

Aphid Banker Plant Production Decisions

| | | | | | |
|---|------|-------|-------|-------|-------|
| When aphids take 3 days to double the population | | | | | |
| Day Number | 0 | 3 | 6 | 9 | 12 |
| # of aphids | 5000 | 10000 | 20000 | 40000 | 80000 |
| When aphids take 6 days to double the population | | | | | |
| Day Number | 0 | 6 | 12 | 24 | 48 |
| # of aphids | 5000 | 10000 | 20000 | 40000 | 80000 |

500 *Aphidius colemani* need

250 female parasites
 *300 eggs/fem in 3 days
 =75000 young aphids to lay those eggs in

Banker Plant Production Decisions

- G Grow more banker plants from your clean aphid stock
- B Buy fresh banker plant aphids and cage them for a couple of weeks
- C Coast: Let the current banker plants run their course but do not grow or buy more
- D Discontinue the banker plants. Remove them from the greenhouse

| | | | | | | |
|----------------------|----------|-----------|----------|-----------|-----------|-----------|
| Monday Date | 2/3/2014 | 2/17/2014 | 3/3/2014 | 3/17/2014 | 3/31/2014 | 5/12/2014 |
| Week Number | 6 | 8 | 10 | 12 | 14 | 20 |
| # Aphids per Blade | | | | | | |
| Predators seen (Y/N) | | | | | | |
| Parasites seen (Y/N) | | | | | | |
| Decision | | | | | | |

Troubleshooting Low Aphid Reproduction

- Aphids applied too thinly
- Temperatures too cold for efficient reproduction (low 60's or lower)
- Temperature too hot for aphids to thrive (high 80's and above)
- Plants waterstressed and not supporting the aphids
- Parasites found the aphids and suppressed them
- Predators found the aphids and suppressed them
- Aphids hosed off plants by watering staff
- A cat is licking aphids off plants



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