



**Department of  
Environmental  
Conservation**

# **Long Island Water Conservation Initiative**

**Long Island Commission on Aquifer Protection**

**June 27, 2018**

# Overview

- 2017 Water Conservation Plan Updates
- Water Conservation Plan Highlights
- Pumpage and Water Conservation Analysis



# Water Conservation Plan Updates

- Updated Water Conservation Plans were due by April 28, 2017
- After the plan has been approved, the supplier is required to submit the Water Conservation Annual Reporting form each year



# Water Conservation Plan Updates

- Planned measureable objectives
- All areas of water conservation are covered with a focus on reducing irrigation demand
- Measures must be taken to reduce peak season demand
  - Goal of 15% by 2020-2021
  - 15% reduction based on 2012 pumpage



# Reducing Water Use- Outdoor

- Why a 15% reduction?
  - Help to achieve safe yield estimates
  - Reduce potential for saltwater intrusion
  - Reduce need for infrastructure to meet peak demand



# Water Conservation Plan Updates

- Notices of Violations sent to suppliers who haven't submitted updated plans
- All plans reviewed and comments provided
- Most of the comment responses received and are in review



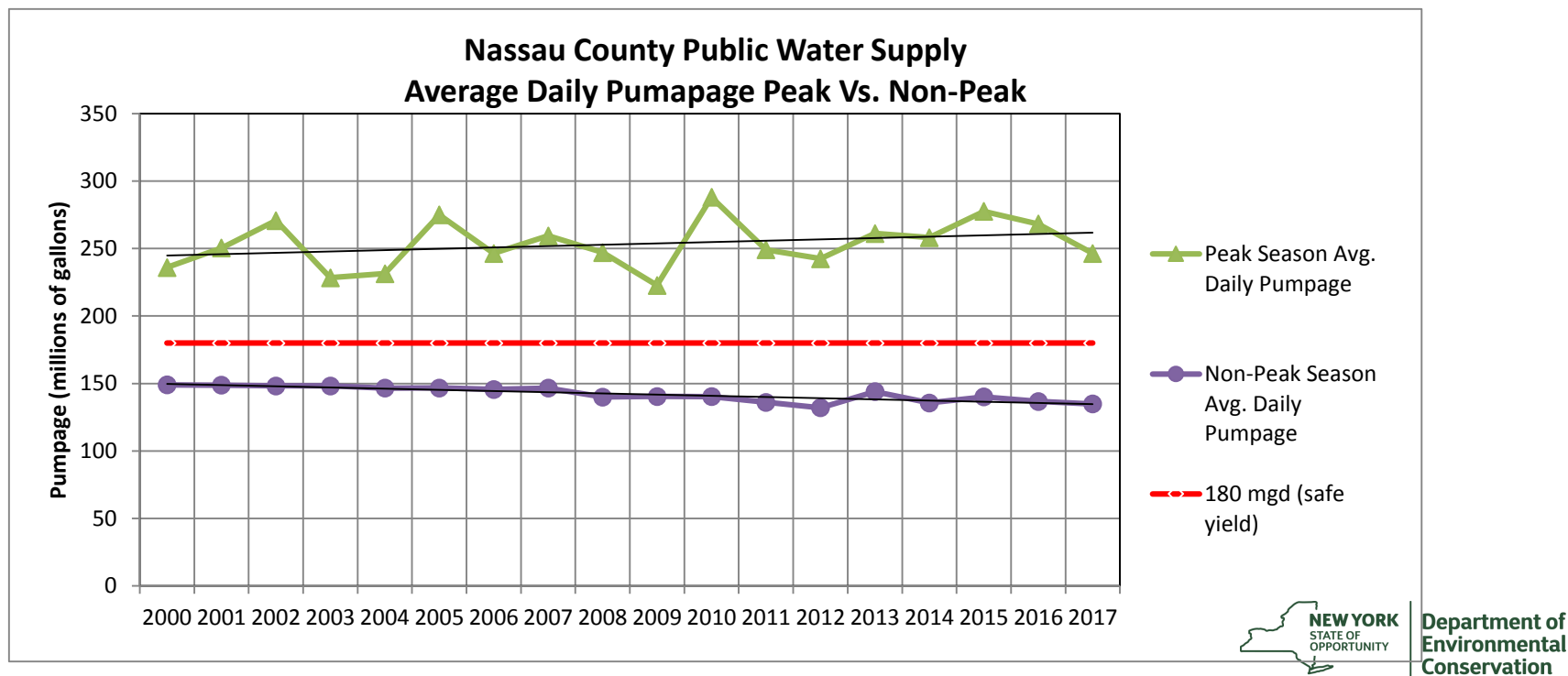


# Water Conservation Plan Highlights

- Smart Irrigation controller pilot test – reduced irrigation water usage on test property by approximately 58%
- Irrigation system permitting with review by an outside consultant for system design efficiency
- Smart Sensor Rebate/Account Credit Program
- Smart Controller Public Service Announcement
- Identifying, mapping and contacting top consumers regarding water usage
- Installing service meters that allow customers access to their consumption data and manage their usage
- Separate customer meters for irrigation systems
- Full system leak detection surveys and repairs



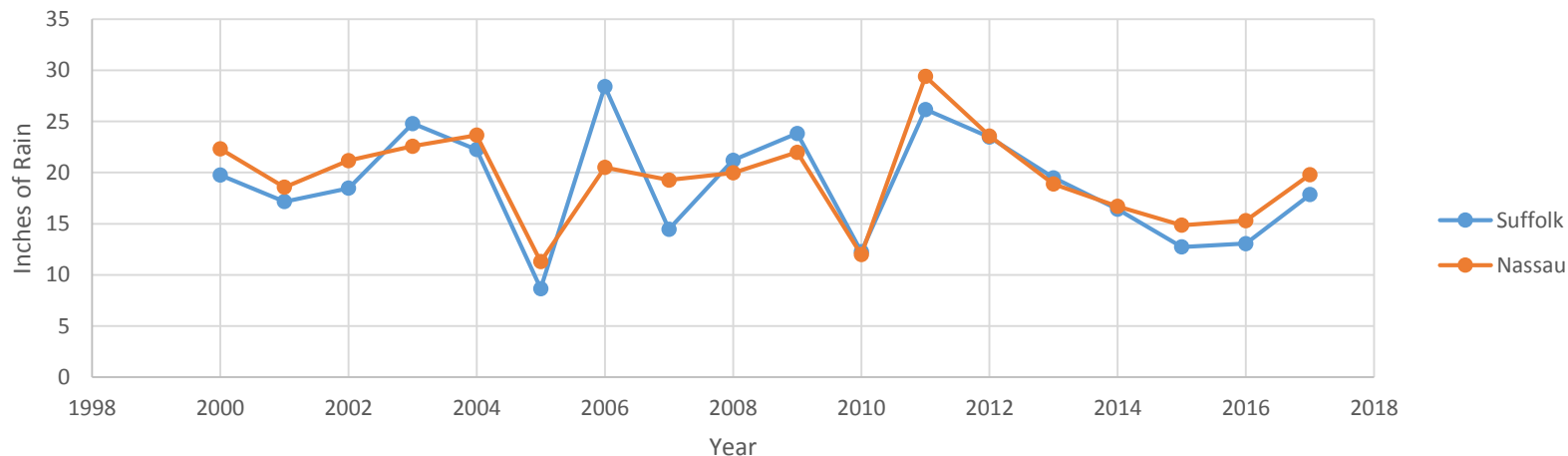
# Pumpage and Water Conservation Analysis





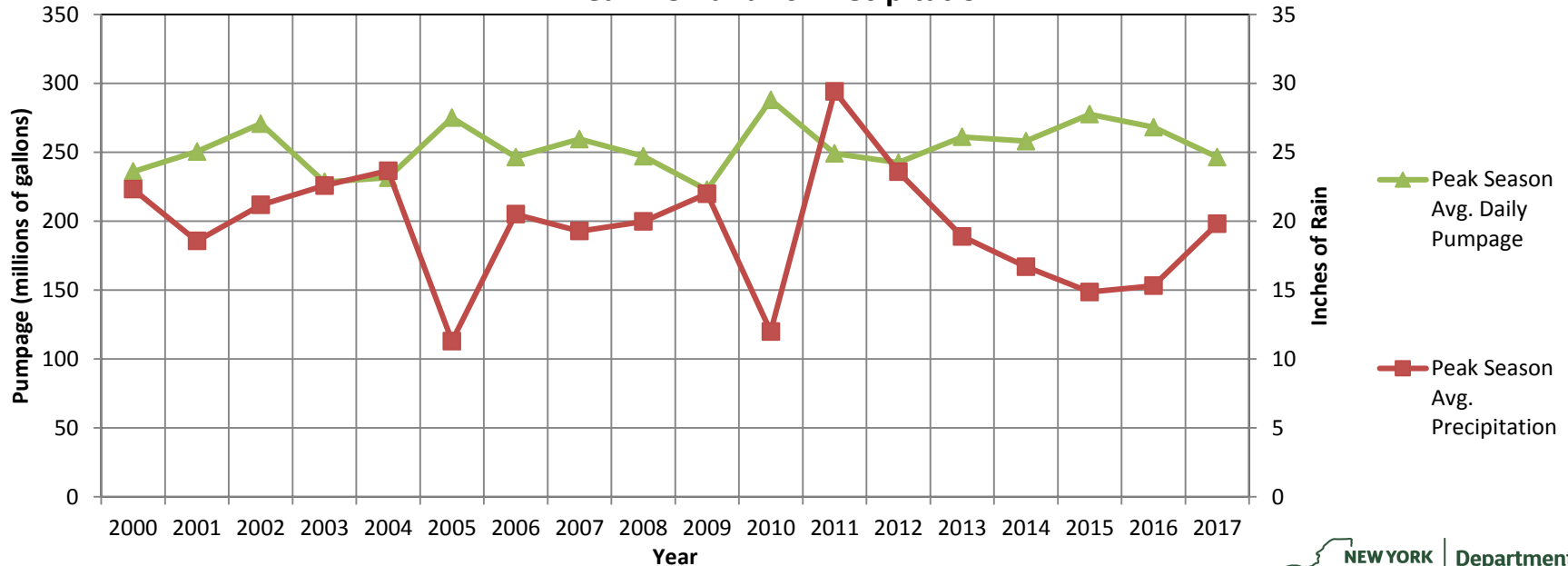
# Pumpage and Water Conservation Analysis

Average Inches of Rain Peak Season



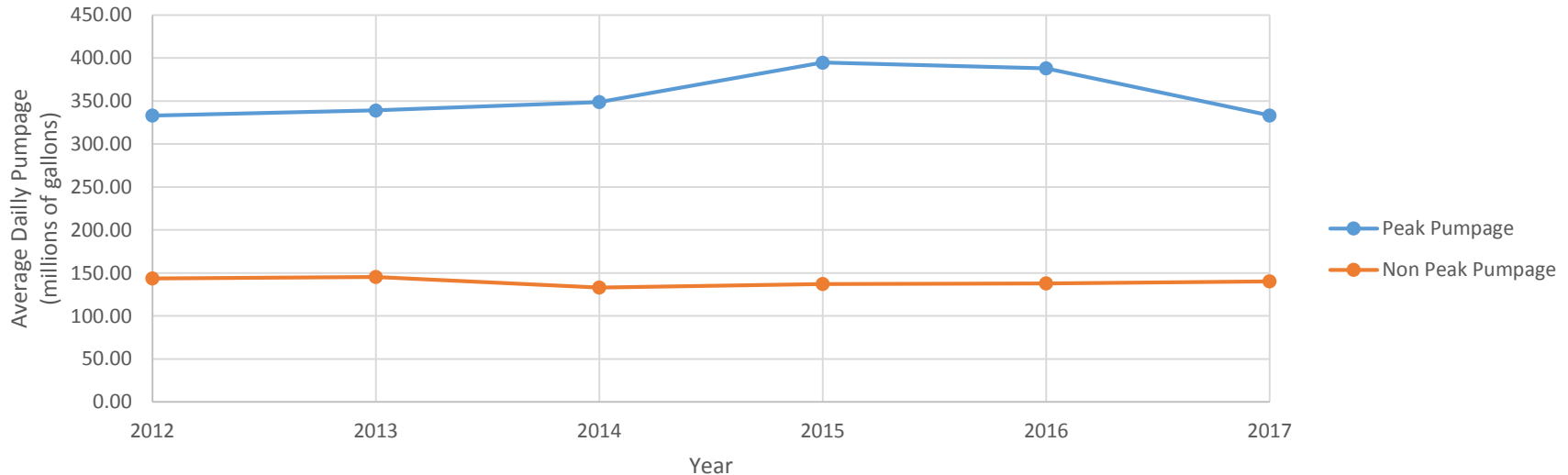
# Pumpage and Water Conservation Analysis

Nassau County Public Water Supply  
Peak Demand vs. Precipitation



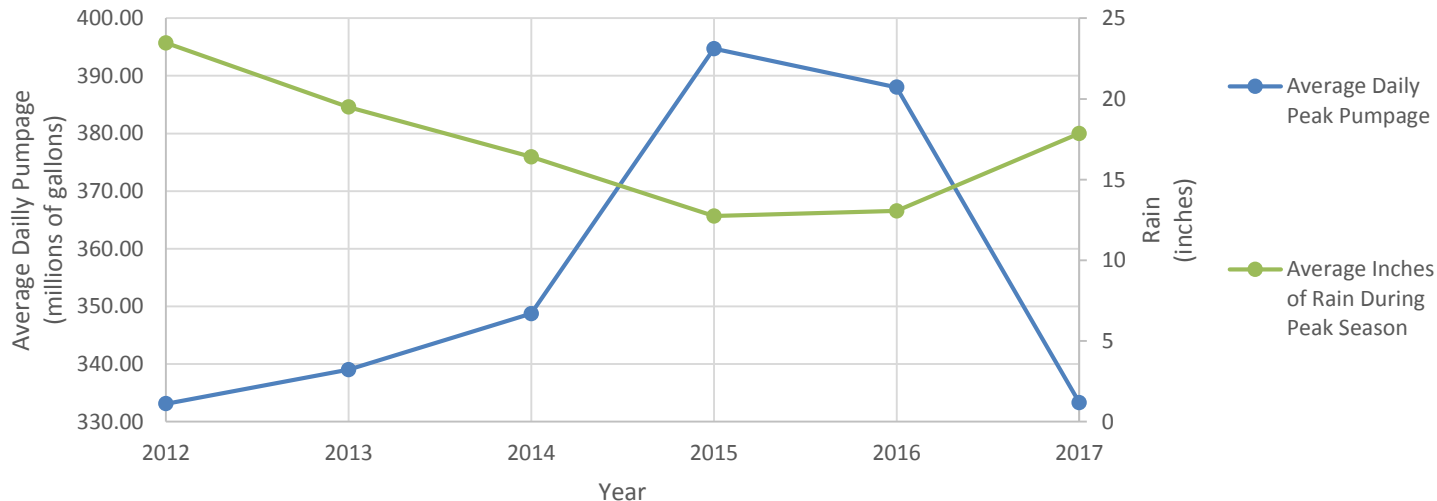
# Pumpage and Water Conservation Analysis

Suffolk County Public Water Supply  
Average Daily Pumpage Peak vs. Non Peak



# Pumpage and Water Conservation Analysis

Suffolk County Public Water Supply  
Peak Pumpage vs. Precipitation



# Pumpage and Water Conservation Analysis

- **Peak irrigation demand**
  - Approximately 9 suppliers reduced usage from least 5% in 2017 when compared to 2012
  - Likely weather related
- **Peak demand**
  - Approximately 12 suppliers reduced by at least 5% in 2017 when compared to 2012
  - Possible correlation to leak detection surveys



# Thank You

- Karen Gomez
- Regional Engineer –  
Remediation and Water
- 50 Circle Road, Stony Brook
- Karen.Gomez@dec.ny.gov
- 631-444-0321

## Connect with us:

Facebook: [www.facebook.com/NYSDEC](http://www.facebook.com/NYSDEC)

Twitter: [twitter.com/NYSDEC](http://twitter.com/NYSDEC)

Flickr: [www.flickr.com/photos/nysdec](http://www.flickr.com/photos/nysdec)



Department of  
Environmental  
Conservation