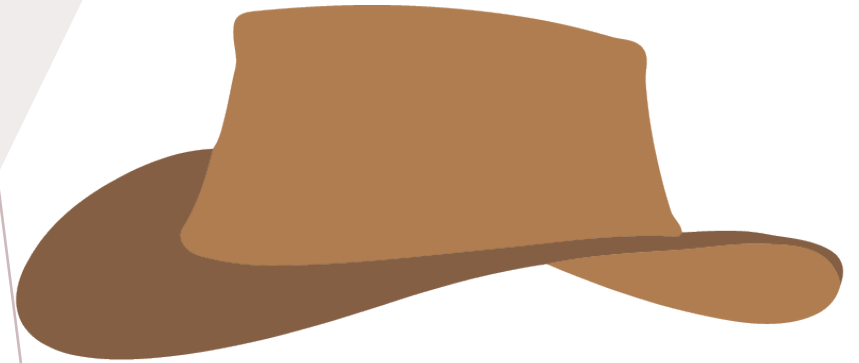


*ON FARM
FRUIT FLY
MANAGEMENT
PRACTICAL*

BRETT IRVINE



IRVINE

Horticultural Management Services



PROGRAM OUTLINE

Standard Part of Your Spray Program

Set up Monitoring Traps Early

Set up MAT Traps in Grid Pattern & Target Hot Spots

Protein Bait Spraying Regularly

Monitor Traps and Crops Regularly

Foliar Insecticide Spraying

Remedial Bunch Trimming or Removal

Harvest QA Adjustments

SET UP MONITORING TRAPS

- Early warning system, very cost effective
- Set up traps starting at flowering or earlier
- Perimeter of blocks, boundary fences, tree lines, adjacent crop boundaries, buildings, gardens, trees or shaded entry points
- Counts traps weekly, move traps if necessary
- Identify entry/exit points to blocks, hot spots
- Share info with neighbours



SET UP MAT TRAPS

- Buy MAT Traps allowing for 15/ha, < \$1 each
- Use info from Monitoring Traps to guide placement
- Set up no later than 6brix, should last 3+ months
- Grid pattern in blocks, ensure ends of rows are covered
- Concentrate along entry/exit points, farm hot spots
- Neighbours / adjacent hot spots
- Focus on keeping fruit fly out, not attract in
- Keep Monitoring, refresh Monitoring Traps if required



BAIT SPRAY REGULARLY

- Start at 8 brix (used to be 12 brix)
- Set up gear now to make operation time efficient
- Bait spray every 5-7 days, every 5th row
- No spray on fruit at all
- Do half the farm each time & hotspots every time
- Hotspots inside and outside the farm
- Reapply if rainfall > 7mm
- Treatment options:
 - 20L/ha Hymal* @ 435ml & Natflav 2L/100L water
 - 20L/ha Fyfanon 1000EC @ 500ml & Natflav 2L/100L water
 - 20L/ha Fyfanon 440EW @ 700ml & Natflav 2L/100L water
 - 7-15L/ha Naturalure 1L/6.5L water
 - Tyranex 900 Veriphy 70g/16L water & autolysate 320ml
 - Tyranex 500 Veriphy 125g/16L water & autolysate 320ml

* Note that Hymal will be unavailable after January 2025.





MONITORING

- Weekly trap counts
- Crop monitoring for 'stings'
- Crop monitoring for rot, if fruit turns quick it is QFF
- Load up hot spots with more MAT's?
- Advise to increase baiting in hot spots, less elsewhere?
- Keep baiting interval at 5-7d or back to 3d?
- Keep monitoring outside risk sites
- Keep monitoring blocks even after harvest to protect remaining blocks



LAST RESORT MANAGEMENT

- The previous programs have never failed us when executed properly
- Other options include:
 - Fine weave netting
 - Remedial bunch trimming or bunch removal prior to picking
 - Foliar spraying parts of block – very expensive, every 7d for good coverage but then still timing gaps
 - Know where you are sending sprayed fruit, WHP vary
 - Increase Harvest QA for high risk fruit, tough to spot late stings