



**Measure grain nutrient
levels to improve crop
nutrition plans**



GrainCheck

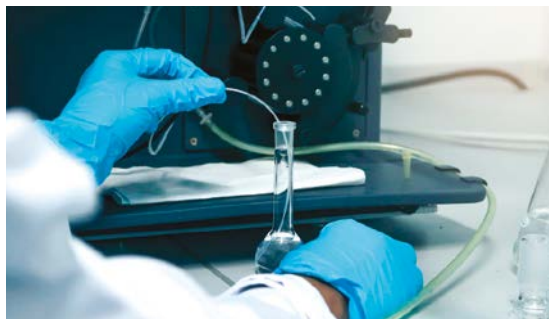


NRM's GrainCheck service was launched in 2020 following several years of work with ADAS on the Yield Enhancement Network (YEN) project and to coincide with the RB209 recommendation for routine grain analysis. The test is suitable for all cereal crops and should be interpreted alongside soil and tissue test results to give a full understanding of the effectiveness of crop nutrition programmes.

GrainCheck includes the following analyses:

- | | | |
|--------------|-------------|-------------|
| • Nitrogen | • Calcium | • Copper |
| • Potassium | • Magnesium | • Iron |
| • Phosphorus | • Manganese | • Boron |
| • Sulphur | • Zinc | • N:S ratio |

GrainCheck Plus also includes molybdenum analysis.



Why measure grain nutrient levels?

Grain nutrient analysis at harvest is recommended by RB209 to assess crop nutrient capture and offtake, allowing management plans to be refined for the following season. Many growers use soil analysis to predict nutrient availability, and tissue analysis during the season to measure uptake. Grain analysis completes the picture, allowing you to assess crop nutrition performance and benchmark your results against ADAS critical values.

- Identify any nutrient shortfalls, allowing investigation into possible causes
- Compare crop performance across your farm
- Assess the success of crop nutrition programmes and
- Interpret results alongside soil and plant tissue results to improve input efficiency for future seasons
- Benchmark results against previous seasons and against regional data provided by YEN.

Grain nutrient analysis is also a good method of assessing the suitability and fertility of home-saved seed.



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- Manganese
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GrainCheck Plus also includes molybdenum analysis.

GrainCheck results are presented in an easy to understand format and are straightforward to interpret.

Your GrainCheck report

GrainCheck results are presented in an easy to understand format, showing the dry matter nutrient content of the grain sample against the target nutrient content, as defined by ADAS. We recommend reviewing your results alongside soil and plant tissue analysis results with a FACTS qualified advisor.

You can convert your GrainCheck results into nutrient offtake in kg per hectare by inputting your figures into our online calculator. Remember to take account of straw removal when calculating nutrient offtake. This can be sampled and analysed too.

How to order GrainCheck

We will provide you with a sample kit which contains everything you will need to place an order for GrainCheck analysis: sample bags, analysis request forms and postage boxes/ bags. You can order your kit through your agronomist, on our website or by contacting customer services at NRM.

How to take your grain samples

- Take grain samples at harvest, ideally several sub-samples per field or zone. The more sub-samples you take from each field or zone, the more representative your results will be.
- If you plan to compare your grain analysis with your soil analysis, then sample your grain in the same zones as you sampled your soils.
- Take two samples from each trailer before the grain is tipped. Add all the samples from the same field or zone to a labelled bucket and mix thoroughly.
- Take a representative sample from the bucket, put into the NRM sample bag and label with the field or zone name/number and date.
- Use our postal or courier services to send your samples to NRM with the relevant paperwork.

Contact us on 01344 886338
www.cawood.co.uk/nrm



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