



CROP
Avocado



GROWER
Maskell Growers



FARM
Maskell Growers



FIELD
Field 4



SAMPLING DATES
10/08/2024

Field Average



TraceComplete Averages: **pH:** 5.9 | **Ca:** 9161 ppm | **Fe:** 112.4 ppm

Guidance

Build Suitability:

The soil has a high saturation level, and any added phosphorus may be at risk of runoff or leaching.

Chelating Agent:

A phosphorus chelating agent should be considered with any additional phosphorus fertilizer to keep phosphorus adhered to the soil and reduce the risk of runoff or leaching, given the high level of saturation.

P Solubilization:

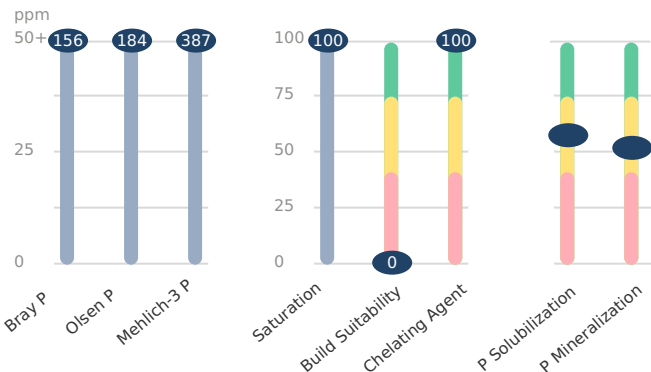
The soil may benefit from a biological product or management practice to enhance its capacity to biologically solubilize fixed phosphorus.

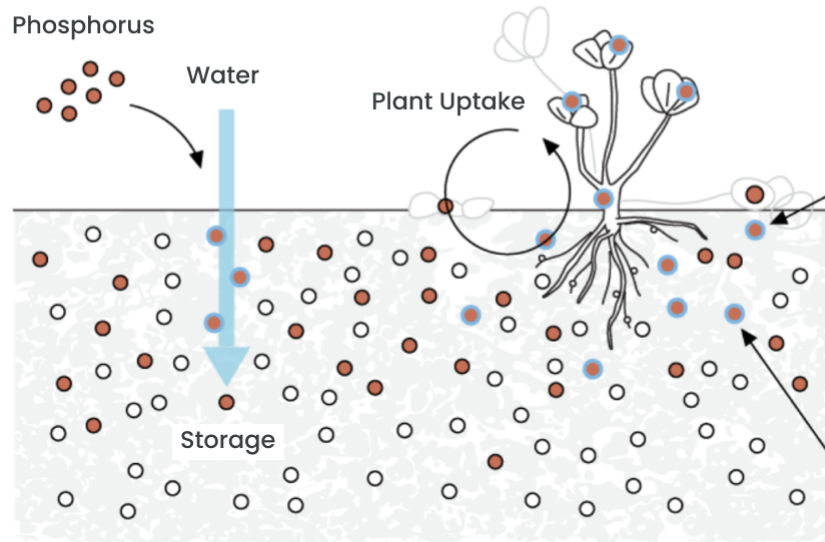
P Mineralization:

The soil may benefit from a biological product or management practice to enhance its biological capacity to mineralize organically bound phosphorus.

Low Medium High Measured Value

zone 4

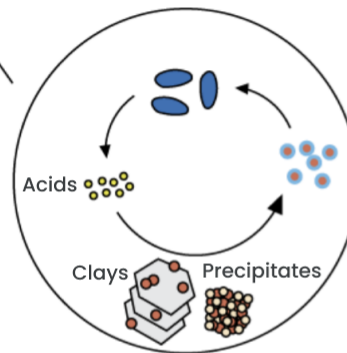
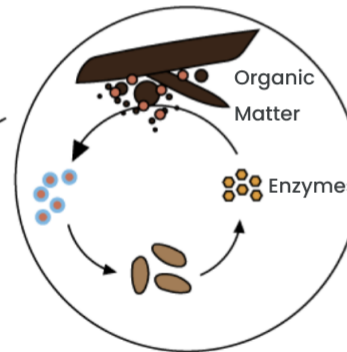




- Soluble P
- P bound to clays, precipitates
- P binding capacity

P mineralization potential

Release of phosphorus from organic matter



P solubilization potential

Release of phosphorus from mineral associations

Phosphorus Saturation

Every soil is different in its capacity to store P, depending on the amount of Calcium and Aluminum in the soil.

We measure the degree to which soil phosphorus absorption sites are filled.

Soil microbes make bound P available and release P from mineral and organic matter.

We quantify the organisms in the soil that have the potential to liberate P and make it plant available.

Phosphorus Biology