

Oak Regeneration Tips and Techniques

**GSOB Online Education
and Outreach Webinar**

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How to Artificially Regenerate Native California Oaks

- Acorn Collection, Storage and Planting
- Growing Oak Seedlings:
 - In Greenhouses*
 - In Bareroot Nurseries*
- Planting and Maintaining Seedlings in the Field

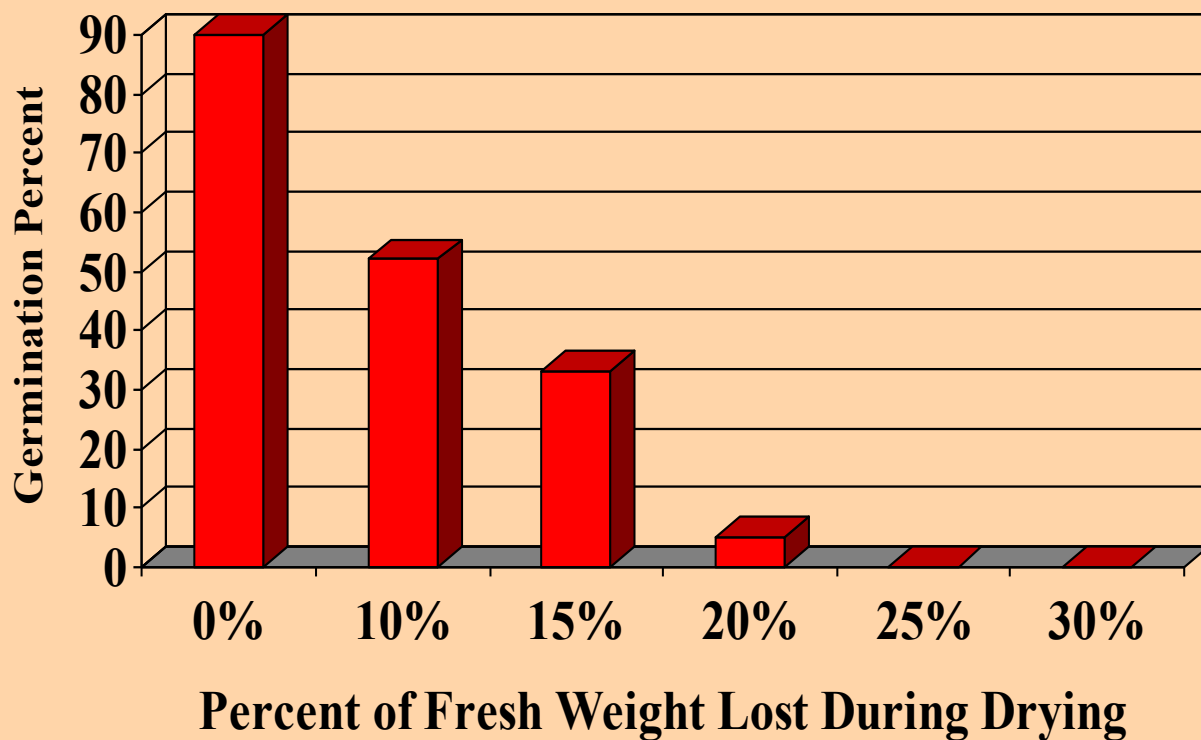
Acorn Collection, Storage and Planting







EFFECTS OF DRYING ON ACORN GERMINATION (for a 10-week germination test)



SIERRA FOOTHILL RANGE
FIELD STATION
← HEADQUARTERS

UC

UC









Growing Oak Seedlings



Box 1
Sleeve 4
Harvest 5/2









Planting and Maintaining Oak Seedlings in the Field

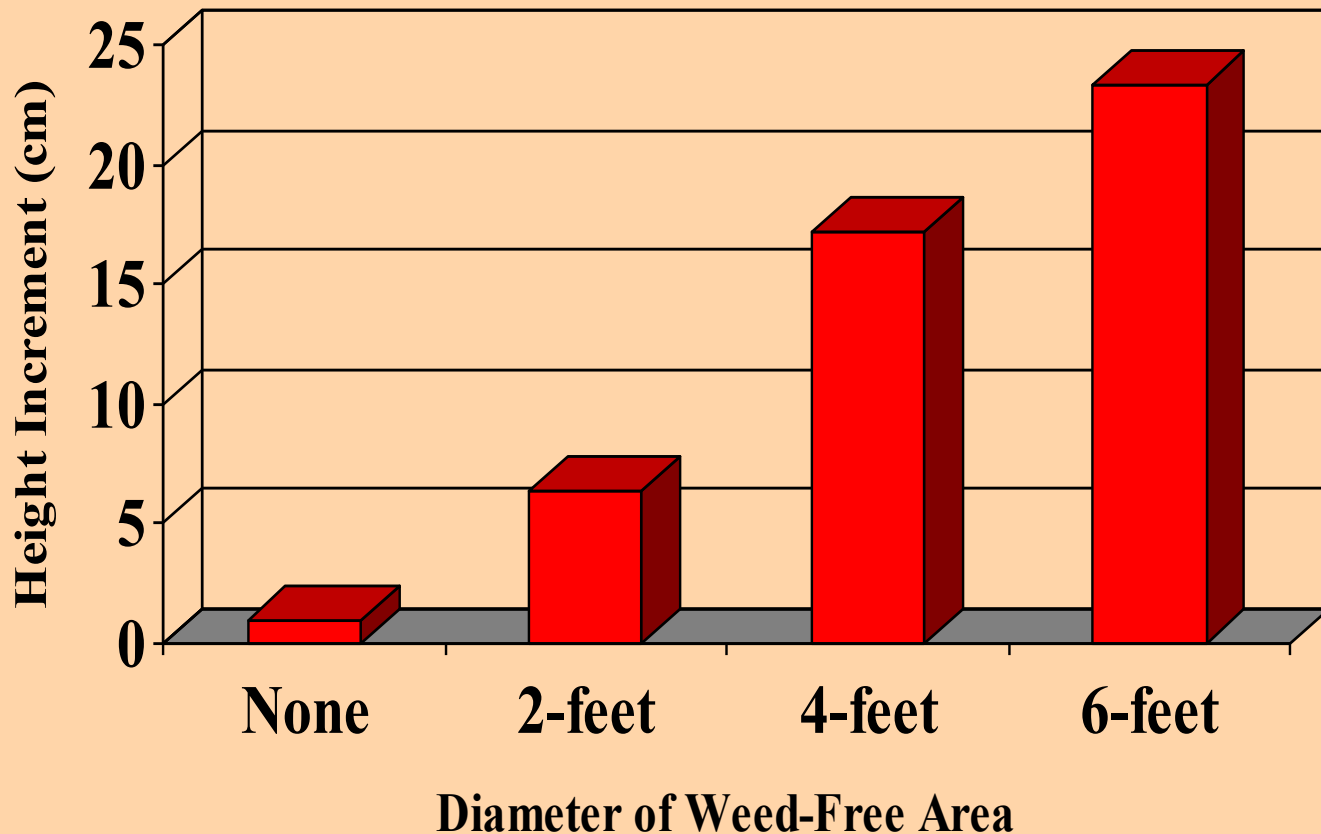








First-Year Height Increment (for different levels of weed control)





Meadow Mouse or Vole
Microtus californicus







US
NAVY
MARINE CORPS
PROJECT
DO NOT DISTURB









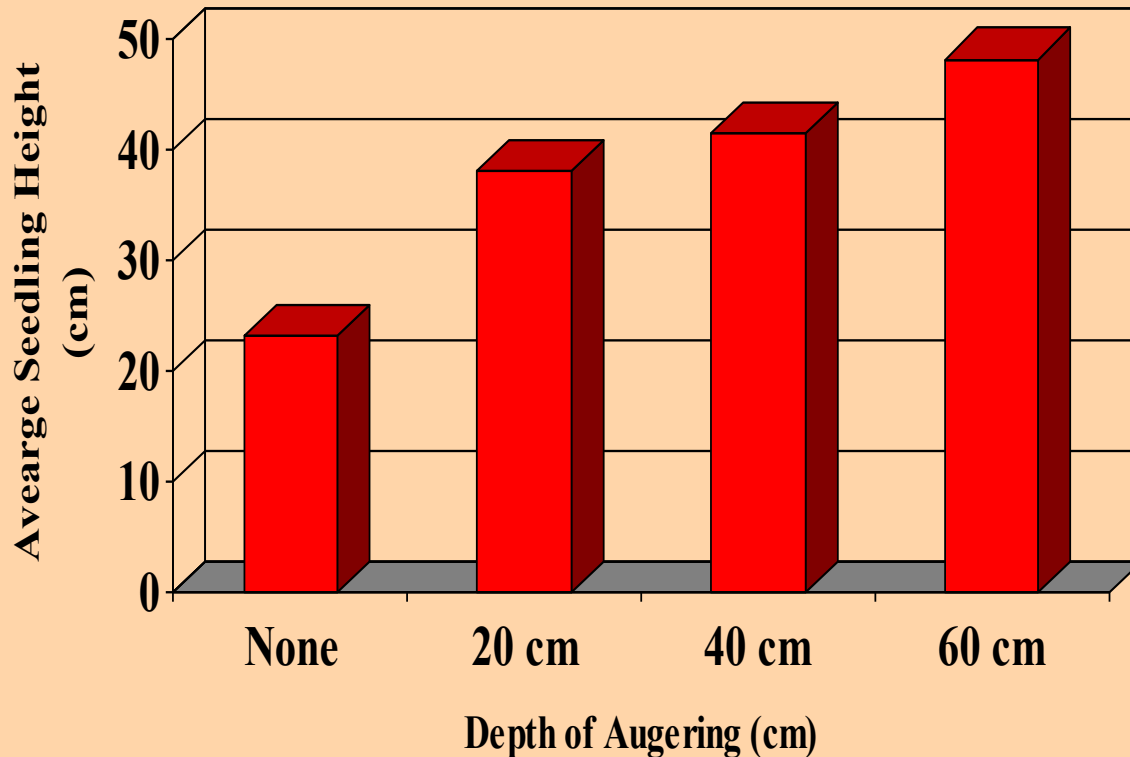






AVERAGE SEEDLING HEIGHT

Two Years After Planting



Agriform

PLANTING TABLETS 20-10-5

706-1005
20 00%

GUARANTEED ANALYSIS:

TOTAL NITROGEN (N)*	20.00%
7.0% Water Soluble Organic Nitrogen	
13.0% Water Insoluble Nitrogen	
AVAILABLE PHOSPHORIC ACID (P ₂ O ₅)	10.00%
SOLUBLE POTASH (K ₂ O)	5.00%
CALCIUM (Ca)	1.80%
COMBINED SULFUR (S)	0.95%
IRON (Fe)	

Derived From: Ureaformaldehyde, Calcium Phosphate, Potassium Sulfate, Calcium Sulfate, Ferrous Sulfate.

* 17% Slowly Available Nitrogen From Ureaformaldehyde.

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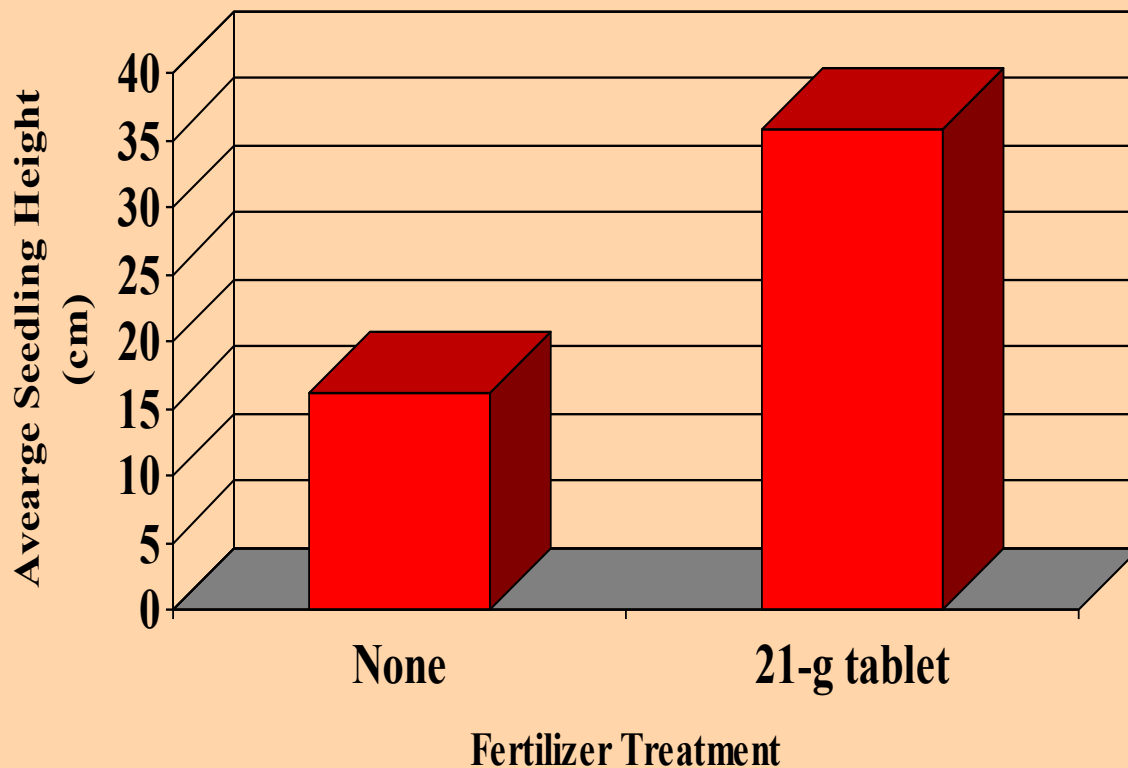
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Net Weight: 23 lbs., 2.4 oz. (10.5 Kg.) (500 Tablets of 21 grams each)

APX 5/91 UM



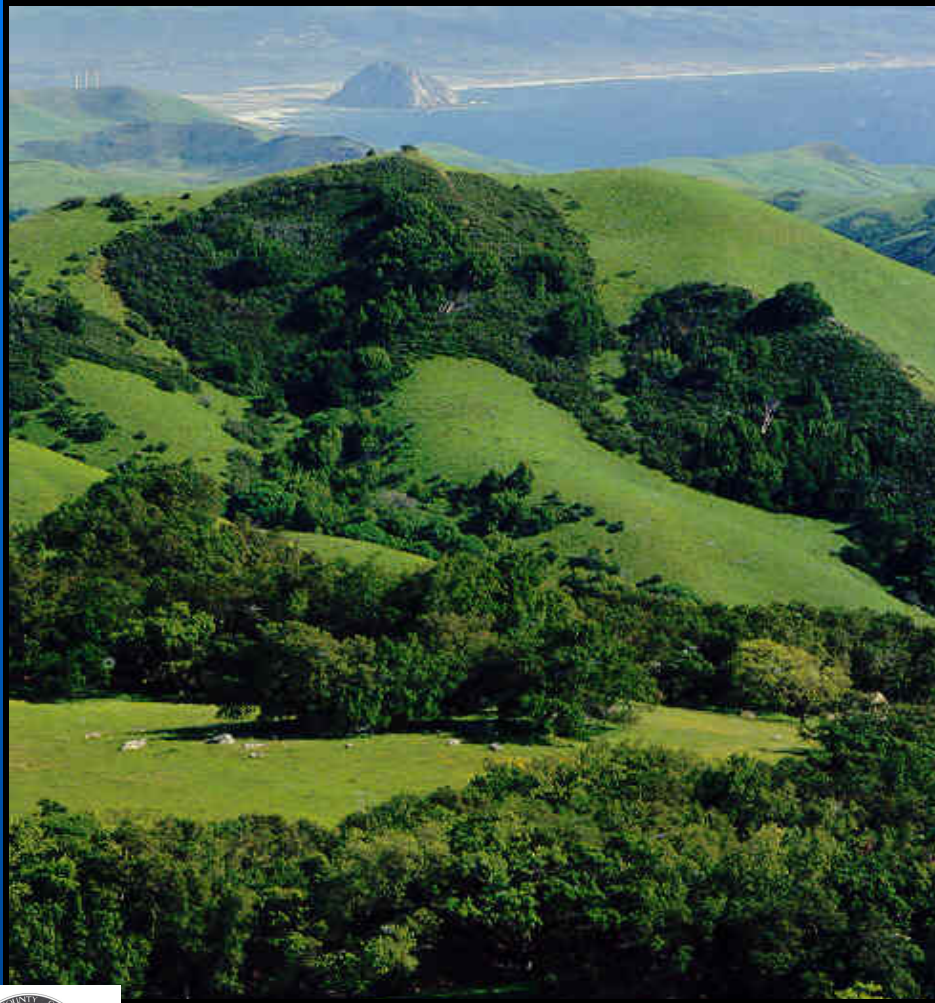
AVERAGE SEEDLING HEIGHT INCREMENT (Two Years After Planting)



Regeneration Conclusions

- **Controlling competing vegetation is essential and can eliminate need to irrigate**
- **Protecting seedlings from damaging animals is also critical to growth and survival ---**
- **Can improve field success of artificial regeneration by choosing more favorable microsites to plant**
- **With sufficient care, planning, and management, native California oaks can be established artificially**

End



Oak Management ONLINE

http://ucanr.org/sites/oak_range/

- Publications (Including *Regenerating Rangeland Oaks in California*)
- Sources of Assistance & Links to Other Sites
- Archived Articles from Newsletter *Oaks 'n Folks*
- Conference & Meeting Announcements
- Online Proceedings
- County Oak Activities
- Species and Oak Subject Information