



NPS Pollution Prevention BMP E-Education FY09-1700

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Washington County Cooperative Extension Service

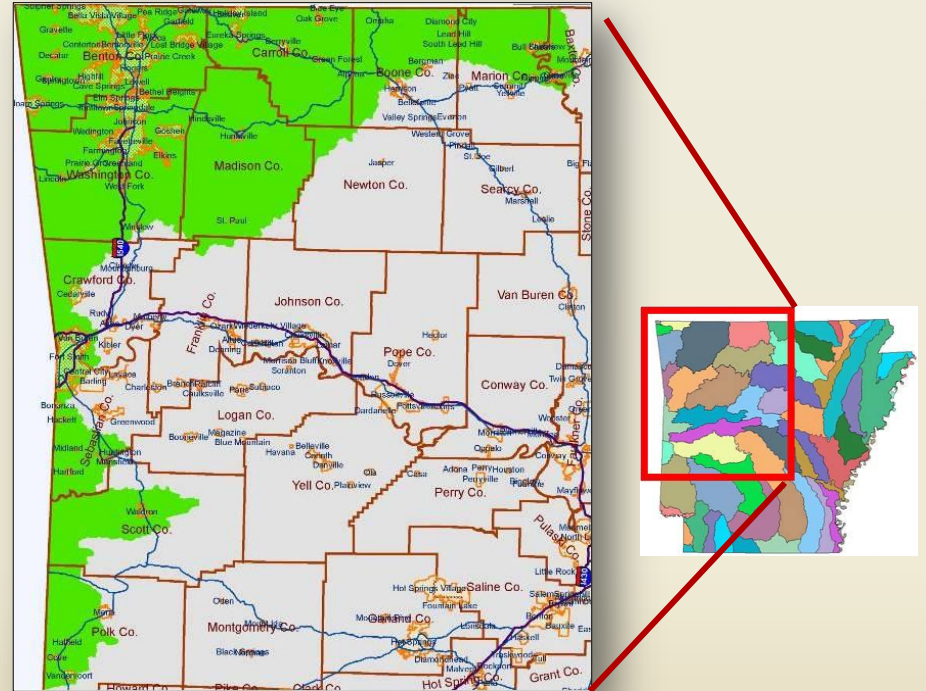


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Project Goals/Objectives:

Develop and use electronic teaching tools to reduce nutrient nonpoint source pollution in NSA watersheds



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Task 1: Nonpoint source pollution prevention BMP podcasts

Develop and post a series of 2- to 10-minute video podcasts to educate the public about the ease and effectiveness of NPS pollution prevention homeowner BMPs



Developed 19 Educational Water Quality Video Podcasts

- ✓ Soil testing
- ✓ Measure your lawn/garden
- ✓ Purchasing type/amount of fertilizer
- ✓ Fertilizer spreader calibration
- ✓ Composting
- ✓ Yard waste management
- ✓ Lawn and garden Integrated Pest Management (IPM)
- ✓ Build/use rain barrels
- ✓ Create/use rain gardens
- ✓ Household hazardous waste (HHW) management
- ✓ Pet waste management
- ✓ Riparian buffer function, improvement, maintenance
- ✓ What is water quality?
- ✓ What are watersheds?
- ✓ Stormwater runoff
- ✓ Creek clean participation

Link to podcasts:

www.uaex.edu



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Washington County Podcasts - Water Quality

County Extension Agent John Pennington discuss items related to water quality

- [Composting to Protect Water Quality \(6:03 minutes\)](#)
- [Grasscycling to Protect Water Quality \(3:36 minutes\)](#)
- [Household Hazardous Waste Management to Protect Water Quality \(4:39 minutes\)](#)
- [How to Build a Rain Barrel to Protect Water Quality \(7:28 minutes\)](#)
- [How to Build a Rain Garden to Protect Water Quality \(6:03 minutes\)](#)
- [How to Calibrate the Fertilizer or Pesticide Spreader to Protect Water Quality \(9:38 minutes\)](#)
- [Integrated Pest Management to Protect Water Quality \(6:44 minutes\)](#)
- [Measuring the Yard to Protect Water Quality \(4:17 minutes\)](#)
- [Participating in Creek Cleanups Can Help Protect Water Quality \(2:47 minutes\)](#)
- [Protecting Water Quality by Properly Managing Pet Waste \(2:20 minutes\)](#)
- [Protecting Water Quality from Stormwater Runoff \(4:22 minutes\)](#)
- [Riparian Buffers for Protecting Water Quality \(3:09 minutes\)](#)
- [Soil Testing to Protect Water Quality \(2:39 minutes\)](#)
- [Understanding Fertilizers to Protect Water Quality \(5:48 minutes\)](#)
- [Using Rain Barrels to Protect Water Quality \(2:57 minutes\)](#)
- [Using Rain Gardens to Protect Water Quality \(3:24 minutes\)](#)
- [What is Water Quality \(2:38 minutes\)](#)
- [What is a Watershed \(5:51 minutes\)](#)
- [Yard Waste Management to Protect Water Quality \(1:36 minutes\)](#)

Podcast Viewership

Report for Washington County Water Quality Podcasts - www.UAEX.edu

Time range: 1/26/2012 12:19:37 - 9/17/2012 10:20:44

Generated on Mon Sep 17, 2012 - 11:29:51

21,289 - Total hits

90 – Average hits per day

6.77 Total hits per visitor

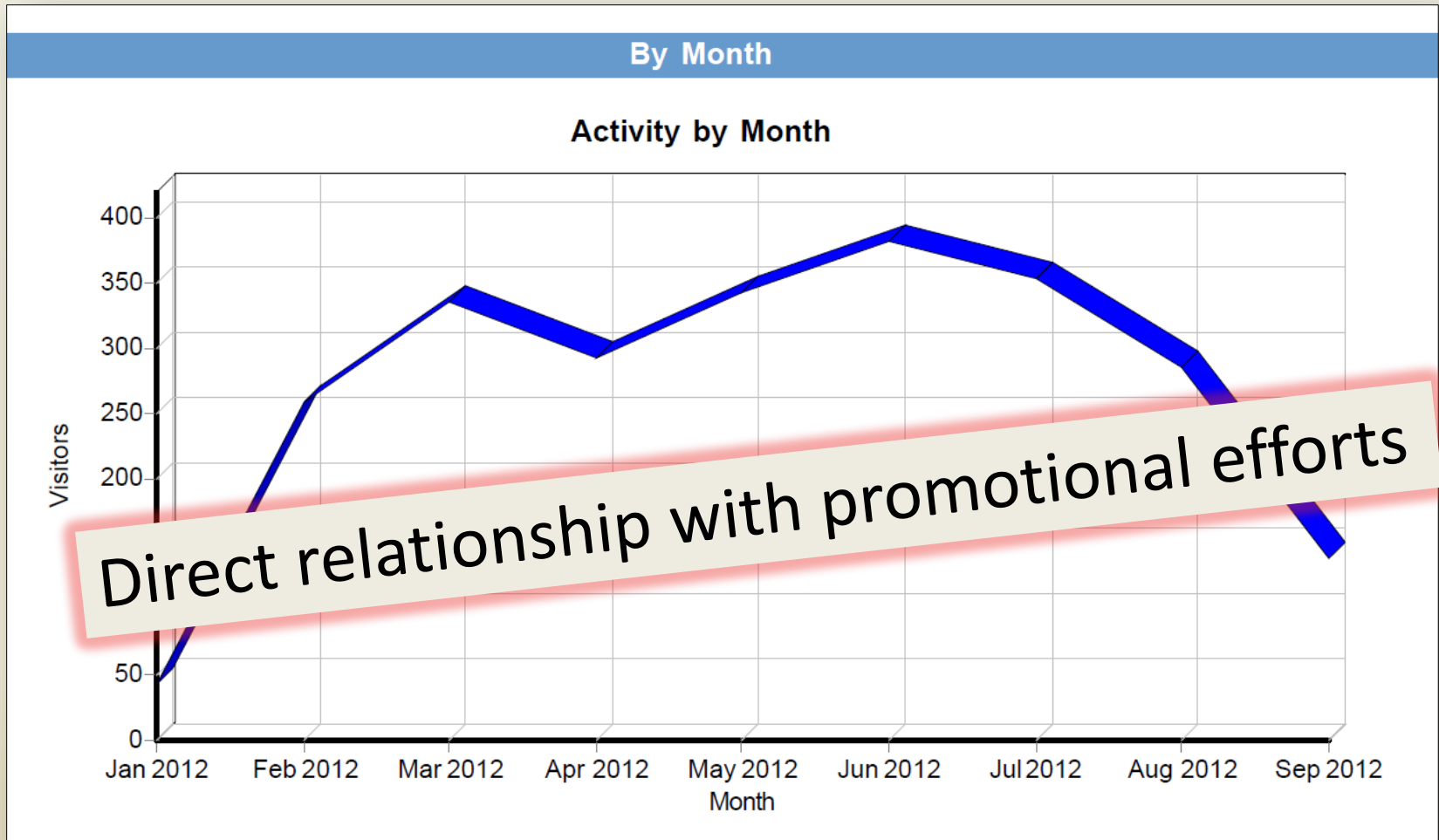
Total Hits	21,289
Visitor Hits	16,450
Spider Hits	4,839
Average Hits per Day	
Average Hits per Visitor	
Cached Requests	
Failed Requests	
Page Views	
Total Page Views	
Average Page Views per Day	
Average Page Views per Visitor	4.19
Visitors	
Total Visitors	2,430
Average Visitors per Day	10
	1,870
	170.48 GB
	165.14 GB
	5.34 GB
	739.72 MB
	8.20 MB
Average Bandwidth per Visitor	69.59 MB

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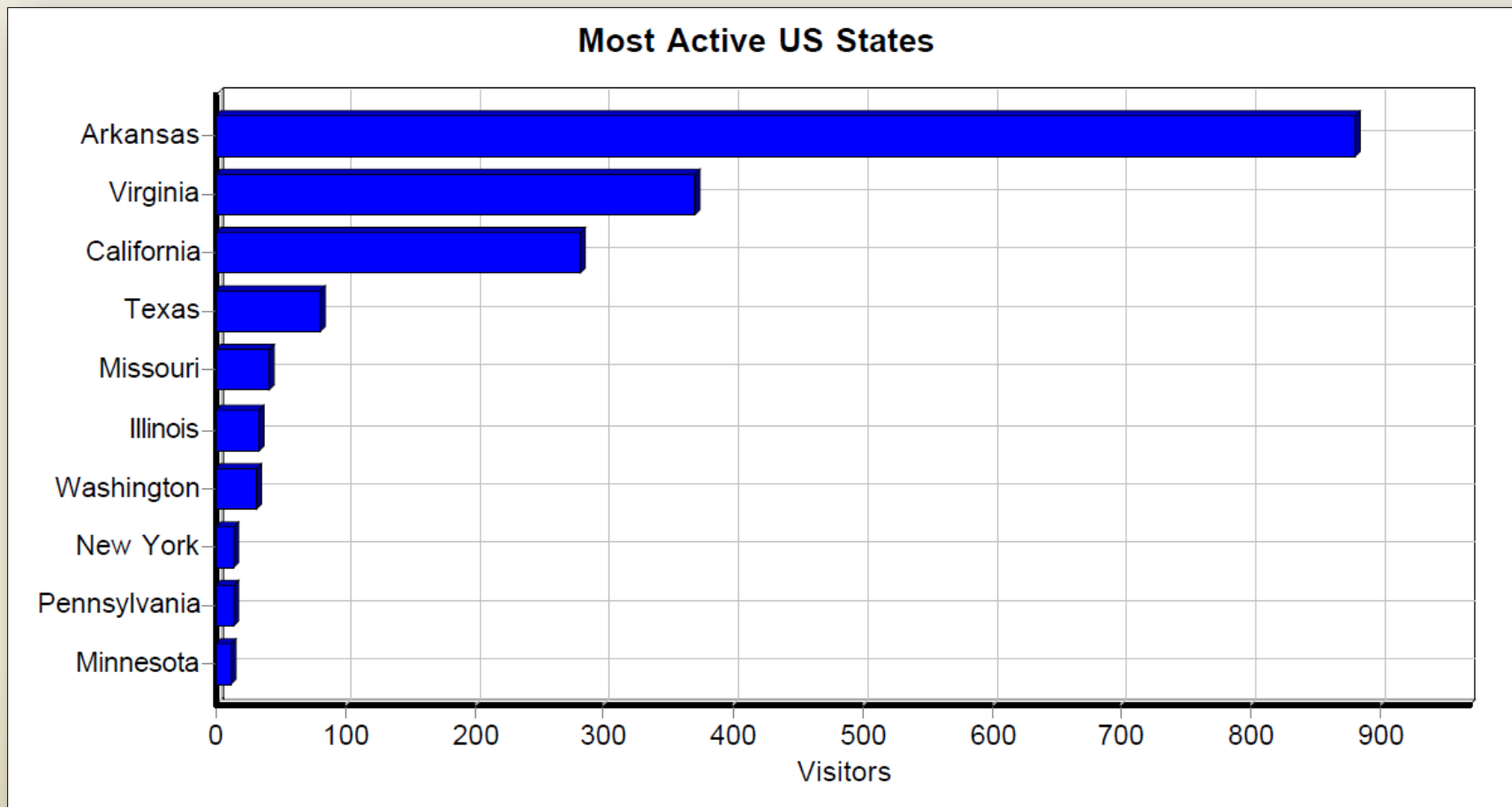
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Podcast Viewership



Podcast Views by State



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Podcast Views by City

		Hits	Visitors	Bandwidth (KB)
1		10,836	358	296,630
2		261	299	161,648,118
3		111	187	2,274,991
4	Beijing, China	110	134	3,998
5	San Jose, California, United States			
6	Hot Springs Village, Arkansas, United States			
7	Los Angeles, California, United States			
8	Dallas, Texas, United States			
9	Stanford, California, United States			
10	Springdale, Arkansas, United States	111	82	395,257
11	Farmingington, Arkansas, United States	110	28	166,715
12	Chicago, Illinois, United States		27	336
13	Mountain View, California, United States		27	475,044
14	La Jolla, California, United States		25	822
15	Redmond, Washington, United States			
16	Beverly Hills, California, United States			
17	Bentonville, Arkansas, United States			
18	Russellville, Arkansas, United States			
19	Fort Smith, Arkansas, United States			
20	Kansas City, Missouri, United States	20	15	305

Little Rock – 10,836 hits

Fayetteville – 261 hits

Springdale – 111 hits

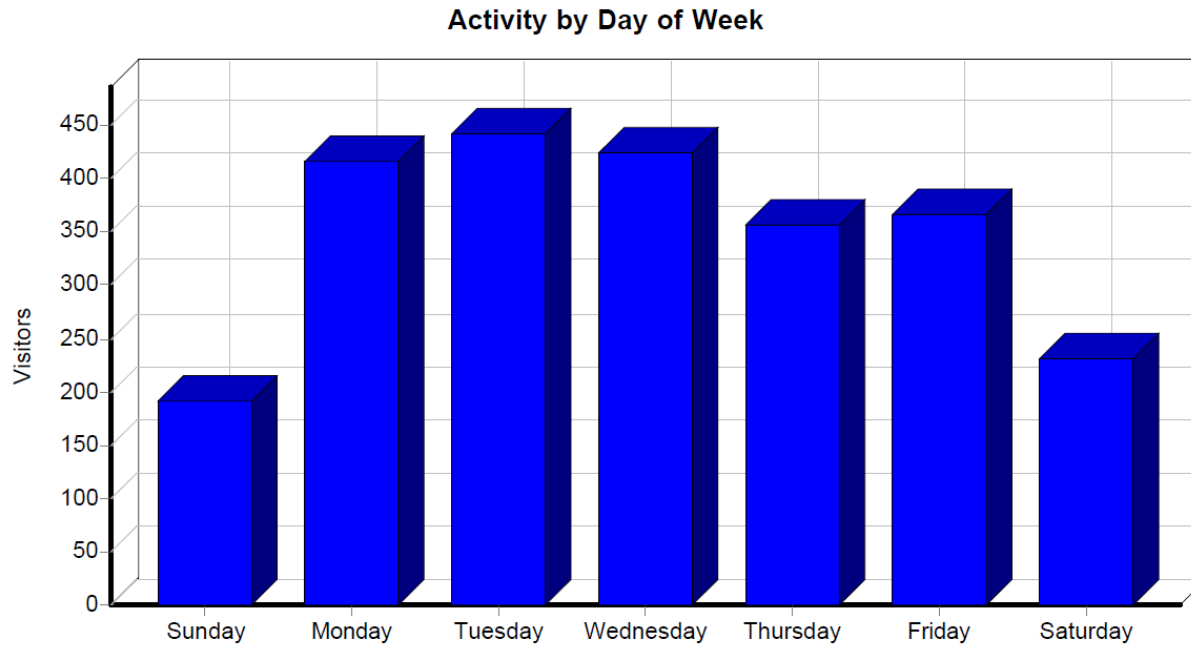
Farmingington – 110 hits



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Podcast Views by Day of Week

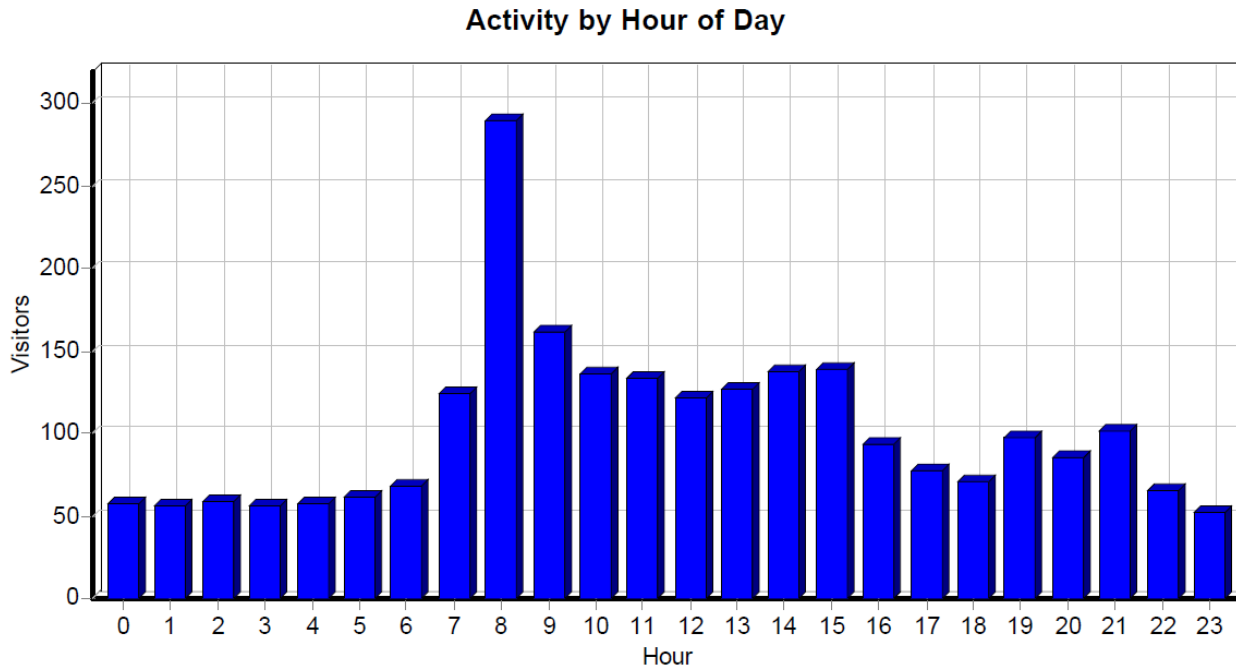


Activity by Day of Week

Day	Hits	Page Views	Visitors	Bandwidth (KB)
Sunday	1,179	426	192	1,612,153
Monday	3,679	1,896	416	34,692,825
Tuesday	4,081	1,980	442	38,484,531
Wednesday	3,831	1,870	425	35,817,824



Podcast Views by Hour of Day



Activity by Hour of Day

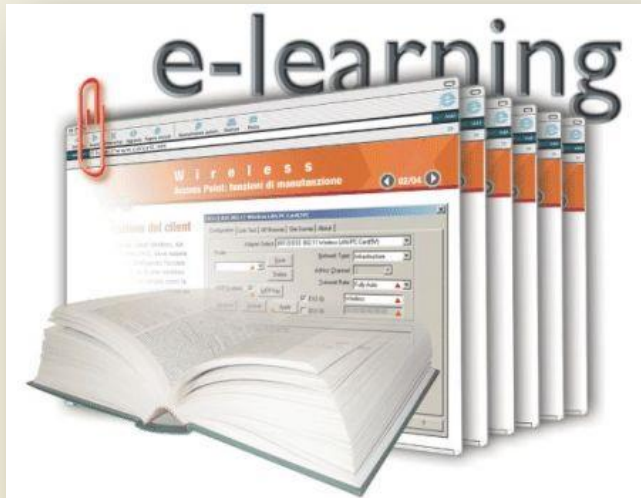
Hour	Hits	Page Views	Visitors	Bandwidth (KB)
00:00 - 00:59	414	202	57	192,207
01:00 - 01:59	390	178	56	189,756
02:00 - 02:59	316	100	59	347,823
03:00 - 03:59	373	80	56	140,596



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Task 2: Online BMP training



An online BMP guide will be developed using the **Moodle** platform with **PowerPoint** and **Articulate Studio...**

Interactive learning – BMPs for homeowners, business owners, and land managers



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Online “Greening Your Life” Training Guide



1. Water Quality in Arkansas
2. Nutrient Management
3. Yard Waste Management
4. Lawn and Garden IPM
5. Runoff Management/
Water Conservation
6. HHW Management
7. Pet Waste Management
8. Riparian Management
9. Getting Involved in
Community Efforts

<http://courses.uaex.edu>

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Site Home » GYL_12

People

Participants

Activities

- Books
- Certificates
- Forums
- Questionnaires
- Quizzes
- Resources
- SCORMs/AICCs

Administration

- Grades
- Profile

My Courses

"Green Your Life"
Training Guide (FY12)
All courses ...

Topic outline



Welcome to Greening Your Life

A Course Every Arkansan Should Take

The Greening Your Life on-line, educational course will guide you through a series of short educational units that are designed to help you make informed choices about household and gardening activities that can have an impact on our environment and our drinking water quality among other things.

Course Learning Objectives:

- Participants will gain a knowledge of watershed dynamics in Arkansas.
- Participants will be able to identify home and garden activities that can contribute to local water quality pollution.
- Participants will be able to implement home and garden best management practices (BMPs) to implement their impact on water quality.

Getting Started

- Introduction Letter from the Instructors
- Navigating Through This Course
- Activities and Quizzes Tutorial
- Narration for Activities and Quizzes Tutorial

Unit Activities

Additional Resources

- Introduction to Water
- Glossary of Water-Related Terms



Water is important to everyone. On average, Arkansans use 157 gallons of water a day.

1 Water Quality in Arkansas

Quality of the waters of Arkansas is of critical importance to our health, heritage, community growth, and economic development.



1 Water Quality in Arkansas


Quality of the waters of Arkansas is of critical importance to our health, heritage, community growth, and economic development.

After this module you will be able to:

- Define the terms: watershed, stormwater runoff, point source pollution, and nonpoint source pollution.
- Name at least 3 watersheds in Northwest Arkansas.
- Name the watershed in which you live.


Unit Activities

 Watersheds and Water Pollution **Books**

 Point vs. Nonpoint Source Pollution Activity

 What is Your Watershed Address? **Discussion forums**

 Stormwater Runoff - video **Videos**

 Guess the Best Water Quality Activity **Activities**

Unit Quiz


 Module 1: Watersheds in Arkansas Quiz **Quizzes**


Additional Resources

 What is Water Quality

 Arkansas Watersheds

 Water Basics

 Watershed's, Drinking Water, and Community

 Surf Your Watershed

Resource information



Cossatot River, Howard County, AR

Each year thousands of tourists visit this river to paddle, camp, swim or fish. The quality waters of this river also provide a drinking water source for several communities and for agricultural production.

***Let's look at a few
course components online...***



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Task 3: BMP workshops in NSA counties



For those who do not have home/business access to the internet or prefer group learning, sessions of the online BMP guide will be conducted as workshops across the NSA counties.



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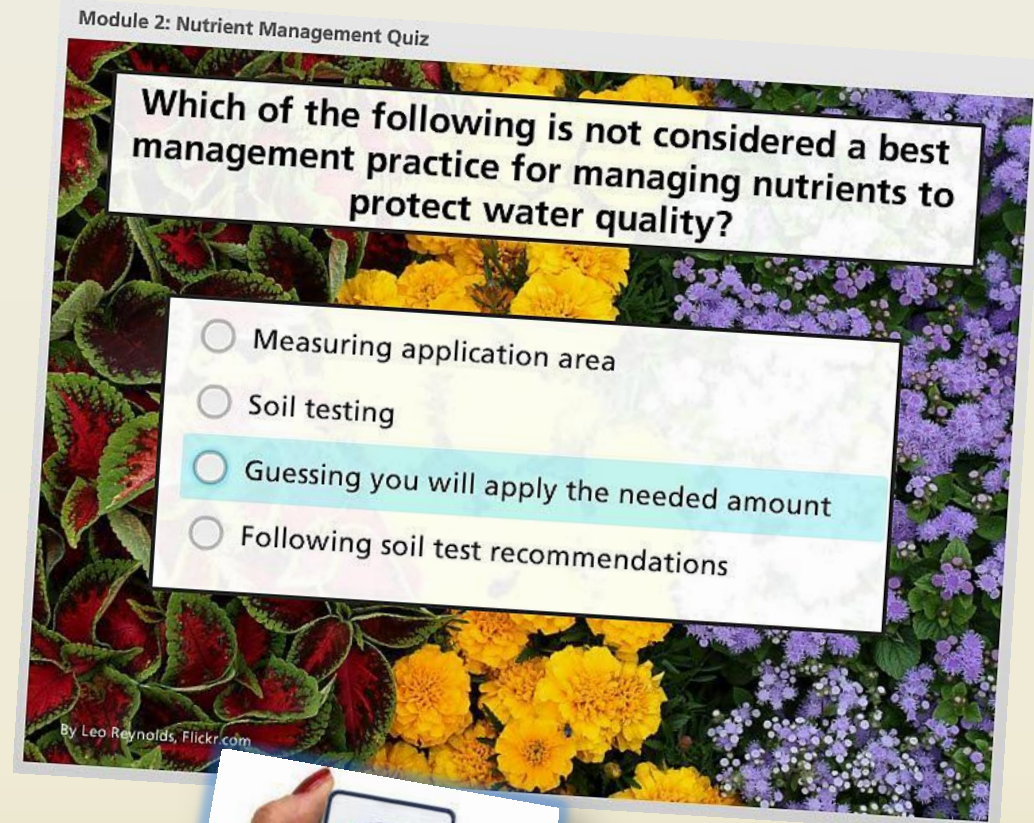
Engage participants with audience response!

Master Gardener Trainings:

Baxter County
Benton County
Carroll County
Marion County
Polk County
Sebastian County
Washington County

Garden and Civic Presentations:

Crawford County garden club
Flower Garden & Nature Society
Sebastian County garden club
UA Environmental Health
Washington County garden clubs



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Impacts

- ✓ Created podcasts, online guide, and interactive workshops
- ✓ Reaching a widespread audience through electronic education
- ✓ Easily transferable and adoptable BMP education, outreach, and management actions

Questions?

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