

**MANAGEMENT OF GRAIN**  
**WITHIN THE**  
**AUSTRALIAN GRAIN SUPPLY CHAIN:**

*Australian Grain Industry - Code of Practice*

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**Compiled on behalf of the Australian Grain Industry by:**

**Grain Trade Australia**



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# 1. About this Code of Practice

## 1.1 Purpose of the Code

This Code of Practice (Code) is a practical guide for all participants in the grain industry to achieve the standards and expectations of domestic and export customer requirements. Customer requirements include those stipulated in contracts and regulatory requirements at the Australian State, Territory and Federal levels and international and overseas country level.

Associated with this Code are also:

- i. a range of industry standards,
- ii. ancillary Codes of Practice, such as for Grain Transport and Port Access, and
- iii. Technical Guideline Documents that support and provide greater detail of components of the Code.

Whilst each industry participant manages their own operations based on the needs of its customers, their own commercial operations, internal procedures and systems, this Code focuses on common standards, operating procedures and documented processes.

In adopting this Code all participants accept they shall be individually responsible for implementing the necessary systems, procedures, and processes to achieve the purpose of the Code.

Adoption of this Code will provide all industry sectors including governments, researchers and consumers with confidence that processes exist in Australia to successfully:

- i. manage the farm-based production practices of grain;
- ii. ensure effective assessment, storage and transport of grain;
- iii. promote the Australian industry and its grain in support of market access, and to
- iv. supply grain that meets the expectations of the market.

Self-regulation is a key focus of the grain industry. An objective of this Code is to support that purpose by providing guidance to industry that outlines minimum requirements of all involved in the Australian grain industry.

GTA will continue to review this Code with input from industry, to ensure its integrity is maintained.

## 1.2 Scope of this Code

This Code provides practical guidance for persons conducting business in the Australian grain industry. It has been developed to be applicable to all grain and grain products and applies to all processes and activities from market driven varietal classification, grain production through to the end consumer.

The Code has been designed to promote the use of best management practice by industry participants. This means:

- Mandatory compliance with all regulations as required by law; and
- Recommended compliance with accepted industry practices as documented in this Code including:
  - On farm management practices;
  - Quality Assurance systems;
  - storage and transport practices;
  - sampling and testing regimes;
  - grain quality management;
  - marketing and contractual arrangements, and
  - a complaint handling procedure.

## 1.3 Industry Endorsement

All organisations involved in the Australian grain industry from plant breeding to the end consumer are encouraged to adopt this Code.

It is a requirement as approved by the GTA Board, that membership of GTA is based on mandatory adherence to this Code.

Those industry participants who adopt this Code agree to:

- Comply with all laws and regulations relating to the growing, merchandising, inspection, grading, weighing, storing, handling and transport of grain, including relevant Workplace Health and Safety regulations;
- Conduct activities considering the impact on the environment;
- Comply with legal requirements for the application and use of chemicals at all stages along the supply chain;
- Comply with Australian and importing countries' maximum residue limits (MRLs) and other regulated import requirements;
- Implement financial management standards where applicable;
- Comply with industry standards, processes and procedures;
- Comply with industry and individual company procedures where contractors are used;
- Maintain and promote the use of industry-accepted management practices, standards and procedures in the transaction of business;
- Promote the Australian industry and its grain in support of market access;
- Promote the adoption of safe practices at all stages along the supply chain; and
- Improve the standards of practice and service in the Australian grain industry.

## 1.4 Supporting Codes and Technical Guideline Documents

The Code is supported and enhanced by ancillary Codes of Practice (Transport & Port Access) and Technical Guideline Documents (both existing and under development). The purpose of these supporting Codes and Technical Guideline Documents (see Appendix 2) is to:

- provide more detailed information to industry on specific activities, and
- assist implementation of each listed activity as outlined in this Code

Industry is encouraged to provide input into the development of Technical Guideline Documents.

## 2. Code of Practice Requirements

This Code is structured on a number of activities that industry undertakes along the supply chain commencing with On-Farm Activities. There is no intention to prioritise each activity, as all are considered essential to managing grain within the Australian grain industry.

There are many generic requirements and processes that are applicable to more than one of these activities or areas of industry operation. For example:

- Mandatory compliance with applicable regulations;
- Staff training;
- Impact on the environment;
- Documentation of procedures;
- Collection of data and maintenance of records; and
- Traceability through the supply chain.

### 2.1 On-Farm Activities

All farm related activities are carried out in compliance with the Stewardship Guide Growing Australian Grain - Safely managing risks with crop inputs and grain on farm.<sup>1</sup>

That guide details information for grain growers and their advisers about managing risks with inputs, grain handling and safety on-farm.

#### 2.1.1 General Processes

This activity refers to all processes occurring on the farm including:

- Pre-sowing;
- Crop growth and agronomy practices;
- Harvesting;
- Storage; and
- Transport.

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<sup>1</sup> <http://grainsguide.grainproducers.com.au/>

At all stages the crop and / or harvested grain is managed to consider the impact of those practices on yield, grain quality, agronomic aspects of the crop and environmental impacts, and to limit and/or eliminate the presence of toxins, microbial and other contamination, non-approved chemical residues, stored grain insects and contaminants as appropriate.

Activities conducted in all areas of operations for this purpose include:

- In crop monitoring for pests and diseases;
- Maintaining the hygiene of storages, vehicles, equipment and surrounds;
- Minimising contamination of the commodity produced;
- Complying with regulatory requirements and controls at all times; and
- Contractors used to carry out an activity providing a declaration attesting to compliance with industry guidelines.

Documentation and records of relevant management practices are kept. Records are kept as per requirements of any relevant Federal, State or Territory legislation or as required by industry.

For the purposes of traceability of grain Variety this includes identifying:

- The source of seed;
- Seed retention;
- Paddock utilisation; and
- Storage utilisation

Plant Health Australia and Grain Producers Australia has published a Biosecurity Manual for Grain producers<sup>2</sup> to assist in the management on-farm of weeds, pests, diseases and chemical residues.

### **2.1.2 Crop Growth**

Where applicable, seed purchased for sowing complies with the Australian Seeds Federation National Code of Practice for Seed Labelling and Marketing.<sup>3</sup>

Seed should be:

- Labelled and traceable;
- Accompanied by an assurance that the variety has been tested; and
- Treated prior to sowing to minimise potential disease infestation during crop growth.

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<sup>2</sup>Plant Health Australia and Grain Producers Australia - Biosecurity Manual for Grain producers - <http://www.planthealthaustralia.com.au/wp-content/uploads/2017/01/Biosecurity-Manual-for-Grain-Producers.pdf>

<sup>3</sup> Australian Seeds Federation National Code of Practice for Seed Labelling and Marketing – <http://www.asf.asn.au/content.php?id=39>

During crop growth a range of agronomic practices are conducted:

- To maximise the quality of grain produced;
- To maintain the integrity of the crop;
- To minimise contamination of the harvested grain;
- To control pests and diseases as required; and
- Records are maintained of all treatments applied.

Principles of managing pests are followed, as outlined in the Farm Biosecurity Manual for the Grains Industry<sup>4</sup>. This includes at a minimum:

- Crop monitoring and pest surveillance;
- Maintaining good farm hygiene;
- Keeping records; and
- Reporting suspect pests.

### **2.1.3 Grain Harvesting and Storage**

Grain is harvested, handled and stored to preserve its integrity according to industry standards. Where relevant, on-farm storage facilities are managed as per requirements outlined in Section 2.3 “Storage Facilities”.

During the harvest operation:

- Grain is harvested to maximise its quality based on the end-use;
- Grain integrity is maintained; and
- Operations are carried out, and equipment is used that will minimise the risks of contamination of the harvested grain.

During the storage period:

- Documentation and records of all storages used on-farm are kept by the producer;
- All storages are maintained in a suitable condition;
- Grain is monitored to preserve its quality;
- Documentation is kept of grain storage and movement activities to provide traceability of the grain when moved on to the next segment of the supply chain;
- Stored grain is managed to comply with the need to be free of live stored grain insects on outturn; and
- All chemical treatments to storages, handling equipment and grain are applied as per regulatory and industry requirements.

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<sup>4</sup> Farm Biosecurity Manual for the Grains Industry “Reducing the risk of exotic and damaging pests becoming established on your farm” – <http://www.farmbiosecurity.com.au/toolkit/farm-biosecurity-plansmanuals/>

### **2.1.4 Movement ex-farm**

Prior to loading, all transport and handling equipment is inspected to determine its suitability for use in the loading and transporting of grain. Where external transport agents are utilised a Grain Commodity Truck Cleanliness and Prior Load Declaration should be completed.

All aspects of the Grain Transport Code of Practice, as outlined under section 2.6, are followed where relevant.

For the purposes of traceability, producers provide appropriate documentation to transport agents when used to move grain from the farm through the supply chain. Grain is accompanied by a Grain Commodity Vendor Declaration that provides details on the status of the grain as required by the market.

As outlined in section 2.4.5 at a minimum the Grain Commodity Vendor Declaration (CVD) is required.

- For the tonnage of grain covered under each individual contract; and
- For each truckload tendered for delivery where no contract exists (e.g., at harvest)

The declaration must include:

- Variety;
- Chemical treatment and residue status; and
- GMO status

## **2.2 Grain Sampling and Testing**

### **2.2.1 General Requirements**

Procedures are documented for all major processes associated with sampling and testing grain. These documented procedures for equipment maintenance and use and sampling and testing procedures are outlined in the company Sampling Manual or the Operating Procedures.

Where available, industry reference material is to be used to assist the classification process. This includes material such as:

- GTA Technical Guidelines Documents
- Visual Recognition Standards Guide;
- Seed Impurities of Grain Identification Guide;
- Insects of Stored Grain, A Pocket Reference; and
- Equipment operating manuals and instructions.

### **2.2.2 Equipment to be Used**

There is a range of equipment available for sampling and assessing the quality of grain against specifications listed in Standards. The type of equipment used, and the level of sophistication and accuracy will vary by organisation, location used, purpose of use and commodity being assessed.

Only equipment suited to its intended purpose is to be used. The preference is for the use of:

- Pneumatic or vacuum sampling equipment rather than manual probes when obtaining a sample from a road truck;
- A grain divider to obtain a sub-sample for assessment; and
- Objective technology rather than subjective assessment

Where “field methods and equipment” are used, these are to be based on the reference methods to provide comparable results.

### **2.2.3 Equipment Monitoring and Calibration**

All equipment is to be routinely monitored, calibrated and checked as relevant, to ensure correct operation as outlined in the company Sampling Manual or the Operating Procedures. The frequency of calibration and these checks will vary based on the type of equipment, frequency of use and operating procedures of the company. At a minimum, equipment should be checked annually. During periods of continual use, equipment should be more frequently checked.

Checking of all equipment including any calibration will be done by a person appropriately qualified to carry out such a task. Personnel may be external to the company or internal staff skilled in that task. Records will be kept of all such maintenance and checks.

If equipment is found to not be properly calibrated, the Sampling Manual or Operating Procedures is to be checked for actions to be taken – with corrective action to be taken as soon as practically possible.

Refer to the appropriate TGD for specific details by equipment type [Explore TGDs](#)

### **2.2.4 Trade Certification of Equipment**

Equipment used may be deemed “for trade”, thus it must meet certain regulatory conditions<sup>5</sup>.

Industry is committed to the use of all equipment of a standard for “use in trade” where the outcome of the grain classification process is a payment to the supplier of the grain. All other testing equipment that does not fall under this legislation is also to be checked under similar processes, as it is the desire of industry to ensure all equipment used for grain testing is suited to that purpose.

GTA committees communicate as required with the relevant State Departments of Fair Trading and the National Measurement Institute to show industry alignment of its standards and processes with State and Federal legislation and/or codes.

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<sup>5</sup> National Measurement Institute - <http://www.measurement.gov.au/Pages/default.aspx>

## 2.3 Storage Facilities

### 2.3.1 Storage Construction & Maintenance

Grain storage facilities:

- Are to be soundly constructed;
- Must be maintained to minimise the entry of pests, vermin and moisture that may affect stored grain;
- Must prevent seepage of grain from the storage; and
- Are to be located in an area, and the surrounds are to be of suitable construction material, to minimise contamination of grain and to prevent damage to stored grain through water ingress.

Where an individual storage is categorised as sealed, and is used on that basis, it is to comply with the Australian Standard AS2628<sup>6</sup>. This includes the requirement to comply with the pressure test as outlined in that Standard.

Storages should be suitable for the commodity to be stored. - [Explore GRDC Storedgrain](#) Preference is for the use of sealed and well maintained permanent storages for high value commodities. Aeration is a useful management tool to assist maintaining the quality of grain in storage.

The structural integrity of storages is monitored regularly during the storage period to maintain the integrity of the stored grain and to assist in maintaining its quality. Any storage condition that may impact on the quality of grain to be stored should be addressed as soon as possible.

### 2.3.2 Stored Grain Pest & Hygiene Management

#### (i) General

A pest management strategy for all pests should be documented and regularly updated. Where required, additional pest management strategies should be implemented based on seasonal conditions (e.g., mouse plagues) or as required under regulations (e.g., operation of an Export Registered Establishment).

Storages, their surrounds and all associated handling equipment should be regularly checked to prevent the entry of and to be practically free of pests, vermin and weeds.

Grain spillages and dust should be cleaned and removed from the site as soon as practical following grain movement. Facilities should be regularly cleaned down following out-loading or movement of grain to remove carryover contaminants, assist insect control and assist maintaining hygiene.

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<sup>6</sup> Australian Standard AS2628 Sealed grain-storage silos — Sealing requirements for insect control - <http://infostore.saiglobal.com/store/default.aspx>

## (ii) Stored Grain Insects

For management of stored grain insects, industry follows the principles of Integrated Pest Management including, where relevant, using tools such as:

- Hygiene;
- Inspection; and
- Aeration.

The intention is that grain is to be maintained free of stored grain insects.

Grain should be sampled regularly to determine the presence of stored grain insects:

- Any infestation should be treated as soon as possible following detection;
- Any chemical use should comply with all label directions;
- The use of chemicals should be done to follow industry guidelines and to meet regulatory requirements and customer specifications;
- All chemical treatments to grain should be done to ensure compliance with applicable maximum residue levels (MRLs); and
- Only legal chemical treatments for grain, storages, structures and surrounds are to be used.

### **2.3.3 Storage Operations**

Any provider of a storage facility, including storage facilities located at processing and / or container packing facilities will operate that facility to ensure any commodity moving through that facility is not compromised in any way. This includes:

- Minimising the risks for contamination of grain with other commodities stored and moved within that facility; and
- Minimising the risks of contamination of grain with structural treatments used for insect control.

All commercial Storage and Handling operators should provide a Storage and Handling Agreement outlining all terms and conditions.

Procedures will be documented for the major activities occurring at that facility.

All staff will be adequately trained and a documented Workplace Health and Safety, and Chain of Responsibility procedures will exist as required by relevant legislation.

Services offered at the storage facility will be documented and, where relevant, documentation will be publicly available that lists a range of commercial services including but not limited to:

- Storage and Handling Agreement outlining:
  - The nature of the service provided;
  - The responsibility of the storage provider in supplying the service to its customers;
  - Procedures for allocating lost or damaged grain against client inventory when grain is in a commingled ownership state;

- Communication to the owner of the grain if an event has damaged the grain or prevents the owner from out-turning or accessing the grain;
  - The liability of the storage provider should grain be lost or damaged;
  - The obligations of the storage provider covering insurance; and
  - The price for conducting those services.
- Notices of the requirement for industry to be compliant with relevant procedures and actions to be taken by the storage provider in circumstances where non-compliance is detected, such as:
    - Detection of pickled grain and other nil tolerance parameters that may cause a food safety issue;
    - Detection of chemical residues in excess of legal requirements; and
    - An incorrectly completed Commodity Vendor Declaration.

As outlined in the Storage and Handling Agreement, trace-back to the grain supply source will occur for investigation of any non-compliance. GTA's TGD number 17, Container Packer Operations Manual provides new and existing storage operators a reference document to assist in the handling of grain through a storage facility.

## 2.4 Chemical Use

### 2.4.1 Regulations

Industry is committed to complying with relevant Australian and International chemical regulations. The grain industry provides a product that is considered safe for human and animal consumption.

A whole-of-chain approach applies to food safety and chemical residue management and the provision of grain according to customer requirements through a combination of:

- Australian State, Territory and Federal Government legislation; and
- Industry quality assurance systems and general practices underlying the legislation.

At all times, the grain industry complies with all regulatory controls for chemicals. The key elements to the regulatory system in Australia and overseas are:

#### Australia

- Chemicals are registered for both in-crop and post-harvest use on grain. In Australia there are two Government bodies (Australian Pesticides and Veterinary Medicines Authority (APVMA) and Food Standards Australia New Zealand (FSANZ)) responsible for registration of chemicals and for determining MRLs of chemicals <sup>7, 8</sup>;

<sup>7</sup> The Australian MRL database - [www.apvma.gov.au/residues/mrl.shtml](http://www.apvma.gov.au/residues/mrl.shtml) The Food Standards Australia New Zealand (FSANZ) database - [www.foodstandards.gov.au](http://www.foodstandards.gov.au)

<sup>8</sup> Maximum Residue Limits of agricultural and veterinary chemicals and associated substances in food commodities – <https://www.legislation.gov.au/Series/F2012L02501>

- Australia is a full signatory to the Codex Alimentarius Commission<sup>9</sup>, an international body created by the World Health Organisation and the Food and Agriculture Organization to develop, amongst other things, international MRLs. The Australian MRLs and the registration and use of chemicals, are binding in all Australian States and Territories;
- The Australian Government Department of Agriculture and Water Resources (DAWR) control exports under the Export Control Act 1982<sup>10</sup>. Plant Export Operations<sup>11</sup> is part of DAWR and is responsible for this task. Plant Export Operations interfaces with the grain industry through various means such as the Grain and Plant Products Export Industry Consultative Committee<sup>12</sup> (GPPEICC); and
- The Australian National Residue Survey (NRS)<sup>13</sup> gathers information on chemical residues and environmental contaminants in the products of participating industries such as grain. Samples are taken from a range of domestic grain products, container exports and all bulk exports of prescribed grains and assessed for levels of a range of chemical compounds. Where MRL violations are detected, the NRS initiates a trace-back system to determine the cause. That trace-back system is done by the relevant regulatory authority in each State and Territory as required by legislation. As required by legislation, NRS reports on those violations. Under this Code, the following industry sectors are required to actively participate on a continuous basis in the NRS grains residue monitoring program, and to comply with any NRS directions applying to that program:
  - All grain organisations out-turning on the domestic market to an end-processor (who is not defined as a primary producer) ;
  - All bulk grain exporters;
  - All container exporters; and
  - Where relevant, operators of facilities who provide grain as part of the above services.

#### Export:

- Each importing country operates its own legislation in relation to chemicals residues permitted on imported grain. Industry uses the information available to:
  - Understand those requirements prior to supply of grain;
  - Implement measures to meet those requirements; and
  - Implement corrective action practices when residues on grain are identified that do not meet importing country MRLs.

As required by legislation industry will not trade (i.e., supply) in grain on the domestic or export market that contains a chemical in violation of relevant legislation

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<sup>9</sup> Codex Alimentarius Commission - <http://www.codexalimentarius.org/>

<sup>10</sup> Export Control (Plants and Plant Products) Orders 2005 - <http://www.comlaw.gov.au/Series/C2004A02606>

<sup>11</sup> Exporting grain from Australia - <http://www.agriculture.gov.au/export/controlled-goods/plants-plant-products>

<sup>12</sup> Grain and Plant Products Export Industry Consultative Committee - <http://www.agriculture.gov.au/biosecurity/partnerships/consultative-committees/gppeicc>

<sup>13</sup> National Residue Survey - <http://www.agriculture.gov.au/ag-farm-food/food/nrs/plant-product-testing>

Where required by legislation:

- If any intentional mis-use of a chemical is identified, it is to be reported to the relevant authority; and
- Where an MRL is found to be in violation of market regulations, it is to be reported to authorities and the cause investigated as relevant.

#### **2.4.2 Regulations Industry Practices**

Industry implements a range of quality assurance systems and practices relating to the safety and compliance of Australian grain with market and regulatory requirements, including insect control and chemical residues of in-crop and post-harvest chemicals. These measures:

- Promote the safety of Australian grain in general to show compliance with changing customer requirements and regulations while showing a minimal requirement for the use of chemicals;
- Incorporate measures outlined in the On-Farm Stewardship Guide;
- Incorporate the principles of Integrated Pest Management;
- Incorporate rotating the use of chemicals and judiciously using chemicals to manage resistance, to assist in ensuring chemicals are available in the long term;
- Include compliance with Food Standards Australia New Zealand (FSANZ) “Draft voluntary Code of Practice to reduce national security-related risks in the chemicals supply chain”<sup>14</sup>;
- Include a range of sampling and testing to determine the chemical residue status of grain;
- As a back-up to industry sampling and testing programs, include participation in the NRS program as outlined above, including any industry agreed practices in relation to that program;
- Apply across the Australian grain supply chain from on-farm production to export in bulk vessels, containers or bags and trade to the domestic market;
- Ensure that industry does not knowingly trade in grain that contains residues in excess of market requirements; and
- Are updated based on a range of factors such as changes in regulations, variable agronomic practices and environmental conditions or the pest status of stored grain.

#### **2.4.3 Chemical Application**

At all times, chemicals are applied:

- To comply with label directions for those chemicals;
- To comply with MRLs for those chemicals; and
- By appropriately qualified personnel.

Prior to and during crop growth, chemicals are applied:

- Based on agronomic and environmental conditions.

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<sup>14</sup> Draft National Code of Practice for Chemicals of Security Concern  
<http://www.chemicalsecurity.gov.au/Pages/default.aspx>

During and following harvest, chemicals such as structural treatments and stored grain treatments are applied:

- At rates based on a range of factors including end-use of that grain;
- To maintain and prolong the life of those chemicals;
- To comply with MRLs for each applicable market;
- To minimise the cross-contamination of grain subsequently handled through any infrastructure;
- To comply with the Strategy to Manage Resistance to Grain Protection Chemicals in the Australian Grain Industry to prolong the life of phosphine and other stored grain protectants<sup>15</sup>; and
- Abiding on outcomes, recommendations and activities of the National Working Party on Grain Protection as determined and published following each year's annual conference<sup>16</sup>.

Industry adopts a nil tolerance for live stored grain insects on outturn of grain to the domestic or export market. Storages are actively monitored for the presence of live stored grain insects and industry strives for grain in storage to be free of live stored grain insects.

Fumigations are monitored to ensure recommended concentrations are achieved.

#### **2.4.4 Commodity Vendor Declaration**

Preference is for a single Commodity Vendor Declaration (CVD)<sup>17</sup> to be used across industry where possible. It is recognised CVDs may be developed by individual industry participants.

CVD forms:

- Are routinely used in the grain supply chain on receipt of grain from a producer or during the transfer of ownership within the trade;
- Must include details such as chemical residue status, variety and GM status of the grain;
- May include details of the quality status of the grain;
- Contain information that is used by the buyer or handler of the grain to confirm the status of the grain and to verify the grain meets regulations and/or market requirements;
- Are only to be provided where information documented can be supported by records or other suitable means;
- May only be completed by approved persons; and
- Are actively transferred by industry along the supply chain following a change in ownership and movement of grain.

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<sup>15</sup> Strategy to Manage Resistance to Grain Protection Chemicals in the Australian Grain Industry - [http://www.graintrade.org.au/chemical\\_tolerances](http://www.graintrade.org.au/chemical_tolerances)

<sup>16</sup> National Working Party on Grain Protection - <http://www.graintrade.org.au/nwpgp>

<sup>17</sup> Commodity Vendor Declaration forms - <http://www.graintrade.org.au/contracts>

## 2.4.5 Quality Checks

Quality control checks:

- Are carried out from the time grain is harvested and received into storage up to the time:
  - It is placed on a shipping belt for loading onto a bulk vessel for export;
  - It is loaded into a container for export;
  - It is delivered to a domestic end-user; and
- Involve assessment of a range of representative samples taken along the supply chain to ensure customer and regulatory requirements will be met on outturn of that grain.

Samples and certification documentation may accompany each grain parcel as it moves through the supply chain. These may be provided by each participant in the supply chain or by independent third parties.

## 2.4.6 Market Requirements

All involved in the grain supply chain, including producers, storage providers and marketers are to be aware of the relevant domestic and international MRLs applying to grain. These are outlined in the Australian Grains Industry Post Harvest Chemical Usage Recommendations and Outturn Tolerances publication<sup>18</sup> and on the NRS and GTA website<sup>19, 12</sup>.

Grain is only out-turned:

- Following compliance with the legislated label requirements such as Withholding and Ventilation Period;
- When in compliance with customer and/or regulatory MRLs that apply to that grain; and/or
- Where applicable following analysis of grain to confirm chemical residue, levels are in compliance with customer and/or regulatory MRLs.

Where grain is known to contain a chemical that is in violation of a regulatory or customer market requirement, industry will not supply that grain to that market unless the following measures are undertaken to ensure the grain upon reaching the destination market will comply with the relevant MRL:

- A mitigation strategy is implemented; and/or
- The supplier receives written agreement from the customer of the grain, provided regulatory requirements are not violated.

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<sup>18</sup> Australian Grains Industry Post Harvest Chemical Usage Recommendations and Outturn Tolerances - [http://www.graintrade.org.au/chemical\\_tolerance](http://www.graintrade.org.au/chemical_tolerance)

<sup>19</sup> National Residue Survey - <http://www.agriculture.gov.au/ag-farm-food/food/nrs/plant-product-testing>

## 2.5 Grain Quality Management

Industry complies with various competency standards that exist for the receipt and management of grain<sup>20</sup>.

All involved in the supply chain are responsible for providing traceability of grain through the supply chain. This is based on the principle that any entity in the supply chain has capability to trace grain one step forward and one step backward. Documentation is used to undertake investigations of non-conformance.

All legal requirements for operation of facilities (e.g., Export Registered Establishment for bulk and container premises under the DAWR Export Control Act) are complied with.<sup>21</sup>

### 2.5.1 Grain Receipt & Segregation

#### (i) Receipt

Industry preference is for the use of common industry standards to classify and grade grain. On receipt of grain, all commercial storage providers:

- Applies industry sampling and testing protocols, with any field test methods being equivalent to reference methods where applicable;
- Documents operational procedures associated with sampling, testing and classification of grain and, where applicable, makes these publicly available;
- Takes representative samples for assessment of grain against Standards;
- Classifies grain according to industry or end-buyer standards<sup>22</sup>;
- Conducts assessment and classification at the point of receipt, recognising the practical difficulties of this process in certain situations;
- Assesses individual loads of all grain tendered for delivery according to those standards;
- Where feasible, uses reference methods for assessment;
- Documents and makes known to industry where variations to industry standards occur;
- Uses reference material where available (e.g., GTA Visual Recognition Standards Guides<sup>23</sup>);
- Makes available at each receipt site a documented dispute and rejection procedure for each load tendered for delivery. Preference is for the use of a common industry procedure; [Explore TGD](#)
- Obtains a declaration from the deliverer of the grain on a range of parameters, including where applicable commercial contract/price issues, variety, GM composition, chemical use and QA status of the grain;
- Takes various samples for further analysis of grain quality or verification of the declaration at receipt based on the risk assessment procedure of the storage provider. At a minimum grade running samples are collected; and
- Maintains relevant records of each delivery.

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<sup>20</sup> Various Competency Standards for Receipt, Testing and Storage of grain - <http://www.graintrade.org.au/CompetencyStandards>

<sup>21</sup> DAWR Exporting Plants and Plant Products - <http://www.agriculture.gov.au/export/controlled-goods/plants-plant-products>

<sup>22</sup> Various Commodity Standards for the applicable season - [http://www.graintrade.org.au/commodity\\_standards](http://www.graintrade.org.au/commodity_standards)

<sup>23</sup> GTA Visual Recognition Standards Guides - <http://www.graintrade.org.au/fact-sheets-publications>

## (ii) Segregation

Segregations are created according to market requirements and based on the industry standard for that commodity and grade.

Documentation of each delivery is checked prior to unloading to ensure the integrity of the grain in storage will be maintained.

Grain of differing varietal grade classification is not blended unless:

- The outcome of the resultant grain quality is known; and
- Appropriate approval has been obtained from the owner of the grain.

### **2.5.2 Grain Quality Management during Storage**

During the storage period:

- Segregations and grain integrity are maintained to meet market requirements;
- Regular sampling and grain inspection occur, and these processes are documented;
- Hygiene of the grain is maintained;
- Insect and pest control programs are implemented to assist in maintaining the hygiene of the stored commodity and meet marketing requirements on outturn;
- Following grain movement, grain spillages are to be cleaned on a regular basis; and
- Relevant records are maintained for all storages and when grain is moved within the storage facility. These records may include:
  - Commodity
  - Grade
  - Quality
  - Chemical treatments

### **2.5.3 Grain Outturn – Domestic**

All handling and transport equipment is inspected prior to moving grain to ensure:

- It is of an adequate standard; and
- It will not compromise the integrity or quality of the grain.

During and prior to outturn:

- Quality requirements of the customer are known, and stock is selected based on meeting those requirements;
- Representative samples are taken, and grain is physically inspected to ensure its quality has been maintained whilst in storage;

- Representative samples obtained are retained for a suitable period. A documented sampling, testing and sample retention procedure ensures staff are aware of requirements;
- As required, representative samples are taken according to requirements of the National Residue Survey;
- Transport units to be loaded with grain are to comply with relevant weight limits;
- Where grain weight is assessed, it is determined on a Registered Weighbridge; and
- Suitable documentation (e.g., CVD) is supplied with the outturned grain to identify its quality and integrity.

#### **2.5.4 Grain Outturn – Export**

Grain may be exported in bags, containers or bulk. Documented procedures apply to each type of export operation. [Explore TGD](#)

All export premises, grain handling equipment, pathways and processes must meet any regulatory requirements, including those stipulated by Plant Export Operations.

Documented procedures are to be maintained at the export premises relating to a range of procedures including but not limited to storage and grain pathway hygiene, grain sampling, grain testing and sample retention.

Grain testing is used to confirm appropriate stock is selected and loaded and it will meet customer and regulatory requirements.

Grain loading may commence:

- Once the empty vessel (e.g., bulk vessel, container or bag) is deemed fit to load, as per Plant Export Operations, Australian Maritime Safety Authority and any other relevant regulations and requirements;
- If grain pathways and the empty vessel have been inspected and it is determined they do not contain any material that may adversely impact on the quality of the grain to be loaded; and
- Once the quality of grain accumulated is known. No grain is to be loaded unless the quality is known.

During loading:

- Grain is inspected as per Plant Export Operations requirements;
- Representative samples are taken as per documented procedures at the required rate of 2.25l/33.33t;
- Grain as sampled is tested for quality;
- Analytical results obtained using objective testing technology take precedence over results obtained by subjective assessment methods; Independent inspection companies are used where contractually required to independently verify the quality of grain loaded:
  - Representative samples of the cargo may be taken directly by independent inspection companies; or
  - Representative samples of the cargo are provided to the independent inspection company;
- As required, representative samples are taken according to requirements of the National Residue Survey; and

- Where certification is produced, this certification is based on:
  - The representative nature of the cargo;
  - Assessment of the grain to verify the certification statement; and
  - Any legal requirements such as those required by Plant Export Operations.

During loading, samples are to be obtained representing the grain loaded. These may be assessed or retained as required.

## **2.6 Transport**

The efficient logistics of grain movement is a focus of industry.

For every grain movement, all participants shall:

- Maintain the quality and integrity of the grain;
- Prevent unintentional contamination of the load; and
- Transport grain to their designated markets, safely and within the relevant laws.

This is achieved through compliance with the Grain Transport Code of Practice (GTCoP) jointly developed by GTA and industry or other industry approved Transport Codes of Practice. Adoption of the GTCoP and its guidelines by industry participants is a commitment to operate together; safely and efficiently whether this is a commodity trader, local storage operator, a transport company, grain processor, packing facility or export terminal.

### **2.6.1 Regulations**

All supply chain participants involved in the transport of grain comply with:

- Regulations relating to all activities associated with transport vehicles such as
  - Vehicle cleaning;
  - WHS requirements;
  - Loading and unloading;
  - Consigning;
  - Scheduling;
  - Driving;
  - Vehicle mass;
  - Driver fatigue management; and
  - Vehicle roadworthiness.
- Primary duties under Chain of Responsibility legislation;
- Relevant Biosecurity requirements; and
- Relevant industry Codes, including any industry approved Transport Code of Practice.

All staff involved in the grain transport process are to have the relevant licences, permits and be appropriately trained.

## 2.6.2 Processes

All supply chain participants:

- Must demonstrate compliance with Chain of Responsibility by
  - Having established and determined the business' Transport Activities;
  - Performance of a risk assessment to identify risks within these Transport Activities;
  - Completion of a process to establish what steps are reasonably practicable for the business to comply with Chain of Responsibility parameters (such as preventing mass breaches, ensuring drivers do not speed);
  - Development and ongoing review of supporting Policy and Procedures;
  - Implementation of active training; and
  - Development of a means to record activity and to audit processes and procedures for compliance.
- Must achieve the minimum standards of grain hygiene for road transport units and loading/unloading equipment as relevant:
  - Must have suitably documented systems, procedures, and training for all staff and contractors to meet the grain industry requirements for the transport of grain;
  - Must be able to demonstrate adherence to the relevant Transport Code of Practice through records and audits, and must provide those records on request;
  - Must use dedicated transport units where possible where there is a risk of contamination of subsequent loads;
  - When required, are to sample grain during loading or unloading to minimise the loading or discharge of inappropriate quality grain;
  - Where available must ensure grain is loaded into transport units safely and within legal weight limits, using a Registered Weighbridge. Where a weighbridge is not available the methods as described in the GTA Transport Code of Practice are to be adhered to; and
  - Must use compliant practices. This includes the end recipients of transport providers.

Where non-compliance has been detected:

- Actions must be taken to remedy the situation as soon as possible; and
- Where legally required, such incidents must be reported to the relevant authority.

All transport units (e.g., rail wagons, road trucks, containers):

- Are to be inspected and cleaned to an agreed industry standard prior to loading; [Explore TGD](#)
- Are to be of suitable condition to maintain the integrity and quality of the product to be loaded (e.g., able to be enclosed);

- Are to be suitably dry and free of contaminants to preserve the quality of the grain to be loaded (e.g., free of fertiliser residues); [Explore TGD](#)
- Must comply with any industry or regulatory “prior load” requirements;
- Must be accompanied by relevant documentation and not be loaded unless the required documentation is provided;
- Are not to contain chemical residues that may impact on the integrity of the grain to be loaded or violate market or regulatory requirements;
- Must only be loaded with a quantity of grain that meets legal weight limits;
- Are not to be used to fumigate grain while in-transit unless legally permitted to do so; and
- Are to be cleaned in a suitable biosecurity area following discharge.

## 2.7 Marketing

The Australian grain industry:

- Proactively identifies, engages in and maintains access to domestic and international markets;
- Strives to adopt common documentation and data management processes to assist these aims;
- Provides structured training programs to increase the awareness, and capability of industry participants to better support marketing goals;
- Supports the use of documented contractual terms to facilitate aspects of the grain trade outlined within this Code, including where appropriate the use of the Commercial Resources developed by GTA<sup>24</sup> covering grain sales contracts, storage and freight agreements and grain standards; and
- Implements appropriate procedures for the management of grain quality to:
  - Underpin the product standard; and
  - To comply with food safety requirements.

### 2.7.1 Marketing Australian Grain

When marketing Australian grain:

- Industry participants do so with the intention of promoting and maintaining the reputation of Australian grain and the supply chain that delivers the products to the domestic and international markets;
- Where applicable, the relevant grain standard and description as applied by industry will be used. This includes where relevant any varietal classification rules as outlined in the Varietal Master List;
- Preference is for the use of industry contracts and published grade standards;
- All grain traded is to be supplied with appropriate documentation;
- Buyers communicate relevant grain standards and specifications to their suppliers in clear, meaningful and accurate terms;
- GTA grade standards (e.g., referring to CS number) will only be used where the final grain out-turned meets all specifications of that standard including objective quality parameters, relevant Varietal Master Lists and varietal purity, and all rules associated with those grades are complied with, including:
  - Applicable dates for implementation of new seasons’ standards
  - Re-classification of old seasons’ grain

<sup>24</sup> Various contracts and documents <http://www.graintrade.org.au/contracts>

- Blending of old and new seasons' grain
- Where samples or analytical results are required to be provided as per contract terms, the marketer or supplier of the grain arranges these samples to be taken so as to be representative of the consignment and assessed as per industry sampling and testing protocols;
- Certification is only to be supplied based on appropriate information; and
- Provision of analytical results is only to be supplied based on:
  - Appropriate sampling and testing; or
  - As outlined in the relevant contract; or
  - According to national or international standards.

For grain destined for the domestic market, the grain meets all relevant Australian regulations such as:

- The FSANZ Food Standards Code;
- APVMA MRLs; and
- Where supplied for stockfeed use, all State and Territory stock food regulations.

For grain exported, the grain complies at all times with:

- Requirements outlined in the Export Control Act<sup>25</sup> and associated legislation, including the collection of representative samples of the consignment
- Quarantine requirements of the importing country<sup>26</sup>; and
- Relevant international standards such as:
  - CodexAlimentariusCommission<sup>27</sup>
  - Importing country MRLs for chemicals, MLs for other contaminants such as heavy metals/mycotoxins and other relevant contaminant restrictions
  - The Cartagena Protocol on Biosafety<sup>28</sup>

### **2.7.2 Market Access**

Industry will actively cooperate with the Australian Government and industry organisations such as Grain Trade Australia and the Grains Industry Market Access Forum to:

- Understand existing market requirements;
- Keep updated with changing market requirements and advise industry and the Australian Government where required (e.g., Import Permit conditions as listed on MICoR)
- Maintain access to existing markets;
- Improve market access where applicable;
- Develop new markets for grain domestically and internationally; and

<sup>25</sup>Export Control Act 1982 - <https://www.legislation.gov.au/Details/C2012C00259>

<sup>26</sup> Quarantine requirements of Importing Countries, MICoR <http://www.daff.gov.au/micor/plants>

<sup>27</sup> CodexAlimentariusCommission - <http://www.fao.org/fao-who-codexalimentarius/en/>

<sup>28</sup> Cartagena Protocol on Biosafety - <http://bch.cbd.int/protocol/>

- Meet all of the requirements of its markets, including those related to food safety, quality and quarantine;
- Comply with any specific market quarantine or other requirements where agreement has been reached by the Australian Government and industry jointly (e.g., industry management plans, protocols); and
- Assist to promote the grain industry through development and use of general documentation outlining industry practices (i.e., promotional material).

Each industry participant recognises its responsibility to maintain and grow the reputation of Australian grain. Through its actions, each participant will adopt policies and processes to ensure that trade to markets is maintained and future trade to markets is enhanced. Where actions are identified that may negatively impact on market access or the reputation of Australian grain, relevant corrective action will be undertaken either by individual participants or jointly with other sectors of the Australian grain industry.

### **2.7.3 Contract Documentation**

The commercial relationship between parties will be managed by a contract. Services offered by participants along the supply chain are documented and publicly available.

GTA will maintain templates for grain sales contracts as required by industry. The AusGrain 2015 Voyage Charterparty,<sup>29</sup> freight and storage contracts<sup>30</sup> are also available.

The contractual relationship will be bound by provisions of one or more of the following:

- Contract law;
- Government legislation;
- Industry rules such as the GTA Trade Rules<sup>31</sup>; and/or
- The provisions of the terms and conditions of the specific contract.

The GTA Trade Rules can be used to govern the arrangements that underpin transactional relationships between parties. Where used, all parties involved in buying and selling grain should be familiar with those GTA Trade Rules and ensure they understand the terminology of the industry.

Where used the GTA Trade Rules assist to harmonise the various contracts and trade rules in operation within the Australian market including for other specialty grain contracts. The Trade Rules reflect trade practices and facilitate organised trade between buyers and sellers in the grain industry.

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<sup>29</sup> AusGrain 2015 Voyage Charterparty - <http://www.graintrade.org.au/sites/default/files/file/Contracts/2015/Ausgrain%202015%20-%20Final.pdf>

<sup>30</sup> Freight and Storage Contracts - <http://www.graintrade.org.au/contracts>

<sup>31</sup> GTA Trade Rules - [http://www.graintrade.org.au/trade\\_rules](http://www.graintrade.org.au/trade_rules)

All parties involved in buying and selling grain should ensure they understand the terminology used by industry.

- Where appropriate all parties involved in buying and selling Australian grain will conduct trading activities in accordance with the GTA Trade Rules, or practices equivalent to or exceeding the GTA Trade Rules, and all parties should have a full appreciation of the GTA Trade Rules;
- Grain contracts will clearly define payment and other contract terms. Where terms and conditions are outside the industry standard, parties will make their counterparties aware of these terms;
- When using industry terminology, buyers will use this in line with the intent of the definition;
- Industry participants will ensure that they understand the nature of the contract, its pricing characteristics, the risks in relation to the contract and under what circumstances and through what mechanism the original terms of the contract can be altered<sup>32</sup>;
- Producers should clearly understand at the time of contracting what the risk and its implications are in the event of production difficulties and the inability to fulfil contract obligations due to reduced or failed production;
- Where variations to the contract are agreed, these should be confirmed in writing between the parties in a clear and transparent manner;
- Parties to a GTA contract should reference the GTA Dispute Resolution Service in all contracts; and
- Parties to contracts incorporating the GTA Trade Rules are obliged to refer any dispute to GTA for settlement under the GTA Dispute Resolution Service.

Buyers and other industry participants will implement the following protocols:

- Publish all fees and charges associated with any products or services in a transparent and clear manner. This will be achieved by buyers posting all fees and charges on their respective websites and/or making such information freely available upon application;
- Deduct statutory and industry levies<sup>33</sup> and end point royalties<sup>34</sup>, as required by law or contract and remit same to the relevant agency (e.g., Plant Breeder's Rights); and
- Post all grain prices exclusive of GST.

#### **2.7.4 Grain Pool Providers**

Industry participants who offer grain pools will adhere to the protocols as detailed in the TGD - Grain Pool Providers.

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<sup>32</sup> A Guide to Taking out Grain Contracts – <http://www.graintrade.org.au/contracts>

<sup>33</sup> Various Government controlled levies by commodity - <http://www.daff.gov.au/agriculture-food/levies/grains>

<sup>34</sup> PBR Licence and EPR Collection Agreement, list of the varieties and contact details for the Agent - <http://varietycentral.com.au/> or [http://www.grdc.com.au/director/events/grdcpublications/pbr\\_epr](http://www.grdc.com.au/director/events/grdcpublications/pbr_epr)

### **2.7.5 Grain Quality Data Management**

Industry will manage the capture, processing and transfer of grain quality data.

- At a minimum, data to be captured and records maintained by the company should include those required for compliance with contractual and regulatory requirements and industry standards, including for the purposes of traceability;
- The use of automated processes to capture and transfer data to participants along the supply chain is encouraged;
- Data is captured and stored for periods relevant to its use and purpose;
- Where required, there are documented procedures relating to what data is captured, the mechanism of capture and the storage period for data retention;
- Data will be used for the purposes of traceability and certification, as required; and
- Other records will be captured and retained based on the individual company Sampling Manual or Operating Procedures Manual.

### **2.7.6 Financial Management**

Industry participants employ financial management processes:

- To ensure that there are adequate resources to meet their objectives;
- To remain solvent;
- To ensure continual operation within the grains industry;
- To ensure they are sustainable, properly capitalised and funded; and
- To ensure they have adequate cash flow to support their operations over the duration of their lives and to contribute to achieving their goals. Sound financial management is undertaken.

At all times industry complies with relevant financial legislation (e.g., Financial Services Reform Act)<sup>35</sup> including any requirement for:

- Record keeping;
- Financial reporting;
- Auditing; and
- Those companies offering financial advice must operate under an Australian Financial Services License.

Companies have a documented procedure relating to financial management.

## **2.8 Training**

This Code encourages professional development through the continual development of training for staff to maintain high professional standards.

All staff including contractors and/or registered officers are to be adequately trained in the requirements of this Code. Where required, internal company audits are performed and suppliers are audited against their stated competency and records kept.

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<sup>35</sup> Financial Services Reform Act - [www.comlaw.gov.au/Details/C2005C00498](http://www.comlaw.gov.au/Details/C2005C00498)

While the specific training required will differ across the supply chain and depend on the tasks undertaken, industry participants are to ensure that all principals and staff:

- Are trained and given clear guidance so they can competently and efficiently discharge their functions and provide the services they are authorised to provide;
- Have an adequate knowledge of the provisions of this Code. There is to be sufficient personnel with the ability to carry out the provisions of this Code.
- Have completed training relevant to their roles (e.g., samplers are trained in industry sampling and testing protocols). Training may be:
  - Formal; and
  - Informal through guidance and instruction “on the job”.
- Undertake training relevant to regulatory and industry practices and as offered by industry experts (e.g., GTA Professional Development Courses);
- Comply with all relevant industry regulations and/or standards (e.g., sampler training referenced back to Industry Competency Standards);
- Keep skills and accreditations up to date through ongoing training (e.g., yearly refresher training on application of grain standards);
- Where appropriate, increase their skills through further training;
- Maintain documented evidence of training completed (e.g., Accreditation/Completion Certificate displayed in sample stand); and
- Have the appropriate support and ongoing training to ensure they can carry out their role:
  - Adequately;
  - In a professional manner; and
  - In accordance with all current regulations and industry standards (e.g., wearing appropriate clothing as per Workplace Health and Safety regulations).

Following appointment and training, all staff involved in particular activities:

- Are to be assessed;
- Are required to be “deemed competent”; and
- Have their relevant records duly noted.

## 2.9 Complaints

### 2.9.1 Customer Complaints

Industry participants will have in place a procedure for dealing appropriately with any customer complaints which may include reference to Australian Standard "Customer Satisfaction - Guidelines for complaints handling in organizations" (ISO 10002:2004, MOD)<sup>36</sup>.

GTA also provides a Complaints Handling process relating to complaints made against an industry participant [Explore TGD](#)

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<sup>36</sup> Customer Satisfaction - Guidelines for complaints handling in organizations" (ISO 10002:2004, MOD). Available at [www.saiglobal.com/shop](http://www.saiglobal.com/shop)

### **2.9.2 Complaints against an Industry Participant**

In the first instance any complaint about the conduct of an industry participant should be referred to that industry participant who should be allowed a reasonable time to address or resolve the complaint.

If the complaint is not resolved to the complainant's satisfaction the complainant should contact the GTA Compliance Officer who will address each complaint with integrity and in an equitable, objective and unbiased manner as per the GTA Complaint Handling Guidelines.

### **3. Reference Material**

#### **Appendix 1 Glossary & Definitions**

##### **AFSL (Australian Financial Services Licence)**

An AFSL authorises an individual and their representatives to provide financial services to clients. Without an AFSL, a financial services business cannot be carried out.

##### **AOF (Australian Oilseeds Federation)**

The peak industry body for the oilseed industry.

##### **AMSA (Australian Maritime Safety Authority)**

In relation to grain exports AMSA is focused on policies and guidelines relating to ship construction standards, ship survey and safety, crewing, seafarers' qualifications and welfare, occupational health and safety and the safe carriage and handling of grain cargoes.

##### **APVMA (Australian Pesticides and Veterinary Medicines Authority)**

APVMA is an Australian government authority responsible for the assessment and registration of pesticides and veterinary medicines and for their regulation up to and including the point of retail sale. The APVMA administers the National Registration Scheme for Agricultural and Veterinary Chemicals in partnership with the States and Territories and with the active involvement of other Australian government agencies.

##### **DAWR Biosecurity**

Refer to Plant Export Operations.

##### **Authorised Representative**

In relation to all operational activities of a commercial enterprise outlined in this Code, refers to all staff (permanent, casual, contractor or otherwise employed) that are permitted to conduct the relevant activity.

##### **Cartagena Protocol on Biosafety**

The Cartagena Protocol on Biosafety is an international agreement on Biosafety. Its aim is to contribute to the safe transfer, handling and use of living modified organisms (LMOs) – such as genetically engineered plants, animals, and microbes – that cross international borders. The Protocol is also intended to avoid adverse effects on the conservation and sustainable use of biodiversity without unnecessarily disrupting world food trade. The Protocol provides countries with the opportunity to obtain information before new biotech organisms are imported.

##### **Certified Reference Material**

A sample with a known quality parameter. This sample is used to determine if the testing instrument is operating within known accuracy limits

##### **Code Compliance Officer**

Person appointed by GTA for the purposes of dealing with Complaints falling under the jurisdiction of this Code, according to the Complaints Handling Guidelines.

##### **Code Signatory**

Any person and/or company who have agreed, in writing, to abide by this Code.

### **Codex Alimentarius Commission**

The Codex Alimentarius Commission was created in 1963 by FAO and WHO to develop food standards, guidelines and related texts such as codes of practice under the Joint FAO/WHO Food Standards Program. The main purposes of this Program are protecting the health of consumers and ensuring fair trade practices in the food trade, and promoting coordination of all food standards work undertaken by international governmental and non-governmental organisations.

### **Commercial Resources**

Commercial resources for the grain industry refer to the set of tools developed by GTA that enable the facilitation of trade. These include GTA Grain Trading Standards, GTA Trade Rules, GTA Contracts and the GTA Dispute Resolution Service.

### **Contact Insecticides**

Contact insecticides are pesticides that are toxic to insects when brought into direct contact with them. Examples include Fenitrothion and Chlorpyrifos-methyl.

### **Container Packer Operations Manual**

A GTA TGD that provides summary level information that will support small container exporters, both existing and new, in the establishment of effective export business procedures. A key objective of the Guidelines is to list and describe the component steps and processes relevant to operating a grain (and processed products) container packing business.

### **Contract**

A contract may be defined as an agreement between two or more persons, which is legally enforceable.

### **CVD (Commodity Vendor Declaration)**

Commodity Vendor Declaration forms are routinely used in the grain supply chain on receipt of grain from a producer or during the transfer of ownership within the trade. These forms can include details such as chemical residue status, variety, GM status and quality status of the grain.

### **DAWR (Australian Government Department of Agriculture and Water Resources)**

Under the Export Control Act 1982, DAWR controls grain exports. Plant Export Operations is part of DAWR and is responsible for this task.

### **FSANZ (Food Standards Australia New Zealand)**

FSANZ is an independent statutory agency established by the Food Standards Australia New Zealand Act 1991. It works within an integrated food regulatory system involving the governments of Australia and the New Zealand. FSANZ sets food standards for the two countries.

### **Food Standards Code**

The Code developed by FSANZ that lists the MRLs on food in Australia and New Zealand.

### **Grain**

Refers to cereal grains, oilseeds, pulses and their products.

## **Grain and Plant Products Export Industry Consultative Committee**

The Grain and Plant Products Export Industry Consultative Committee is the principal advisory forum for Plant Export Operations to consult with the grain and related industries on export certification, export market access, quarantine and other relevant issues.

## **GTA (Grain Trade Australia)**

Industry organisation providing industry with a range of commercial resources to facilitate trade.

## **GTA Contracts**

These contracts developed by GTA provide standard terms and conditions for the trade of grain within Australia.

## **GTA Dispute Resolution Service**

GTA provides a dispute resolution service that is industry based. Its aim is to avoid litigation and thereby reduce the time and expense required to resolve a dispute between parties transacting in the Australian grain industry. This service provides an equitable means to settle a dispute by a committee of industry peers.

## **GTA Grain Trading Standards**

Grain Trading Standards are used to measure and describe the physical and biological properties of grain at the time of inspection. These include any varietal classifications that may be developed by external organisations as listed in relevant Varietal Master Lists. GTA develops and distributes the wheat and coarse grain standards for Australia. It also distributes the standards for oilseeds (developed by the Australian Oilseeds Federation), pulses (developed by Pulse Australia) and birdseed (developed by the Queensland Agricultural Merchants).

## **GTA Standards Committee**

Is an industry committee administered by GTA. Its primary role is to review and make recommendations for updates of commodity standards in cooperation with Pulse Australia, the Australian Oilseeds Federation and other industry participants.

## **GTA Trade Rules**

These rules, developed with industry consultation by GTA, reflect trade practice and facilitate trade between parties in the grain, feed, oilseeds and processing industries. They govern all disputes of a mercantile, financial or commercial character connected with grain, feed, oilseeds and other commodities when traded under the terms and conditions of GTA.

## **Harvest Manual**

A document that outlines amongst other things various services offered by a storage provider at harvest.

## **Industry Standards**

In this Code, refers mainly to Grain Standards and their application.

### **IPM (Integrated Pest Management)**

Integrated Pest Management is an effective and environmentally sensitive approach to pest management that relies on a combination of common-sense practices. IPM programs use current, comprehensive information on the life cycles of pests and their interaction with the environment. This information, in combination with available pest control methods, is used to manage pest damage by the most economical means, and with the least possible hazard to people, property, and the environment.

### **Maximum Residue Limits (MRLs)**

APVMA sets MRLs for agricultural and veterinary chemicals in agricultural produce, particularly produce entering the food chain. These MRLs are set at levels which are not likely to be exceeded if the agricultural or veterinary chemicals are used in accordance with approved label instructions. At the time the MRLs are set, the APVMA undertakes a dietary exposure evaluation to ensure the levels do not pose an undue hazard to human health. The MRL Standard lists MRLs of substances which may arise from the approved use of those substances or other substances, and provides the relevant residue definitions to which these MRLs apply. Foreign country MRLs may be accessed directly from foreign government websites and the NRS grains database at <http://www.daff.gov.au/agriculture-food/nrs/industry-info/mrl>. An outturn tolerance document that provides guideline advice on post-harvest chemicals used in the treatment of stored grain and the MRLs that apply to grains marketed in Australia and overseas can be found at [http://www.graintrade.org.au/chemical\\_tolerances](http://www.graintrade.org.au/chemical_tolerances)

### **NWPGP (National Working Party on Grain Protection)**

The NWPGP is the industry body responsible for providing management and leadership to industry in the areas of post-harvest storage, chemical use, market requirements and chemical regulations. Refer to <http://www.graintrade.org.au/nwpgp>

### **NMI (National Measurement Institute)**

The National Measurement Institute is Australia's peak measurement body responsible for biological, chemical, legal, physical and trade measurement. It stipulates a number of requirements for instruments used for assessing grain quality.

### **NRS (National Residue Survey)**

The NRS monitors residues of agricultural and veterinary chemicals and environmental contaminants in Australian food commodities. The cost of this monitoring is largely industry-funded through levies on the animal and plant commodities that are tested.

### **Non residual fumigants**

Fumigants used to control insects in stored grain by completely filling an area with gaseous pesticides or fumigants that suffocate or poison the pests within. There is effectively no retention of the pesticide after application.

### **Objective Assessment Technology**

Refers to analysis of grain quality where the result is determined by an instrument (e.g., protein).

### **PA (Pulse Australia)**

Pulse Australia is the peak body for the pulse industry.

## **Plant Export Operations**

This service is part of DAWR and provides import and export inspection and certification to help retain Australia's animal, plant and human health status.

## **QA (Quality Assurance)**

Quality assurance is a 'guarantee of excellence' with the adoption of minimum standards of control and monitoring. QA involves a planned and systematic pattern of all actions necessary to provide confidence that adequate technical requirements are established, that products and services conform to established technical requirements, and that satisfactory performance is achieved. Formal systems are often developed on behalf of industry by a peak industry body or association.

## **Registered Weighbridge**

Registered Weighbridge means a weighbridge that is registered with the relevant government or trade authority.

## **Running Sample**

A sample obtained via sub-sampling each load delivered into grain segregation. Compiled based on the tonnage received. The sample is then analysed for all quality parameters to determine if individual loads into the segregation were assessed correctly.

## **Sampling Manual or Operating Procedures**

A document that outlines a range of activities performed by the company when sampling, testing and classifying grain or other activities such as operating a grain storage facility.

## **Storage and Handling Agreement**

An agreement outlining the storage and handling terms and conditions for the storage and/or warehousing and/or on-farm storage of various grain commodities.

## **Subjective Assessment**

Analysis of grain quality where the result is determined by a sampler using visual analysis.

## **Supply Chain**

The grain supply chain includes all elements of on-farm, storage and transport infrastructures.

## **Trade Certification Legislation**

Outlines the regulation of measuring instruments used for trade and provides for a system of verification of utility meters and measuring instrument used for trade.

## **Varietal Master List**

This list designates the varietal group into which each variety may be assigned for relevant commodities. The Varietal Master List may be developed by an external organisation but is an integral part of the GTA Grain Standards.

## **Variety**

Variety refers to a group of organisms within a species, having similar characteristics but not distinct enough to be a separate species.

## **Visual Recognition Standards Guide**

The Visual Recognition Standards Guide is a booklet containing a range of definitions and photographic depictions of various defects of grain. Used as a reference for assessment of grain quality parameters listed in standards.

## Appendix 2 Technical Guideline Documents

The following tables list Technical Guideline Documents that have been developed by industry as a supplement to the Code.

There are two levels of prioritisation for development of these documents:

### 2.1 EXISTING TECHNICAL GUIDELINE DOCUMENTS

No.	Title	Version
	<a href="#">Standing Operating Procedure - Approval of Technical Guideline Documents</a> (PDF 141.38 KB)	
1	<a href="#">Complaints Handling Guidelines</a> (PDF 477.3 KB)	1.0
2	<a href="#">Test Weight Assessment</a> (PDF 683.33 KB)	1.0
3	<a href="#">Sprouted Grain Assessment</a> (PDF 578.39 KB)	1.0
4	<a href="#">Operating Standards for Pool Providers (Revised Sept 2017)</a> (PDF 1.34 MB)	1.1
5	<a href="#">Static Grain Sampling - Road Truck</a> (PDF 712.99 KB)	1.0
6	<a href="#">Grain Certification</a> (PDF 611.98 KB)	1.0
7	<a href="#">Wheat Blending</a> (PDF 621.26 KB)	1.0
8	<a href="#">Disputing Classification</a> (PDF 594.11 KB)	1.0
9	<a href="#">Grain Drying</a> (PDF 672.23 KB)	1.0
10	<a href="#">Truck Cleaning</a> (PDF 683.51 KB)	1.0
11	<a href="#">Growing Australian Grain (Safely managing risks on-farm)</a> (PDF 2.91 MB)	1.0
12	<a href="#">Managing Heat Damaged, Bin Burnt &amp; Storage Mould</a> (PDF 563.29 KB)	1.0
13	<a href="#">Grain Levies</a> (PDF 530.22 KB)	1.0
14	<a href="#">Commodity Vendor Declaration (CVD)</a> (PDF 481.97 KB)	1.0
15	<a href="#">Managing Chemical Violations</a> (PDF 723.53 KB)	1.0
16	<a href="#">Trade Certification (Assessing Grain Quality)</a> (PDF 627.6 KB)	1.0
17	<a href="#">Container Packer Operations Manual</a> (PDF 722.49 KB)	1.0
18	<a href="#">Truck Cleaning Procedures - Treated Fertiliser</a> (PDF 600.28 KB)	1.0
19	<a href="#">Broker / Agent Operating Standards</a> (PDF 631.07 KB)	1.0
20	<a href="#">National Residue Participation</a>	