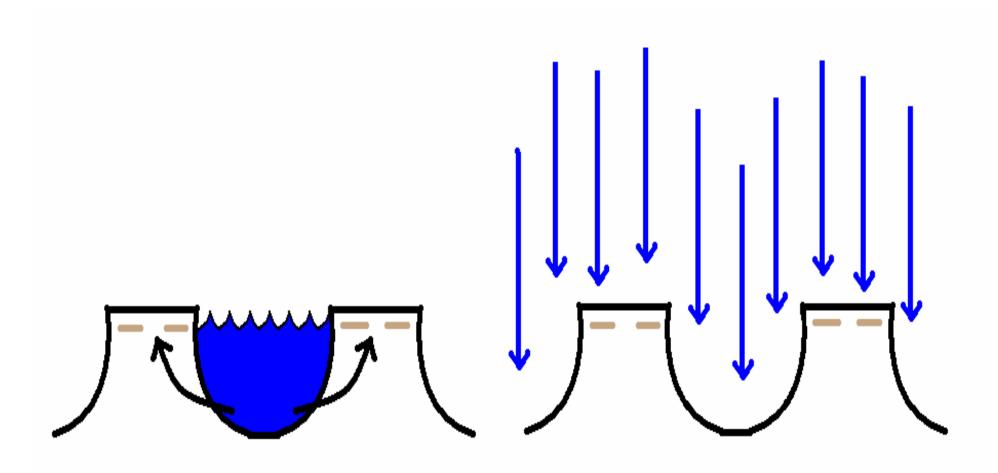
## Weed Control Barry Tickes, University of AZ

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



### **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



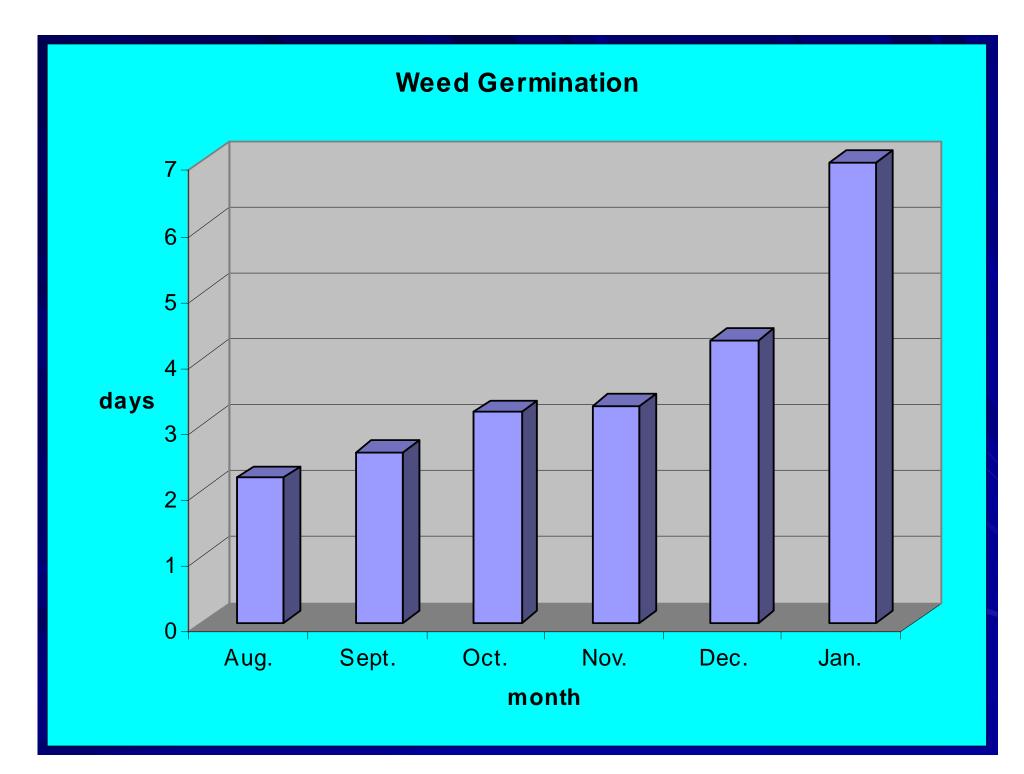
Furrow

Sprinkler



## Kerb Delayed Application

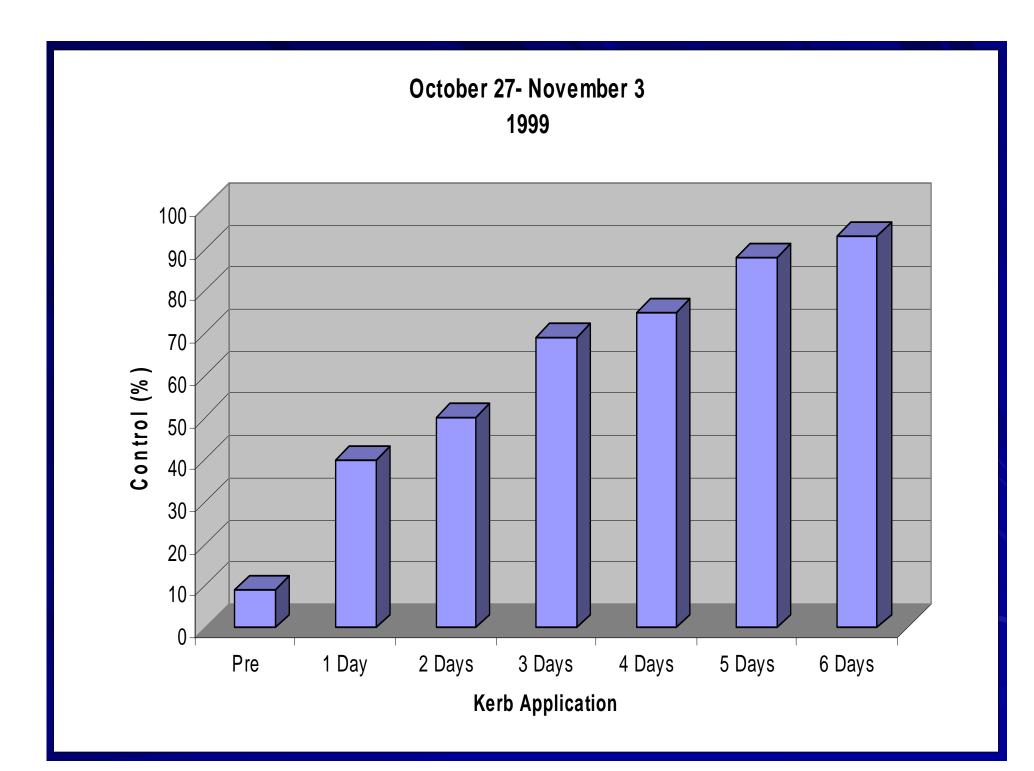
Apply after sprinklers have started to avoid leaching of the herbicide before weeds germinate

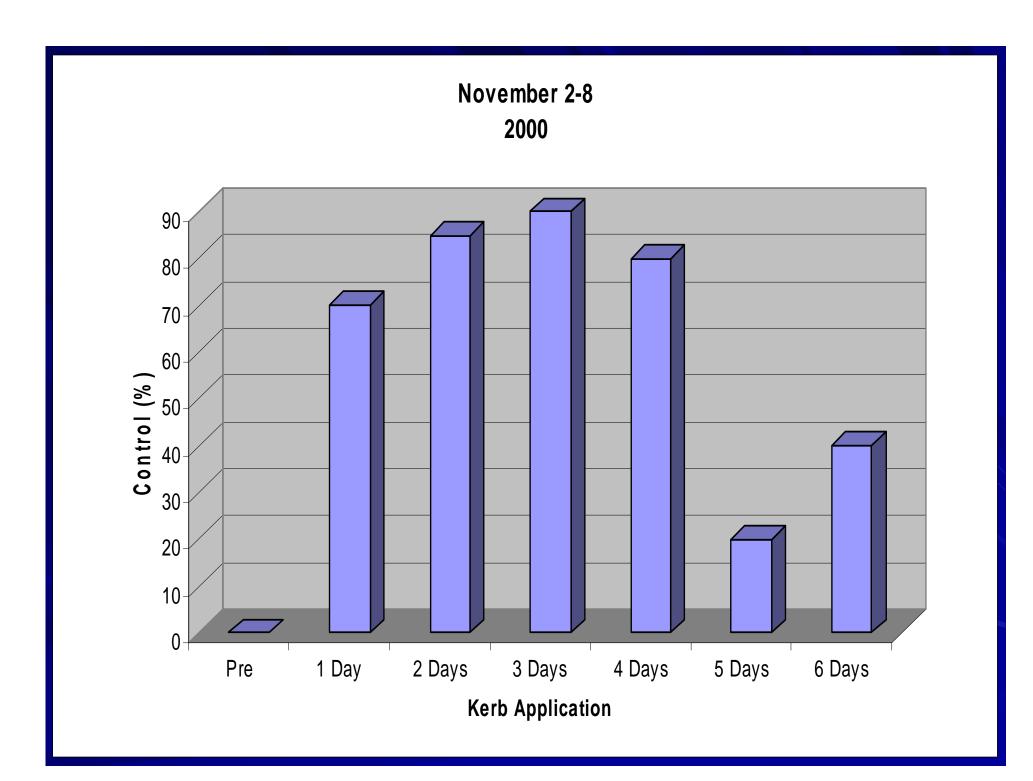


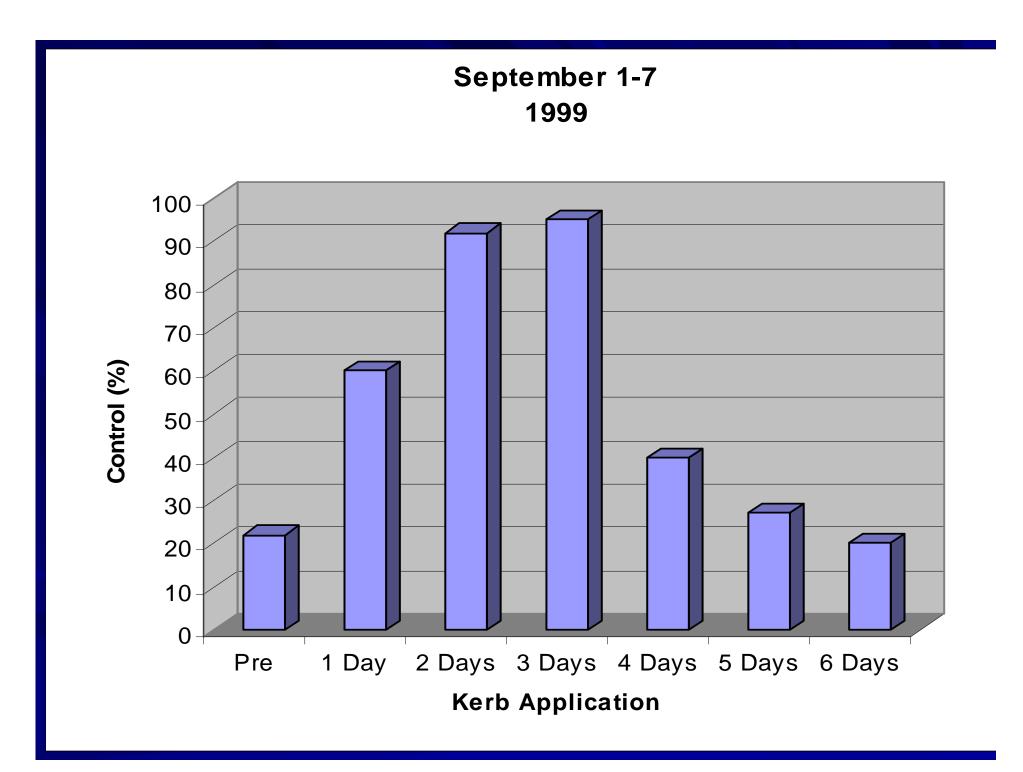


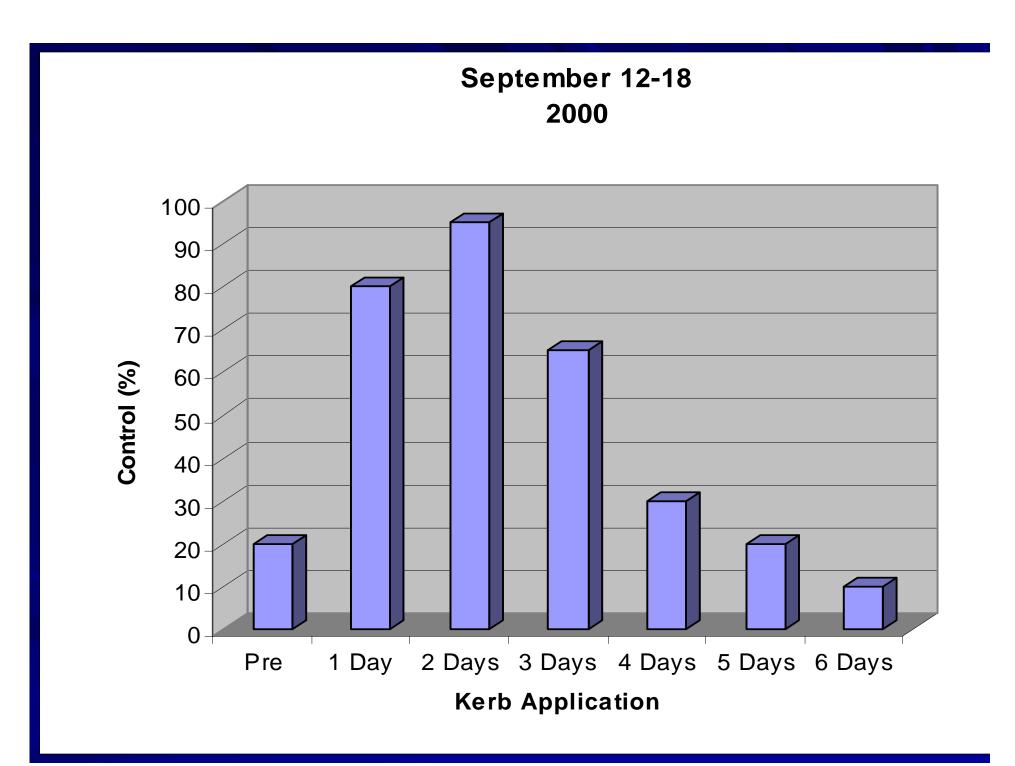


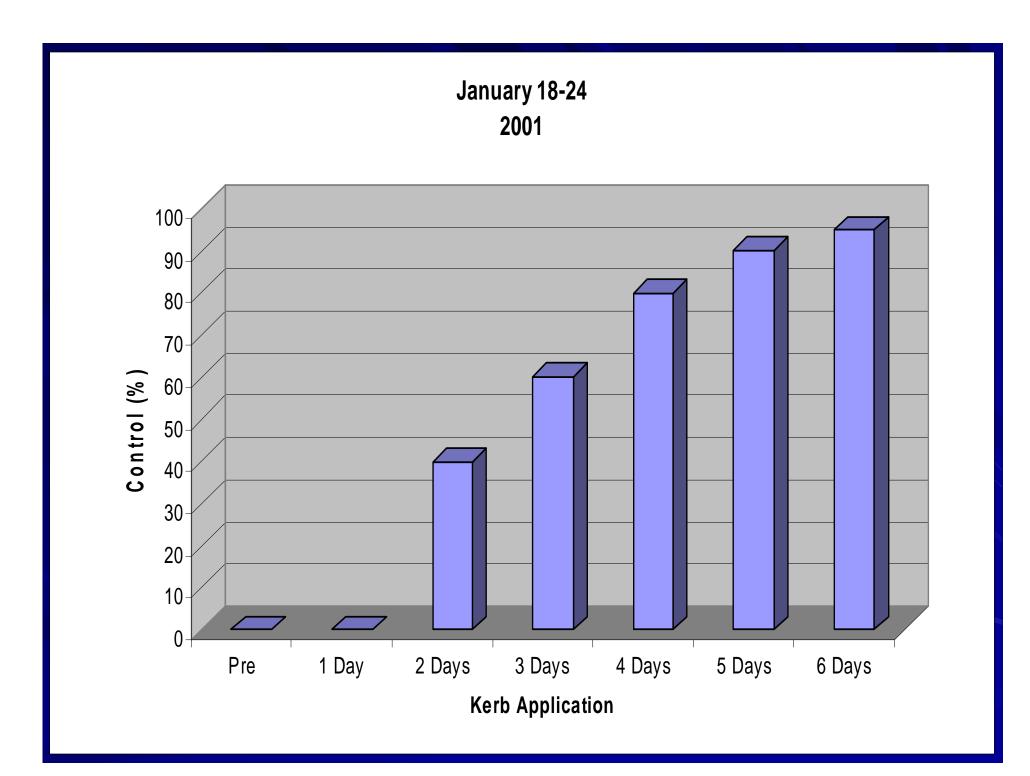












## Factors Effecting Weed Germination

Species
Depth
Environmental Conditions
Irrigation Type and Amount
Soil Type
Other



# 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

#### Snyder's Kerb Application Method (SKAM)



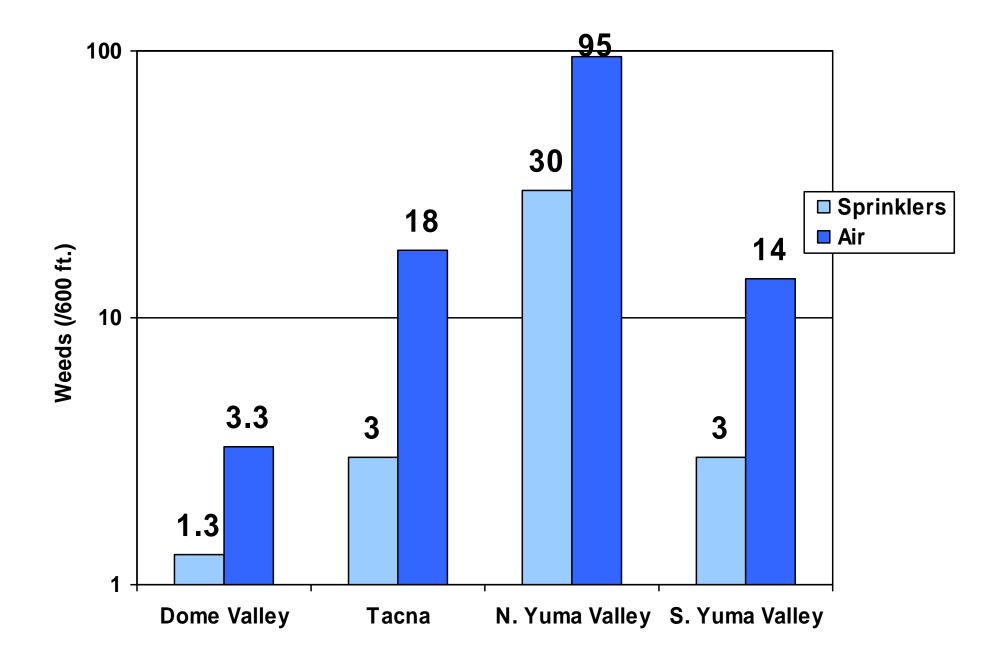


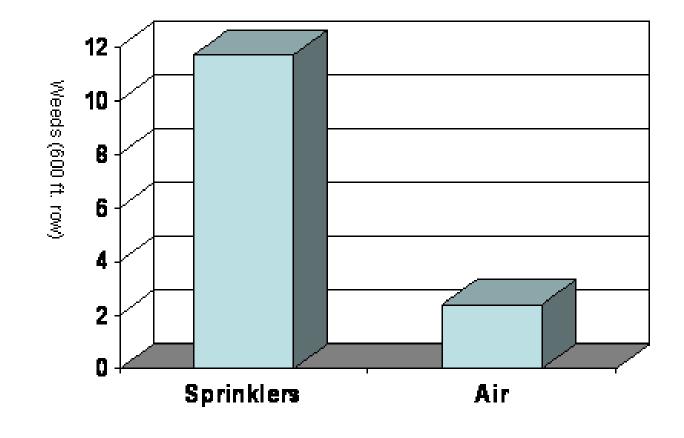
# Aerial vs. Chemigation



#### 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**

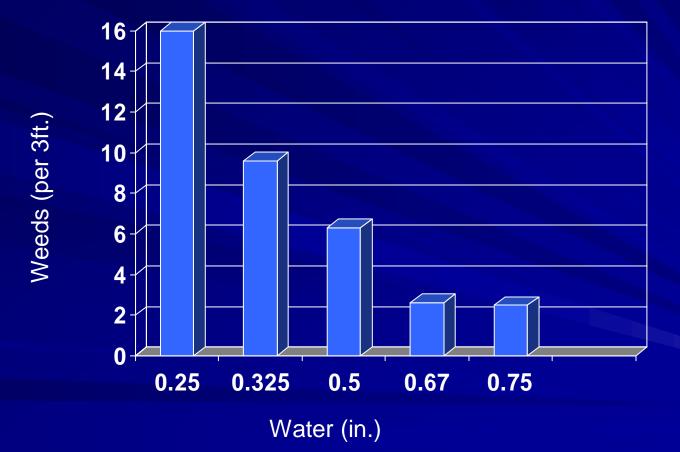
Rate:
Mixing:
Moisture:
Duration:

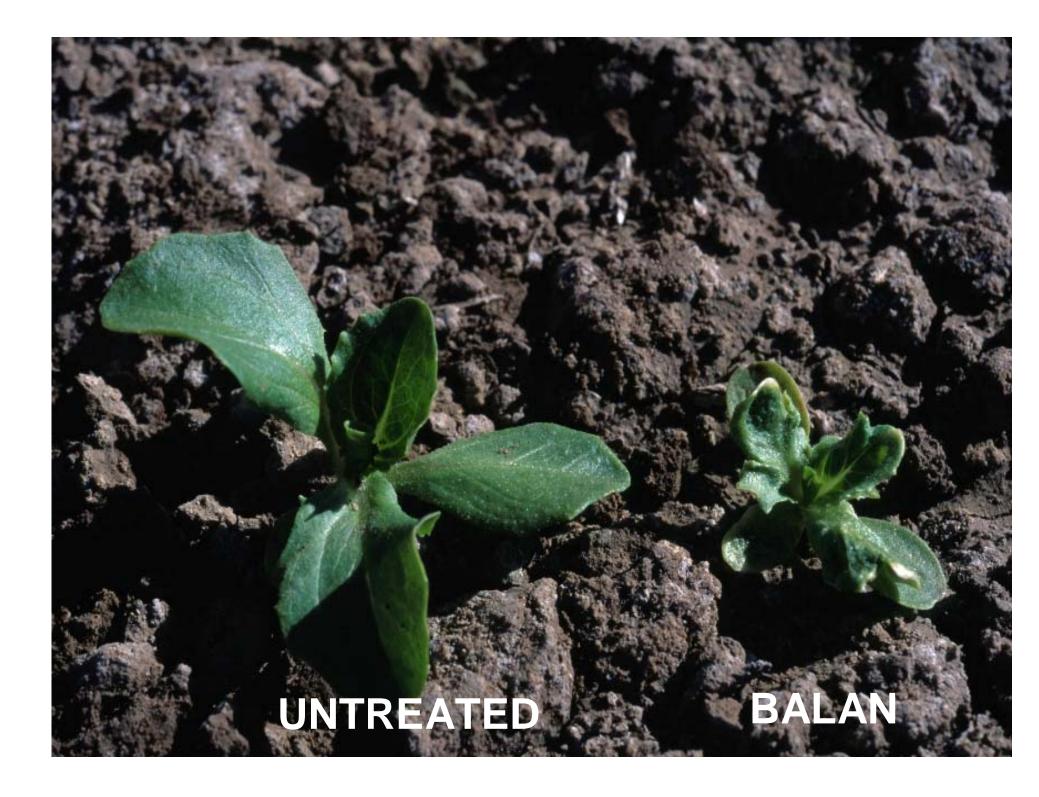
1 to 2 lbs.
3 gallons of water per pound
Min. 0.75in.
1 to 2 hours



	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



