

Protecting Our Stormwater

Stoppin' the Droppin' Campaign

Pima Dept. of Environmental Quality (PDEQ)

Marie Light

March 12, 2012

Environmental Quality Advisory Council

Overview

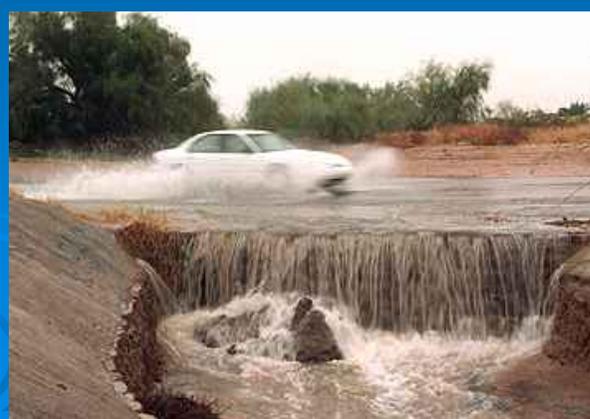
- ◆ Stormwater Management Program
- ◆ Stoppin' the Droppin' Campaign
- ◆ What we can do



PDEQ Mission

Identify & respond to environmental issues by providing public services:

- Air, water & soil (illegal dumping) monitoring
- Permitting and compliance inspections
- Enforcement
- Education and outreach



Stormwater Management Program

- Stormwater is rain water flowing on the ground (also called runoff or surface water)



- PDEQ Objective:

Maintain the water quality of surface water in our washes using:

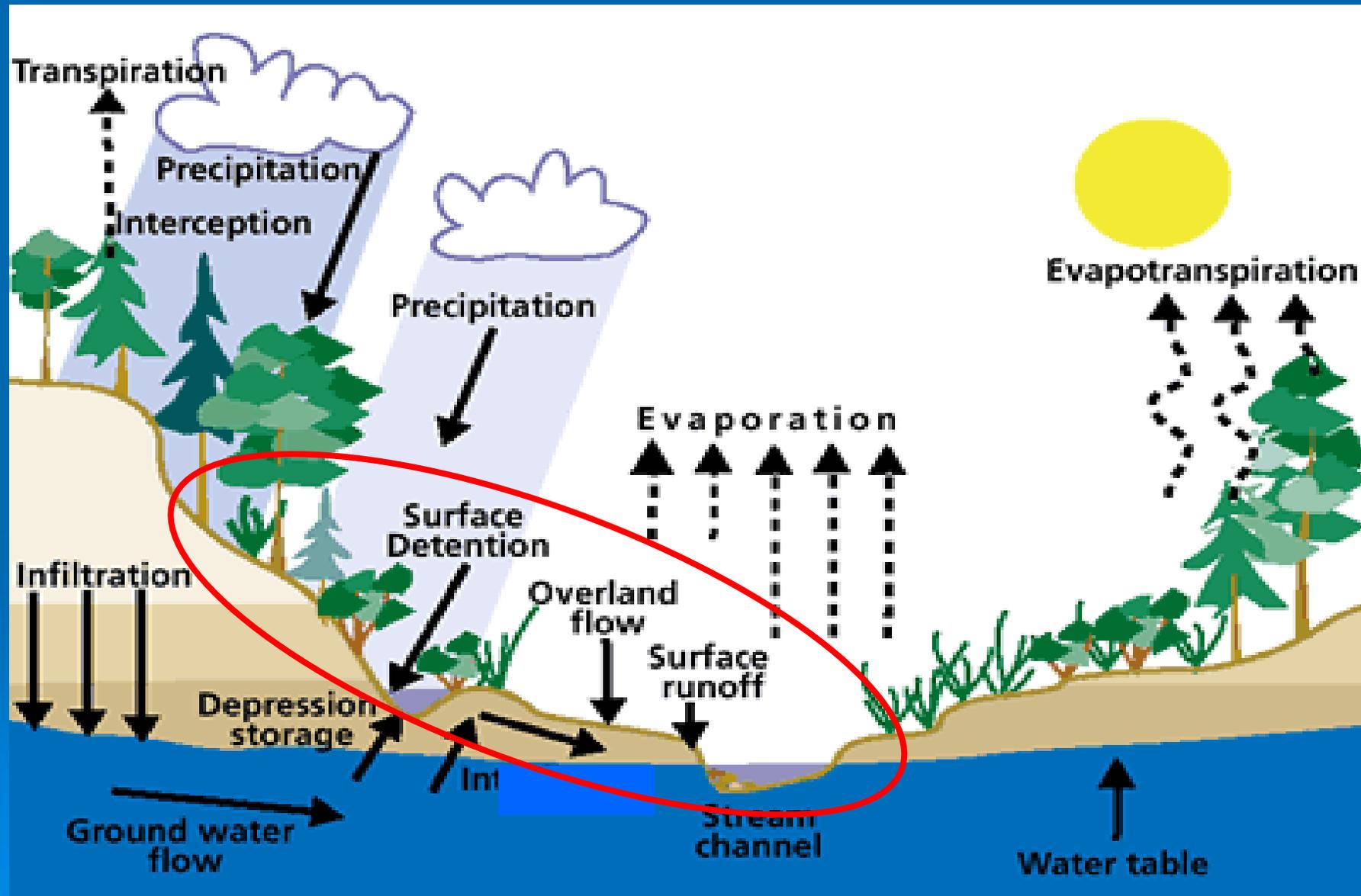
- Flood control measures
- Pollution prevention

Stormwater Pollution

occurs when runoff carries
pollutants into our desert washes:

- ◆ Pet waste
- ◆ Oil & Grease
- ◆ Gasoline
- ◆ Trash
- ◆ Paints & Solvents

Hydrologic Cycle and Water Sources



Methods of Protecting Stormwater

- Public outreach
- Prevent pollution with good housekeeping practices
- Inspection of places likely to have pollutants
 - Construction Sites
 - Industrial Facilities
 - Storm drains and drainage channels
 - Reports of pollutants or suspicious looking water
- Monitor stormwater

PDEQ's *Stoppin' the Droppin'* 2012 Campaign



Myth buster Fact

Pet poop does **not** make good fertilizer.
It is toxic.

- ◆ EPA deemed pet waste a “non-point” source of pollution in 1991, which put poop in the same category as oil & toxic chemicals.
- ◆ A single gram of dog poop can contain 23 million fecal coliform bacteria.

Negative impact on water quality

- ◆ How many days of dog droppings from how many dogs does it take to close a bay & all watershed areas within 20 miles to swimming & shell fishing?

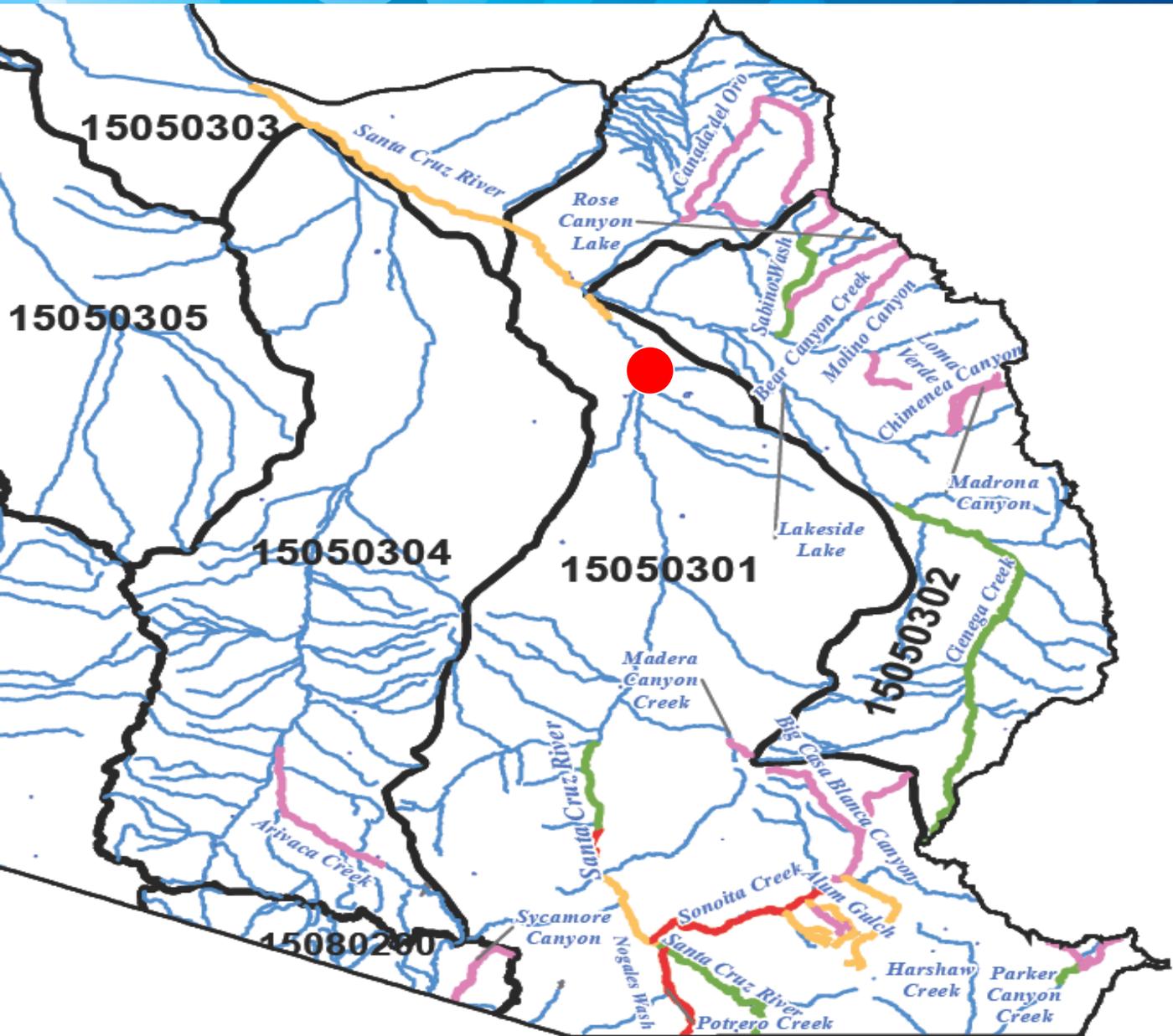


Desert region vs. other regions



- ◆ Monsoons and winter rains
- ◆ Temporary water bodies
- ◆ Impact on desert watersheds

Our Desert Region



Legend

- HUC Watershed Boundaries
- Lakes
- Streams

Assessed Streams
ADEQ and EPA Listings

- Attaining
- Inconclusive
- Not Attaining
- Impaired
- EPA Impaired

Assessed Lakes
ADEQ and EPA Listings

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You are here!

Public health nuisance



Stoppin' the Droppin' Art Gallery *E. coli*



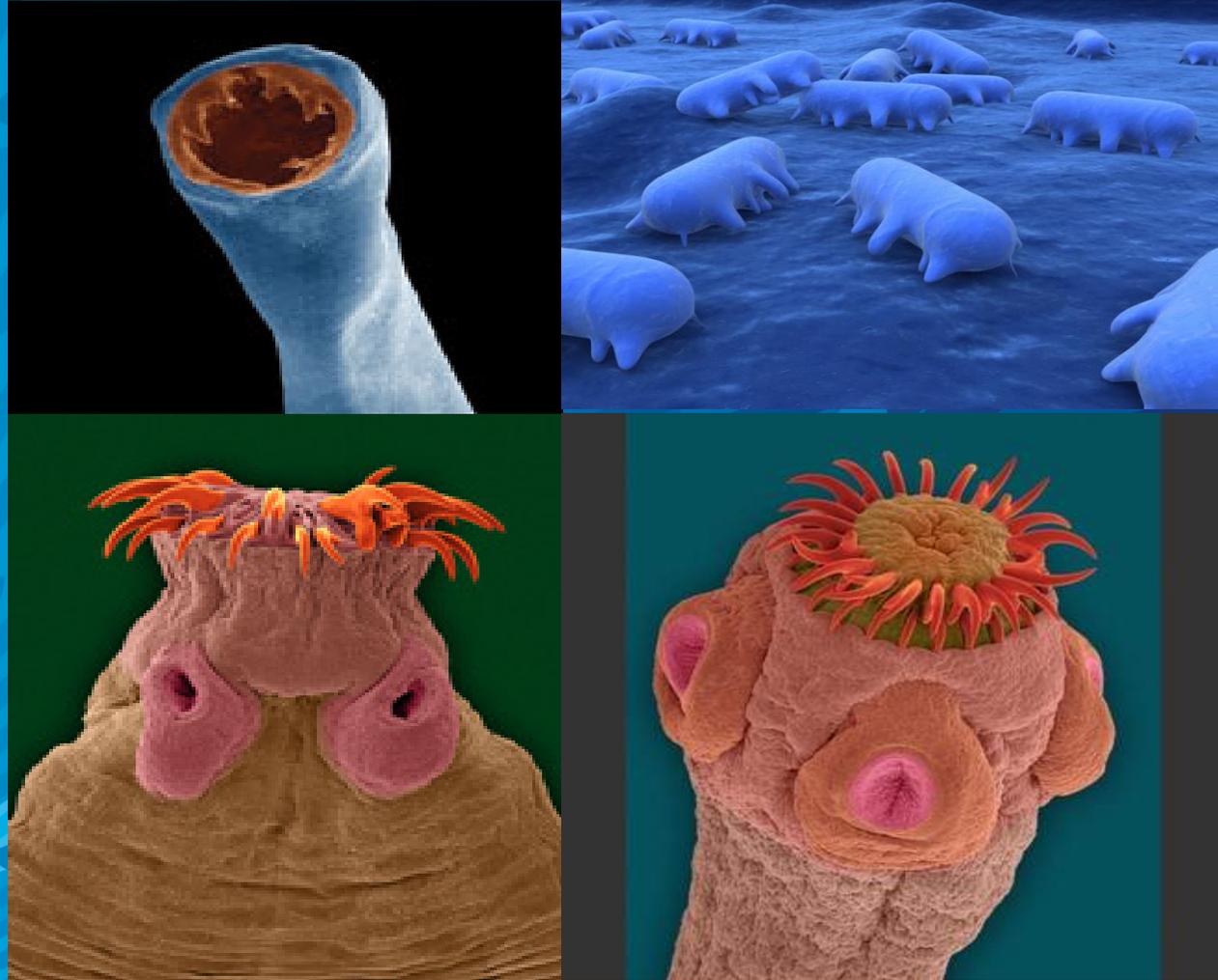
Potential Health Impacts of Escherichia coli Bacteria

- Cramps
- Diarrhea
- Intestinal illness
- Urinary tract and kidney infections

Stoppin' the Droppin' Art Gallery



Stoppin' the Droppin' Art Gallery



Protect Our Children & Pets



We need clean water

1. Essential for **life support & vitality**
 - Hydration ~1/2 gal/day (~ 2 liters/day)
2. Essential for **hygiene** ~ 8 gal/day (~ 35 liters/day)
3. Essential for **food** ~642 gal/day (~ 2,825 liters/day)
 - Vegetables, fruit, grains
 - Fish, Poultry, Meat
4. Important for aesthetics & recreation

Protecting the Nation's Waters

Constitution of United States

Clean Water Act
(Pollution Prevention)

National
Pollutant Discharge Elimination System

Arizona
Pollutant Discharge Elimination System



What We Can Doo!



Install Pet Waste Station & Garbage Cans



Slow it down & Soak it in!



Good Housekeeping



- Store chemicals
- Apply pesticide, herbicide & fertilizer to minimize runoff

Recycle Household Hazardous Waste



Harvest Rainwater



Let us know about environmental concerns!

- ◆ Contact us
 - ◆ Phone: 520-243-7400
 - ◆ Website: <http://www.deq.pima.gov/complaints/compform.html>
- ◆ Describe what you observe (see, hear, smell), where you observed it, and when.
- ◆ We perform inspections and work with the source of the concern to do clean-up!

Ways to Protect our Stormwater Quality

- ◆ Scoop the poop
- ◆ Fix your leaky car
- ◆ Harvest rainwater
- ◆ Don't be a litterbug!
- ◆ Reduce, reuse, recycle
- ◆ Slow it down and soak it in
- ◆ Dispose of hazardous waste properly
- ◆ Apply pesticide, herbicide, & fertilizer to minimize runoff

The Dung Beetle Story



Outstanding Planetary Citizens!



Taking Care of Business

**Until they can take care
of their own business,
it's your business.**



Let's keep Bend dog-friendly by being responsible dog owners. For your convenience, Bend Park and Recreation is providing dog clean-up stations in parks. But don't just rely on those. It's always a good idea to carry your own bags. So unless you've got your dog thoroughly toilet trained—don't forget, clean up after your pet. Find out how to get involved by contacting Softpaws, a volunteer group advocating responsible dog ownership, at www.softpawskg.org

De-Poop-Da-Park

Dog Waste Clean-Up Campaign

Brought to you by Softpaws and Bull Mean.
Together promoting responsible dog ownership.

Bend State Parks and Recreation District • Mt. Bachelor Ski Area • Deschutes Veterinary Clinic
Bend Pet Supply • Bend Town Bridge • Doggy Studies • Second Street Arts • The Bulletin



Sources of Information

- Rainfall Data: <http://rfcd.pima.gov/wrd/alertsys/index.htm>
- Stormwater Information
 - Pima County:
<http://www.deq.pima.gov/water/stwmgmprog.html>
 - Arizona:
<http://www.azdeq.gov/environ/water/permits/stormwater.html>
 - EPA: http://cfpub.epa.gov/npdes/home.cfm?program_id=6

Contact Information

Pima County Stormwater Management Program

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