

Soil and Nutrient Network

Helping farmers improve soil and nutrient management



National Advice Hub

T: 0300 323 0161

E: advice@fas.scot

W: www.fas.scot

Case study - Knockglass Farm Nr Thurso

Knockglass Farm near Thurso, Caithness was purchased by brothers Robbie and Andrew Mackintosh in May 2015 as they sought to increase their farming enterprise. They already have land at Glengolly, Housty and Gelshfield. The 67.50ha purchased at Knockglass took their total farming enterprise to 205ha with an additional 52ha taken on seasonal land. They farm approximately 90 cows and 1000 ewes.

At the first meeting in March 2016, the brothers were keen to focus their attention on the nutrient status of the land at Knockglass as it had been let out for grazing for 10 years prior to their purchase. Here we consider at some of the findings and key points discussed at the meeting.



Greening - nitrogen fertiliser and lime plan

There are new rules regarding greening and the production of a nitrogen fertiliser and lime plan.

This requirement means farmers with fields of wholly permanent grassland on their Single Application Form must now prepare a plan detailing the amount of inorganic fertiliser and lime they **intend** to apply to each permanent grassland field. It must be completed by 9th June 2017 and available for inspection but the plan does not need to be submitted to SGRPID.



For more information on the Soil and Nutrient Network see www.farmingandwaterscotland.org. For dates of SNN events, find us on Facebook or follow us on Twitter @FarmWaterScot.



Scottish Government
Riaghaltas na h-Alba
gov.scot



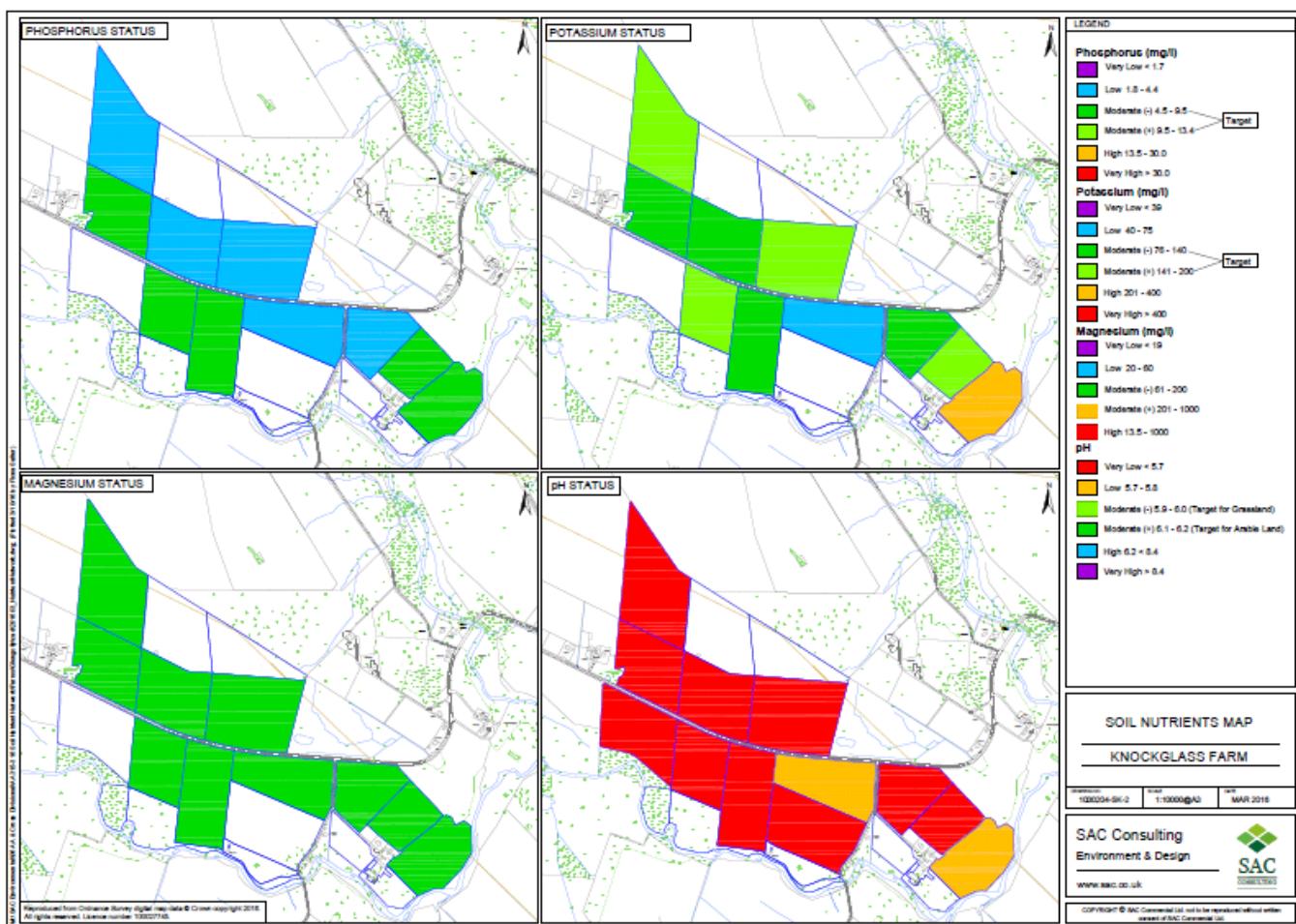
Know your soil nutrient status

The soil analyses at Knockglass revealed the nutrient status across 12 fields on the farm. Knowing soil nutrient status allows you to make best use of slurry, manures and bought in fertiliser, helping you to target their application where it is needed.

If soil pH, P and K are lacking, then N cannot be utilised to its full effect, you will not get the yields you are targeting. Ultimately it will be costing you money to apply N for little gain.

For P and K, targets are to aim for a Moderate status, especially if you need more grass, or are using good levels of Nitrogen fertiliser each year. For a lower intensity system, where little or no N is being spread, then the target is to maintain your existing P and K status – i.e. do not allow it to drop further.

So if you do not know your pH, P and K status, then you cannot make informed decisions on grassland management - the key message here is to get your soil analysed and prepare a nutrient budget.



What did soil testing tell us at Knockglass?

Of the 12 fields sampled, the results above showed that **the key issues for land at Knockglass are its pH and its P status**. The soil analyses gave Robbie and Andrew a clear picture of the land they had taken on and next steps to improve productivity. Soil testing showed that:

- Ten fields were very low for pH
- pH ranged from 5.3 – 5.8
- All fields were either low or moderate for P
- Ten out of 12 fields were moderate for K