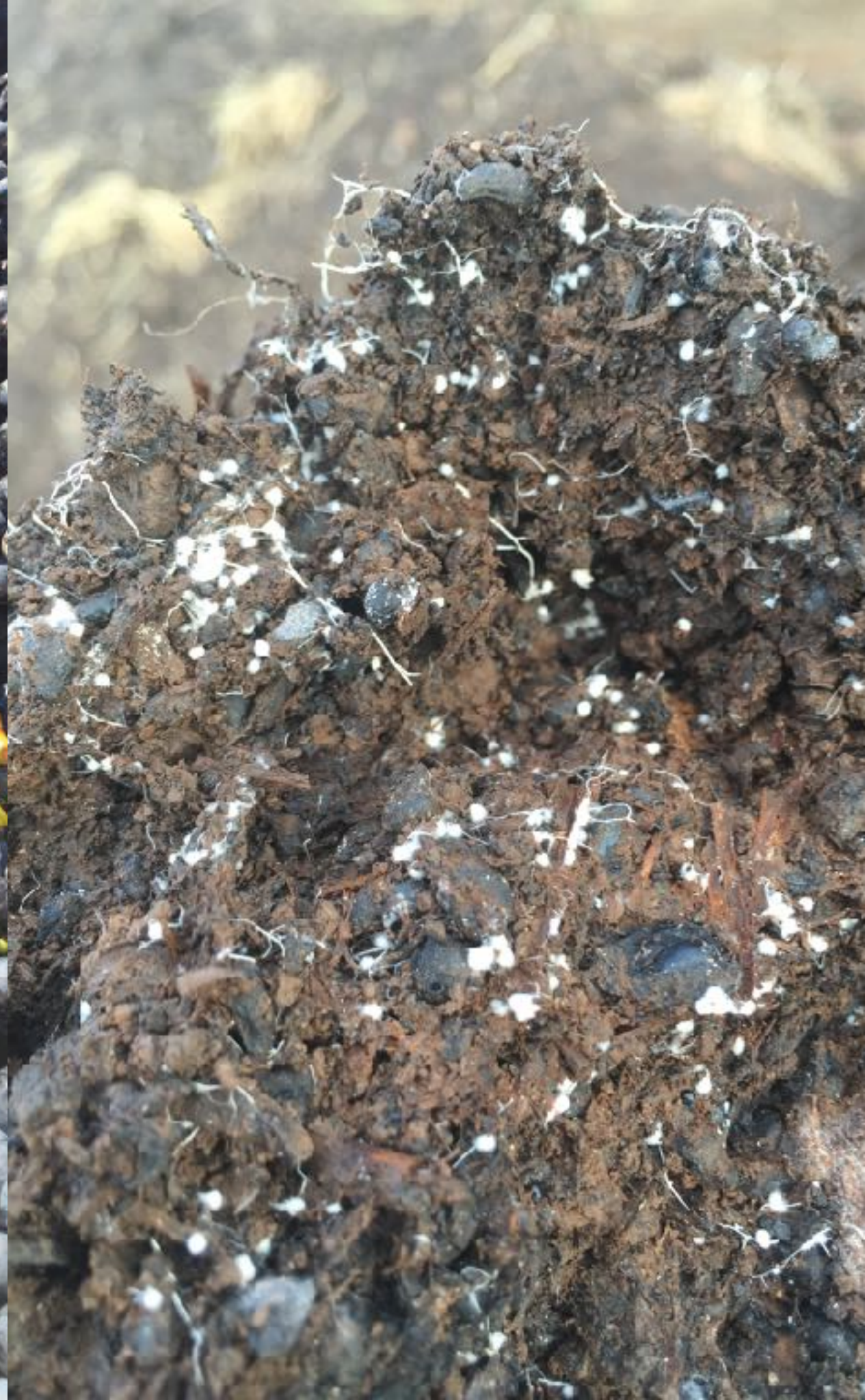


Biodynamics

Biodynamic Grape Growing

Washington Tilth November 12th 2017



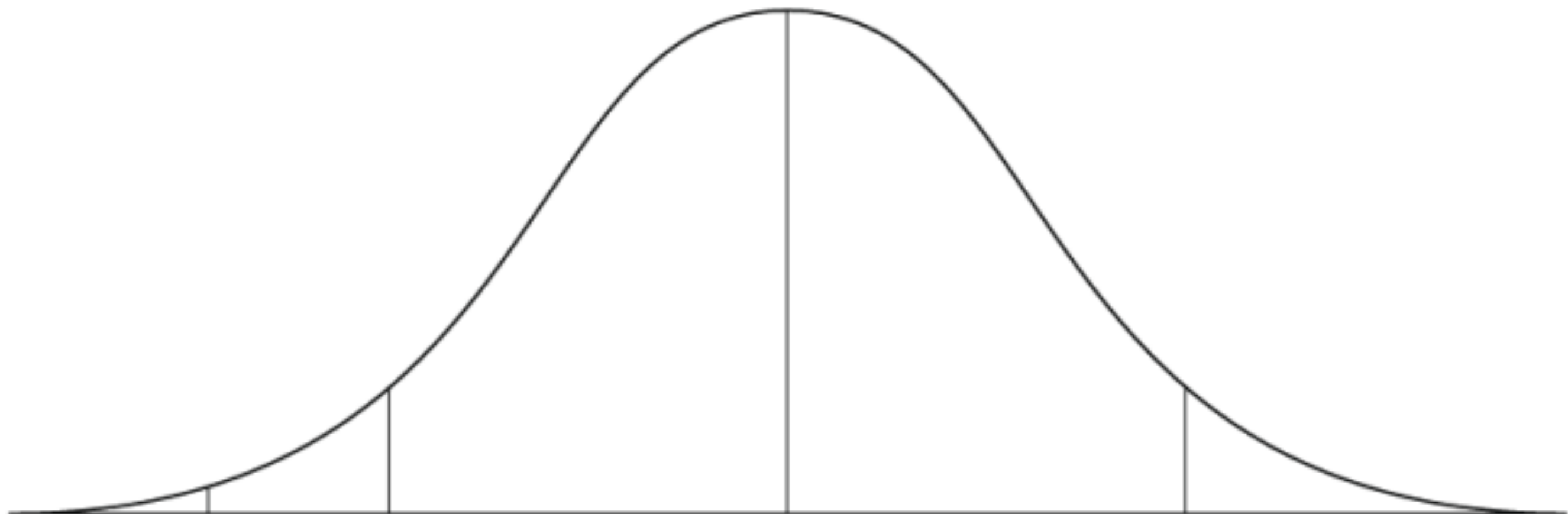


Courtesy of Benziger Winery

Diffusion of Innovations

The Technology Adoption Curve

As captured by Everett Rogers in his book Diffusion of Innovations, people tend to adopt new technologies at varying rates. Their relative speed of adoption can be plotted as a normal distribution, with the primary differentiator being individuals' psychological disposition to new ideas.



Innovators

(2.5%) are risk takers who have the resources and desire to try new things, even if they fail.

Early Adopters

(13.5%) are selective about which technologies they start using. They are considered the “one to check in with” for new information and reduce others’ uncertainty about a new technology by adopting it.

Early Majority

(34%) take their time before adopting a new idea. They are willing to embrace a new technology as long as they understand how it fits with their lives.

Late Majority

(34%) adopt in reaction to peer pressure, emerging norms, or economic necessity. Most of the uncertainty around an idea must be resolved before they adopt.

Laggards

(16%) are traditional and make decisions based on past experience. They are often economically unable to take risks on new ideas.







- Frey Vineyards joined CCOF (California Certified Organic Farmers) in 1980.
- By 2008 they sourced fruit from 30 different growers, many they helped to Organically certify their property.
- Out of the 1000 acres on the estate, only 100 are planted for a 90% Biodiversity to production ratio

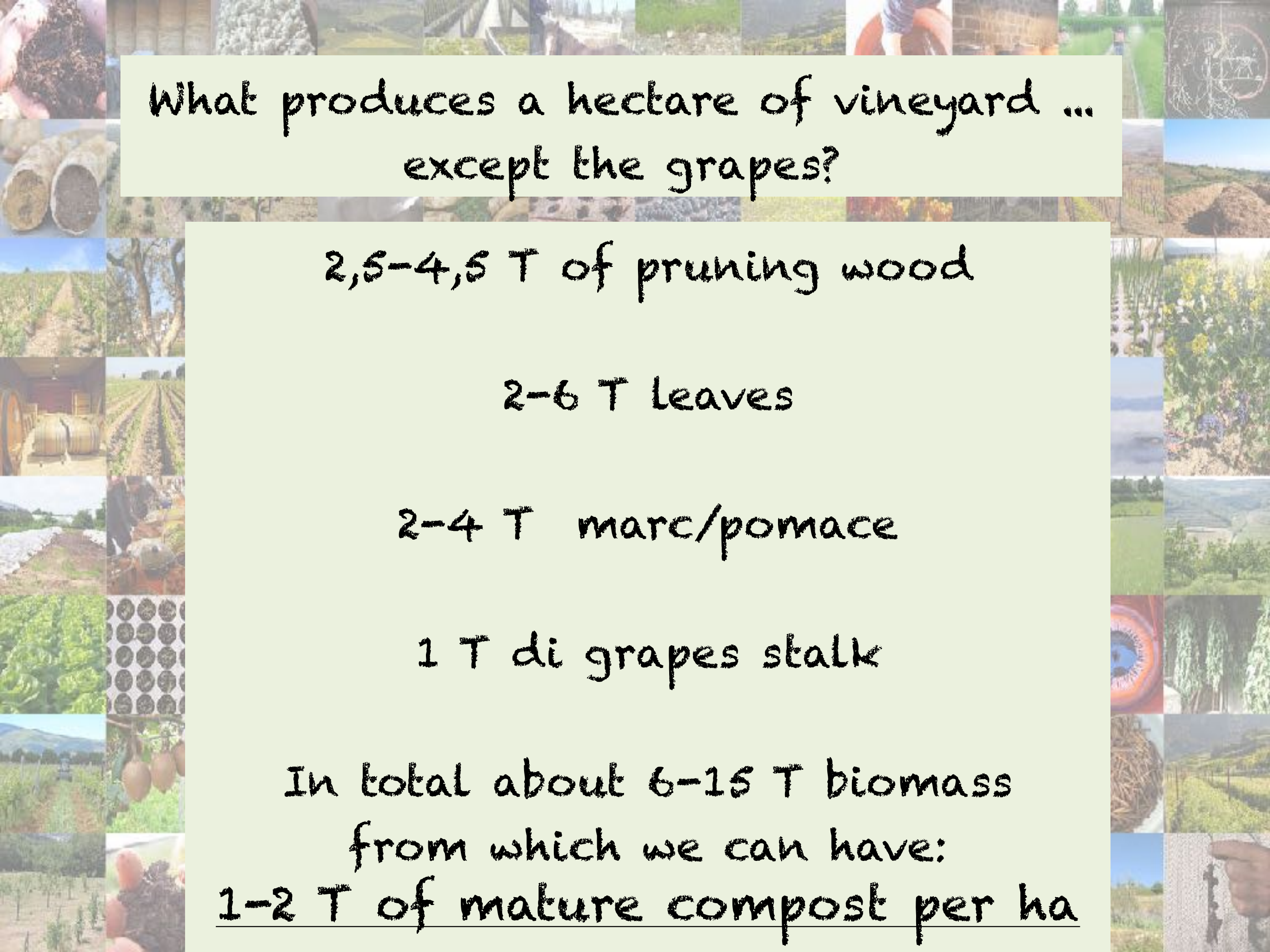












What produces a hectare of vineyard ...
except the grapes?

2,5-4,5 T of pruning wood

2-6 T leaves

2-4 T marc/pomace

1 T di grapes stalk

In total about 6-15 T biomass
from which we can have:

1-2 T of mature compost per ha



FORADORI

PIEMONTE
AT ROLL ANOMI
2012



FORADORI



FORADORI

Vigneto DOCG

Biodynamic

Conventional

Courtesy of Adriano Zago

































Temperence Hill - Oregon

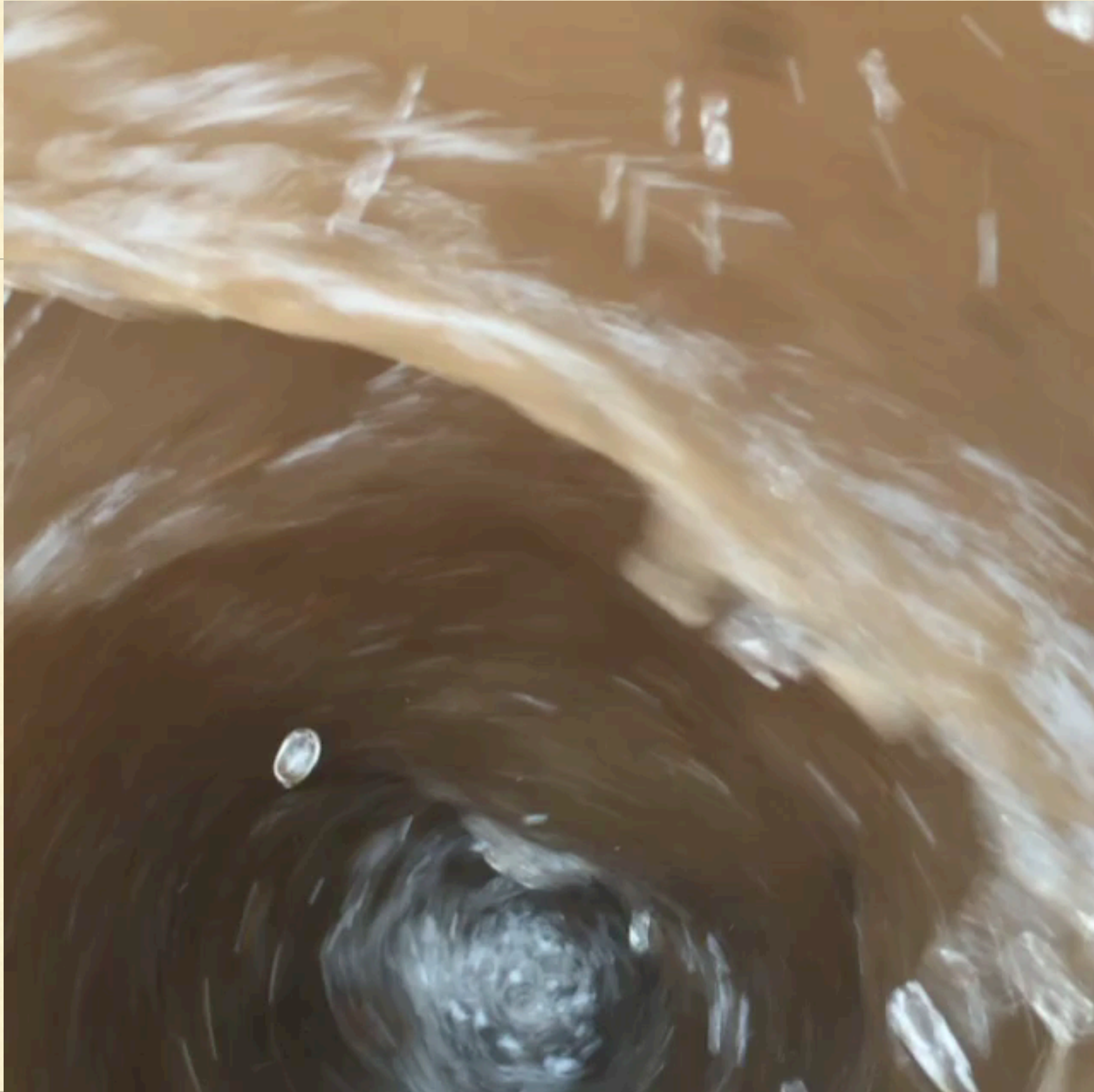
fix anchor - Bk 3 Row #1

501

501 - Aug 11 - whites
Aug 29 -
Sept 8 - optimal red
Sept 8 - optimal white
Sept 11
Sept 26
Oct 4
Oct 9

500/tea

Sept 15
Sept 24-25
Oct 11-13
Oct 20-22
Nov 7-9
Nov 17-18













**Distribuzione Preparato
biodinamico 500**



Biodynamic Equisetum Preparation (508)

Biodynamic Equisetum Preparation (508)



The fresh 508 tea is the form suggested for use as a foliar spray to control fungus.

The fermented 508 tea is mostly suggested for use as a soil spray to prevent fungus. Either form has both preventative and prophylactic properties.



501 Distribution





Viticulture
conventional

Viticulture
biodynamic

Courtesy of Adriano Zago

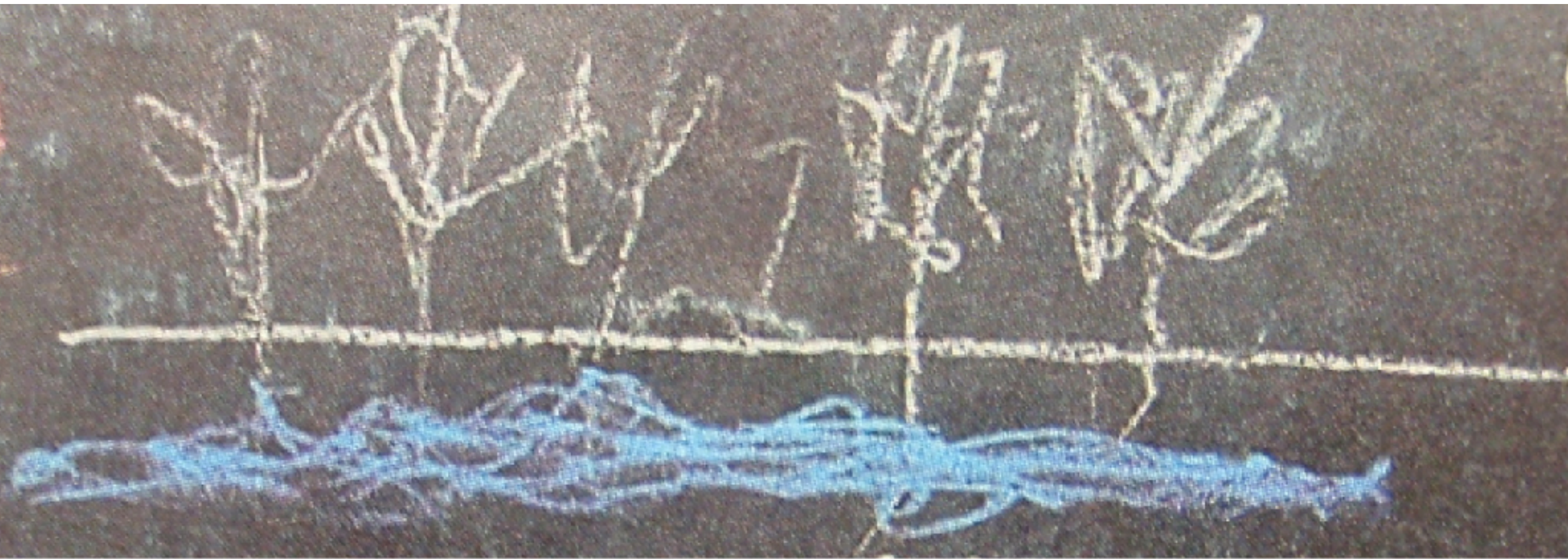
Vigneto DOCG Prosecco

YAN = YEAST ASSIMILABLE NITROGEN

Low must YAN leads to low yeast populations and poor fermentation vigor, increased risk of sluggish/stuck/slow fermentations, increased production of undesirable thiols (e.g. hydrogen sulfide) and higher alcohols, and low production of esters and long chain volatile fatty acids.

High must YAN leads to increased biomass and higher maximum heat output due to greater fermentation vigor, and increased formation of ethyl acetate, acetic acid and volatile acidity. Increased concentrations of haze-causing proteins, urea and ethyl carbamate and biogenic amines are also associated with high YAN musts. The risk of microbial instability, potential taint from Botrytis-infected fruit and possibly atypical aging character is also increased.

Intermediate must YAN favors the best balance between desirable and undesirable chemical and sensory wine attributes. (3)



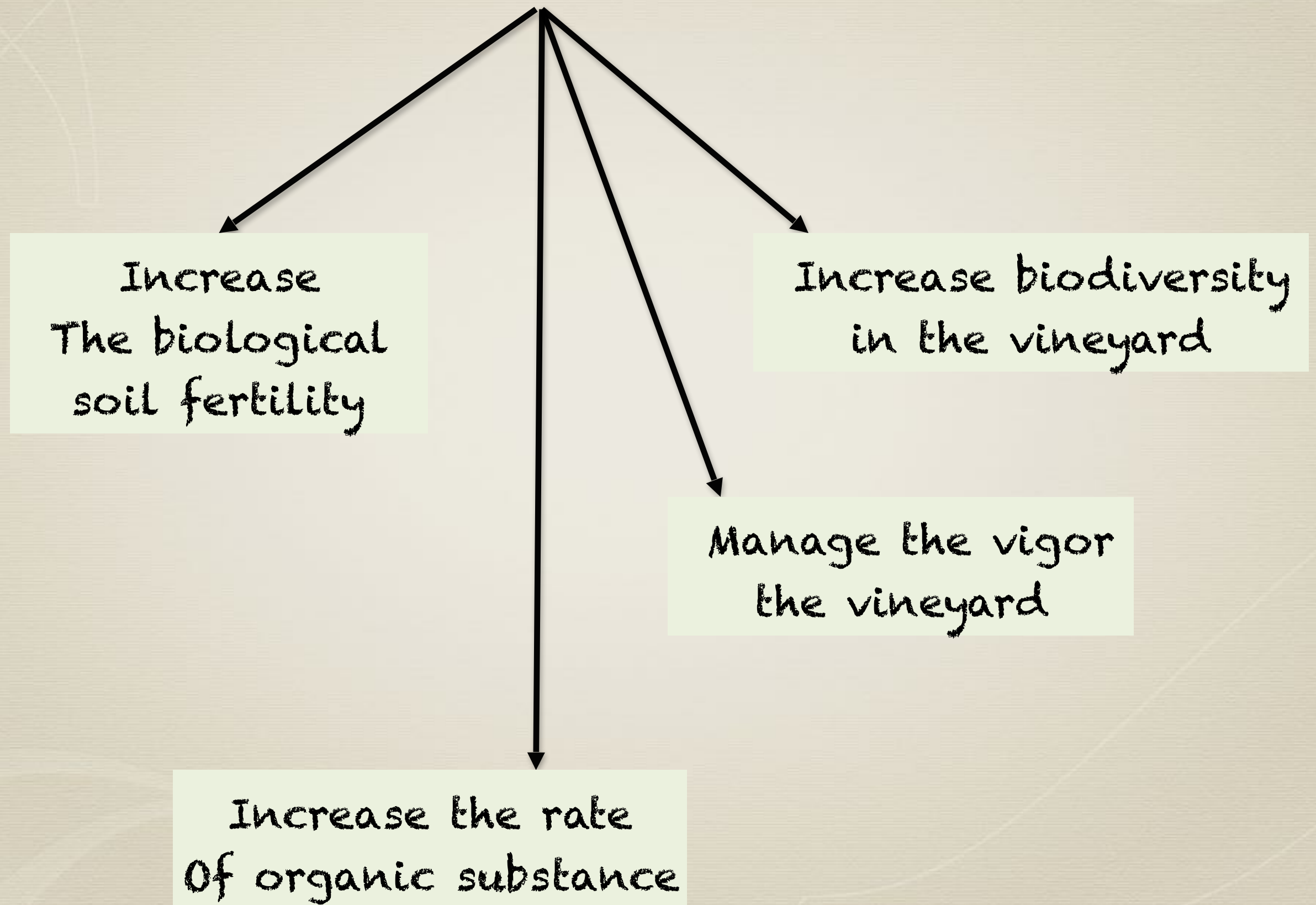
Steiner's design during the Course for farmers, & conferences

The plant communicate with each other through roots and radical ambience.

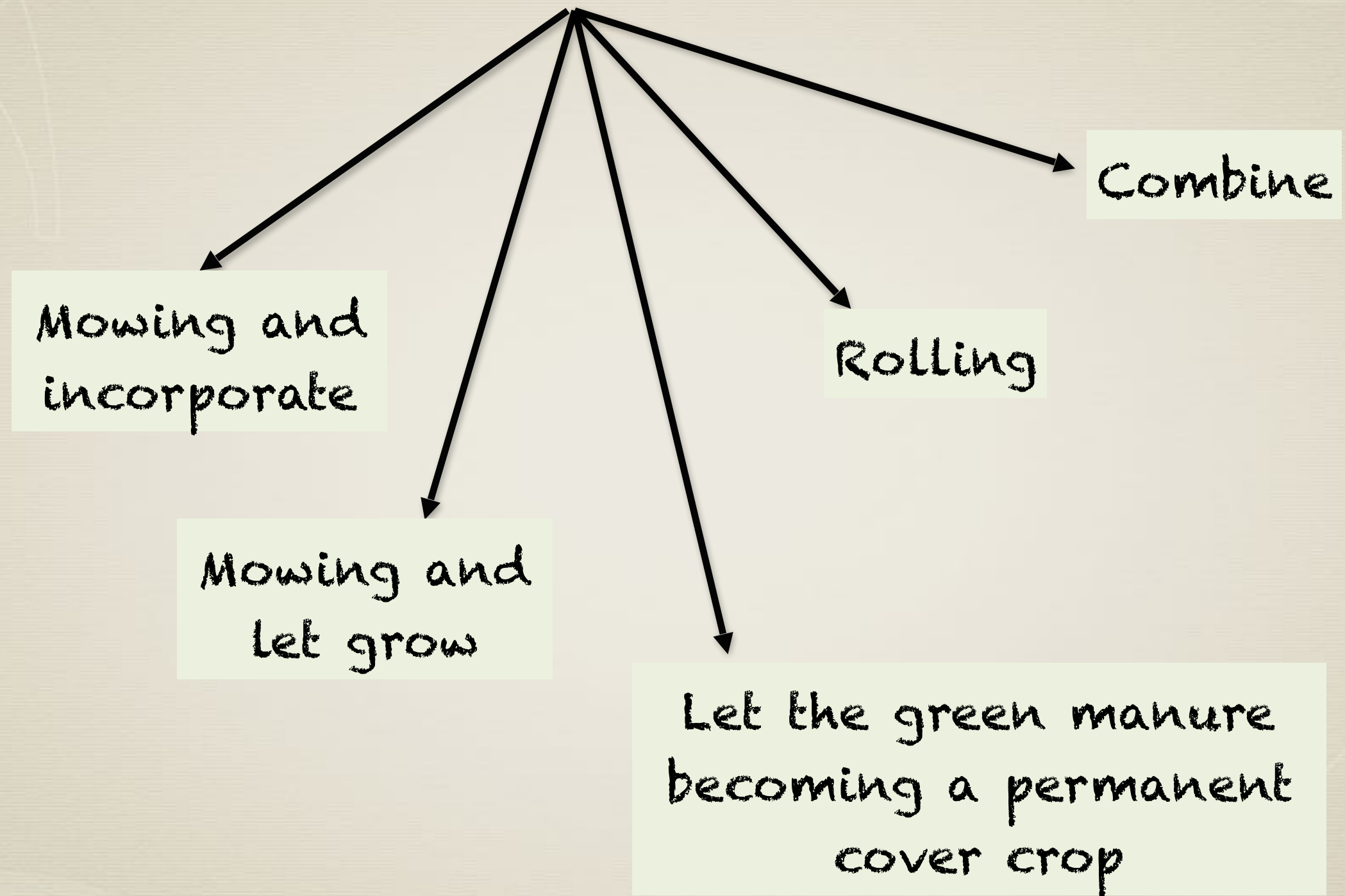
The diversity and complexity of the system lead to balance, stability, durability.

Also for this reason a large biodiversity in the vineyard is important for the vine's roots.

Why do I want to grow green manure in my vineyard?



How can I manage my green manure?



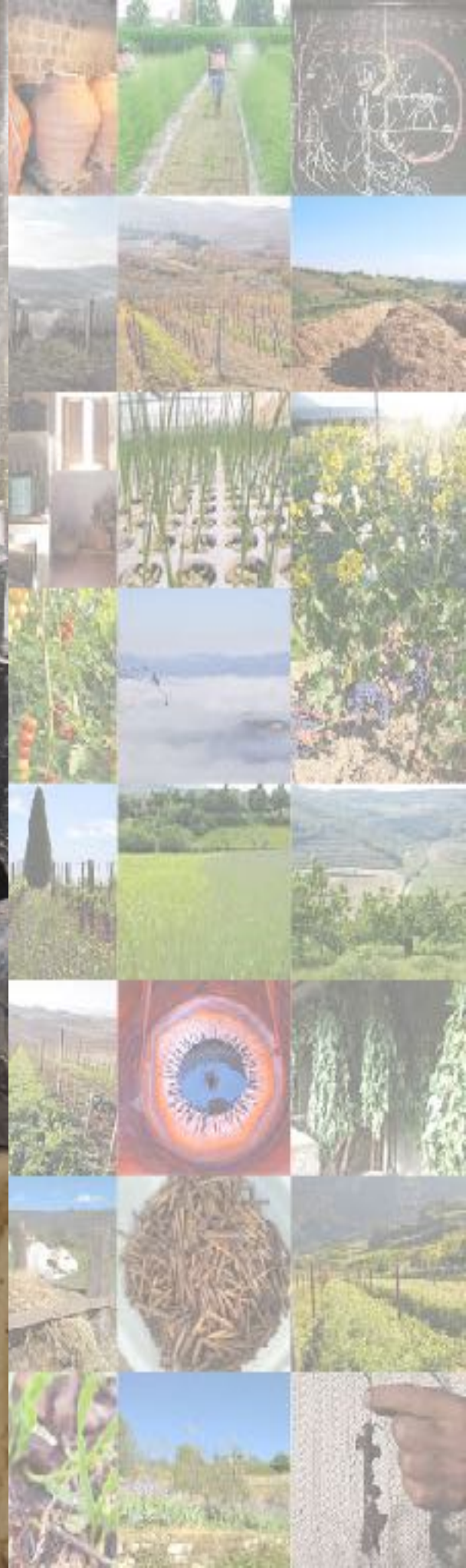




VENICA&VENICA















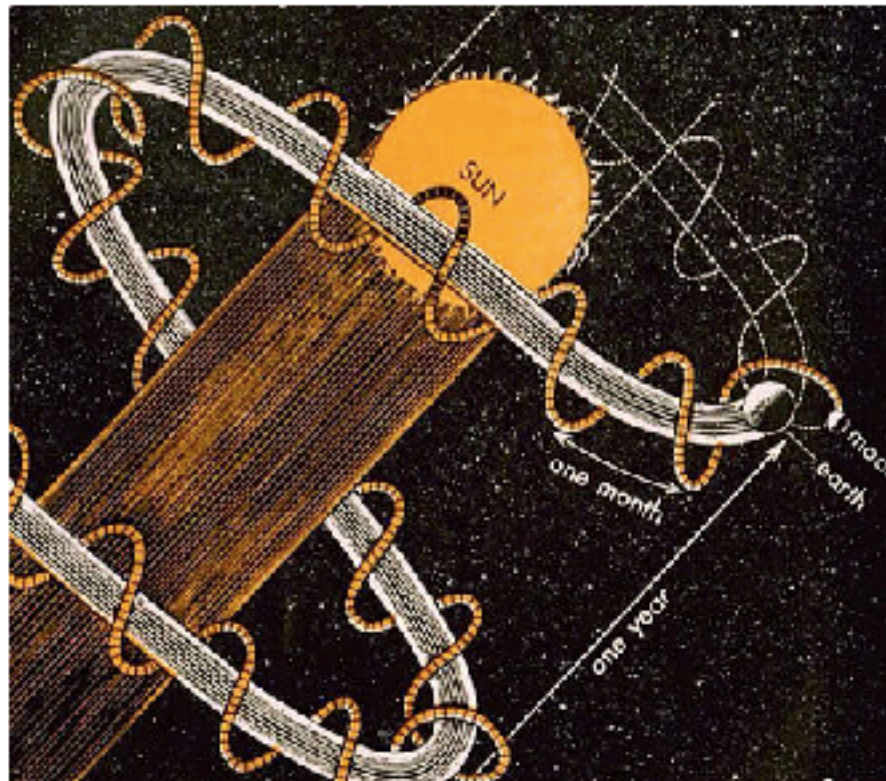


VENICA&VENICA





Unconventional Farm Supply and Services LLC.

[HOME](#)[SERVICES](#)[SUPPLIES](#)[LINKS](#)[DOCS](#)[CONTACT](#)[Washington Tilth Links](#)

Unconventional Farm supply and services.

Specializing in supplies and services for Organic
and Biodynamic growers and farmers in
the Willamette Valley.

[VISIT US](#)

claywesson@gmail.com