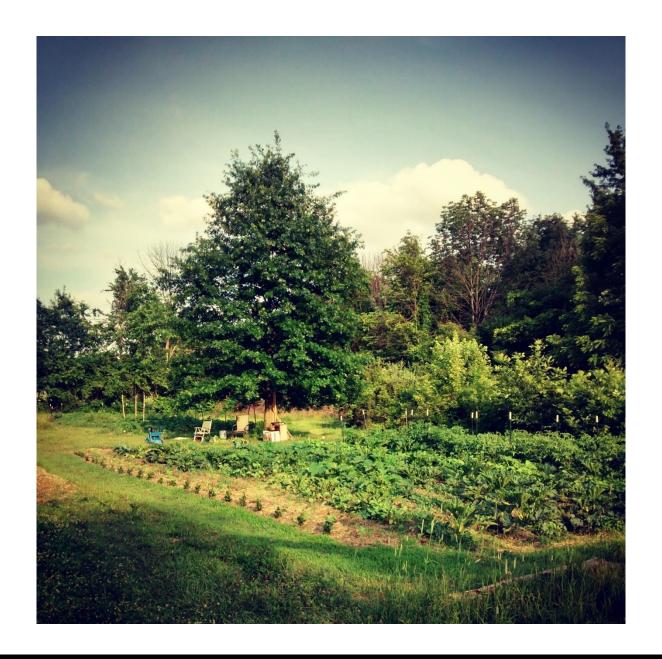
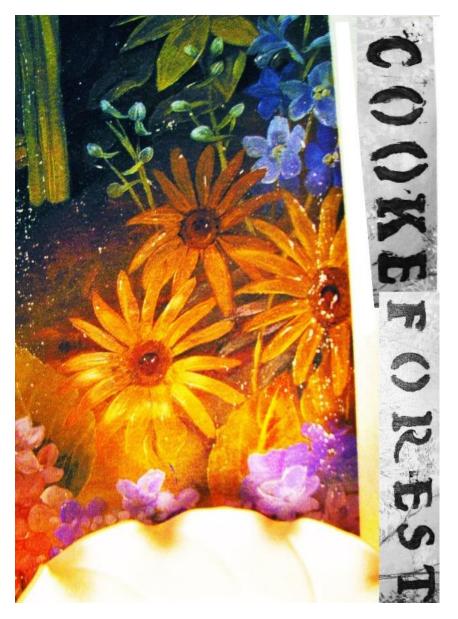
# "Adaptive strategies: Suburban lawns into agroecosystems in the American Midwest"

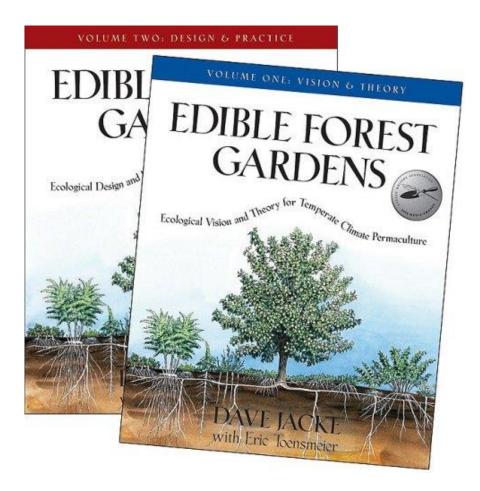
Christopher Burney Advisors 15<sup>th</sup> North American Agroforestry Conference Dr. Shibu Jose Blacksburg, VA Dr. Michael Gold





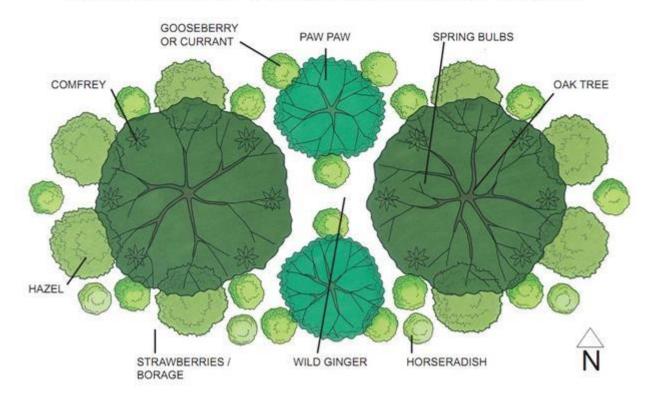


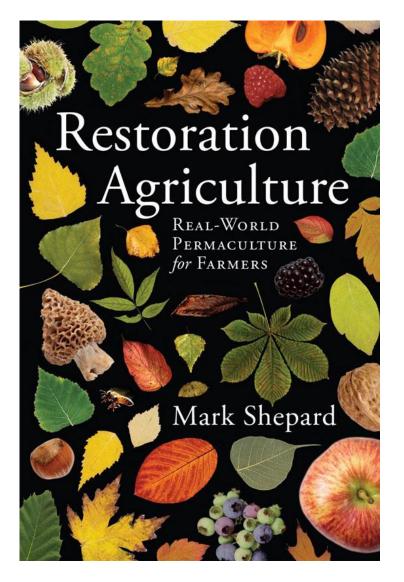
#### Permaculture and Agroforestry Frameworks



#### OAK GUILD

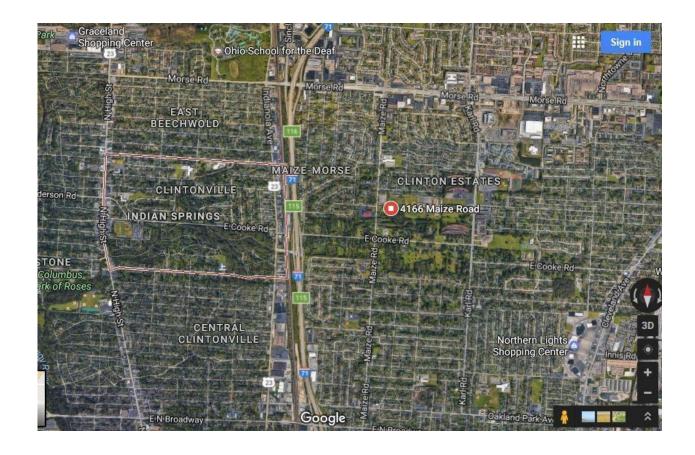
DIAMETER COULD BE FROM 50' - 400' DEPENDING UPON SPECIES AND AGE OF THE OAK TREES.



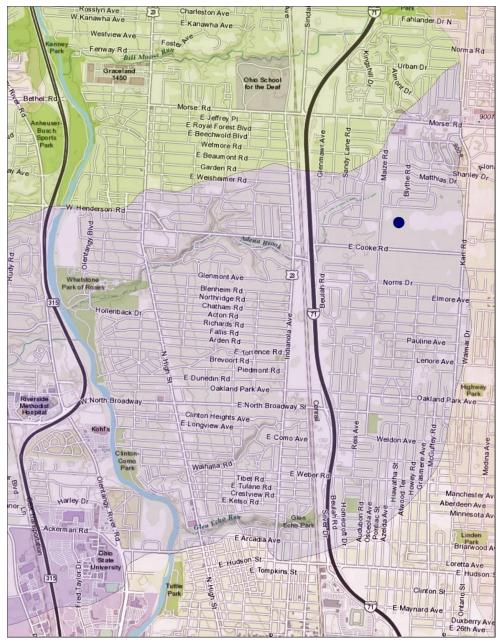


## **Applied Agroforestry**





City Density and Watershed Boundary



#### Farm Site



#### Ground Cover Establishment

- Comfrey (Symphytum officinale)
- Feverfew (*Tanacetum parthenium*)
- Sage (Salvia officinalis)
- Mugwort (*Artemisia vulgaris*)
- Hops
- Valerian (Valeriana officinalis)
- Mentha spp.
- Balms

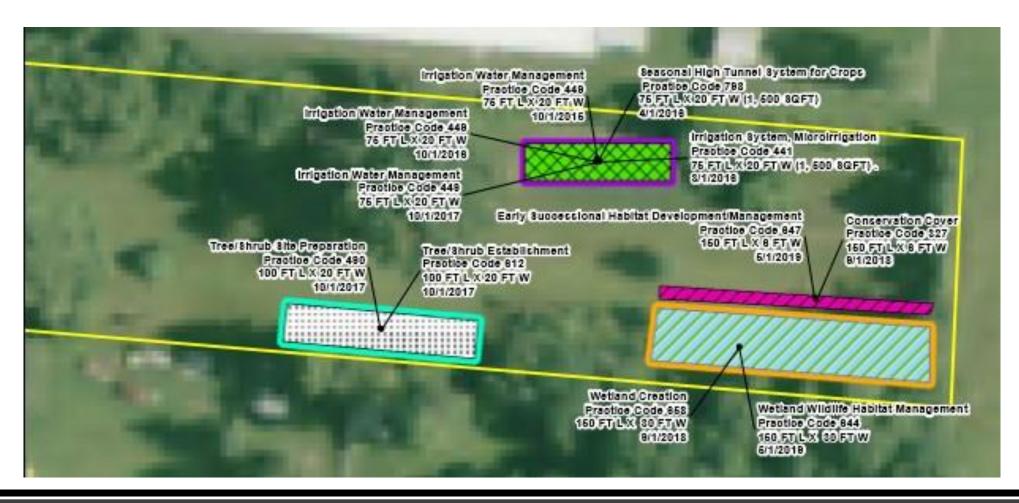


Prunella vulgaris

#### Production Bed Layout



### **USDA** Funding





# Agroforestry Cropping Returns

| Name           | Average<br>Production | Price          | Expected Yearly Return After Establishmen t |
|----------------|-----------------------|----------------|---|
| Medicinal and  | 100 lbs. fresh        | \$8-10/oz.     | \$2560 -                                    |
| Tea Herbs      | plant material        | Dried          | \$3200                                      |
|                | =                     |                |   |
|                | 20 lbs. dried         |                |   |
| Elder Berry    | 3-5 lbs. per<br>plant | \$21/lb Fresh  | \$1890 –<br>\$3150                          |
| Elder Flower   | n/a                   | \$60/lb Dried  | n/a   |
|                |                       | \$36/lb Fresh  |   |
| Honeyberry     | 5-8 lbs. per<br>plant | \$10/lb. Fresh | \$2000 -<br>\$3200                          |
| Black Currants | 10 lbs. per<br>plant  | \$8/lb. Fresh  | \$5440                                      |

# Low Cost/High Labor Urban Farming

- \$5000 initial investment
  - Hand Labor
    - LLC
  - Diverse Cropping
  - Cottage Industry Laws
  - Value Added Products
- Farmer's Markets, CSA, and Wholesale
  - Drying Capacity

### Measuring Returns

- Self-Sufficiency
- Trade with neighbors
- Two \$10,000/year jobs
- Impossible to price externalities
- Farming is a fundamental human right

# Thank You



@cookeforest