

Sampling Guidelines

- 1) A minimum of 5 vertical probes must be taken from every bin-load tendered for delivery with at least 5 litres to be drawn .
- 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

Test Code	Commander Compass Latrobe Maximus Planet Scope Spartacus	MALTING BARLEY		BARLEY		
		CO1 CP1 LA1 MA1 PL1 SO1 SP1	CO2 CP2 LA2 MA2 PL2 SO2 SP2	BAR1	BAR2	BAR3
VARP	Varietal purity min (%) 2 row barley with a white aleurone layer of sound ripe merchantable condition	95	95	All 2 row varieties		
PRGR	Protein Content (%) Minimum	9	9	No Limit	No Limit	No Limit
	Protein Content (%) Maximum	12	12	No Limit	No Limit	No Limit
MOGR	Moisture max (%)	12.5	12.5	12.5	12.5	12.5
TWT	Test Weight min (kg/hl)	65	65	62.5	60	55
R250	Retention min (% by weight) above 2.5mm Agtator screen	70	62	No Limit	No Limit	No Limit
SCR5	Screenings max (% by weight) below 2.2mm Agtator screen	7	10	15	25	60
GMEN	Germinative Energy min (%) #	95	95	No Limit	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	No Limit	No Limit	No Limit
FALL	Falling Number min (seconds) Falling number result over-rides the visual assessment of Shot & Sprouted.	300	300	No Limit	No Limit	No Limit
RVA	Or RVA min (falling number is preferred and overrides RVA where available)	130	130	No Limit	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	Sprouted/Pre germinated Max (count per 100 grains) Falling number result over-rides the visual assessment of Shot & Sprouted. Split germ and/or a more advanced stage in which germ has grown	NIL	NIL	NIL	5	No Limit
SHOT	Shot maximum (count per 100 grains) Falling number result over-rides the visual assessment of Shot & Sprouted.	NIL	NIL	No Limit	No Limit	No Limit
FFUN	Dark tipped max (count per 100 grains)	10	10	No Limit	No Limit	No Limit
FFAG	Field Fungi (count per 100 grains)	5	5	No Limit	No Limit	No Limit
PSTN	Pink Fungal Staining max (count per half litre)	1	1	20	30	30
SKIN	Skinnings max (count per 100 grains)	15	15	No Limit	No Limit	No Limit
BIDB	Insect Damaged Barley max (count per half litre)	10	10	85	85	85
SPCL	Split / Cleaved Barley max (count per 100 grains)	1	1	No Limit	No Limit	No Limit
BRSH	Broken Grain max (% by weight per 100 grams)	2	2	5	5	10
DSTD	Distorted max (count per 100 grains)	5	5	10	10	20
GREE	Dry green or Sappy max (count per 100 grains)	1	1	No Limit	No Limit	No Limit
SVDA	Severely Damaged max (count per half litre) Burnt/Heat Damaged, Mould, Diseased/ Other Serious Visual Defects	1	1	2	5	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): Colocynthis, Field poppy, Horned Poppy, Jute, Long Headed Poppy, Mexican Poppy, New Zealand Spinach, Parthenium Weed** (QLD only), Saffron Thistle, Wild Poppy	8*	8*	8*	8*	12*
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 Head, Cape Tulip, Cotton Seed, Dodder, Noogoora Burr, Thornapple	2	2	2	2	2
BS3B	TYPE (3B): Vetch (commercial), Vetch (Tare)	4	4	4	10	20
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), Hexham Scent/Melilot (King Island)***, Hoary Cress, Mintweed, Nightshades, Paddy Melon, Skeleton Weed, Variegated Thistle	20	20	20	20	30
BS5	TYPE(5): Creeping Knapweed/Russian Knapweed, Pattersons Curse/Salvation Jane, Sesbania Pea	40	40	40	40	50
BS6	TYPE(6): Columbus Grass, Johnson Grass****	NIL	NIL	40	40	80
BS7A	TYPE(7a): Adzuki Beans, Broad Beans, Chickpeas, Clover, Medic Pods, Cowpea, Faba Beans, Field Peas, Lentils, Lupins, Onion Weed Pods, Maize (corn), Safflower, Soybean, Sunflower, and any other seeds or pods greater than 5mm in diameter.	1	1	10	20	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 Pods, Any other seed contaminant not specified in TYPE(1)-TYPE(7a) or in SFS	50	50	150	300	500
BS1A	WHEAT, CEREAL RYE, TRITICALE, RICE, CULTIVATED OATS	85	85	500	1500	2000
BS1B	Wild Oats, Wild Radish Pods	25	25	50	100	100
BBAL	Barley with Blue/Black coloured Aleurone Layer	NIL	NIL	100	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%	1.2%	2.0%	2.5%
	* Individual Seed Basis **Parthenium Weed is a NIL tolerance in NSW/VIC/SA *** Hexham Scent is acceptable if no tainting odour ****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 then already specified includes: Chaff, straw, backbone	1%	1%	1%	1%	1%
ERGC	Cereal Smut/Ergots max (count per half litre) Includes: Ball and Covered Smut, any Cereal Ergot	NIL	NIL	NIL	NIL	NIL
LSMT	Loose smut (weight in grams) Weight of all pieces per 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 weevils, pea weevils (dead only), 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)	1	1	1	4	10
ESAP	Earth max (5mm in diameter)	3	3	3	3	3
ESA	Sand max (Count per half litre) Individual grains	50	50	50	50	50
OBJM	Objectionable Matter max (entire load): Presence of meat meal, blood meal, fish meal, poultry offal meal or other animal proteins. Stick/Stubble, 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
GUMN	Gumnut (count per 2.5L): Whole or pieces of gumnut of any size and maturity level	1	1	1	1	1
PICK	Pickling Compounds or artificia colour 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 and CSG-21

Not to be assessed at Sample Stand unless otherwise advised

Prepared and issued by - Laboratory Coordinator.

GrainFlow Enquiries Toll Free

1800 4GRAIN