



**N-Check: measure soil
mineral nitrogen levels
to improve nitrogen
use efficiency**



N-Check



NRM's new N-Check service is designed to help farmers optimise crop production and help protect against volatile fertiliser prices. Built from NRM's existing Min-N service, N-Check is a comprehensive soil mineral nitrogen measuring package which gives analysis for each sampling depth as well as a combined total. The test is suitable for all arable farm businesses and enables informed decisions to be made around crop management and nitrogen applications.

N-Check includes the following (all in kg/ha):

- Nitrate-Nitrogen
- Ammonium-Nitrogen
- Soil Mineral Nitrogen (SMN)
- A total SMN value for each sample depth, and overall for each of the above

N-Check Plus also includes:

- Organic matter
- Estimate of mineralisable nitrogen
- A Spring crop nitrogen estimate (supplied by the advisor)
- Soil Nitrogen Supply (SNS)
- RB209 SNS index



Why measure soil nitrogen levels?

Soil nitrogen analysis is recommended by RB209 to assess soil nitrogen levels ahead of the Spring growing season. Growers use soil nitrogen analysis to enable refinements to nitrogen inputs, as well as to monitor and enhance crop nutrition programmes to meet requirements for desired yield, maintaining productivity and profitability.

- Understand soil nitrogen levels across different fields, soil types and within different crop rotations.
- Manage nitrogen inputs to ensure applications meet crop requirements.
- Reduce the cost of production.
- Protect against volatile fertiliser prices.
- Compare crop performance across the farm.
- Interpret results to improve Nitrogen Use Efficiency (NUE).



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N-CHECK REPORT

Client: NRM LABORATORIES, COOPERS BRIDGE, BRAZERS LANE, BRACKNELL, BERKSHIRE RG42 6NS

Farm Details: HOME FARM, BRACKNELL, BERKSHIRE, RG42 6NS

Report No: 12345

Received: 19/01/2020

Reported: 21/01/2020

Analytical Report

Sample Matrix: SOIL

The sample submitted was of adequate size to complete all analysis requested. The sample will be kept under refrigeration for at least 1 week.

ANALYTICAL RESULTS on 'dry matter' basis with correction for stone content: +

Lab Reference	Sample Reference	Nitrate-N kg/ha	Ammonium-N kg/ha	SMN 30cm profile kg/ha
12345	A FIELD 0-30	10.73	0.99	46.9
12345	A FIELD 30-60	15.99	1.16	68.8
12345	A FIELD 60-90	6.38	0.58	27.9
TOTAL OF ALL SAMPLE DEPTHS		33.1	2.73	143.6
12345	B FIELD 0-30	10.73	0.99	46.9
12345	B FIELD 30-60	15.99	1.16	68.8
12345	B FIELD 60-90	6.38	0.58	27.9
TOTAL OF ALL SAMPLE DEPTHS		33.1	2.73	143.6

+ If stones content not stipulated on sample submission form then 0% Stones assumed.
 ++ SMN (Soil Mineral Nitrogen) = a measure of crop available soil nitrogen. If no sample depth is provided on analysis request form, a 30cm sampling has been assumed.

Released by: Dr R C Wilkinson. On behalf of NRM Ltd. Date: 28/08/18

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 NRM, Coopers Bridge, Brazers Lane, Bracknell, Berkshire RG42 6NS

Your N-Check report

N-Check results are presented in an easy to understand format, showing the total amount of nitrate-N, ammonium-N and Soil Mineral Nitrogen (SMN) at each sample depth, and the overall Soil Nitrogen Supply (SNS). We recommend reviewing your results with a FACTS qualified advisor, using RB209 to calculate the crop nitrogen fertiliser requirements.

How to order N-Check

We will provide you with a sample kit which contains everything you will need to place an order for N-Check analysis: insulated courier boxes, ice packs, sample bags, analysis request forms, supporting documents on filling in the forms effectively and couriers. We also provide technical details explaining your results. You can order your kit through your agronomist, on our website, or by contacting customer services at NRM.



How to take your N-Check soil samples

- Plan to take samples at the beginning of the week and freeze ice packs ahead of sampling.
- Do not sample fields where nitrogen or manure has already been applied.
- Take a representative sample. This means avoiding gateways, headlands, and unrepresentative areas of the field.
- Where soil depth allows, sample down to 90cm in three 30cm profiles. This allows for an accurate SNS index to be given. Where soils are shallower, sample as deep as possible.
- Sample the field at 10 to 15 locations. If the field is larger than 20ha, sample 20-25 locations.
- Sample fields with different soil types at different points in the rotation. Or different blocks of land to gather a good understanding across the farm.
- Keep samples chilled at fridge temperature at all times.
- Estimate the crop size when taking soil samples.
- Use our courier services to send your samples to NRM with the relevant paperwork. Book your NRM courier for collection no later than Thursday.

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



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