

# Plum Curculio Control Strategies for Apple and Tart Cherry

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## Monitoring for Plum Curculio

### Trap Deployment

- Set up 5 pyramid traps on the perimeter of the orchard, biasing their location toward most likely invasion sites.
- Use screen traps to monitor inside orchard populations only.

### Bait traps

- The most effective baiting strategy is to use both Plum Essence and Benzaldehyde lures.
- Replace lures every 3 weeks or when they dry out

### Monitor traps

- Once a week from 50 - 150 DD<sub>50</sub>
- Three times a week from 150 - 350 DD<sub>50</sub>
- Once a week from 350 - Harvest



Monitoring PC activity will help you decide how to best manage this pest. For our purposes we defined the following pressures:

Low pressure ≤ 20 PC caught in 5 pyramid traps from 20 - 240 DD<sub>50</sub>.

Moderate pressure = Between 20 and 40 PC caught in 5 pyramid traps from 20 - 240 DD<sub>50</sub>.

High Pressure ≥ 40 PC caught in 5 pyramid traps from 20 - 240 DD<sub>50</sub>.

## Insecticide Pre-Harvest Intervals

Trade name	Chemical class	PHI (Days)
Actara	Neonicotinoid	14
Ambush WP	Pyrethroid	3
Asana XL 0.66 EC	Pyrethroid	14
Diazinon 50 WP	OP	21
Esteem 35 WP	IGR, JH mimic	14
Guthion 50WP	OP	14
Imidan 70WP	OP	7
Lorsban 50WP	OP	14
Lorsban 4E	OP	6
Mycotrol - O	Microbial	0
Neem Compound	Botanical	0-1
Pounce 25WP	Pyrethroid	3
Provado 1.6 F	Imidacloprid	7
Pyganic EC 1.4	Pyrethrin	0
Sevin 80S	Carbamate	3
Vendex	Organotin	14
Warrior	Pyrethroid	14

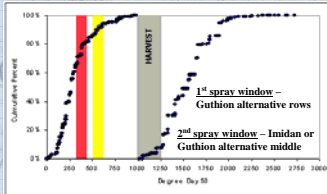


## Spray Timings for Conventional Cherries

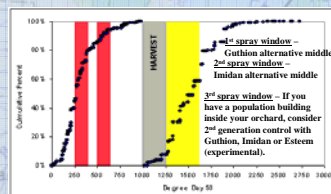
### Pressure on Borders Only

### Pressure on Border and Interior

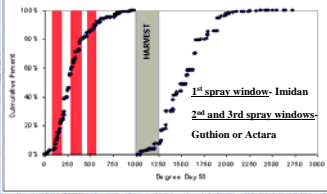
LOW PRESSURE



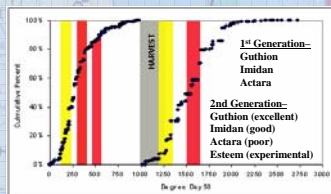
LOW PRESSURE



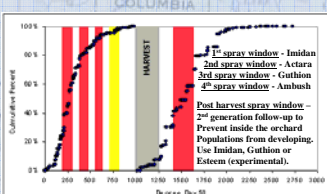
MEDIUM PRESSURE



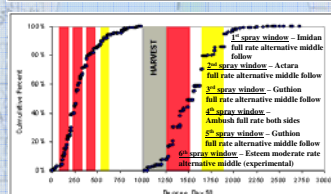
MEDIUM PRESSURE



HIGH PRESSURE

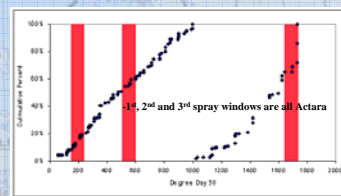


HIGH PRESSURE

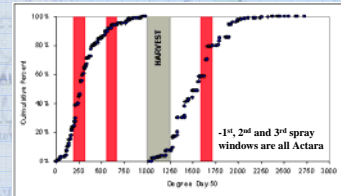


## Spray Timings for OP Alternatives

### Apple



### Cherry

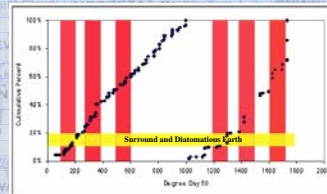


## Spray Timings for Organic Orchards

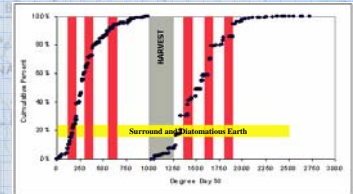
### Surround and Pyganic

- Start Surround on Interior of Orchard, spray at least 9 and as many as 18 applications
- All red spray windows are timings for Pyganic.
- Spray borders (3 rows, both sides)
- Check water pH to assure best activity
- Reapply if washed off (>1/2" rain in 24 hours)

### Apple



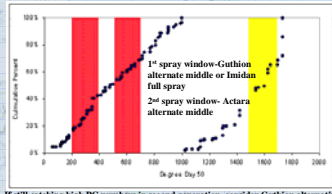
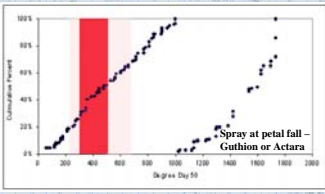
### Cherry



## Spray Timings for Conventional Apples

### Pressure on Border Only

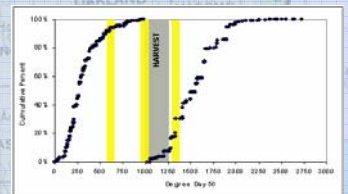
### Pressure on Border and Interior



If still catching high PC numbers in second generation, consider Guthion alternative middle-timed with 80% emergence of summer generation (Yellow spray window).

### Cherry Mycotrol-O Strategy

- Place spores on soil surface when 1<sup>st</sup> generation larvae are crawling into soil to pupate
- 3 Ground Applications
- 100 gal/A
- 350oz Mycotrol/A (approx. 27 gal)



These cumulative trap catch represent data from 2003 - 2004 apple orchards and 2001-2004 cherry orchards using pyramid traps to monitor PC in Conventional, OP-Alternative and Organic management systems. These probability of occurrence curves represent approximately 10300 captures.