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Costs

- Milestone
 - \$2.85/oz 5 ounces/acre = \$14.25/acre
- Transline
 - \$2.14/oz
- 2,4-D (Weedar 64)
 - \$0.16/oz
- MCPA
 - \$0.21/oz but save the cash!

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Rates

- Transline (clopyralid)
 - Small thistles mid spring 5 oz/acre
 - Good chance of no late germination unless rainfall lasts really late
 - \$10.70/acre
 - Later spring larger thistles 11-16 oz/acre
 - Little chance of late season germination
 - \$23.54-34.24/acre
 - Filaree will survive, clover is toast this year
 - Very safe with trees

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Rates

- Weedar64 (2,4-D)
 - Small thistles early spring 32 oz/acre
 - · But may germinate later
 - \$5.12 an acre
 - Large thistles late in the year 48-64 oz/acre
 - May not re-germinate, but have already done damage
 - \$7.68-10.24/acre
 - Filaree is killed but will re-germinate well
 - Clover will be hurt by the higher rate, some will survive this year

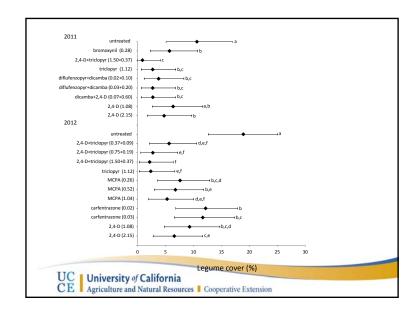
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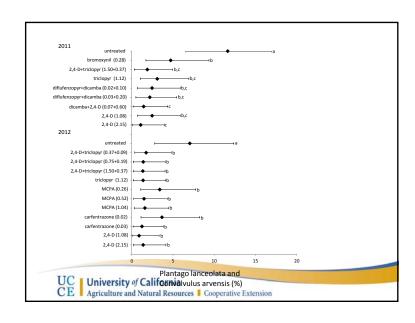
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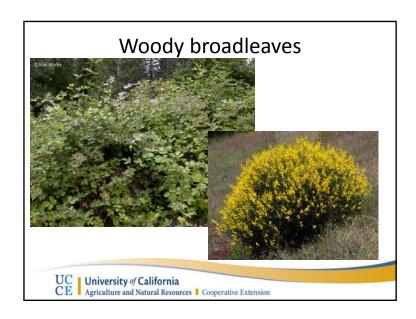
Rates

- Milestone (aminopyralid)
 - As early as winter small thistles 3 oz/acre
 - \$8.55/acre
 - Later spring large thistles or hard to kill plants 5-7 oz/acre
 - \$14.25-19.95/acre
 - Clover is toast this year
 - Filaree is toast only with the higher rates
 - Check label for tree restrictions
 - Best residual

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Best two options

- Tryclopyr (Element, Garlon, Remedy)
 - The ester form is best when temps are below 80 degrees. If temp is over 80 use the amine (vaporization)
 - Typically know as 4 (ester) vs. 3A (amine)
 - Examples = Garlon3A vs. Garlon4
 - Best sprayed at 1.5% mixture for broom (2 oz/gallon water)
 - 1% for black berries
 - Best sprayed mid summer but can even work dormant
 - If sprayed later add crop oil at 3%
 - Adding 1% glyphosate (roundup can help)
 - Homeowner versions have very reduced concentrations!



Costs

Note, backpack so no acre costs

- Tryclopyr (Garlon, Element)
 - Timing matters, but the best for woody plants
 - \$136/gallon Garlon
 - \$1.06/oz
 - \$82/gallon Element
 - \$0.64/oz
 - \$100/gallon Remedy
 - \$0.78/oz

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Quick notes

- Cut stump methods
 - Use the concentrate directly of either
 - Do not wait after cutting or the treatments worthless!
- Cost effective choice
 - Roundup is cheaper but has a narrow window
- Broom seeds last 30 years!
- Blackberries probably last several years

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Two best options continued

- 41%+ glyphosate (Roundup Pro)
 - 1.5% solution (2 oz/gallon)
 - Other products such as Roundup Concentrate (18%) will need 4.5 oz/gallon
 - Spray late summer to early fall, not during flowering - Spray window is less than tryclopyr
 - Coverage is essential!
 - Mow or burn 40-60 days after treatment for berries, leave for 4 mos with broom
 - \$0.47/oz

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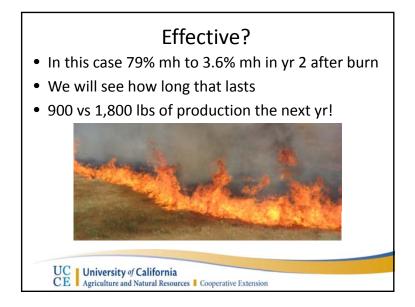
Other options for broadleaves

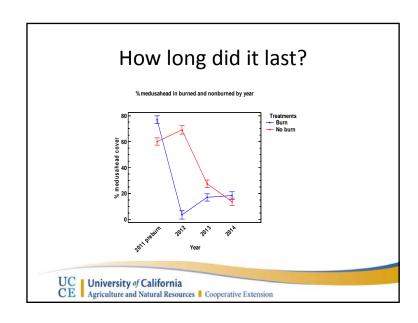
- Mowing/grazing
 - Can exhaust root reserves, but must be repeated and timed perfectly!
- Burning
 - Works better on some than others
 - Will usually stimulate rhizomes or seeds left so a follow-up spray is very important
 - Can potentially be the best if followed up

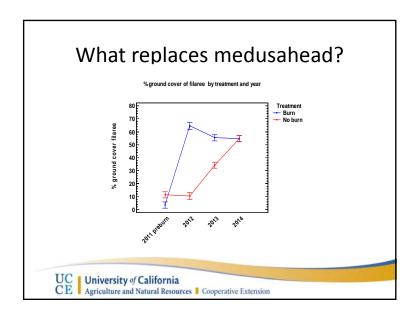
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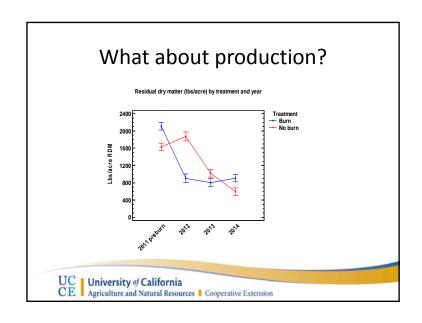
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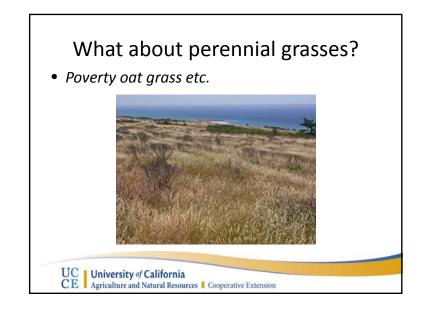




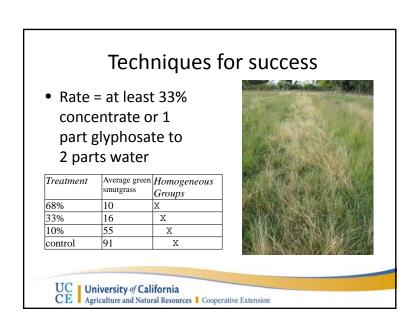


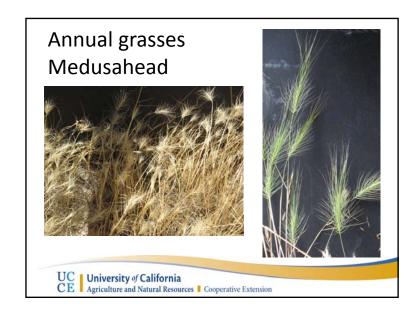


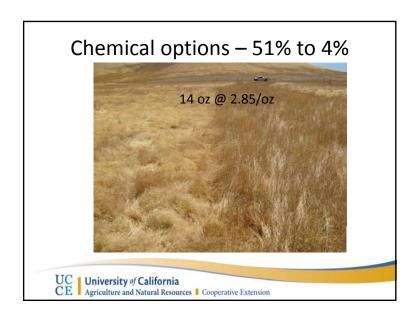


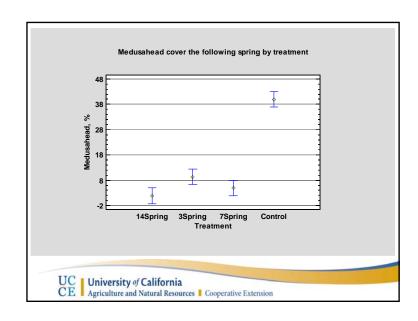


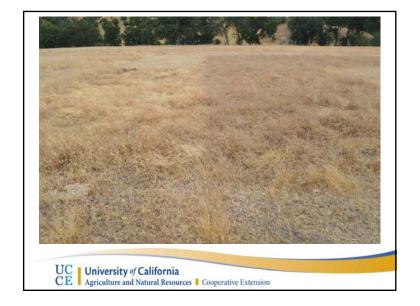


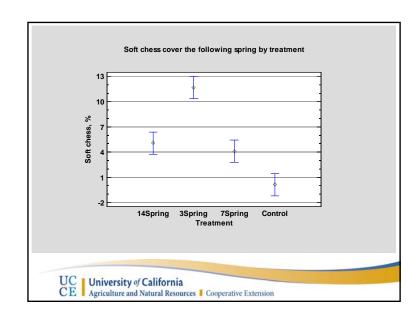


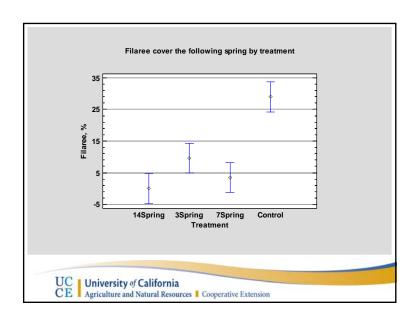


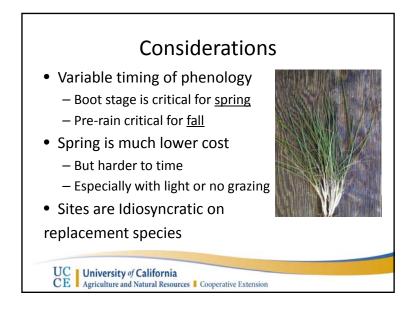


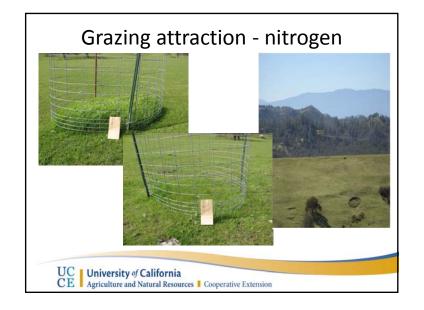




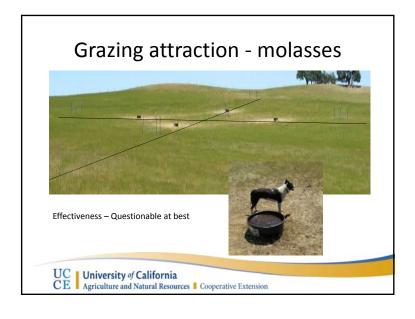














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