

Grain sampling instructions

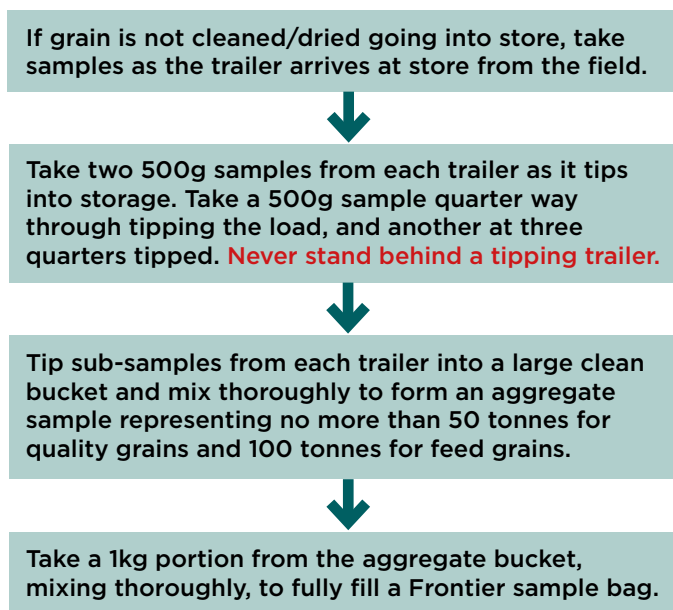
The challenge in grain sampling is to obtain a representative sample that will accurately reflect the characteristics of the whole bulk, whilst adhering to best practice in health and safety.

The best opportunity to do this is when filling the store at harvest, as this allows for regular incremental samples to be taken from each trailer load. The resultant aggregate sample must be mixed to create one final representative sample for each portion of the bulk. These final samples will be collected by Frontier and taken for analysis.

Test results obtained from trailer samples will better represent the bulk than those obtained by spearing the heap. This means you will have a better understanding of the variability of your grain, which will aid marketing decisions and help ensure that your grain meets contract specifications.

Sampling guidelines

- The AHDB Grain Sampling Guide details the most accurate method of taking samples as crops go into store: www.ahdb.org.uk/grainsampling




- Alternatively, 250g incremental samples should be taken every 10 tonnes from the cleaner or drier outlet.
- If you must sample from the heap, samples should be taken evenly over an area representing no more than 50 tonnes (for quality grain) or 100 tonnes (for feed grain). A 2 metre, multi-aperture, sequential opening grain spear should be used.
- Sample bags should be filled to the top, the air expelled and sealed tightly. Label the bag following the instructions below/overleaf.
- To arrange sample collection please call your Frontier farm trader.

Labelling a Frontier grain sample bag

Complete the green area of the sample bag fully, giving as much detail as possible (in block capitals) including:

- Account name
- Account number
- Address - Frontier account address
- Frontier farm trader's name
- Sample date
- Sampled by - tick 'Farmer'
- Commodity and variety (essential for all wheat, oats and barley)
- Tonnage the sample bag represents
- Grain location - (see notes on Sample Locations overleaf).

Sample number <small>(Frontier use only)</small>		Sequence			
Account Name: GRAIN FARM			Account Number: 1234567		
Account Address: GRAIN FARM, FARMTOWN, FR11 1FR					
Frontier Farm Trader:		Sample Date: 01/01/2016			
JOHN SMITH		Sampled By: <input checked="" type="checkbox"/> Sampler (Frontier) <input type="checkbox"/> Farmer			
Commodity: BARLEY		Variety: PROPINO		Tonnage sample represents: 50	
Grain location					
Farm where stored: GRAIN FARM		Store ID: BLACK BARN		Location in store: 1LH5	
Other information:					
		<input checked="" type="checkbox"/> Insects		<input checked="" type="checkbox"/> Mould	
		<input type="checkbox"/> Weevil		<input type="checkbox"/> Ergot	
		<input type="checkbox"/> Glass			
Frontier Use Only			Mycotoxins (tick boxes for analysis required)		
<input type="checkbox"/> DON: _____		<input type="checkbox"/> ZEAR: _____		<input type="checkbox"/> T2/HT2: _____	
<input type="checkbox"/> Code 2		<input type="checkbox"/> Code 5		<input type="checkbox"/> OA: _____	
<input type="checkbox"/> Moisture: _____		<input type="checkbox"/> 2.5mm: _____		<input type="checkbox"/> 2.25mm: _____	
<input type="checkbox"/> Kg/ht: _____		<input type="checkbox"/> 2.0mm: _____		<input type="checkbox"/> _____mm: _____	
<input type="checkbox"/> Pro/Nit: _____		<input type="checkbox"/> Hagberg: _____		<input type="checkbox"/> Rapid germ: _____	
<input type="checkbox"/> Admix: _____		<input type="checkbox"/> C. Ergot: _____		<input type="checkbox"/> Skinned: _____	
<input type="checkbox"/> G. Ergot: _____		<input type="checkbox"/> Broken: _____			
Comments:					
Any combination of the following (-/+)					
		<input type="checkbox"/> Insects		<input type="checkbox"/> Mould	
		<input type="checkbox"/> Droppings		<input type="checkbox"/> Glass	

Sample locations

A standard method for describing the location of grain on farms is necessary to allow easy identification during marketing discussions. **Three pieces of information need to be established:**

- **FARM WHERE STORED** - name of the farm where bulk is located - e.g. Grain Farm
- **STORE IDENTITY** - identify where on the farm the bulk is stored - e.g. Black Barn
- **LOCATION IN STORE** - the location of the sample within the bulk.

Grain location in flat stores

Use bays as markers, numbering from the back (or first filled end of the store). Also, Left hand side (LHS), Right hand side (RHS), and Middle in a large store.

Back	
Left	Right
Bay 1L	Bay 1R
Bay 2L	Bay 2R
Bay 3L	Bay 3R
Front	

e.g. *In the Black Barn at Grain Farm*

Bay 1 Left should be labelled on the sample bag as:

Grain Farm/Black Barn/1LHS

Bay 3 Right should be labelled on the sample bag as:

Grain Farm/Black Barn/3RHS

Grain location in bins

If the bins are numbered on the farm, use the existing bin numbers.

If the bins are not numbered, number from the back towards the point of entry and/or from left to right.

Indoor bins

Back	
Left	Right
Bin 1L	Bin 1R
Bin 2L	Bin 2R
Bin 3L	Bin 3R
Point of access	
Front	

e.g. *In Indoor bins at Grain Farm*

1st bin on left should be labelled on the sample bag as:

Grain Farm/Indoor Bin/1LHS

Outdoor bins



e.g. *In Outdoor bins at Grain Farm*

3rd bin from left should be labelled on the sample bag as:

Grain Farm/Outside Bin 3

Health & Safety advice related to grain sampling

- We urge you to ensure you have safe systems of work on farm regarding grain sampling. Think safe and review HSE advice: www.hse.gov.uk/agriculture
- 'Farmwise' is an essential HSE guide to health and safety: www.hse.gov.uk/pubns/books/hsg270.htm