SECTION 3 GRAIN QUALITY STANDARDS

The following tables represent the grades of sorghum as defined in this Manual.

To fully understand and accurately implement the sorghum Quality Standards, reference should be made to other relevant sections in this Sorghum Manual including:

- Definitions
- Varietal Master List
- Methods & Procedures
- Reference materials such as the Visual Recognition Standards Guide

Other sections of the GTA Standards Manual should also be perused for general guidance on activities associated with implementation of these Standards.

As stated previously, the following Standards are applicable at the time of publishing of this Manual. Variations and new Grades may exist and industry is encouraged to keep updated with changes via reviewing the GTA website and other relevant industry information sources.

Effective: 1	ORGHUM No.1 August 2017	Standard Reference No. CSG-1 Season: 2017/18
PARAMETER	SPECIFICATION	COMMENT / VARIATION
Description	n/a	Grain Sorghum of Red, White or Yellow varieties only
Moisture Max (%)	13.5	
Test Weight Min (kg/hl)	71.0	All mostion other than almost consider district Chandred
Foreign Material Max (% by wt)	2.0	All matter other than already specified in this Standard
Screenings Max (% by wt)	11.0	All matter passing through a 2.0mm slotted screen – 40 shakes in the direction of the slots
DEFECTIVE GRAINS Max (%	by count, 300 grain sa	mple, unless otherwise stated)
Total Defective, of which		Includes Field Fungi, Sappy, Insect Damaged, Severely Damaged and Mould
Field Fung	3.0	
Severely Damaged (% by weight per half litre)	1 05	Heat damaged / bin burnt, diseased or other serious visual defects
Mould (% by weight per half litre		
Sprouted	3.0	Not included in Total Defective
FOREIGN SEED CONTAMIN	ANTS Max - (count of a	seeds in total per half litre unless otherwise stated)
Type 1 (Individual seed basis)	8	Colocynth, 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)
Type 2 (entire load)	Nil	Castor Oil Plant, Coriander, Crow Garlic/Wild Garlic, Darling Pea, Opium Poppy, Peanut seeds and pods, Ragweed, Rattlepods, Starburr, St. John's Wort
Туре 3 (а)	2	Bathurst Burr, Bellvine, Branched Broomrape, Bulls Head/Caltrop/Cats Head, Cape Tulip, Cottonseed, Dodder, Noogoora Burr, Thornapple/False Castor Oil
Type 3 (b)	4 2 made / 2 made	Vetch (Blue/Tare) and Vetch (Commercial)
Type 3 (c) Type 4(a)	2 pods / 8 seeds 20	Heliotrope (Blue), Heliotrope (Common) Bindweed (Field), Cutleaf Mignonette seeds or pods, Damel, Hexham Scent/King Island Melilot (Hexham Scent is only acceptable if no tainting odour is present), Hoary Cress, Mintweed, Nightshades, Paddy Melon, Skeleton Weed, Variegated Thistle
Type 5	40	Knapweed (Creeping/Russian), Patterson's Curse/Salvation Jane,
· · · · · · · · · · · · · · · · · · ·	-	Sesbania pea
Type 6 Type 7 (a)	50	Saffron Thistle Broad Beans, Chickpeas, Corn (Maize), Cowpea, Faba Beans, Johnson Grass or Colombus Grass, Lentils, Lupin, Peas (Field), Safflower, Soybean, Sunflower and any other seeds or pods greater than 5mm in diameter
Type 7 (b)	400	Barley, Bindweed (Australian), Bindweed (Black), Wheat, Durum, Oats (Black), Oats (Sand), Oats (Wild), Oats (Common), Rice, Rye (Cereal), Sorghum (Forage), Triticale, Turnip Weed and any other weed seeds not specified in Types 1-7(a) or SFS
Small Foreign Seeds (% by weight)	1.6	All foreign seeds not specified in Types 1-7(b) that fall below the
• , , ,		2.0mm screen during the Screenings process
OTHER CONTAMINANTS Ma	ax - (count per half litre,	
Cereal Smut (entire load)	Nil	Ball and Gall Smut or any other smut species
Cereal Ergot (entire load)	Nil	Pieces or whole affected kernels of all cereal ergots except Sorghum Ergot
Sorghum Ergot (% by weight)	0.3	Claviceps africana and Cerebella sclerotes
Ryegrass Ergot (entire load)	Nil	
Stored Grain insects & Pea Weevils – Live (entire load)	Nil	All life stages
Insects – Large	3	Dead or alive
Insects – Small	10	Dead or alive
Sand/Soil (% by weight)	0.06	
Stones (g per 2.5L)	4.0	Maximum total weight of all Stones retained above the 2.0mm screen per 2.5L
Objectionable Material (entire load)	Nil	Sticks, glass, concrete, pickled grain, artificial colouring or any other commercially unacceptable contaminant
Odour (entire load)	Nil	Grain which has any commercially foreign odour due to tainting agents or improper storage causing mould, souring or musty odours
Maximum Temperature (°c)	35	Grain temperature ex grain dryer
Chemicals Not Approved for Sorghum (entire load)	Nil	Residues of any chemical compound not approved for grain sorghum, used in contravention of the labelled instructions or chemicals in excess of the MRL

Effective:	SORGHUM No.2 1 August 2017	Standard Reference No. CSG-2 Season: 2017/18
PARAMETER	SPECIFICATION	COMMENT / VARIATION
Description	n/a	Grain Sorghum of Red, White or Yellow varieties only
Moisture Max (%)	13.5	
Test Weight Min (kg/hl)	62.0	
Foreign Material Max (% by wt)	4.0	All matter other than already specified in this Standard
Screenings Max (% by wt)	25.0	All matter passing through a 2.0mm slotted screen – 40 shakes in the direction of the slots
DEFECTIVE GRAINS Max (%)	by count, 300 grain sa	
Total Defective of which	25.0	Includes Field Fungi, Sappy, Insect Damaged, Severely Damaged and Mould
Field Fungi	10.0	
Severely Damaged (% by weight per half litre)	1.0	Heat damaged / bin burnt, diseased or other serious visual defects
Mould (% by weight per half litre)	0.1	
Sprouted	10.0	Not included in Total Defective
FOREIGN SEED CONTAMINA	NTS Max - (count of s	seeds in total per half litre unless otherwise stated)
Type 1 (Individual seed basis)	8	Colocynth, 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)
Type 2 (entire load)	Nil	Castor Oil Plant, Coriander, Crow Garlic/Wild Garlic, Darling Pea, Opium Poppy, Peanut seeds and pods, Ragweed, Rattlepods, Starburr, St. John's Wort Bathurst Burr, Bellvine, Branched Broomrape, Bulls
Type 3 (a)	2	Head/Caltrop/Cats Head, Cape Tulip, Cottonseed, Dodder, Noogoora Burr, Thornapple/False Castor Oil
Type 3 (b) Type 3 (c)	4 2 pods / 8 seeds	Vetch (Blue/Tare) and Vetch (Commercial) Heliotrope (Blue), Heliotrope (Common)
Type 4(a)	20	Bindweed (Field), Cutleaf Mignonette seeds or pods, Damel, Hexham Scent/King Island Melilot (Hexham Scent is only acceptable if no tainting odour is present), Hoary Cress, Mintweed, Nightshades, Paddy Melon, Skeleton Weed, Variegated Thistle
Type 5	40	Knapweed (Creeping/Russian), Patterson's Curse/Salvation Jane, Sesbania pea
Type 6	10	Saffron Thistle
Type 7 (a)	50	Broad Beans, Chickpeas, Corn (Maize), Cowpea, Faba Beans, Johnson Grass or Colombus Grass, Lentils, Lupin, Peas (Field), Safflower, Soybean, Sunflower and any other seeds or pods greater than 5mm in diameter
Type 7 (b)	400	Barley, Bindweed (Australian), Bindweed (Black), Wheat, Durum, Oats (Black), Oats (Sand), Oats (Wild), Oats (Common), Rice, Rye (Cereal), Sorghum (Forage), Triticale, Turnip Weed and any other weed seeds not specified in Types 1-7(a) or SFS
Cmall Farsian Canda (0) household	4.0	All foreign seeds not specified in Types 1-7(b) that fall below the
Small Foreign Seeds (% by weight)	1.6	2.0mm screen during the Screenings process
OTHER CONTAMINANTS Max		
Cereal Smut (entire load) Cereal Ergot (entire load)	Nil Nil	Ball and Gall Smut or any other smut species Pieces or whole affected kernels of all cereal ergots except
Sorghum Ergot (% by weight)	0.3	Sorghum Ergot Claviceps africana and Cerebella sclerotes
Ryegrass Ergot (entire load)	Nil	Statioope amound and Octobella solerotes
Stored Grain insects & Pea Weevils	Nil	All life stages
Live (entire load)Insects – Large	3	Dead or alive
Insects – Large Insects – Small	10	Dead or alive
Sand/Soil (% by weight)	0.06	Don't direct
Stones (g per 2.5L)	4.0	Maximum total weight of all Stones retained above the 2.0mm screen per 2.5L
Objectionable Material (entire load)	Nil	Sticks, glass, concrete, pickled grain, artificial colouring or any other commercially unacceptable contaminant
Odour (entire load)	Nil	Grain which has any commercially foreign odour due to tainting agents or improper storage causing mould, souring or musty odours
Maximum Temperature (°c)	35	Grain temperature ex grain dryer
Chemicals Not Approved for Sorghum (entire load)	Nil	Residues of any chemical compound not approved for grain sorghum, used in contravention of the labelled instructions or chemicals in excess of the MRL