SA BARLEY STANDARDS 2019 - 2020

GrainFlow

THIS CHART IS INTENDED TO ACT AS A GUIDE ONLY

703.5 - SA Barley Standards 2019-2020 - Iss1 - September 2019

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

		MALTING BARLEY			BARLEY		
	Baudin Commander Compass Latrobe Planet Scope Spartacus Hindmarsh (HIND)	BA1 CO1 CM1 LA1 PL1 SO1 SP1 HIND	BA2 C02 CM2 LA2 PL2 SO2 SP2 -	CMSM SPSM -	F1	F2	F3
Test Code							
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 (%)**	13.5	13.5	13.5	13.5	13.5	13.5
PRGR	**Protein Content (%) Minimum**	9	9	9	No Limit	No Limit	No Limit
	Protein Content (%) Maximum	12	12	12.5	No Limit	No Limit	No Limit
TWT	**Test Weight min (kg/hl)**	65	65	62.5	62.5	60	55
R250	**Retention min (% by weight)** above 2.5mm Agtator screen	70	62	62	No Limit	No Limit	No Limit
SCR5	**Screenings max (% by weight)** below 2.2mm Agtator screen	7	10	12	15	25	60
GMEN	**Germinative Energy min (%) #**	95	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	98	No Limit	No Limit	No Limit
FALL	**Falling Number min (seconds)**	300	300	300	No Limit	No Limit	No Limit
RVA	Or **RVA min** (falling number is preferred and overrides RVA where available)	130	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 apples to the entire load except 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**	**No Limit**
SHOT	**Shot maximum (count per 100 grains)**	**NIL**	**NIL**	**NIL**	**No Limit**	**No Limit**	**No Limit**
FFUN	**Dark tipped max (count per 100 grains)**	**10**	**10**	**10**	**No Limit**	**No Limit**	**No Limit**
FFAG	**Field Fungi (count per 100 grains)**	**5**	**5**	**5**	**No Limit**	**No Limit**	**No Limit**
PSTN	**Pink Fungal Staining max (count per half litre)**	**1**	**1**	**1**	**20**	**30**	**30**
SKIN	**Skinnings max (count per 100 grains)**	**15**	**15**	**15**	**No Limit**	**No Limit**	**No Limit**
BIDB	**Insect Damaged Barley max (count per half litre)**	**10**	**10**	**10**	**85**	**85**	**85**
SPCL	**Split / Cleaved Barley max (count per 100 grains)**	**1**	**1**	**1**	**No Limit**	**No Limit**	**No Limit**
BRSH	**Broken Grain max (% by weight per 100 grams)**	**2**	**2**	**2**	**5**	**5**	**10**
DSTD	**Distorted max (count per 100 grains)**	**5**	**5**	**5**	**10**	**10**	**20**
GREE	**Dry green or Sappy max (count per 100 grains)**	**1**	**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**	**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):** 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***	**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**	**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**	**2**
BS3B	**TYPE (3B):** Vetch (commercial), Vetch (Tare)	**4**	**4**	**4**	**4**	**10**	**20**
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**	**1 Pod / 4 Seeds**
BS3D	**TYPE(3D):** Double Gee/Spiney Emex/ Three Corner Jack	**1**	**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**	**30**
BS5	**TYPE(5):** Creeping Knapweed/Russian Knapweed, Patersons Curse/Salvation Jane, Sesbania Pea	**40**	**40**	**40**	**40**	**40**	**50**
BS6	**TYPE(6):** Columbus Grass, Johnson Grass****	**NIL**	**NIL**	**NIL**	**40**	**40**	**80**
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**	**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**	**500**
BS1A	**WHEAT, CEREAL RYE, TRITICALE, RICE, CULTIVATED OATS**	**85**	**85**	**150**	**500**	**1500**	**2000**
BS1B	**Wild Oats, Wild Radish**	**25**	**25**	**25**	**50**	**100**	**100**
BBAL	**Barley with Blue/Black Aleurone Layer**	**NIL**	**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%**	**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 - 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%**	**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**	**NIL**
LSMT	**Loose smut (weight in grams) Weight of all pieces per half litre**	**0.1**	**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**	**0.5cm**
SGIL	**Stored Grain Insects and Pea Weevils: Live max (entire load)**	**NIL**	**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**	**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**	**10**
SNAL	**Snails max (Count per half litre)**	**1**	**1**	**1**	**1**	**4**	**10**
ESAP	**Earth max (5mm in diameter)**	**3**	**3**	**3**	**3**	**3**	**3**
ESA	**Sand max (Count per half litre) Individual grains**	**50**	**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**	**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**	**4**
PICK	**Pickled Max (entire Load)**	**NIL**	**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**	**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

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