

# WHEAT STANDARDS 2018 - 2019

THIS CHART IS INTENDED TO ACT AS A GUIDE ONLY

703.4 - Wheat Standards 2018-2019 - Iss1 - September 2018

## 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  | Binned grade  | APH2              | H1                | H2                | AUH2               | APW1              | ASW1              | HPS1               | AGP1               |
|--|---|-------------------|-------------------|-------------------|--------------------|-------------------|-------------------|--------------------|--------------------|
| MOGR   | Moisture max (%)  | 12.5              | 12.5              | 12.5              | 12.5               | 12.5              | 12.5              | 12.5               | 12.5               |
| PRGR   | Protein Content (%) Minimum   | 13.0              | 13.0              | 11.5              | 11.5               | 10.5              | No limit          | 11.5               | No limit           |
| TWT  | Test Weight min (kg/hl)   | 76                | 76                | 76                | 71                 | 76                | 76                | 68                 | 68                 |
| UNMB   | Screenings max (% by weight)  | 5.0               | 5.0               | 5.0               | 10.0               | 5.0               | 5.0               | 25.0               | 10.0               |
| UNM  | Unmillable Material Above the Screen max (% by weight)<br>Includes whiteheads (with grains removed), chaff, backbone, Wild Radish, Milk Thistle, other seedpods not listed  | 0.6               | 0.6               | 0.6               | 1.2                | 0.6               | 0.6               | 2.6                | 1.2                |
| <b>Defective grains- Maximum tolerance % by count per 300 Grain Sample unless otherwise stated (1% = 3 grains). Sample to be taken from above the 2mm screen.</b><br>Note: NIL tolerance applies to the entire load  |   |                   |                   |                   |                    |                   |                   |                    |                    |
| FALL   | Falling Number min (seconds)  | 350               | 300               | 300               | 250                | 300               | 300               | 250                | 200                |
| SPRO   | Sprouted Grains max (% by count)<br>Sprouted Kernels are those in which the covering of the germ is split and any further advanced stage of growth to the extent of the germ having grown or shot<br>Note: The NIL tolerance for sprouted grain doesn't apply if a Falling Number test is conducted.  | NIL               | NIL               | NIL               | NIL                | NIL               | NIL               | NIL                | NIL                |
| FFUN   | Stained Grains max (% by count)<br>Grains with a mould like discolouration on less than 50 % of the entire grain surface (Does not include Storage Moulds)<br>Includes: Blackpoint, Blacktip and staining due to moist plant material   | 5%<br>(15 grains) | 5%<br>(15 grains) | 5%<br>(15 grains) | 15%<br>(45 grains) | 5%<br>(15 grains) | 5%<br>(15 grains) | 10%<br>(30 grains) | 15%<br>(45 grains) |
| PFUN   | Pink Stained max (% by count) affected by the fungi <i>Fusarium</i> , <i>Eppicoccum</i> or <i>Drechslera</i> spp.   | 2%<br>(6 grains)  | 2%<br>(6 grains)  | 2%<br>(6 grains)  | 2%<br>(6 grains)   | 2%<br>(6 grains)  | 2%<br>(6 grains)  | 3%<br>(9 grains)   | 5%<br>(15 grains)  |
| WGDH   | White Grain Disorder/ Head Scab/ Flaked Grain max (% by count)  | 1% (3grains)      | 1% (3grains)      | 1% (3grains)      | 1% (3grains)       | 1% (3grains)      | 1% (3grains)      | 1% (3grains)       | 1% (3grains)       |
| FFAG   | Field Fungi Affected Grains max (count per half litre)<br>Grains with the seed coat greater than 50% discoloured with a mouldy substance (Does not include Storage Moulds)  | 10                | 10                | 10                | 10                 | 10                | 10                | 20                 | 10                 |
| GREE   | Dry Green or Sappy (% by count)   | 1%<br>(3 grains)  | 1%<br>(3 grains)  | 1%<br>(3 grains)  | 2%<br>(6 grains)   | 1%<br>(3 grains)  | 1%<br>(3 grains)  | 2%<br>(6 grains)   | 5%<br>(15 grains)  |
| DSTD   | Distorted Grains max (% by count)   | 1%<br>(3 grains)  | 1%<br>(3 grains)  | 1%<br>(3 grains)  | 2%<br>(6 grains)   | 1%<br>(3 grains)  | 1%<br>(3 grains)  | 2%<br>(6 grains)   | 10%<br>(30 grains) |
| SVDA   | Severely Damaged max (count per half litre) Heat Damaged or Burnt, Mould or Other Serious Visual Defects  | 1                 | 1                 | 1                 | 1                  | 1                 | 1                 | 1                  | 1                  |
| SMUT   | Grain Infected With Ball Smut (Also Stinking Smut or Bunt) max (entire load)  | NIL               | NIL               | NIL               | NIL                | NIL               | NIL               | NIL                | NIL                |
| DAMI   | Insect Damaged Grains max (% by count)  | 1%                | 1%                | 1%                | 1%                 | 1%                | 1%                | 2%                 | 2%                 |
| <b>Foreign Seed Contaminants</b><br>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. |   |                   |                   |                   |                    |                   |                   |                    |                    |
| WS1  | Colocynth, Double Gees/Spiny Emex/Three Cornered Jack, Jute, Long Head Poppy, Mexican Poppy, New Zealand Spinach, Opium Poppy, Parthenium Weed**, Poppy (Field), Poppy (Horned), Wild Poppy   | 8*                | 8*                | 8*                | 8*                 | 8*                | 8*                | 8*                 | 8*                 |
| WS2  | Castor Oil Plant, Coriander, Crow Garlic/Wild Garlic, Darling Pea, Peanut seeds and pods, Ragweed, Rattlepods, Starburr, St Johns Wort  | NIL               | NIL               | NIL               | NIL                | NIL               | NIL               | NIL                | NIL                |
| WS3A   | Bathurst Burr, Bellvine, Branched Broomrape, Bulls Head/Caltrop/Cats Heads, Cape Tulip, Cottonseed, Dodder  | 2                 | 2                 | 2                 | 2                  | 2                 | 2                 | 2                  | 2                  |
| WS3B   | Noogoora Burr, Thornapple   | 2                 | 2                 | 2                 | 2                  | 2                 | 2                 | 2                  | 2                  |
| WS3C   | Vetch (Tare), Vetch (Commercial)  | 4                 | 4                 | 4                 | 4                  | 4                 | 4                 | 4                  | 4                  |
| WS3C   | Heliotrope (Blue), Heliotrope (Common)  | 2 Pods/ 8 Seeds   | 2 Pods/ 8 Seeds   | 2 Pods/ 8 Seeds   | 2 Pods/ 8 Seeds    | 2 Pods/ 8 Seeds   | 2 Pods/ 8 Seeds   | 2 Pods/ 8 Seeds    | 2 Pods/ 8 Seeds    |
| WS4  | Bindweed(Field), Cutleaf Mignonette (seeds or pods), Darnel (Drake Seed), Hexham Scent/Meliot (King Island)***<br>Hoary Cress, Mintweed, Night Shades, Paddy Melon, Skeleton Weed, Variegated Thistle   | 20                | 20                | 20                | 20                 | 20                | 20                | 20                 | 20                 |
| WS5  | Knapweed (Creeping/Russian), Patersons Curse/Salvation Jane, Sesbania Pea   | 40                | 40                | 40                | 40                 | 40                | 40                | 40                 | 40                 |
| WS6  | Columbus Grass, Johnson Grass, Saffron Thistle.   | 10                | 10                | 10                | 50                 | 10                | 10                | 50                 | 50                 |
| WS7A   | Adzuki Beans, Broad Beans, Chickpeas, Corn (Maize), Cowpea, Faba Beans, Lentils, Lupins, Onion Weed Pods, Peas (Field), Safflower, Soybean, Sunflower and any other seeds or pods greater than 5mm diameter   | 1                 | 1                 | 1                 | 10                 | 1                 | 1                 | 10                 | 10                 |
| WS7B   | Barley (2 row), Barley (6 row), Bindweed (Australian), Bindweed (Black), Durum (Unlimited in FEED), Oats (Black/Wild), Oats (Sand), Oats (Common), Red/Spring Feed Wheats (Unlimited in FEED), Rice, Rye (Cereal), Ryegrass on Stalk, Sorghum, Triticale, Turnip Weed and any other seeds not specified in Types (1) to (7a) or SFS that remain above 2.0mm screen after Screening process. | 50                | 50                | 50                | 150                | 50                | 50                | 150                | 150                |
| SFS  | Small Foreign Seeds (SFS) max (% by weight) All Foreign Seeds not specified in Types 1-7(b) that fall below the 2.0mm screen during the Screenings process  | 0.6               | 0.6               | 0.6               | 1.2                | 0.6               | 0.6               | 1.2                | 1.2                |
| * Individual Seed Basis      **QLD only, NIL tolerance in NSW, VIC & SA      *** Hexham Scent is only acceptable if no tainting odour is present   |   |                   |                   |                   |                    |                   |                   |                    |                    |
| Other contaminants - Maximum tolerance per half litre unless otherwise stated<br>Note: NIL tolerance applies to the entire load except where otherwise stated  |   |                   |                   |                   |                    |                   |                   |                    |                    |
| PICK   | Pickling Compound max (entire load)   | NIL               | NIL               | NIL               | NIL                | NIL               | NIL               | NIL                | NIL                |
| CHEM   | Chemicals Not Approved for Grain max (entire load)  | NIL               | NIL               | NIL               | NIL                | NIL               | NIL               | NIL                | NIL                |
| ERGR   | Ergot of Ryegrass max (length in cm when pieces are aligned per half litre)   | 2cm               | 2cm               | 2cm               | 2cm                | 2cm               | 2cm               | 2cm                | 2cm                |
| ERGW   | Ergot of Wheat max (count per half litre) Pieces or whole affected kernel   | 1                 | 1                 | 1                 | 1                  | 1                 | 1                 | 1                  | 1                  |
| SGIL   | Stored Grain Insects and Pea Weevils - Live max (entire load) All life stages   | NIL               | NIL               | NIL               | NIL                | NIL               | NIL               | NIL                | NIL                |
| INLG   | Field Insects (Large): All others max (count per half litre) Includes Rutherglen bugs, ladybirds, grasshoppers, locusts, sitona weevils, wood bugs & pea weevil (dead only)   | 3                 | 3                 | 3                 | 3                  | 3                 | 3                 | 3                  | 3                  |
| INSM   | Field Insects (Small): (count per half litre) Includes all species of aphid, mites & stored grain insects (dead only)   | 10                | 10                | 10                | 10                 | 10                | 10                | 10                 | 10                 |
| SNAL   | Snails (Live or Dead) max (count per half litre)  | 1                 | 1                 | 1                 | 1                  | 1                 | 1                 | 5                  | 10                 |
| EAR  | Earcockle max (number per half litre)   | 10                | 10                | 10                | 10                 | 10                | 10                | 10                 | 15                 |
| LSMT   | Loose Smut max (pieces per half litre) Pieces of backbone   | 3                 | 3                 | 3                 | 3                  | 3                 | 3                 | 3                  | 3                  |
| ESA  | Sand max (count per half litre) Individual grains   | 20                | 20                | 20                | 50                 | 20                | 20                | 50                 | 50                 |
| ESAP   | Earth (5mm max in diameter)   | 1                 | 1                 | 1                 | 1                  | 1                 | 1                 | 1                  | 1                  |
| STON   | Stones (g per 2.5L) Maximum weight of all stones above 2.0mm screen per 2.5 L   | 4                 | 4                 | 4                 | 4                  | 4                 | 4                 | 4                  | 4                  |
| OBJM   | Objectionable Material max (entire load)<br>Includes sticks, gravel, odour and other foreign material such as animal excreta, animal carcasses, glass, addition of water, concrete and metal  | NIL               | NIL               | NIL               | NIL                | NIL               | NIL               | NIL                | NIL                |
| ONOM   | Other Non-Objectionable Material max (% by weight)<br>Includes fine material (soil, dust and minerals), pieces snail shell, sticks less than 1cm long and 0.5cm diameter, other non-vegetative material   | 0.1               | 0.1               | 0.1               | 0.1                | 0.1               | 0.1               | 0.1                | 0.1                |

WHEAT STANDARDS 2018 - 2019



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703.4a - Supplementary Wheat Standards 2018-2019 - Iss1 - December 2018

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.

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 only available where announced

| Test Code | Binned grade   | SFW1               | SFW1 (SA)          | FED1                | FED2                | AH9                | AH9 (SA)           |
|-----------|--|--------------------|--------------------|---------------------|---------------------|--------------------|--------------------|
| MOGR      | Moisture max (%)   | 12.5               | 13.5               | 12.5                | 12.5                | 12.5               | 13.5               |
| PRGR      | Protein Content (%) Minimum  | NA                 | NA                 | NA                  | NA                  | 11.5               | 11.5               |
| TWT       | Test Weight min (kg/hl)  | 70                 | 70                 | 62                  | 62                  | 68                 | 68                 |
| UNMB      | Screenings max (% by weight)   | 10                 | 10                 | 15                  | 15                  | 25                 | 25                 |
| UNM       | Unmillable Material Above the Screen (% by weight)<br>Includes whiteheads (with grains removed), chaff, backbone, Wild Radish, Milk Thistle, other seedpods  | 1.2                | 1.2                | 2.6                 | 2.6                 | 2.6                | 2.6                |
|           | Defective grains- Maximum tolerance % by count per 300 Grain Sample unless otherwise stated (1% = 3 grains).<br>Note: NIL tolerance applies to the entire load   |                    |                    |                     |                     |                    |                    |
| FALL      | Falling Number min (seconds)   | NA                 | NA                 | NA                  | NA                  | NA                 | NA                 |
| SPRO      | Sprouted Grains max (% by count)<br>Sprouted Kernels are those in which the covering of the germ is split and any further advanced stage of growth to the extent of the germ having grown or shot  | NA                 | NA                 | NA                  | NA                  | NA                 | NA                 |
| FFUN      | Stained Grains max (% by count)<br>Grains with a mould like discoloration on less than 50 % of the entire grain surface (Does not include Storage Moulds)<br>Includes: Blackpoint, Blacktip and staining due to moist plant material   | 15%<br>(45 grains) | 15%<br>(45 grains) | 50%<br>(150 grains) | 50%<br>(150 grains) | 25%<br>(75 grains) | 25%<br>(75 grains) |
| PFUN      | Pink Grain max (% by count) affected by the fungi <i>Fusarium</i> , <i>Eppicoccum</i> or <i>Drechslera</i> spp.  | 5%<br>(15 grains)  | 5%<br>(15 grains)  | 5%<br>(15 grains)   | 5%<br>(15 grains)   | 5%<br>(15 grains)  | 5%<br>(15 grains)  |
| WGDH      | White Grain Disorder/Head Scab/Flaked Grain max (% by count)   | 1%<br>(3 grains)   | 1%<br>(3 grains)   | 1%<br>(3 grains)    | 1%<br>(3 grains)    | 1%<br>(3 grains)   | 1%<br>(3 grains)   |
| FFAG      | Field Fungi Affected Grains max (count per half litre)<br>Grains with the seed coat is greater than 50% discoloration with a mouldy substance (Does not include Storage Moulds)  | 10 grains          | 10 grains          | 40 grains           | 200 grains          | 40 grains          | 40 grains          |
| GREE      | Dry Green, Sappy Green (% by count)  | 10%<br>(30 grains) | 10%<br>(30 grains) | NA                  | NA                  | NA                 | NA                 |
| DSTD      | Distorted Grains max (% by count)  | 10%<br>(30 grains) | 10%<br>(30 grains) | NA                  | NA                  | NA                 | NA                 |
| SVDA      | Severely Damaged (count per half litre) Heat Damaged or Burnt, Mould or other Serious Visual Defects   | 1                  | 1                  | 5                   | 5                   | 5                  | 5                  |
| SMUT      | Grain Infected With Ball Smut (Also Stinking Smut or Bunt) ( <i>Tilletia caries</i> ) max (entire load)  | NIL                | NIL                | NIL                 | NIL                 | NIL                | NIL                |
| DAMI      | Insect Damaged Grains max (% by count)   | 2%                 | 2%                 | 4%                  | 4%                  | 2%                 | 2%                 |
|           | <b>Foreign Seed Contaminants</b><br>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.                                   |                    |                    |                     |                     |                    |                    |
| WS1       | Colocynthis, Double Gees/Spiny Emex/Three Cornered Jack, Jute, Long Head Poppy, Mexican Poppy, New Zealand Spinach, Opium Poppy, Parthenium Weed**, Poppy (Field), Poppy (Horned), Wild Poppy  | 8*                 | 8*                 | 8*                  | 8*                  | 8*                 | 8*                 |
| WS2       | Branched Broomrape, Castor Oil Plant, Coriander, Crow Garlic/Wild Garlic, Darling Pea, Ragweed, Rattlepods, Starburr, St Johns Wort  | NIL                | NIL                | NIL                 | NIL                 | NIL                | NIL                |
| WS3A      | Bathurst Burr, Bulls Head/Caltrop/Cats Heads, Cape Tulip, Cotton Seed, Dodder, Noogoora Burr, Thornapple   | 2                  | 2                  | 2                   | 2                   | 2                  | 2                  |
| WS3B      | Vetch (Tare), Vetch (Commercial)   | 4                  | 4                  | 4                   | 4                   | 4                  | 4                  |
| WS3C      | Heliotrope (Blue), Heliotrope (Common)   | 2 Pods/ 8 Seeds    | 2 Pods/ 8 Seeds    | 2 Pods/ 8 Seeds     | 2 Pods/ 8 Seeds     | 2 Pods/ 8 Seeds    | 2 Pods/ 8 Seeds    |
| WS4       | Bindweed (Field), Cutleaf Mignonette, Darnel (Drake Seed), Hexham Scent/Melilot (King Island)***, Hoary Cress, Mintweed, Night Shades, Paddy Melon, Skeleton Weed, Variegated Thistle  | 20                 | 20                 | 20                  | 20                  | 20                 | 20                 |
| WS5       | Knapweed (Creeping/Russian), Pattersons Curse/Salvation Jane, Sesbania Pea   | 40                 | 40                 | 40                  | 40                  | 40                 | 40                 |
| WS6       | Columbus Grass, Johnson Grass, Saffron Thistle.  | 50                 | 50                 | 50                  | 50                  | 50                 | 50                 |
| WS7A      | Chickpeas, Cowpea, Faba Beans, Lentils, Lupin, Maize (Corn), Peas (Field), Safflower, Soybean, Sunflower and any other seeds or pods >5mm in diameter  | 10                 | 10                 | 100                 | 100                 | 50                 | 50                 |
| WS7B      | Barley (2 row), Barley (6 row), Bindweed (Australian), Bindweed (Black), Durum (Unlimited in FEED), Oats (Black/Wild), Oats (Sand), Oats (Common), Red/Spring Feed Wheats (Unlimited in FEED), Rice, Rye (Cereal), Sorghum, Triticale, Turnip Weed, Any other seeds not specified in Types (1) to (7a) or SFS. | 150                | 150                | 400                 | 400                 | 200                | 200                |
| SFS       | Small Foreign Seeds (SFS) max (% by weight)  | 1.2                | 1.2                | 1.2                 | 1.2                 | 1.2                | 1.2                |
|           | * Individual Seed Basis      **QLD Only, NIL tolerance in NSW, VIC & SA      *** Hexham Scent is only acceptable if no tainting odour is present   |                    |                    |                     |                     |                    |                    |
|           | Other contaminants - Maximum tolerance per half litre unless otherwise stated<br>Note: NIL tolerance applies to the entire load except where otherwise stated  |                    |                    |                     |                     |                    |                    |
| PICK      | Pickling Compound max (entire load)  | NIL                | NIL                | NIL                 | NIL                 | NIL                | NIL                |
| CHEM      | Chemicals Not Approved for Grain max (entire load)   | NIL                | NIL                | NIL                 | NIL                 | NIL                | NIL                |
| ERGR      | Ergot of Ryegrass max (length in cm when pieces are aligned per half litre)  | 2cm                | 2cm                | 2cm                 | 2cm                 | 2cm                | 2cm                |
| ERGW      | Ergot of Wheat max (count per half litre)  | 1                  | 1                  | 1                   | 1                   | 1                  | 1                  |
| SGIL      | Stored Grain Insects and Pea Weevils :Live max (entire load)   | NIL                | NIL                | NIL                 | NIL                 | NIL                | NIL                |
| INLG      | Field Insects (Large): All others max (count per half litre)   | 3                  | 3                  | 3                   | 3                   | 3                  | 3                  |
| INSM      | Field Insects (Small): All others max (count per half litre)   | 10                 | 10                 | 10                  | 10                  | 10                 | 10                 |
| SNAL      | Snails (Live or Dead) max (count per half litre)   | 10                 | 10                 | 10                  | 10                  | 10                 | 10                 |
| EAR       | Earcocle max (number of individual galls per half litre)   | 15                 | 15                 | 20                  | 20                  | 20                 | 20                 |
| LSMT      | Loose Smut max (pieces per half litre)   | 3                  | 3                  | 3                   | 3                   | 3                  | 3                  |
| ESA       | Sand max (count per half litre)  | 50                 | 50                 | 50                  | 50                  | 50                 | 50                 |
| EART      | Earth - 5mm max diameter (count per half litre)  | 3                  | 3                  | 6                   | 6                   | 6                  | 6                  |
| STON      | Stones (g per 2.5L) Maximum weight of all stones above 2.0mm screen per 2.5 L  | 4                  | 4                  | 4                   | 4                   | 4                  | 4                  |
| OBJM      | Objectionable Material max (entire load)<br>Includes sticks, stones, gravel, odour and other foreign material such as animal excreta, glass, addition of water, concrete and metal   | NIL                | NIL                | NIL                 | NIL                 | NIL                | NIL                |
| ONOM      | Other Non-Objectionable Material max (% by weight)<br>Includes fine material (dust and minerals), pieces snail shell, sticks less than 1cm long and 0.5cm diameter, other non-vegetative material  | 0.1                | 0.1                | 0.2                 | 0.2                 | 0.1                | 0.1                |