# BARLEY STANDARDS 2017 - 2018

GrainFlow

THIS CHART IS INTENDED TO ACT AS A GUIDE ONLY

703.5 - Barley Standards 2017-2018 - Iss1 - September 2017

**Sampling Guidelines**

1) A minimum of 4 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 | | MALTING BARLEY | | | FEED BARLEY | |
|---|---|---|---|---|---|---|
| | Baudin<br>Buloke<br>Commander<br>Compass<br>Latrobe<br>Scope<br>Spartacus<br>Hindmarsh (HIND) | BA1<br>BU1<br>CO1<br>CP1<br>LA1<br>SO1<br>SP1<br>HIND | BA2<br>BU2<br>C02<br>CP2<br>LA2<br>SO2<br>SP2<br>- | BA3<br>BU3<br>CO3<br>CP3<br>LA3<br>SO3<br>SP3<br>- | F1 | F2 |
| 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)<br>Note: **NIL** tolerance apples to the entire load except where stated otherwise | | | | | |
| **SPRO** | **Sprouted/Pre germinated Max (count per 100 grains)**<br>**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** | **Dark tipped max (count per 100 grains)** | **10** | **10** | **10** | **No Limit** | **No Limit** |
| **FFAG** | **Field Fungi (count per 100 grains)** | **5** | **5** | **5** | **No Limit** | **No Limit** |
| **PSTN** | **Pink Fungal Staining max ( count per half litre)** | **1** | **1** | **1** | **20** | **30** |
| **SKIN** | **Skinnings max ( count per 100 grains)** | **15** | **15** | **15** | **No Limit** | **No Limit** |
| **BIDB** | **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** |
| **DSTD** | **Distorted max (count per 100 grains)** | **5** | **5** | **5** | **10** | **10** |
| **GREE** | **Dry green or Sappy max (count per 100 grains)** | **1** | **1** | **1** | **No Limit** | **No Limit** |
| **SVDA** | **Severely Damaged max (count per half litre) Burnt/Heat Damaged, Mould, Diseased/ Other Serious Visual Defects** | **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<br>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/Black Aleurone Layer** | **NIL** | **NIL** | **NIL** | **100** | **100** |
| SFS | **Small Foreign Seeds max** (% by weight)<br>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<br>*** 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<br>Note: **NIL** tolerance applies to the entire load except where otherwise stated | | | | | |
| **FM** | **Foreign Material max (% by weight per half litre)**<br>**Other then already specified includes: Chaff, straw, backbone** | **1%** | **1%** | **1%** | **1%** | **1%** |
| **ERGC** | **Cereal Smut/Ergots max (count per half litre)**<br>**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 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)** | **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)**<br>**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)**<br>**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

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