

White Rot (*Sclerotium cepivorum*)  
14,000+ infested acres in the  
San Joaquin Valley

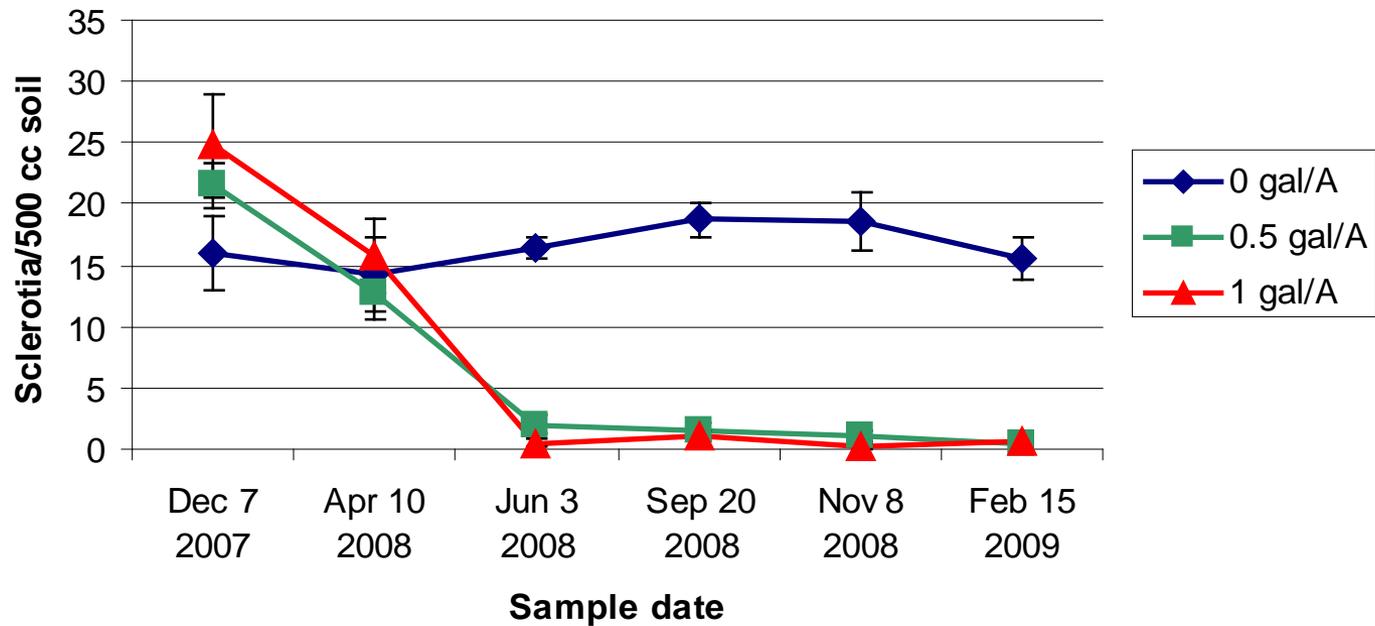


Mike Davis, UC Davis

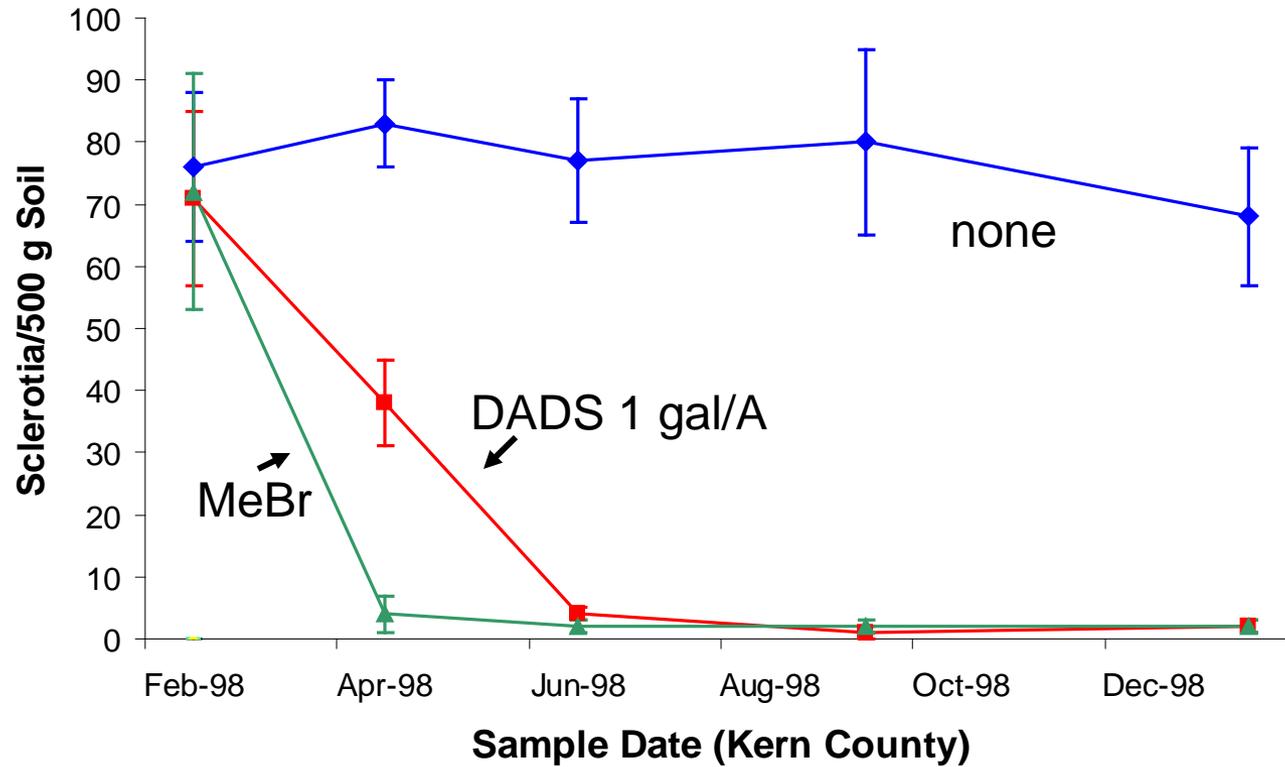
## DADS (diallyl disulfide)

- Apply when soil temperatures are 50-70 F
- In the San Joaquin Valley, apply fall or spring
- 90% reduction of sclerotia
  1. helps prevent field to field and farm to farm spread
  2. may be necessary in heavily infested fields to optimize efficacy of fungicides

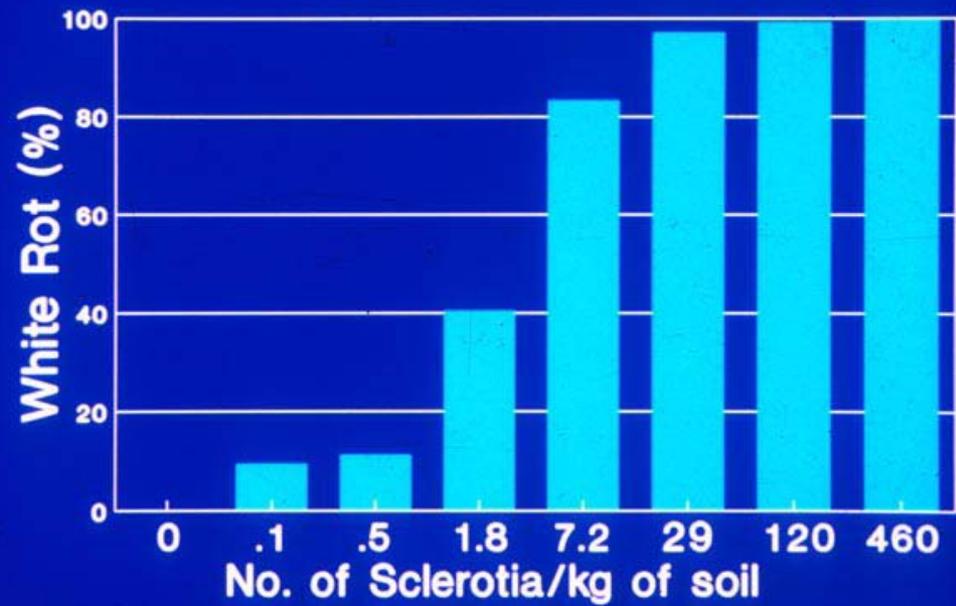
## Effect of DADS on Survival of Sclerotia of *Sclerotium cepivorum*

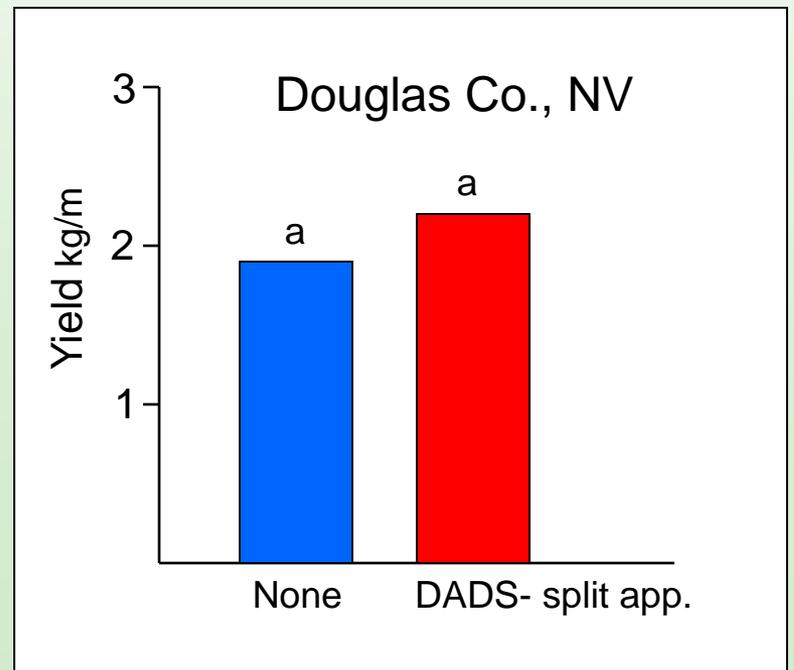
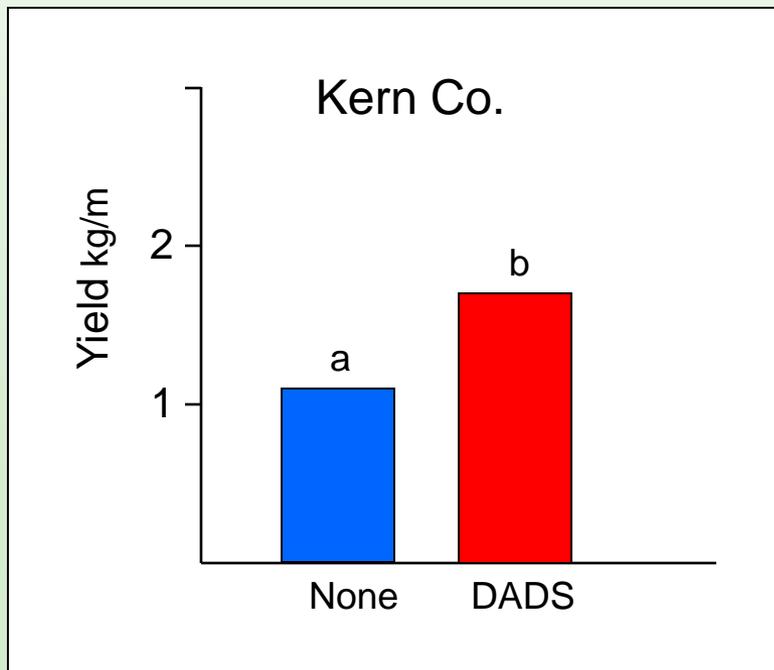
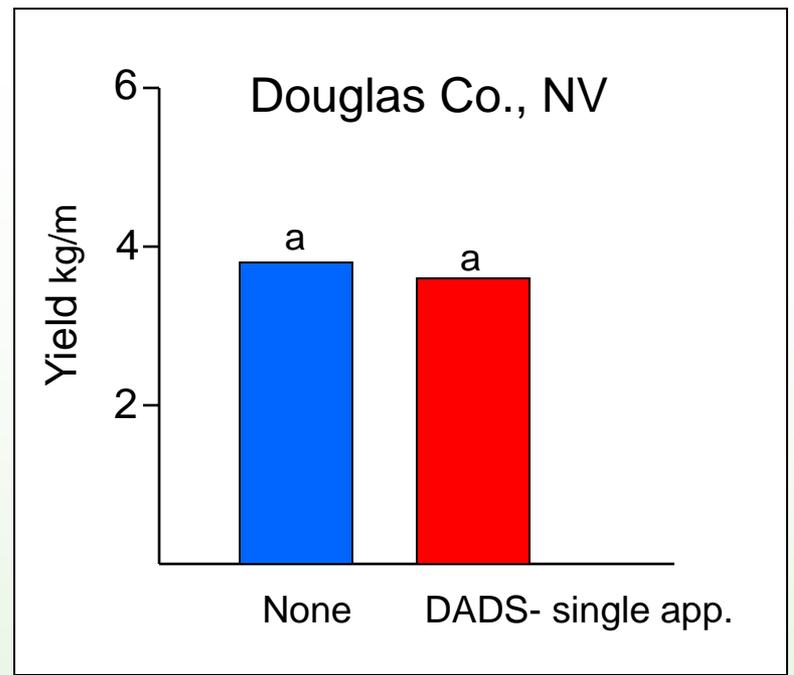
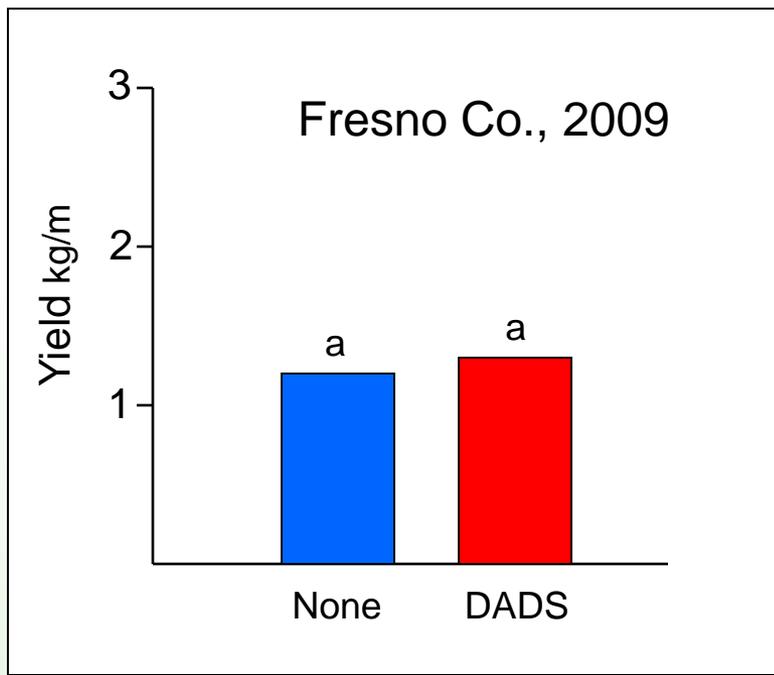


## DADS (single application) and Methyl Bromide



## Inoculum Densities of *Sclerotium cepivorum*



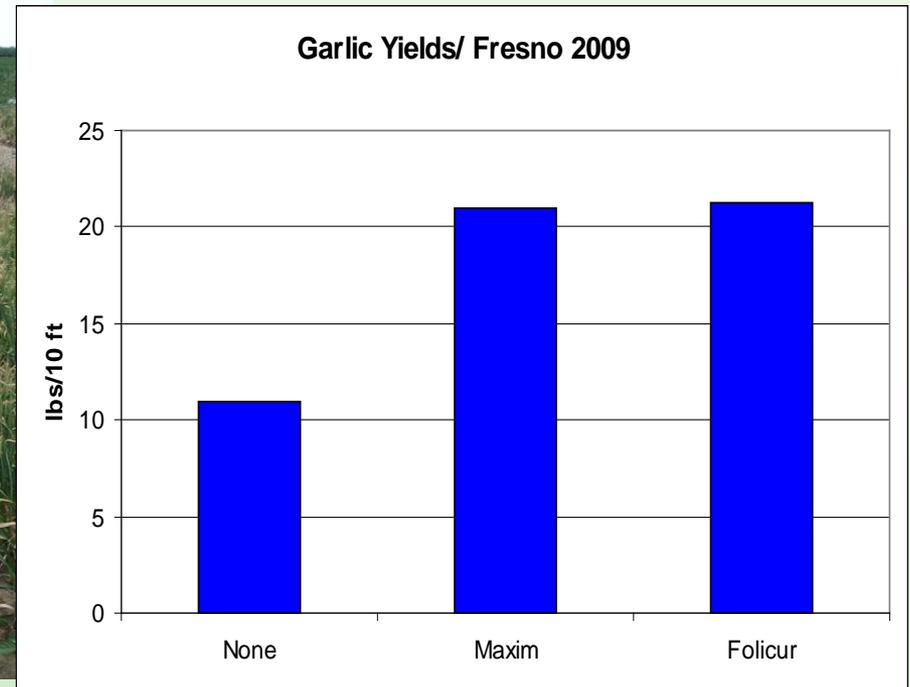


## Conclusions

- A single application of DADS can result in >90% sclerotia mortality
- Profitable yields may not be possible following DADS treatment, at least in heavily infested fields

## Fungicides

- Folicur (tebuconazole) applied to the seed furrow at 20.5 fl oz in a 4 inch band.
- Maxim (fludioxonil) applied to the seed at 0.16 fl oz product per cwt or seed furrow at 1.7 pts/acre



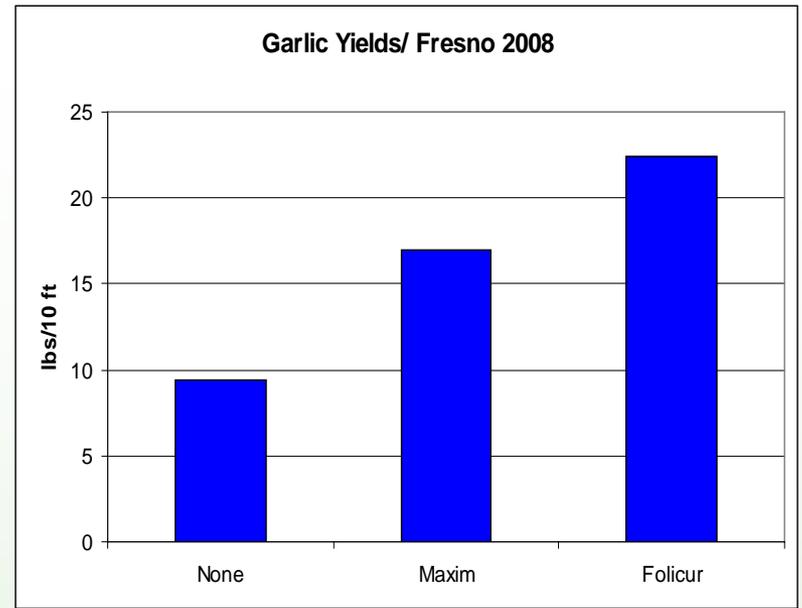
## 2008 Trial

None

Switch 1 oz/1000 feet of row

Endura 6.8 oz per treated acre

Folicur 20.5 fl oz per acre in a 4 in band



1. Water

2. 1 X

3. 2 X

4. 4 X

5. 10 X

Make furrow, apply fungicide, plant seed, cover with soil

6. 1 X

7. 2 X

Make furrow, apply fungicide, cover with  $\frac{1}{4}$  in. soil, plant, cover

8. 1 X

9. 2 X

Apply fungicide, mix (incorporate), make furrow, plant seed, cover

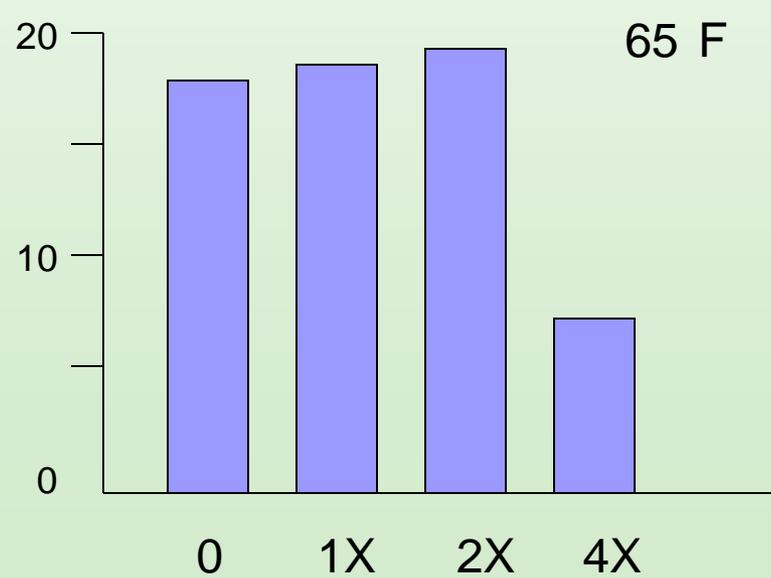
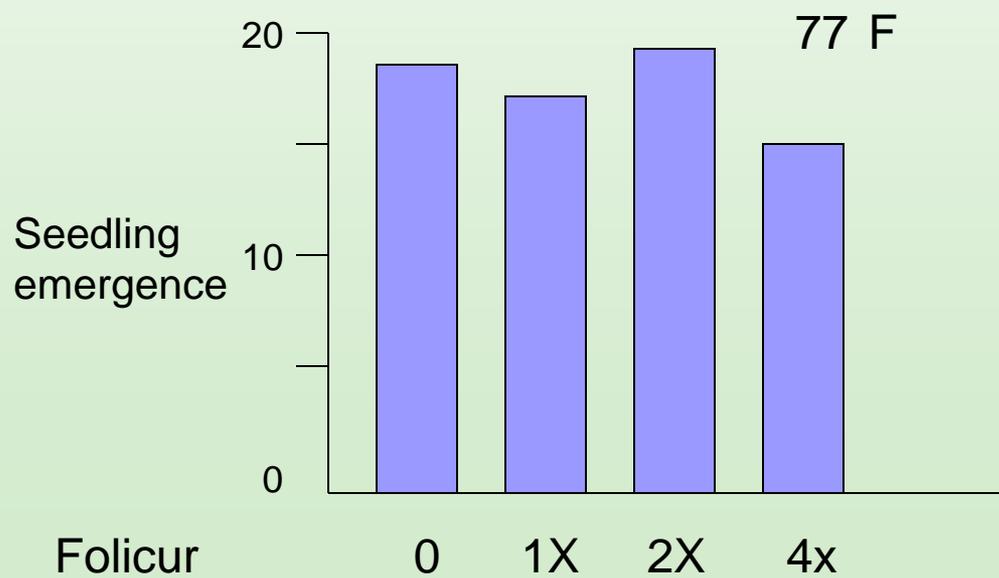
10. 1X

11. 2X

12. 3X

13. 4X

Make furrow, plant seed, apply fungicide, cover with soil



# Folicur applications

Water

1X

2X

water

4X

10x



# Basal Rot

(*Fusarium oxysporum* f. sp. *cepae*)

