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Create A Balance



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Less Than 1% Available




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History of the Problem

- 1991 Toxicity detected in urban creeks
- 1993 Toxicity detected in wastewater effluent
- Diazinon
- Chorpyrifos




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Action Taken

- 1998 Using Clean Water Act Authority
- Waterways were declared impaired
- TMDL'S were established
- Outreach to users



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Our Water Our World

- Developed by clean water agencies in 1997
- Targets the urban user-residents . Home gardeners, pest control operators in and around homes , schools, businesses
- Point of purchase
- IPM Partnership

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Fact Sheets in Literature Rack



Pesticide Use In and Around Buildings





J. West / MSNBC

Less Chemicals = Healthy Gardens


- More Beneficial Insects
- More Birds
- More microbial activity in the soil



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What is IPM?


- The whole system approach
- Trouble shooting pest problems
- Monitoring is the key
- Cultural
- Physical
- Biological
- Chemical



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Monitoring and Records

- Pay attention....monitor on a regular basis
- Keep records: Infestations recur, as do beneficial responses



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Cultural Controls

- Plant choices
- Fertilizing
- Pruning



Physical Controls for Pests

- Caulking
- Repair screens
- Repair weather stripping
- Repair vents



Physical Controls for Pests Outdoors



- Syringing
- Hand picking
- Sticky barriers
- Physical barriers

Biological Controls



Chemical Controls



- The least toxic but effective first

Lawn Insects and Diseases



“Golden Rule”
(Source: UCIPM
Healthy Lawns)

- Most problems in lawns are not caused by insect and disease- causing pathogens. Damage is more likely the result of poor turfgrass selection or improper maintenance practices.
- Providing proper care and using appropriate turfgrass species can prevent the majority of lawn problems.

Creating a Habitat for Wildlife

- Food
- Water
- Shelter
- A Place to Raise Their Young



Beneficial Insects are your best friends

- Beneficials need food sources like aphids to survive
- Beneficials increase as chemical use decreases
- Some adult beneficial insects need nectar sources for food so plant plants that attract them



Argentine Ants



Aphids



Lacewing Adult



Lacewing Larva



Minute Pirate Bug



UC Statewide IPM Project
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Ladybug Adults and Larvae



Soldier Beetles









Garden Snails



Rose Diseases and Pests

- Select resistant varieties
- Monitor for damage
- Sanitation
- Fertilizers
- Mulching
- Syringing
- Traps
- Beneficial Insects



Black Spot


- Select resistant varieties
- Look for leaf damage
- Hand pick
- Mulch
- Preventive spray



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Rust

- Pick resistant varieties
- Look for leaf damage
- Hand pick
- Mulch
- Preventive spray



A close-up photograph of green leaves showing small, reddish-brown spots, which are characteristic of rust disease.

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Powdery Mildew

- Pick resistant varieties
- Syringe early in day
- Hand pick damaged
- Mulch
- Preventative spray



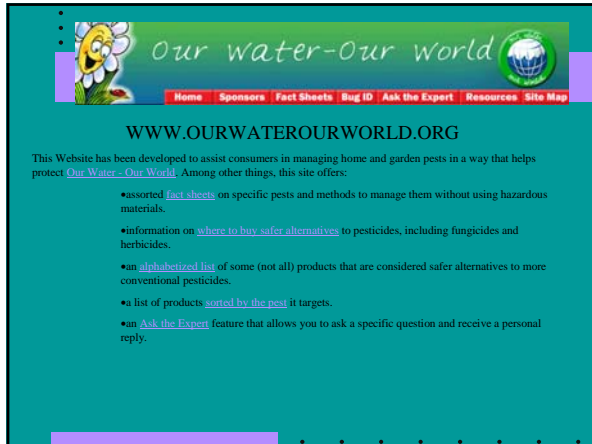
A photograph of green leaves covered in a white, powdery substance, indicating the presence of powdery mildew.

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Maintaining a Successful Program



A photograph of a small bird perched on a bare, thin branch against a clear blue sky.



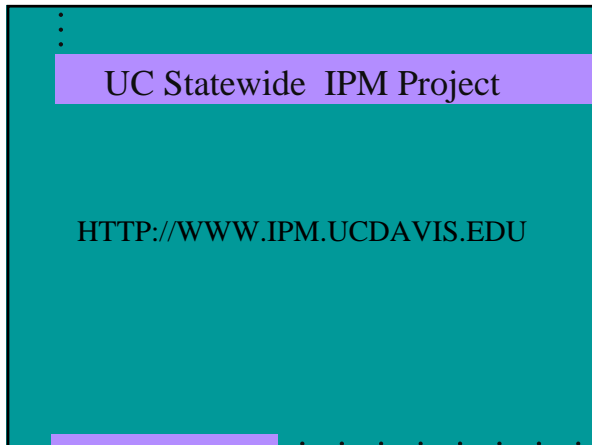
Our water-Our world

Home Sponsors Fact Sheets Bug ID Ask the Expert Resources Site Map

WWW.OURWATEROURWORLD.ORG

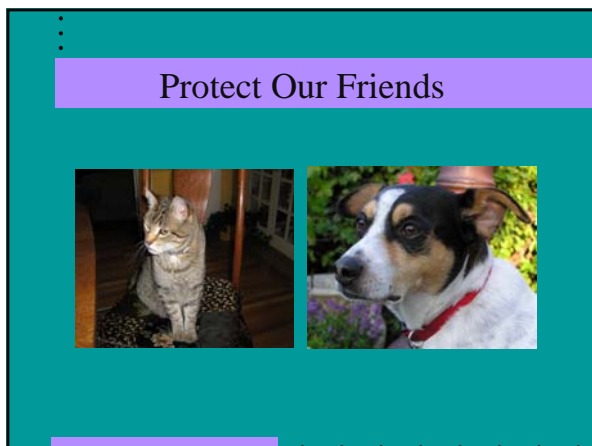
This Website has been developed to assist consumers in managing home and garden pests in a way that helps protect [Our Water - Our World](#). Among other things, this site offers:

- assorted [fact sheets](#) on specific pests and methods to manage them without using hazardous materials.
- information on [where to buy safer alternatives](#) to pesticides, including fungicides and herbicides.
- an [alphabetized list](#) of some (not all) products that are considered safer alternatives to more conventional pesticides.
- a list of products [sorted by the pest](#) it targets.
- an [Ask the Expert](#) feature that allows you to ask a specific question and receive a personal reply.



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HTTP://WWW.IPM.UCDAVIS.EDU



Protect Our Friends

