

OAK ACORNS

THEIR PESTS & FIRE

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CA FOREST PEST COUNCIL ANNUAL MEETING
Nov 14 & 15, 2023



MAST YEAR (?)

- Valley oak (*Quercus lobata*)



MAST YEAR (?)

- Blue oak (*Q. douglasii*)



MAST YEAR (?)

- OR white oak (*Q. garryana*)



MAST YEAR (?)

- Coast live oak (*Q. agrifolia*)



MAST YEAR (?)

- Scrub oak (*Quercus* spp.)



ACORN DEVELOPMENT



ACORN PESTS

- Drippy nut (*Brenneria quercina*)



ACORN PESTS

- Filbertworm (*Cydia latiferreana*)



ACORN PESTS

- Filbert weevil (*Curculio* spp.)



ACORN PESTS

- Filbert weevil (*Curculio spp.*)
- KQED PBS *Deep Look*

A YouTube video player interface. The video content shows a close-up of a brown weevil with a long, dark, pointed snout. The weevil is positioned on the left side of the frame, facing right. Its snout is inserted into a hole in the textured, brown surface of an acorn. The background is a soft, out-of-focus green. The video player includes a progress bar at the bottom, showing a play button, a volume icon, and a time indicator of 0:03 / 5:46. Below the video player, the title "This Weevil Has Puppet Vibes But Drills Like a Power Tool | Deep Look" is displayed. The channel name "Deep Look" is shown with a verified badge and "2.11M subscribers". To the right of the channel name is a "Subscribed" button with a dropdown arrow. Further right are icons for "Like" (1.4K), "Share", "Thanks", and "Save".

This Weevil Has Puppet Vibes But Drills Like a Power Tool | Deep Look

Deep Look 2.11M subscribers

Subscribed

1.4K Share Thanks Save

ACORN PESTS

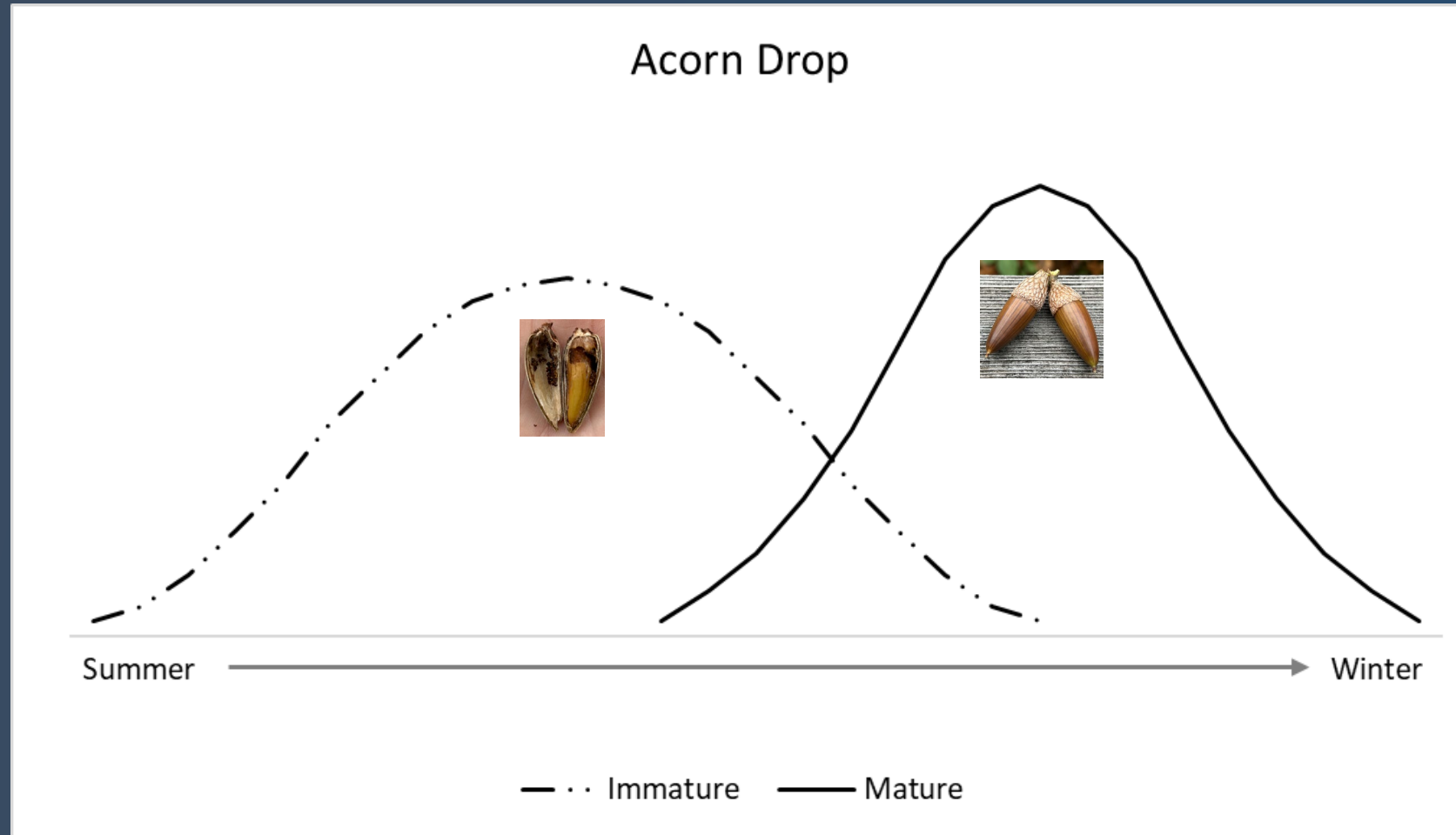
- Filbert weevil (*Curculio* spp.)
- KQED PBS *Deep Look*



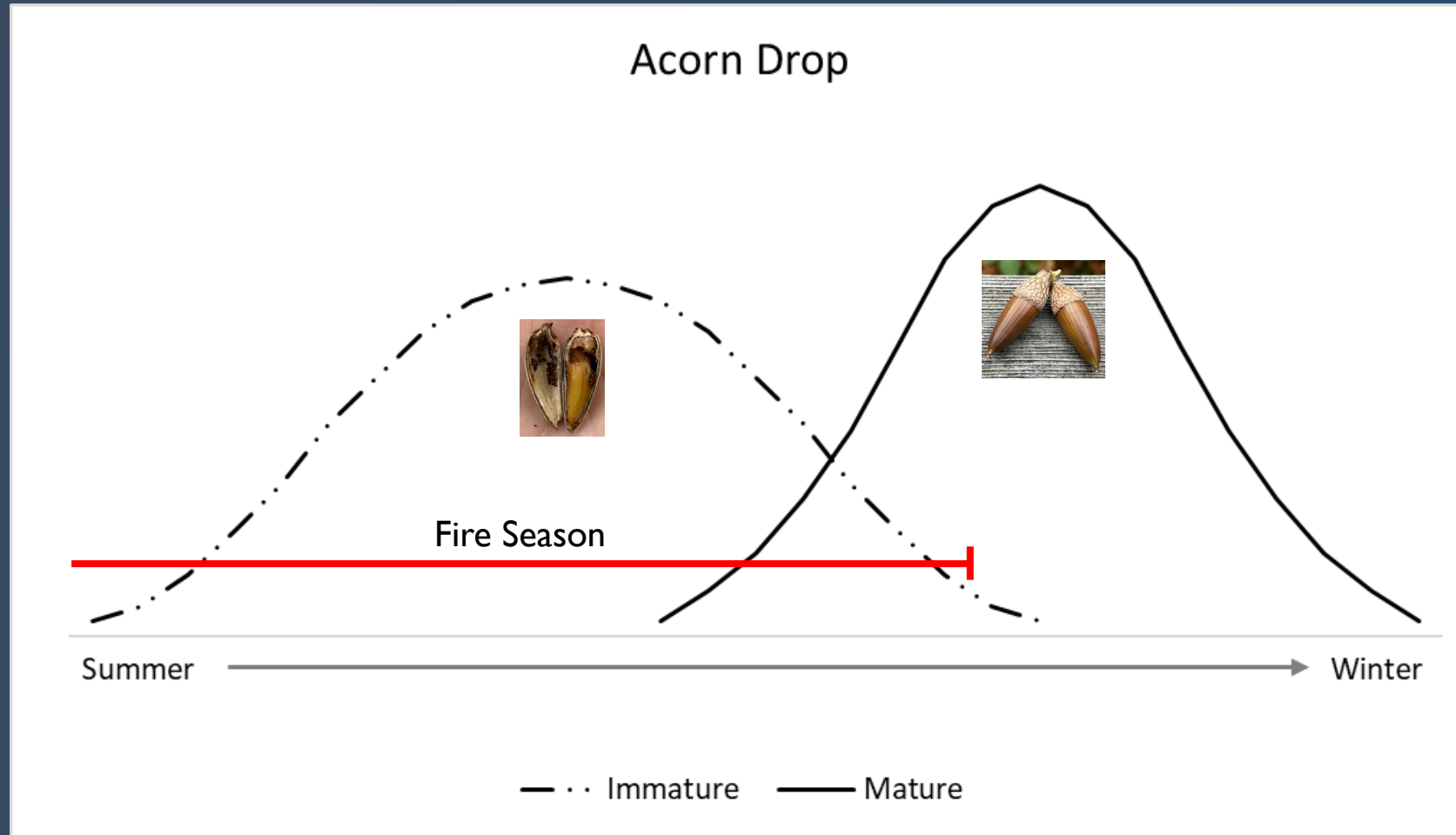
MANAGING ACORN PESTS



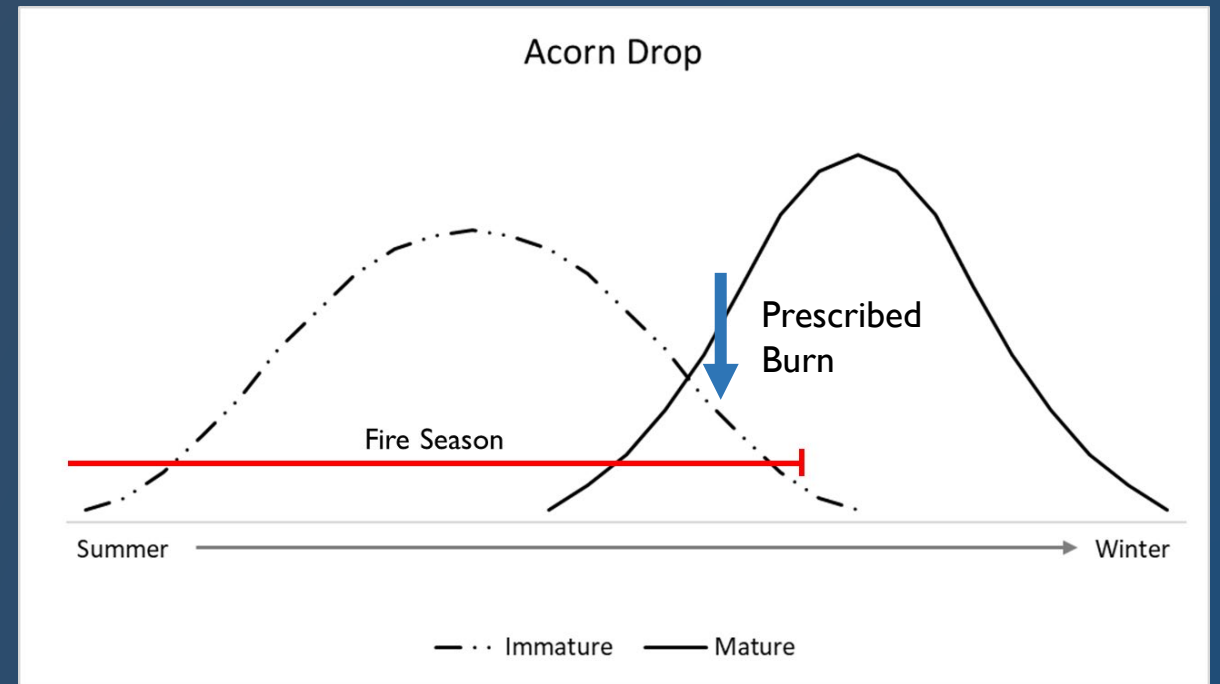
ACORN DROP



ACORNS AND FIRE



ACORNS AND FIRE

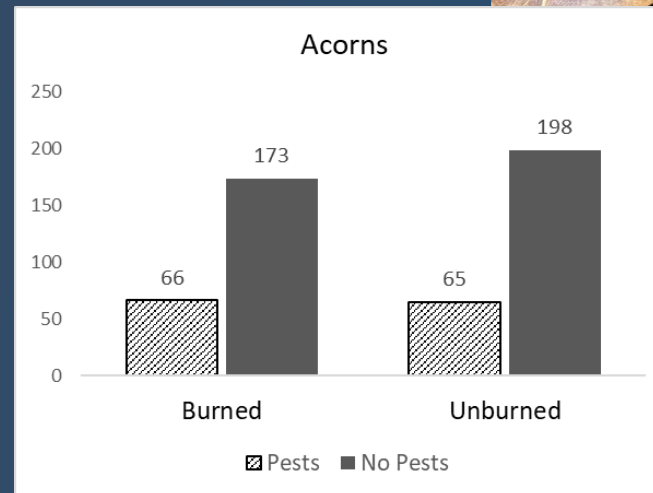


ACORNS AND FIRE



ACORNS AND FIRE

- 502 acorns sampled
 - 26% with signs of pests
 - Exit holes, galleries, deformaties, predation
 - 74% without pests
- 48% burned
- Reduce pest load by ~50%



ACORNS GERMINATING WITH PEST DAMAGE



THANK YOU

Questions?

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UC Oaks (<https://oaks.cnr.berkeley.edu/>)

