# FORAGE

## Indicative Soil Phosphorus report guide

## What is Indicative Soil Phosphorus?

The FORAGE Indicative Soil Phosphorus report provides the indicative soil phosphorus (P) concentration and the areas of different soil P categories for different Grazing Land Management (GLM) land types for selected Lot(s) on Plan. The information about soil P In the report can assist graziers to improve the efficiency of supplementation for livestock production, fertiliser application and legume development through improved awareness of soil P availability for their properties.

## Why is Soil Phosphorus important?

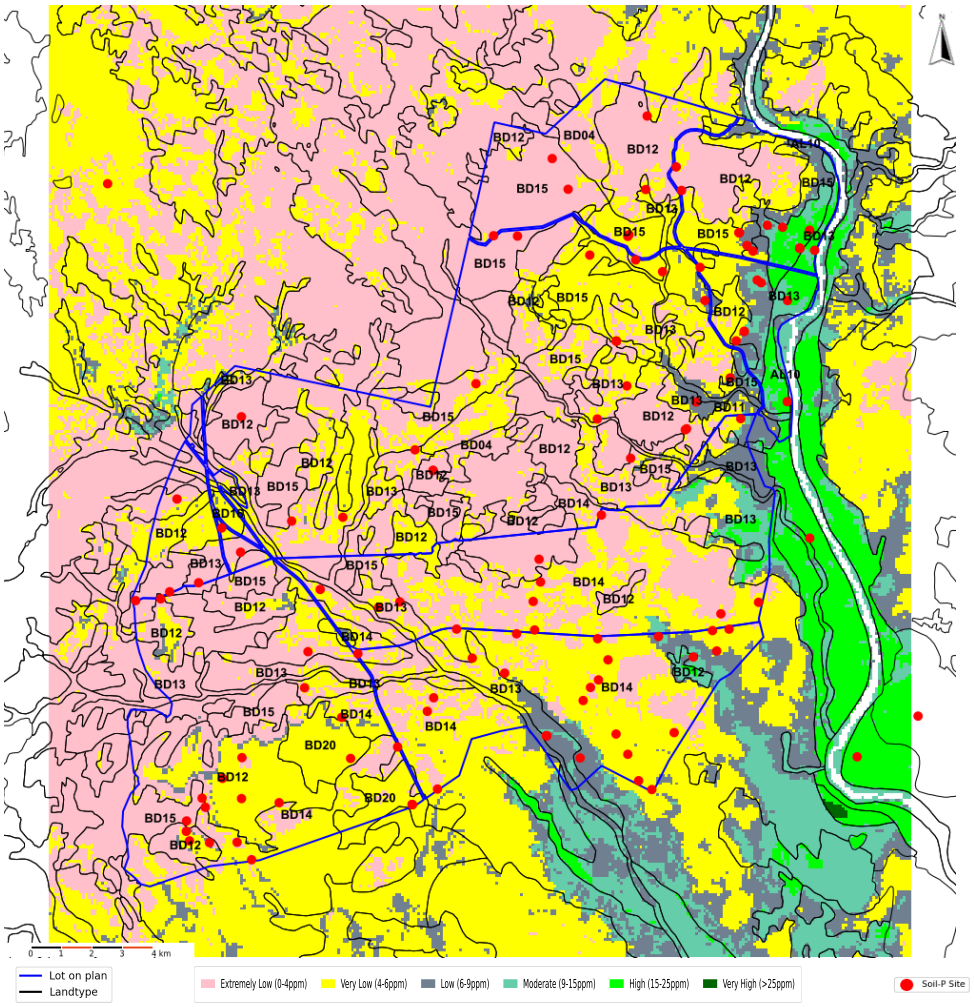
The status of soil P affects the P concentration in pastures which plays an essential role for conversion of grass to energy in livestock's body, growth and development of body tissues, and development of foetus and production of milk in pregnant and lactating cows. Extremely low or very low available P soils may result in low plant available P (especially in years when above average pasture growth has occurred) and hence P deficiency in cattle. Symptoms of P deficiency include bone chewing, which also increases the risk of cattle contracting botulism.

## What information will I find in the Indicative Soil Phosphorus report?

Key information in the report includes:

**A Soil P Map (see below)**

Soil P Map




- shows the soil P concentration
- estimated using digital soil mapping methods from site locations with bicarbonate extractable P (Colwell-P)
- within surface soils (0-10cm).
- red dots on the map show the locations where soil samples have been analysed.

**Note:** many properties may not have red dots due to no detailed property soil surveys.

Soil P categories are classified based on soil P concentrations (ppm - parts per million) and include:

- Extremely Low (0-4ppm)
- Very Low (4-6ppm)
- Low (6-9ppm)
- Moderate (9-15ppm)
- High (15-25ppm)
- Very High (>25ppm).

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For more information, go to www.longpaddock.qld.gov.au/forage

## Soil P categories for Land Types

- lists the areas and percentages of different soil P categories for different Grazing Land Management (GLM) land types for the selected Lot(s) on Plan (see example table below).

### Summary of Soil P for Land Types

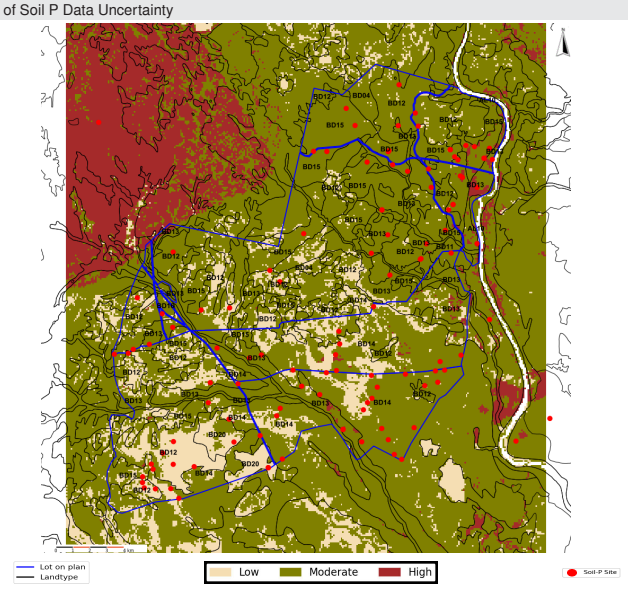
**This table shows the indicative areas (ha) and percentage of different soil P categories present for each GLM land type for the selected Lot(s) on Plan.**
**The categories are classified based on soil P concentrations and include: Extremely Low (0-4ppm); Very Low (4-6ppm); Low (6-9ppm); Moderate (9-15ppm); High (15-25ppm); and Very High (>25ppm).**

| Land type code and name | Area (ha) | Extremely Low (ha) (%) | Very Low (ha) (%) | Low (ha) (%) | Moderate (ha) (%) | High (ha) (%) | Very High (ha) (%) |
|---|---|---|---|---|---|---|---|
| BD12 - Lancewood - bendee - rosewood BD | 10224 | 6843 (66.9) | 3042 (29.8) | 280 (2.7) | 50 (<1) | 9 (<1) | <1 (<1) |
| BD14 - Narrow-leaved ironbark on deeper soils | 8518 | 3424 (40.2) | 4619 (54.2) | 349 (4.1) | 120 (1.4) | 6 (<1) | <1 (<1) |
| BD15 - Narrow-leaved ironbark on shallower so | 7958 | 4717 (59.3) | 2579 (32.4) | 504 (6.3) | 155 (1.9) | 4 (<1) | <1 (<1) |
| BD13 - Loamy alluvials | 7240 | 3198 (44.2) | 2185 (30.2) | 737 (10.2) | 565 (7.8) | 556 (7.7) | <1 (<1) |
| BD04 - Box and napunyah | 793 | 430 (54.2) | 350 (44.1) | 13 (1.6) | <1 (<1) | <1 (<1) | <1 (<1) |
| BD20 - Yellowjacket with other eucalypts | 790 | 34 (4.3) | 737 (93.3) | 19 (2.4) | <1 (<1) | <1 (<1) | <1 (<1) |
| BD16 - Ranges | 375 | 74 (19.7) | 298 (79.4) | 3 (<1) | <1 (<1) | <1 (<1) | <1 (<1) |
| BD11 - Goldfields country - red soils | 198 | 26 (13.1) | 89 (44.9) | 69 (34.7) | 15 (7.3) | <1 (<1) | <1 (<1) |
| AL10 - Wetland | 81 | <1 (<1) | 3 (3.2) | 27 (33.7) | 22 (27.4) | 29 (35.8) | <1 (<1) |
| AL09 - Water | 4 | <1 (<1) | <1 (<1) | <1 (<1) | <1 (<1) | <1 (<1) | <1 (<1) |
| BD05 - Box country BD | 2 | <1 (<1) | <1 (<1) | 2 (100.0) | <1 (<1) | <1 (<1) | <1 (<1) |
| Total | 36182 | 18746 (51.8) | 13901 (38.4) | 2003 (5.5) | 925 (2.6) | 604 (1.7) | 0 (0) |

## Map of Soil P Data Uncertainty (see right)

- Map of Soil P Data 'Relative' Uncertainty (see right)
- indicates the 'relative' uncertainty of soil P data in the Soil P Map
- 3 categories (low, moderate, high,).
- high uncertainty is likely to be due to a low number of soil sample measurements and high natural variability of soil P.
- red dots on the map show the locations where soil samples have been analysed (if any).

Map of Soil P Data Uncertainty




## How do I get a Indicative Soil Phosphorus report?

- Go to www.longpaddock.qld.gov.au/forage/
- select **Indicative Soil Phosphorus** from the drop-down list - include other reports if desired select
- your property using one of these approaches:

*1. Provide the Lot(s) on Plan by typing in the Lot(s) on Plan in the space under "Enter lot(s) on plan" (e.g. 3MZ594) and select from list. Select 'add' and continue to select if required.*

*OR*

*2. Use the geolocation tool or the address bar to add the property name, road address, town or just zoom in on the map to find your Lot(s) on Plan and click to select (one or more).*

- a PDF report will be emailed to the email address provided
- completing requests can be a few hours, depending on the number of requests running on the system
- short awareness videos are available on how you might use FORAGE for making grazing land management decisions at https://www.longpaddock.qld.gov.au/forage/videos/.

## Contacts

If you have any questions or comments, please email The Long Paddock team at longpaddock@qld.gov.au.
Grazing Land Systems, Department of Environment and Science.

For more information, go to www.longpaddock.qld.gov.au/forage

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