



***IPDM PROJECT– The Next Phase:  
An integrated pest and disease management  
extension program for the olive industry  
(OL17001)***

**Robert Spooner-Hart**

**Hort  
Innovation**  
Strategic levy investment



**WESTERN SYDNEY  
UNIVERSITY**  


# PROJECT ACTIVITIES



**WP1. Collate and analyse existing information on olive IPDM, with particular reference to Black Scale, OLB and Anthracnose (Year 1)**

- Major Literature Surveys,
- Survey of Australian olive growers
- Follow-up survey Year 3

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## **WP2. Workshops/field days (Years 1 and 2)**

- IPDM Workshops (9): Covering principles and practices of IPDM; monitoring, biology/ecology/life cycles of Black Scale, Olive Lace Bug, and Anthracnose (with a local focus); conventional and organic management
- Master Classes (2): for consultants, pest monitoring scouts in large groves etc.

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## **WP3. IPDM extension/communications platform for the industry (Years 2 and 3)**

- revised Pest and Disease Field Guide
- best practice IPDM manual.
- web-based tutorials
- flyers on IPDM and the three target species

## 10 IPDM FIELD DAYS HELD

Marulan (NSW) 10 Aug 2018

Lovedale (NSW) 12 Aug 2018

Perseverance/Toowoomba (QLD) 3 Nov 2018

Pomonal/Grampians (Vic) 16 Nov 2018

Roseworthy (SA) 24 Nov 2018

Launceston (TAS) 1 Dec 2018

New Norcia (WA) 15 Feb 2019

Margaret River (WA) 17 Feb 2019

>270 growers attended, with numbers ranging from 12 to 41. Participant feedback very good.



## **FIELD DAY TOPICS**

*Risk Management, Biosecurity, Continuous Improvement & Technical Support, OliveCare<sup>®</sup>, Minor Use Permits*

*Grove Management– Healthy Trees to Support an IPDM Program*

*Olive Wellness Institute Project*

*Principles and Practices of IPDM*

**Key pests and diseases of olives, their biology and management**

*IPDM Grove Walk*

*Review of Field Visit; Q & A Session, informal networking*



## MASTER CLASS 25-26 SEPT, 2019 Hawkesbury campus WSU

TOPIC	PRESENTER(S)
IPDM Project, symptoms	Robert Spooner-Hart (WSU)
Olive diseases	Len Tesoriero (NSW DPI) Barbara Hall (SARDI)
Lace Bug, Black scale biology	Robert Spooner-Hart
Diagnostics in the laboratory	Len Tesoriero, Barbara Hall, Robert Spooner-Hart
Soil microbiology	Tom Jeffries (WSU)
Soil chemistry	Paul Milham (WSU, ex-NSW DPI)
Oil sprays and their role in arthropod (esp. scale) management	Andrew Beattie (WSU, ex NSW DPI)
Black scale management: biological control	Andrew Beattie Robert Spooner-Hart
Current and possible future agrichemical options (including organic) for olive pests and pathogens	Len Tesoriero Barbara Hall Robert Spooner-Hart
Biosecurity: pest and disease threats Diagnostics	Robert Spooner-Hart Barbara Hall Len Tesoriero
Group discussions on future actions, Wrap up	All



# Presentation of tutorial on olive pests and diseases





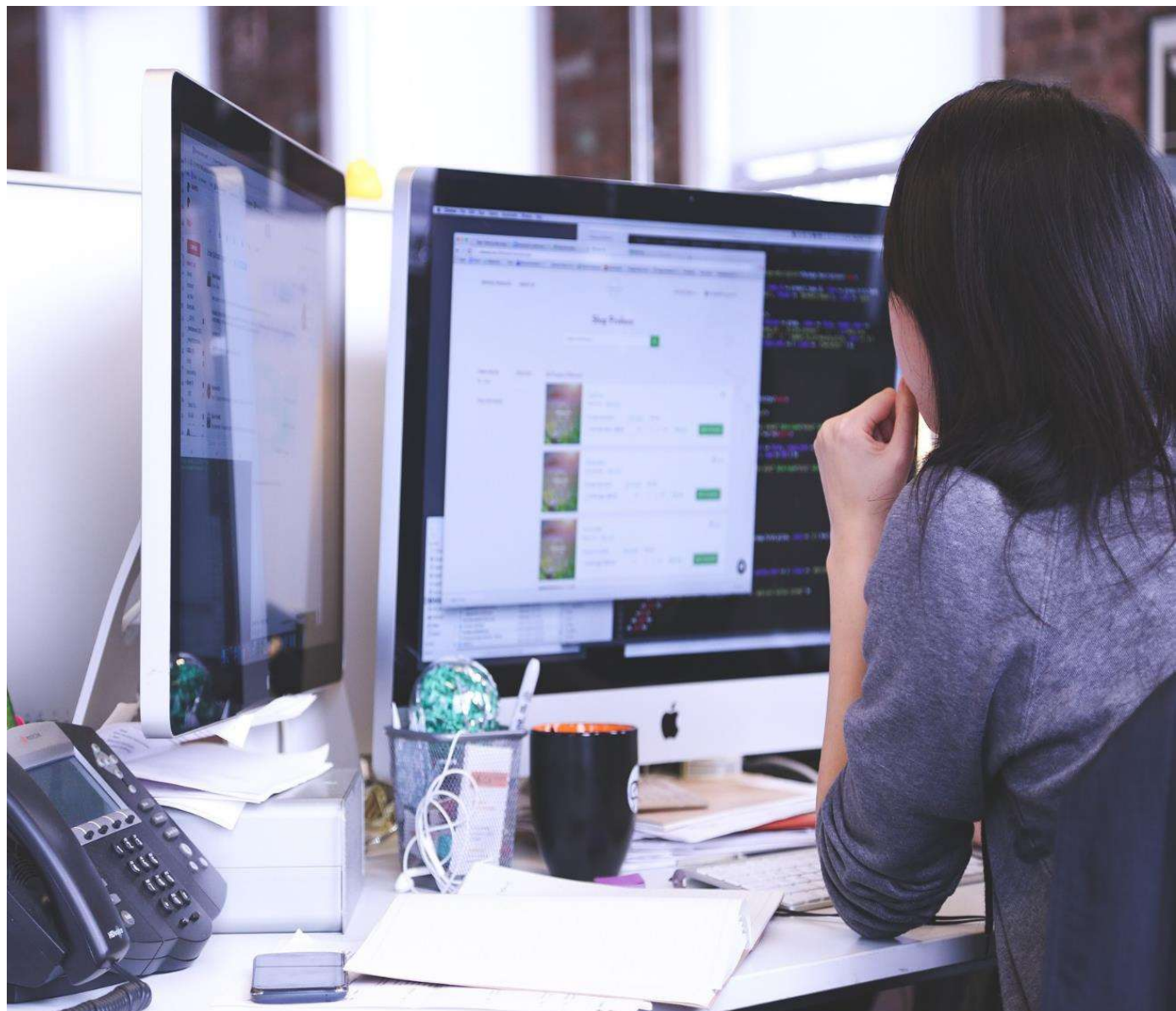
Master Class  
participants  
inspecting  
samples of  
anthracnose on  
olive fruit with  
Plant Pathologists  
Len Tesoriero and  
Barbara Hall  
during laboratory  
session



## WEB-BASED TUTORIALS

Provide up to date information, self-assessment of knowledge, as well as to prompt changes to/improved practices by growers as a result of completing the tutorial.

Tutorials will be available 24/7 on the AOA's open-access website, Olive Biz.



## TUTORIAL TOPICS

### 1. **Principles and practices of integrated pest and disease management:**

including IPDM principles and practices from an ecological and organic perspective, importance of tree health, cultural practices, biological control, and resistance management.

### 2. **Monitoring for pests, diseases and beneficial species:**

including symptoms and possible causes, identification/diagnostic services, biosecurity and the pest hotline

### 3. **On-farm biosecurity,**

including pests and diseases not present in Australia, especially Xylella

### 4. **Black scale:**

biology, damage and management (including for organic growers).

### 5. **Olive lace bug:**

biology, damage and management (including for organic growers)





## TUTORIAL TOPICS

6. **Weevils:** biology, damage and management (including for organic growers).
7. **Anthracnose:** life cycle, conditions conducive, symptomatology and damage, and management (including for organic growers).
8. **Peacock spot:** life cycle, conditions conducive, symptomatology and damage, and management (including for organic growers).
9. **Grey mould/Cladosporium:** life cycle, conditions conducive, symptomatology and damage, and management (including for organic growers).



# FLYERS

Eight electronic copy “flyers” identified for production

One-two page summary of the tutorial information

Available to olive growers and advisors/consultants/ pesticide suppliers via the Olive Biz website.  
Access to e-copies as well as downloading and printing of hard copies for distribution

Flyer topics are:

1. Integrated pest and disease management in Australian olive production
2. On-farm biosecurity and Xylella
3. Black Scale
4. Olive Lace Bug
5. Weevils
6. Anthracnose
7. Peacock spot
8. Grey mould/Cladosporium





## BEST PRACTICE IPDM MANUAL

- Similar to the section developed in collaboration with the Hunter Olive Association's (HOA) Best Practice Handbook.
- Alternative extension tool to the web-based tutorials and flyers
- Available to all olive growers on Olive Biz website.
- Planned to be completed by end August 2020



# REVISED FIELD GUIDE TO OLIVE PESTS, DISEASES AND DISORDERS

- Information updated and extended, including revision of Australian information and inclusion of new exotic pests and diseases. Increased number of images.
- Electronic format
- Table of contents allows selection of specific pest or disease

## Field Guide to Olive Pests, Diseases and Disorders in Australia



Robert Spooner-Hart,  
Len Tesoriero, Barbara Hall

**FINAL PROJECT SURVEY**

**WE ARE ALL SICK OF SURVEYS**



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### WE ARE ALL SICK OF SURVEYS



However, to assess the outcome of the project, we are required under the contract to undertake a second survey towards the end of the project. So in August, 2020, we encourage you to participate in this second survey: this will also update information on olive P & D.

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We anticipate the tutorials, Field Guide and flyers will be completed by end May 2020





**WE LOOK FORWARD TO YOUR FURTHER  
PARTICIPATION IN THE PROJECT**

**Hort  
Innovation**  
Strategic levy investment

**OLIVE  
FUND**

This project has been funded by Hort Innovation using the olive research and development levy and funds from the Australian Government. For more information on the fund and strategic levy investment visit [horticulture.com.au](http://horticulture.com.au)



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**PLEASE SEND ANY INFORMATION OR IMAGES TO  
[r.spooner-hart@westernsydney.edu.au](mailto:r.spooner-hart@westernsydney.edu.au)**

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