## Improving nutrient use efficiency

Using the Phosphorus Budgeting Tool for making better fertiliser decisions

Fertiliser application is a significant expenditure for most farm budgets and for many beef and sheep producers fertilising their whole property annually is considered too costly. Soil tests are one tool farmers can use to assist in the fertiliser decisions.

The Phosphorus Budgeting Tool enables farmers to calculate the rate of phosphorus required based on stocking rates, current soil phosphorus levels and production goals. This easy-to-use calculator will assist the producer in making management decisions, whether you are starting from scratch or looking to refine your existing fertiliser program.

## **Maintenance Rate**

Maintenance rate is the amount of phosphorus that has been removed from the farm and should be replaced each year. The old rule of thumb of 1 kg/dse/ha has been refined through research to improve profitability and minimise environmental impacts.

Producers can determine the maintenance rate for their property taking into consideration soil type, landscape, grazing management and rainfall.

## **Capital Rate**

The capital rate is the amount of phosphorus required above and beyond maintenance rate to increase the phosphorus level. The target phosphorus level for grazing enterprises is 15 mg/kg (Olsen P) and exceeding this level is a potential waste of inputs as it does not necessarily grow extra feed.

Producers are encouraged to set a target P level for their farming system taking into account farm production goals, soil and landscape constraints.

## **Phosphorus Budgeting Tool Workshops**

In the workshop farmers are instructed on how use the Phosphorus Budgeting Tool and develop an annual fertiliser plan and budget for their property.

The Phosphorus Budgeting Tool can:

- Calculate annual phosphorus requirements for each paddock (maintenance & capital)
- Compare the cost of using different fertiliser products
- Assist in allocating fertiliser application with a pre-determined budget
- Maximise fertiliser efficiency

Contact Sue Briggs, DEPI on 02 6030 4510 to organise a phosphorus budgeting workshop for your area or download the Phosphorus Budgeting Tool from <a href="https://www.holbrooklandcare.org.au">www.holbrooklandcare.org.au</a>.

This note was developed by Sue Briggs, DEPI Rutherglen. For further information phone 02 6030 4510.

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