



Plant tissue
analysis linked to
crop growth stages



CropCheck



NRM's new plant tissue analysis package, CropCheck, provides nutrient values linked to crop growth stages coinciding with the fertiliser application window.

CropCheck drives efficiency by assessing the plant as it develops and providing data that allows growers to adjust crop nutrition decisions at a key time in the season. Farmers using CropCheck will either be reassured that the crop is on track to reach its full yield potential, or they will have the opportunity to correct any issues before it is too late.

CropCheck is suitable for a broad range of cereal crops, including:

- Winter and spring barley
- Winter and spring wheat
- Winter and spring oats
- Rye

Growth stages range from GS 30 to GS 37.



Why use CropCheck?

Plant tissue testing is used to check the nutrient status of the crop to ensure it is accessing all the nutrients it requires to support its growth. CropCheck takes this a step further.

Before CropCheck, results were benchmarked against general critical values. This allowed farmers and advisors to estimate crop progress but was not specific to the growth stage of the crop. NRM has identified specific nutrient adequacy ranges for each cereal crop at the key growth stages that coincide with the fertiliser application window.

CropCheck:

- Drives efficiency by assessing the growth of the plant as it develops.
 - Allows for time within the season to correct any issues.
 - Helps save money on expensive fertilisers by tailoring nutrient requirements.
 - Highlights issues within the soil plant system such as nutrient imbalances.
 - Provides accurate information to support crop nutrition programme adjustments.
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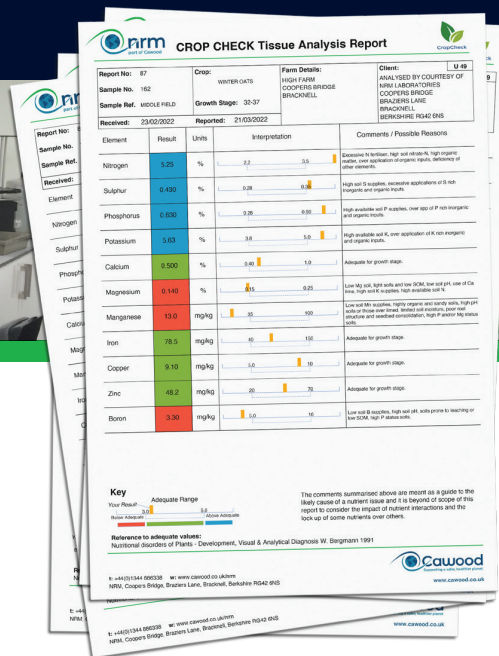
Your CropCheck report

We will provide you with sample kit containing everything you need to place an order for CropCheck analysis. This comes with an analysis request form, sample bags, sample posting envelope, and full instructions on how samples should be taken, prepared, and sent to the laboratory.

CropCheck results are reported in an easy-to-understand visual format so nutrient adequacy can be determined quickly. Interpretation is also provided to guide why nutrients might be high or low.

The CropCheck analysis results will be provided the day after the sample arrives at the laboratory, so that any nutrient inadequacies can be immediately rectified.

You can order your kit through your agronomist, on our website, or by contacting customer services at NRM.



CROP CHECK Tissue Analysis Report			
Report No: 87	Crop: WINTER OATS	Farm Details: HIGH FARM COOPERS BRIDGE BRACKNELL	Client: ANALYSED BY COURTESY OF NRM LABORATORIES COOPERS BRIDGE BRACKNELL BRACKNELL ROAD EN6
Sample No: 152	Growth Stage: 33-37	Received: 23/02/2022	Reported: 21/03/2022
Element	Result	Units	Interpretation
Nitrogen	5.25	%	2.2 - 5.5
Sulphur	0.420	%	0.28 - 0.6
Phosphorus	0.830	%	0.28 - 0.9
Potassium	0.63	%	3.8 - 5.0
Calcium	0.500	%	3.40 - 1.9
Magnesium	0.140	%	0.15 - 0.25
Manganese	33.9	mg/kg	30 - 100
Iron	78.5	mg/kg	40 - 150
Copper	9.10	mg/kg	5.0 - 10
Zinc	48.2	mg/kg	20 - 70
Boron	3.30	mg/kg	5.0 - 10

Key
 Adequate Range: 3.0 - 5.0
 High: > 5.0
 Low: < 3.0

The comments summarised above are meant as a guide to the likely cause of a nutrient issue and is beyond the scope of this report to consider the impact of nutrient interactions and the look up of some nutrients over others.

Reference to adequate values: Nutritional Standards of Plants - Development, Visual & Analytical Diagnosis W. Bergmann 1991

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How to take your samples

Accurate interpretation of CropCheck's tissue analysis service depends on correct sampling. To get the most from your results, you need to sample at the main fertiliser application timings. This is because CropCheck provides specific nutrient adequacy levels for cereal crops between GS 30 and GS 37, when the flag leaf is just becoming visible.

- Sample the whole above-ground portion (clipped between 5 and 8 cm)
- Collect 200g of material per sample
- Please do not include any soil or root material or you will contaminate the sample
- Try not to include excess water—dab with a tissue if necessary
- Make sure you include your completed analysis request form.

Please see your CropCheck pack for more information.

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



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