Demonstrating How to Navigate the UC IPM Home and Garden Web pages—Activity Instructions and Learning Objectives

For the instructor/facilitator:
The goal of this activity is to illustrate the features of the UC IPM web pages while showing users how to navigate the site. The ideal situation for this activity is to have each person sitting in front of their own computer to follow along as the facilitator shows the web features followed by hands-on time answering a series of learning exercises.


Three ways to conduct the UC IPM Web site activity:

1) Reserve a computer lab room in a local university, college, or high school. There should be one computer for each person and a teaching computer and projector for the instructor. Make sure (beforehand) the facility has Internet access and that all computers are in working order. Go over sections #1-3 in the instructions that follow, then have audience do the exercises while you roam around the room and facilitate. Be sure to leave time at the end to go over answers to exercises.

2) Using a hall or meeting room that has wireless Internet access, set up one laptop computer for each participant or ask participants to bring their own laptops. Make sure they are all able to connect to open wireless networks—Check this beforehand to avoid problems the day of the training!!!!

3) Set up one computer/projector to show your audience how to navigate the UC IPM web site without each participant having their own computer. Your audience will see the features of the web site, but will not have the hands-on component. Give them the “Exercises” handout to take home and practice using the IPM Web site themselves. Provide answer sheet or go over during next meeting. Cover as much of the following features as you can in the amount of time you have.

To duplicate the hands-on activity from the 2009 Advanced IPM for MGs workshops, you will need between 1 and 1 ½ hours. If you will show the IPM web site features without the hands-on portion, you will still need about 45 minutes to an hour. Practice your presentation first! If you need any help, please call Karey Windbiel-Rojas at (530) 752-3941 or email kwindbiel@ucdavis.edu.

Materials needed:

| - Internet access                      | - UC IPM web page handout |
| - Teaching computer                    | - Computer for each participant (laptop or desktop), if doing as a hands-on activity |
| - Computer projector                  | - Weed specimens for hands-on exercise (optional) |
| - “Exercises” handout                 |                           |

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Demonstrating the UC IPM Web pages

Start at UC IPM Home page URL: www.ipm.ucdavis.edu

Explain the general purpose, scope, and audience for the various UC IPM pages.

Focus of this training will be on “Homes, gardens, landscapes and turf” where MGs and the general public should go to find the most appropriate info for pests in the home and landscape.

Use to the Home & Garden (H&G) menu pages for the rest of the session. http://www.ipm.ucdavis.edu/PMG/menu.homegarden.html

Note: The H & G web pages contain a great deal of information. You may not have time to cover all the features detailed in the instructions below. At the very least, cover #1, 2, and 3. If doing as a hands-on activity (participants using computers during training) go over #1-3 and the exercises will lead them to the other features.

1. Briefly discuss items and organization of the Home & Garden menu page

Touch on each feature on this page, but demonstrate each section separately later on in the training.

- **Pests in the home**
  - Household pests that bite, sting, destroy wood/fabric, nuisance pests

- **Pests in gardens and landscapes**
  - Search for a pest by plant type to narrow down the most likely culprit causing the damage. Categories contain 100s of common plants, trees, fruits, and vegetables grown in California. **(Illustrate how to use this later in #2)**
  - Search for a pest by the category it belongs to if you already know your pest or know what group it belong to (insect, weed, vertebrate, etc.). Links in this section will take you to the list of Pest Notes in each category. Note—if a pest is not listed on one of these pages, there is still probably information on that pest, just no formal Pest Note. **(Discuss Pest Notes in #3)**
• **Pesticide information section**
  a. Pest Notes related to pesticides
  b. Pesticides and Water Quality pages
  c. Information on specific pesticides—list and info about the least toxic pesticides recommended in the Pest Notes and other pages.
  d. Other resources--Pesticide resources from other institutions/agencies

• **More information section**
  a. Identification helpers—where you will find ID keys and photo galleries such as the Natural Enemies Gallery and Weed Photo Gallery *(Discussed more in #5)*
  b. IPM kiosk page
  c. Link to Statewide Master Gardener web site
  d. Exotic and invasives page link
  e. What is IPM? page—good explanation of what IPM means along with examples

• **Blue bar/Gold bar**
  o Toward the top of the H&G menu page the Blue Bar has useful links to many other important pages. Link to Pest Note index page, Quick Tips pages (English and Spanish), and Recent changes to Pest Notes and QTs.
  o Many other pages have a Gold Bar at the top with links to other places.

• **Left-hand column**
  o Left column will show on nearly all UC IPM web pages. The column has quick links back to H&G main menu page (along with Ag, Exotics, etc), but also has links to Natural Enemies Gallery and Weed Photo Gallery.
  o “Educational programs” section contains links to IPM-related publications, workshops and the free online training courses (found under “Training programs”).

• **Search bar** (point out now, but you may want to explain the best use of it later when discussing Pest Notes in #3)
  o Search function is on most pages within the H&G pages under the Blue bar or Gold bar. Searches only the home and garden section, but if searching from the search page (see image below) you will have to specify where to search (i.e., home and garden, ag pages, or all. The default is “All pages”)

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Search UC IPM

Once a search yields results, you will see the search page (left). If you do another search from here, you must specify “Pest info for home and garden”

- Use the Search bar to find something you are having trouble locating, but don’t let this be the ONLY way you find information on the UC IPM web site. **Example:** we do not have a Pest Note on mealybugs, but if you do a search using the Search function, you will find 5 pages with information on mealybugs along with other pages containing the word “mealybugs”
- When using Search, correct spelling is important! The IPM site does not act like other search engines that will ask, “Did you mean …” and give you word suggestions. Also, use quotations if searching for more than one word. Example: if searching for Peach Leaf Curl, if you don’t use quotes you will get results for every use of the words “leaf”, “peach”, and “curl”. So type in “peach leaf curl”.

[Go back to the main Home & Garden menu page at the start of each numbered sections below]

2. **Searching for pest by plant type**
Use this search method when you know what plant you have but don’t know what pest is attacking it. On each plant page in this section, a table will list the common pests of that plant to help you narrow down the possibilities.

   a. If searching for a pest on (for example) Sycamore, you would look under “Trees and shrubs” then scroll (or use letters near top of table) to Sycamore. On Sycamore page you find probable pests and disorders for this plant. The list will narrow down the pests causing damage. Pest names will link either to a Pest Note or a shorter info page with pictures to help you verify that you have correctly identified your culprit.

   b. **Fruit trees/nuts** pages and **vegetable/melon** pages also have useful cultural tips along with the list of possible damage-causing pests and abiotic disorders.

   c. **Lawns and turf** will lead you to a menu of many turf-related resources such as the UC Guide to Healthy Lawns, various Pest Notes on turf pests, a **Key to Identifying Turfgrasses**, and a **Key to Identifying Weeds**.

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Pests in gardens and landscapes

Choose a plant to find the most likely source of your pest problem
- Flowers
- Fruit trees, nuts, berries, and grapevines
- Lawns and turf—including comprehensive lawn guide
- Trees and shrubs—including roses and other ornamentals
- Vegetables and melons

Some common pests and methods (Pest Notes library)
- Birds, mammals, and reptiles—vertebrate pests
- Insects, mites, mollusks, and nematodes—invertebrate pests
- Plant diseases
- Weeds
- Management methods including pesticides and biological control
3. **Searching by known pest and Pest Notes**

- If you already know the name of your pest or at least what category it belongs to, look under “Some common pests and methods (Pest Notes library)”. Select the appropriate pest group, and view a list of Pest Notes in that category. Or, search the whole list of Pest Notes in the PN index/library: [http://www.ipm.ucdavis.edu/PDF/PESTNOTES/index.html](http://www.ipm.ucdavis.edu/PDF/PESTNOTES/index.html)

- Briefly discuss what Pest Notes are (see paragraph at the top of the index page).
  a. Index is organized by pest category.
  b. Download a colorful flyer with list of all Pest Note titles to print and give out at community events.
  c. In the Gold Bar, can see list of recent changes to Pest Notes and Quick Tips.
  d. Two formats to view Pest Notes: HTML (online) version with photos and hyperlinks; PDF format for printing.
  e. In each Pest Note online:
     - Link to the Quick Tip associated with that Pest Note
     - PDF format for printing
     - Link to Spanish Quick Tip if one exists
     - Use links under “In this Guideline” (underneath PN title) to jump down to specific sections
     - Warning on use of chemicals at the bottom of every PN

There are currently about 150 Pest Notes on the UC IPM Web site, but information on more than 800 pests. If you cannot find a Pest Note on the pest you are looking for, use the Search bar, since there is most likely informational pages on the pest you want, just not a formal Pest Note. **Example:** we do not have a Pest Note on caterpillars, but if you do a search using the Search function, you will find more than 100 pages on various caterpillars. Different species of caterpillars attack different plants, and they aren’t all referred to as “caterpillars”, so a simple search may not yield the results you want. In this case, the best thing to do is to go back to the main H&G menu and search for your pest by plant type (the plant being damaged). For instance, if your plant is a peach tree, look under “Fruit trees” and “Nectarine and Peaches” and you will see that about 10 types of moth and butterfly larvae (which are sometime called caterpillars, leafrollers, fruitworms, and cutworms) attack those trees.
4. **UC Guide to Healthy Lawns**

Go to lawn and turf menu (under search by plant type section of H&G menu page, and click on “Lawns and turf”). Resources and Pest Notes related to lawn and turf care are listed: [http://www.ipm.ucdavis.edu/PMG/menu.turf.html](http://www.ipm.ucdavis.edu/PMG/menu.turf.html)


b. Point out different topics of lawn care on the menu page, focusing on “Lawn care for established lawns” and “Manage pests and diagnose problems”

c. Select “Lawn care for established lawns,” and point out what’s included under each topic in the right-hand box. Two items to point out (if time allows) are the irrigation scheduling calculator and fertilizer calculator; both are questions on the “Exercises” handout. Go through the “Interactive program to schedule your irrigation” which allows the user to customize their watering schedule based on turfgrass type, growing climate (region), and sprinkler output. [http://www.ipm.ucdavis.edu/TOOLS/TURF/MAINTAIN/irrsched.html](http://www.ipm.ucdavis.edu/TOOLS/TURF/MAINTAIN/irrsched.html)

There is a PDF called “Lawn Watering Guide for CA” that has the same information and is useful to print, but use the interactive online program for this activity.

d. Go to the Fertilizing page and find the interactive calculator to determine how much material to use. [http://www.ipm.ucdavis.edu/TOOLS/TURF/MAINTAIN/fertamt.html](http://www.ipm.ucdavis.edu/TOOLS/TURF/MAINTAIN/fertamt.html)

The user enters in turfgrass species, selects a rate within the recommended range, the minimum # of planned applications for the year, % nitrogen in the product, and the lawn size.

There is a PDF called “Practical Lawn Fertilization” that has the same information and is useful to print, but use the interactive online program for this activity.

e. On any page within the Lawn Guide, you can use the Gold Bar to visit the “Index to Contents.” [http://www.ipm.ucdavis.edu/TOOLS/TURF/contents.html](http://www.ipm.ucdavis.edu/TOOLS/TURF/contents.html). Because it’s easy to get lost in the Healthy Lawns Guide, the index to contents show everything in the Lawn Guide so a user can easily find what they are looking for.


Find pests and abiotic disorders that may be causing damage in lawns.

A link to the “Key to identifying weeds” is also in this section.

g. To go back to the main UC Guide to Healthy Lawns menu page, click on “Lawn Guide” in the breadcrumbs toward top of the page.
5. **Identification Helpers (bottom of H&G menu page)**


   - Weed photo gallery
   - Natural enemies gallery
   - Key to Identifying Weeds
   - Key to turfgrasses
   - Ant key (also found in Ant Pest Note)

**Key to Identifying Ants**
Select “Begin key” to ID your ant species and find the right way to manage them.

**Photo galleries**
- Weed Photo Gallery
- Natural Enemies Gallery

**Keys to identification**
- Ants
- Aphids, on cotton and alfalfa
- Aphids, on small grains and corn
- Turfgrasses
- Weeds in turfgrass

**Key to Identifying Turfgrass**

Knowing your turf type is important for proper lawn care.

Selecting “Begin key” to ID your turfgrass.

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**Weed Photo Gallery**
Photos and management info for over 100 common weeds in CA.

**NE Gallery**
Click on the common name to see photos and more info. Sort the list in 4 ways, but sort “By pest” may be most useful (in Gold bar).

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**Key to Identifying Ants**
Select “Begin key” to ID your ant species and find the right way to manage them.

**Key to Identifying Weeds**
ID weeds by selecting “Begin key” then click on the pictures in the middle of the screen to select the feature.

**Key to Identifying Turfgrass**
Knowing your turf type is important for proper lawn care.

Selecting “Begin key” to ID your turfgrass.

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6. **Special (“secret”) Master Gardener pages**

   This page is only for UC Master Gardeners, not the general public. [http://www.ipm.ucdavis.edu/FAQ/mgipm.html](http://www.ipm.ucdavis.edu/FAQ/mgipm.html)

Mention this page AFTER going over all the other features of the web site and/or having MG do the Exercises. MGs need to understand how to the general public will be able to find information on the UC IPM web site so they can help guide them when over the phone, etc. The special MG pages have quick links to places on the H & G web pages that will help them access info easier, especially when on the hotline/helpline. The special MG pages also have information and documents meant ONLY for UC Master Gardeners, including training materials and activities, the kiosk reservation form, ordering Quick Tip cards.

- Materials are posted from the 2009 “**Advanced IPM Training for UC Master Gardeners**” workshops that were held in Cupertino, Davis, Fresno, and Riverside: [http://www.ipm.ucdavis.edu/FAQ/mgadvanced.html](http://www.ipm.ucdavis.edu/FAQ/mgadvanced.html)
- **Kiosk** reservations and additional kiosk facts for MGs: [http://www.ipm.ucdavis.edu/FAQ/mgkiosk.html](http://www.ipm.ucdavis.edu/FAQ/mgkiosk.html)
- Other training materials and DVDs: [http://www.ipm.ucdavis.edu/FAQ/mgdvdtraining.html](http://www.ipm.ucdavis.edu/FAQ/mgdvdtraining.html)

Access the special page from the Statewide MG web site: [http://camastergardeners.ucdavis.edu/](http://camastergardeners.ucdavis.edu/). In the left-hand column, click on “for Volunteers” and IPM for Master Gardeners (3rd bullet down).

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**Other features to show (if time allows):**

- **Online retail training courses** [http://www.ipm.ucdavis.edu/IPMPROJECT/edprogramsmenu.html](http://www.ipm.ucdavis.edu/IPMPROJECT/edprogramsmenu.html)

  Link found in left-hand column under “Educational Resources”, “Training programs”
- **What is IPM? page:** [http://www.ipm.ucdavis.edu/GENERAL/whatisipmurban.html](http://www.ipm.ucdavis.edu/GENERAL/whatisipmurban.html)

  Link from H & G menu page. Defines IPM and gives examples. Click on “Printer-friendly version” to print as a handout (2 pages).

- For a 3-minute narrated tutorial of how to navigate the Home & Garden pages, click on “Take the Tour” on the main H & G just under the Blue bar and to the right of the Search bar.
- Most photos on the UC IPM web site can be enlarged when you click on them from a Pest Note, ID helpers, photo galleries, etc.
- Many of the images on the UC IPM website are also found in the ANR Repository.
- Most pages can be printed by clicking on the “Printer-friendly version” link at the top right hand corner of the page. If the page you are viewing says “PDF to print” the format will be slightly different and in the case of Pest Notes, most photos will be in black and white.
- **“Breadcrumbs”** at the top of most pages will lead the user back to where they may have started a search.