

Chapter 10 Integrated Pest Management

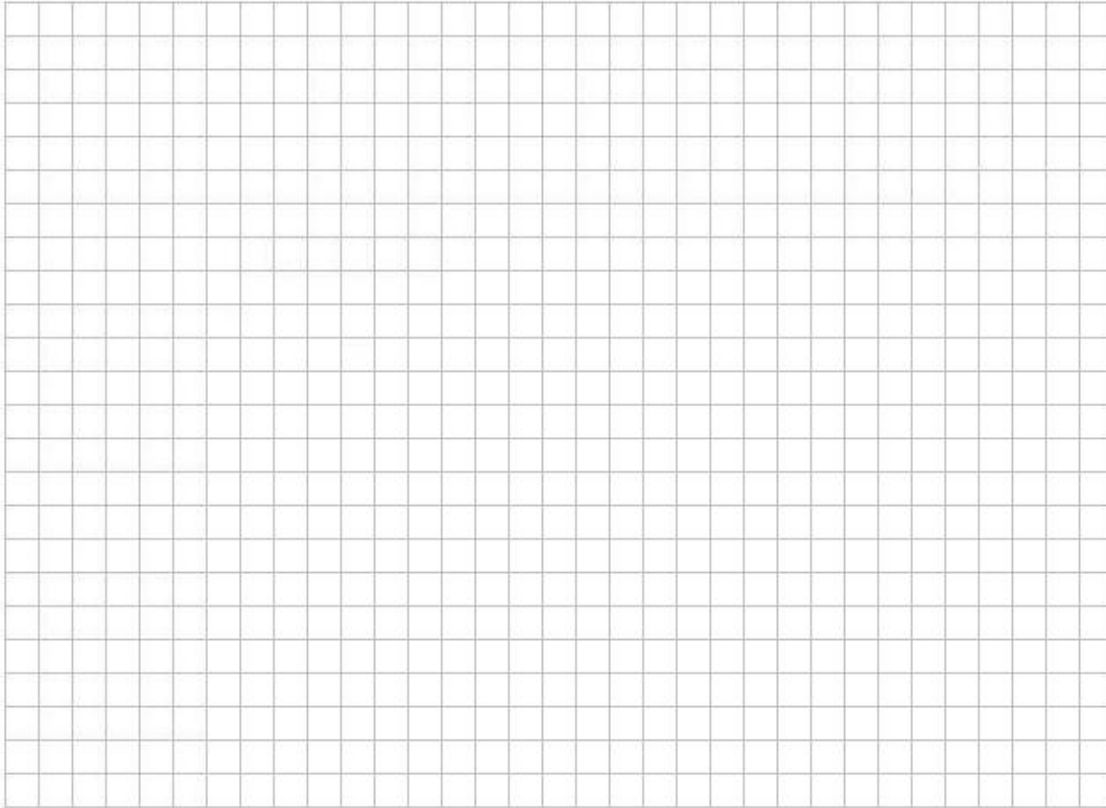
Appendix I

Integrated Pest Management Record-Keeping File

(Make as many copies as necessary)

Map of Front Yard

(Include driveways, shrubs, trees, sidewalks, garden areas, and other features)



Legend

- | | |
|-----------|-----------|
| 1. _____ | 11. _____ |
| 2. _____ | 12. _____ |
| 3. _____ | 13. _____ |
| 4. _____ | 14. _____ |
| 5. _____ | 15. _____ |
| 6. _____ | 16. _____ |
| 7. _____ | 17. _____ |
| 8. _____ | 18. _____ |
| 9. _____ | 19. _____ |
| 10. _____ | 20. _____ |

Events That Have Affected Local Environment
 (Include lightning strikes, spills, construction, and other events)

Event	Date	Time Length	Results

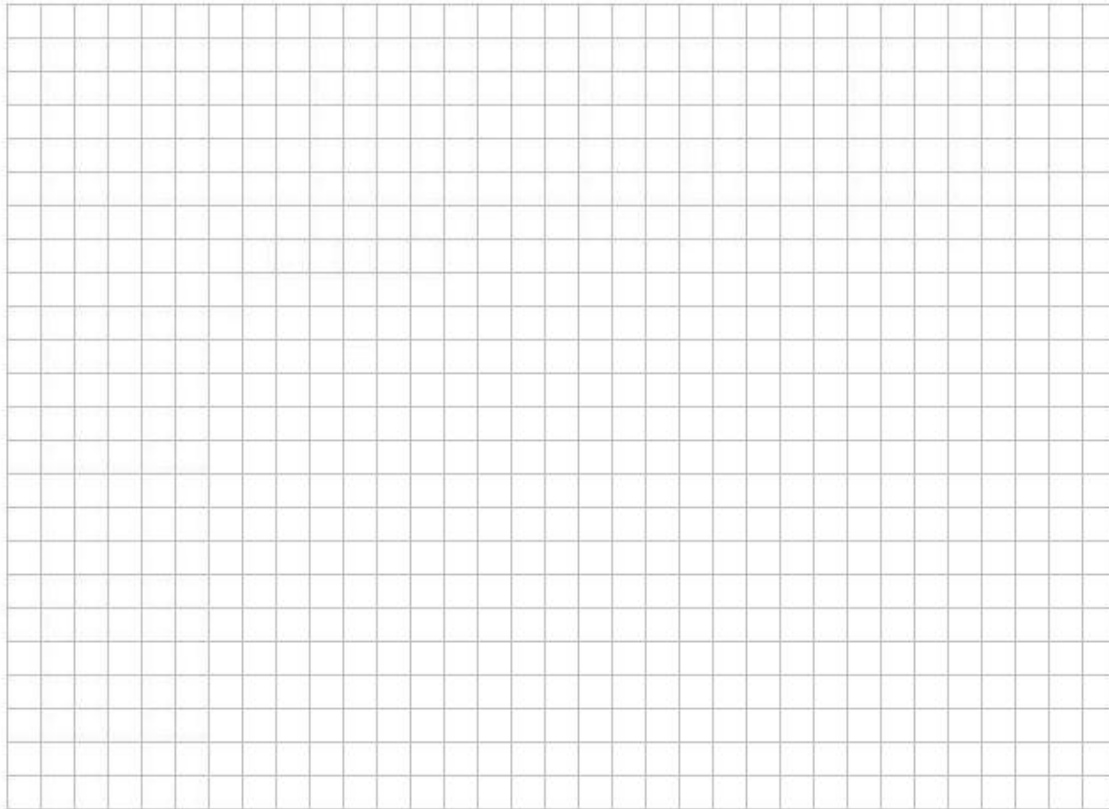
Scouting Results -- Record of Pest Appearance

Pest ID ¹	Location ²	Date	Severity ³	Action ⁴	Result ⁵

¹ Type of pest, if positively identified
² Where pest was found, use numbers from map and describe
³ Severity of outbreak: Number of pests encountered, or Low, Medium, High
⁴ Action taken to control pest. If no action, say none
⁵ Result of action taken to control pest. If no action, describe results.

Map of Back Yard

Include driveways, shrubs, trees, sidewalks, garden areas, and other features



Legend

- | | |
|-----------|-----------|
| 1. _____ | 11. _____ |
| 2. _____ | 12. _____ |
| 3. _____ | 13. _____ |
| 4. _____ | 14. _____ |
| 5. _____ | 15. _____ |
| 6. _____ | 16. _____ |
| 7. _____ | 17. _____ |
| 8. _____ | 18. _____ |
| 9. _____ | 19. _____ |
| 10. _____ | 20. _____ |

Notes: _____

Events That Have Affected Local Environment
(Include lightning strikes, spills, construction, and other events)

Event	Date	Time Length	Results

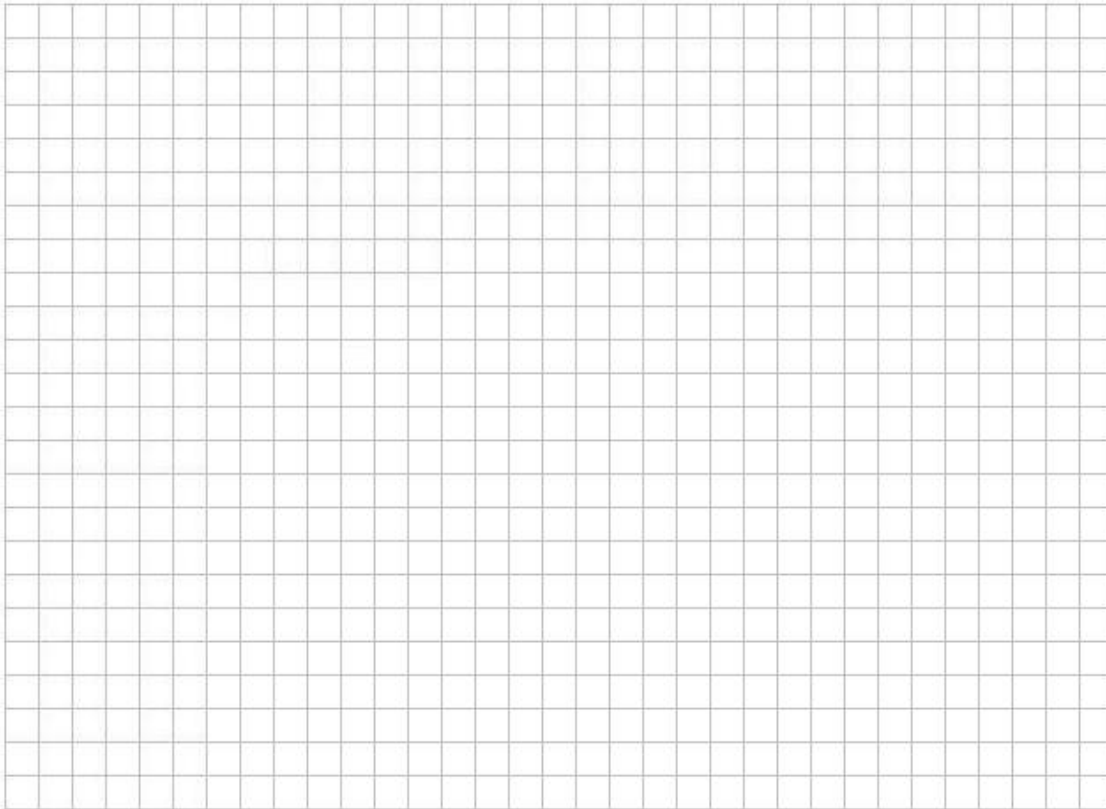
Scouting Results -- Record of Pest Appearance

Pest ID ¹	Location ²	Date	Severity ³	Action ⁴	Result ⁵

¹ Type of pest, if positively identified
² Where pest was found, use numbers from map and describe
³ Severity of outbreak: Number of pests encountered, or Low, Medium, High
⁴ Action taken to control pest. If no action, say none
⁵ Result of action taken to control pest. If no action, describe results.

Map of Outside Area

Include driveways, shrubs, trees, sidewalks, garden areas, and other features



Legend

- | | |
|-----------|-----------|
| 1. _____ | 11. _____ |
| 2. _____ | 12. _____ |
| 3. _____ | 13. _____ |
| 4. _____ | 14. _____ |
| 5. _____ | 15. _____ |
| 6. _____ | 16. _____ |
| 7. _____ | 17. _____ |
| 8. _____ | 18. _____ |
| 9. _____ | 19. _____ |
| 10. _____ | 20. _____ |

Notes: _____

Events That Have Affected Local Environment

(Include lightning strikes, spills, construction, and other events)

Event	Date	Time Length	Results

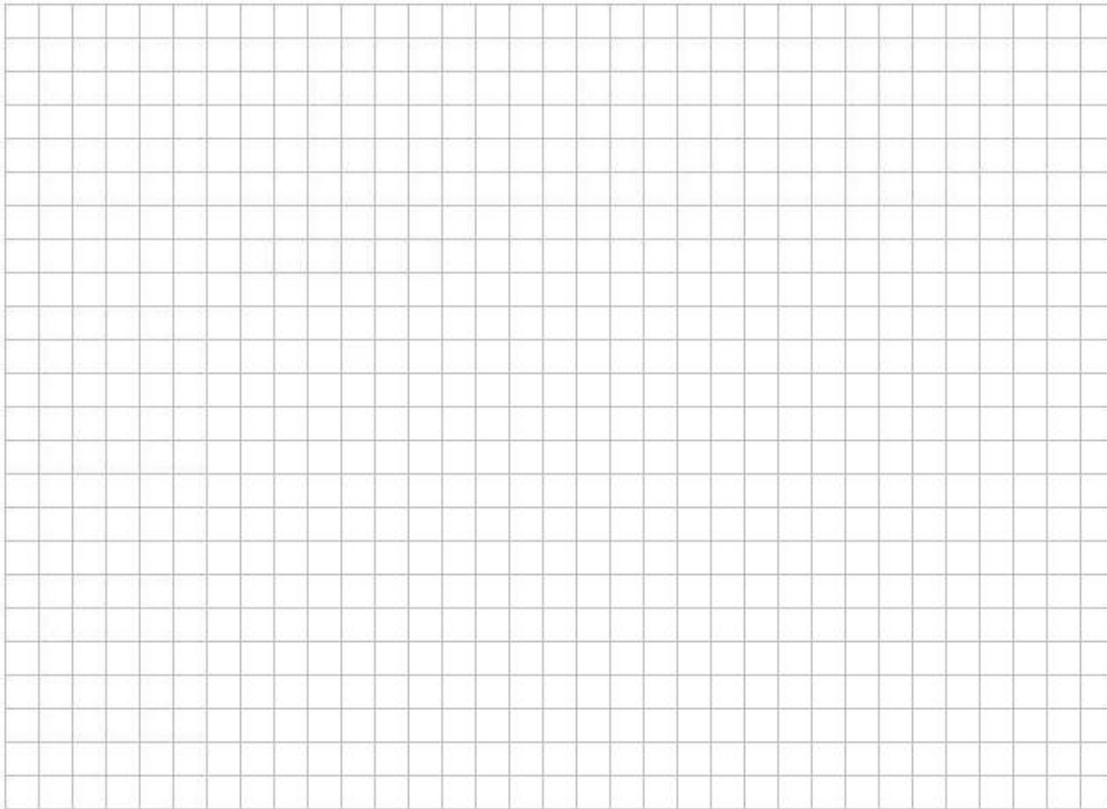
Scouting Results -- Record of Pest Appearance

Pest ID ¹	Location ²	Date	Severity ³	Action ⁴	Result ⁵

- ¹ Type of pest, if positively identified
- ² Where pest was found, use numbers from map and describe
- ³ Severity of outbreak: Number of pests encountered, or Low, Medium, High
- ⁴ Action taken to control pest. If no action, say none
- ⁵ Result of action taken to control pest. If no action, describe results.

Interior of House

General home design, include storage cabinets, electrical outlets, leaky pipes, pantries, bathrooms, etc.



Legend

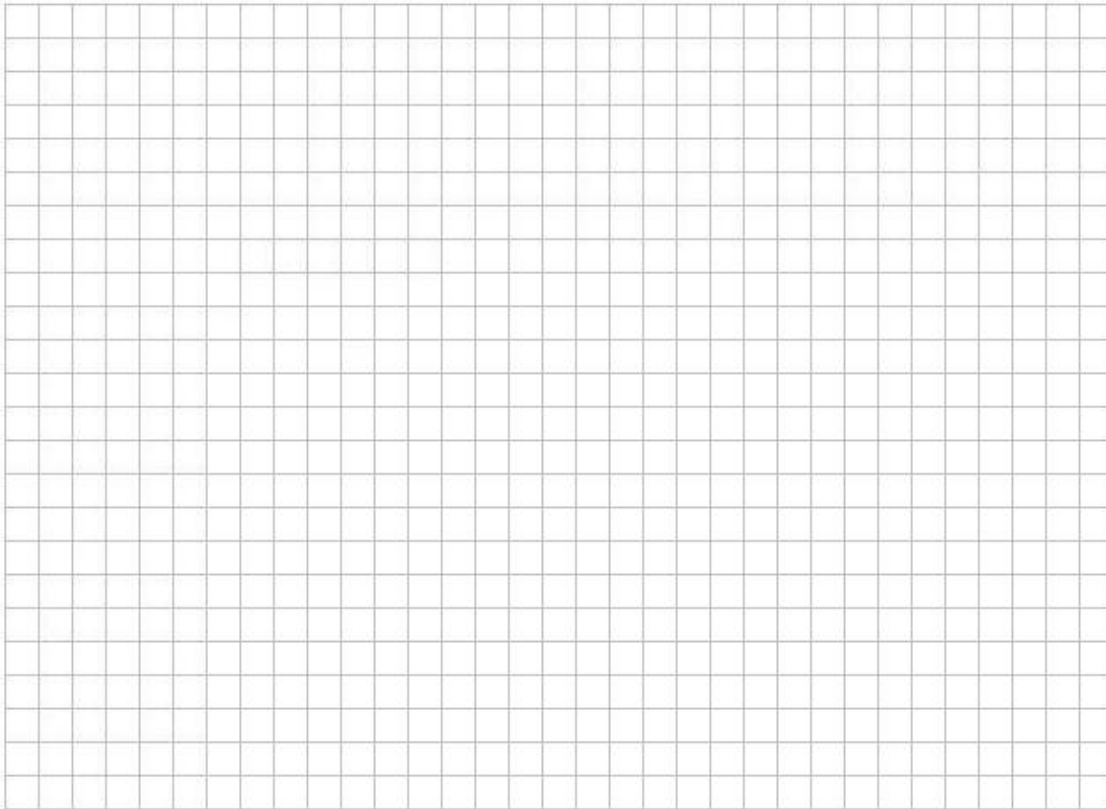
- | | |
|-----------|-----------|
| 1. _____ | 11. _____ |
| 2. _____ | 12. _____ |
| 3. _____ | 13. _____ |
| 4. _____ | 14. _____ |
| 5. _____ | 15. _____ |
| 6. _____ | 16. _____ |
| 7. _____ | 17. _____ |
| 8. _____ | 18. _____ |
| 9. _____ | 19. _____ |
| 10. _____ | 20. _____ |

Notes: _____

Interior of House

Floor/Garage _____

General home design, include storage cabinets, electrical outlets, leaky pipes, pantries, bathrooms, etc.



Legend

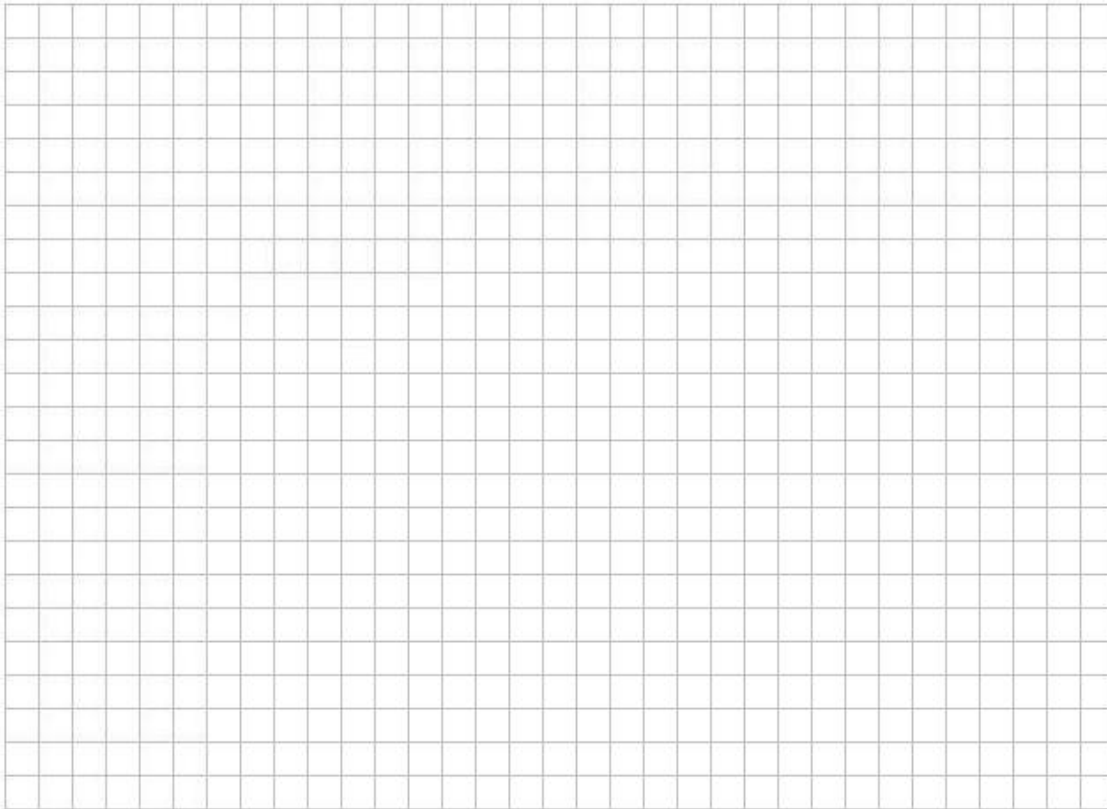
- | | |
|-----------|-----------|
| 1. _____ | 11. _____ |
| 2. _____ | 12. _____ |
| 3. _____ | 13. _____ |
| 4. _____ | 14. _____ |
| 5. _____ | 15. _____ |
| 6. _____ | 16. _____ |
| 7. _____ | 17. _____ |
| 8. _____ | 18. _____ |
| 9. _____ | 19. _____ |
| 10. _____ | 20. _____ |

Notes: _____

Interior of House

Floor/Garage _____

General home design, include storage cabinets, electrical outlets, leaky pipes, pantries, bathrooms, etc.



Legend

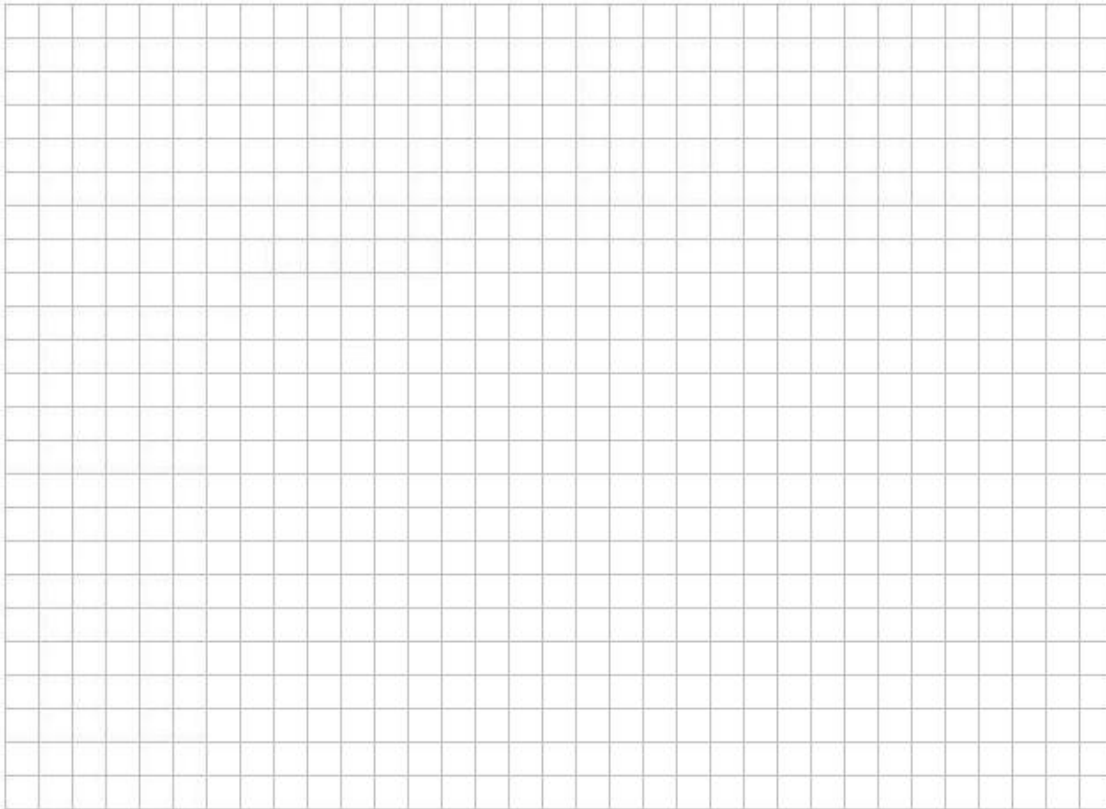
- | | |
|-----------|-----------|
| 1. _____ | 11. _____ |
| 2. _____ | 12. _____ |
| 3. _____ | 13. _____ |
| 4. _____ | 14. _____ |
| 5. _____ | 15. _____ |
| 6. _____ | 16. _____ |
| 7. _____ | 17. _____ |
| 8. _____ | 18. _____ |
| 9. _____ | 19. _____ |
| 10. _____ | 20. _____ |

Notes: _____

Interior of House

Floor/Garage _____

General home design, include storage cabinets, electrical outlets, leaky pipes, pantries, bathrooms, etc.



Legend

- | | |
|-----------|-----------|
| 1. _____ | 11. _____ |
| 2. _____ | 12. _____ |
| 3. _____ | 13. _____ |
| 4. _____ | 14. _____ |
| 5. _____ | 15. _____ |
| 6. _____ | 16. _____ |
| 7. _____ | 17. _____ |
| 8. _____ | 18. _____ |
| 9. _____ | 19. _____ |
| 10. _____ | 20. _____ |

Notes: _____

Events That Have Affected Local Environment

(Include lightning strikes, chemical spills, construction, leaking pipes, and other events)

Event	Date	Time Length	Results

Scouting Results -- Record of Pest Appearance

Pest ID ¹	Location ²	Date	Severity ³	Action ⁴	Result ⁵

- ¹ Type of pest, if positively identified
- ² Where pest was found, use numbers from map and describe
- ³ Severity of outbreak: Number of pests encountered, or Low, Medium, High
- ⁴ Action taken to control pest. If no action, say none
- ⁵ Result of action taken to control pest. If no action, describe results.

General Scouting Plan

Location of Test Sites

Front Yard:

Site Number	Description	Method	Frequency

Comments: _____

Back Yard:

Site Number	Description	Method	Frequency

Comments: _____

Location of Test Sites

Outside Area

Location: _____

Site Number	Description	Method	Frequency

Comments: _____

Outside Area

Location: _____

Site Number	Description	Method	Frequency

Comments: _____

Outside Area

Location: _____

Site Number	Description	Method	Frequency

Comments: _____

Outside Area

Location: _____

Site Number	Description	Method	Frequency

Comments: _____

Inside House

Floor _____ Garage _____ Attic _____ Basement _____ Crawl space _____

Site Number	Description	Method	Frequency

Comments: _____

Inside House

Floor _____ Garage _____ Attic _____ Basement _____ Crawl space _____

Site Number	Description	Method	Frequency

Comments: _____

Inside House

Floor _____ Garage _____ Attic _____ Basement _____ Crawl space _____

Site Number	Description	Method	Frequency

Comments: _____

Inside House

Floor _____ Garage _____ Attic _____ Basement _____ Crawl space _____

Site Number	Description	Method	Frequency

Comments: _____

Inside House

Floor _____ Garage _____ Attic _____ Basement _____ Crawl space _____

Site Number	Description	Method	Frequency

Comments: _____

Other Area

Description: _____

Site Number	Description	Method	Frequency

Comments: _____

Pesticide Emergency Phone Numbers

Name of Pesticide	Manufacturer's Name & Address	Emergency Phone #

Emergency Phone Numbers

Fire, Police, Ambulance ----- 911
Poison Control Center ----- 1-800-222-1222
 Underground or Aboveground Storage Tank
 Environmental Response Team ----- 502-564-2150, ext, 581
 1-800-928-2380
 Call Before You Dig ----- 1-800-752-6007
 Louisville Gas & Electric
 Downed electric lines ----- 589-3500
 Natural Gas Emergency ----- 589-5511
 Metropolitan Sewer District ----- 587-0603
 National Poison Control Center ----- 1-800-222-1222
 Terrorist Activity, FBI ----- 583-3941, Press "0"

To Report an Environmental Emergency

Louisville Regional Office, Environmental and Public Protection Cabinet:
 Division of Waste -- 502-429-7120
 Division of Water -- 502-429-7122
Non-working pump-out station at a marina, or other marine emergency:
 River Patrol Unit -- 502-574-2139
 US Coast Guard -- 502-582-5194
 KY Dept. of Fish & Wildlife -- 270-257-8170
Spill or other Environmental Emergency ----- 911
Louisville Water Company ----- 569-2700

For More Information

Wellhead Protection:

Louisville Water Company -- 502-569-3600, ext. 1809
KY Pollution Prevention Center -- 1-800-334-8635
 502-852-0965

On-site technical assistance
 Kentucky Materials Exchange
 Pollution Prevention Training
 Environmental Management Systems
<http://www.kppc.org>

Hazardous Wastes:

KY Division of Waste Management -- 502-564-6716

Groundwater Protection Plans:

KY Division of Water -- 502-564-3410

UIC Class V Wells, (includes dry well septic systems):

USEPA Region 4, Atlanta, GA -- 404-562-9307

Louisville Jefferson County Metro Health Dept.
502-574-6520

Closing Water Wells in KY:

Well Drillers Certification Program -- 502-564-3410

Pesticides and Integrated Pest Management Systems:

Jefferson Co. Cooperative Extension Service --
502-425-4482

Underground Storage Tanks

KY UST Branch -- 502-564-6716

To identify specific pests in your home/business:

http://www.preventech.cc/bug_database/bug_database.htm

Calculating the Percentage of Active Ingredients in Pesticides

In Chapter 6, Table IV - Common Weeds Listed by the Kentucky Department of Agriculture, the pesticide recommended for use by the US EPA is glyphosate—the active ingredient found in many commercially available, general use herbicides. This table lists various common weeds, and describes recommendations for the use of glyphosate as an herbicide, in various percentages, depending on the weed type.

Calculating the actual percentage of the active ingredient can be difficult. For that reason, a formula has been developed that will help the homeowner determine the percentage of any active ingredient in a pesticide, when mixing with water for a hand-held sprayer.

Many pesticides, (i.e. glyphosate), may come in a pre-mixed package, with a sprayer. The percentage of the active ingredient will be listed on the label. As with all liquid, sprayable pesticides, be sure to **READ THE LABEL**, and **follow all directions**. Do not spray on a windy day, and try to prevent drift of the spray onto other desirable plants. In some cases, it can be better to control the actual application of the pesticide by using a paint brush to “paint” the liquid herbicide on the undesirable plant. Remember to spot treat, instead of a wide application, as desirable plants may be killed.

$$\%P = A/g \times p$$

%P = Percentage of the active ingredient

A = Amount, in ounces, of the pesticide product, per gallon of water

g = One gallon of water, (128 ounces)

p = Percentage of the pesticide in the original solution used in the mix.

For example, the homeowner purchases a bottle of 50% glyphosate solution, and owns a 2 gallon sprayer. The directions on the bottle read, “Mix 5 ounces of glyphosate solution per gallon of water.” Using the formula above, the homeowner calculates the actual percentage of the active ingredient, (in this case, glyphosate), that is to be applied to the weed.

$$\begin{aligned}\%P &= A/g \times p \\ \%P &= 5 \text{ oz.}/128 \text{ oz} \times 50\% \\ &= 1.9\%\end{aligned}$$

According to the directions, the homeowner should use 10 ounces of the concentrated glyphosate product mixed with 2 gallons of water. If the homeowner follows directions, he is using a 1.9% glyphosate mix, which is nearly equal to the minimum amount of glyphosate required to kill the weed.