BARLEY STANDARDS 2016 - 2017

GrainFlow

THIS CHART IS INTENDED TO ACT AS A GUIDE ONLY

703.5 - SA Barley Standards 2016-2017 - Iss1 - October 2016

Sampling Guidelines

1) A minimum of 3 vertical probes must be taken from every bin-load tendered for delivery. At least 3 litres must be drawn plus an additional litre for every 10 tonnes in the load.
2) The sample must be mixed prior to assessment.
3) A half litre sub-sample must then be taken for test weight, screenings, unmillable, defect and contaminant determination.
4) A separate sub-sample may be taken for assessment of other traits.

Binning guidelines.

Varietal restrictions apply to the grades on this chart.

These standards are to be applied on individual truck loads and must not be averaged over a number of loads
Segregations indicated on this chart are not available at all GrainFlow locations

All malting varieties must be segregated and of the currrent season		MALTING BARLEY			FEED BARLEY	
	Baudin	BA1	BA2	BA3	F1	F2
	Buloke	BU1	BU2	BU3		
	Commander	CO1	C02	CO3		
	Latrobe	LA1	LA2	LA3		
	Scope	SO1	SO2	SO3		
Test Code	Hindmarsh (HIND)	HIND	-	-		
VARP	**Varietal purity min (%)** 2 row barley with a white aleurone layer of sound ripe merchantable condition	95	95	95	All 2 row varieties	
MOGR	**Moisture max (%)**	13	13	13	13	13
PRGR	**Protein Content (%) Minimum**	9	9	9	No Limit	No Limit
	Protein Content (%) Maximum	12	12	12.8	No Limit	No Limit
TWT	**Test Weight min (kg/hl)**	65	65	65	62.5	60
R250	**Retention min (% by weight)** above 2.5mm Agtator screen	70	62	58	No Limit	No Limit
SCR5	**Screenings max (% by weight)** below 2.2mm Agtator screen	7	10	No Limit	15	25
GMEN	**Germinative Energy min (%) #**	95	95	95	No Limit	No Limit
GRMC	**Germinative Capacity min (%)** (IOB 4 mL Germinative Enerfy test is preferred and overrides Germinative Capacity test where practical) #	98	98	98	No Limit	No Limit
FALL	**Falling Number min (seconds)**	300	300	300	No Limit	No Limit
RVA	Or **RVA min** (falling number is preferred and overrides RVA where available)	130	130	130	No Limit	No Limit
	Defective Grain - Grain- Maximum tolerance count per 100 grain sample unless otherwise stated. (Sample to taken from the bucket sample) Note: **NIL** tolerance apples to the entire load expect where stated otherwise					
SPRO	**Sprouted/Pre germinated Max** (count per 100 grains) Split germ and/or a more advanced stage in which germ has grown	NIL	NIL	NIL	NIL	5
SHOT	Shot maximum (count per 100 grains)	NIL	NIL	NIL	No Limit	No Limit
FFUN	**Black tip/ Field Fungi max** (count per 100 grains)	10	10	10	No Limit	No Limit
FFAG	Of which **Field Fungi max** (count per 100 grains)	5	5	5	No Limit	No Limit
SKIN	**Skinnings max** (count per 100 grains)	15	15	15	No Limit	No Limit
BIDB	**Bored Insect Damaged Barley max** (count per half litre)	10	10	10	85	85
SPCL	**Split / Cleaved Barley max** (count per 100 grains)	1	1	1	No Limit	No Limit
BRSH	**Broken Grain max** (% by weight per 100 grams)	2	2	2	5	5
FROS	**Frost Damaged max** (count per 100 grains)	5	5	5	10	10
GREE	**Dry green or Sappy green max** (count per 100 grains)	1	1	1	No Limit	No Limit
BURN	**Heat Damaged, Bin Burnt or Storage Mould max** (count per half litre)	1	1	1	1	5
	Foreign Seed Contaminants - Tolerances apply to whole seeds or their equivalent in pieces and refer to the maximum total of all seeds named in each type per half litre Except type (1) in which the maximum applies on an individual seed basis per half litre					
BS1	**TYPE (1):** Colocynth, Field poppy, Horned Poppy, Jute, Long Headed Poppy, Mexican Poppy, New Zealand Spinach, Parthenium Weed**, Saffron Thistle, Wild Poppy	8*	8*	8*	8*	8*
BS2	**TYPE(2):** Castor oil plant, Coriander, Crow Garlic/Wild Garlic, Darling Pea, Opium Poppy, Peanut seeds and pods, Ragweed, Rattlepods, Starburr, St Johns Wort	NIL	NIL	NIL	NIL	NIL
BS3A	**TYPE(3A):** Bathurst Burr,Bellvine, Branched Broomrape, Bulls Head/Caltrop/Cats Heads, Cape Tulip, Cotton Seed, Dodder, Noogoora Burr, Thornapple	2	2	2	2	2
BS3B	**TYPE (3B):** Vetch (commercial), Vetch (Tare)	4	4	4	4	10
BS3C	**TYPE(3C):** Heliotrope (Blue), Helitrope (common)	1 Pod / 4 Seeds	1 Pod / 4 Seeds	1 Pod / 4 Seeds	1 Pod / 4 Seeds	1 Pod / 4 Seeds
BS3D	**TYPE(3D):** Double Gee/Spiney Emex/ Three Corner Jack	1	1	1	1	1
BS4	**TYPE(4):** Bindweed (Field), Cutleaf Mignonette seeds or pods, Darnel (Drake Seed), Hexam Scent/Melilot (King Island)***, Hoary Cress, Mintweed, Nightshades, Paddy Melon, Skeleton Weed, Variegated Thistle	20	20	20	20	20
BS5	**TYPE(5):** Creeping Knapweed/Russian Knapweed, Patersons Curse/Salvation Jane, Sesbania Pea	40	40	40	40	40
BS6	**TYPE(6):** Columbus Grass, Johnson Grass****	NIL	NIL	NIL	40	40
BS7A	**TYPE(7a):** Chickpeas, Clover/Medic Pods, Cowpea, Faba Beans, Field Peas, Lentils, Lupins, Maize (corn), Safflower, Soybean, Sunflower, and any other seeds or pods greater than 5mm in diameter including broad bean	1	1	1	10	20
BS7B	**TYPE(7b):** Barley (6 Row), Bedstraw, Bindweed (Australian), Bindweed (Black), Brome grass, Musk weed, Onion Weed, Phalaris Glumes, Poverty Weed Ryegrass on stalk, Sheep Weed, Sorghum Grain, Three Horn Bedstraw, Turnip Weed, Any other seed contaminant not specified in TYPE(1)-TYPE(7a) or in SFS	50	50	50	150	300
BS1A	**WHEAT, CEREAL RYE, TRITICALE, RICE, CULTIVATED OATS**	85	85	85	500	1500
BS1B	**Wild Oats, Wild Radish**	25	25	25	50	100
BBAL	**Barley with Blue Aleurone Layer**	NIL	NIL	NIL	100	100
SFS	**Small Foreign Seeds max** (% by weight) Foreign seeds not specified in TYPE (1) - TYPE (7b) falling below 2.2mm agtator screen	0.6%	0.6%	0.6%	1.2%	2.0%
	* Individual Seed Basis **Parthenium Weed is a NIL tolerance in NSW/VIC/SA *** Hexham Scent is only acceptable if no tainting odour is present ****TYPE(6) limit in QLD is 40 per half litre for all barley grades					
	Other Contaminants - Maximun tolerance per half litre unless otherwise stated Note: **NIL** tolerance applies to the entire load except where otherwise stated					
FM	Foreign Material max (% by weight per half litre) Other then already specified includes: Chaff, straw, backbone	1%	1%	1%	1%	1%
ERGC	Cereal Smut/Ergots max (count per half litre) Includes: Ball and gall smut, other smut species, cereal ergots	NIL	NIL	NIL	NIL	NIL
LSMT	Loose smut (weight in grams) Weight of all pieces pwe half litre	0.1	0.1	0.1	0.1	0.1
ERGR	Ergot of Ryegrass max (lenth in cm when pieces are aligned per half litre)	0.5cm	0.5cm	0.5cm	0.5cm	0.5cm
SGIL	Stored Grain Insects and Pea Weevils: Live max (entire load)	NIL	NIL	NIL	NIL	NIL
INLG	Field Insects: Large Live or Dead max (Count per 1/2 ltr) Includes Rutherglen bugs, ladybirds, grasshoppers/locusts, sitona & pea weevils, wood bugs	3	3	3	3	3
INSM	Field Insects: Small Live or Dead max (Count per half litre) Includes all species of aphid, mites & stored garin insects (dead)	10	10	10	10	10
SNAL	Snails max (Count per half litre)	2	2	2	2	4
ESAP	Earth max (5mm in diameter)	3	3	3	3	3
ESA	Sand max (Count per half litre)	50	50	50	50	50
OBJM	Objectionable Matter max (entire load) Includes: Sticks, glass, concrete, or any other commerically unacceptable contaminant, smell or taste	NIL	NIL	NIL	NIL	NIL
STON	Stones (g per 2.5L) Maximum weight of all stones above 2.2 & 2.5mm screen per 2.5 L	4	4	4	4	4
PICK	Pickled Max (entire Load)	NIL	NIL	NIL	NIL	NIL
CHEM	Chemical Residues max (entire load) Residues of any chemical compound not approved for barley or used in contravention of the labelled instructions	NIL	NIL	NIL	NIL	NIL

This chart is based on Grain Trade Australia (GTA) standards CSG-10, CSG-11, CSG-20, CSG-21 and CSG-22

Not to be assessed at Sample Stand uinless otherwies advised

GrainFlow Enquiries Toll Free 1800 4GRAIN
www.grainflow.com.au

Prepared and issued by - Grain Technical Services Coordinator.