

# Weed Control

*Barry Tickes, University of AZ*

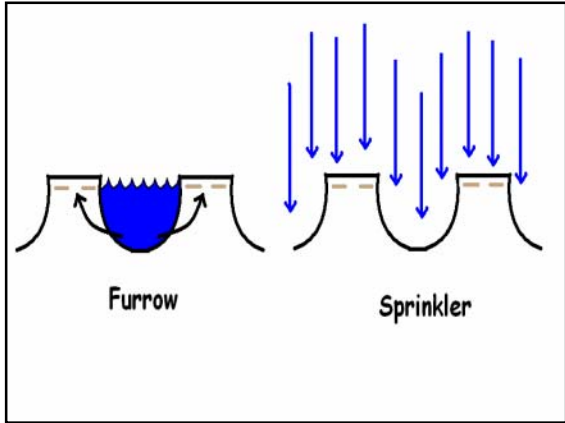
August 11, 2004  
*Fall Produce Pest Management Meeting*  
*Yuma Civic and Convention Center*  
*1440 W. Desert Hills Drive*  
*Yuma, Arizona*

Balan	Kerb	Prefar	
●	○	●	Summer Grasses
●	○	●	Pigweed
●	●	●	Purslane
▶	▶	○	Groundcherry
●	●	▶	Goosefoot
●	●	▶	Lambsquarters
○	●	○	London rocket
○	●	○	Shepardspurse
○	○	○	Sowthistle
●	●	▶	Knotweed
▶	●	○	Cereals
▶	●	○	Wildoat
●	●	●	Canarygrass
●	●	●	Bluegrass

● Excellent    ▶ Partial    ○ None

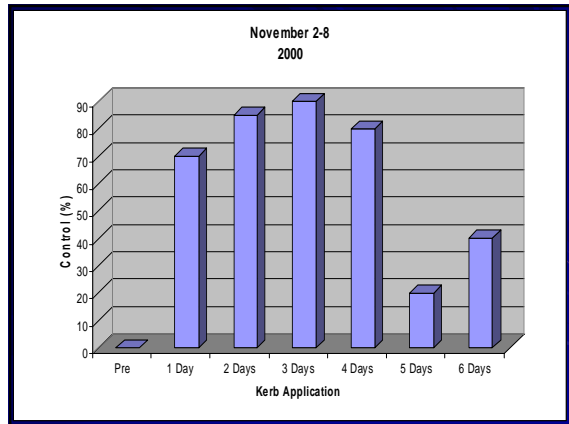
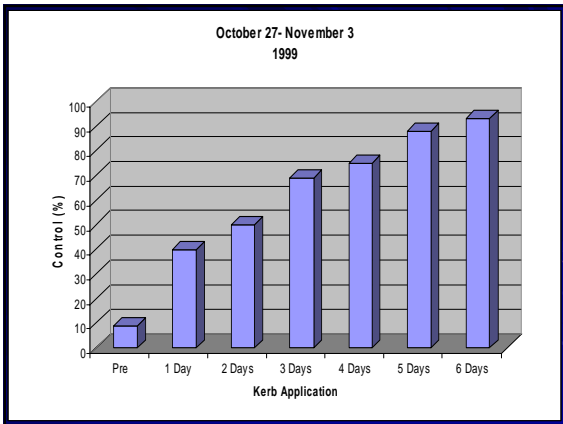
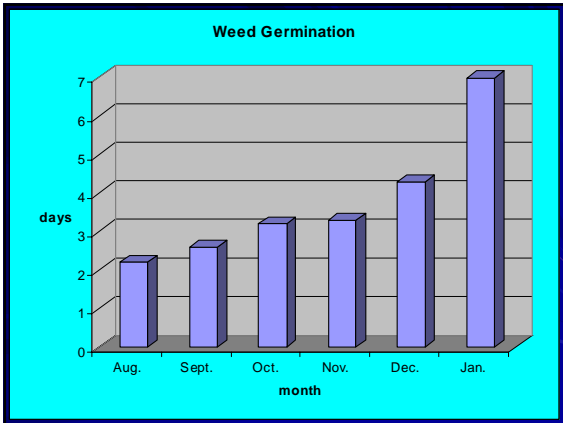
### Mode of Action Comparison

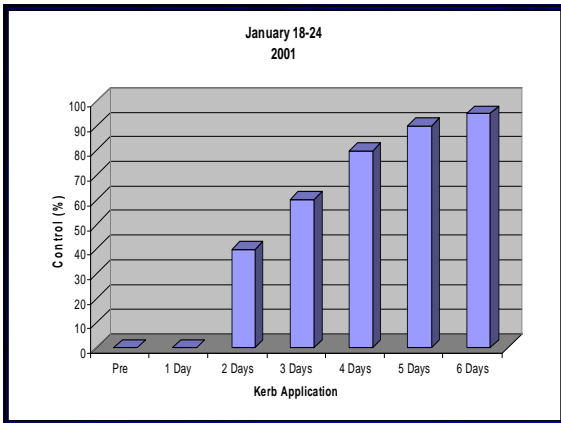
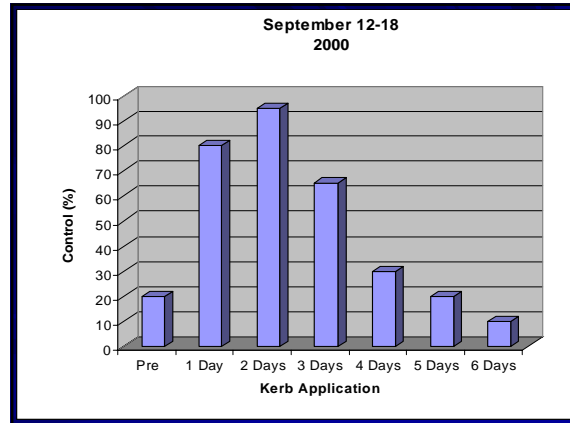
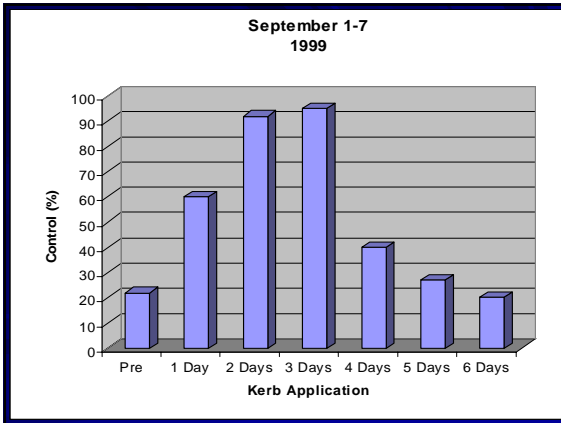
	Prefar	Kerb	Balan
Movement in the soil	Little	Moves with large volumes of water	Little
Movement in the plant	Little	Absorbed by roots & moved upward	Little
Cell Division	Inhibited	Disrupted	Disrupted
Absorbed into & effect	Roots only	Roots & shoots	Roots & shoots
Lateral roots are	Absent	Clubbed	Clubbed



### Kerb Delayed Application

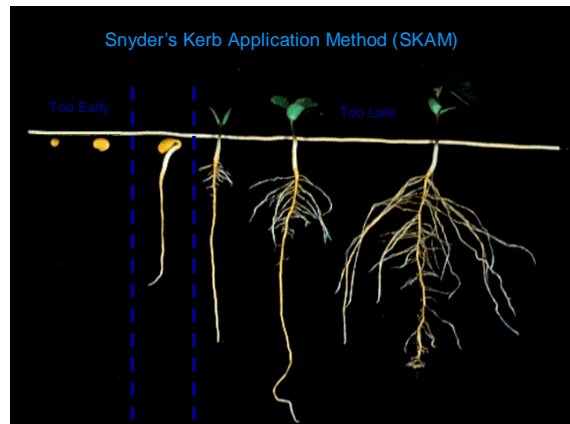
Apply after sprinklers have started to avoid leaching of the herbicide before weeds germinate





- ### Factors Effecting Weed Germination
- Species
  - Depth
  - Environmental Conditions
  - Irrigation Type and Amount
  - Soil Type
  - Other

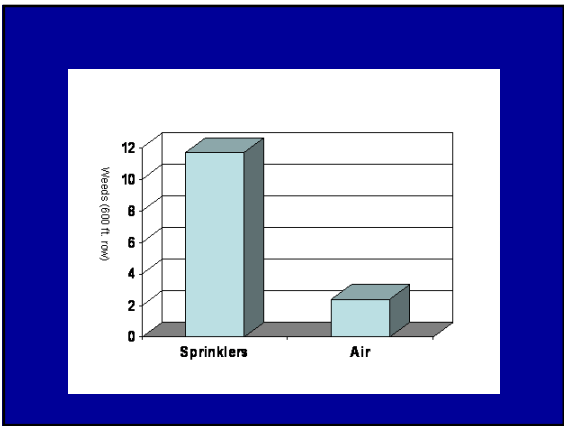
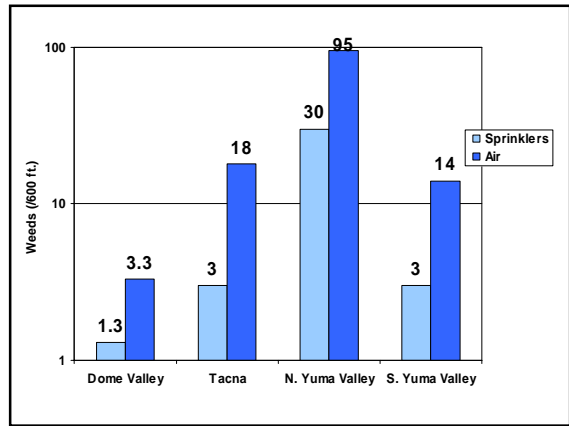
- ### Timing
- Early (Sept. 1 to Oct. 15)    1-3 days
  - Mid. (Oct. 15 to Dec. 15)    3-6 days
  - Late (Dec. 15 to Jan.)        5-6 days





### Kerb Chemigation Vs. Aerial Tests

Location	Plot Size (ac)	Rate (lb/ac)	Date	Applied (days After)	Weeds
Dome Valley	18	1.3	12-11	4	Goosefoot
Tacna	13	1.3	12-31	5	Shepardspurse
N. Yuma Valley	17	1.3	11-19	3	Shepardspurse
S. Yuma Valley	11	1.5	6-25	1	Purslane





## Applications to Western Growers Assn.

- 21000 acres
- 12 operations
- 130 acres-smallest
- 7000 acres-largest

## Kerb Chemigation Applicators



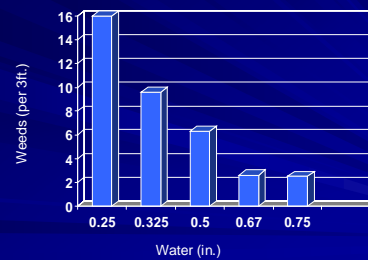
## Kerb Chemigation Guidelines

- Rate: 1 to 2 lbs.
- Mixing: 3 gallons of water per pound
- Moisture: Min. 0.75in.
- Duration: 1 to 2 hours



		Best Activity	Worst Activity
Prefar		Sprinklers High Water Volume	Furrow Low Water Volume
Kerb		Furrow Low Water Volume	Sprinklers High Water Volume

Prefar- Water interaction









Dacthal



6F                      75W

A blue-bordered slide titled "Dacthal". It contains two inset images. The left image shows a white plastic jug pouring a white liquid into a grey bucket. The right image shows a person using a spray nozzle to apply a substance to the ground. Below the images are the labels "6F" and "75W".