

Visual Recognition Standards Guide

FOR GRAIN COMMODITY SAMPLING & ASSESSMENT

Issued 1st August 2025



Visual Recognition Standards Guide. Issued 1st August 2025

Grain Trade Australia (GTA)

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INTRODUCTION

Defective Grains

This guide is produced to assist samplers and assessors of grain in the determination of defective grains which are covered by the Grain Trade Australia (GTA) and the Australian Oilseeds Federation (AOF) Standards.

All images in this guide (unless otherwise identified) are defective. These photographs depict the minimum standard for a grain to be assessed as defective. If a grain defect does not meet the physical attributes depicted in the photograph, it is to be assessed as sound. Unless otherwise stated, the grain defect may only appear on one side. That is, the photographs depict the minimum to be assessed as defective, and only needs to be present on one side (unless otherwise stated).

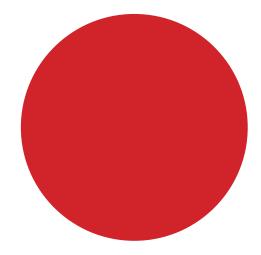


Pictures shown at this size are an approximate size of the original grain only. These pictures are enlarged to assist in illustration of the defect.

Calibration

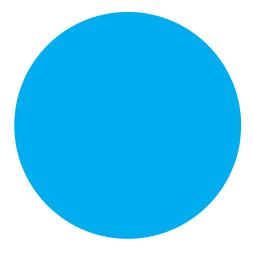
A calibration sheet is provided for those who are downloading and printing these guides. Careful calibration of these photographs is vital as monitors and printers may vary.

DOCUMENT CALIBRATION



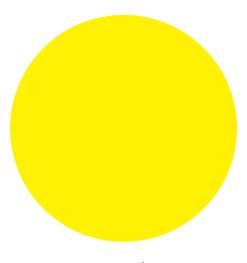
CMYK Value: C=0 M=100 Y=0 K=0

Minolta Value: L= 48.59 a= +51.21 b= +31.27



CMYK Value: C=100 M=0 Y=0 K=0

Minolta Value: L= 55.41 a= -17.28 b= -43.99



CMYK Value: C=0 M=0 Y=100 K=0

Minolta Value: L= 87.53 a= -10.50 b= +80.56

NOTE: The hardware (monitor, graphics card, etc.) used to display the images in Inspector Standardisation content influences the appearance of the images. As a result the images may have a slightly different appearance when viewed on different makes/models of computer and display. These images were created using a Dino-Lite Edge 5MP AM7915, calibrated LCD display with 1680x1050, 32 Bit, 60 Hz resolution and the following calibration settings:

Brightness: 0

Contrast: 50

Gamma: 1.0

Hue: 0

Saturation: 0

The VRSG should be viewed using a computer with digital video (DVI) output and an EIZO CG19, EIZO S1921, EIZO S1932, EIZO S1961, or EIZO CE210W display.

Paper Type for Printing: Brand: Office Elements

GSM: 80gsm

Colour: White

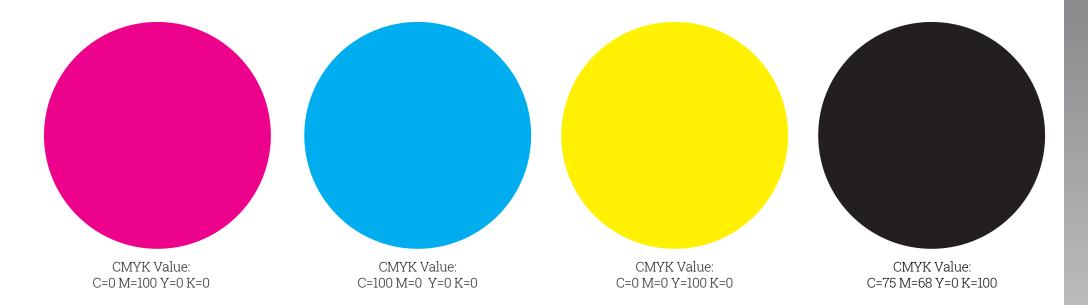
Laminate material:

Brand: OfficeMax 125 Micron laminating pouches

Re-Order Code: 1950630

Disclaimer: The mention of firm names or trade products does not imply that they are endorsed or recommended.

PRINTER CALIBRATION



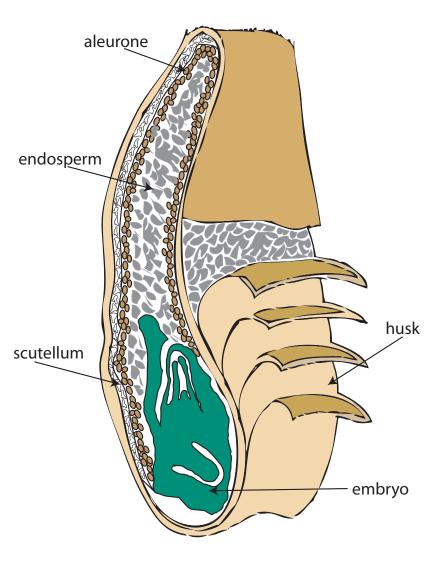
NOTE: This page is specifically for use by a commercial printer.

Paper Type for Printing: Brand: Office Elements GSM: 80gsm Colour: White

Laminate material: Brand: OfficeMax 125 Micron laminating pouches Re-Order Code: 1950630

Disclaimer: The mention of firm names or trade products does not imply that they are endorsed or recommended.

BARLEY



Sound

Barley Grain

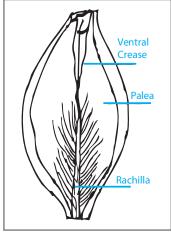


BARLEY: VARIETAL IDENTIFICATION

Definition: The main characteristic used in identifying barley varieties is the length of the hairs on the Rachilla. The Rachilla is white in colour and found running along the grain furrow from the germ end. There are two main types of Rachilla hair length, long hairs and short woolly hairs.

Scope CL





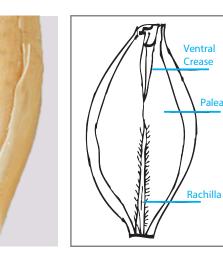
Long

Common Varieties include:

Bass
Baudin
Bottler
Commodus CL
Compass
Fairview
Fathom
Grout

Kiwi Leabrook Maximus CL Minotaur

Long



Common Varieties include:

Alestar
Buff
Commander
Cyclops
Fleet Australia
Flinders
Gairdner
GrangeR
Hindmarsh
Laperouse
La Trobe

Neo CL

RGT Planet Schooner Spartacus CL Westminster Zena CL

Awn End of Grain





Dorsal (Back)

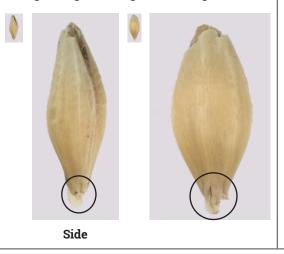
Ventral (Front)

Germ End of Grain

Short Short

Sprouted

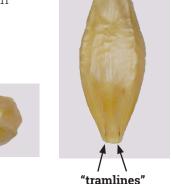
Definition: Sprouted grains are those with any visible evidence of the shoot or root system beginning to emerge from the germ.



Shot

Definition: Grains exhibiting the following outward signs of having commenced germination are classified as Shot:

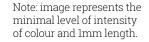
- Opening of the grain at the germ end and/or
- The husk has 'tramlines' on both sides where the husk has begun to lift on each side on the back of the grain at the germ end.





Dark Tipped (Germ End Stained-WA)

Definition: Grains exhibit a distinct brown to black discolouration. This mainly occurs at the germ end of the grain, however in severe cases it may progress to other parts of the grain. Discolouration originating at the awn end is not Dark Tipped, refer to Severely Damaged. Dark tipping equal to or greater than 1mm is classified as defective grain.





Sound



Defective

Skinnings (Skinned-WA)

Definition: Damage to the protective husk of the barley. Usually caused by mechanical damage to the grain during harvesting.

Each grain exhibiting one or more of the following characteristics is assessed as a skinned grain -

- Skinning 1/3 or more of the total surface area of the husk is missing.
- Germ Exposed The husk is removed from the germ end of the grain or been damaged other than Shot or Sprouted or the germ itself has been removed.
- Kernels may or may not be dark under the husk.





Ventral (Front)





Germ Exposed Da

Dark Under Husk

Cleaved (front, back and side)

Definition: Refers to any damage to the grain exposing the white endosperm. Any visible cleaving is considered defective. It includes but is not limited to -

- A split along the crease or a split down the back, front or side of the grain exposing the white endosperm.
- Grains that are swollen but smaller in size than normal, are sometimes fused in groups of 2 or 3 and are split to reveal the inner endosperm (sometimes identified as hormonal damage).
- Kernels may or may not have a pink discologration











Side Hormonal Damage

Distorted

Definition: Grain which is collapsed on the dorsal side. Grains may also appear orange in colour.



Dry Green or Sappy

Definition Dry Green: Grain surface is distinctly green. Grains are usually dry and hard.

Sound

Definition Sappy: Grains are generally soft when pressed. They may or may not be green. Any level of sappiness is classified as defective.



Dry Green

Broken

Definition: Grain that has 1/3 or more missing from the Kernel.

Defective



Broken

Heavily Discoloured-WA

Definition: Staining is dark in appearance. Usually affects more than the germ end.



Pink Fungal

Definition: Orange, pink to red discolouration found anywhere on the surface. Grains appear healthy otherwise.





Field Fungi (Spotted/Field Fungi Affected-WA)

Definition: Refers to individual kernels -

- 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 or brown surface discolouration on the kernel and/or husk.







Black Spotting



Grey Discolouration



Discolouration on Kernel

Severely Damaged inc. Fusarium (except WA)

Definition: Damage to the grain causing it to become severely discoloured. A grain exhibits one or more of the following characteristics -

Burnt / Heat Damaged:

Heat Damaged or Burnt refers to those kernels that have become discoloured. Affected grains appear dark brown, or in severe cases, blackened. May also appear discoloured under the husk on the kernel.

Mould:

Affected grains appear discoloured and visibly affected by mould.

Diseased / Other Serious Visual Defects:

Refers to those kernels that have become significantly discoloured and/or have a serious visual defect that is not otherwise listed in these Standards. It includes grains affected by Fusarium (except WA).

Does not include Field Fungi affected grains, refer to Field Fungi.











BARLEY: CONTAMINANTS/DEFECTS

Coloured Aleurone Layer (Blue or Black)

Definition: Grains which have a coloured aleurone layer in the kernel. The colour is

generally blue or black.

It includes any blue or black colour to any degree that is obvious under the bran layer.

Also includes black hulled varieties.







Black Hulled

Insect Damaged

Definition: Any visible insect damage penetrating through to the white endosperm.





Pickling Compounds or Artificial Colour (Pickled Barley-WA)

Definition: An unnatural surface colour and/or colour, normally associated with a Pickling Compound that rubs off.

Any grains that are artificially coloured, regardless of intensity, are defective.

Note: These photographs are to illustrate artificial colours and appearance only.

A nil tolerance applies to any pickling compounds/contaminants, regardless of intensity or coverage or colour.













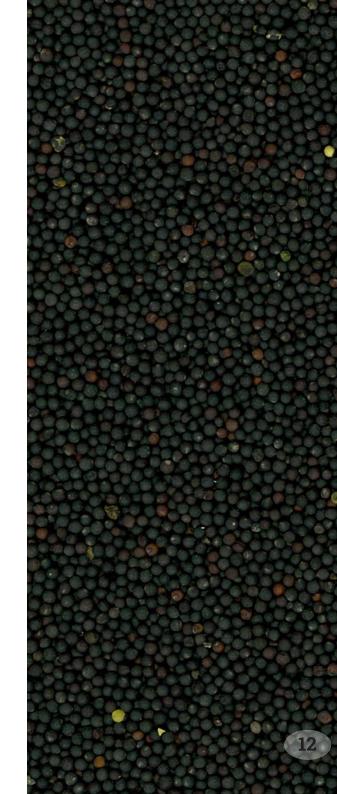




CANOLA



Sound



CANOLA: COMMON DEFECTS

Broken or Split

Definition: All hulls, kernels or parts thereof, not otherwise damaged shall be classified as split or broken seed (except fines classified as Impurities). Any level of damage is classified as defective. This includes Insect Damaged.



Heat Damaged

Definition: Seeds and pieces of seed that are materially discoloured and damaged by heat. Seeds may have a heated odour or a brown powdery appearance when crushed.





Sound Crushed

Defective Crushed

Sprouted

Definition: The seed coat has split and the primary root has emerged. This includes early and any further advanced stage of growth of the primary root. Includes grains where the primary root has been knocked off during the harvesting or handling process. Seed has visibly swelled and enlarged.



Weather Damaged

Definition: Weather damaged seeds are classified under Damaged Seeds. Weather damaged seeds are those that have been subjected to rain during the matuation phase to the extent they have become Weather Damaged. When seeds are crushed, they may have a grey washed out appearance and a chalky texture.



Sound Crushed



Defective Crushed

CANOLA: COMMON DEFECTS

Discoloured Seed Coat

Definition: Seed coat that is distinctly off colour from the characteristic brown/reddish-brown colour of canola seed. This includes, but not limited to, the presence of mould or field fungi.



Frost Damaged

Definition: Frost damaged seeds are included in Impurities. Frost damaged seeds are included in admixture (WA).



Green Seeds

Definition: Green seeds are those that are distinctly green when crushed. Seeds that are yellow-green are not considered green.

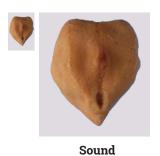


Sound CrushedYellow or Yellow-Green when crushed



Defective CrushedGreen Seed – distinctly green when crushed

CHICKPEAS, DESI





Severely Damaged

Definition: Damage to the grain causing it to become severely discoloured. A grain exhibits one or more of the following characteristics -

Burnt / Heat Damaged:

Heat Damaged or Burnt refers to those grains that have become severely discoloured. Affected grains appear dark brown, or in severe cases, blackened.

Mould:

Affected grains appear discoloured and visibly affected by mould.

Diseased / Other Serious Visual Defects:

Refers to those grains that have become significantly discoloured and/or have a serious visual defect that is not otherwise listed in these Standards.



Sound -Refer Stained and Weather Damaged.







Mould



Mould

Broken, Chipped, Loose Seed Coat and Split

Definition: Breakage, cracking, peeling or splitting of the seed coat or chipping and splitting of the kernel in various forms as follows -

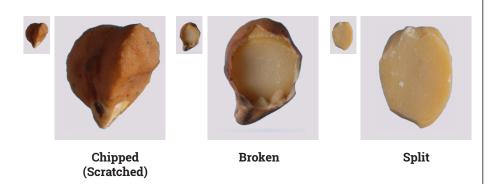
Seed Coat:

- Split Seed Coat A split in the seed coat running more than half the entire length or across more than half the entire width on one or both sides.
- Skin Damaged A hole in the seed coat where more than 20% of the seed coat on any one side is missing.
- Loose Seed Coat (Peeling) Where the seed coat is visibly falling off the kernel to any extent and not adhering tightly to the kernel.
- Missing Seed Coat Where the entire seed coat is missing but the kernel remains intact.



Kernel:

- Chipped (Scratched) A part of the kernel is damaged or removed.
- Broken A split kernel with the seed coat still attached.
- Split A split kernel with no seed coat attached.



Insect Damaged

Definition: Any visible insect damage to the grain is to be classified as defective. Includes insect eggs of all Stored Grain Insect species on the Seed Coat surface, whether those eggs may be live or dead and in any number.

Sprouted

Definition: The seed coat has split and the primary root has emerged. This includes early and any further advanced stage of growth of the primary root. Includes grains where the primary root has been knocked off.







Stored Grain Insect Egg



Hail Damaged

Definition: Any damage to the seed coat or kernel is classified as defective. Damage to the seed coat can appear as bruising (darkening) or in more severe cases splitting of the seed coat. This may cause discolouration and damage to the kernel. Damage to the kernel can vary from bruising (darkening) to physical damage such as crushing of the entire kernel.











Shrivelled and Wrinkled

Definition: Visible damage to the seed coat or size and shape of grain whereby the grains are severely distorted and/or shrunken. A distinct ridge (often described as mountains and valleys) on the seed coat must be present to be classified as Shrivelled & Wrinkled. Ridges may be described as coarse waves rather than soft waves. Seed coats may be wrinkled or dimpled and distinctly indented into the kernel. Seed coats may show a level of discolouration depending on the extent of damage. Grains are often smaller than the majority in the sample.





Green

Definition: Green is included in Poor Colour.

Seed Coat:

Seed coat appears green. More than a slight greenish tinge must be present on the seed coat to be classified as defective.

Where any greenish tinge is present on the seed coat, it is recommended the kernel also be inspected.

Kernel: Any level of green is classified as defective.





Green Kernel

Pickling Compounds or Artificial Colour

Definition: An unnatural surface colour and/or colour, normally associated with a Pickling Compound that rubs off. Any grains that are artificially coloured, regardless of intensity, are defective.

Note: These photographs are to illustrate artificial colours and appearance only. A **nil tolerance** applies to any pickling compounds/contaminants, regardless of intensity or coverage or colour.



Poor Colour

Definition: Green is included in Poor Colour. Stained and Weather Damaged is included in Poor Colour. Fungal Affected is included in Poor Colour.

Seed Coat:

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 Severely Damaged.

Where any poor colour is present on the seed coat, it is recommended the kernel also be inspected. Poor Colour kernel can only be assessed if the seed coat is removed.



Defective

Kernel:

Any level of discolouration on the kernel is classified as defective.



Not Poor Colour Kernel. Refer Poor Colour Seed Coat.







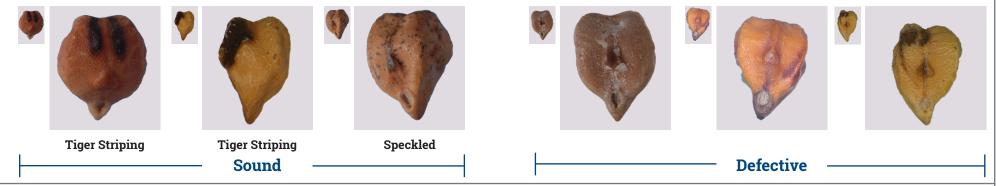
Defective Kernel, therefore this is classified as Poor Colour.

Stained and Weather Damaged

Definition: Stained and Weather Damaged is included in Poor Colour.

A general term used to describe visible damage to the seed coat that may or may not otherwise be defined or be distinguishable from other defects in the Standards. Seed coats may be discoloured or altered in size or shape. Weather Damage may also lead to a Loose Seed Coat or Shrivelled and Wrinkled.

Any degree of Tiger Striping or Speckled is not considered Poor Colour, but is considered sound. Tiger Striping or Speckling on the kernel is to be classified as Poor Colour Kernel.

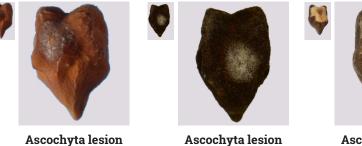


Fungal Affected (e.g. Ascochyta)

Definition: Fungal Affected is included in Poor Colour.

Lesions are generally visible to the naked eye and appear intense dark brown to black. The lesion may be similar in colour to Severely Damaged or Stained and Weather Damaged.

Any lesion of any size is permitted provided it is not also present on the kernel. If the lesion is greater than approximately 20%, but does not penetrate to the kernel the grain is classified as Stained and Weather Damaged.



CHICKPEAS, KABULI



Sound



CHICKPEAS, KABULI: COMMON DEFECTS

Poor Colour

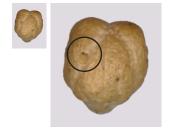
Definition: Seed coats vary from dark brown to black, but may be depicted by other colours. Seed coats may be similar in appearance to various other defects such as Severely Damaged.

Where any poor colour is present on the seed coat, it is recommended the kernel also be inspected.



Insect Damaged

Definition: Any visible insect damage to the grain is to be classified as defective. Includes insect eggs of all Stored Grain Insect species on the Seed Coat surface, whether those eggs may be live or dead and in any number.



CHICKPEAS, KABULI: COMMON DEFECTS

Broken, Chipped, Loose Seed Coat and Split

Definition: Breakage, cracking, peeling or splitting of the seed coat or chipping and splitting of the kernel in various forms as follows -

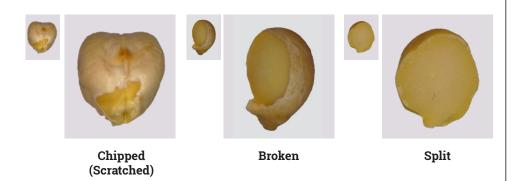
Seed Coat:

- Split Seed Coat A split in the seed coat running more than half the entire length or across more than half the entire width on one or both sides.
- Skin Damaged A hole in the seed coat where more than 20% of the seed coat on any one side is missing.
- Loose Seed Coat (Peeling) Where the seed coat is visibly falling off the kernel to any extent and not adhering tightly to the kernel.
- Missing Seed Coat Where the entire seed coat is missing but the kernel remains intact.



Kernel:

- Chipped (Scratched) A part of the kernel is damaged or removed.
- Broken A split kernel with the seed coat still attached.
- Split A split kernel with no seed coat attached



CHICKPEAS, KABULI: COMMON DEFECTS

Severely Damaged

Definition: Damage to the grain causing it to become severely discoloured. A grain exhibits one or more of the following characteristics:

Burnt / Heat Damaged:

Heat Damaged or Burnt refers to those grains that have become severely discoloured. Affected grains appear dark brown, or in severe cases, blackened.

Mould:

Affected grains appear discoloured and visibly affected by mould.

Diseased / Other Serious Visual Defects:

Refers to those grains that have become significantly discoloured and/or have a serious visual defect that is not otherwise listed in these Standards



Sprouted

Definition: The seed coat has split and the primary root has emerged This includes early and any further advanced stage of growth of the primary root. Includes grains where the primary root has been knocked off



Shrivelled and Wrinkled

Definition: Visible damage to the seed coat or size and shape of grain whereby the grains are severely distorted and/or shrunken. A distinct ridge (often described as mountains and valleys) on the seed coat must be present to be classified as Shrivelled & Wrinkled. Ridges may be described as coarse waves rather than soft waves. Seed coats may be wrinkled or dimpled and distinctly indented into the kernel. Seed coats may show a level of discolouration depending on the extent of damage. Grains are often smaller than the majority in the sample.







Sound

Defective

Defective

25

FABA BEANS

**Where applicable, Broad Beans should be assessed using Faba Bean visual images.



Sound



Burnt / Heat Damaged

Mould

FABA BEANS: COMMON DEFECTS

Severely Damaged

Definition: Damage to the grain causing it to become severely discoloured. A grain exhibits one or more of the following characteristics -

Burnt / Heat Damaged:

Heat Damaged or Burnt refers to those grains that have become severely discoloured. Affected grains appear dark brown, or in severe cases, blackened.

Mould:

Affected grains appear discoloured and visibly affected by mould.

<u>Diseased / Other Serious Visual Defects:</u>

Refers to those grains that have become significantly discoloured and/or have a serious visual defect that is not otherwise listed in these Standards.



Sound

Burnt / Heat Damaged

Burnt / Heat Damaged

Other Serious
Visual Defect

Shrivelled and Wrinkled

Definition: Visible damage to the seed coat or size and shape of grain whereby the grains are severely distorted and/or shrunken. A distinct ridge (often described as mountains and valleys) on the seed coat must be present to be classified as Shrivelled & Wrinkled. Ridges may be described as coarse waves rather than soft waves. Seed coats may be wrinkled or dimpled and distinctly indented into the kernel. Seed coats may show a level of discolouration depending on the extent of damage. Grains are often smaller than the majority in the sample.















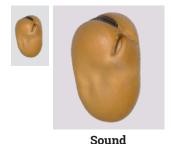
Sound

Defective

Sprouted

Definition: Seed coat has split and the primary root has emerged. This includes early and any further advanced stage of growth of the primary root. Includes grains where the primary root has been knocked off.

Where the seed coat has split but the primary root has not emerged, the grain is to be classified under Broken, Chipped, Loose Seed Coat and Split.





Defective

Insect Damaged

Definition: Any visible insect damage to the grain is to be classified as defective. Includes insect eggs of all Stored Grain Insect species on the Seed Coat surface, whether those eggs may be live or dead and in any number.





Broken, Chipped, Loose Seed Coat and Split

Definition: Breakage, cracking, peeling or splitting of the seed coat or chipping and splitting of the kernel in various forms as follows -

Seed Coat:

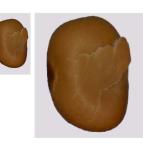
- Split Seed Coat A split in the seed coat running more than half the entire length or across more than half the entire width on one or both sides. Split may or may not be tightly adhering to the kernel.
- Skin Damaged A hole in the seed coat where more than 20% of the seed coat on any one side is missing.
- Loose Seed Coat (Peeling) Where the seed coat is visibly falling off the kernel to any extent and not adhering tightly to the kernel.
- Missing Seed Coat Where the entire seed coat is missing but the kernel remains intact.





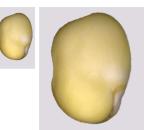


Skin Damaged



Loose Seed Coat

(Peeling)



Missing Seed coat

Split Seed Coat

Kernel:

- Chipped (Scratched) A part of the kernel is damaged or removed.
- Broken A split kernel with the seed coat still attached.
- Split A split kernel with no seed coat attached.













Poor Colour

Definition: Green is included in Poor Colour. Fungal Affected is included in Poor Colour. Frost Damaged, Stained is included in Poor Colour. Pea Seed Borne Mosaic Virus is included in Poor Colour.

Seed coats vary from grey, dark brown to black but may be depicted by other colours. Seed coats may be similar in appearance to various other defects such as Severely Damaged.

The photos below depict the minimum requirement of any colour to be classified as defective.



Defective

Green

Definition: Green is included in Poor Colour.

Seed Coat:

Seed coat appears intense green. It is recommended the kernel be inspected if immature grains are present.

Kernel:

Any level of green is classified as defective.



Fungal Affected (e.g. Ascochyta)

Definition: Fungal Affected is included in Poor Colour.

Lesions are generally visible to the naked eye and appear intense dark brown to black. The lesion may be similar in colour to Severely Damaged or Stained and Weather Damaged. A lesion may appear on one or both sides of the seed coat or kernel.

A lesion greater than 20% coverage on any one side of the seed coat is considered defective.

Any lesion of any size on the kernel is defective.



Stained and Weather Damaged

Definition: Stained and Weather Damaged is included in Poor Colour.

A general term used to describe visible damage to the seed coat that may or may not otherwise be defined or be distinguishable from other defects in these Standards. Weather Damage may also lead to a Loose Seed Coat or Shrivelled and Wrinkled.

Seed Coat:

Visible damage to the seed coat resulting in staining on the seed coat only. Seed coats may be discoloured or altered in size or shape.

Kernel:

Any damage to the kernel is classified as defective. $\,$



Defective (Seed Coat Affected)









Defective (Kernel Affected)
Photos do not depict minimum required

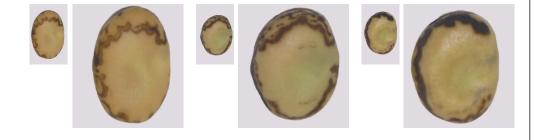
FABA BEANS: COMMON DEFECTS

Pea Seed Borne Mosaic Virus

Definition: Pea Seed Borne Mosaic Virus is included in Poor Colour. Staining on the seed coat caused by the Pea Seed Borne Mosaic Virus.







Defective

LENTILS, RED



Note: Green Lentils are considered a contaminant in Red Lentils.



Shrivelled and Wrinkled

Definition: Visible damage to the seed coat or size and shape of grain whereby the grains are severely distorted and/or shrunken. A distinct ridge (often described as mountains and valleys) on the seed coat must be present to be classified as Shrivelled & Wrinkled. Ridges may be described as coarse waves rather than soft waves. Seed coats may be wrinkled or dimpled and distinctly indented into the kernel. Seed coats may show a level of discolouration depending on the extent of damage. Grains are often smaller than the majority in the sample.



Broken, Chipped, Loose Seed Coat and Split

Definition: Breakage, cracking, peeling or splitting of the seed coat or chipping and splitting of the kernel in various forms as follows -

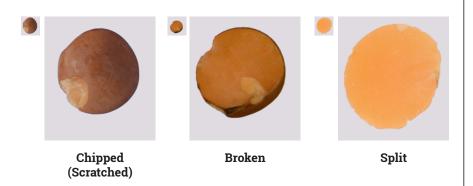
Seed Coat:

- Split Seed Coat A split in the seed coat running more than half the entire width or across more than half the entire width on one or both sides.
- Skin Damaged A hole in the seed coat where more than 20% of the seed coat on any one side is missing.
- Loose Seed Coat (Peeling) Where the seed coat is visibly falling off the kernel to any extent and not adhering tightly to the kernel.
- Missing Seed Coat Where the entire seed coat is missing but the kernel remains intact.



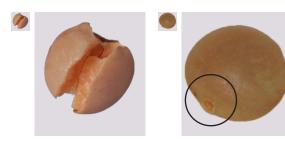
Kernel:

- Chipped (Scratched) A part of the kernel is damaged or removed.
- Broken A split kernel with the seed coat still attached.
- Split A split kernel with no seed coat attached



Insect Damaged

Definition: Any visible insect damage to the grain is to be classified as defective. Includes insect eggs of all Stored Grain Insect species on the Seed Coat surface, whether those eggs may be live or dead and in any number.



Sprouted

Definition: Seed coat has split and the primary root has emerged. This includes early and any further advanced stage of growth of the primary root. Includes grains where the primary root has been knocked off.



Severely Damaged

Definition: Damage to the grain causing it to become severely discoloured. A grain exhibits one or more of the following characteristics -

Burnt / Heat Damaged:

Heat Damaged or Burnt refers to those grains that have become severely discoloured. Affected grains appear dark brown, or in severe cases, blackened.

Mould:

Affected grains appear discoloured and visibly affected by mould.

<u>Diseased / Other Serious Visual Defects:</u>

Refers to those grains that have become significantly discoloured and/or have a serious visual defect that is not otherwise listed in these Standards.



Burnt / Heat Damaged





Mould

Mould

Poor Colour (Seed Coat)

Definition: Fungal Affected is included in Poor Colour. Stained and Weather Damaged is included in Poor Colour.

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 Severely Damaged. Does not include Contrasting Colour.

Where any poor colour is present on the seed coat, it is recommended the kernel also be inspected. Poor Colour kernel can only be assessed if the seed coat is removed.



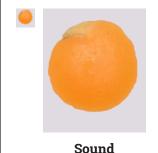
Orange Tip

Definition: Seed coats have varying degrees of orange colour, generally in the germ area. Included in defective not Poor Colour.



Poor Colour Kernel - Dehulled Lentil

Definition: 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.



Poor Colour Kernel





Poor Colour Kernel

Blonde Kernel

Definition: Kernels are not uniformly orange in colour. Kernels appear yellow. Seed coat must be removed to determine the presence on the kernel. Included in defective not Poor Colour.



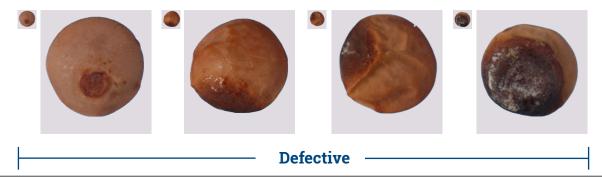
Fungal Affected

Definition: Fungal Affected is included in Poor Colour.

Lesions are generally visible to the naked eye and appear intense dark brown to black. The lesion may be similar in colour to Severely Damaged or Stained and Weather Damaged.

A lesion greater than 20% coverage on any one side of the seed coat is considered defective.

Any lesion of any size on the kernel is defective.



Pickling Compounds or Artificial Colour

Definition: An unnatural surface colour and/or colour, normally associated with a Pickling Compound that rubs off. Any grains that are artificially coloured, regardless of intensity, are defective.

Note: These photographs are to illustrate artificial colours and appearance only.

A **nil tolerance** applies to any pickling compounds/ contaminants, regardless of intensity or coverage or colour.



Stained and Weather Damaged

Definition: Stained and Weather Damaged is included in Poor Colour.

A general term used to describe visible damage to the seed coat or kernel that may or may not otherwise be defined or be distinguishable from other defects in these Standards. Seed coats and kernels may be discoloured or altered in size or shape. Weather damage may also lead to Loose Seed Coat or Shrivelled and Wrinkled

Does not include Contrasting Colour.



LENTILS, RED: CONTRASTING COLOURS

Variety Definition Chart - Supplied by Grains Australia



Definition: Grains with a colour not falling within the 'main and acceptable variety seed coat variation' are to be classified as Contrasting Colour. Contrasting colour and marbling is genetic variation, which can occur at trace levels within specific varieties and are not defective grains.

CONTRASTING COLOUR	MAIN AND ACCEPTABLE VARIETY SEED COAT VARIATION - SOUND					CONTRASTING COLOUR
PBA Blitz∅						
I DA DIKE				and the second		
				The state of the s		
Pale	Typical Grey	Grey-green	Slightly Marbled	Medium Marbled	Strongly Marbled	
PBA Herald XT ⁽⁾						
Pale	Typical Grey	Grey-green	Slightly Marbled	Medium Marbled	Strongly Marbled	Black (totally marbled)
PBA Hurricane XT®						
Pale	Typical Grey	Grey-green				
GIA Lightning ⁽⁾ and GIA Thunder ⁽⁾						
	Typical Grey	Grey-green	Slightly Marbled	Medium Marbled	Strongly Marbled	Black (totally marbled)

LUPINS, ANGUSTIFOLIUS





Lupin -Angustifolius Sound

Lupin -Albus Sound

Note: Albus Lupins are considered a contaminant in Angustifolius Lupins.



Broken, Chipped, Loose Seed Coat and Split

Definition: Breakage, cracking, peeling or splitting of the seed coat or chipping and splitting of the kernel in various forms as follows -

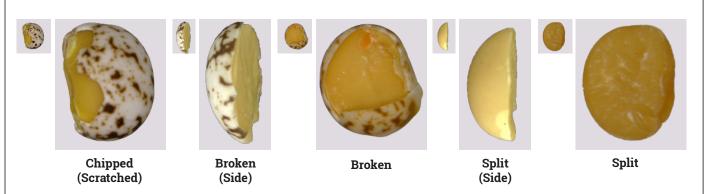
Seed Coat:

- Split Seed Coat (Fully Decoated WA) A split in the seed coat running more than half the entire length or across more than half the entire width on one or both sides.
- Skin Damaged A hole in the seed coat where more than 20% of the seed coat on any one side is missing.
- Loose Seed Coat (Peeling) Where the seed coat is visibly falling off the kernel to any extent and not adhering tightly to the kernel.
- Missing Seed Coat (Fully Decoated WA) Where the entire seed coat is missing but the kernel remains intact.



Kernel:

- Chipped (Scratched) A part of the kernel is damaged or removed.
- Broken A split kernel with the seed coat still attached.
- Split A split kernel with no seed coat attached



Manganese Deficiency

Definition: Splitting of the seed coat to expose the kernel. It is not considered a defect provided no damage to the exposed kernel has occurred.

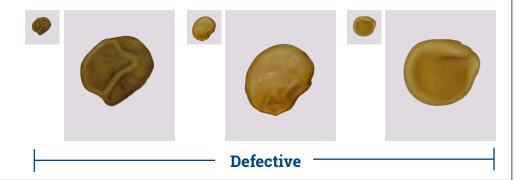




Sound

Shrivelled and Wrinkled

Definition: Visible damage to the seed coat or size and shape of grain whereby the grains are severely distorted and/or shrunken. A distinct ridge (often described as mountains and valleys) on the seed coat must be present to be classified as Shrivelled & Wrinkled. Ridges may be described as coarse waves rather than soft waves. Seed coats may be wrinkled or dimpled and distinctly indented into the kernel. Seed coats may show a level of discolouration depending on the extent of damage. Grains are often smaller than the majority in the sample.



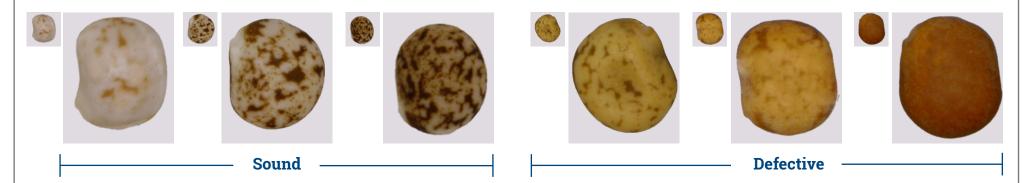
Insect Damaged

Definition: Any visible insect damage to the grain is to be classified as defective. Includes insect eggs of all Stored Grain Insect species on the Seed Coat surface, whether those eggs may be live or dead and in any number.



Poor Colour (Discoloured-WA)

Definition: Seed coats vary from yellow to tan, dark brown to black, but may be depicted by other colours. Seed coats may be similar in appearance to various other defects such as Severely Damaged.



Phomopsis

Definition: Grains appear sound with a fungal growth readily visible on the seed coat. If kernels are not sound, refer to Severely Damaged.







Bitter Dark (Bitter Variety-WA)

Definition: These varieties are identifiable mainly by their colour which is much darker than acceptable lupins.







Severely Damaged

Definition: Damage to the grain causing it to become severely discoloured. A grain exhibits one or more of the following characteristics -

Burnt / Heat Damaged:

Heat Damaged or Burnt refers to those grains that have become severely discoloured. Affected grains appear dark brown, or in severe cases, blackened.

Mould:

Affected grains appear discoloured and visibly affected by mould. Does not include Phomopsis.

Diseased / Other Serious Visual Defects:

Refers to those grains that have become significantly discoloured and/or have a serious visual defect that is not otherwise listed in these Standards







Burnt / Heat Damaged

Mould

Sprouted

Definition: Seed coat has split and the primary root has emerged. This includes early and any further advanced stage of growth of the primary root. Includes grains where the primary root has been knocked off.



Pickling Compounds or Artificial Colour

Definition: An unnatural surface colour and/or colour that rubs off. Any grains that are artificially coloured, regardless of intensity, are defective.

Note: This photograph is to illustrate artificial colour and appearance only. A nil tolerance applies to any pickling compounds, regardless of intensity or coverage or colour.





MAIZE, FEED



Sound



MAIZE, FEED: COMMON DEFECTS

Heat Damaged / Bin Burnt

Definition: Grains appear reddish brown, or in severe cases, blackened. Heat Damaged / Bin Burnt is included in the definition of Damaged.



Insect Damaged

Definition: Any visible insect damage to the grain is to be classified as defective. Insect Damaged is included in the definition of Damaged.



Broken

Definition: Grains that have 1/4 or more missing from the Kernel.



Sprouted

Definition: Included in Damaged.

Grains in which the covering of the germ is split and the shoot has broken through the seed coat. Grains that have had the germ knocked off or scalloped.





MAIZE, FEED: COMMON DEFECTS

Storage Mould

Definition: Grains appear discoloured and visibly affected by mould.

Note: If any musty odour is detected a nil tolerance applies.



Dead

Definition: Grains that are at least 50% opaque.





Fungal Affected

Definitions:

Silk Cut:

Easily identified where the pericarp is split and the starch appears to be popping out of the kernel. Silk Cut is included in Damaged.

Starburst:

Best identified as spider web like streaks radiating down the kernel from the point of silk attachment. These streaks are corroded channels within the pericarp caused by fungal growth. Air in the channels breaks the transparency of the pericarp so the yellow aleurone beneath cannot be seen. Star Burst is included in the definition of Dead, Mouldy, Storage Mould.





Silk Cut

Star Burst

MAIZE, FEED: COMMON DEFECTS/CONTAMINANTS

Pickling Compounds or Artificial Colour

Definition: An unnatural surface colour and/or colour, normally associated with a Pickling Compound that rubs off. Any grains that are artificially coloured, regardless of intensity, are defective.

Note: This photograph is to illustrate artificial colour and appearance only. A **nil tolerance** applies to any pickling compounds/contaminants, regardless of intensity or coverage or colour.

Field Fungi

Definition: Included in Damaged.

Seed coat is greater than approximately 50% discoloured. The visible discolouration of affected grains can vary from dark grey, brown to black in colour.





Kernel Red Streak

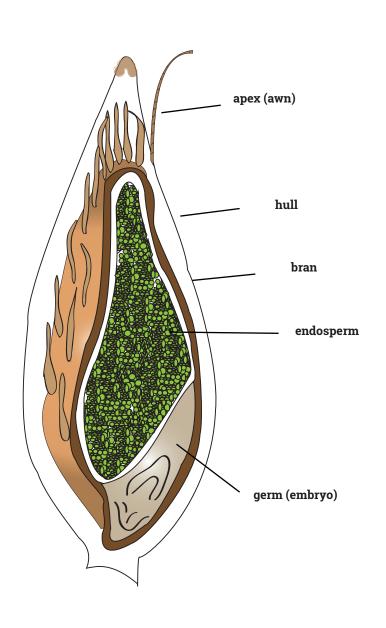
Definition: This is not a defect and kernels are considered sound when identified as Kernel Red Streak.



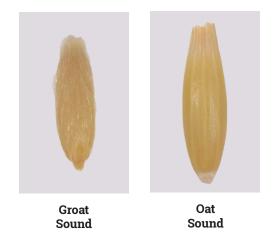


Sound

OATS



Awn End of Grain



Germ End of Grain



OATS: COMMON DEFECTS

Severely Damaged

Definition: Damage to the grain causing it to become severely discoloured. A grain exhibits one or more of the following characteristics -

Burnt / Heat Damaged:

Heat Damaged or Burnt refers to those kernels that have become discoloured. Affected grains appear dark brown, or in severe cases, blackened. May also appear discoloured under the husk on the groat.

Mould:

Affected grains appear discoloured and visibly affected by mould. Note that light Septoria discolouration similar to Mould is not included in the definition of Severely Damaged - refer to Stained Grains.

Diseased / Other Serious Visual Defects:

Refers to those kernels that have become significantly discoloured and / or have a serious visual defect that is not otherwise listed in these Standards. Does not include Field Fungi affected grains, refer to Field Fungi.







Sound -Variety differs

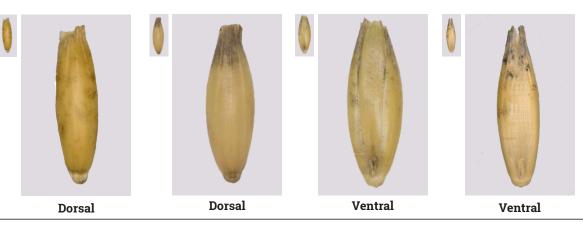
Heat damaged

Field Fungi (Spotted Mould Affected-WA)

Definition: Individual kernels where the seed coat has grey to black spotting occurring anywhere on the grain.

Coverage greater than approximately 10% of the grain surface is considered defective, otherwise classified as sound.

Grains that are soft (that are not classified as Sappy) and/or emit a mouldy odour are to be classified as Objectionable Material.



OATS: COMMON DEFECTS

Stained Grains (Heavily Discoloured-WA) inc. Septoria

Definition: Grains where greater than approximately 50% of the grain surface is discoloured. Various colours may be exhibited such as brown to black. Septoria is to be included in this definitition, except in WA.

Grains that are affected by Field Fungi or Mould are not included in the definition of Stained Grains.

Where staining has occurred, it is recommended the husk be removed and the Groat examined.





Septoria (WA)

Definition: A fungal infection that causes light to dark discolouration on the husk and/or groat.





Stained Groats (Except WA)

Definition: This defect is checked where Stained Grains are present in the sample. Where this staining has occurred, it is recommended the husk be removed and the Groat examined.

Any discolouration from the normal colour of the Groat is defective.







Sound - Ventral



Stained - Side



Stained - Dorsal



Stained - Dorsal



Stained - Ventral

OATS: COMMON DEFECTS

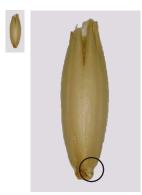
Insect Damaged

Definition: Any visible insect damage to the grain is to be classified as defective.



Sprouted

Definition: The grain has begun the germination process. A kernel that is sprouted is one where the shoot is visibly seen growing out from the germ.



Damaged Grains

Definition: Grain with a quarter or more of the grain missing. This includes any mechanical damage to the germ.



Dry Green or Sappy

Definition Dry Green: Grain surface is distinctly green. Grains are usually dry and hard.

Definition Sappy: Grains are generally soft when pressed. They may or may not be green. Any level of sappiness is classified as defective.



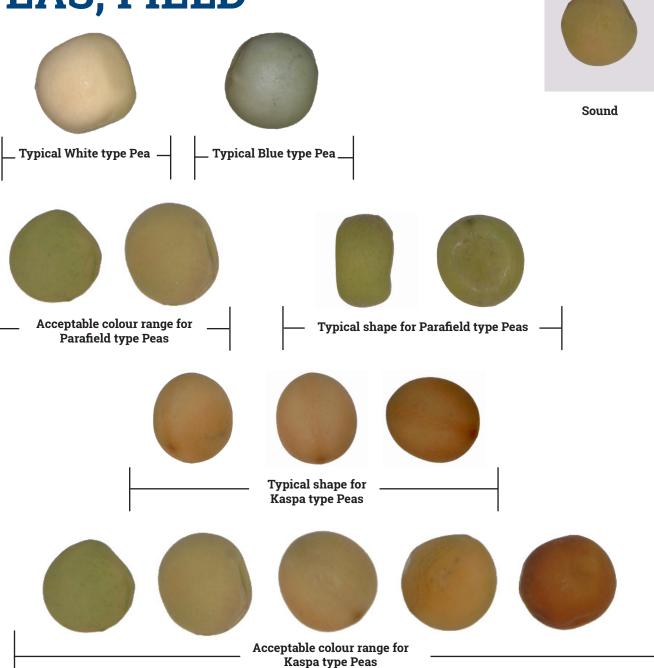
Dry Green

Shot

Definition: The covering of the germ is split, but without further development of the shoot.



PEAS, FIELD





Severely Damaged

Definition: Damage to the grain causing it to become severely discoloured. A grain exhibits one or more of the following characteristics -

Burnt / Heat Damaged:

Heat Damaged or Burnt refers to those grains that have become severely discoloured. Affected grains appear dark brown, or in severe cases, blackened.

Mould:

Affected grains appear discoloured and visibly affected by mould.

Diseased / Other Serious Visual Defects:

Refers to those grains that have become significantly discoloured and/or have a serious visual defect that is not otherwise listed in these Standards.



Broken, Chipped, Loose Seed Coat and Split

Definition: Breakage, cracking, peeling or splitting of the seed coat or chipping and splitting of the kernel in various forms as follows -

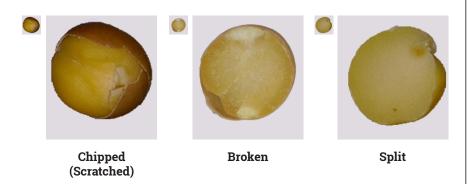
Seed Coat:

- Split Seed Coat A split in the seed coat running more than half the entire width or across more than half the entire width on one or both sides.
- Skin Damaged A hole in the seed coat where more than 20% of the seed coat on any one side is missing.
- Loose Seed Coat (Peeling) Where the seed coat is visibly falling off the kernel to any extent and not adhering tightly to the kernel.
- Missing Seed Coat Where the entire seed coat is missing but the kernel remains intact.



Kernel:

- Chipped (Scratched) A part of the kernel is damaged or removed.
- Broken A split kernel with the seed coat still attached.
- Split A split kernel with no seed coat attached.



Shrivelled and Wrinkled

Definition: Visible damage to the seed coat or size and shape of grain whereby the grains are severely distorted and/or shrunken. A distinct ridge (often described as mountains and valleys) on the seed coat must be present to be classified as Shrivelled & Wrinkled. Ridges may be described as coarse waves rather than soft waves. Seed coats may be wrinkled or dimpled and distinctly indented into the kernel. Seed coats may show a level of discolouration depending on the extent of damage. Grains are often smaller than the majority in the sample.



Sprouted

Definition: Seed coat has split and the primary root has emerged. This includes early and any further advanced stage of growth of the primary root. Includes grains where the primary root has been knocked off.

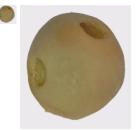
Sound

Insect Damaged

Definition: Any visible insect damage to the grain is to be classified as defective. Includes insect eggs of all Stored Grain Insect species on the Seed Coat surface, whether those eggs may be live or dead and in any number.







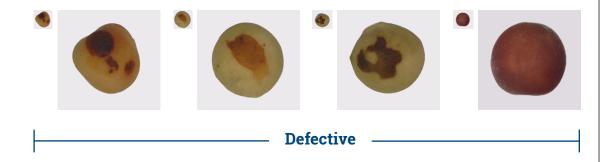
Poor Colour

Definition:

Seed Coat:

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 Severely Damaged.

Where poor colour is present on the seed coat, it is recommended the kernel also be inspected.



<u>Kernel:</u>

Any level of discolouration on the kernel is classified as defective. Where green kernels exist, the level of green colouring classified as defective is shown in the photos below.



SORGHUM



Sound



SORGHUM: COMMON DEFECTS

Severely Damaged

Definition: Heat Damaged / Burnt, diseased or other serious visual defects.

Kernels have become significantly discoloured. Grains appear dark brown or in severe cases, blackened.





Insect Damaged

Definition: Any visible insect damage to the grain is to be classified as defective.



Sprouted

Definition: The shoot is visibly extending from any part of the germ. Grains with pin holes are not included in this definition. Scalloped grains are included in this definition.



Sound



Sprouted

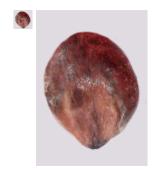


Scalloped

SORGHUM: COMMON DEFECTS

Mould

Definition: Grains appear discoloured and visibly affected by mould.

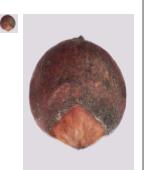


Field Fungi

Definition: 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.



Stained Sound



Field Fungi Defective

Issued: 1st August 2025

SORGHUM: COMMON DEFECTS/CONTAMINANTS

Honeydew

Definition: Honeydew is acceptable if the grain is able to flow freely.

Honeydew is a sticky exudate produced by the sorghum plant in response to any predator attack, including Ergot. Honeydew oozes out of the flowers and drips onto leaves of the sorghum plant. It causes seeds to stick together and can make crops difficult to harvest and prevent harvested grain from running through equipment.

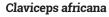


Sorghum Ergot

Definition: Any visible ergot to the grain is to be classified as defective.

Sorghum Ergot, *Claviceps africana*, may result in the accumulation of a grey/white fungal mass in empty seed glumes. *Cerebella spp.* is not a true ergot but is a fungus that often grows on the *Claviceps africana*, producing a large black mass. *Cerebella spp.* is included in Sorghum Ergot.

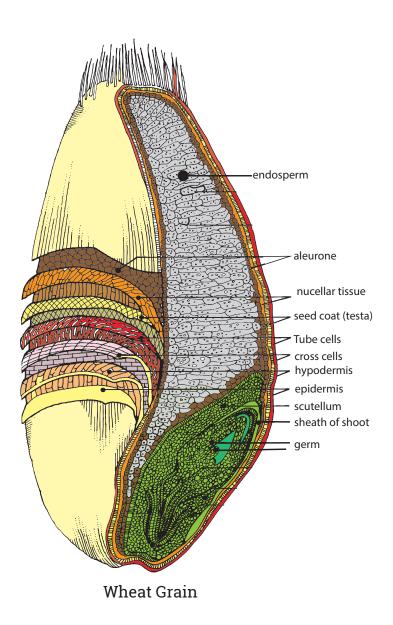




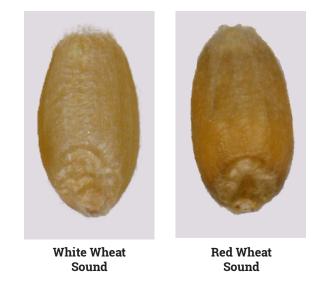


Cerebella spp.

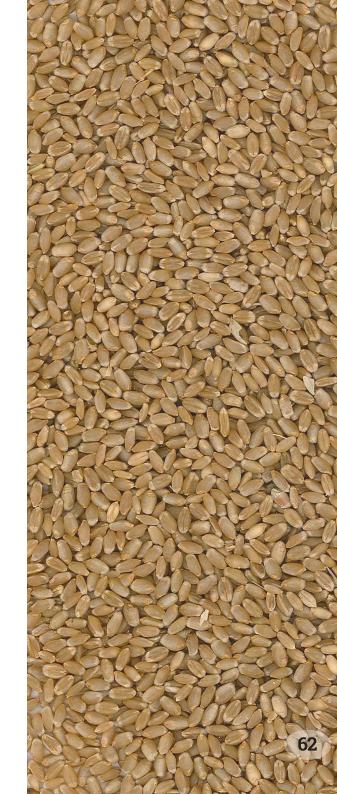
WHEAT



Brush End of Grain



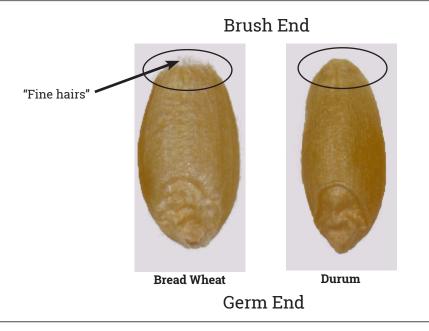
Germ End of Grain



WHEAT: DURUM

Durum Identification

Description: Bread Wheat can be visually distinguished from Durum by the "fine hairs" on the brush end of the grain on some varieties. While these brush end hairs are usually only associated with bread wheat varieties, some durum varieties may also have brush end hairs of varying length.



Vitreous Kernels

Description: Vitreous grains will appear uniformly bright and translucent. Non vitreous grains will be dull and opaque, or will contain dark, opaque sections that are clearly visible within the remaining translucent section of the grain.

Bleached grains may be difficult to ascertain if they are vitreous.

Any level of non-vitreous results in the grain being classified as non-vitreous.



Bleached Sound



Non-Vitreous



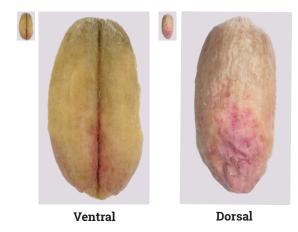
Non-Vitreous Side

Any level of non-vitreous results in non-vitreous classification.

Pink Stained

Definition: 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".



Insect Damaged

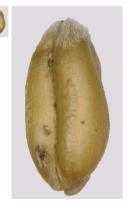
Definition: Any visible insect damage to the grain is classified as defective.



Stained

Definition: 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.

Includes grains that show streaking anywhere on the surface of the grain, and brush-end staining beyond the minimum. Also includes adherence of contaminants such as soil, dust, plant parts and other material.



Plant Material Streaking









Discolouration must be 50% or

more of the germ

Brush Ventral

Brush Dorsal

Black Tip

Distorted

Definition: 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.











Blue Hue – Above 2mm screen only —

Sprouted

Definition: 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.



Sound - Pin Hole



Scalloped Not defective

Dry Green or Sappy

Definition Dry Green: Grain surface is distinctly green. Grains are usually dry and hard.

Definition Sappy: Grains are generally soft when pressed. They may or may not be green. Any level of sappiness is classified as defective.



Dry Green

Field Fungi

Definition: 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.



Severely Damaged

Definition: Damage to the grain causing it to become severely discoloured. A grain exhibits one or more of the following characteristics -

Burnt / Heat Damaged:

Heat Damaged or Burnt refers to those grains that have become severely discoloured. Affected grains appear reddish brown, dark brown or in severe cases, blackened.

Mould:

Affected grains appear discoloured and visibly affected by mould.

<u>Diseased / Other Serious Visual Defects:</u>

Refers to those grains that have become significantly discoloured and/or have a serious visual defect that is not otherwise listed in these Standards.





(Blackened)





Mould

Other Serious Visual Defect

White Grain Disorder

Definition: Includes Fusarium Head Blight. Grains appear white to light grey but may also contain a pink discolouration. Grains are only to be classified as White Grain Disorder if the discolouration is over more than approximately 50% of the seed coat surface. If the discolouration is approximately 50% or less of the seed coat surface, grains may be classified as Sound.

Grains may also appear flaky with a white discolouration and may display some level of shrivelling.



WHEAT: COMMON DEFECTS/CONTAMINANTS

Cereal Smuts

Definition: Includes all smuts, except Loose Smut:

Ball Smut:

Grains infected by the spores of the fungus *Tilletia caries*. Appearance of pale, plump, slightly oversized grains. Easily crushed and contain a mass of black powder (spores) with a distinctive rotten egg smell. This may also be called Stinking Smut or Bunt.

Covered Smut:

Covered smut is caused by various fungi of the Ustilago spp.





Ball Smut

Ball Smut

Pickling Compounds or Artificial Colour (Pickled Wheat-WA)

Definition: An unnatural surface colour and/or colour, normally associated with a Pickling Compound that rubs off. Any grains that are artificially coloured, regardless of intensity, are defective.

Note: These photographs are to illustrate artificial colours and appearance only. A **nil tolerance** applies to any pickling compounds/contaminants, regardless of intensity or coverage.

















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