Protecting Our Neighborhood Detention

POND Program



Jeri Fleming, MPM, J.D. & Jennifer Salvo

Oklahoma Water Survey, University of Oklahoma

Stormwater ponds are important components of urban watersheds

- Reduce flooding
- Reduce pollutant transport
- Protect water quality
- Reduce streambank erosion
- Provide urban habitat



Neighborhood Ponds

Issues

- Lack of understanding
- Lack of knowledge
- Lack of funding
- Impacts
 - Degraded water quality
 - Increased risk
 - Reduced functionality





PROTECTING OUR NEIGHBORHOOD DETENTION















POND Program Purpose

Educate homeowners on how to properly maintain their ponds Gather data to better understand a pond's role in water resources



Encourage care and maintenance before degradation occurs



POND Program Goals

- Transform the stormwater pond into a functioning asset that can add value to a neighborhood
- Improve environmental stewardship
- Formulate a greater connection between neighborhoods and their ponds
 - Develop a sense of ownership
- Provide hands-on experiences and training

The pond's purpose

Landscaping

Water quality

Pond management

Bird watching/identification tips

Biological surveys (fish and macroinvertebrates)

Program Is About Partnerships

- Oklahoma Biological Survey
- OU's Department of Landscape Architecture
- OU students
- Oklahoma communities
- Neighborhood Alliance of Central Oklahoma







OKLAHOMA WATER SURVEY

at The UNIVERSITY of OKLAHOMA





Working With Residents



- Water quality surveys
- Biological surveys
- Bathymetric surveys
- Workshops
- Feedback and improvement

Working With Residents

• Informational pamphlets

Pond management Watersheds Retention ponds and detention ponds

- Bird books and binoculars
- Bird and fish observation sheets
- Dissolved Oxygen test kits

Wetlands Shoreline erosion Pollution prevention

Composting Rain gardens Rain barrels



Current Locations

M. Sutton Wilderness

Cilifin

FIRST

Norman

Jniversity klahoma Hall Park

OU Duck Pond

KH₂D

Robinson S

Sutton Place

Hall Park

- Several meetings with their POA
- Two water sampling dates (winter), with a third on the way (spring)
- Bird and fish observation sheets are in use
- Workshops currently being scheduled



OU Duck Pond

- Restructured the program to work with students, faculty and staff
- One water sampling date
- One workshop held on March 9th; second scheduled for April 6th



Sutton Place

- Pond visits with HOA members
 - Discussed interest
 - Change in mowing practices
- Interest group currently being formed
- Sampling dates being scheduled



Program Success

- Hall Park
 - Residents have shown improvements in water sampling
 - Show enthusiasm for learning
- Growing student interest in water resources on OU campus
- Neighborhoods in OKC and Edmond showing interest in joining the program









Next Steps

- Add more ponds outside of Norman
- Gain quantitative data through pre- and post-tests
- Complete maintenance plans for ponds
- Continue to compile data on involved stormwater ponds
- Increase involvement by city stormwater programs

Questions?