



The Home Vineyard



I. BRIEF HISTORY OF GRAPE GROWING

Early grape culture Grape growing in California Effects of 18th Amendment (Prohibition!) Post Prohibition



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II. HOME VINEYARD CULTURAL PRACTICES

- A. Site selection
 B. Plant selection Rootstock and cultivars for home vineyard
 C. Planting and early care during First Leaf
 D. Second Leaf care

- E. Third leaf and beyond F. Pruning principles
- G. Irrigation
- H. Pest Control
- I. Diseases

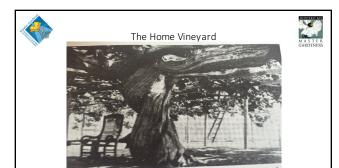


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Brief History....

- Family "Vitacee"; Genus "Vitis";
 Mostly species "vinifera". V labrusca is eastern NA species; V rotundafolia is found in southern states. French hybrids inter-species crosses.
- Seeds in refuse piles of pile dwellers.
- Biblical mentions
- Culture began in Asia Minor
- Phoenicians moved grapes into Europe
- California Mission grape
 - Southern California
 Northern California





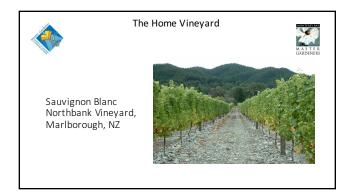
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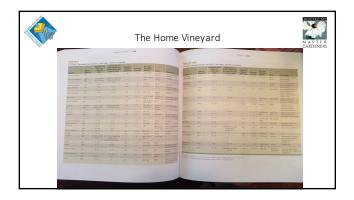
- Site selection:
 - Soil types can be varied between sandy and clay slightly acid pH 5.5 to 6.5

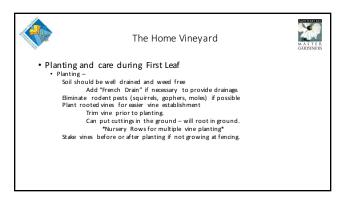
 - Grapes do reasonably well in poor, shallow soils
 - $\bullet\,$ Vine spacing depends on soil types and vigor of vines being planted.
- Selecting plants
 - Rootstocks may not need if soil free of *phyloxera* and nematodes.
 Cultivars dependent on climate for proper ripening.

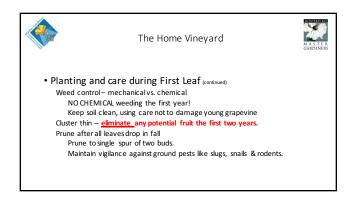
 - Table Grapes
 Wine Grapes
 Raisin Grapes

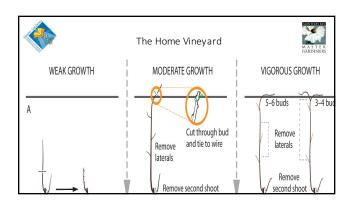


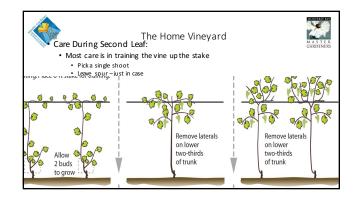


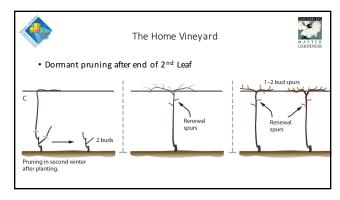


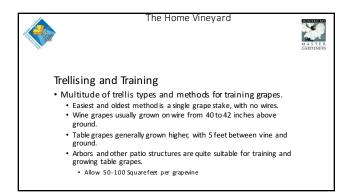


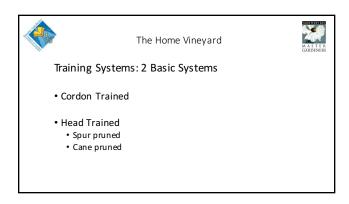


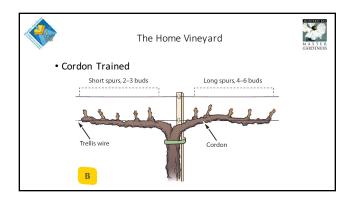


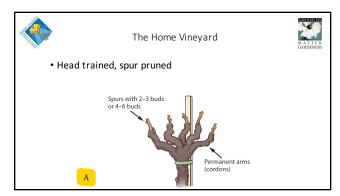


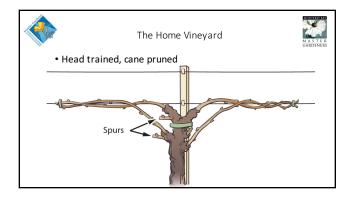














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Principles of Pruning

- 1. Pruning has a depressing or stunting effect on the vine; the removal of living vegetative parts at any time decreases the capacity or total productive ability of the vine.
 - -Leaf area, number and size determines capacity.



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Principles of Pruning

- 2. The production of crop depresses the capacity of the vine for the following year or years.
 - Over cropping when very young can depress vine growth & production for many years, especially large cluster varieties.



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Principles of Pruning

- 3. The capacity of the vine varies directly with the number of shoots that develop.
 - Capacity of vine determined by leaf area, NOT how fast the shoots grow.



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Principles of Pruning

- Few shoots with reduced crop will have greater growth than many shoots with crop. $\,$

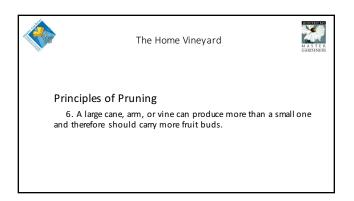


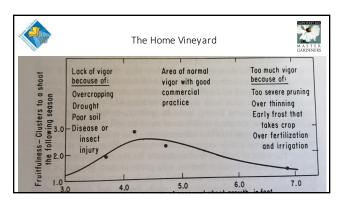
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Principles of Pruning

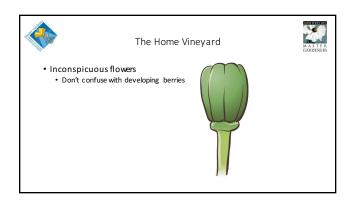
- 5. The fruitfulness of a vine, within limits, varies inversely with the vigor of the shoots.
 - VINE BALANCE IS THE KEY.

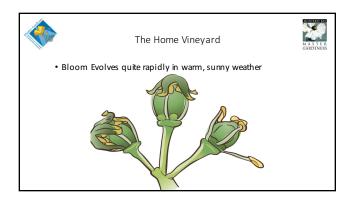


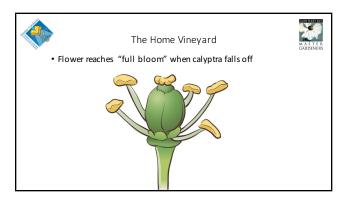


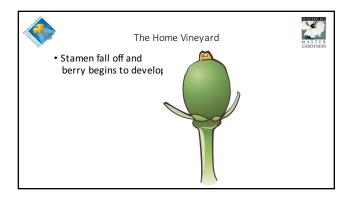
7. A given vine in a given season can properly nourish and ripen only a certain quantity of fruit; its capacity is limited by its previous history and its environment.

- Bearing capacity without delaying ripening is IDEAL.



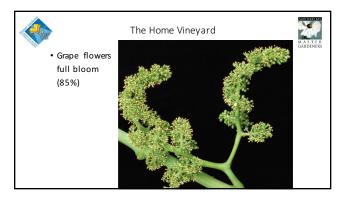




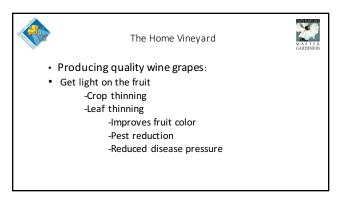












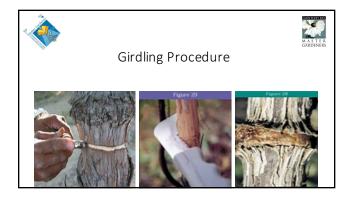


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Producing quality table grapes:

- Thin, thin, thin
 - Flower cluster thin too many blooms
 - Cluster thin vine set too many cluster
 - Berry thin improves berry size.
- Girdling & growth regulators
 - Not common in home vineyards







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Irrigation for Grapevines

- Grapes need moderate irrigation can require up to 10 gallons/day/vine in very warm climates like Monterey south county (Soledad to Bradley.)
 - Flood around one or two vines works. Depending on soil, every 2-3 weeks is sufficient.
 - Drip irrigation works great but must be done more frequently.
 - Avoid stress between bloom and veraison.



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Grape Nutrition

- Grapes have pretty low nutritional needs compared to most crops
- Nitrogen don't over fertilize... will lead to extreme vigor, reducing fruitfulness.
- Zinc can be dabbed on pruning wounds in winter or foliar spray 1-2 weeks prior to bloom
- Potassium apply to soil 6" deep and 18" from trunk of vine.



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Pest Management

- Invertebrates
 - Leafhoppers, thrips, western grapeleaf skeletonizer, leaf folders, leaf rollers, blue-green & glassy winged sharpshooter (GWSS), light brown apple moth (LBAM), cutworms
 - See UC IPM Guidelines for treatments
- Diseases

Powdery mildew, Botrytis cinerea, Eutypa sp.



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Pest Management

veraison

Diseases
 Powdery mildew, easily
 Controlled with dusting sulfur at 6", then every 6" until









