



GrainCorp

BARLEY STANDARDS 2020-2021

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THIS CHART IS INTENDED TO ACT AS A GUIDE ONLY

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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	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