



Murray Valley Citrus Board  
 58 Pine Avenue  
 Mildura VIC 3500

Phone: (03) 5051 0500  
 IDO Mb: 0427 211 890  
 Field Officer Mb: 0407 325 934

# Property Map

Business Name:		PropertyID/Block No:	
Contact Person:		Mailing Address:	
Phone Number:		Approved Supplier Number/s:	

**SECTION**      **VARIETY**      **AREA (Ha)**      Use the space provided below to sketch a map of your property or provide a copy of an aerial photo with patch details noted.  
**THIS MAP MUST BE PROVIDED** (Murray Valley Citrus Board can provide you with a property map to attach)

A		
B		
C		
D		
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V		
W		
X		
Y		
Z		



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## Chemical Spray Records

<b>Business Name:</b>		<b>Phone:</b>	
<b>Property Address:</b>			

NOTE: This Spray diary has been formatted for printing

I declare that the information below is a correct record of chemicals applied to this property.	<b>Signature:</b>
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DATE		TREATED CROP & AREA	REGISTERED PRODUCT	RATE USED (per 100L)	SPRAY VOLUME (per HA)	HOLDIN G PERIOD	TARGETED PEST/DISEASE	EQUIPMENT & WEATHER CONDITIONS	PERSON APPLYING CHEMICAL
Day, date and time spray was applied.		List crop, order of blocks, and area treated	Ensure all chemicals applied are noted including wetters, oils.	Show amount of chemical added	Show the litres applied/Ha	Show label or industry WH period.	List all pests or diseases being targeted	Wind Speed and Direction Equipment Used	Name, address, contact details and signature
DAY			1		/100L				
DATE			2		/100L				
START			3		/100L				
FINISH			4		/100L	/Ha			
DAY			1		/100L				
DATE			2		/100L				
START			3		/100L				
FINISH			4		/100L	/Ha			
DAY			1		/100L				
DATE			2		/100L				
START			3		/100L				
FINISH			4		/100L	/Ha			
DAY			1		/100L				
DATE			2		/100L				
START			3		/100L				
FINISH			4		/100L	/Ha			
DAY			1		/100L				
DATE			2		/100L				
START			3		/100L				
FINISH			4		/100L	/Ha			



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**Length**

To Convert	Multiply By
Inches into millimetres.....	25.4
Inches into centimetres.....	2.54
Inches into metres.....	0.0254
Feet into centimetres.....	30.48
Feet into metres.....	0.3048
Yards into metres.....	0.9144
Chains into metres.....	20.1168
Miles, statute into kilometres.....	1.609344

**Volume and Capacity**

To convert	Multiply By
Cubic inches into cubic centimetres.....	16.387064
Cubic inches into litres.....	0.016387
Cubic feet into cubic metres.....	0.0283168
Cubic feet into litres.....	28.316847
Cubic yards into cubic metres.....	0.7645549

**Area**

To Convert	Multiply By
Square inches into square centimetres.....	6.4516
Square feet into square metres.....	0.092903
Square yards into square metres.....	0.836127
Square yards into acres (0.01 hectares)....	0.0083613
Acres into square metres.....	4046.85645
Acres into hectares.....	0.4046856
Square miles into square kilometres.....	2.589988

**Power**

To convert	Multiply By
Horsepower into watts.....	747.7
Horsepower into kilowatts.....	0.7457

**Mass**

To convert	Multiply By
Ounces into grams.....	28.349523
Ounces into kilograms.....	0.0283495
Pounds into kilograms.....	0.4535924

**DISCLAIMER:**

The information provided in this publication is supplied by the Murray Valley Citrus Board.

No responsibility or guarantee is given or implied for any actions taken by individuals or groups as a result of information contained within this publication, and no liability will be accepted by the MVCB, for any loss resulting from any such use.



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**Spraying Around Sensitive Sites**

Land managers intending to use aerial or mister spraying within 200 metres of schools, hospitals, aged care services or children's services must now notify the pilot or mister operator in writing of the existence and location of the facility. A mister has been defined to include any fan assisted sprayer including a mist blower, orchard sprayer, air blast sprayer, air shear sprayer or any other sprayer producing fine or very fine spray quality.

Spraying is not allowed to commence until at least 24 hours after information about the intended spraying time and the chemical details are provided by the pilot or operator to the landholder. The landholder must then provide the details about the proposed spraying to the school principal or facility site manager at least 12 hours before the spraying is to commence.

Further information on the chemical use requirements for Victorians are available from the DPI Customer Service Centre on 136186 or visit the DPI website at [www.dpi.vic.gov.au/chemicalstandards](http://www.dpi.vic.gov.au/chemicalstandards). Under Victorian legislation chemical records must be kept for two years.

Further information for New South Wales chemical users is available from <http://www.dpi.nsw.gov.au/agriculture/farm/chemicals>. Under New South

**General Safety Precautions:**

Use pesticides only when needed.  
 Select the correct pesticide for the program  
 Read the label and follow the instructions  
 Be aware of pesticide side effects  
 Know storage, transport, disposal and emergency procedures for the pesticides used.  
 Use the approved personal protective equipment recommended on the label  
 Observe good personal hygiene practices  
 Keep out of reach of children and pets.

**Handling Pesticides**

Personal hygiene is a major health consideration.  
 When handling chemicals or pesticides, make sure you thoroughly wash your hands before eating, smoking or drinking.  
 Before Using  
 Read the label and MSDS - these provide useful information about the hazards associated with the pesticide and precautions to be taken. Take note of all warning labels and statements and follow directions carefully.  
 Advise others that you are going to work with a pesticide and make sure they are not going to be affected.

**Protective Clothing and Personal Protective Equipment**

When handling, mixing or applying pesticides you may need some or all of the following items:  
 Apron  
 Face Shield  
 Goggles  
 Head and neck coverings  
 Overalls/wet weather gear  
 Respiratory device  
 Rubber Boots  
 Rubber/PVC gloves  
 The type of protective clothing you must wear is described in the MSDS or on the label



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# Spray Calibration Worksheet for Orchard Sprayer

The aim of calibration is to ensure a specified rate of chemical is applied to the target plant (Step3). To calibrate a spray machine, measure the total spray output of the machine (Step 1) and the travel speed to work out the application rate (step 2).

<b>STEP ONE</b>					<b>STEP TWO</b>		<b>STEP THREE</b>	
<b>To Calculate Total Sprayer Output (L/min)</b>					<b>To Calculate Travel Speed</b>		<b>To Calculate Spray Application Rate</b>	
<p>The aim is to work out the total liquid sprayed from the machine in one minute.</p> <ol style="list-style-type: none"> <li>1. Fill the spray tank with clean water.</li> <li>2. Place a measuring jug under one nozzle. To prevent getting wet, attach a piece of plastic hose to the nozzle and place the other end into the jug.</li> <li>3. Run the sprayer for one minute at the correct pressure with all nozzles operating.</li> <li>4. Measure the amount of water in the jug and enter into orange boxes below. Compare this to the output specified by the manufacturer using the correct pressure.</li> <li>5. Repeat steps 2-4 for all nozzles.</li> <li>6. Add all the jug measurements to find the total sprayer output in Litres per minute..</li> </ol>					<p>The normal speed for spraying is between 4-8km/hour. The slower you travel the higher the application rate.</p> <ol style="list-style-type: none"> <li>1. Measure out a distance of 100 metres on the ground and mark the start and finish positions with pegs.</li> <li>2. Select the right gear for spraying and increase engine rpm to give 540 rpm at the PTO.</li> <li>3. Measure how many seconds it takes to travel 100metres with the sprayer attached and half full.</li> <li>4. Calculate your travel speed by inserting the time in seconds into the following formula:</li> </ol>		<p>*Spray application rate (L/Ha)</p> <p style="text-align: center;">= <math>\frac{600 \times \text{Total Sprayer output (L/min)}}{\text{Row spacing (m)} \times \text{speed (km/hr)}}</math></p> <p style="text-align: center;">= <math>\frac{600 \times \quad}{\quad \times \quad}</math></p> <p>Spray application rate:</p> <p style="text-align: center;">= .....L/Ha</p>	
Nozzle 1	Nozzle 2	Nozzle 3	Nozzle 4	Nozzle 5	$\text{Travel speed (km/h)} = \frac{100 \text{ (m)} \times 3.6}{\text{Time (seconds)}}$		<p>* Formula is for both sides with one pass            If spraying one side, row spacing is distance from centre of row to tree line.</p>	
Nozzle 6	Nozzle 7	Nozzle 8	Nozzle 9	Nozzle 10				



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