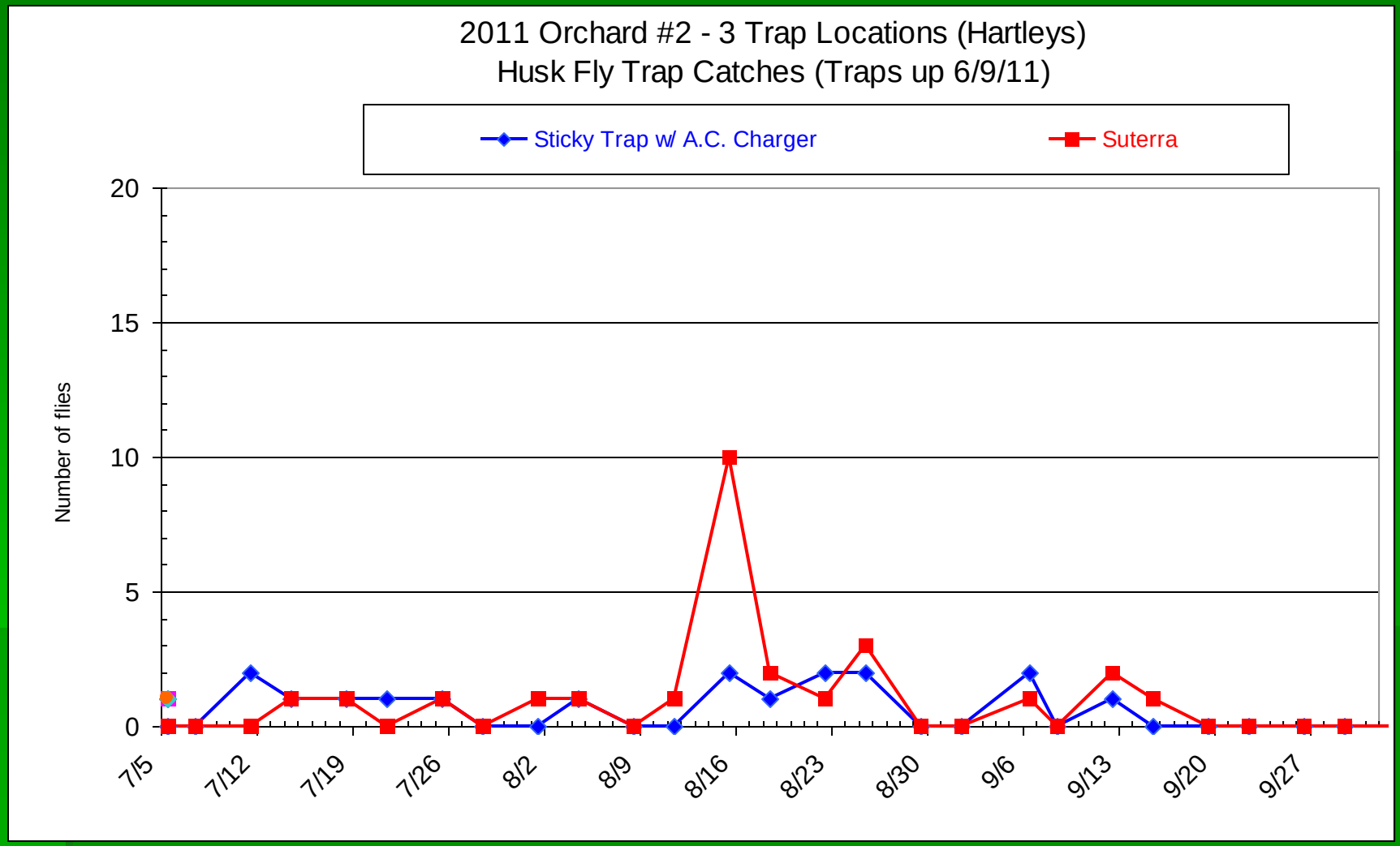
Walnut Husk Fly Management

- Richard Buchner – UCCE Tehama
- Cyndi Gilles – UCCE Tehama

Trap Limitations

- Traps are not good at predicting population size or damage potential
- No numerical treatment thresholds are available
- Traps will catch females with eggs allowing you to follow egg laying


2011 Orchard #2 - 3 Trap Locations (Hartleys)
Husk Fly Trap Catches (Traps up 6/9/11)
Sticky Trap w/ A.C. Charger
Suterra
Number of flies
20
15
10
5
0
7/5
7/12
7/19
7/26
8/2
8/9
8/16
8/23
8/30
9/6
9/13
9/20
9/27

Trap Placement

- Crucial when monitoring low population
- Influences how well traps catch flies
- Areas with previous damage “hot spots”
- Upper 1/3 of canopy on north side
- Cool, damp, shaded areas are preferred
- Black walnut trees are a good location

Timing

- Emerge as adults from June through September
- Every orchard is different – get traps up early

Trap Selection

- Supercharged AM NB (no bait in the stickem)
- Yellow sticky panels with vial/packet A.C.
- Traps differ in catch efficacy

Supercharger Attractant (ammonium carbonate)

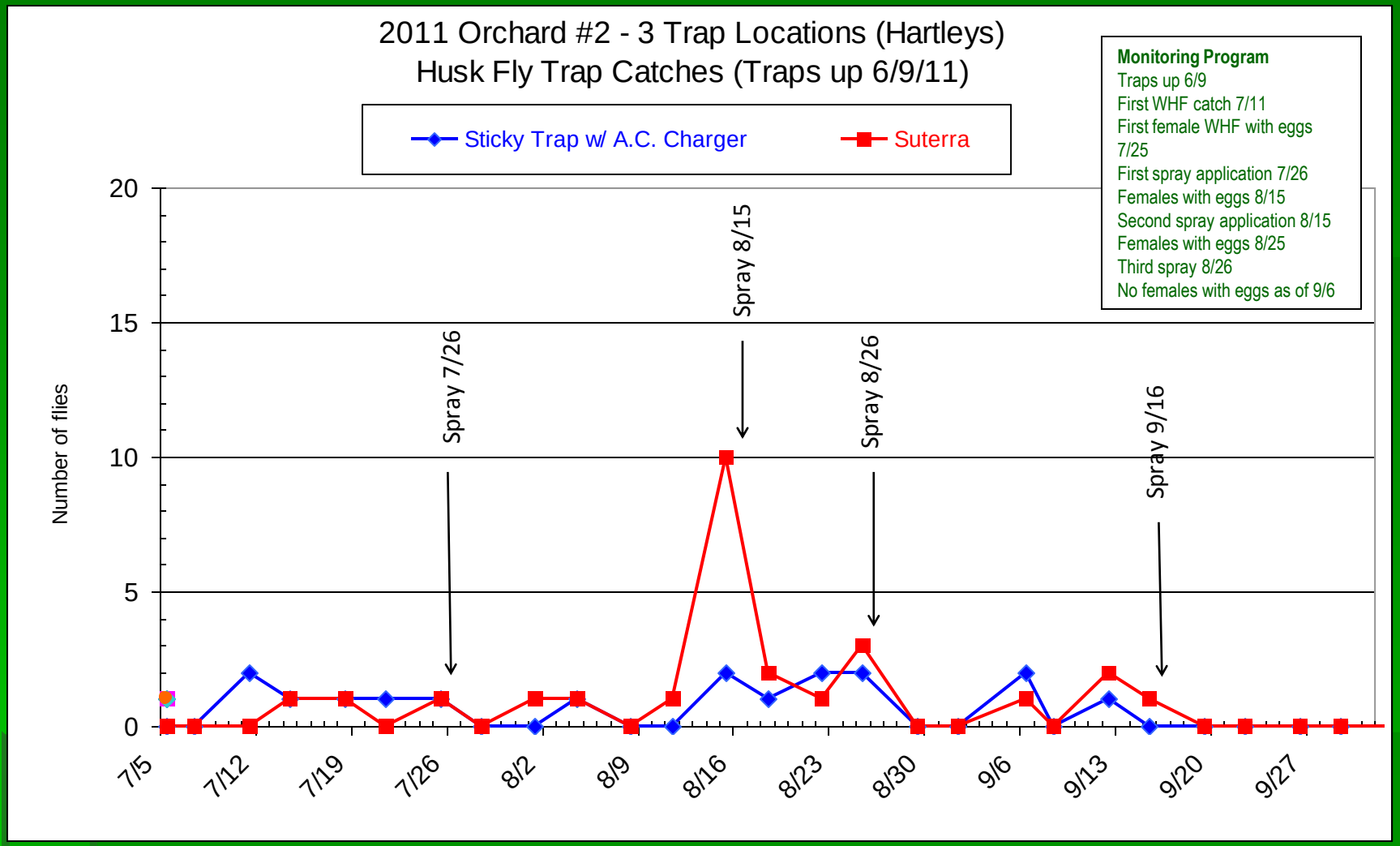
- Shake containers to break up surface film
- If you cannot smell a.c. – the supercharger is not working

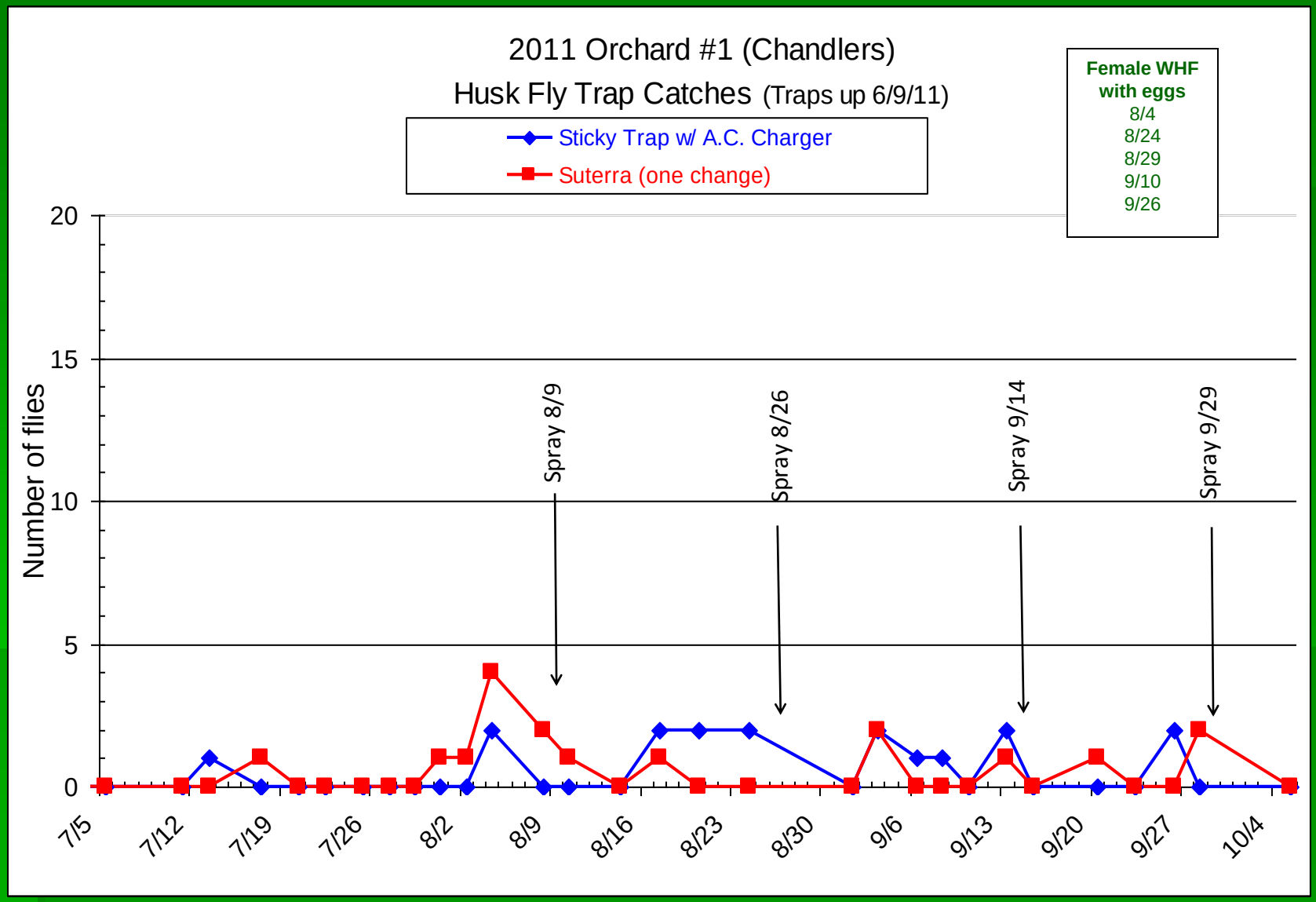
Trap Numbers

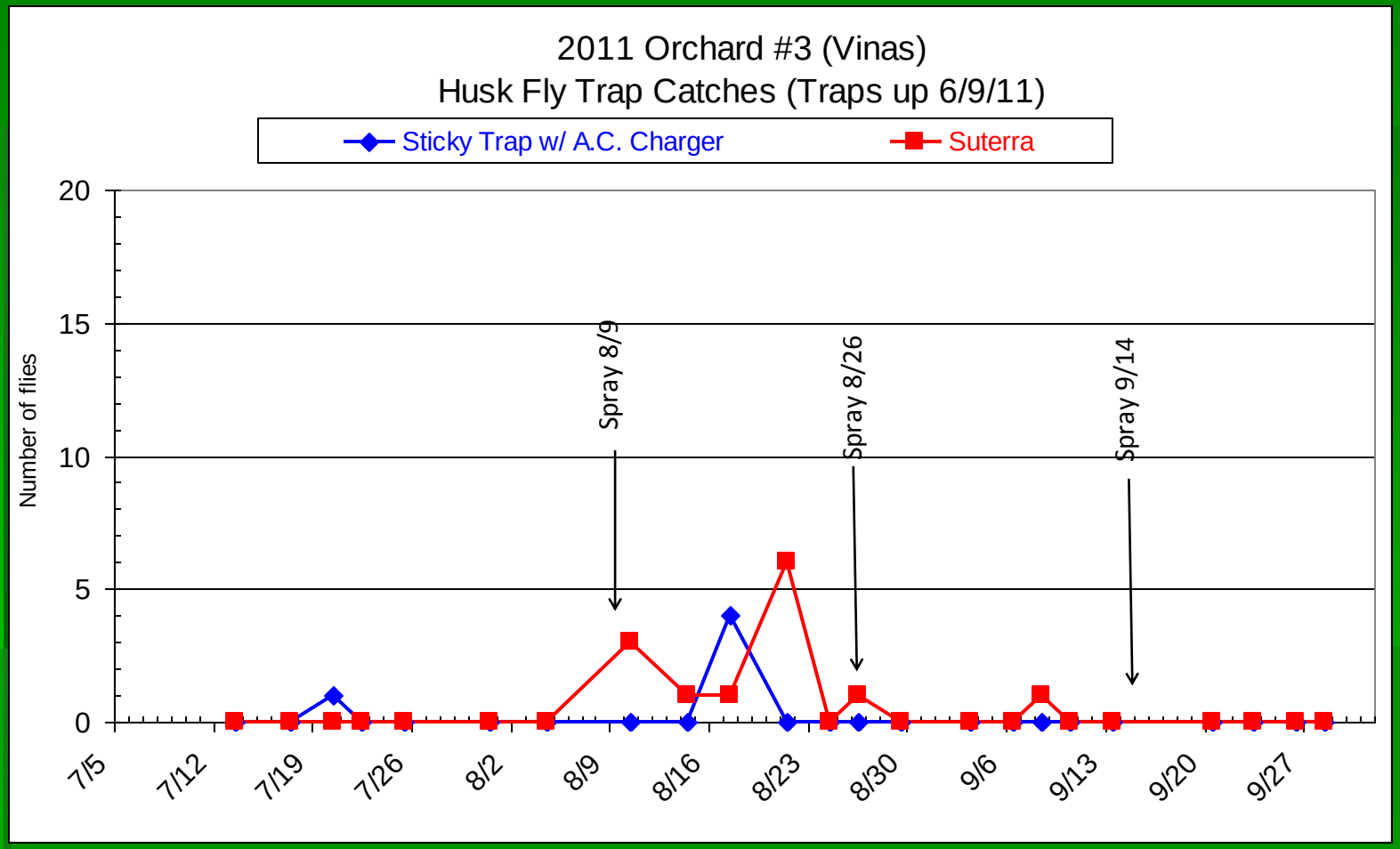
- Hot spots
- Small orchards at least 3 traps
- 30 to 100 acres – 1 trap per 10 acres
- Over 100 acres – 1 trap per 20 acres

Orchard Location

- Every orchard is different
- Monitor and treat separately


2011 Orchard #2 - 3 Trap Locations (Hartleys)
Husk Fly Trap Catches (Traps up 6/9/11)
Sticky Trap w/ A.C. Charger
Suterra
Monitoring Program
Traps up 6/9
First WHF catch 7/11
First female WHF with eggs 7/25
First spray application 7/26
Females with eggs 8/15
Second spray application 8/15
Females with eggs 8/25
Third spray 8/26
No females with eggs as of 9/6
Number of flies
20
15
10
5
0
Spray 7/26
Spray 8/15
Spray 8/26
Spray 9/16
7/5
7/12
7/19
7/26
8/2
8/9
8/16
8/23
8/30
9/6
9/13
9/20
9/27


2011 Orchard #1 (Chandlers)
Husk Fly Trap Catches (Traps up 6/9/11)
Sticky Trap w/ A.C. Charger
Suterra (one change)
Female WHF with eggs
8/4
8/24
8/29
9/10
9/26
Number of flies
20
15
10
5
0
Spray 8/9
Spray 8/26
Spray 9/14
Spray 9/29
7/5
7/12
7/19
7/26
8/2
8/9
8/16
8/23
8/30
9/6
9/13
9/20
9/27
10/4


2011 Orchard #3 (Vinas)
Husk Fly Trap Catches (Traps up 6/9/11)
Sticky Trap w/ A.C. Charger
Suterra
Number of flies
20
15
10
5
0
Spray 8/9
Spray 8/26
Spray 9/14
7/5
7/12
7/19
7/26
8/2
8/9
8/16
8/23
8/30
9/6
9/13
9/20
9/27


Male
Female
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Walnut Husk Fly Spray Materials

Robert Van Steenwyk CE Entomology Specialist UC Berkeley

- Assail
- Brigadier
- Leverage
- Baythroid
- Brigade
- Provado
- Lorsban
- Imidan
- Malathion

With Nu-Lure