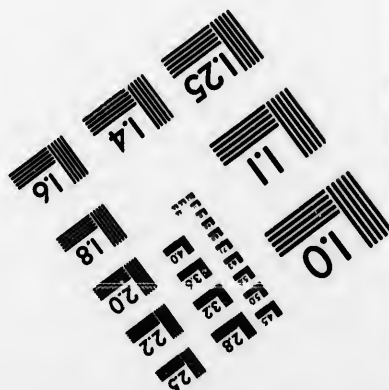
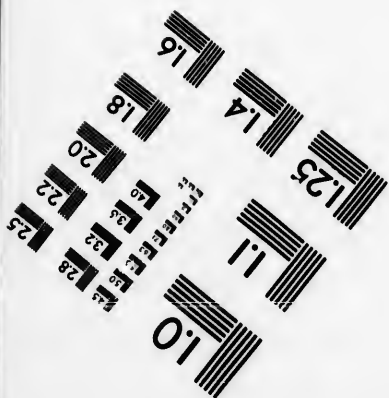
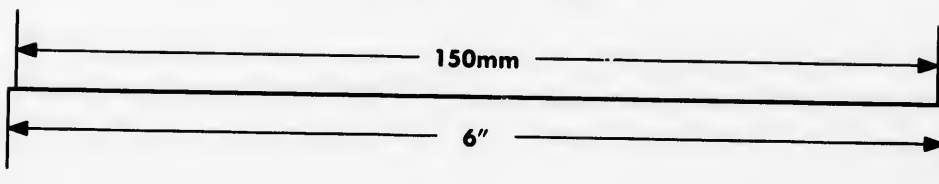
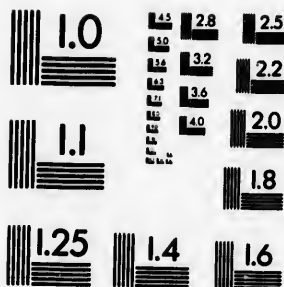
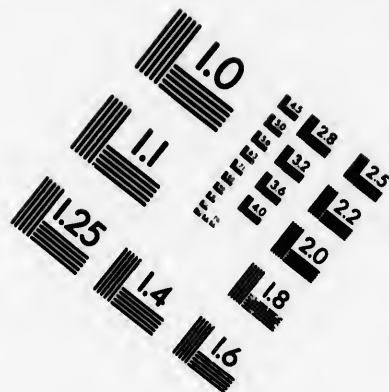
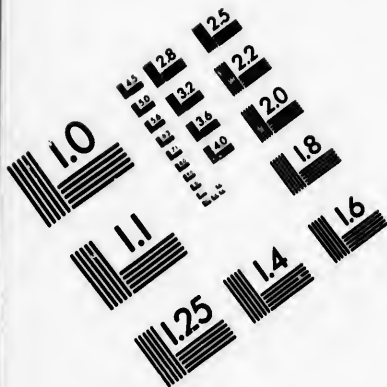


# IMAGE EVALUATION TEST TARGET (MT-3)



**APPLIED IMAGE, Inc**  
 1653 East Main Street  
 Rochester, NY 14609 USA  
 Phone: 716/482-0300  
 Fax: 716/288-5989

© 1993, Applied Image, Inc.. All Rights Reserved

**CIHM  
Microfiche  
Series  
(Monographs)**

**ICMH  
Collection de  
microfiches  
(monographies)**



**Canadian Institute for Historical Microreproductions / Institut canadien de microreproductions historiques**

**© 1993**

Technical and Bibliographic Notes / Notes techniques et bibliographiques

The Institute has attempted to obtain the best original copy available for filming. Features of this copy which may be bibliographically unique, which may alter any of the images in the reproduction, or which may significantly change the usual method of filming, are checked below.

L'Institut a microfilmé le meilleur exemplaire qu'il lui a été possible de se procurer. Les détails de cet exemplaire qui sont peut-être uniques du point de vue bibliographique, qui peuvent modifier une image reproduite, ou qui peuvent exiger une modification dans la méthode normale de filmage sont indiqués ci-dessous.

Coloured covers/  
Couverture de couleur

Coloured pages/  
Pages de couleur

Covers damaged/  
Couverture endommagée

Pages damaged/  
Pages endommagées

Covers restored and/or laminated/  
Couverture restaurée et/ou pelliculée

Pages restored and/or laminated/  
Pages restaurées et/ou pelliculées

Cover title missing/  
Le titre de couverture manque

Pages discoloured, stained or foxed/  
Pages décolorées, tachetées ou piquées

Coloured maps/  
Cartes géographiques en couleur

Pages detached/  
Pages détachées

Coloured ink (i.e. other than blue or black)/  
Encre de couleur (i.e. autre que bleue ou noire)

Showthrough/  
Transparence

Coloured plates and/or illustrations/  
Planches et/ou illustrations en couleur

Quality of print varies/  
Qualité inégale de l'impression

Bound with other material/  
Relié avec d'autres documents

Continuous pagination/  
Pagination continue

Tight binding may cause shadows or distortion along interior margin/  
La reliure serrée peut causer de l'ombre ou de la distorsion le long de la marge intérieure

Includes index(es)/  
Comprend un (des) index

Title on header taken from: /  
Le titre de l'en-tête provient:

Blank leaves added during restoration may appear within the text. Whenever possible, these have been omitted from filming/  
Il se peut que certaines pages blanches ajoutées lors d'une restauration apparaissent dans le texte, mais, lorsque cela était possible, ces pages n'ont pas été filmées.

Title page of issue/  
Page de titre de la livraison

Caption of issue/  
Titre de départ de la livraison

Masthead/  
Générique (périodiques) de la livraison

Additional comments: /  
Commentaires supplémentaires:

This item is filmed at the reduction ratio checked below /  
Ce document est filmé au taux de réduction indiqué ci-dessous.

10X	14X	18X	22X	26X	30X
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12X	16X	20X	24X	28X	32X

The copy filmed here has been reproduced thanks to the generosity of:

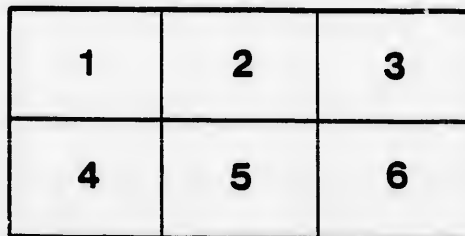
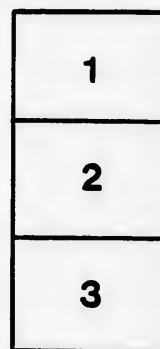
Library  
Agriculture Canada

The images appearing here are the best quality possible considering the condition and legibility of the original copy and in keeping with the filming contract specifications.

Original copies in printed paper covers are filmed beginning with the front cover and ending on the last page with a printed or illustrated impression, or the back cover when appropriate. All other original copies are filmed beginning on the first page with a printed or illustrated impression, and ending on the last page with a printed or illustrated impression.

The last recorded frame on each microfiche shall contain the symbol  $\rightarrow$  (meaning "CONTINUED"), or the symbol  $\nabla$  (meaning "END"), whichever applies.

Maps, plates, charts, etc., may be filmed at different reduction ratios. Those too large to be entirely included in one exposure are filmed beginning in the upper left hand corner, left to right and top to bottom, as many frames as required. The following diagrams illustrate the method:



L'exemplaire filmé fut reproduit grâce à la générosité de:

Bibliothèque  
Agriculture Canada

Les images suivantes ont été reproduites avec le plus grand soin, compte tenu de la condition et de la netteté de l'exemplaire filmé, et en conformité avec les conditions du contrat de filmage.

Les exemplaires originaux dont la couverture en papier est imprimée sont filmés en commençant par le premier plat et en terminant soit par la dernière page qui comporte une empreinte d'impression ou d'illustration, soit par le second plat, selon le cas. Tous les autres exemplaires originaux sont filmés en commençant par la première page qui comporte une empreinte d'impression ou d'illustration et en terminant par la dernière page qui comporte une telle empreinte.

Un des symboles suivants apparaîtra sur la dernière image de chaque microfiche, selon le cas: le symbole  $\rightarrow$  signifie "A SUIVRE", le symbole  $\nabla$  signifie "FIN".

Les cartes, planches, tableaux, etc., peuvent être filmés à des taux de réduction différents. Lorsque le document est trop grand pour être reproduit en un seul cliché, il est filmé à partir de l'angle supérieur gauche, de gauche à droite, et de haut en bas, en prenant le nombre d'images nécessaire. Les diagrammes suivants illustrent la méthode.

# ONTARIO DEPARTMENT OF AGRICULTURE.

TORONTO, MARCH 25TH, 1895.

## SPRAYING CALENDAR.

PROF. J. H. PANTON, ONTARIO AGRICULTURAL COLLEGE, GUELPH.

### SOLUTIONS RECOMMENDED.

#### 1. *Copper Sulphate Solution.*

Copper sulphate .....	1 pound.
Water .....	20 gallons.

To be used only before the buds burst, and never to be applied on the foliage. When applied to peach trees use 25 gallons of water instead of 20 gallons.

#### 2. *Bordeaux Mixture.*

Copper sulphate .....	5 pounds.
Lime (fresh) .....	4 pounds.
Water .....	40 gallons.

Suspend the copper sulphate in five gallons of water. This may be done by putting it in a bag of coarse material and hanging it so as to be covered by the water. Slake the lime in about the same quantity of water. Then mix the two and add the remainder of the 40 gallons of water. Warm water will dissolve the copper sulphate more readily than cold water. If the lime is at all dirty strain the lime solution. Use wooden vessels.

#### 3. *Ammoniacal Copper Carbonate Solution.*

Copper carbonate .....	1 ounce.
Ammonia, sufficient to dissolve the copper carbonate.	
Water .....	9 gallons.

The copper carbonate may be dissolved and kept on hand to dilute when necessary.

# SPRAYING CALENDAR.

Plant.	First application.	Second application.	Third application.	Fourth application.	Fifth application.
1. <i>Apple</i> . . . . . Scab, codling moth, bud moth.	Copper sulphate about the time buds are swelling.	Bordeaux, just before blossoms open ; Paris green for bud moth, when buds open.	Bordeaux and Paris green, when blos- soms have fallen.	3-12 days after Bor- deaux and Paris green.	Bordeaux 10-15 days later.
2. <i>Pear</i> . . . . . Leaf blight, scab, codling moth.	Copper sulphate when buds are swelling.	Bordeaux just before blossoms open.	Bordeaux and Paris green, after blos- soms have fallen.	9-12 days after Bor- deaux and Paris green.	Bordeaux 10-15 days later.
3. <i>Plum</i> . . . . . Rot, etc., and cur- culio.	Copper sulphate before buds open.	Bordeaux and Paris green as soon as blossoms fall.	9-12 days after Bor- deaux and Paris green.	Bordeaux 10-20 days later.	Ammoniacal copper carbonate 10-20 days later.
4. <i>Cherry</i> . . . . . Rot, aphid, slug.	Bordeaux as the buds are breaking. If aphid appears kero- sene emulsion.	Bordeaux, when fruit has set ; for slugs dust leaves with air-slaked lime. Hellebore also good against slug.	Bordeaux, 10-15 days after, if rot appears.	Ammoniacal copper carbonate 10-15 days later.	
5. <i>Peach</i> . . . . . Rot, mildew.	Copper sulphate be- fore buds swell.	Bordeaux before flowers open.	Bordeaux, when fruit has set.	Ammoniacal carbon- ate when fruit is nearly grown.	Repeat fourth 5-10 days later.
6. <i>Grape</i> . . . . . Mildew, etc., figs beetle.	Copper sulphate, when buds swell. Paris green for figs beetle.	Bordeaux, when leaves 1½ inches in diameter ; Paris green for mildew.	Bordeaux, when flowers have fallen Paris green for mildew.	Bordeaux 10-15 days later.	Bordeaux, 10-15 days later if disease is present.

5. Peach Rot, mildew.	Copper sulphate before buds swell.	Bordeaux before flowers open.	Bordeaux, when fruit has set.	Ammoniacal carbonate when fruit is nearly grown.	Repeat fourth 5-10 days later.
6. Grape Mildew, etc., flea beetle.	Copper sulphate, when buds swell. Paris green for flea beetle.	Bordeaux, when leaves 1 1/2 inches in diameter; Paris green for beetle.	Bordeaux, when flowers have fallen Paris green for beetle.	Bordeaux 10-15 days later.	Bordeaux, 10-15 days later if disease still appears.*
7. Raspberry Anthracnose, rust.	Copper sulphate before buds break.	Bordeaux if rust appears during summer.	Bordeaux if the trouble appears to continue.	The only remedy, as yet, for orange rust is to cut out diseased plants.	
8. Currant Worms and mildew.	Paris green or hellebore for worms.	Hellebore 10 days later for worms; Bordeaux for mildew.	Hellebore if necessary for worms.		
9. Gooseberry Mildew and worms.	Bordeaux as soon as leaves expand for mildew, hellebore for worms.	Bordeaux 10-15 days later. Worms as before.	Ammoniacal copper carbonate 10-15 days later.	If further treatment required for mildew repeat third 10-15 days later.	
10. Tomato Rot, blight.	Bordeaux, as soon as rot or blight appears.	Bordeaux, if trouble continues.	Bordeaux if necessary.		
11. Strawberry Rust.	Bordeaux when first fruits are setting.	Ammoniacal copper carbonate when first fruits are ripening.	Bordeaux, when fruit is taken off.	Bordeaux if trouble continues.	
12. Potato Blight, beetles.	Paris green as soon as beetles appear.	Bordeaux, when plants about six inches high.	Bordeaux 10-15 days later.		Repeat if necessary in 10-15 days.
13. Cabbage	Pyrethrum may be applied in solution or dusted on,	Pyrethrum may be applied in solution or dusted on,	1 part pyrethrum to 6-8 parts flour.		

\*If further applications are necessary use ammoniacal copper carbonate.

4. *Paris Green Mixture.*

- Paris green ..... 1 pound.
- Water ..... 200 to 300 gallons.

Use about 200 gallons of water for apple trees, 250 for plum trees and 300 for peach trees. When used upon peach trees add 1 pound of lime to the mixture. When Paris green is added to the Bordeaux mixture to form a combined insecticide and fungicide add 4 ounces to every 50 gallons of the Bordeaux mixture.

5. *Hellebore.*

- White hellebore (fresh) . . . . . 1 ounce.
- Water . . . . . 3 gallons.

6. *Kerosene Emulsion.*

- Hard soap! . . . . . ½ pound.
- Boiling water . . . . . 1 gallon.
- Coal oil . . . . . 2 gallons.

After dissolving the soap in the water add the coal oil and stir well for 5 to 10 minutes. A syringe or pump will assist much in this work. Dilute with from 9 to 15 parts of water.

7. *Pyrethrum.*

- Pyrethrum powder (fresh) . . . . . 1 ounce.
- Water . . . . . 4 gallons.

NOTES.

1. When there is danger of disfiguring fruit with the Bordeaux mixture use the ammoniacal copper carbonate solution.
2. Paris green and Bordeaux mixture may be applied together as well as separately, and thus save time.
3. Paris green is to be used for insects that *chew*, and kerosene emulsion for those that *suck* the juices of plants.
4. Prepare the mixtures well, apply them at the proper time, and be as thorough as possible in the work.





