



Improving Soil Health with Nitrogen Fixing Crops

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Soil Health: How to improve it?



Compost



Compost Tea



Organic Fertilizer



Cover Crop



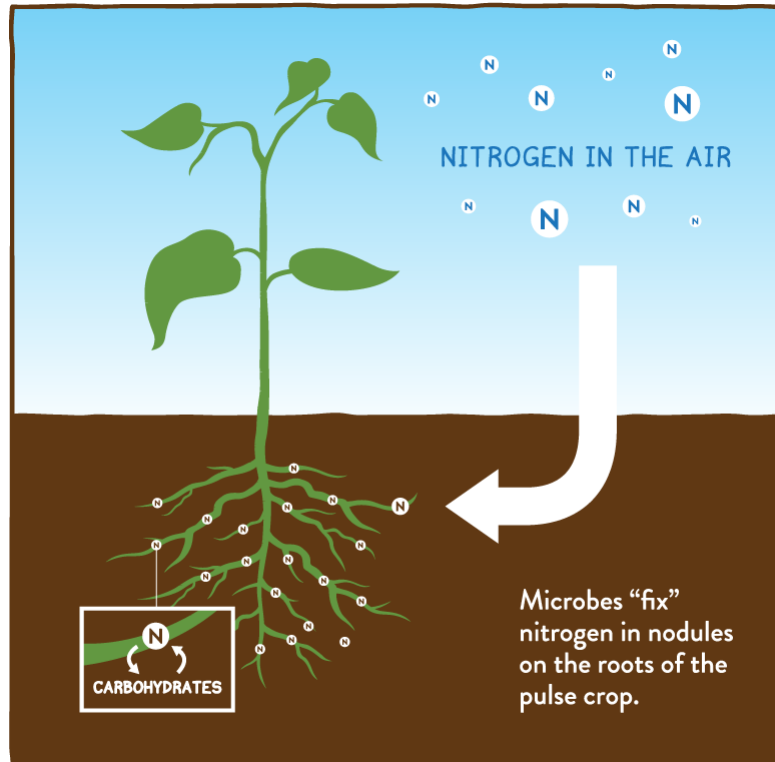
Biochar

Soil Inoculants:



**Soil Inoculants brands/types.
Cowpea & Sunn Hemp do not need inoculant
in Hawaii.**

Legume's Nitrogen Fixing Capability:



76% of the Earth's atmospheric air is nitrogen.

Some legumes fix more than what's needed of nitrogen for one growth cycle.

Grain legume	N-fixing ability (kg ha ⁻¹)
Soybean (<i>Glycine max</i>)	71–108
Pea (<i>Pisum sativum</i>)	90–128
Pigeon pea (<i>Cajanus cajan</i>)	120–170
Lentil (<i>Lens culinaris</i>)	8–14
Rice bean (<i>Vigna umbellata</i>)	13–30
Cowpea (<i>Vigna unguiculata</i>)	14–35
Faba bean (<i>Vicia faba</i>)	23–79
Common bean (<i>Phaseolus vulgaris</i>)	20–60
Groundnut (<i>Arachis hypogaea</i>)	150–200
Chickpea (<i>Cicer arietinum</i>)	64–103
Mung bean (<i>Vigna radiata</i>)	19–54
Black gram (<i>Vigna mungo</i>)	16–79

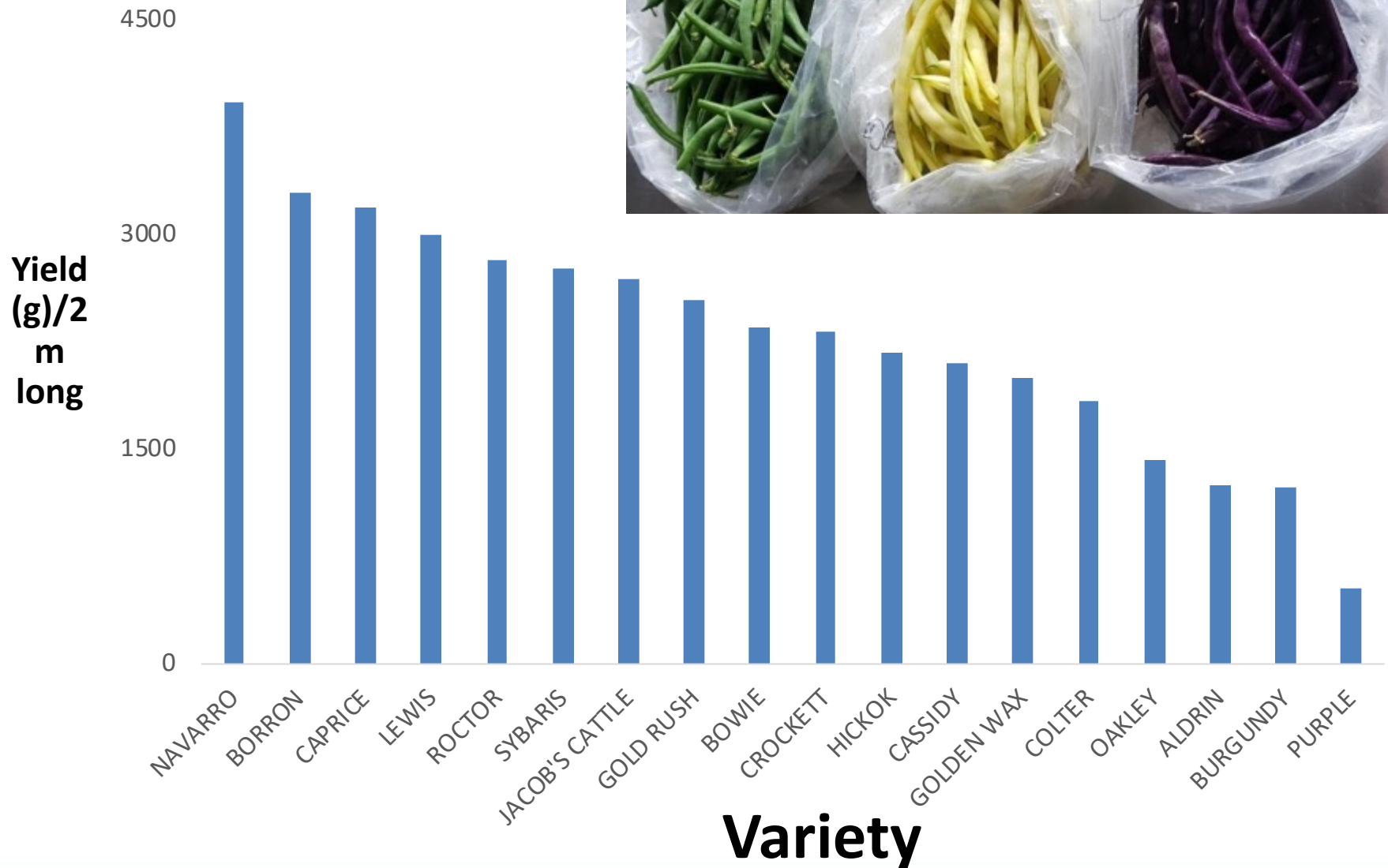
Intercropping



Treated Seeds

NOTE: Do not treat the seeds with inoculants & fungicides at the same time.

Bush Beans:



Dry Beans:



Thanks for listening

..... Questions?

