

# Onion information kit

Reprint – information current in 1997



## REPRINT INFORMATION – PLEASE READ!

For updated information please call 13 25 23 or visit the website [www.deedi.qld.gov.au](http://www.deedi.qld.gov.au)

This publication has been reprinted as a digital book without any changes to the content published in 1997. We advise readers to take particular note of the areas most likely to be out-of-date and so requiring further research:

- Chemical recommendations—check with an agronomist or Infopest [www.infopest.qld.gov.au](http://www.infopest.qld.gov.au)
- Financial information—costs and returns listed in this publication are out of date. Please contact an adviser or industry body to assist with identifying more current figures.
- Varieties—new varieties are likely to be available and some older varieties may no longer be recommended. Check with an agronomist, call the Business Information Centre on 13 25 23, visit our website [www.deedi.qld.gov.au](http://www.deedi.qld.gov.au) or contact the industry body.
- Contacts—many of the contact details may have changed and there could be several new contacts available. The industry organisation may be able to assist you to find the information or services you require.
- Organisation names—most government agencies referred to in this publication have had name changes. Contact the Business Information Centre on 13 25 23 or the industry organisation to find out the current name and contact details for these agencies.
- Additional information—many other sources of information are now available for each crop. Contact an agronomist, Business Information Centre on 13 25 23 or the industry organisation for other suggested reading.

Even with these limitations we believe this information kit provides important and valuable information for intending and existing growers.

**This publication was last revised in 1997. The information is not current and the accuracy of the information cannot be guaranteed by the State of Queensland.**

This information has been made available to assist users to identify issues involved in onion production. This information is not to be used or relied upon by users for any purpose which may expose the user or any other person to loss or damage. Users should conduct their own inquiries and rely on their own independent professional advice.

While every care has been taken in preparing this publication, the State of Queensland accepts no responsibility for decisions or actions taken as a result of any data, information, statement or advice, expressed or implied, contained in this publication.



Queensland Government

# Crop Production

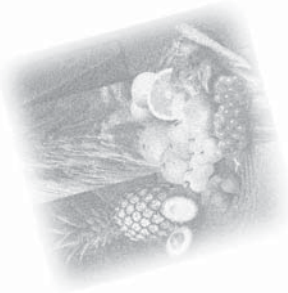
## HANDY GUIDE

for Early Lockyer White onions planted in March



Handy Guide 2

	Pre-plant	Planting to emergence (hook leaf)	Emergence to third leaf (hook leaf to third leaf)	Third leaf to bulbing (third to seventh or eighth leaf)	Bulbing to maturity (eighth leaf to 80% of leaves down)	After harvest
<b>Time from planting</b>		10 days	26 days	55 days	70 days	
<b>Duration of each stage</b>		0 – 10 days	11 – 37 days	38 – 93 days	94 – 164 days	
<b>Weed control</b>	Don't let weeds seed.	Apply pre-emergent herbicide.	Check for onion thrips. Spray as necessary. Control white rot. Keep soil surface moist.	Control weeds. Cultivate, chip or apply post-emergent herbicides.	Remove large weeds by hand.	Don't let weeds seed
<b>Pest and disease control</b>	Ensure all crop residue has broken down.	Control cutworm, and armyworm. Control white rot	Check for onion thrips. Spray as necessary. Control white rot. Keep soil surface moist.	Spray a protectant fungicide every 7 to 10 days to control downy mildew. Include a systemic chemical for two sprays if there is heavy dew or rain. Check for and spray for onion thrips. Control white rot.	Control downy mildew and purple blotch. Check for onion thrips. Spray as necessary.	Cultivate in-crop residue
<b>Plant nutrition</b>	Apply lime or dolomite (if required). Apply pre-plant fertiliser.			Do a leaf analysis. Apply all post-plant fertiliser. Apply side dressings as required. Do not exceed 50 kg/ha of nitrogen. Apply trace elements if required.		
<b>Watering</b>		Apply 12 to 25 mm after planting and applying herbicide and white rot control. Keep soil surface moist.	Keep soil surface moist.	Install tensiometers in pairs. Irrigate at 30 to 40 centibars on tensiometers, apply 15 to 20 mm.	Irrigate at 40 to 50 centibars. Apply heavier applications (20 to 35 mm) less frequently.	



# Problem Solver HANDY GUIDE

for onion pests and diseases

## Handy Guide 1

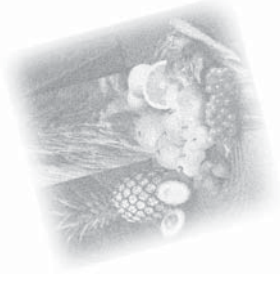
Active ingredient: Trade names	Chlorpyrifos (bait): Chlorfos, Chlorpyrifos, Cyren, Iban, Lorsban, Pirtoz	Chlorpyrifos (spray): Chlorfos, Chlorpyrifos, Cyren, Iban, Lorsban, Pirtoz, Pyrinex	Copper hydroxide: Blue Barrier, Blue Shield, Champion, Coppit-oh, Kocide	Copper oxychloride: Coppox	Carbaryl: Bugmaster Flowable, Carbaryl, Carbaryl Flowable	Trichlorfon: Lepidex	Benalaxyl + mancozeb: Gablen M	Chlorothalonil: Chlorothalonil, Fung-o-nil	Copper oxychloride + zineb: Coppemeb	Dimethoate: Danadim, Dimethoate, Perfektion, Rogor, Rogor Diostop, Roxion, Saboteur	Dimethomorph + mancozeb: Acrobat MZ	Endosulfan: 350 EC Bar Insecticide, Endosulfan, Thiodan	Mancozeb + metalaxyl: Ridomil MZ 680, Ridomil MZ 720	Mancozeb + oxadixyl: Recoil	Mancozeb: Bryzeb, Dithane, Mancozeb, Manzate, Penncozeb	Methidathion: Supracide, Suprathion	Propargite: Omite	Zineb: Zineb, Zineb	Chlorothalonil: Bravo 500, Bravo 720, Rover	Diazinon: Diazinon, Gesapon	Omethoate: Folimat	Oxadixyl + propineb: Fruvit	Propineb: Antracol	Thiomethin: Ekatin	Procyimidon: Sunisclex	Phorate: Phorate 100, Phorate 200, Thimet 100G, Umet 100 G	Fenamidphos: Nematicur 400	Chlorpyrifos (seed treatment): Lorsban 500 W, Strike-Out Seed Dressing	Dicloran (seed treatment): off label use	Metaxyl (seed treatment): off label use	Thiram (seed treatment): off label use							
Withholding period (days)	0	0	1	1	3	5	7	7	7	7	7	7	7	7	7	7	7	14	14	14	14	21	28	70	84	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a					
Aphids	✓									✓																												
Crickets																																						
Outworm		✓																																				
Damping-off																																						
Downy mildew																																						
Earwigs																																						
False wireworms																																						
Green vegetable bug																																						
Jassids																																						
Mites																																						
Nematodes																																						
Onion maggot																																						
Onion thrips																																						
Purple blotch																																						
Rutherglen bug																																						
Seedharvesting ants																																						
Spider mites																																						
Storage rot																																						
Thrips																																						
White rot																																						
Wingless grasshopper																																						

✓ Indicates that at least one of the trade products is registered for that use. Check the label before use.

✓ Indicates the preferred choice/s of the authors, considering effectiveness and environmental impacts.



**SAFETY FIRST**  
Read the label  
Follow the directions  
Wear protective clothing



# Chemical application rates

NOTE: Rates listed are a guide only. Individual products may vary within the range given. Check the label before use.

Active ingredient: trade names	Product rate	
	per 100 L water	per ha
<b>benalaxyl + mancozeb:</b> Galben M	250 g	2.5 kg
<b>carbaryl:</b> Flowable Bugmaster, Flowable Carbaryl Carbaryl	160 - 200 mL 100 - 130 g	1.8 - 2.2 L 1.4 kg
<b>chlorothalonil:</b> Bravo 500 Bravo 720 Chlorothalonil, Fung-o-nil, Rover 500 Flowable		3.3 L 2.3 L 3.3 L
<b>chlorpyrifos:</b> Chlorfos, Chlorpyrifos, Cyren, Iban, Lorsban, Pirifoz	100 mL/10 kg bran	
<b>chlorpyrifos:</b> Chlorfos, Chlorpyrifos, Cyren, Iban, Lorsban, Pirifoz, Pyrinex	50 - 70 mL	500 - 700 mL
<b>chlorpyrifos:</b> Lorsban 500 W Strike-Out Seed Dressing	500 g/10 kg 1 kg/10 kg	
<b>copper hydroxide:</b> Blue Barrier, Blue Shield, Champion, Coppit-oh, Kocide	200 g	2.2 kg
<b>copper oxychloride:</b> Coppox	300 - 400 g	3.5 - 4.5 kg
<b>copper oxychloride + zineb:</b> Coppeimeb	350 g	
<b>diazinon:</b> Diazinon, Gesapon	65 mL	700 mL
<b>dicloran:</b> off label use	1 part to 9 parts of kaolin	
<b>dimethoate:</b> Danadim, Dimethoate, Perfekthion, Rogor, Rogor Diostop, Roxion, Saboteur	75 mL	750 mL
<b>dimethomorph + mancozeb:</b> Acrobat MZ		2 kg
<b>endosulfan:</b> 350 EC Bar Insecticide, Endosulfan, Thiodan	190 mL	
<b>fenamiphos:</b> Nemaicur 400	16 mL/10 m of row	24 L
<b>mancozeb + metalaxyl:</b> Ridomil MZ 680 Ridomil MZ 720	250 - 440 g 250 g	2.5 - 4.4 kg 2.5 kg
<b>mancozeb + oxadixyl:</b> Recoil	250 g	2.5 kg
<b>mancozeb:</b> Bryzeb, Dithane, Mancozeb, Manzate, Penncozeb	150 - 200 g	1.7 - 3.5 kg



Active ingredient: trade names	Product rate	
	per 100 L water	per ha
<b>metalaxyl:</b> off label use	15 g/10 kg of seed	
<b>methidathion:</b> Supracide, Suprathion	75 mL	750 mL
<b>omethoate:</b> Folimat	65 mL	700 mL
<b>oxadixyl + propineb:</b> Fruvit	250 g	2.5 kg
<b>phorate:</b> Phorate 100 G, Thimet 100 G, Umet 100 G Phorate 200 G		10 - 15 kg 5 kg
<b>procymidone:</b> Sumisclex 500	1 L (transplant dip) 20 mL/kg of seed	4 L in furrow 2 L soil spray
<b>propargite:</b> Omite	1 kg	
<b>propineb:</b> Antracol	200 g	2 kg
<b>thiometon:</b> Ekatin	75 - 100 mL	
<b>thiram:</b> off label use	2 to 3 g/kg of seed	
<b>trichlorfon:</b> Lepidex	1 L	900 mL
<b>zineb:</b> Cyneb, Zineb	175 g	