**VINEYARD MECHANIZATION**

**Power Points:**

**1. PRUNING**

1. Pre-pruner
2. Hand pruning
3. Removal of cuttings
4. Summer hedging

**2. CROP PROTECTION**

1. Lime Sulfur spraying
2. Herbicide spraying
3. Fungicide and Insecticide spraying
4. Mowing and Rodent control
5. Bird control

**3. HARVESTING**

1. Picking
2. Transporting Grapes
3. Handling Grapes in Winery

**YouTube Videos:**

Mike White Munckhof Hedger at Danziner Vineyards:

<https://www.youtube.com/watch?v=9zVE6Le0LPw>

WGGA Munckhof Barrel Pre-pruner:

<https://www.youtube.com/watch?v=VyX_4YRnYcs>

**Equipment Websites:**

Website for used vineyard equipment in Europe: Agriaffaires.co.uk

<http://www.agriaffaires.co.uk/used/1/wine-growing-equipment.html>

Website for vineyard equipment in USA

<http://www.munckhof.com/vineyards.php>

<http://www.lakeviewvineyardequipment.com/>

Pruning: Hand Shears – Right – Left – Ergonomic (roller handle)

Hand Shears need daily cleaning and annual tune-up

Electric hand Pruner – Costly but allows you to work longer

Pneumatic hand pruner

Lopper Shears – Used for cordon pruning

Tapener Tie Gun – Great Unit but need repairs

Plastic hand Ties to fasten cordon

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

HEDGING DURING THE GROWING SEASON

X-MAS KNIFE / MATCHEE (Christmas Tree Pruning Knife)

GAS POWERED HAND TRIMMER

SUMURAI – HYDRALIC DOUBLE SICKLE

HYDRAULIC TRACTOR MOUNTED HEDGER – SICKLE OR ROTARY

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

MECHANICAL PRUNING

PREPRUNER – BARREL PRE-PRUNNER

POWER BRUSH TO SWEEP ROWS

SHREDDER TO GRIND UP THE PRUNINGS

HYDRALIC TRACTOR MOUNTED HEDGER

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

SPRAYING – NEED TWO SPRAYERS

ATV MOUNTED UNIT FOR HERBICIDES

TRACTOR 3 POINT TOWER AIR BLAST SPRAYER

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

NETTING – 12 MILES OF NETTING – EACH ROW INDIVIDUALLY BAGGED AND TAGGED

Stored in semi-van trailer and applied and picked up with homemade unit