

# Integrated and Scalable Nematode-Soil Health Management for Smallholder Potato Farming Systems

Brent Sipes, Catherine Chan, Haddish Melakeberhan, Amilcar Sanchez,  
and Aníbal Sacbajá



HORTICULTURE  
INNOVATION LAB

UC DAVIS  
UNIVERSITY OF CALIFORNIA



UNIVERSITY  
of HAWAII  
MĀNOA

MICHIGAN STATE  
UNIVERSITY







# Potato Cyst Nematode

Too many cyst  
nematodes  
=  
Fewer and  
smaller potatoes



# Two Aspects to the Project

1. Field experiments to manage potato cyst nematodes and improve soil health
2. Mental modeling of the farming community to improve our extension activities

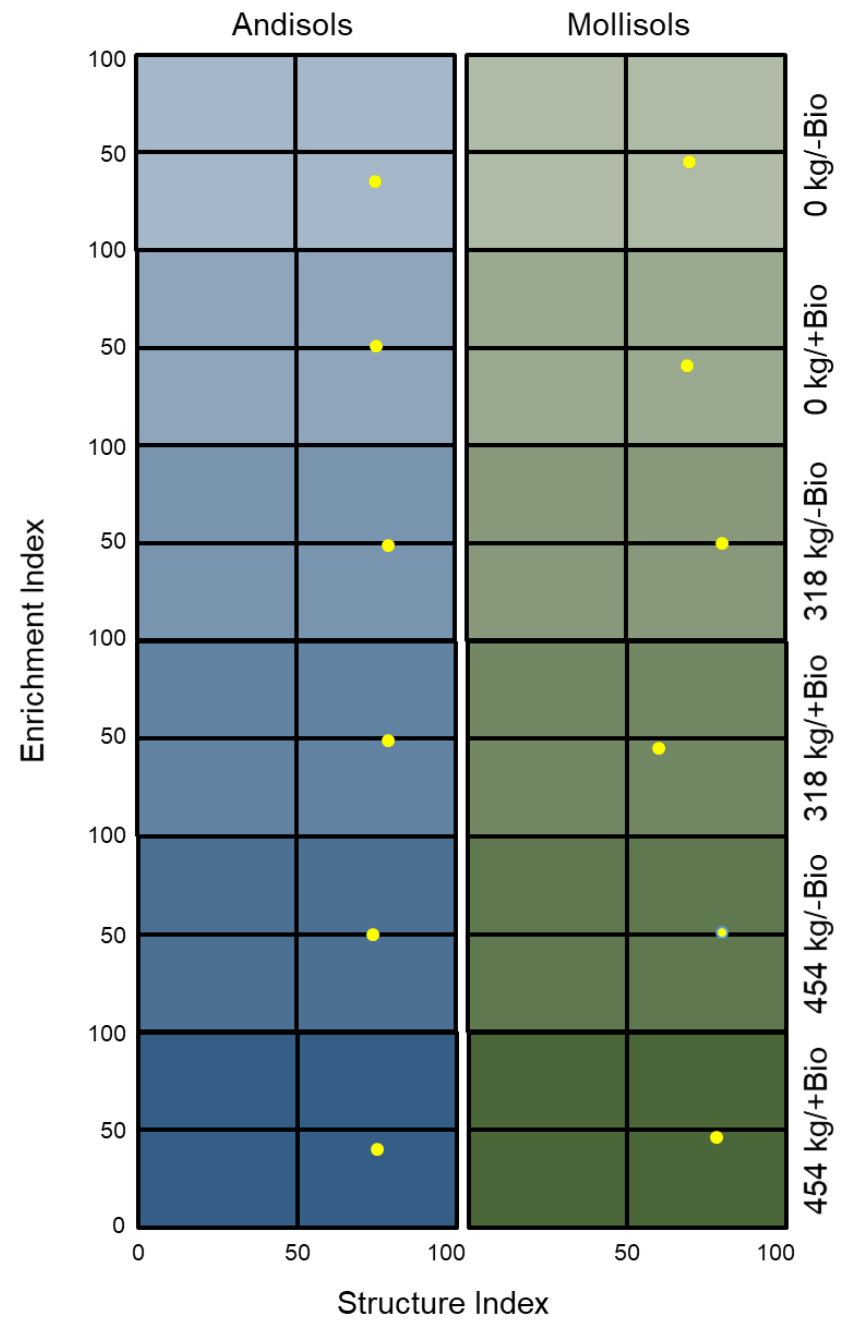


# Soil Health

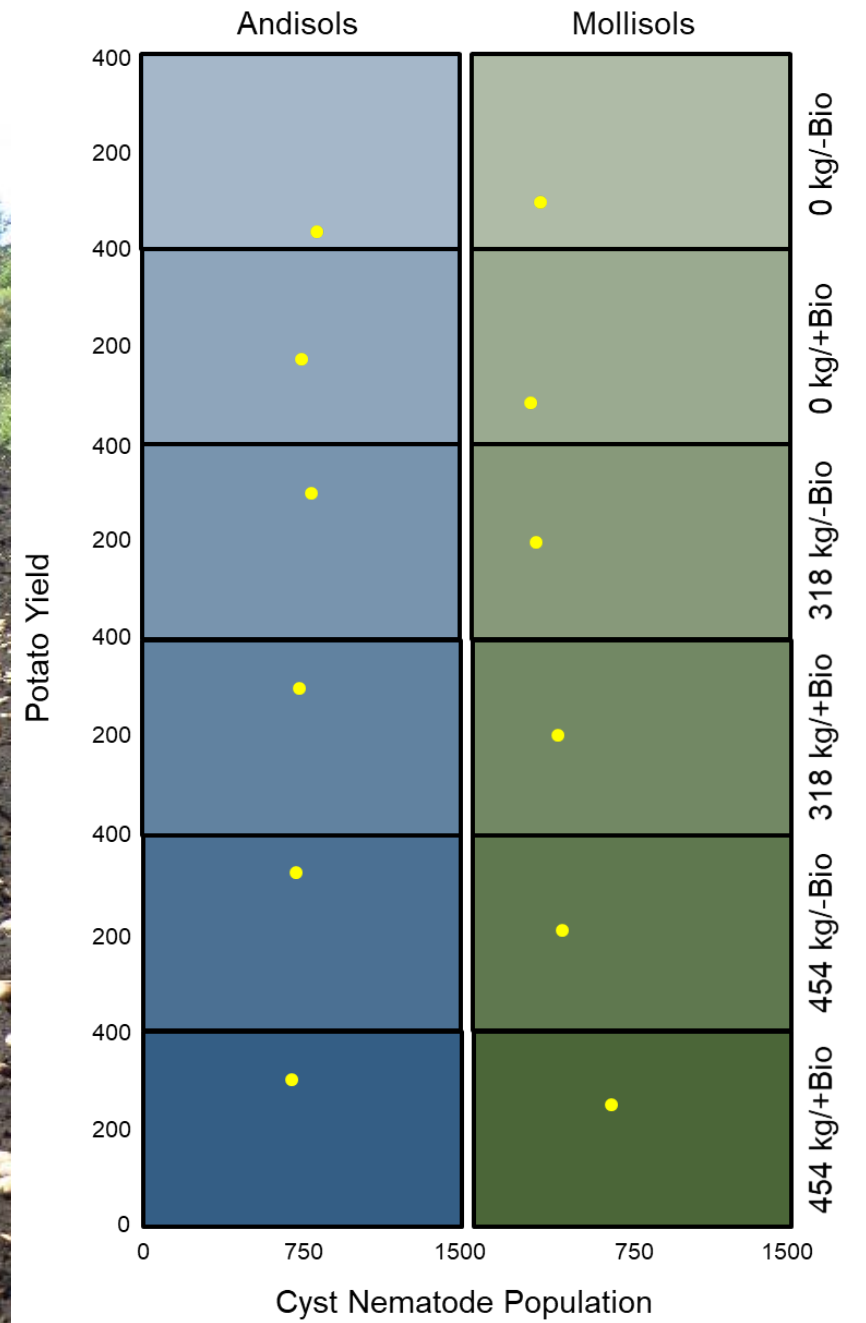
1. Incorporation of organic matter –  
composted chicken litter.

2. Application of biological control  
organisms.









# Cognitive Mapping

