

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 current season		MALTING BARLEY			FEED BARLEY	
		BA1 BU1 CO1 LA1 SO1 HIND	BA2 BU2 CO2 LA2 SO2 -	BA3 BU3 CO3 LA3 SO3 -	F1	F2
Test Code	Test Description					
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 (%)	12.5	12.5	12.5	12.5	12.5
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 Energy 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 applies to the entire load except where stated otherwise						
SPRO	Spouted/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), Heliotrope (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/Spiny Emex/ Three Corner Jack	1	1	1	1	1
BS4	TYPE(4): Bindweed (Field), Cutleaf Mignonette seeds or pods, Darnel (Drake Seed), Hexam Scent/Mellilot (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), Bromo 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 - Maximum 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 than 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 (length 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 grain 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 commercially 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 unless otherwise advised