



GrainCorp

BARLEY STANDARDS 2020-2021

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Issued on 01 August 2020

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	Commander Compass Gairdner La Trobe RGT Planet Scope Spartacus Westminster Hindmarsh (Food) All Other Varieties	MALTING BARLEY			BARLEY	
		CO1 CM1 GA1 LA1 PL1 SO1 SP1 HIND -	CO2 CM2 GA2 LA2 PL2 SO2 SP2 WS1 -	CO3 CM3 GA3 LA3 PL3 SO3 SP3 WS3 -	BAR1 BAR1 BAR1 BAR1 BAR1 BAR1 BAR1 BAR1 BAR1	BAR2 BAR2 BAR2 BAR2 BAR2 BAR2 BAR2 BAR2 BAR2
BINNED GRADE <i>All malting varieties must be segregated and of the current season</i>						
VARP	Varietal Purity minimum (% by count per 100 Grain Sample) All approved 2 row malting varieties of the current season	95	95	95	All 2 row varieties	
MOGR	Moisture maximum (%)	12.5	12.5	12.5	12.5	12.5
PRGR	Protein minimum (%)	9.0	9.0	9.0	No Limit	No Limit
	Protein maximum (%)	12.0	12.0	12.8	No Limit	No Limit
TWT	Test Weight minimum (kg/hl)	65.0	65.0	65.0	62.5	60.0
RET	Retention minimum (% by weight) Above 2.5mm Agtator screen	70.0	62.0	58.0	No Limit	No Limit
SCRN	Screenings maximum (% by weight) Below 2.2mm Agtator screen	7.0	10.0	No Limit	15.0	25.0
GE72	Germination	95	95	95	No Limit	No Limit
FALL	Falling Number minimum (seconds)	300	300	300	N/A	N/A
Defective Grains – Maximum tolerance as per method specified. Note: NIL tolerance applies to the entire load. Defective definitions are to be read in conjunction with the photo in the Visual Recognition Standards Guide which depicts the minimum standard for a grain to be classified as defective.						
SPRO	Sprouted maximum (% by count per 100 Grain Sample) - Any visible evidence of the shoot or root system beginning to emerge from the germ. Note: NIL tolerance for sprouted grains does not apply to malt grades if a Falling Number analysis is conducted.	NIL	NIL	NIL	NIL	5
SHOT	Shot maximum (% by count per 100 Grain Sample) - Note: The NIL tolerance for shot grains does not apply if a Falling Number analysis is conducted.	NIL	NIL	NIL	No Limit	No Limit
BTIP	Dark Tipped (% by count per 100 Grain Sample)	10	10	10	No Limit	No Limit
FFUN	Field Fungi maximum (% by count per 100 Grain Sample) Seed coat has the appearance of black spotting occurring anywhere on the grain. Coverage greater than approximately 10% of the grain surface is considered defective, otherwise classified as sound. Grey surface discolouration of the kernel. Does not include Severely Damaged.	5	5	5	No Limit	No Limit
SKIN	Skinnings maximum (% by count per 100 Grain Sample)	15	15	15	No Limit	No Limit
CLD	Cleaved maximum (% by count per 100 Grain Sample) A split on any part of the grain that exposes the white endosperm.	1	1	1	No Limit	No Limit
DIST	Distorted maximum (% by count per 100 Grain Sample) Grain which is collapsed on the dorsal side. Grains may appear orange in colour.	5	5	5	10	10
GREE	Dry Green or Sappy maximum (% by count per 100 Grain Sample)	1	1	1	No Limit	No Limit
PFUN	Pink Fungal Maximum (count per half litre)	1	1	1	20	30
DAMI	Insect Damaged maximum (count per half litre)	10	10	10	85	85
SEVE	Severely Damaged (count per half litre above 2.2mm and 2.5mm screens) Mould, heat damaged / burnt, diseased or other serious visual defects. Grains that have become severely discoloured. Grains appear dark brown, or in severe cases, blackened. May also appear discoloured under the husk on the kernel. Does not include Field Fungi.	1	1	1	2	5
BKN	Broken maximum (% by weight per 100g Sample)	2	2	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.						
WS1	TYPE(1): Colocynthis, Poppy (Field, Horned), Jute, Long Head Poppy, Mexican Poppy, New Zealand Spinach, Parthenium Weed** (QLD Only), Safranium Thistle, Wild Poppy	8*	8*	8*	8*	8*
WS2	TYPE(2): Castor Oil Plant, Coriander, Crow Garlic/ Wild Garlic, Darling Pea, Opium Poppy, Parthenium Weed** (NSW/VIC/SA), Peanut seeds and pods, Ragweed, Rattlepods, Starburr, St. John's Wort	NIL	NIL	NIL	NIL	NIL
WS3A	TYPE(3a): Bathurst Burr, Bellvine, Branched Broomrape, Bulls Head/Caltrop/Cats Head, Cape Tulip, Cottonseed, Dodder, Noogoora Burr, Thornapple	2	2	2	2	2
WS3B	TYPE(3b): Vetch (Commercial), Vetch (Tare)	4	4	4	4	10
WS3C	TYPE(3c): Heliotrope (Blue), Heliotrope (Common) ****Note: included in this type are tolerances for seeds or pods.	1 Pod / 4 Seeds	1 Pod / 4 Seeds	1 Pod / 4 Seeds	1 Pod / 4 Seeds	1 Pod / 4 Seeds
WS3D	TYPE(3d): Double Gees / Spiny Emex / Three Cornered Jack	1	1	1	1	1
WS4	TYPE(4): Bindweed (Field), Cutleaf Mignonette seeds, Darnel (Drake Seed), Hexham Scent/King Island Melilot*** (only acceptable if no tainting odour is present), Hoary Cress, Mintweed, Nightshade, Paddy Melon, Skeleton Weed, Variegated Thistle	20	20	20	20	20
WS5	TYPE(5): Knapweed (Creeping/Russian), Sesbania Pea, Patterson's Curse/ Salvation Jane	40	40	40	40	40
WS6	TYPE(6): Columbus Grass, Johnson Grass ****	NIL	NIL	NIL	40	40
WS7A	TYPE(7a): Adzuki Beans, Broad Beans, Chickpeas, Clover, Corn (Maize), Cowpea, Faba Beans, Lentils, Lupins, Peas (Field), Medic Pods, Safflower, Soybean, Sunflower and any other seeds or pods greater than 5mm in diameter including broad bean. Includes Onion Weed Pods regardless of size	1	1	1	10	20
WS7B	TYPE(7b): 6 row barley, Bindweed (Australian), Bindweed (Black), Brome Grass, Carrot Weed, Musk Weed, Onion Weed, Phalaris Glumes, Poverty Weed, Ryegrass on stalk, Sheep Weed, Sorghum Grain, Three Horn Bedstraw, Turnip Weed Pod (regardless of size) and any other Foreign Seed not specified in Types 1-7(a), Foreign Grain, Variation (a or b) or in SFS	50	50	50	150	300
GC9A	Wheat, Cereal Rye, Triticale, Rice, Cultivated Oats	85	85	85	500	1500
GC9B	Wild/Black Oats*, Wild Radish Pods	25	25	25	50	100
GC9C	Barley with Coloured Aleurone Layer (Blue or Black). Also includes black hulled varieties.	NIL	NIL	NIL	100	100
SFS	Small Foreign Seeds maximum (% by weight) - Foreign seeds not already specified in TYPE(1)-TYPE(9c) 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 *** Hexham Scent is only acceptable if no tainting odour is present **** TYPE(6) limit in QLD is 40 per half litre for all barley grades ***** Heliotrope pods must be opened and the seeds counted						
Other Contaminants – Maximum tolerance as per method specified. Note: NIL tolerance applies to the entire load except where stated otherwise. All Foreign Seed Pods not listed above such as those that are 5mm or less in diameter are included as Foreign Material, whether whole pods or part thereof.						
FORM	Foreign Material maximum (% by weight per half litre) - Other than already specified. Includes: Milk Thistle Pods, pieces of seed pods	1%	1%	1%	1%	1%
ERGC	Cereal Smut/Cereal Ergot maximum (entire load) - Includes: Ball and gall smut, other smut species, cereal ergots.	NIL	NIL	NIL	NIL	NIL
LSMT	Loose Smut maximum (weight in grams per half litre)	0.1	0.1	0.1	0.1	0.1
ERGR	Ryegrass Ergot maximum (length in cm when pieces are aligned per half litre)	0.5cm	0.5cm	0.5cm	0.5cm	0.5cm
PICK	Pickling Compounds maximum (entire load)	NIL	NIL	NIL	NIL	NIL
CHEM	Chemicals Not Approved for Barley maximum (entire load)	NIL	NIL	NIL	NIL	NIL
LIVE	Stored Grain Insects and Pea Weevils: Live maximum (entire load)	NIL	NIL	NIL	NIL	NIL
INLG	Field Insects – Large, dead or alive (count per half litre) - Includes Desiantha Weevil, Pea Weevil (dead only), Sitona Weevil, Rutherglen bugs, Ladybirds, Grasshoppers, Locusts 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
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
SNAL	Snails: Live or Dead maximum (count per half litre)	1	1	1	1	4
SAND	Sand maximum (count per half litre)	50	50	50	50	50
EART	Earth maximum (count per half litre) (is defined as a clod of dirt, being 5mm or less in diameter)	3	3	3	3	3
STON	Stones maximum (g per 2.5L) Maximum total weight of all stones retained above the 2.2mm and 2.5mm screens per 2.5L	4	4	4	4	4
OBJM	Objectional Material maximum (entire load) - Presence of meat meal, blood meal, fish meal, poultry offal meal or other animal proteins. Sticks/Stubble (>3cm in length and/or 1cm in diameter), glass, concrete, metal, fertiliser, animal excreta, animal carcasses, tainting agents or any other commercially unacceptable contaminant, odour or taste (inc. plant parts and seeds of Eucalyptus spp.) greater than the tolerance or specifications as allowed in these standards.	NIL	NIL	NIL	NIL	NIL



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Segregations indicated on this chart are only available where announced. Approved varieties as listed per AOF Varietal Standard.

Test Code	Binned Grade	CAN	CANG
		Non-GM Varieties Only	All Varieties
MOGR	Moisture maximum (%)	8.0	8.0
PRGR	Protein (%)	No Limit	No Limit
COIL	Oil (%)	No Limit	No Limit
TWT	Test Weight minimum (kg/hl)	62	62
IMPU	Impurities maximum (% by weight) All foreign material. This includes canola and all other material falling through the 1.0mm round hole screen and Frost Damaged canola seeds.	3.0	3.0
Seed Contaminants – (Maximum tolerance by count per half litre to apply to individual seeds, unless otherwise stated)			
OWSA	Type A (entire load): Alligator Weed, Cape Tulips, Castor Oil Plant, Coriander, Creeping Knapweed, Darling Pea, Dodder, Giant Sensitive Plant, Opium Poppy, Parthenium Weed, Ragweed, Rattlepod, St. Johns Wort, Star Burr, Stinkwort	NIL	NIL
OWSB	Type B: Burrs - All (e.g. Bathurst Burr, Bulls Head/Caltrop/Cats Head, Double Gee / Spiny Emex / Three Cornered Jack, Noogoora Burr, Spiny Burrgrass) except if stated elsewhere, Wild Mignonette, Saffron Thistle	1	1
OWSC	Type C: Crow Garlic, Skeleton Weed, Thornapple	2	2
OWSD	Type D: Common Heliotrope, Darnel, Hexham Scent, Jute, Mexican Poppy, Mintweed, Nightshade	3	3
OWSE	Type E: Sesbania Pea	65	65
Contaminants - (Maximum tolerance as per method specified)			
SNON	Snails – Above the top 3.0mm screen maximum (count per 2.5 litres)	1	1
SNLB	Snails – Below the top 3.0mm screen maximum (count per half litre)	1	1
STON	Stones – Above the top 3.0mm screen maximum (count per 2.5 litres)	1	1
STNB	Stones – Below the top 3.0mm screen maximum (count per half litre)	1	1
GWBL	Insects - Large (Live and/or Dead) (count per half litre) - Includes Rutherglen bugs, ladybirds, pea weevil (dead only), grasshoppers, wood bugs, sitona weevils, earwigs, millipedes and vegetable bugs.	10	10
GWBS	Insects - Small (Live and/or Dead) (count per half litre) Includes all species of aphid, stored product insects (dead only) and all species of mites.	100	100
ERGR	Ryegrass Ergot (length in cm) - Maximum length of all pieces aligned end on end.	0.5 cm	0.5c m
SCLE	Sclerotes (% by weight) - Canola Sclerotes.	0.5	0.5
SOIL	Sand / Soil maximum (% by weight)	0.06%	0.06%
OBJM	Objectionable Material maximum (entire load) Commercially unacceptable material such as, but not limited to, harmful substances including live stored product insects, live pea weevil, glass, metal, specified weed seeds in excess of the limit prescribed in any of the State Stockfeed Regulations lists of permitted weed seeds, chemicals not approved for canola, musty seed and other material imparting an odour to the canola, tainting agents, animal material, fertiliser, sticks/stubble and pickled seed.	NIL	NIL

Not routinely assessed at receipt. If detected, please contact QA for advice.

Defective Canola Maximum tolerance as per method specified.
All methods to be determined on seed samples taken from the clean seed retained above the 1.0mm round hole screen.
Defective definitions are to be read in conjunction with the photo in the Visual Recognition Standards Guide which depicts the minimum standard for a grain to be classified as defective.

BURN	Heat Damaged (count per 1000 seeds) Assessed on crushed seeds.	1	1
MLD	Mould (count per 1000 seeds) Assessed on whole seeds before crushing. Includes: Field Fungi.	5	5
DAMS	Damaged maximum (% by count per 1000 seeds) Includes: Diseased, Weather Damaged and otherwise Materially Damaged. Frost Damaged seeds are not included in Damaged (refer to Impurities).	3	3
BKN	Broken or Split maximum (% by count per 1000 seeds) Includes: Insect Damaged.	7	7
SPRO	Sprouted maximum (% by count per 1000 seeds)	5	5
GREE	Green maximum (% by count per 1000 seeds)	2	2



CHICKPEAS STANDARDS 2020-2021

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Test Code	Binned Grade	CHKP
Physical Characteristics – The Desi type chickpeas should be sound, dry, fresh and light to medium brown in colour (a slight greenish tinge of the seed coat is allowed). Black is excluded as the predominating class.		Desi Type Only
VARP	Purity minimum (% by weight) Includes whole Desi type chickpeas, defective Desi type chickpeas and seed coats	97
MOGR	Moisture maximum (%) – Permanent Storages	14
	Moisture maximum (%) – Bunker Storages	12.5
Defective Grains – Maximum tolerances as per method specified based on a minimum 200g sample. Defective definitions are to be read in conjunction with the photo in the Visual Recognition Standards Guide which depicts the minimum standard for a grain to be classified as defective.		
DEFG	Defective maximum (% by weight per minimum 200g sample) Desi type chickpeas that are broken, chipped, frost damaged, diseased, green, hail damaged, insect damaged, sappy, shrivelled, split, sprouted, weather damaged, wrinkled. Includes pods that contain Desi type chickpeas, whether broken or unbroken, loose and missing seed coats and all Desi Chickpea seed material falling through the 3.97mm slotted screen after 10 shakes.	6
PCOL	OF WHICH Poor Colour maximum (% by weight per minimum 200g sample) Kernel is distinctly blemished and / or off colour from the characteristic yellow colour of the predominating class, including green. Must comply with the 1% Ascochyta detailed below.	2
VASC	OF WHICH Ascochyta maximum (% by weight per minimum 200g sample) Included in Poor Colour. Ascochyta affected means that an Ascochyta lesion is visible on the kernel. Assessors are required to break the seed coat if they are not confident that the lesion has penetrated to the kernel.	1
MLD	Mould maximum (count per 200g sample) Mould (Field and / or Storage), Caked, Bin Burnt & Heat Damaged.	1
Foreign Seed Contaminants – WS1 TYPE (1) the maximum applies on an individual seed basis per 200g. WS2 TYPE (2) - WS8 TYPE (8) Tolerances apply to whole seeds or their equivalent in pieces and refer to the maximum total of all seeds named in each type per 200g.		
WS1	TYPE(1): Colocynth, Doublegees / Spiny Emex / Three Cornered Jack, Jute, Long Head Poppy, Mexican Poppy, New Zealand Spinach, Parthenium Weed (QLD only)**, Poppy (Field), Poppy (Horned), Wild Poppy	4*
WS2	TYPE(2): Castor Oil Plant, Coriander, Crow Garlic/Wild Garlic, Darling Pea, Opium Poppy, Parthenium Weed** (NSW/VIC/SA), Ragweed, Rattlepods, Starburr, St. Johns Wort	NIL
WS3A	TYPE(3a): Bathurst Burr, Bulls Head/Caltrop/Cats Head, Cape Tulip, Cottonseed, Dodder, Noogoora Burr, Thornapple	1
WS3B	TYPE(3b): Vetch (Tare), Vetch (Commercial)	2
WS3C	TYPE(3c): Heliotrope (Blue)***, Heliotrope (Common)***	4
WS4	TYPE(4): Bindweed (Field), Cutleaf Mignonette, Darnel (Drake Seed), Hexham Scent / King Island Melilot ****, Hoary Cress, Mintweed, Nightshades, Paddy Melon, Skeleton Weed, Variegated Thistle	10
WS5	TYPE(5): Knapweed, Sesbania Pea, Pattersons Curse / Salvation Jane	20
WS6	TYPE(6): Colombus Grass, Johnson Grass, Saffron Thistle, Clover (Pods), Lucerne (Pods), Marshmallow (Pods), Medic (Pods), Muskweed (Pods), Sow Thistle (Heads), Wild Radish (Pods), Trefoil (Pods)	5
WS7A	TYPE(7a): Adzuki Beans, Broad Beans, Cowpea, Faba Beans, Lentils (Green / Red), Lupin, Maize / Corn, Mung beans, Peas (Field), Pigeon Peas, Soybean, any other seeds or pods greater than 5mm diameter not listed in the Standards.	10
WS7B	TYPE(7b): Barley (2 row), Barley (6 row), Bindweed (Australian), Bindweed (Black), Carrot Weed, Durum, Oats (Black or Wild), Oats (Sand), Oats (Common), Rice, Rye (Cereal), Sorghum (Grain), Triticale, Turnip Weed Pods (irrespective of size), Wheat, any other seed contaminant not specified (other than SFS).	10
WS7C	TYPE(7c): Safflower, Sunflower	1
WS8	TYPE(8): Bellvine	100
SFS	Small Foreign Seeds maximum (% by weight)	0.6%
*Individual seed basis **Parthenium Weed is a NIL tolerance in NSW/VIC/SA ***Heliotrope pods must be opened and the seeds counted ****Hexham Scent is only acceptable if no tainting odour is present		
Other Contaminants – Maximum tolerances as per method specified based on a minimum 200g sample. Note: NIL tolerance applies to entire load.		
FMAT	Foreign Material maximum (% by weight) 3% Maximum by weight, includes 2% maximum by weight Field Peas and 0.5% maximum by weight Unmillable Material. Includes unmillable material and all vegetable matter other than Desi type chickpea seed material.	3
FPEA	OF WHICH Field Peas maximum (% by weight)	2
UNML	OF WHICH Unmillable Material maximum (% by weight) Includes: soil, stones and non-vegetable matter.	0.5
SOIL	OF WHICH Soil maximum (% by weight)	0.3
SNAL	Snails Live or Dead maximum (by count per 200g sample) Whole or substantially whole (more than half) including bodies per 200g sample.	1
GWBL	Field Insects Live or Dead maximum (by count per 200g sample) Includes: hairy fungus beetle, ladybirds, minute mould beetles, pea weevil (dead only), sitona weevil, desiantha weevil, wood bugs, other field insects.	15
GRLO	Grasshoppers & Locusts, Live or Dead (by count per 200g sample)	2
OBJM	Objectionable Material maximum (entire load) Includes animal excreta, rodents, crushed insect bodies or parts that adhere to the grain, live insect pests, metal, pickling compounds, tainting agents, odours, fertiliser, sticks or any other commercially unacceptable contaminant, smell or taste.	NIL
ERGR	Ryegrass Ergot maximum (length in cm when pieces are laid end to end per 200g sample) Is a contaminant resulting from the infection of ryegrass kernels by the fungus <i>Claviceps purpurea</i> .	2cm
CHEM	Non Approved Treatment Chemicals or Treatment Levels above Legal Tolerances maximum (entire load)	NIL



DURUM STANDARDS 2020-2021

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Varietal Restrictions

Varietal restrictions apply to the grades on this chart. A variety must not be binned above its maximum allowable varietal classification. Durum varieties failing to meet the standards for DR1, DR2 or DR3 must not be binned above FED1.

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Test Code	Binned Grade	DR1	DR2	DR3
MOGR	Moisture Maximum (%)	12.5	12.5	12.5
PRGR	Protein Minimum (%)	13.0	11.5	10.0
TWT	Test Weight Minimum (kg/hl)	76	76	71
SCRN	Screenings (Material Below the Screen) Maximum (% by weight) Material passing through a 2.0mm slotted screen after 40 shakes.	5.0	5.0	10.0
UNM	Unmillable Material Above the Screen Maximum (% by weight) Material other than wheat kernels remaining on top of a 2.0mm slotted screen after 40 shakes. This consists of whiteheads (with grains removed), chaff, backbone, Wild Radish pods, Milk Thistle pods, Skeleton Weed Flowers (Seed Heads), other seedpods and other light material which remains above the 2.00mm screen after a sample of grain is subjected to the screening process. It excludes contaminants for which tolerances have been stated in these standards.	0.6	0.6	1.2
HVK	Vitreous Kernels Minimum (% by count per 300 Grain Sample)	80%	70%	No Limit
Defective Grains – Maximum tolerances as per method specified. Note: NIL tolerance applies to the entire load. Defective definitions are to be read in conjunction with the photo in the Visual Recognition Standards Guide which depicts the minimum standard for a grain to be classified as defective.				
FALL	Falling Number Minimum (seconds)	300	300	200
SPRO	Sprouted Maximum (% by count per 300 Grain Sample) The covering of the germ is split. It includes early and any further advanced stage of growth of the germ. Kernels exhibiting early stages of sprouting are those where the covering of the germ is split, but without further development of the shoot. Grains with pin holes are not included in this definition. Note: The NIL tolerance for sprouted grains does not apply if a Falling Number analysis is conducted.	NIL	NIL	NIL
STAN	Stained Maximum (% by count per 300 Grain Sample) A distinct dark brown to black discolouration on the germ end that, in severe cases, may progress to other parts of the grain such as the crease. Grains are commonly referred to as "black point" or "black tip". Includes any staining beyond the minimum and up to 50% of the entire grain surface. For staining level greater than 50%, refer to Field Fungi. Also includes adherence of contaminants such as soil, dust, plant parts and other material.	3% (9 grains)	5% (15 grains)	20% (60 grains)
PFUN	Pink Stained Maximum (% by count per 300 Grain Sample) Grains with distinct pink discolouration. Grains that are pink but also contain a white to light grey fungal like discolouration over more than approximately 50% of the seed coat surface are to be classified as "White Grain Disorder / Head Scab".	2% (6 grains)	2% (6 grains)	5% (15 grains)
WGDH	White Grain Disorder/Head Scab/Flaked Grain Maximum (% by count per 300 Grain Sample) Grains appear white to light grey but may also contain a pink discolouration. Discolouration must be over more than approximately 50% of the seed coat surface. If the discolouration is less than approximately 50% of the seed coat surface, grains may be classified as sound. Grains may also appear flaky with a white discolouration or resemble tombstones.	1% (3 grains)	1% (3 grains)	1% (3 grains)
GREE	Dry Green or Sappy Maximum (% by count per 300 Grain Sample)	1% (3 grains)	2% (6 grains)	2% (6 grains)
DIST	Distorted (% by count per 300 Grain Sample)	1% (3 grains)	2% (6 grains)	2% (6 grains)
DAMI	Insect Damaged Maximum (% by count per 300 Grain Sample)	1% (3 grains)	1% (3 grains)	1% (3 grains)
ARTD	Over-Dried Damaged Maximum (% by count per 300 Grain Sample)	NIL	NIL	NIL
BRWT	Bread Wheat maximum (% by count per 300 Grain Sample)	3% (9 grains)	3% (9 grains)	5% (15 grains)
FFUN	Field Fungi Maximum (count per half litre) Individual kernels where more than half (50%) of the seed coat is discoloured. Discolouration can vary from dark grey, brown to black in colour. Grains that are approximately 50% or less discoloured are to be classified as Stained. Does not include Severely Damaged.	10	10	10
SEVE	Severely Damaged (count per half litre above 2.0mm screen) Mould, heat damaged/burnt, or other serious visual defects. Grains that have become severely discoloured. Grains appear reddish brown, dark brown, or in severe cases, blackened. Does not include Field Fungi.	1	1	1
SMUT	All Smuts (except Loose Smut) Maximum (entire load) Includes: Ball Smut, Stinking Smut, Bunt, Covered Smut.	NIL	NIL	NIL
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): Colocynthis, Double Gees/Spiny Emex/Three Cornered Jack, Jute, Long Head Poppy, Mexican Poppy, Opium Poppy, Field Poppy, Horned Poppy, Wild Poppy, New Zealand Spinach, Parthenium Weed** (QLD only)	8*	8*	8*
WS2	TYPE(2): Castor Oil Plant, Coriander, Crow Garlic/ Wild Garlic, Darling Pea, Parthenium Weed** (NSW/VIC/SA), Peanut seeds and pods, Ragweed, Rattlepods, Starburr, St. John's Wort	NIL	NIL	NIL
WS3A	TYPE(3a): Bathurst Burr, Bellvine, Branched Broomrape, Bulls Head/Caltrop/Cats Head, Cape Tulip, Cottonseed, Dodder, Noogora Burr, Thornapple	2	2	2
WS3B	TYPE(3b): Vetch (Tare), Vetch (Commercial)	4	4	4
WS3C	TYPE(3c): Heliotrope (Blue), Heliotrope (Common) ****Note: included in this Type are tolerances for seeds or pods.	2 Pods / 8 Seeds	2 Pods / 8 Seeds	2 Pods / 8 Seeds
WS4	TYPE(4): Bindweed (Field), Cutleaf Mignonette, Damek (Drake Seed), Hexham Scent/King Island Melilot*** (only acceptable if no tainting odour is present), Hoary Cress, Mintweed, Nightshade, Paddy Melon, Skeleton Weed, Variegated Thistle	20	20	20
WS5	TYPE(5): Knapweed (Creeping/Russian), Sesbania Pea, Patterson's Curse/ Salvation Jane	40	40	40
WS6	TYPE(6): Columbus Grass, Johnson Grass, Saffron Thistle	10	10	50
WS7A	TYPE(7a): Adzuki Beans, Broad Beans, Chickpeas, Corn (Maize), Cowpea, Faba Beans, Lentils, Lupins, Peas (Field), Medic Pods, Safflower, Soybean, Sunflower and any other seeds or pods greater than 5mm in diameter. Includes Onion Weed Pods regardless of size	1	1	10
WS7B	TYPE(7b): Barley (2 & 6 row), Bindweed (Australian), Bindweed (Black), Brome Grass, Carrot Weed, Bread wheat, Red/Spring Feed Wheats, Oats (Black/Wild), Oats (Sand), Oats (Common), Rice, Rye (Cereal), Ryegrass on Stalk, Sorghum (Grain), Triticale, Turnip Weed Pod and any other Foreign Seeds not specified in Types 1-7(a), in SFS or in Unmillable Material Above the Screen that remain above the 2.0mm screen following the Screenings process.	50	50	150
SFS	Small Foreign Seeds (SFS) maximum (% 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%	1.2%
* Individual Seed Basis ** Parthenium Weed is a NIL tolerance in NSW/VIC/SA *** Hexham Scent is only acceptable if no tainting odour is present **** Heliotrope pods must be opened and the seeds counted				
Other Contaminants – Maximum tolerances as per method specified. Note: NIL tolerance applies to the entire load.				
PICK	Pickling Compounds Maximum (entire load)	NIL	NIL	NIL
CHEM	Chemicals Not Approved for Durum Maximum (entire load)	NIL	NIL	NIL
ERGR	Ryegrass Ergot Maximum (length in cm when pieces are aligned per half litre)	2cm	2cm	2cm
ERGW	Cereal Ergot Maximum (count per half litre)	1	1	1
LIVE	Stored Grain Insects and Pea Weevils: Live Maximum (entire load)	NIL	NIL	NIL
INLG	Field Insects – Large, dead or alive Maximum (count per half litre) Includes: Desiantha Weevil, Pea Weevil (dead only), 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
INSM	Field Insects – Small, dead or alive Maximum (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
SNAL	Snails (Live or Dead) Maximum (count per half litre)	1	1	1
EAR	Earcobble Maximum (count per half litre)	10	10	10
LSMT	Loose Smut Maximum (count per half litre)	3	3	3
SAND	Sand Maximum (count per half litre)	20	20	20
EART	Earth Maximum (count per half litre) Defined as a clod of dirt, being 5mm or less in diameter.	1	1	1
STON	Stones (g per 2.5L above 2.0mm screen) Maximum weight of all stones retained above a 2.0mm screen per 2.5L	4	4	4
OBJM	Objectionable Material Maximum (entire load) Presence of meat meal, blood meal, fish meal, poultry offal meal or other animal proteins. Sticks/Stubble (>3cm in length and/or 1cm in diameter), glass, concrete, metal, fertiliser, animal excreta, animal carcasses, tainting agents or any other commercially unacceptable contaminant, odour or taste greater than the tolerance or specifications as allowed in these standards.	NIL	NIL	NIL
OFM	Other Foreign Material Maximum (% by weight) Includes fine material (dust and minerals), pieces of snail shell (<half), pieces of stored grain insects, other non-vegetative material not listed.	0.1%	0.1%	0.1%



FABA BEAN STANDARDS 2020-2021

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Test Code	Binned Grade	FAB1	FAB2
Physical Characteristics – The Faba Beans shall be sound, dry and fresh and light to medium brown or pale green in colour.			
VARP	Purity minimum (% by weight) Includes whole Faba Beans, defective Faba Beans and seed coats	97	97
MOGR	Moisture maximum (%)	14	14
Defective Grains – maximum % by weight per minimum 400g sample. Defective definitions are to be read in conjunction with the photo in the Visual Recognition Standards Guide which depicts the minimum standard for a grain to be classified as defective.			
DEFG	Total Defective maximum (% by weight per minimum 400g sample) Faba Beans not of the specified variety and Faba Beans that are broken, chipped, frost damaged, diseased, green, insect damaged, sappy, shrivelled, split, sprouted, stained, weather damaged, wrinkled. Includes pods that contain Faba Beans whether broken or unbroken, loose seed coat and all Faba Bean seed material falling through the 3.75mm slotted screen.	6%	10%
PCOL	OF WHICH Poor Colour maximum (% by weight per minimum 400g sample) Kernel is distinctly blemished and / or off colour from the characteristic yellow colour of the predominating class. Includes Fungal Affected (e.g. Ascochyta lesions).	3%	7%
MLD	Mould maximum (count per 400g sample) Mould (Field and / or Storage), Caked, Bin Burnt & Heat Damaged.	1	1
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 400g. Except TYPE(1) in which the maximum applies on an individual seed basis per 400g.			
WS1	TYPE(1): Colocynth, Doublegees / Spiny Emex / Three Cornered Jack, Jute, Long Head Poppy, Mexican Poppy, New Zealand Spinach, Parthenium Weed** (QLD only)**, Poppy (Field), Poppy (Horned), Wild Poppy	8*	8*
WS2	TYPE(2): Castor Oil Plant, Coriander, Crow Garlic/Wild Garlic, Darling Pea, Opium Poppy, Parthenium Weed** (NSW/VIC/SA), Ragweed, Rattlepods, Starburr, St. Johns Wort	NIL	NIL
WS3A	TYPE(3a): Bathurst Burr, Bulls Head/Caltrop/Cats Head, Cape Tulip, Cottonseed, Dodder, Noogoora Burr, Thornapple	2	2
WS3B	TYPE(3b): Vetch (Tare), Vetch (Commercial)	4	4
WS3C	TYPE(3c): Heliotrope (Blue)***, Heliotrope (Common)***	8	8
WS4	TYPE(4): Bindweed (Field), Cutleaf Mignonette, Darnel (Drake Seed), Hexham Scent / King Island Melilot ****, Hoary Cress, Mintweed, Nightshades, Paddy Melon, Skeleton Weed, Variegated Thistle	20	20
WS5	TYPE(5): Knapweed, Sesbania Pea, Pattersons Curse / Salvation Jane	40	40
WS6	TYPE(6): Colombus Grass, Johnson Grass, Saffron Thistle, Clover (Pods), Lucerne (Pods), Marshmallow (Pods), Medic (Pods), Muskweed (Pods), Sow Thistle (Heads), Wild Radish (Pods), Trefoil (Pods)	10	10
WS7A	TYPE(7a): Adzuki Beans, Broad Beans, Cowpea, Chickpeas (Desi / Kabuli), Lentils (Green / Red), Lupin, Maize / Corn, Mung beans, Peas (Field), Pigeon Peas, Soybean, any other seeds or pods greater than 5mm diameter not listed in the Standards.	20	20
WS7B	TYPE(7b): Barley (2 row), Barley (6 row), Bindweed (Australian), Bindweed (Black), Carrot Weed, Durum, Oats (Black or Wild), Oats (Sand), Oats (Common), Rice, Rye (Cereal), Sorghum (Grain), Triticale, Turnip Weed Pods (irrespective of size), Wheat, any other seed contaminant not specified (other than SFS).	20	20
WS7C	TYPE(7c): Safflower, Sunflower	2	2
WS8	TYPE(8): Bellvine	200	200
SFS	Small Foreign Seeds maximum (% by weight)	0.6%	0.6%
*Individual seed basis ***Heliotrope pods must be opened and the seeds counted **Parthenium Weed is a NIL tolerance in NSW/VIC/SA ****Hexham Scent is only acceptable if no tainting odour is present			
Other Contaminants – Maximum per 400g sample unless otherwise stated. Note: NIL tolerance applies to the entire load.			
FMAT	Foreign Material maximum (% by weight) Includes unmillable material and all vegetable matter other than Faba Bean seed material, including any Foreign Seeds.	3	3
UNML	OF WHICH Unmillable Material maximum (% by weight) Includes soil, stones and non-vegetable matter.	0.5	0.5
SOIL	OF WHICH Soil maximum (% by weight)	0.3	0.3
SNAL	Snails maximum (by count per 400g sample) Dead or alive. Whole or substantially whole (more than half) including bodies.	2	2
GWBL	Field Insects Live or Dead maximum (by count per 400g sample) Includes: hairy fungus beetle, ladybirds, minute mould beetles, pea weevil (dead only), sitona weevil, desiantha weevil, wood bugs, other field insects.	30	30
GRLO	Grasshoppers & Locusts, Live or Dead (by count per 400g sample)	4	4
OBJM	Objectionable Material maximum (entire load) Includes animal excreta, rodents, crushed insect bodies or parts that adhere to the grain, live insect pests, metal, pickling compounds, tainting agents, fertiliser, objectionable odours or any other commercially unacceptable contaminant, smell or taste.	NIL	NIL
ERGR	Ryegrass Ergot maximum (length in cm when pieces are laid end to end per 400g sample)	4cm	4cm
CHEM	Non Approved Treatment Chemicals or Treatment Levels above Legal Tolerances (entire load)	NIL	NIL



FEED MAIZE STANDARDS 2020-2021

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Test Code	Binned Grade	FMAZ
Description – Hybrids 99.8% free from genetic modification.		
MOGR	Moisture maximum (%)	14.0
TWT	Test Weight minimum (kg/hl)	70
ADMX	Admixture maximum (% by weight) Total of Foreign Material, Screenings and Trash	8.0
FGNM	Foreign Material maximum (% by weight) All material other than maize. Includes pieces of seed pods.	5.0
SCRN	Screenings maximum (% by weight) All matter passing through a 4.75mm round hole screen after 40 shakes.	5.0
UNM	Trash maximum (% by weight) Chaff and other Trash retained above a 4.75mm round hole screen following the Screenings process.	4.0
Defective Grains – Maximum tolerance as per method specified. Note: NIL tolerance applies to the entire load except where stated otherwise. Defective definitions are to be read in conjunction with the photo in the Visual Recognition Standards Guide which depicts the minimum standard for a grain to be classified as defective .		
BKN	Broken and Cracked maximum (% by weight per 200 grams)	10.0
DAMI	Damaged maximum (% by weight per 200 grams) Includes Dark Grain, Field Fungi, Heat Damaged, Insect Damaged, Silk Cut and Sprouted.	5.0
DEA	Dead or Mouldy maximum (% by weight per 200 grams) Includes Starburst and storage mould. Dead are those that have been affected by disease and appear >50% opaque.	5.0
PFUN	Pink Stained maximum (entire load)	NIL
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 Gee / Spiny Emex / Three Cornered Jack, Poppy (Field, Poppy (Horned), Jute, Long Head Poppy, Mexican Poppy, New Zealand Spinach, Parthenium Weed** (QLD only), Wild Poppy	8*
WS2	TYPE(2): Castor Oil Plant, Coriander, Crow Garlic/Wild Garlic, Darling Pea, Opium Poppy, Parthenium Weed** (NSW/VIC/SA), Peanut seeds and pods, Ragweed, Rattlepods, St. Johns Wort, Starburr, Thornapple / False Castor Oil	NIL
WS3A	TYPE(3a): Bathurst Burr, Bellvine, Branched Broomrape, Bulls Head / Caltrop / Cats Head, Cape Tulip, Cottonseed, Dodder, Noogoora Burr	2
WS3B	TYPE(3b): Vetch (Commercial), Vetch (Tare)	4
WS3C	TYPE(3c): Heliotrope (Blue), Heliotrope (Common) ***Note: included in this Type are tolerances for seeds or pods.	2 Pods / 8 Seeds
WS4	TYPE(4): Bindweed (Field), Cut-leaf mignonette seeds or pods, Darnel (Drake Seed), Hexham Scent/ King Island Melilot ****, Hoary Cress, Mintweed, Nightshades, Paddy Melon, Skeleton Weed, Variegated Thistle	20
WS5	TYPE(5): Knapweed, Paterson's Curse / Salvation Jane, Sesbania Pea	40
WS6	TYPE(6): Saffron Thistle, Columbus Grass, Johnson Grass	10
WS7A	TYPE(7a): Adzuki Beans, Broad Beans, Chickpeas, Clover pods, Cowpea, Faba Beans, Lentils, Lupin, Medic Pods, Peas (Field), Safflower, Soybean, Sunflower - And any other seeds or pods greater than 5.0mm in diameter. Includes Onion Weed Pods regardless of size.	50
WS7B	TYPE(7b): Barley, Bindweed (Australian), Bindweed (Black), Brome Grass, Carrot Weed, Wheat, Durum, Oats (Black), Oats (Sand), Oats (Wild), Oats (Common), Rice, Rye (Cereal), Phalaris glumes, Poverty weed, Ryegrass on stalk, Sheep weed, Sorghum (Forage / Grain), Three horn bedstraw, Turnip Weed Pods and any other weed seeds not specified in Types 1 - 7(a), in SFS or listed elsewhere within these Standards.	50
SFS	Small Foreign Seeds maximum (% by weight)	1.6%
<p style="text-align: center;">* Individual seed basis ** Parthenium Weed is a NIL tolerance in NSW/VIC/SA *** Heliotrope pods must be opened and the seeds counted **** Hexham Scent is only acceptable if no tainting odour is present</p>		
Other Contaminants – Maximum tolerances as per method specified. Note: NIL tolerance applies to the entire load.		
BOSM	Boil Smut maximum (% by weight per half litre)	3%
SMUT	Smuts/Cereal Ergots maximum (entire load) Includes Ball Smut, Gall Smut and all Smut other than Boil Smut.	NIL
ERGR	Ergot of Ryegrass maximum (length in cm when pieces are aligned per half litre)	0.5cm
LIVE	Stored Grain Insects and Pea Weevils: Live maximum (entire load)	NIL
INLG	Field Insects – Large, dead or alive maximum (count per half litre) Includes: Desiantha Weevil, Pea Weevil (dead only), 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
INSM	Field Insects – Small, dead or alive maximum (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
SNAL	Snails: Live or Dead maximum (count per half litre)	2
EART	Earth maximum (count per half litre) Defined as a clod of dirt, being 5mm or less in diameter.	3
SAND	Sand maximum (count per half litre) Individual grains of sand.	50
STON	Stones maximum (g per 2.5L) Maximum total weight of all stones per 2.5L	4
OBJM	Objectionable Matter maximum (entire load) Includes: Sticks/Stubble (>3cm in length and/or 1cm in diameter), glass, concrete, metal, fertiliser, animal excreta, animal carcasses, tainting agents or any other commercially unacceptable contaminant, odour or taste (inc. plant parts and seeds of Eucalyptus spp.) greater than the tolerance or specifications as allowed in these standards.	NIL
PICK	Pickling Compounds & Coloured Grain maximum (entire load) Includes: Pickled grain, dyed grain	NIL
TAIN	Odour maximum (entire load) Grain which has any commercially objectionable foreign odour due to tainting agents or improper storage causing odour.	NIL
CHEM	Chemicals Not Approved for Maize maximum (entire load) Residues of any chemical compound not approved for Maize, used in contravention of the labelled instructions or chemicals in excess of the Australian MRL.	NIL



LENTILS STANDARDS 2020-2021

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Test Code	Binned Grade	LRS1	LRS2
Physical Characteristics – The Lentils shall be red, hard and well filled.			
VARP	Purity minimum (% by weight) Includes whole Red Small Lentils excluding Northfield, defective Lentils and seed coats.	97	97
MOGR	Moisture maximum (%)	14	14
Defective Grains – maximum % by weight per minimum 200g sample. Defective definitions are to be read in conjunction with the photo in the Visual Recognition Standards Guide which depicts the minimum standard for a grain to be classified as defective.			
DEFG	Total Defective maximum (% by weight per minimum 200g sample) Red Lentils not of the specified variety. Red Lentil kernels that are black, broken, chipped, diseased, frost damaged, insect damaged, orange tip, sappy, shrivelled, split, sprouted, weather damaged, wrinkled. Includes pods that contain Red Lentils, wheather broken or unbroken, loose seed coat, 3% blondes (Aldinga only) and all Red Lentil seed material falling through the 2mm slotted screen (Aldinga 2.2mm).	4	8
PSCC	OF WHICH Poor Seed Coat Colour maximum (% by weight per minimum 200g sample) Seed coats vary from dark brown to black, but may be depicted by other colours. Seed coats may be similar in appearance to various other defects such as Bin Burnt & Heat Damaged, Fungal Affected or Mouldy and Caked. Does not include Contrasting Colour. Where any poor colour is present on the seed coat, it is recommended the kernel also be inspected.	1	3
PKC	OF WHICH Poor Kernel Colour (% by weight per minimum 200g sample) Poor Colour Kernel refers to excessive discolouration of the kernel often depicted as a green colour. Includes green, brown, black, yellow, bleached and chalky white kernels or any other discolouration.	1	1
VRTY	OF WHICH Variety (% by weight per minimum 200g sample) Red Lentils not of the specified variety.	1	1
COCO	Contrasting Colour (% by weight per minimum 200g sample) Contrasting colour of the seed coat in the same variety. Not classified as defective.	1	1
MLD	Mould maximum (count per 200g sample) Mould (Field and / or Storage), Caked, Bin Burnt & Heat Damaged.	1	1
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 200g. Except TYPE(1) in which the maximum applies on an individual seed basis per 200g.			
WS1	TYPE(1): Colocynth, Doublegees / Spiny Emex / Three Cornered Jack, Jute, Long Head Poppy, Mexican Poppy, New Zealand Spinach, Parthenium Weed** (QLD only), Poppy (Field), Poppy (Horned), Wild Poppy	4*	4*
WS2	TYPE(2): Castor Oil Plant, Coriander, Crow Garlic/Wild Garlic, Darling Pea, Opium Poppy, Parthenium Weed** (NSW/VIC/SA), Ragweed, Rattlepods, Starburr, St. Johns Wort	NIL	NIL
WS3A	TYPE(3a): Bathurst Burr, Bulls Head/Caltrop/Cats Head, Cape Tulip, Cottonseed, Dodder, Noogoora Burr, Thornapple	1	1
WS3B	TYPE(3b): Vetch (Tare), Vetch (Commercial)	2	2
WS3C	TYPE(3c): Heliotrope (Blue)***, Heliotrope (Common)***	4	4
WS4	TYPE(4): Bindweed (Field), Cutleaf Mignonette, Darnel (Drake Seed), Hexham Scent / King Island Melilot ****, Hoary Cress, Mintweed, Nightshades, Paddy Melon, Skeleton Weed, Variegated Thistle	10	10
WS5	TYPE(5): Knapweed, Sesbania Pea, Pattersons Curse / Salvation Jane	20	20
WS6	TYPE(6): Colombus Grass, Johnson Grass, Saffron Thistle, Clover (Pods), Lucerne (Pods), Marshmallow (Pods), Medic (Pods), Muskweed (Pods), Sow Thistle (Heads), Wild Radish (Pods), Trefoil (Pods)	5	5
WS7A	TYPE(7a): Adzuki Beans, Broad Beans, Cowpea, Chickpeas (Desi / Kabuli), Faba Beans, Lupin, Maize / Corn, Mung beans, Peas (Field), Pigeon Peas, Soybean, any other seeds or pods greater than 5mm diameter not listed in the Standards.	10	10
WS7B	TYPE(7b): Barley (2 row), Barley (6 row), Bindweed (Australian), Bindweed (Black), Carrot Weed, Durum, Oats (Black or Wild), Oats (Sand), Oats (Common), Rice, Rye (Cereal), Sorghum (Grain), Triticale, Turnip Weed Pods (irrespective of size), Wheat, any other seed contaminant not specified (other than SFS).	10	10
WS7C	TYPE(7c): Safflower, Sunflower	1	1
WS8	TYPE(8): Bellvine	100	100
WSC	Cereals(C): Wheat, Durum, Barley, Oats (common), Sorghum, Triticale, Cereal Rye, Maize, Rice	2	2
SFS	Small Foreign Seeds maximum (% by weight)	0.6%	0.6%
*Individual seed basis **Parthenium Weed is a NIL tolerance in NSW/VIC/SA ***Heliotrope pods must be opened and the seeds counted ****Hexham Scent is only acceptable if no tainting odour is present			
Other Contaminants – Maximum per 200g sample unless otherwise stated. Note: NIL tolerance applies to the entire load.			
FMAT	Foreign Material maximum (% by weight) Includes unmillable material and all vegetable matter other than red Lentil seed material, including any Foreign Seeds.	3	3
UNML	OF WHICH Unmillable Material maximum (% by weight) Includes soil, stones and non-vegetable matter.	0.5	0.5
SOIL	OF WHICH Soil maximum (% by weight)	0.3	0.3
SNAL	Snails maximum (by count per 200g) Dead or alive. Whole or substantially whole (more than half) including bodies.	1	1
GWBL	Field Insects Live or Dead maximum (by count per 200g) Includes: hairy fungus beetle, ladybirds, minute mould beetles, pea weevil (dead only), sitona weevil, desiantha weevil, wood bugs, other field insects.	15	15
GRLO	Grasshoppers & Locusts, Live or Dead maximum (by count per 200g sample)	2	2
OBJM	Objectionable Material maximum (entire load) Includes animal excreta, rodents, crushed insect bodies or parts that adhere to the grain, live insect pests, metal, pickling compounds, tainting agents, fertiliser, objectionable odours or any other commercially unacceptable contaminant, smell or taste.	NIL	NIL
ERGR	Ryegrass Ergot maximum (length in cm when pieces are laid end to end per 200g sample)	2cm	2cm
CHEM	Non Approved Treatment Chemicals or Treatment Levels above Legal Tolerances (entire load)	NIL	NIL



OATS STANDARDS 2020-2021

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Test Code	Binned Grade	MOAT	GSF
VARP	Varietal Purity minimum (% by count)	95	No Limit
MOGR	Moisture maximum (%)	12.5	12.5
TWT	Test Weight minimum (kg/hl)	51.0	48.0
SCRN	Unmillable Material Below The Screen maximum (% by weight) Material passing through a 2.0mm slotted screen after 40 shakes	10	20
UNM	Unmillable Material Above The Screen maximum (% by weight) Includes whiteheads (with grains removed), chaff, backbone, Wild Radish pods, Milk Thistle pods and pieces of seedpods (maximum % by weight).	No Limit	No Limit

Defective Grains – Maximum tolerance as per method specified. Note: **NIL** tolerance applies to the entire load.

Defective definitions are to be read in conjunction with the photo in the Visual Recognition Standards Guide which depicts the minimum standard for a grain to be classified as defective.

DAMS	Damaged Grains maximum (% by count per 200 grain sample)	2% (4 grains)	No Limit
STAN	Total Stained Grains maximum (% by count per 200 grain sample) (Includes Septoria)	5% (10 grains)	20% (40 grains)
STAK	Total Stained Groats maximum (% by count per 200 grain sample) (Includes Septoria)	NIL	20% (40 grains)
GREE	Dry Green or Sappy maximum (% by count per 200 grain sample)	5% (10 grains)	No Limit
FTDG	Frost Damaged / Takeall Affected maximum (% by count per 200 grain sample)	1% (2 grains)	20% (40 grains)
DAMI	Insect Damaged maximum (% by count per 200 grain sample)	1% (2 grains)	5% (10 grains)
SPRE	Shot maximum (% by count per 200 grain sample)	NIL	No Limit
SPRO	Sprouted maximum (% by count per 200 grain sample)	NIL	NIL
FFUN	Field Fungi maximum (count per half litre)	10	30
SEVE	Severely Damaged (count per half litre)	NIL	1

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, Jute, Long Headed Poppy, Mexican Poppy, Field Poppy, Horned Poppy, Wild Poppy, New Zealand Spinach, Parthenium Weed*** (QLD only)	5*	5*
WS2	TYPE(2): Castor Oil Plant, Coriander, Crow Garlic/Wild Garlic, Darling Pea, Double Gee/Spiny Emex/Three Cornered Jack**, Opium Poppy, Peanut seeds or pods, Parthenium Weed*** (NSW/VIC/SA), Ragweed, Rattlepods, Starburr, St. John's Wort	NIL	NIL
WS3A	TYPE(3a): Bathurst Burr, Bellvine, Branched Broomrape, Bulls Head/Caltrop/Cats Head, Cape Tulip, Cottonseed, Dodder, Noogoora Burr, Thornapple/False Castor Oil	NIL	NIL
WS3B	TYPE(3b): Vetch (Commercial), Vetch (Tare)	4	4
WS3C	TYPE(3c): Heliotrope (Blue), Heliotrope (Common) ****Note: included in this Type are tolerances for seeds or pods.	1 Pods / 4 Seeds	1 Pods / 4 Seeds
WS4	TYPE(4): Bindweed (Field), Cutleaf Mignonette seeds or pods, Darnel, Hexham Scent/King Island Melilot****, Hoary Cress, Mintweed, Nightshades, Paddy Melon, Skeleton Weed, Variegated Thistle	10	10
WS5	TYPE(5): Knapweed (Creeping/Russian), Patterson's Curse/Salvation Jane, Sesbania pea	40	40
WS6	TYPE(6): Saffron Thistle	5	10
WS7A	TYPE(7a): Adzuki Beans, Broad Beans, Chickpeas, Colombus Grass, Corn (Maize), Cowpea, Faba Beans, Johnson Grass, Lentils, Lupin, Medic Pods, Peas (Field), Safflower, Soybean, Sunflower and any other seeds or pods greater than 5mm in diameter.	1	20
WS7B	TYPE(7b): Barley, Bindweed (Australian), Bindweed (Black), Brome Grass, Carrot Weed, Wheat, Durum, Oats (Sand), Rice, Rye (Cereal), Ryegrass on Stalk, Sorghum (Forage), Sorghum (Grain), Triticale, Turnip Weed Pods and any other weed seeds not specified in TYPES 1-7(a), TYPE 8 or SFS	50	250
WS8	TYPE(8): Oats (Black or Wild)*	20	100
SFS	Small Foreign Seeds maximum (% by weight) All foreign seeds not specified in Types 1-7(b) that fall below the 2.0mm screen during the Screenings process.	0.5%	3%

* Individual seed basis ** Doublegees/Spiny Emex/Three Cornered Jack is a **NIL** tolerance in MOAT *** Parthenium Weed is a **NIL** tolerance in NSW/VIC/SA
**** Heliotrope pods must be opened and the seeds counted ***** Hexham Scent is only acceptable if no tainting odour is present

Other Contaminants – Maximum tolerance as per method specified. Note: **NIL** tolerance applies to the entire load.

SMUT	Smuts/Cereal Ergots maximum (entire load) Includes: Ball and gall smut, other smut species, cereal ergots.	NIL	NIL
ERGR	Ergot of Ryegrass maximum (length in cm when pieces are aligned per half litre)	2cm	2cm
LIVE	Stored Grain Insects and Pea Weevils: Live maximum (entire load)	NIL	NIL
INLG	Field Insects – Large, dead or alive (count per half litre) Includes: Desiantha Weevil, Pea Weevil (dead only), 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
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
SNAL	Snails: Live or Dead maximum (count per half litre)	2	3
EART	Earth Maximum (count per half litre) Defined as a clod of dirt, being 5mm or less in diameter.	3	3
SAND	Sand maximum (count per half litre) Individual grains of sand.	50	50
STON	Stones maximum (g per 2.5L) Weight of all Stones retained above a 2.0mm screen per 2.5L.	4	4
OBJM	Objectionable Material maximum (entire load) Includes: Sticks/Stubble (>3cm in length and/or 1cm in diameter), glass, concrete, fertiliser or any other commercially unacceptable contaminant, smell or taste greater than the tolerance or specifications as allowed in these standards.	NIL	NIL
PICK	Pickling Compounds maximum (entire load)	NIL	NIL
MLD	Odour maximum (entire load) Grain which has any commercially objectionable foreign odour due to tainting agents or improper storage causing mould, souring or musty odours.	NIL	NIL
CHEM	Chemicals Not Approved for Oats maximum (entire load) Residues of any chemical compound not approved for Oats, used in contravention of the labelled instructions or chemicals in excess of the Australian MRL.	NIL	NIL
OFM	Other Foreign Material maximum (% by weight per half litre) Includes but not limited to: fine material (soil, dust, minerals), pieces of snail shell (< half), pieces of stored grain insects, and other non-vegetative material not listed.	0.1	0.1



SOFT WHEAT STANDARDS 2020-2021

THIS CHART IS INTENDED TO ACT AS A GUIDE ONLY

Issued on 01 August 2020

Varietal Restrictions

Varietal restrictions apply to the grades on this chart. A variety must not be binned above its maximum allowable varietal classification.
 ANW1, ANW2, ASWS – Only the variety Rosella. Where these segregations are not available, these varieties may only be received into FED1 or lower grades.
 SFE1, SFE2, SGP1, SGP2 - Only the varieties Anlace, Barham, Gazelle, Impala, Orion, QAL2000. Yenda may be received into SFE1, SFE2, SGP1 or SGP2 segregations (subject to Varietal Classification Zones).
 Where these segregations are not available, these varieties may only be received into FED1 or lower grades.

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	NOODLE			SOFT			
		ANW1	ANW2	ASWS	SFE1	SFE2	SGP1	SGP2
MOGR	Moisture Maximum (%)	12.5	12.5	12.5	12.5	12.5	12.5	12.5
PRGR	Protein Minimum (%)	9.5	No Limit	No Limit	No Limit	No Limit	No Limit	10.5
	Protein Maximum (%)	11.5	No Limit	9.5	9.5	10.5	10.5	No Limit
TWT	Test Weight Minimum (kg/hl)	76	72	76	76	76	70	70
SCRN	Screenings (All Material Below the Screen) Maximum (% by weight)	5.0	10	5.0	8.0	8.0	8.0	8.0
	Material passing through a 2.0mm slotted screen after 40 shakes.							
UNM	Unmillable Material Above the Screen Maximum (% by weight) This consists of whiteheads (with grains removed), chaff, backbone, Wild Radish pods, Milk Thistle pods, Skeleton Weed Flowers (Seed Heads), other seedpods and other light material which remains above the 2.00mm screen after a sample of grain is subjected to the screening process. It excludes contaminants for which tolerances have been stated in these Standards.	0.6	1.2	0.6	0.6	0.6	1.2	1.2
FALL	Falling Number Minimum (seconds)	300	300	300	300	300	250	250
Defective Grains – Maximum tolerance as per method specified. Note: NIL tolerance applies to the entire load.								
Defective definitions are to be read in conjunction with the photo in the Visual Recognition Standards Guide which depicts the minimum standard for a grain to be classified as defective.								
SPRO	Sprouted Maximum (% by count per 300 Grain Sample) 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
STAN	Stained Maximum (% by count per 300 Grain Sample) A distinct dark brown to black discolouration on the germ end that, in severe cases, may progress to other parts of the grain such as the crease. Grains are commonly referred to as "black point" or "black tip". Includes any staining beyond the minimum and up to 50% of the entire grain surface. For staining level greater than 50%, refer to Field Fungi. Also includes adherence of contaminants such as soil, dust, plant parts and other material.	5% (15 grains)	15% (45 grains)	5% (15 grains)	10% (30 grains)	15% (45 grains)	15% (45 grains)	15% (45 grains)
PFUN	Pink Stained Maximum (% by count per 300 Grain Sample) Grains with distinct pink discolouration. Grains that are pink but also contain a white to light grey fungal like discolouration over more than approximately 50% of the seed coat surface are to be classified as "White Grain Disorder / Head Scab".	2% (6 grains)	5% (15 grains)	2% (6 grains)	2% (6 grains)	5% (15 grains)	5% (15 grains)	5% (15 grains)
WGDH	White Grain Disorder/Head Scab Maximum (% by count per 300 Grain Sample) Grains appear white to light grey but may also contain a pink discolouration. Discolouration must be over more than approximately 50% of the seed coat surface. If the discolouration is less than approximately 50% of the seed coat surface, grains may be classified as sound. Grains may also appear flaky with a white discolouration or resemble tombstones.	1% (3 grains)	1% (3 grains)	1% (3 grains)	1% (3 grains)	1% (3 grains)	1% (3 grains)	1% (3 grains)
GREE	Dry Green or Sappy Maximum (% by count per 300 Grain Sample)	1% (3 grains)	1% (3 grains)	1% (3 grains)	1% (3 grains)	5% (15 grains)	3% (9 grains)	5% (15 grains)
DIST	Distorted (% by count per 300 Grain Sample) Grains generally have the appearance of full sized kernels with little or no structure on both dorsal sides of the grain, and are typically grey to blue in colour. Does not include pinched grain.	1% (3 grains)	1% (3 grains)	1% (3 grains)	1% (3 grains)	5% (15 grains)	3% (9 grains)	5% (15 grains)
DAMI	Insect Damaged Maximum (% by count per 300 Grain Sample)	1% (3 grains)	1% (3 grains)	1% (3 grains)	1% (3 grains)	1% (3 grains)	3% (9 grains)	3% (9 grains)
ARTD	Over-Dried Damaged Maximum (% by count per 300 Grain Sample)	NIL	NIL	NIL	NIL	NIL	NIL	NIL
FFUN	Field Fungi Maximum (count per half litre) Individual kernels where more than half (50%) of the seed coat is discoloured. Discolouration can vary from dark grey, brown to black in colour. Grains that are approximately 50% or less discoloured are to be classified as Stained. Does not include Severely Damaged.	10	10	10	10	10	10	10
SEVE	Severely Damaged (count per half litre above 2.0mm screen) Mould, heat damaged/burnt, or other serious visual defects. Grains that have become severely discoloured. Grains appear reddish brown, dark brown, or in severe cases, blackened. Does not include Field Fungi.	1	1	1	1	1	1	1
SMUT	All Smuts (except Loose Smut) Maximum (entire load) Includes: Ball Smut, Stinking Smut, Bunt, Covered Smut.	NIL	NIL	NIL	NIL	NIL	NIL	NIL
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): Colocynthis, Double Gees/Spiny Emex/Three Corned Jack, Jute, Long Head Poppy, Mexican Poppy, Opium Poppy, Field Poppy, Horned Poppy, Wild Poppy, New Zealand Spinach, Parthenium Weed** (QLD only)	8*	8*	8*	8*	8*	8*	8*
WS2	TYPE(2): Castor Oil Plant, Coriander, Crow Garlic/ Wild Garlic, Darling Pea, Parthenium Weed** (NSW/VIC/SA), Peanut seeds and pods, Ragweed, Rattlepods, Starburr, St. John's Wort	NIL	NIL	NIL	NIL	NIL	NIL	NIL
WS3A	TYPE(3a): Bathurst Burr, Bellvine, Branched Broomrape, Bulls Head/Caltrop/Cats Head, Cape Tulip, Cottonseed, Dodder, Noogoora Burr, Thornapple	2	2	2	2	2	2	2
WS3B	TYPE(3b): Vetch (Tare), Vetch (Commercial)	4	4	4	4	4	4	4
WS3C	TYPE(3c): Heliotrope (Blue), Heliotrope (Common) ***Note: included in this 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
WS4	TYPE(4): Bindweed (Field), Cutleaf Mignonette, Darnel (Drake Seed), Hexham Scent/King Island Mellilot *** (only acceptable if no tainting odour is present), Hoary Cress, Mintweed, Nightshades, Paddy Melon, Skeleton Weed, Variegated Thistle	20	20	20	20	20	20	20
WS5	TYPE(5): Knapweed (Creeping/Russian), Sesbania Pea, Patterson's Curse/ Salvation Jane	40	40	40	40	40	40	40
WS6	TYPE(6): Colombus Grass, Johnson Grass, Saffron Thistle	10	50	10	10	10	10	10
WS7A	TYPE(7a): Adzuki Beans, Broad Beans, Chickpeas, Corn (Maize), Cowpea, Faba Beans, Lentils, Lupins, Peas (Field), Metic Pods, Safflower, Soybean, Sunflower and any other seeds or pods greater than 5mm in diameter. Includes Onion Weed Pods regardless of size	1	10	1	1	1	1	1
WS7B	TYPE(7b): Barley (2 & 6 row), Bindweed (Australian), Bindweed (Black), Brome Grass, Carrot Weed, Durum, Red/ Spring Feed Wheats, Oats (Black/Wild)*, Oats (Sand), Oats (Common), Rice, Rye (Cereal), Ryegrass on Stalk, Sorghum (Grain), Triticale, Turnip Weed Pods and any other Foreign Seeds not specified in Types 1-7(a), in SFS or in Unmillable Material Above the Screen that remain above the 2.0mm screen following the Screenings process.	50	150	50	50	50	50	50
SFS	Small Foreign Seeds maximum (% 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%	1.2%	0.6%	0.6%	0.6%	0.6%	0.6%
* Individual Seed Basis ** Parthenium Weed is a NIL tolerance in NSW/VIC/SA *** Hexham Scent is only acceptable if no tainting odour is present **** Heliotrope pods must be opened and the seeds counted								
Other Contaminants - Maximum tolerance as per method specified. Note: NIL tolerance applies to the entire load.								
PICK	Pickling Compounds Maximum (entire load)	NIL	NIL	NIL	NIL	NIL	NIL	NIL
CHEM	Chemicals Not Approved for Wheat Maximum (entire load)	NIL	NIL	NIL	NIL	NIL	NIL	NIL
ERGR	Ryegrass Ergot Maximum (length in cm when pieces are aligned per half litre)	2cm	2cm	2cm	2cm	2cm	2cm	2cm
ERGW	Cereal Ergot Maximum (count per half litre)	1	1	1	1	1	1	1
LIVE	Stored Grain Insects and Pea Weevils: Live Maximum (entire load)	NIL	NIL	NIL	NIL	NIL	NIL	NIL
INLG	Field Insects – Large, dead or alive Maximum (count per half litre)							
	Includes: Desiantha Weevil, Pea Weevil (dead only), 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
INSM	Field Insects – Small, dead or alive Maximum (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
SNAL	Snails (Live or Dead) Maximum (count per half litre)	1	1	1	1	1	1	1
EAR	Earcrocodile Maximum (count per half litre)	10	10	10	10	10	10	10
LSMT	Loose Smut Maximum (count per half litre)	3	3	3	3	3	3	3
SAND	Sand Maximum (count per half litre)	20	20	20	20	20	20	20
EART	Earth Maximum (count per half litre) Defined as a clod of dirt, being 5mm or less in diameter.	1	3	1	1	1	1	1
STON	Stones (g per 2.5L above 2.0mm screen) Maximum weight of all stones retained above a 2.0mm screen per 2.5L	4	4	4	4	4	4	4
OBJM	Objectionable Material Maximum (entire load)							
	Presence of meat meal, blood meal, fish meal, poultry offal meal or other animal proteins. Sticks/Stubble (>3cm in length and/or 1cm in diameter), glass, concrete, metal, fertiliser, animal excreta, animal carcasses, tainting agents or any other commercially unacceptable contaminant, odour or taste greater than the tolerance or specifications as allowed in these standards.	NIL	NIL	NIL	NIL	NIL	NIL	NIL
OFM	Other Foreign Material Maximum (% by weight) Includes fine material (dust and minerals), pieces of snail shell (<half), pieces of stored grain insects, other non-vegetative material not listed.	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%



SORGHUM STANDARDS 2020-2021

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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	SOR	SOR2
Description – Grain Sorghum of red, white and yellow varieties only.			
MOGR	Moisture maximum (%)	13.5	13.5
TWT	Test Weight minimum (kg/hl)	71	62
FGNM	Foreign Material maximum (% by weight) Includes chaff, trash and all material not already categorised specifically in the other definitions within the standard.	2.0	4.0
SCRN	Screenings maximum (% by weight) All matter passing through a 2.0mm slotted screen after 40 shakes.	11.0	25.0
Defective Grains – Maximum tolerance as per specified method. Defective definitions are to be read in conjunction with the photo in the Visual Recognition Standards Guide which depicts the minimum standard for a grain to be classified as defective.			
DFCT	Total Defective maximum (% by count per 300 Grain Sample) Includes Field Fungi, Sappy, Insect Damaged, Severely Damaged and Mould.	5% (15 grains)	25% (75 grains)
FFUN	OF WHICH Field Fungi maximum (% by count per 300 Grain Sample) Field Fungi refers to kernels affected by the growth of fungi on the seed coat. The fungal growth can vary in colour from white, to grey, to black. It does not refer to the more serious Moulds.	3% (9 grains)	10% (30 grains)
SPRO	Sprouted maximum (% by count per 300 Grain Sample) Not included in Total Defective Maximum.	3% (9 grains)	10% (30 grains)
SEVE	Severely Damaged (% by weight per half litre above 2.0mm screen) Heat damaged / bin burnt, diseased or other serious visual defects. Kernels have become severely discoloured. Grains appear dark brown or in severe cases, blackened.	0.5%	1.0%
MLD	Mould maximum (% by weight per half litre) Affected grains appear discoloured and visibly affected by mould.	0.05%	0.1%
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): Colocynthis, Double Gees/Spiny Emex/Three Cornered Jack, Jute, Long Headed Poppy, Mexican Poppy, Field Poppy, Horned Poppy, Wild Poppy, New Zealand Spinach, Parthenium Weed** (QLD only)	8*	8*
WS2	TYPE(2): Castor Oil Plant, Coriander, Crow Garlic/Wild Garlic, Darling Pea, Opium Poppy, Parthenium Weed **(NSW/VIC/SA), Peanut seeds and pods, Ragweed, Rattlepods, Starburr, St. John's Wort	NIL	NIL
WS3A	TYPE(3a): Bathurst Burr, Bellvine, Branched Broomrape, Bulls Head/Caltrop/Cats Head, Cape Tulip, Cottonseed, Dodder, Noogoora Burr, Thornapple/False Castor Oil	2	2
WS3B	TYPE(3b): Vetch (Blue/Tare) and Vetch (Commercial)	4	4
WS3C	TYPE(3c): Heliotrope (Blue), Heliotrope (Common) ****Note: included in this Type are tolerances for seeds or pods.	2 Pods / 8 Seeds	2 Pods / 8 Seeds
WS4	TYPE(4): Bindweed (Field), Cutleaf Mignonette seeds, Darnel, Hexham Scent/King Island Melilot***, Hoary Cress, Mintweed, Nightshades, Paddy Melon, Skeleton Weed, Variegated Thistle	20	20
WS5	TYPE(5): Knapweed (Creeping/Russian), Patterson's Curse/Salvation Jane, Sesbania pea	40	40
WS6	TYPE(6): Saffron Thistle	10	10
WS7A	TYPE(7a): Adzuki Beans, Broad Beans, Chickpeas, Corn (Maize), Cowpea, Faba Beans, Johnson Grass or Columbus Grass, Lentils, Lupin, Medic Pods, Peas (Field), Safflower, Soybean, Sunflower and any other seeds or pods greater than 5mm in diameter. Includes Onion Weed Pods regardless of size.	50	50
WS7B	TYPE(7b): Barley, Bindweed (Australian), Bindweed (Black), Brome Grass, Carrot Weed, Wheat, Durum, Oats (Black), Oats (Sand), Oats (Wild), Oats (Common), Rice, Rye (Cereal), Ryegrass on Stalk, Sorghum (Forage), Triticale, Turnip Weed Pod and any other weed seeds not specified in Types 1-7(a) or SFS	400	400
SFS	Small Foreign Seeds maximum (% by weight) All foreign seeds not specified in Types 1-7(b) that fall below the 2.0mm screen during the Screenings process.	1.6%	1.6%
* Individual seed basis ** Parthenium Weed is a NIL tolerance in NSW/VIC/SA *** Hexham Scent is only acceptable if no tainting odour is present ***** Heliotrope pods must be opened and the seeds counted			
Other Contaminants – Maximum tolerances as per method specified. Note: NIL tolerance applies to the entire load.			
SMUT	Cereal Smut maximum (entire load) Ball Smut, Gall Smut, Other Smut Species	NIL	NIL
ERGR	Cereal Ergot, Ryegrass Ergot maximum (entire load)	NIL	NIL
ERGS	Sorghum Ergot maximum (% by weight per half litre)	0.3%	0.3%
LIVE	Stored Grain Insects and Pea Weevils: Live maximum (entire load)	NIL	NIL
INLG	Field Insects – Large, dead or alive maximum (count per half litre) Includes: Desiantha Weevil, Pea Weevil (dead only), 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
INSM	Field Insects – Small, dead or alive maximum (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
SAND	Sand / Soil maximum (% by weight per half litre)	0.06%	0.06%
STON	Stones maximum (g per 2.5L above 2.0mm screen) Weight of all stones retained above a 2.0mm screen per 2.5L.	4	4
OBJM	Objectionable Material, Odours maximum (entire load) Sticks/stubble (>3cm in length and/or 1cm in diameter), glass, concrete, fertiliser, pickled grain or any other commercially unacceptable contaminant, smell or taste greater than the tolerance or specifications as allowed in these standards.	NIL	NIL
TEMP	Grain Temperature maximum (°C) Grain temperature ex grain dryer.	35°C	35°C
CHEM	Chemicals Not Approved for Sorghum maximum (entire load) Residues of any chemical compound not approved for grain sorghum, used in contravention of the labelled instructions or chemicals in excess of the Australian MRL.	NIL	NIL

NOTE: Honey Dew affected grain will only be accepted if the grain is able to flow freely through the grain chute before unloading.

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WHEAT STANDARDS 2020-2021

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Varietal Restrictions

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 & HPS1.

THIS CHART IS INTENDED TO ACT AS A GUIDE ONLY

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GrainCorp

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	AUH2	APW1	ASW1	AGP1	HPS1	FED1
MOGR	Moisture Maximum (%)	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	11.5	10.5	No Limit	No Limit	11.5	No Limit
TWT	Test Weight Minimum (kg/hl)	76	76	76	71	76	76	68	68	62
SCRN	Screenings (All Material Below the Screen) Maximum (% by weight) Material passing through a 2.0mm slotted screen after 40 shakes.	5.0	5.0	5.0	10.0	5.0	5.0	10.0	25.0	15.0
UNM	Unmillable Material Above the Screen Maximum (% by weight) Material other than wheat kernels remaining on top of a 2.0mm slotted screen after 40 shakes. This consists of whiteheads (with grains removed), chaff, backbone, Wild Radish pods, Milk Thistle pods, Skeleton Weed Flowers (Seed Heads), other seedpods and other light material which remains above the 2.00mm screen after a sample of grain is subjected to the screening process. It excludes contaminants for which tolerances have been stated in these standards.	0.6	0.6	0.6	1.2	0.6	0.6	1.2	2.6	2.6
FALL	Falling Number Minimum (seconds)	350	300	300	250	300	300	200	250	No Limit
Defective Grains – Maximum tolerance as per method specified. Note: NIL tolerance applies to the entire load.										
Defective definitions are to be read in conjunction with the photo in the Visual Recognition Standards Guide which depicts the minimum standard for a grain to be classified as defective.										
SPRO	Sprouted Maximum (% by count per 300 Grain Sample) The covering of the germ is split. It includes early and any further advanced stage of growth of the germ. Kernels exhibiting early stages of sprouting are those where the covering of the germ is split, but without further development of the shoot. Grains with pin holes are not included in this definition. 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	Stained Maximum (% by count per 300 Grain Sample) A distinct dark brown to black discoloration on the germ end that, in severe cases, may progress to other parts of the grain such as the crease. Grains are commonly referred to as "black point" or "black tip". Includes any staining beyond the minimum and up to 50% of the entire grain surface. For staining level greater than 50%, refer to Field Fungi. Also includes adherence of contaminants such as soil, dust, plant parts and other material.	5% (15 grains)	5% (15 grains)	5% (15 grains)	15% (45 grains)	5% (15 grains)	5% (15 grains)	15% (45 grains)	10% (30 grains)	50% (150 grains)
PFUN	Pink Stained Maximum (% by count per 300 Grain Sample) Grains with distinct pink discoloration. Grains that are pink but also contain a white to light grey fungal like discoloration over more than approximately 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	White Grain Disorder/Head Scab Maximum (% by count per 300 Grain Sample) Grains appear white to light grey but may also contain a pink discoloration. Discolouration must be over more than approximately 50% of the seed coat surface. If the discoloration is less than approximately 50% of the seed coat surface, grains may be classified as sound. Grains may also appear flaky with a white discoloration or resemble tombstones.	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)
GREE	Dry Green or Sappy Maximum (% by count per 300 Grain Sample)	1% (3 grains)	1% (3 grains)	1% (3 grains)	2% (6 grains)	1% (3 grains)	1% (3 grains)	5% (15 grains)	2% (6 grains)	No Limit
DIST	Distorted Maximum (% by count per 300 Grain Sample) Grains generally have the appearance of full sized kernels with little or no structure on both dorsal sides of the grain, and are typically grey to blue in colour. Does not include pinched grain.	1% (3 grains)	1% (3 grains)	1% (3 grains)	2% (6 grains)	1% (3 grains)	1% (3 grains)	10% (30 grains)	2% (6 grains)	No Limit
DAMI	Insect Damaged Maximum (% by count per 300 Grain Sample)	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 Maximum (% by count per 300 Grain Sample)	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	No Limit
FFUN	Field Fungi Maximum (count per half litre) Individual kernels where more than half (50%) of the seed coat is discoloured. Discolouration can vary from dark grey, brown to black in colour. Grains that are approximately 50% or less discoloured are to be classified as Stained. Does not include Severely Damaged.	10	10	10	10	10	10	10	20	40
SEVE	Severely Damaged (count per half litre above 2.0mm screen) Mould, heat damaged/burnt, or other serious visual defects. Grains that have become severely discoloured. Grains appear reddish brown, dark brown, or in severe cases, blackened. Does not include Field Fungi.	1	1	1	1	1	1	1	1	5
SMUT	All Smuts (except Loose Smut) Maximum (entire load) Includes: Ball Smut, Stinking Smut, Bunt, Covered Smut.	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
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): Colocynthis, Double Gees/Spiny Emex/Three Cornered Jack, Jute, Long Head Poppy, Mexican Poppy, Opium Poppy, Field Poppy, Horned Poppy, Wild Poppy, New Zealand Spinach, Parthenium Weed** (QLD only)	8*	8*	8*	8*	8*	8*	8*	8*	8*
WS2	TYPE(2): Castor Oil Plant, Coriander, Crow Garlic/ Wild Garlic, Darling Pea, Parthenium Weed** (NSW/VIC/SA), Peanut seeds and pods, Ragweed, Rattlepods, Starburr, St. John's Wort	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
WS3A	TYPE(3a): Bathurst Burr, Bellvine, Branched Broomrape, Bulls Head/Caltrop/Cats Head, Cape Tulip, Cottonseed, 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 this 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/King Island Mellilot** (only acceptable if no tainting odour is present), Hoary Cross, Mintweed, Nightshades, Paddy Melon, Skeleton Weed, Variegated Thistle	20	20	20	20	20	20	20	20	20
WS5	TYPE(5): Knapweed (Creeping/Russian), Sesbania Pea, Patterson's Curse/ Salvation Jane	40	40	40	40	40	40	40	40	40
WS6	TYPE(6): Columbus Grass, Johnson Grass, Saffron Thistle	10	10	10	50	10	10	50	50	50
WS7A	TYPE(7a): Adzuki Beans, Broad Beans, Chickpeas, Corn (Maize), Cowpea, Faba Beans, Lentils, Lupins, Medic Pods, Peas (Field), Safflower, Soybean, Sunflower and any other seeds or pods greater than 5mm in diameter. Includes Onion Weed Pods regardless of size.	1	1	1	10	1	1	10	10	100
WS7B	TYPE(7b): Barley (2 & 6 row), Bindweed (Australian), Bindweed (Black), Brome Grass, Carrot Weed, Durum (unlimited in FED1), Red/Spring Feed Wheats (unlimited in FED1), Oats (Black/Wild)*, Oats (Sand), Oats (Common), Rice, Rye (Cereal), Ryegrass on Stalk, Sorghum (Grain), Triticale, Turnip Weed Pod and any other Foreign Seeds not specified in Types 1-7(a), in SFS or in Unmillable Material Above the Screen that remain above the 2.0mm screen following the Screenings process.	50	50	50	150	50	50	150	150	400
SFS	Small Foreign Seeds maximum (% 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%	1.2%
*Individual Seed Basis ** Parthenium Weed is a NIL tolerance in NSW/VIC/SA ****Hexham Scent is only acceptable if no tainting odour is present ***** Heliotrope pods must be opened and the seeds counted										
Other Contaminants - Maximum tolerance as per method specified. Note: NIL tolerance applies to the entire load.										
PICK	Pickling Compounds Maximum (entire load)	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
CHEM	Chemicals Not Approved for Wheat Maximum (entire load)	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
ERGR	Ryegrass Ergot Maximum (length in cm when pieces are aligned per half litre)	2cm	2cm	2cm	2cm	2cm	2cm	2cm	2cm	2cm
ERGW	Cereal Ergot Maximum (count per half litre)	1	1	1	1	1	1	1	1	1
LIVE	Stored Grain Insects and Pea Weevils: Live maximum (entire load)	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
INLG	Field Insects – Large, dead or alive Maximum (count per half litre) Includes: Desiantha Weevil, Pea Weevil (dead only), 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 Maximum (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) Maximum (count per half litre)	1	1	1	1	1	1	10	5	10
EAR	Earcrocks Maximum (count per half litre)	10	10	10	10	10	10	15	10	50
LSMT	Loose Smut Maximum (count per half litre)	3	3	3	3	3	3	3	3	3
SAND	Sand Maximum (count per half litre)	20	20	20	50	20	20	50	50	50
EART	Earth Maximum (count per half litre) Defined as a clod of dirt, being 5mm or less in diameter.	1	1	1	3	1	1	3	1	6
STON	Stones (g per 2.5L above 2.0mm screen) Maximum weight of all Stones retained above a 2.0mm screen per 2.5L.	4	4	4	4	4	4	4	4	4
OBJM	Objectionable Material Maximum (entire load) Presence of meat meal, blood meal, fish meal, poultry offal meal or other animal proteins. Sticks/Stubble (>3cm in length and/or 1cm in diameter), glass, concrete, metal, fertiliser, animal excreta, animal carcasses, tainting agents or any other commercially unacceptable contaminant, odour or taste greater than the tolerance or specifications as allowed in these standards.	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
OFM	Other Foreign Material Maximum (% by weight) Includes fine material (dust and minerals), pieces of snail shell (<half), pieces of stored grain insects, other non-vegetative material not listed.	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.2%