

An integrated approach to farming rooted in principles of ecology and soil health, leading to improved conservation outcomes. Principles govern land management and practice consideration: Reduce disturbance, optimize photosynthesis, maximize biodiversity, support animal integration, integrate recycling, know your context

Fall 2025-Winter 2026

Spring 2026

1. LAND PREPARATION

Field was tilled, deep ripped to 6 ft down tree rows



2. SOIL AMENDMENTS

Mixture of compost and biochar trenched 2-3 ft in berm of tree rows and surface applied



3. TREES PLANTED

Planted November
Variety- Independence
Rootstock is Hansen 536
Spacing: 15 x 21 ft



4. COVER CROP MIX

Chiquito mix: Triticale, Barley, Bell beans, Dundale Peas, VNS Peas, Common Vetch, Canola, Daikon Radish, Crimson Clover.
Seeding rate 50 lbs./acre.
Planting method: light tillage followed by broadcast

5. IRRIGATION AND FERTIGATION

Single line hanging on trellis with button emitters. 20 gal organic grow fish, 10 gal organic 3-1-1, 2 gal Pacific MultiMix Ligino+, 5lbs/ac ProStim NF 15-0-0



6. WEEDING AND GRAZING

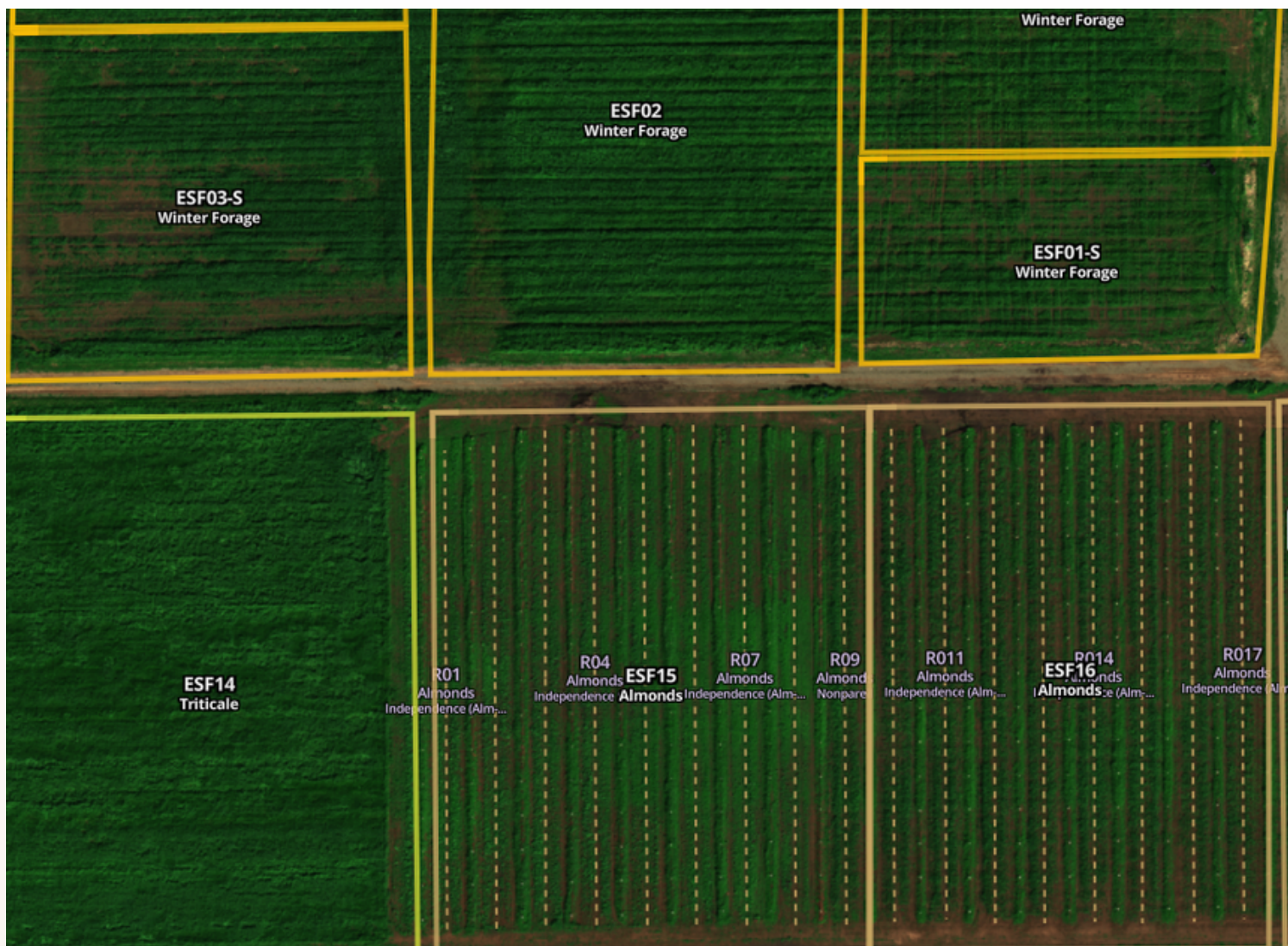
Manually around young trees
Option for grazing in young orchards with chickens/ poultry



8. HEDGE ROW PLANTING

180 ft. Chosen species for pollinator, pest control, soil health, and wind control





Soil texture: Sandy Clay Loam

Fall 2025 Soil Analysis: lb. available per acre

Organic N -42
Nitrate -11
Ammonium -15

C:N ratio - 16.5
Ph - 7.1
OM LOI- 3.8

SOIL ANALYSIS AND OUTCOME MONITORING PLAN:

Structure: Bulk density/aggregate stability
Chem: TC, TN, nitrate, ammonium, macro and micro, pH, CEC
Biological: Ace Protein, POXC, PLF A , soil enzymes, short-term CO₂ mineralization, microbial biomass
Water relation: vol. & gravimetric moisture, infiltration

Spring 2026 Soil Analysis: lb. available per acre

Organic N -55
Nitrate -7.5
Ammonium -11

C:N ratio - 14.5
Ph - 7.1
OM LOI- 3.1

Spring 2026 Compost analysis: lb./ton weight

Organic N- 16
Nitrate N- 1.7
Total N - 19
Available N year one- 5.8
Total C- 152
Potassium - 37
Phosphorus - 16