CONTENTS

Chapter 1: Managing Insect Pests in the Home, Yard, and Garden

- Insect/Mite Feeding .............................................. 1
- Insect Leftovers .................................................. 1
- Multicolored Asian Lady Beetle .................................. 2
- Gypsy Moth ................................................................ 3
- Japanese Beetle ...................................................... 4
- Wood-Boring Insects ............................................... 5
- Emeralds Ash Borer .................................................. 6
- Bed Bug ................................................................... 8
- Termite Control ....................................................... 9

Table 1. Management Suggestions for Insects in Vegetables .................. 11
Table 1A. Days Between Insecticide Application and Harvest .............. 13
Table 2. Management Suggestions for Insects in Flowers and Indoor Plants 14
Table 3. Management Suggestions for Insects in Trees and Shrubs ........ 16
Table 4. Management Suggestions for Insects in Lawns ....................... 21
Table 5. Management Suggestions for Household Insects ................... 22
Table 6. Names of Insecticides ....................................... 31
Table 7. Conversion Table for Small Quantities of Insecticide ............... 41

Chapter 2: Controlling Weeds in Home Lawns

- Weed Life Cycles ..................................................... 43
- Lawn Weed Control .................................................. 44
- Weed-Control Groups .............................................. 46

Table 1. Recommended Turfgrass Planting Combinations for Specific Midwest Sites and Applications .................................................. 45
Table 2. Suggested Mowing Heights for Commonly Used Turfgrass Species 45
Table 3. Postemergence Herbicide Control of Broadleaved Weeds in Turf 49
Table 4. Timing Applications of Broadleaf Postemergence Herbicides ...... 50

Chapter 3: Controlling Weeds in the Home Garden

- Prevention ............................................................. 53
- Cultivation and Mechanical Removal ................................ 53
- Mulching .................................................................. 54
- Ground Covers ....................................................... 55
- Herbicides ............................................................. 55
- Pesticide Safety ....................................................... 59
- Classification of Herbicides ........................................ 60

Table 1. Preemergence Herbicides Recommended for Application by Home Gardeners .................................................. 57
Table 2. Postemergence Herbicides Recommended for Application by Home Gardeners .................................................. 58
Table 3. Efficacy Ratings of Herbicides Recommended for Application by Home Gardeners .................................................. 59
Chapter 4: Managing Plant Diseases in the Home Landscape

Diagnosis ................................................. 63
Before You Spray ........................................ 64
How to Use This Chapter .............................. 64

Table 1. Report on Plant Disease Series ............... 66
Table 2. Products Labeled for Turfgrass Diseases ..... 70
Table 3. Disease Symptoms of Flowers and Nonwoody Ornamentals .......... 72
Table 4. Products Labeled for Specific Flowers or Other Nonwoody Ornamentals . 74
Table 5. Disease Symptoms of Woody Ornamentals .............. 88
Table 6. Products Labeled for Specific Woody Ornamentals ....... 91
Table 7. Products Labeled for Most Ornamentals .................. 106
Table 8. Pesticides Listed in Tables 2, 4, and 6 ............. 107

Chapter 5: Managing Diseases in the Home Garden

Disease Control Before Planting ........................ 109
Cultural Practices ........................................ 111
Disease Control During the Growing Season ............ 111
Principal Diseases of Vegetables and Recommended Control Measures .... 112
Key to Seed Sources ..................................... 133

Table 1. Disease-Resistant/-Tolerant Bean Varieties ........ 117
Table 2. Disease-Resistant/-Tolerant Cabbage Varieties ...... 119
Table 3. Disease-Resistant/-Tolerant Muskmelon Varieties .... 121
Table 4. Disease-Resistant/-Tolerant Watermelon Varieties .... 122
Table 5. Disease-Resistant/-Tolerant Cucumber Varieties ....... 124
Table 6. Disease-Resistant/-Tolerant Zucchini Varieties ......... 126
Table 7. Disease-Resistant/-Tolerant Pea Varieties .............. 126
Table 8. Disease-Resistant/-Tolerant Pepper Varieties ........ 127
Table 9. Disease-Resistant Sweet Corn Varieties .............. 128
Table 10. Disease-Resistant/-Tolerant Sweet Potato Varieties .... 129
Table 11. Disease-Resistant/-Tolerant Tomato Varieties ........ 129
Table 12. Fungicides for Use by Vegetable Gardeners .......... 131

Chapter 6: Managing Pests in Home Fruit Plantings

Changes in Registration of Pesticides .................... 135
Production Tips .......................................... 135
Disease-Resistant Cultivars ............................... 135
Insecticides and Fungicides ............................... 136
Instructions and Tips for Spraying ....................... 141
Preventing Mouse Damage ................................ 142
Preventing Rabbit Damage ............................... 142
Preventing Bird Damage ................................ 143
Additional Information .................................. 143

Table 1. Approximate Amount of Spray Required for Fruit Trees of Various Sizes .... 143
Table 2. Spray Schedule for Apples, Crabapples, Pears, and Quinces .......... 144
Table 3. Spray Schedule for Grapes ........................ 145
Table 4. Spray Schedule for Blueberries .................... 145
Table 5. Spray Schedule for Peaches, Nectarines, Apricots, Plums, and Cherries .... 146
Table 6. Spray Schedule for Strawberries .................... 147
Table 7. Spray Schedule for Brambles (Blackberries and Raspberries) ......... 148
Chapter 7: Integrated Pest Management and Pesticide Safety

Integrated Pest Management for Homeowners ............................................. 151
Pesticides in the Environment ................................................................. 156
Labels ........................................................................................................ 162
What Information Is Found on a Pesticide Label? .................................. 163
Human Pesticide Protection .................................................................... 164
Understanding Pesticides ....................................................................... 169
Pesticide Characteristics ......................................................................... 170

Table 1. *Bacillus thuringiensis* (Bt) Types and Insect Groups They Are
Used On .................................................................................................... 153
Table 2. Natural Enemies That Can Be Found in Landscapes and Gardens
or Purchased from Commercial Suppliers ............................................. 155
Table 3. Plants That Can Be Used in Landscapes and Gardens to Attract
Natural Enemies ..................................................................................... 157
Table 4. Pesticide Label Signal Woods ..................................................... 163
Table 5. Pesticide Formulations ............................................................... 172
Table 6. Tank Sprayers ............................................................................. 173
Table 7. Granular Applicators .................................................................. 176

Index ......................................................................................................... 179