WHEAT QUALITY STANDARDS 2012-2013
WHEAT CHART

THIS CHART IS INTENDED TO ACT AS A GUIDE ONLY
REFER TO GTA WHEAT STANDARDS 2012-13 FOR CONFIRMATION

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.
5) Moisture and protein assessment is to be made by an appropriate field instrument calibrated against approved reference methods.
6) Refer to the GrainCorp Sample Stand Manual 2012-13 for detailed assessment procedures and varietal listings.

Binning Guidelines

Varietal restrictions apply to the grades on this chart. A variety must not be binned above its maximum allowable varietal classification (APH2 > H1/H2 > APW1 > ASW1 > AGP1 > FED1).
Only APH2 and H1/H2 varieties may be binned in AUH2.
The varieties Lorikeet, Rosella and Sunsoft 98 must not be binned above AGP1 unless there is an ASWS, ANW1 or ANW2 segregation and they are acceptable varieties at that site.
The varieties Anlace, Barham, Bowie, Longreach Impala, Longreach Orion, QAL2000, QALBis, Snipe, Tatiara, Thornbill, Wyuna and Yenda must not be binned above AGP1 unless there is a SFE1, SFE2, SGP1 or SGP2 segregation and they are acceptable varieties at that site.

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	APH2	H1	H2	APW1	ASW1	AUH2	AGP1	HPS1	FED1
MOGR	**Moisture Max (%)**	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
PRGR	**Protein (%) Minimum**	13.0	13.0	11.5	10.5	No Limit	11.5	No Limit	11.5	No Limit
TWT	**Test Weight Min (kg/hl)**	74	74	74	74	74	71	68	68	62
SCRN	**Screenings (Unmillable Material Below the Screen) Max (% by weight)** Material passing through a 2mm slotted screen after 40 shakes	5.0	5.0	5.0	5.0	5.0	10.0	10.0	25.0	15.0
UNM	**Unmillable Material Above the Screen Max (% by weight)** Material other than wheat kernels remaining on top of a 2.0mm slotted screen after 40 shakes Includes whiteheads (with grains removed), chaff, backbone, Wild Radish, Milk Thistle, other seedpods	0.6	0.6	0.6	0.6	0.6	1.2	1.2	2.6	2.6
	Defective Grains – Maximum tolerance % by count per 300 Grain Sample unless otherwise stated (1% = 3 grains). Note: **NIL** tolerance applies to the entire load except where stated otherwise.									
FALL	**Falling Number Min (seconds)**	350	300	300	300	300	250	200	250	No Limit
SPRO	**Sprouted Max (% by count)** 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 **Note: The NIL tolerance for sprouted grains does not apply if a Falling Number analysis is conducted**	**NIL**	**NIL**	**NIL**	**NIL**	**NIL**	**NIL**	**NIL**	**NIL**	No Limit
STAN	**Total Stained Max (% by count)** Grains with a fungal-like discolouration on less than 50% of the entire grain surface (Does not include Storage Moulds) Includes: Blackpoint, Blacktip, Staining due to Moist Plant Material	5% (15 grains)	5% (15 grains)	5% (15 grains)	5% (15 grains)	5% (15 grains)	15% (45 grains)	15% (45 grains)	10% (30 grains)	50% (150 grains)
PFUN	Included in Stained **Pink Stained Max (% by count)** affected by the fungi *Fusarium, Eppicoccum* or *Drechslera* spp. Grains that are pink but also contain a white to grey fungal like discolouration over more than 50% of the seed coat surface are to be classified as "White Grain Disorder/Head Scab"	2% (6 grains)	2% (6 grains)	2% (6 grains)	2% (6 grains)	2% (6 grains)	2% (6 grains)	5% (15 grains)	3% (9 grains)	5% (15 grains)
WGDH	Included in Stained **White Grain Disorder/Head Scab Max (% by count)**	1% (3 grains)	1% (3 grains)	1% (3 grains)	1% (3 grains)	1% (3 grains)	1% (3 grains)	1% (3 grains)	1% (3 grains)	1% (3 grains)
FFUN	**Field Fungi Max (count per half litre)** Grains that are 50% or less discoloured are to be classified as Stained. Grains that are soft and/or emit a mouldy odour are to be classified as Rotted.	10	10	10	10	10	10	10	20	40
GREE	**Dry Green or Sappy Max (% by count)**	1% (3 grains)	1% (3 grains)	1% (3 grains)	1% (3 grains)	1% (3 grains)	2% (6 grains)	5% (15 grains)	2% (6 grains)	No Limit
FTDG	**Frost Damaged Max (% by count)**	1% (3 grains)	1% (3 grains)	1% (3 grains)	1% (3 grains)	1% (3 grains)	2% (6 grains)	10% (30 grains)	2% (6 grains)	No Limit
BURN	**Heat Damaged, Bin Burnt, Storage Mould Affected or Rotted Max (entire load)**	**NIL**	**NIL**	**NIL**	**NIL**	**NIL**	**NIL**	**NIL**	**NIL**	**NIL**
SMUT	**All Smuts (except Loose Smut) Max (entire load)** Includes: Ball Smut, Stinking Smut, Bunt, Covered Smut	**NIL**	**NIL**	**NIL**	**NIL**	**NIL**	**NIL**	**NIL**	**NIL**	**NIL**
TAKE	**Takeall Affected Max (% by count)**	1% (3 grains)	1% (3 grains)	1% (3 grains)	1% (3 grains)	1% (3 grains)	2% (6 grains)	1% (3 grains)	2% (6 grains)	No Limit
DAMI	**Insect Damaged Max (% by count)**	1% (3 grains)	1% (3 grains)	1% (3 grains)	1% (3 grains)	1% (3 grains)	1% (3 grains)	2% (6 grains)	2% (6 grains)	4% (12 grains)
ARTD	**Over-Dried Damaged Max (% by count)**	**NIL**	**NIL**	**NIL**	**NIL**	**NIL**	**NIL**	**NIL**	**NIL**	No Limit
	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.									
WS1	**TYPE(1):** 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*	8*
WS2	**TYPE(2):** Castor Oil Plant, Coriander, Crow Garlic/Wild Garlic, Darling Pea, Peanut Seeds & Pods, Ragweed, Rattlepods, Starburr, St Johns Wort	**NIL**	**NIL**	**NIL**	**NIL**	**NIL**	**NIL**	**NIL**	**NIL**	**NIL**
WS3A	**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	2	2	2
WS3B	**TYPE(3b):** Vetch (Tare), Vetch (Commercial)	4	4	4	4	4	4	4	4	4
WS3C	**TYPE(3c):** Heliotrope (Blue), Heliotrope (Common), Note included in the Type are tolerances for seeds or pods.	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	2 Pods / 8 Seeds
WS4	**TYPE(4):** 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	20	20	20
WS5	**TYPE(5):** Knapweed (Creeping/Russian), Pattersons Curse/Salvation Jane, Sesbania Pea	40	40	40	40	40	40	40	40	40
WS6	**TYPE(6):** Columbus Grass, Johnson Grass, Saffron Thistle	10	10	10	10	10	50	50	50	50
WS7A	**TYPE(7a):** Broad Beans, Chickpeas, Cowpea, Faba Beans, Lentils, Lupin, Maize (Corn), Peas (Field), Safflower, Soybean, Sunflower, Any other seeds or pods greater than 5mm diameter	1	1	1	1	1	10	10	10	100
WS7B	**TYPE(7b):** 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 seed not specified in TYPE(1) to TYPE(7a) or SFS **Note: that Wild Radish pods and Milk Thistle pods are not classified as Foreign Seeds but are defined as Unmillable Material Above the Screen**	50	50	50	50	50	150	150	150	400
SFS	**Small Foreign Seeds max (% by weight)** Foreign seeds not specified in TYPE(1)-TYPE(7b) falling below 2mm agtator screen	0.6%	0.6%	0.6%	0.6%	0.6%	1.2%	1.2%	1.2%	1.2%
	*Individual Seed Basis ***Hexham Scent is only acceptable if no tainting odour is present **Parthenium Weed is a **NIL** tolerance in NSW/VIC/SA									
	Other Contaminants – Maximum tolerance per half litre unless otherwise stated. Note: **NIL** tolerance applies to the entire load except where stated otherwise.									
PICK	**Pickling Compounds Max (entire load)**	**NIL**	**NIL**	**NIL**	**NIL**	**NIL**	**NIL**	**NIL**	**NIL**	**NIL**
CHEM	**Chemicals Not Approved for Wheat Max (entire load)**	**NIL**	**NIL**	**NIL**	**NIL**	**NIL**	**NIL**	**NIL**	**NIL**	**NIL**
ERGR	**Ryegrass Ergot Max (length in cm when pieces are aligned per half litre)**	2cm	2cm	2cm	2cm	2cm	2cm	2cm	2cm	2cm
ERGW	**Cereal Ergot Max (count per half litre)**	1	1	1	1	1	1	1	1	1
LIVE	**Stored Grain Insects and Pea Weevils: Live max (entire load)**	**NIL**	**NIL**	**NIL**	**NIL**	**NIL**	**NIL**	**NIL**	**NIL**	**NIL**
INLG	**Field Insects – Large, dead or alive (count per half litre)** Includes Desiantha Weevil, Hairy Fungus Beetle, Pea Weevil, Sitona Weevil, Rutherglen bugs, ladybirds, grasshoppers and wood bugs, whole or parts thereof These are insect contaminants of grain that do not cause damage to stored grains	3	3	3	3	3	3	3	3	3
INSM	**Field Insects – Small, dead or alive (count per half litre)** Includes all species of aphid, minute mould beetle, mites & stored grain insects (dead only) These are insect contaminants of grain that do not cause damage to stored grains	10	10	10	10	10	10	10	10	10
SNAL	**Snails (Live or Dead) Max (count per half litre)**	1	1	1	1	1	1	10	5	10
EAR	**Earcockle Max (count per half litre)**	10	10	10	10	10	10	15	10	50
LSMT	**Loose Smut Max (count per half litre)**	3	3	3	3	3	3	3	3	3
SAND	**Sand Max (count per half litre)**	20	20	20	20	20	50	50	50	50
EART	**Earth (5mm max diameter) Max (count per half litre)**	1	1	1	1	1	3	3	1	6
OBJM	**Objectionable Material Max (entire load)** Includes sticks, stones, gravel, odour, tainting agents and other foreign material such as animal excreta, animal meal or carcasses, glass, concrete and metal	**NIL**	**NIL**	**NIL**	**NIL**	**NIL**	**NIL**	**NIL**	**NIL**	**NIL**
OFM	**Other Foreign Material Max (% by weight)** 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%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.2%

This chart is based on Grain Trade Australia (GTA) standards CSG-100, CSG-101, CSG-102, CSG-103, CSG-105, CSG-106, CSG-107, CSG-109 and CSG-150
Not to be assessed at Sample Stand unless otherwise advised
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