LAKE WORTH STORMWATER CHALLENGES

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Outline

• Watershed Management
• Historical Flood Events
• High Water Event Management
Comprehensive Watershed Management Plan

• Minimize pollutants at source
  – Conduct Greenprint of Lake Worth watershed
  – Identify high value conservation zones
  – Protect high value zones through conservation easements and development regulations
  – Promote low-impact development
  – Adopt storm water management best practices
  – Promote incentive programs for SWMBP

• Establish and maintain collection points at discharge into Lake Worth
  – Sedimentation basins
  – Catch basins
The Lake Worth watershed is approximately 94 square miles (including Lake Worth) with about 230 linear miles of streams and rivers.
Flood Categories

- Action Stage 594’
- Flood Stage 597’
- Moderate Flood Stage 598’
- Major Flood Stage 599’
Historic Crests

- 598.70 on May 3, 1990
- 598.13 on October 14, 1981
- 597.98 on December 20, 1991
Recent Crests

• 597.78 on June 10, 2004
• 597.47 on June 20, 2015
• 596.72 on November 28, 2015
• 595.33 on March 1, 2001
Latest observed value: 596.74 ft at 10:00 AM CST 28-Nov-2015. Flood Stage is 597 ft

Record: 598.7'
Residential Flooding Elevations

- Food event defined as one where flood waters exceed the finished floor elevation of a residential structure.
- City acquired a “flood easement” at the time of sale from 594.0 to 600.0 to provide for water storage during high water events.
High Water Event Management

- Notification of potential flooding of low lying houses begins at 595.0
- Emergency Operation Center notified at 595.0
- Boating activities are banned when elevations reach 595.5
- Flooding of low lying houses begins at 596
- 100 yr. Flood Elevation is 600
HOUSES BELOW 598
(5)
HOUSES BELOW 600 (45)
Websites

• http://ww.trwd.com/lake-level-blog

• http://water.weather.gov/ahps2/hydrograph.php?wfo=fwd+gage=flw+2
Questions?