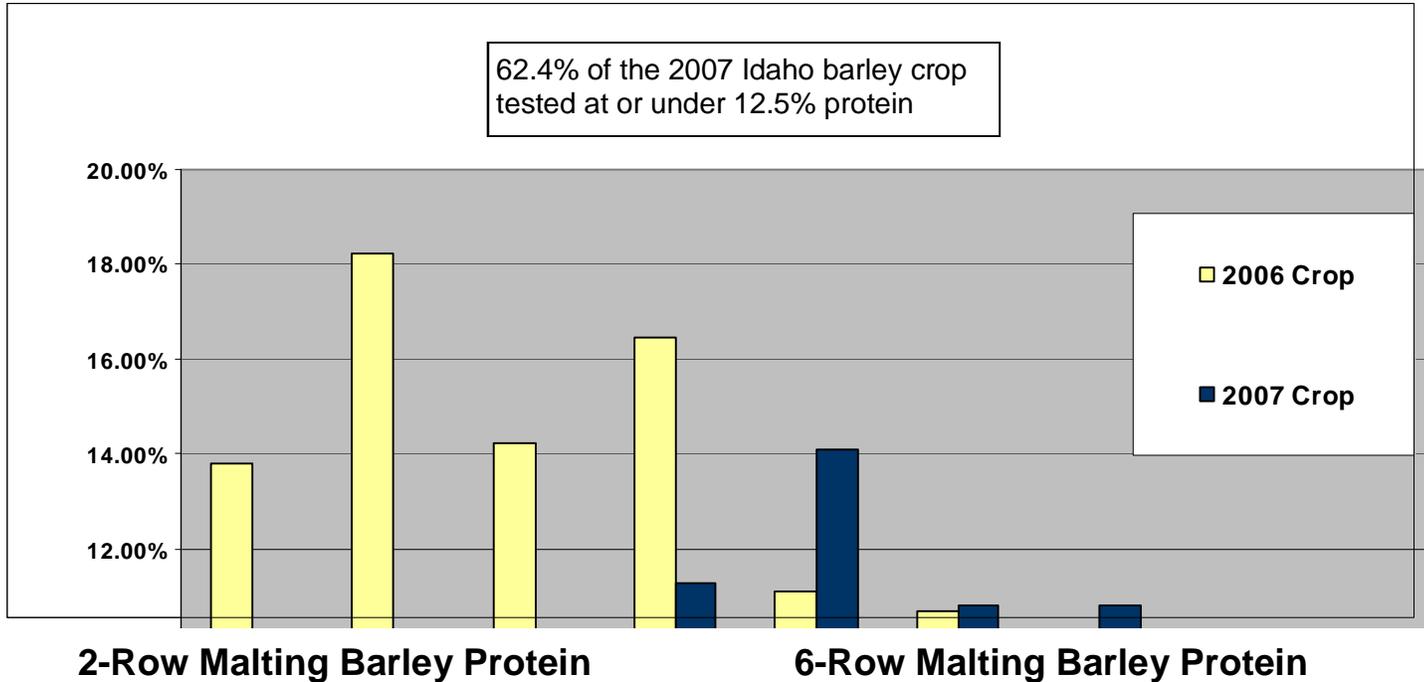
Harrington	25.2%
AC Metcalfe	21.0%
Merit	16.4%
Legacy	10.6%
Baronesse	10.0%
Conrad	9.2%
Tradition	3.1%
Xena	2.0%
Stander	1.4%
Other Malting	0.3%
Other Feed	1.0%

Type	# Samples	Test Wt. ¹	1000 Knl	Moist %	Thin ² %	Protein	Sound ³	Skn/Br ⁴ %	% Plump ⁵	Average
		(lb/bu)	(kg/hl)	(grams)						
2-R Feed	42	46.25	59.58	9.30	4.04	13.93	98.94			3.32
6-R Feed	9	46.46	59.83	10.02	4.87	13.54	98.50			2.11
2-R Malting	49	49.50	63.75	39.76	8.94	3.91	11.53	2.18	87.74	1.63
6-R Malting	28	48.08	61.92	34.95	9.04	2.98	11.53	2.00	79.36	1.54

2007 Avg.	128	47.91	61.71	79.48	9.08	3.82	12.46	99.30	2.11	84.41	1.76
2006 Avg.	136	49.36	3.57	9.55	3.21	11.25	99.35	1.52	80.57	1.40	
5 Yr Avg.	159	48.64	62.77	69.21	9.67	4.30	12.16	99.25	1.76	85.55	1.61

³ % Sound = 100 % dockage free barley (minus) % damaged kernels, % foreign material, % other grains, % wild oats
⁴ % Skinned and broken kernels ⁵ % Plump: Kernels retained on or above 6/64 x 3/4 in. (2.4 x 19 mm) elutriated sieve

Idaho Barley Protein Distribution 2006-2007



METHODS EMPLOYED AND DEFINITION OF TERMS AND SYMBOLS

TEST WEIGHT - Test weight was determined on dockage free barley using a Seedbuco Model #8850 computer grain scale. Test weight was expressed in pounds per bushel. In the event sample moisture exceeded 13.5%, the sample was allowed to air-dry prior to test weight determination.

MOISTURE - Moisture expressed as % of total weight was determined by using a Dicky-john gac2100.

PROTEIN - Percent total protein calculated on a dry basis was determined by infratech model 1241 whole grain analyzer using ANN calibration.

PLUMP BARLEY - Barley that remains on top of a 6/64 x 3/4 slotted-hole sieve after sieving.

THIN BARLEY - For the class Barley¹ and 6-row barley which passes through a 5/64 x 3/4 slotted-hole sieve and 2-row malting barley² which passes through a 5.5/64 x 3/4 slotted-hole sieve after sieving.

¹ The class Barley is a mixture of 10% or more of 2-row barley or 6-row barley.

² 2-row malting barley is sieved on a 5.5/64 x 3/4 slotted-hole sieve which would be higher thins.

USDA/FGIS

United States Grades and Grade Requirements

§ 810.204 Grades and grade requirements for the subclasses Six-rowed Malting Barley and Six-rowed Blue Malting Barley.

Grade	Minimum limits of -			Maximum Limits of -				
	Test Weight Per/bu.	Suitable Malting Types	Sound Barley ¹	Damaged Kernels ¹	Foreign Material	Other Grains	Skinned & Broken Kernels	Thin Barley ²
	<i>Pounds</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>
U.S. No. 1	47.0	95.0	97.0	2.0	.5	2.0	4.0	7.0
U.S. No. 2	45.0	95.0	94.0	3.0	1.0	3.0	6.0	10.0
U.S. No. 3	43.0	95.0	90.0	4.0	2.0	5.0	8.0	15.0
U.S. No. 4	43.00	95.0	87.0	5.0	3.0	5.0	10.0	15.0

¹ Injured-by-frost kernels and injured-by-mold kernels are not considered damaged kernels or considered against sound barley..

² Use the 5/64 x 3/4 slotted-hole sieve

Note: Malting barley shall not be infested in accordance with § 810.07(b) and shall not contain any special grades as defined in § 810.206. Six-rowed Malting barley and Six-rowed Blue Malting barley varieties not meeting the requirements of this section shall be graded in accordance with standards established for the class Barley.

§ 810.205 Grades and grade requirements for Two-rowed Malting Barley.

Grade	Minimum limits of -			Maximum Limits of -			
	Test Weight Per/bu.	Suitable Malting Types	Sound Barley ¹	Wild Oats	Foreign Material	Skinned & Broken Kernels	Thin Barley ²
	<i>Pounds</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>
U.S. No. 1	50.0	97.0	98.0	1.0	0.5	5.0	5.0
U.S. No. 2	48.0	97.0	98.0	1.0	1.0	7.0	7.0
U.S. No. 3	48.0	95.0	96.0	2.0	2.0	10.0	10.0
U.S. No. 4	48.0	95.0	93.0	3.0	3.0	10.0	10.0

¹ Injured-by-frost kernels and injured-by mold kernels are not considered damaged kernels or considered against sound barley

² Use the 5.5/64 x 3/4 slotted-hole sieve.

Note: Malting barley shall not be infested in accordance with § 810.07(b) and shall not contain any special grades as defined in § 810.206. Two-rowed Malting barley varieties not meeting the requirements of this section shall be graded in accordance with standards established for the class Barley.

§ 810.206 Grades and grade requirements for Barley.

Grade	Minimum limits of -			Maximum Limits of -			
	Test Weight Per/bu.	Sound Barley ¹	Damaged Kernels ¹	Heat Damaged Kernels	Foreign Material	Skinned & Broken Kernels	Thin Barley ²
	<i>Pounds</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>
U.S. No. 1	47.0	97.0	2.0	0.2	1.0	4.0	10.0
U.S. No. 2	45.0	94.0	4.0	0.3	2.0	8.0	15.0
U.S. No. 3	43.0	90.0	6.0	0.5	3.0	12.0	25.0
U.S. No. 4	40.0	85.0	8.0	1.0	4.0	18.0	35.0
U.S. No. 5	36.0	75.0	10.0	3.0	5.0	28.0	75.0

U.S. Sample grade shall be barley that:

(a) Does not meet the requirements for the grades 1, 2, 3, 4, or 5: or

(b) Contains 8 or more stones or any number of stones which have an aggregate weight in excess of 0.2 percent of the sample weight, 2 or more pieces of glass, 3 or more crotalaria seeds (*Crotalaria* spp.), 2 or more castor beans (*Ricinus communis* L), 4 or more particles of unknown foreign substance(s) or commonly recognized harmful or toxic substance(s), 8 or more cocklebur (*Xanthium* spp.) or similar seeds singly or in combination, 10 or more rodent pellets, bird droppings, or equivalent quantity of other animal filth per 1-1/8 to 1-1/4 quarts of barley: or (c) Has a musty, sour, or commercially objectionable foreign odor (except smut or garlic odor); or (d) Is heating or otherwise of distinctly low quality.

¹ Includes heat damaged kernels. Injured-by-frost kernels and injured-by-mold kernels are not considered damaged kernels or considered against sound barley..

² Use the 5/64 x 3/4 slotted-hole sieve

METRIC CONVERSION TABLES FOR BARLEY

U.S. to Metric	
1 Wet Quart (Qt)	= 0.9464 Liter (L)
1 Dry Quart	= 1.10 Liters
1 Wet Gallon (Gal)	= 3.785 Liters
1 Wet Gallon	= 0.0378 Hectoliter (Hl)
1 Dry Gallon	= 4.404 Liters
1 Dry Gallon	= 0.044 Hectoliter
1 Bushel	= 0.352 Hectoliter
1 Acre (A)	= 0.404694 Hectare (Ha)
1 Pound (Lb)	= 0.4536 Kilogram (Kg)
1 Mile (Mi)	= 1.610 Kilometers (Km)
1 Bu. Barley	= .021772 Metric Ton
1 Beer Barrel	= 31.0 Gallons
Lb/Bu x 1.288	= Kg/Hl
Bu/A x 0.869	= Hl/Ha
Bu/A x .05380	= MT/Ha

Metric to U.S.	
1 Liter	= 1.0567 Wet Quarts
1 Liter	= 0.098 Dry Quart
1 Liter	= .2642 Wet Gallon
1 Hectoliter	= 26.42 Wet Gallons
1 Liter	= .227 Dry Gallon
1 Hectoliter	= 22.70 Dry Gallons
1 Hectoliter	= 2.838 Bushels
1 Hectare	= 2.471 Acres
1 Kilogram	= 2.2046 Pounds
1 Kilometer	= 0.62 Mile
1 Metric Ton	= 45.9296 Bu. of Barley
1.1734 Hectoliters	= 1 Beer Barrel
Kg/Hl x .7764	= Lb/Bu
Hl/Ha x 1.15	= Bu/A
MT/Ha x 18.59	= Bu/A

STANDARDS

	Lbs/Bu	Kg/Hl
Malt	34	43.79
Barley	48	61.82

ACKNOWLEDGMENTS

The Idaho Barley Commission would like to thank the barley producers, elevator operators and commodity dealers who participated in our barley quality survey. Their combined efforts were responsible for the success of this survey.

Additional copies of this report are available by contacting the Idaho Barley Commission.



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