

Warren County

Soil and Water Conservation District

320 East Silver St. Lebanon, OH 45035
(513) 695-1337

Board of Supervisors

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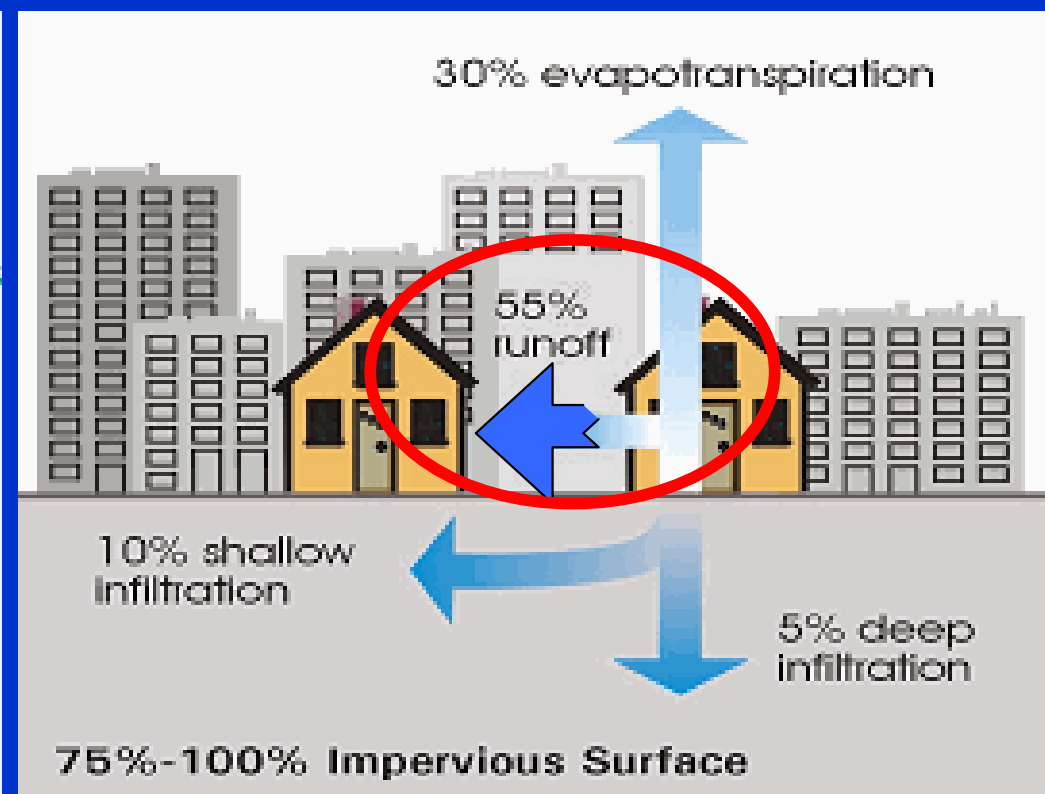
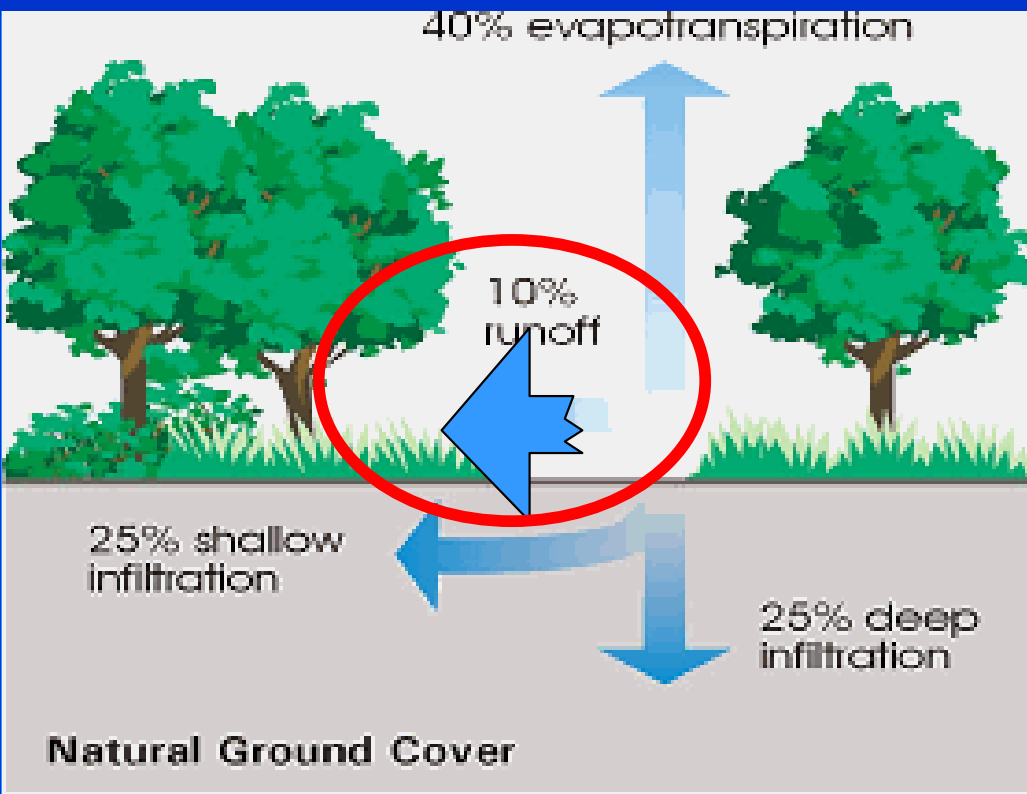


Staff

Dave McElroy
Dawn Stiles
Amy Pond
Marsha Rolph
Nathan Currin
Guy Ashmore
Don Norman
Jeff Thomas
Caitlin Botschner

Administrator
Administrative Assistant
Education Coordinator/Marketing
Stream Specialist/Watershed Coordinator
Agricultural Technician/Wildlife Specialist
Natural Resources Conservationist
Natural Resources Conservationist
Lead Natural Resources Conservationist
Urban Tech/GIS Tech

How Land Use Change Impacts the Water Cycle



Our rainfall averages 40 inches per year

121 days of a measurable amount

60 days of $\frac{1}{4}$ inch or more

30 days of $\frac{1}{2}$ inch or more

10 days of 1 inch or more

Storm Water 101





Comprehensive Storm Water Management includes all Rain Events

Storm Water Management

Water Quality

- 90% of our rainfall occurs in events of 1 inch or less.

Bankfull Storms

- One year up to Ten year storm (2.5 to 4 inches) Erosion and Channel Scour

Overbank Flooding

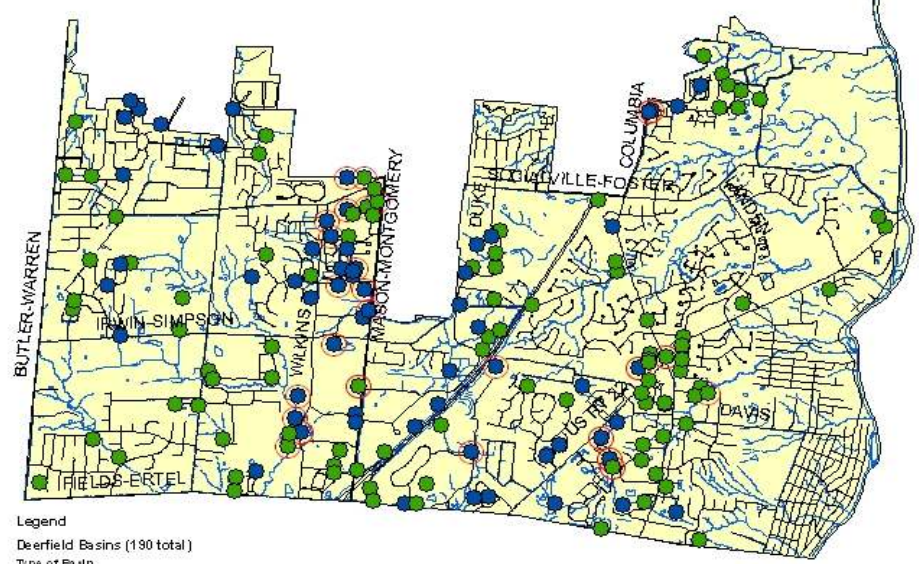
- Ten year to One Hundred year storms (4 to 6 inches)

Warren SWCD Deerfield Township Storm Water Basin Inventory and Inspection





Deerfield Township Storm Water Basins



- Legend
- Deerfield Basins (190 total)
- Type of Basin
- Detention (52%)
 - Retention (38%)
 - Water Quality (10%)
- Roads
- Hydrography
- Deerfield Township

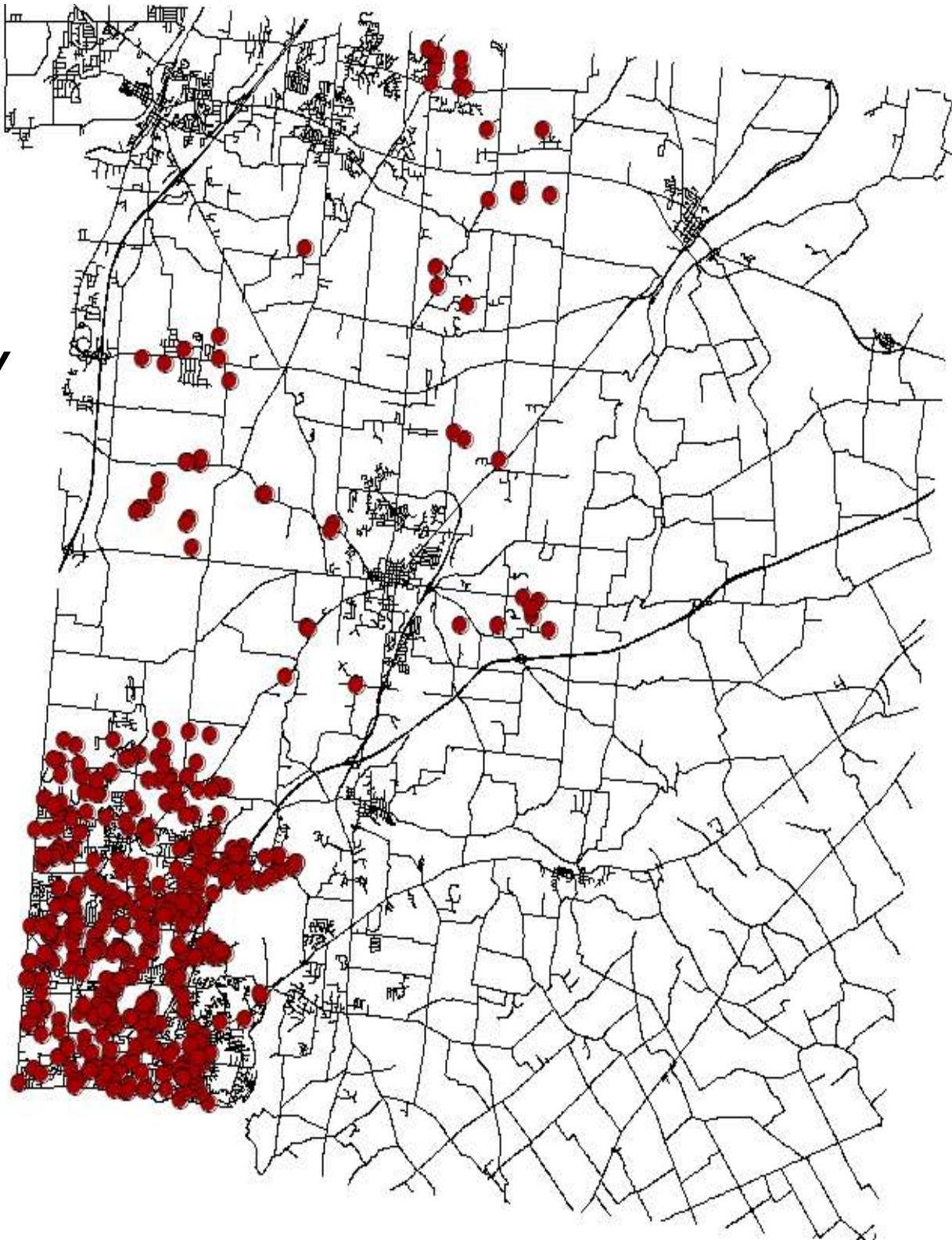
Storm Water Basins
Inspected every two years

Water Quality BMP's
Inspected every year

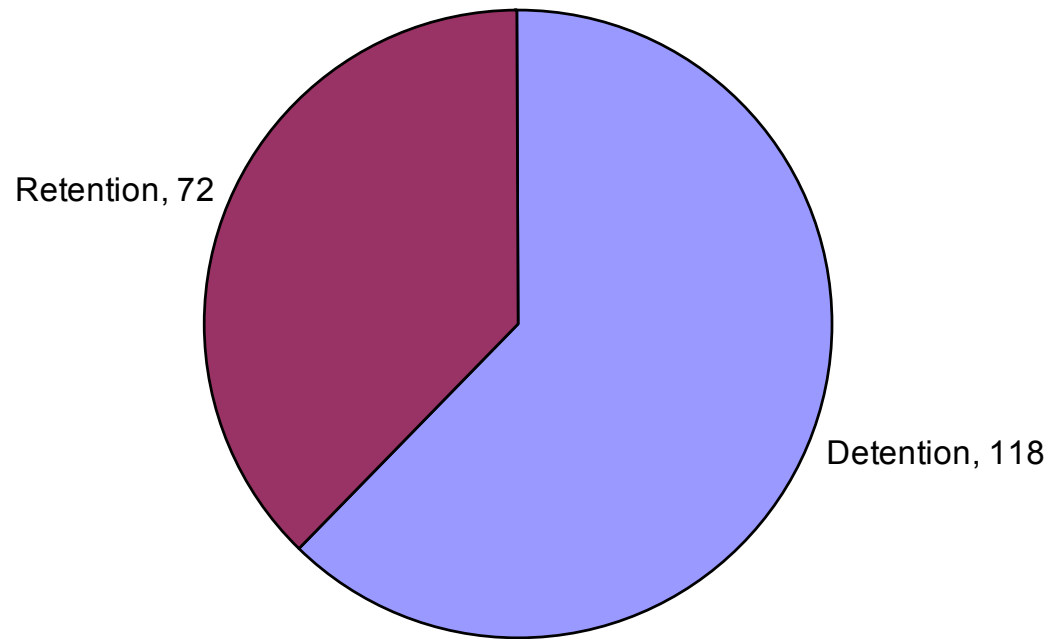
Warren County

**Storm Water
Basins**

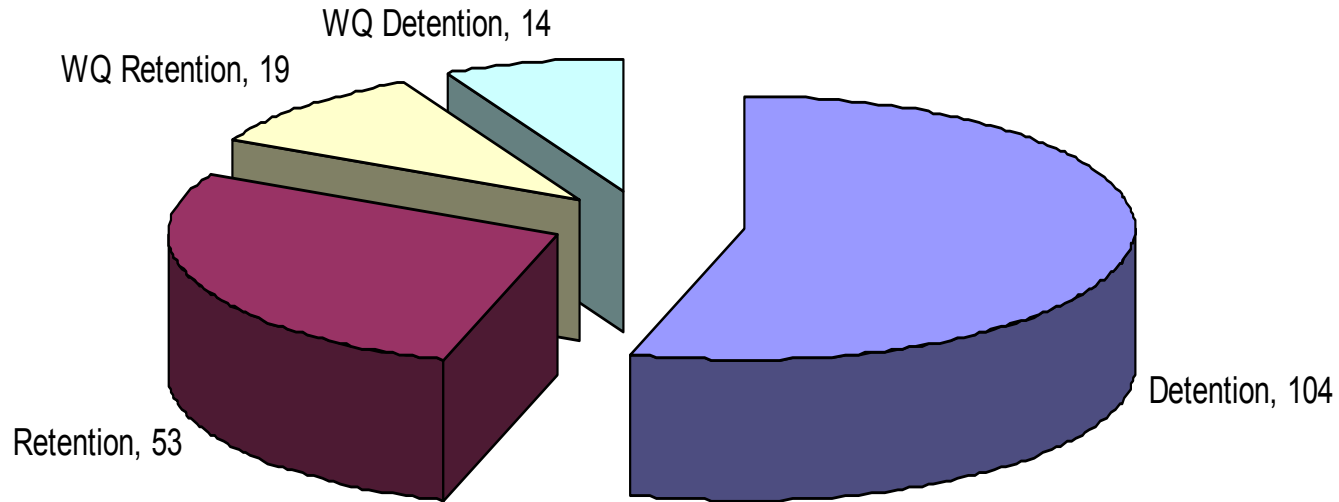
*(total inventoring
still in progress)*



Deerfield Township Basins Total 190

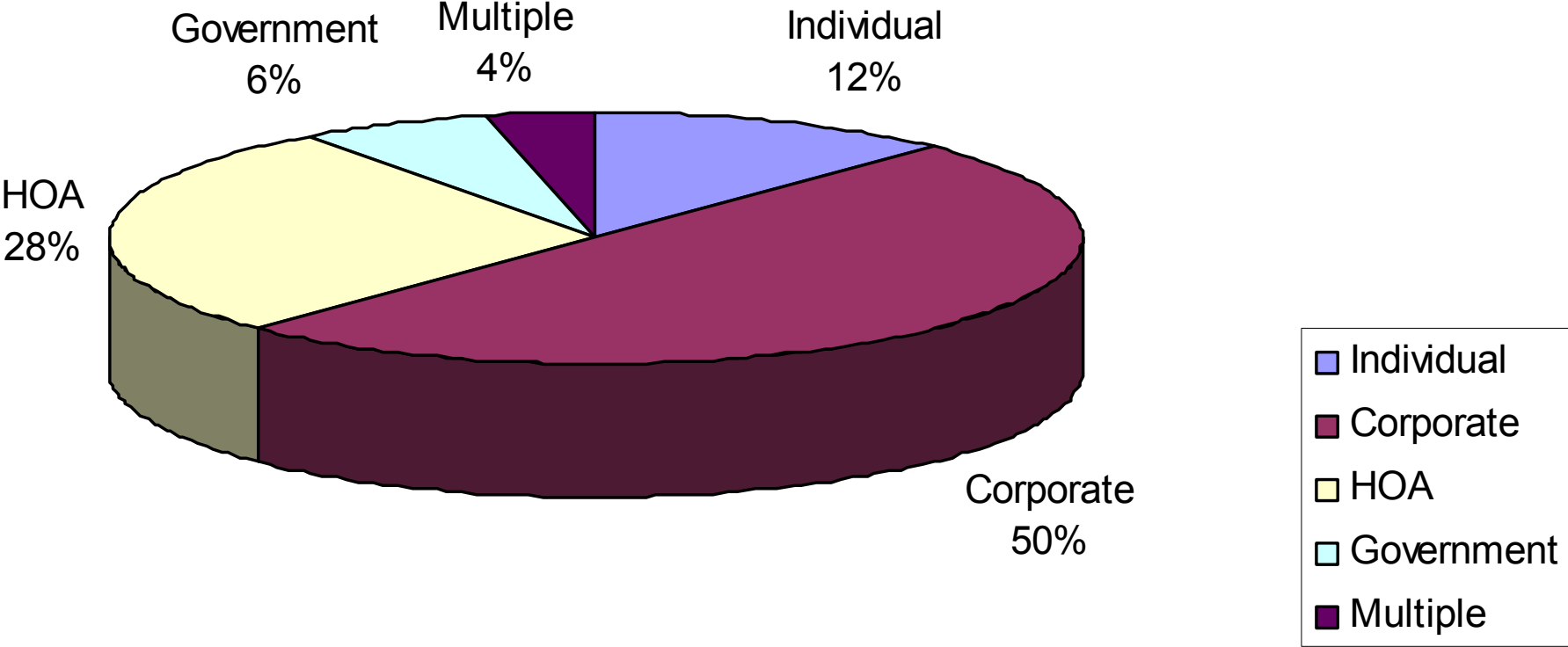


Deerfield Township Basins



- 104 Detention Basins**
- 14 Detention Basins with Water Quality Components**
- 53 Retention Basins**
- 19 Retention Basins with Water Quality Components**

Deerfield Township Storm Water Basin Ownership



Warren County Storm Water Basin Inspection Form

Inspector _____ Date _____ Twp./City _____

Development _____

Basin (location or designation if more than one) _____

Parcel ID # _____ Latitude _____ Longitude _____

Type of Basin: _____ Is this a Water Quality Feature? _____

If this is an "off-line" water quality feature, describe (i.e. grassy swale, bioretention with under drain, bio-infiltration, structural filter, oil/grit separator) _____

Ownership: _____

Responsible Party for Maintenance: _____

Name _____

Address _____

Phone _____

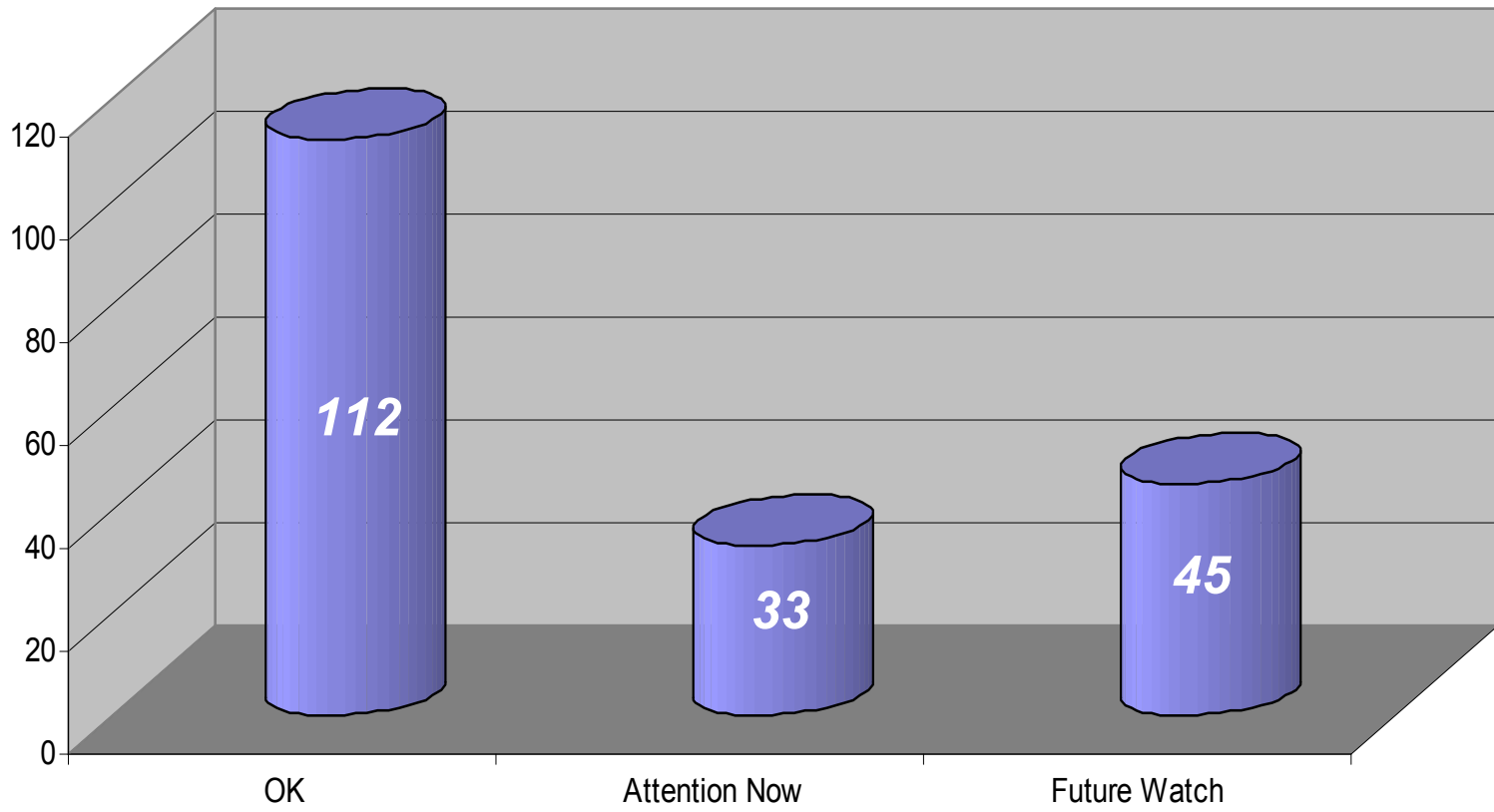
<u>Outlet Structure Details (for first time or needed data only)</u>			
	<u>Description</u>	<u>Relative Elev</u>	<u>Rod Reading</u>
Orifice 1	_____	_____	_____
Orifice 2	_____	_____	_____
Orifice 3	_____	_____	_____
Emr Spwy	_____	_____	_____
Other	_____	_____	_____

Items needing immediate attention (these repair/replacement items need to be performed in order for the proper function of the feature. These items will need a follow-up inspection in ____ days)

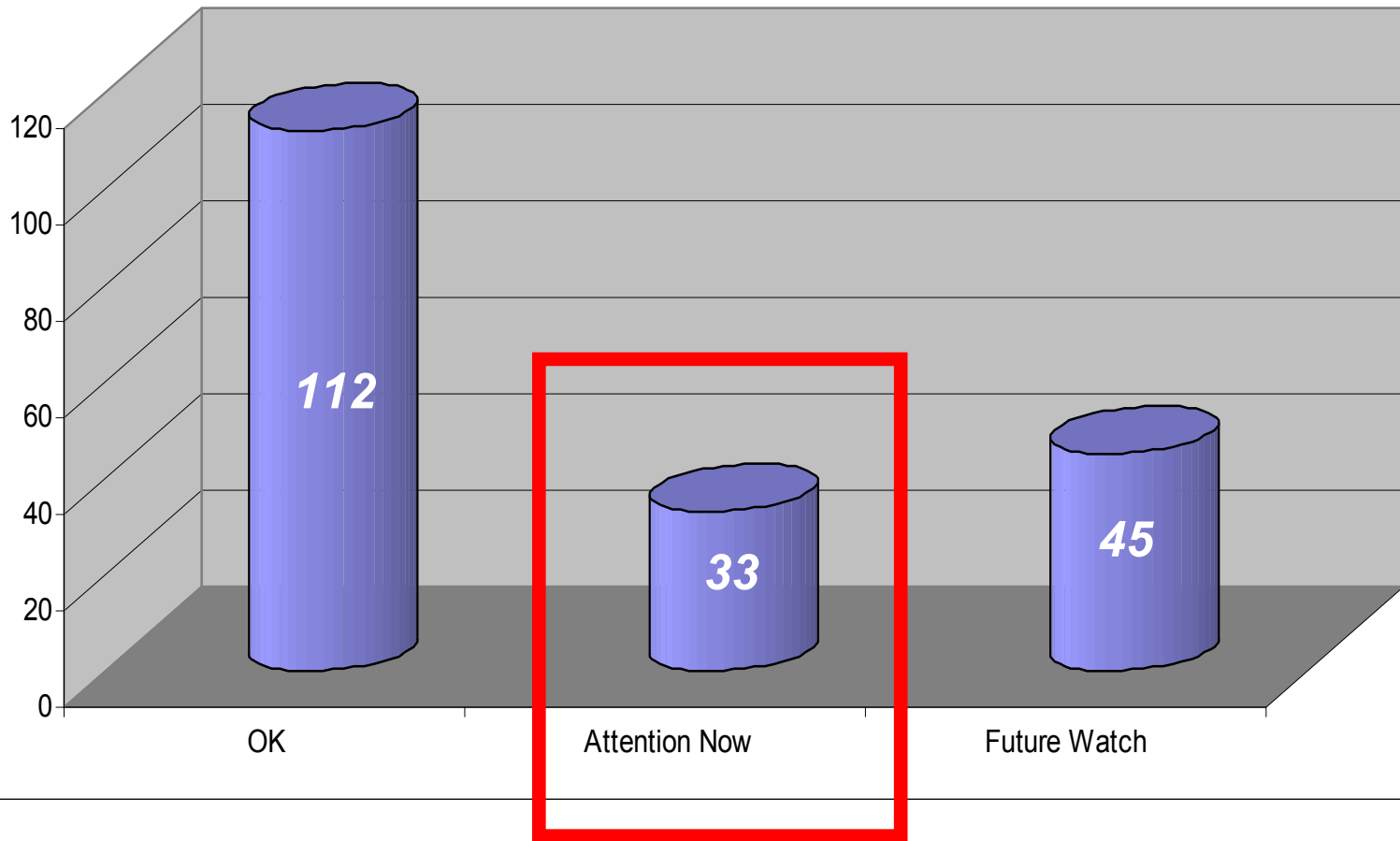
Items to be watched or addressed to avoid future maintenance cost

Attachments: picture(s) parcel map

General Conditions



General Conditions



Basins needing immediate attention for maintenance

