

## Considerations for Establishing a Truffle Orchard

### Climate

- a) Temperatures, average highs and lows
- b) Precipitation and monthly distribution, snow cover

### Truffle species

- a) Primary, ~~*Tuber magnatum*~~, *T. melanosporum*, *T. borchii*, *T. aestivum*
- b) Secondary, *T. lyonii*\*, *T. canaliculatum*, *T. macrosporum*

### Land assessment

- a) Drainage
- b) Soil type
- c) Slope
- d) Irrigation source
- e) Prior use of land

### Soil preparation

- a) Soil analysis
- b) pH, pH buffer, calcitic or dolomitic lime?
- c) organic matter, macro & micronutrients
- d) Subsoiling

### Host trees

- a) Ectomycorrhizal?
  - 1) *Fagaceae* – *Quercus* (oaks), *Castanea* (chestnuts), *Fagus* (beech), etc.
  - 2) *Betulaceae* – *Corylus* (hazelnuts), *Carpinus* (hornbeams), etc.
  - 3) *Pinaceae* – *Pinus* (pines)
- b) Cold/heat tolerance
- c) Disease/pest resistance
- d) 'Proven' producer?
- e) Growth rate and habit
- f) Orchard biodiversity