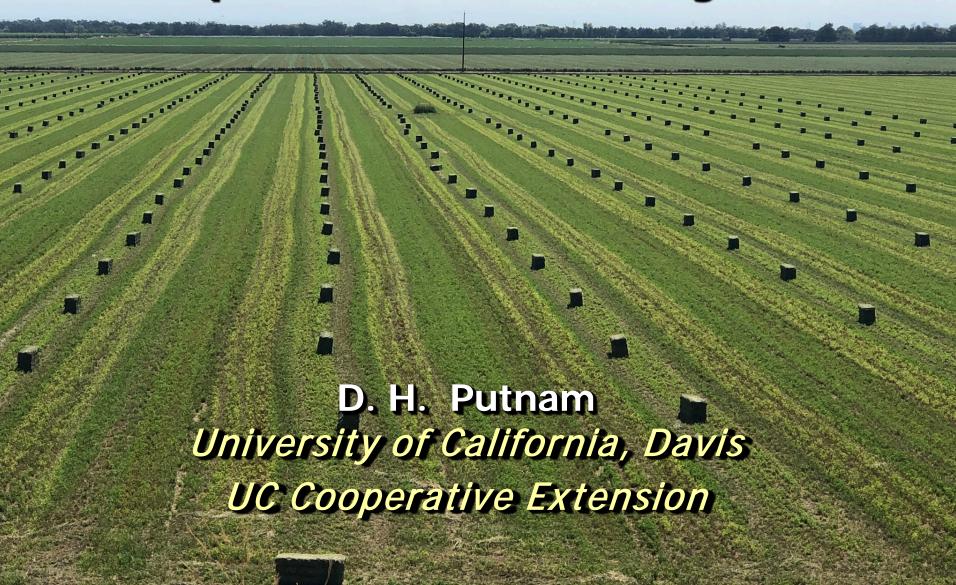
Choosing Alfalfa Varieties: its importance to Pest Management



Alfalfa Seed – Your Future

• The full yield, quality, pest resistance potential is contained in that tiny seed

Biotech traits (RR and HarvXtra)



Criteria for Choosing Alfalfa Varieties?

- My grandpa planted that variety, seemed to work
- Cost of Seed?
- Rumors: Everyone's planting that one?
- Got a great hat from the seed guy?

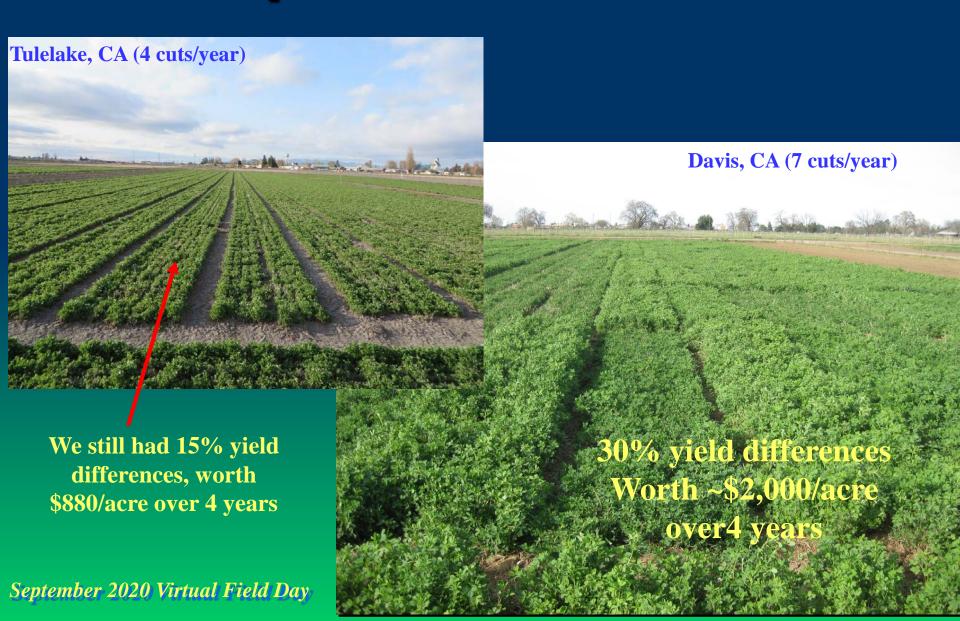
CorrectCriteria for Choosing Alfalfa Varieties:

- **-Yield**
- Fall Dormancy
- Pest Resistance Package
- Persistence
- Quality Possibilities
- Biotech traits (RR, HarvXtra)
- Performance: Return on Investment (not cost)
- Cost

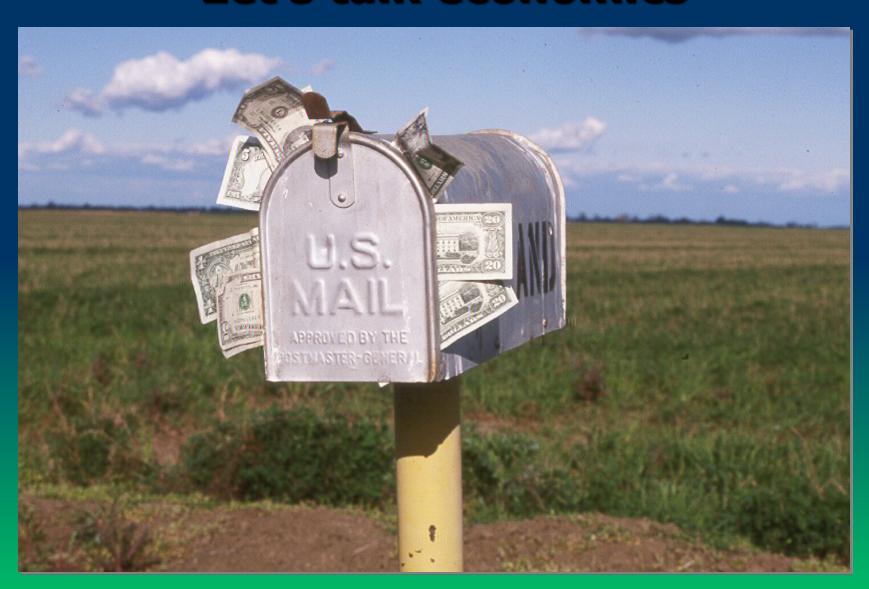
Variety Choice: What's the difference?



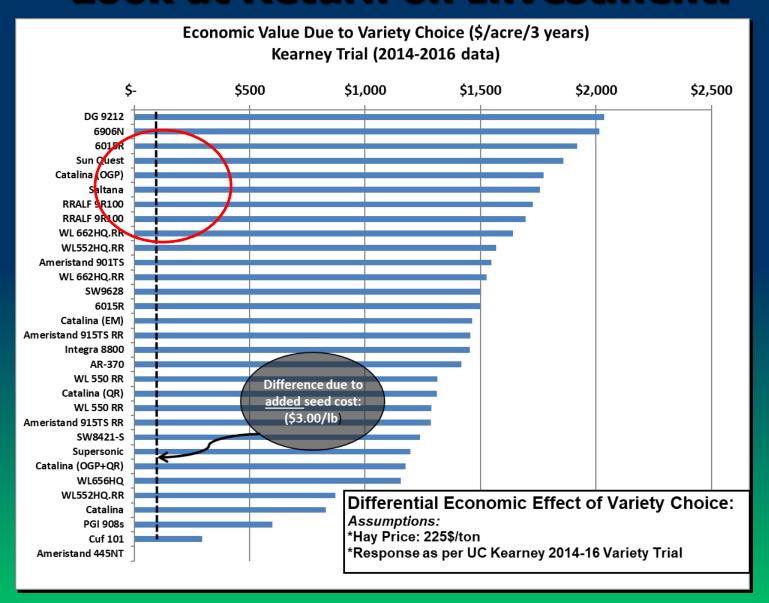
Can you tell the difference?



Let's talk economics

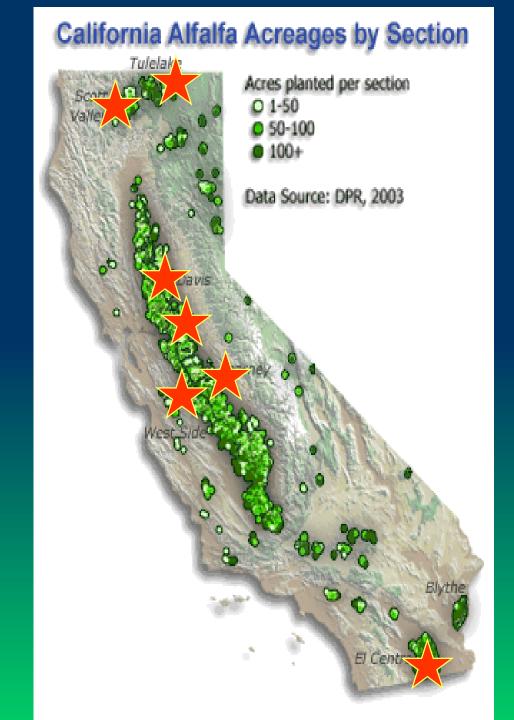


Look at Return on Investment:



Variety Trials:

- Understand your Agro-Ecological Zones
- Differences in Fall Dormancy
- Differences in CuttingSchedules





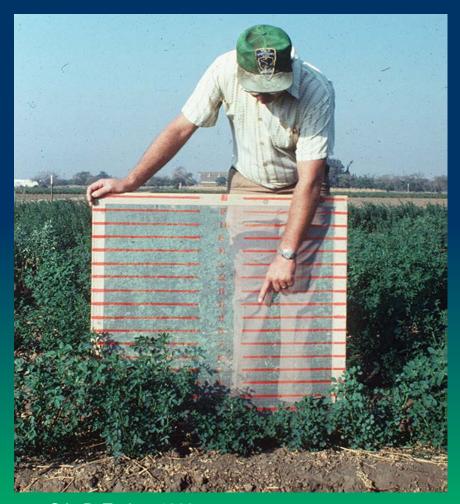


September 2020 Virtual Field Day

Fall Dormancy (December)



Fall Dormancy Evaluation



© L. R. Teuber, 1998

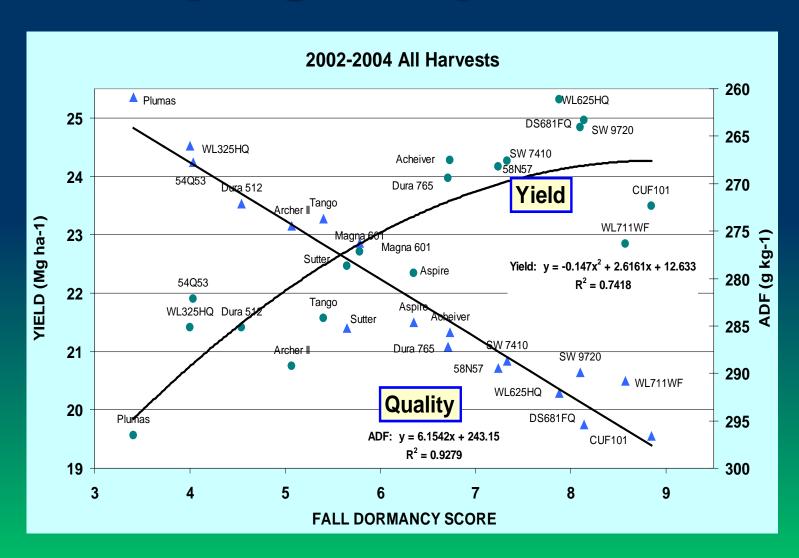
Evaluation method

- Four locations
- Spring planted (seeded)
- Spaced plants.
- Fall clip 3.5 weeks of regrowth.
- 1 to N scale;class = 5 cm of regrowth
- Scores are square root transformed to remove heterogeneity.

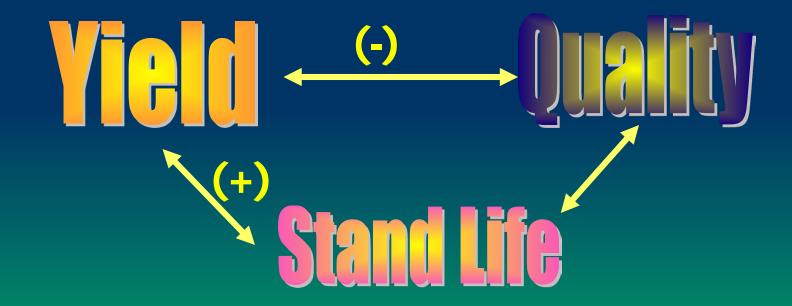
Fall Dormancy of Alfalfa Varieties



Variety, Quality and Yield



Alfalfa Quality: Always a Dilemma:



Slightly more dormant varieties may have longer stand life, but it depends

FD-General Recommendations

- Since FD is related to yield, increase dormancy to the point where persistence is not compromised
- Persistence link, includes summer/cutting schedule losses (non-dormants)
- Quality link (dormant varieties tend to be higher in quality)

Variety Selection: importance for Pest-Management?

The best defense against weeds, insects and diseases is a vigorous alfalfa stand, with deep roots and vigorous regrowth potential: Variety, stand establishment method