

Control of White Rot in Onions with Fungicides

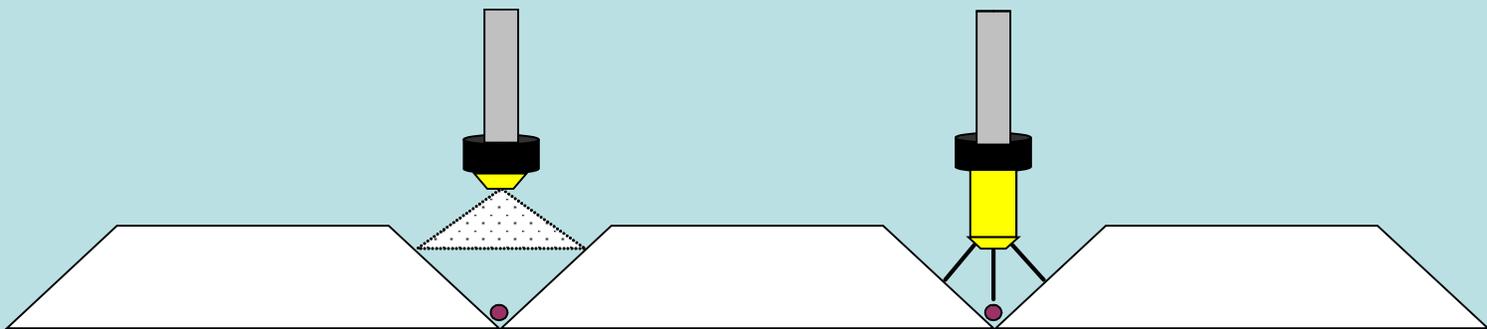


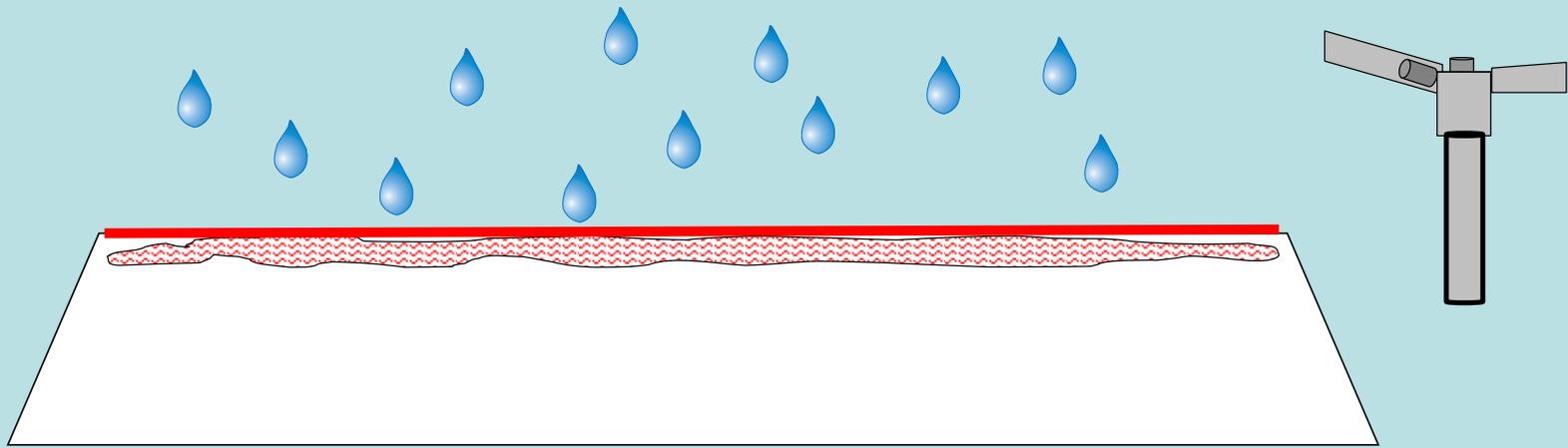
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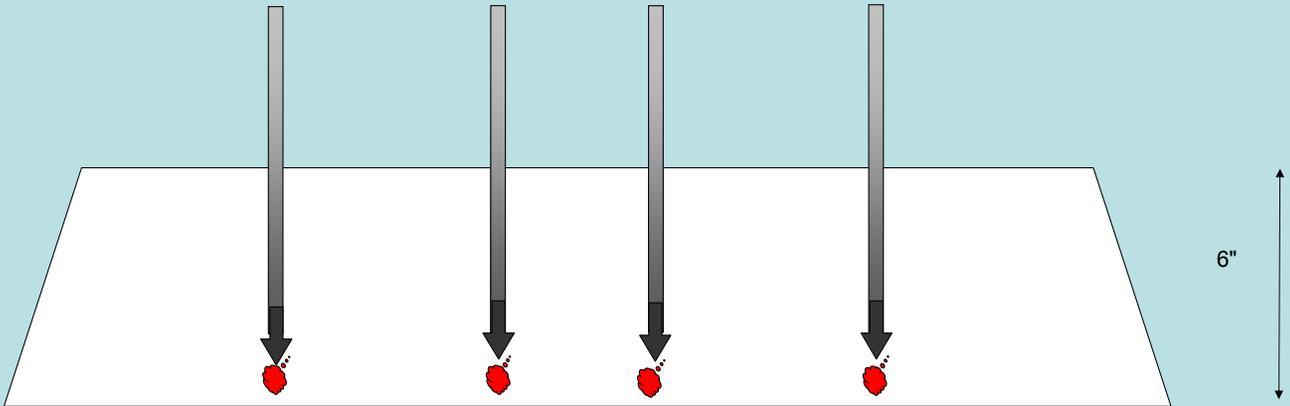
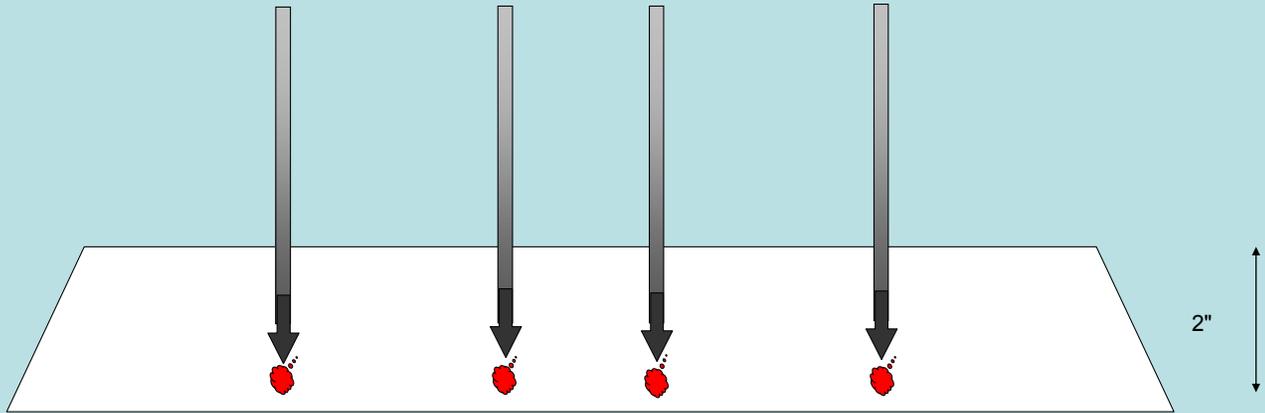
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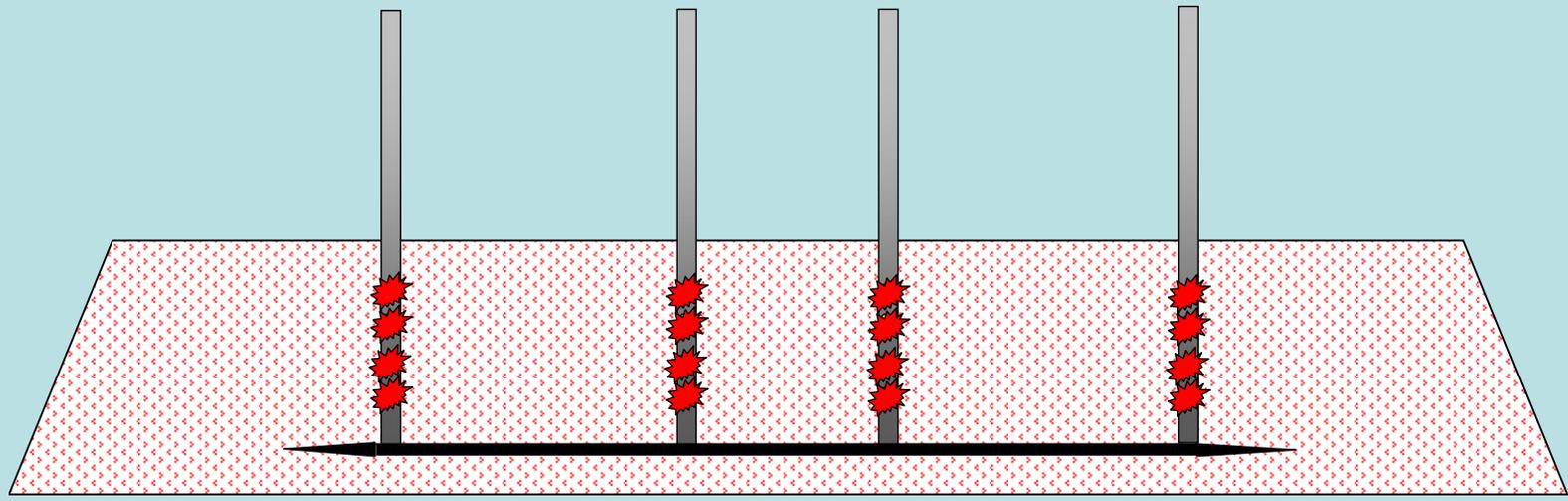
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In Seed-Furrow Applications

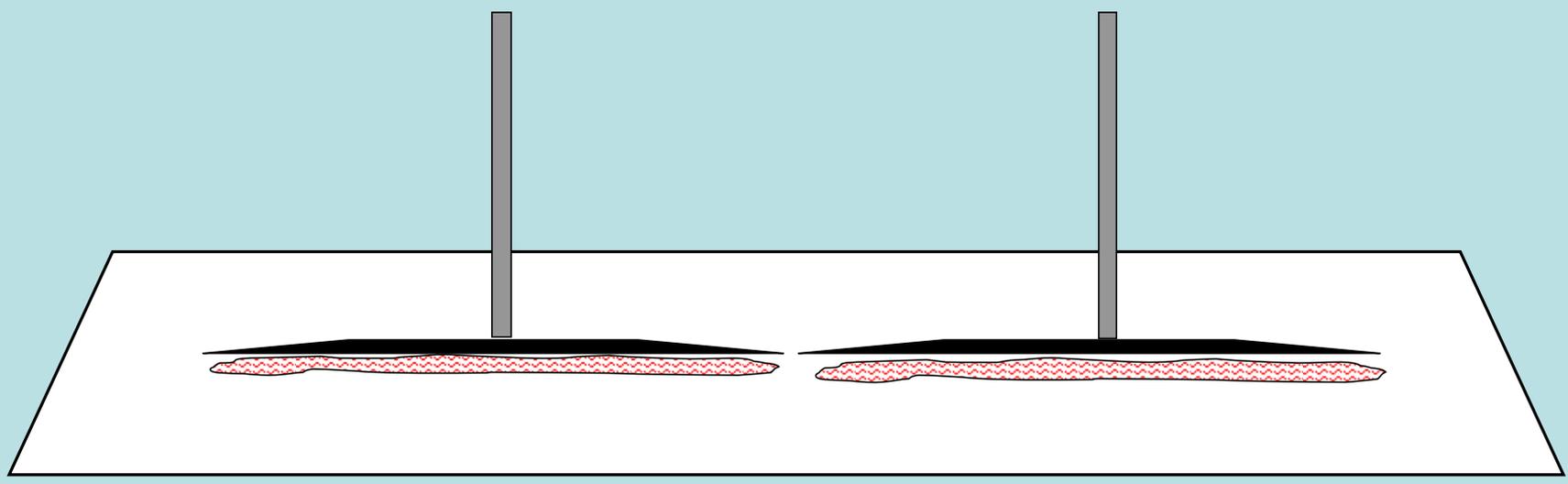








12"



2"

2004 Onion Fungicide White Rot Trial

| No. | Fungicide | Application Method | Rate | Percent Control |
|-----|-----------|--|----------------------------------|-----------------|
| 1 | Folicur | In seed furrow at planting | 1.7 pt/A | 65 |
| 2 | Folicur | In seed furrow at planting | 3.4 pt/A | 60 |
| 3 | Folicur | In seed furrow at planting Broadcast before irrigation 60 DAP | 1.7 pt/A 1.7 pt/A | 60 |
| 4 | Folicur | In seed furrow at planting Broadcast before irrigation 60 DAP Broadcast before irrigation 90 DAP | 1.7 pt/A 1.7 pt/A 1.7 pt/A | 85 |
| 5 | Folicur | Spray blade @ 2" | 1.7 pt/A | 53 |
| 6 | Folicur | Spray blade @ 2" | 3.4 pt/A | 59 |
| 7 | Folicur | Broadcast prior to first irrigation | 1.7 pt/A | 34 |
| 8 | Folicur | Broadcast prior to first irrigation | 1.7 pt/A | 22 |
| | Folicur | Broadcast before irrigation 60 DAP | 1.7 pt/A | |
| 9 | Folicur | Broadcast prior to first irrigation | 1.7 pt/A | 39 |
| | Folicur | Broadcast before irrigation 60 DAP | 1.7 pt/A | |
| | Folicur | Broadcast 90 DAP | 1.7 pt/A | |

2004 Onion Fungicide White Rot Trial

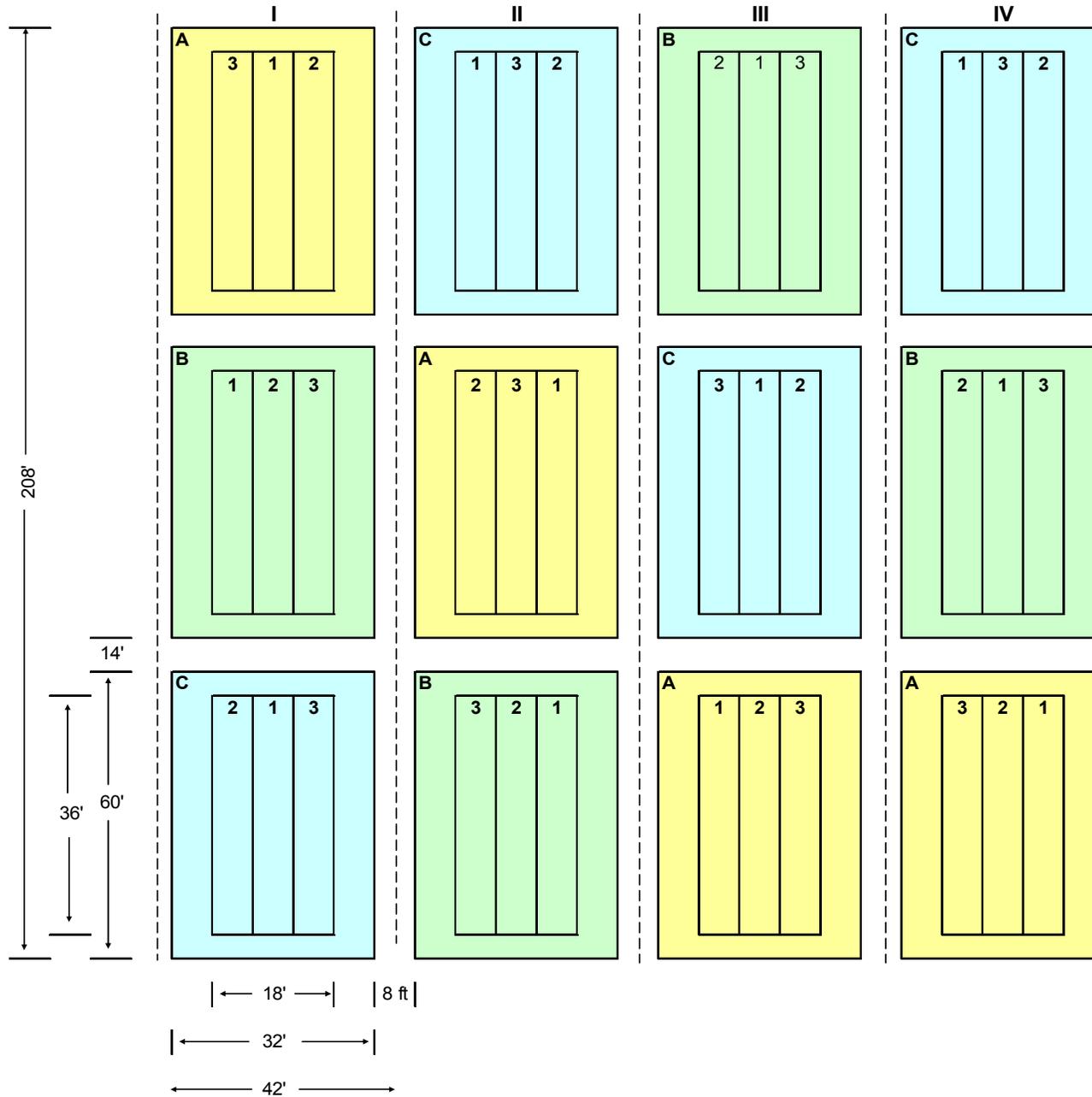
| No. | Fungicide | Application Method | Rate | Percent Control |
|-----|-----------|------------------------------------|-------------|-----------------|
| 10 | Maxim | In seed furrow at planting | 0.125 pt/A | 45 |
| 11 | Maxim | In seed furrow at planting | 0.25 pt/A | 39 |
| 12 | Maxim | Spray blade @ 2" | 0.125 pt/A | 0 |
| 13 | Maxim | Spray blade @ 2" | 0.25 pt/A | 18 |
| 14 | Maxim | coated seed | 0.08 oz/cwt | 36 |
| 15 | Maxim | coated seed | 0.08 oz/cwt | 31 |
| | Apron | coated seed | 0.64 oz/cwt | |
| 16 | Folicur | In seed furrow at planting | 1.7 pt/A | 78 |
| | Maxim | coated seed | 0.08 oz/cwt | |
| 17 | Folicur | Spray blade @ 2" | 1.7 pt/A | 29 |
| | Maxim | coated seed | 0.08 oz/cwt | |
| 18 | Maxim | coated seed | 0.08 oz/cwt | 26 |
| | Folicur | Broadcast before irrigation 60 DAP | 1.7 pt/A | |

2004 Onion Fungicide White Rot Trial

| No. | Fungicide | Application Method | Rate | Percent Control |
|-----|-----------|------------------------------------|---------|-----------------|
| 19 | Endura | In seed furrow at planting | 10 oz/A | 52 |
| 20 | Endura | Spray blade @ 2" | 10 oz/A | 25 |
| 21 | Endura | Broadcast | 10 oz/A | 39 |
| 22 | Endura | Broadcast | 10 oz/A | 43 |
| | Endura | Broadcast before irrigation 60 DAP | 10 oz/A | |
| 23 | | Untreated | | |
| 24 | | Untreated | | |

| No. | Fungicide | Application Method | Rate | % White Rot Control* |
|-----|-------------------|---|------------------------|----------------------|
| 1 | Maxim | Pelleted Seed Treatment | .08 oz/cwt | 6 |
| 2 | Maxim | Pelleted Seed Treatment | .16 oz/cwt | 0 |
| 3 | Maxim | Pelleted Seed Treatment | .24 oz/cwt | 0 |
| 4 | Maxim | In seed furrow | .125 pt/a | 8 |
| 5 | Maxim | In seed furrow | .25 pt/a | 12 |
| 6 | Folicur | In seed furrow | 1.7 pt/a | 84 |
| 7 | Maxium Folicur | Pelleted Seed Treatment In seed furrow | .08 oz/cwt 1.7 pt/a | 89 |
| 8 | Folicur | Drench at planting | 1.7 pt/a | 32 |
| 9 | Endura | In seed furrow | 10 oz/a | 63 |
| 10 | Endura | In seed furrow | 20 oz/a | 80 |
| 11 | Endura | Broadcast at planting | 10 oz/a | 14 |
| 12 | Maxium Endura | Pelleted Seed Treatment In seed furrow | .08 oz/cwt 10 oz/a | 66 |
| 13 | Switch | In seed furrow | 14 oz/a | 32 |
| 14 | Maxim Switch | Pelleted Seed Treatment In seed furrow | .08 oz/cwt 14 oz/a | 23 |
| 15 | Botran | In seed furrow | 102 oz/a | 29 |
| 16 | Maxim Botran | Pelleted Seed Treatment In seed furrow | .08 oz/cwt 102 oz/a | 29 |
| 17 | Rovral | In seed furrow | 4 lb/a | 30 |
| 18 | Maxim Rovral | Pelleted Seed Treatment In seed furrow | .08 oz/cwt 4 lb/a | 12 |

4615 DADS

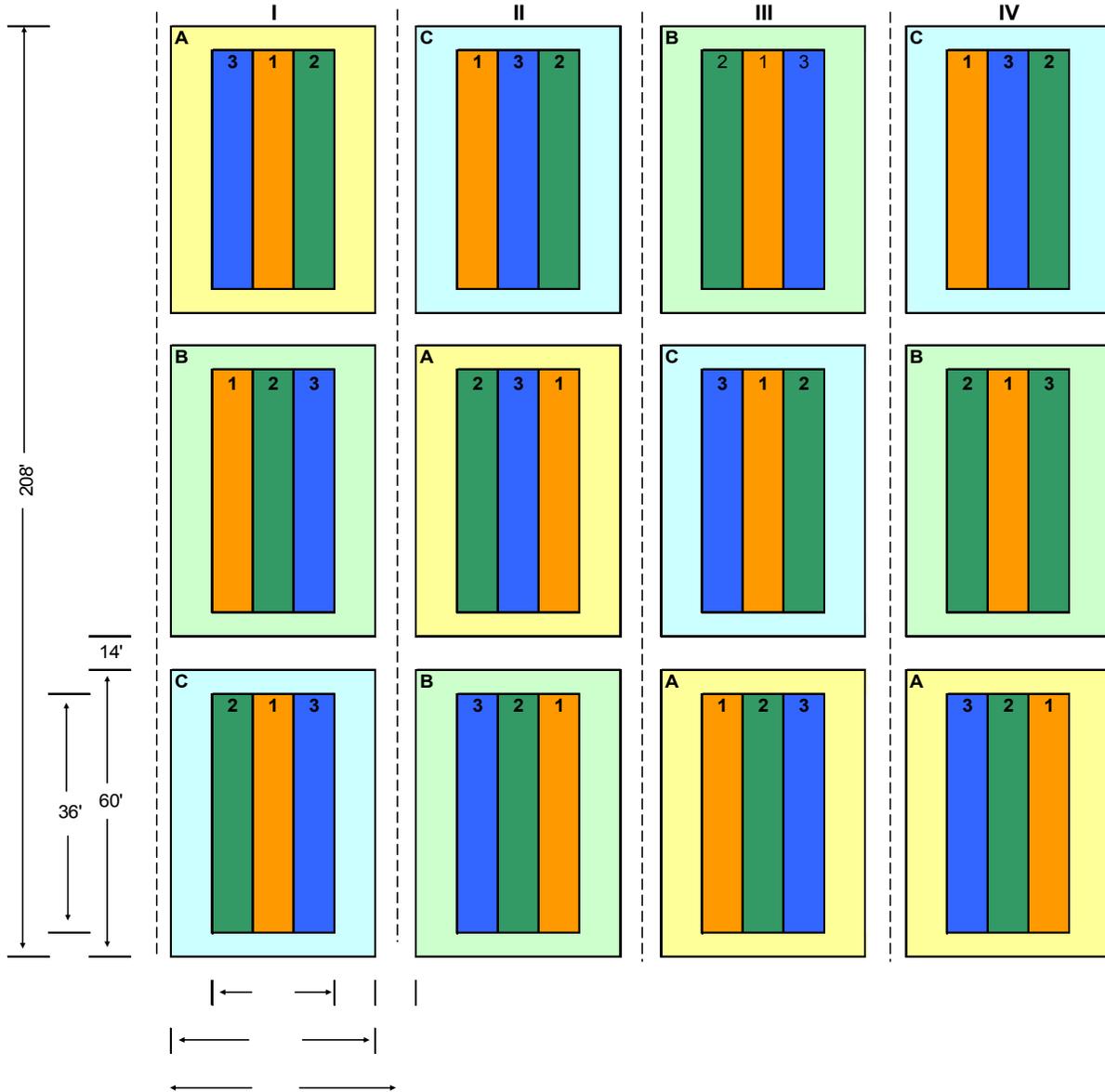


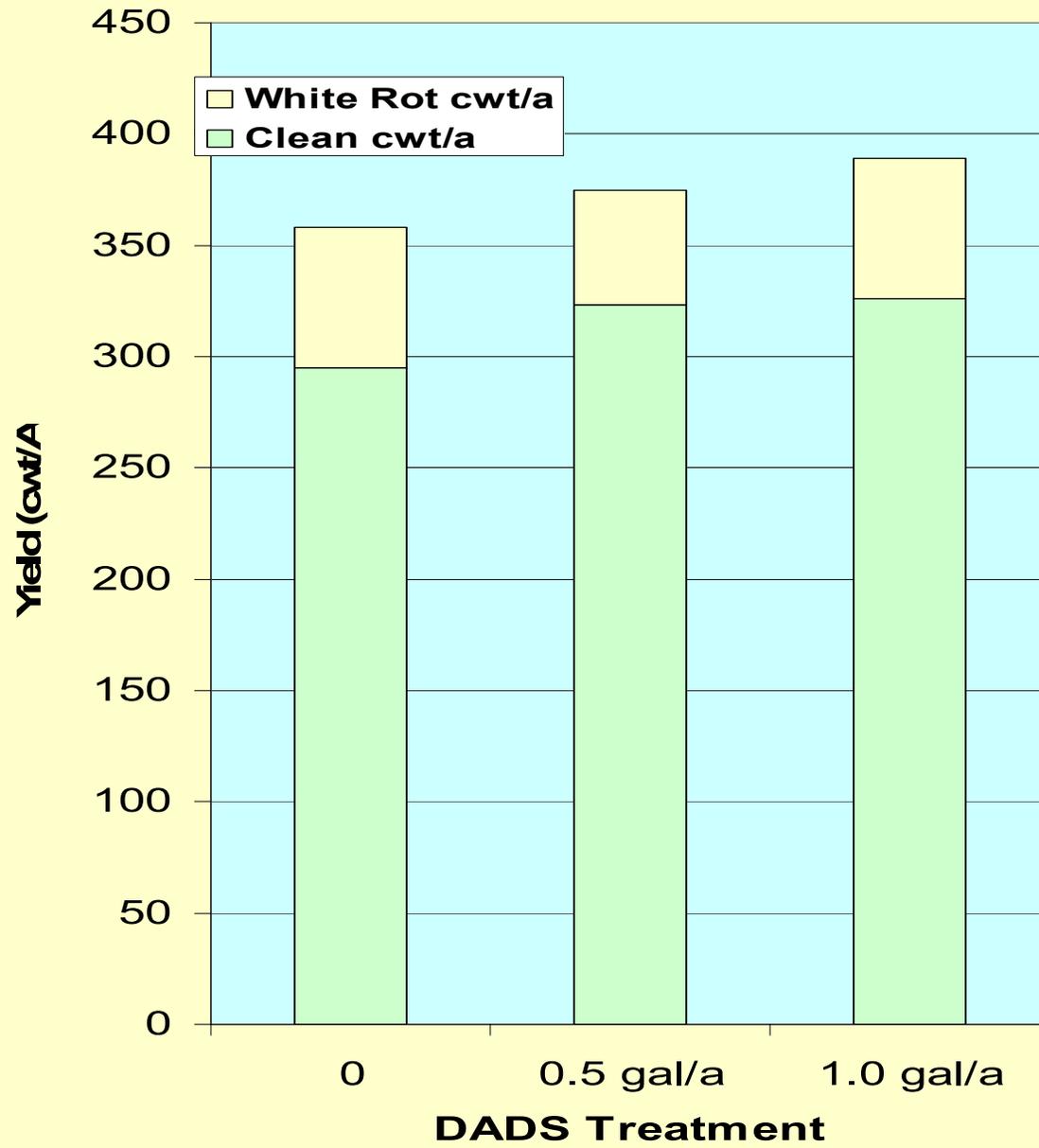
LEGEND

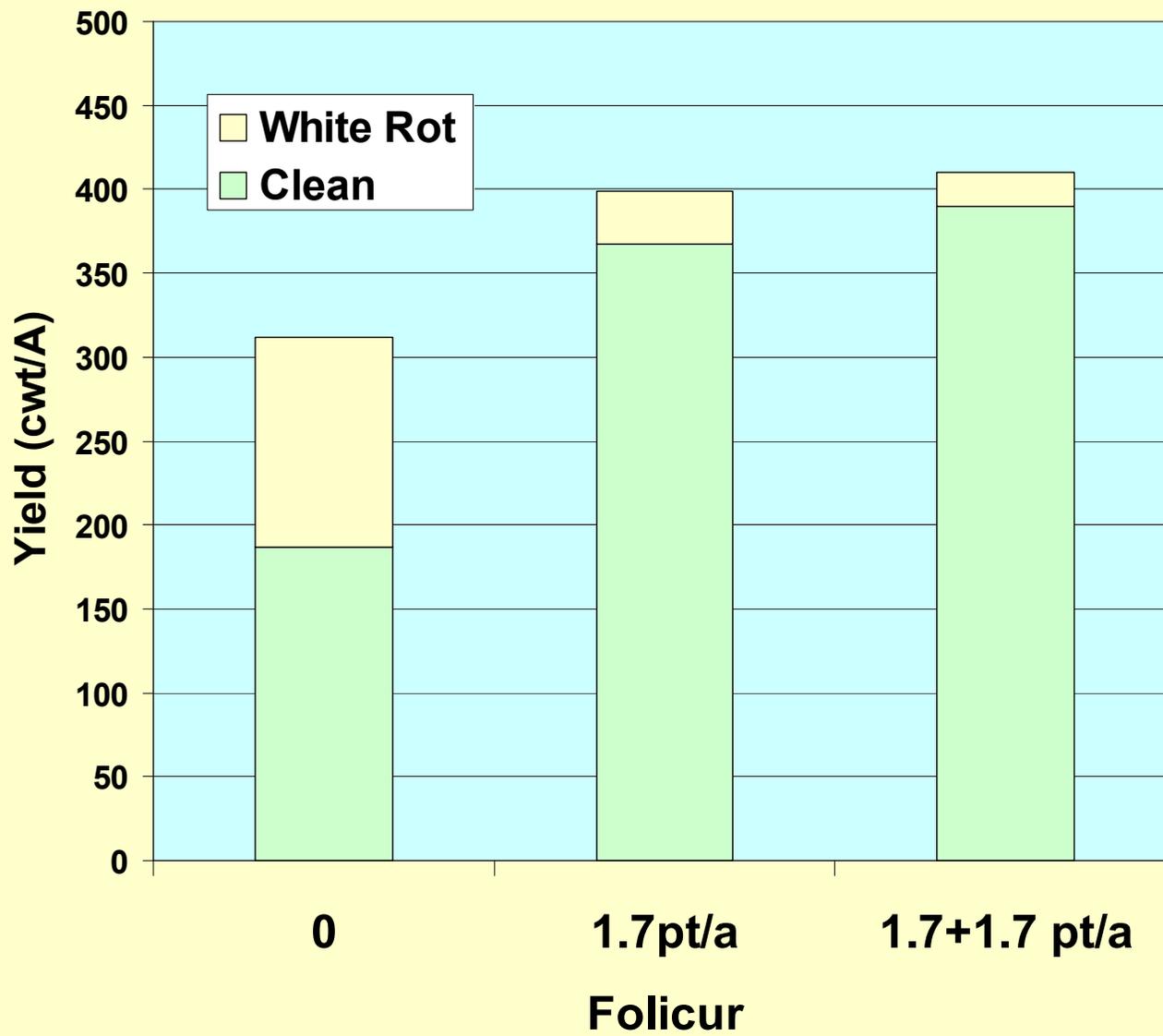
DADS Treatments

- A. None
- B. Alli-up 0.5 gal/a
- C. Alli-up 1.0 gal/a

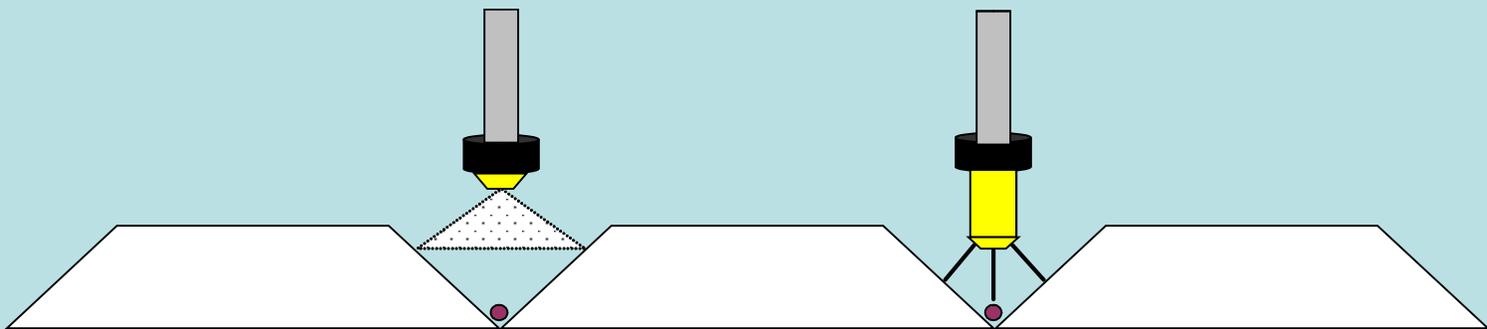
4615 DADS







In Seed-Furrow Applications



Conclusions

- Fungicides show great promise for white rot control, particularly Folicur... but also others and possible combinations.
- Fungicide placement appears critical.
- Need to review economics and registration status.
- Need to evaluate on commercial scale in less infested fields.
- May fundamentally change industry outlook.