

# City of Huntington Beach Water Conservation/ Water Use Efficiency Program

2011

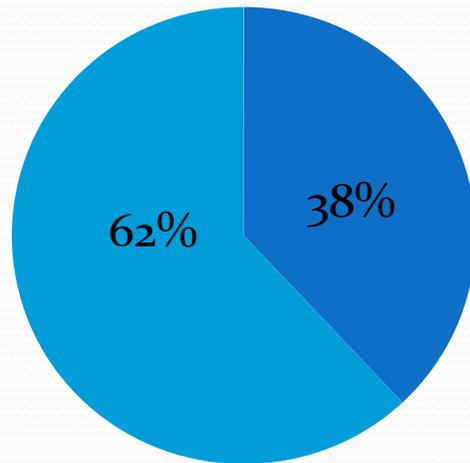
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# Where Huntington Beach and Southern California Gets its Water



**Today, Water Conservation & WUE is considered a source of water supply.**

# Current\* Huntington Beach Water Sources



- Imported Water (MWD)
- Local Groundwater

52,400 service connections

Population: 204,000

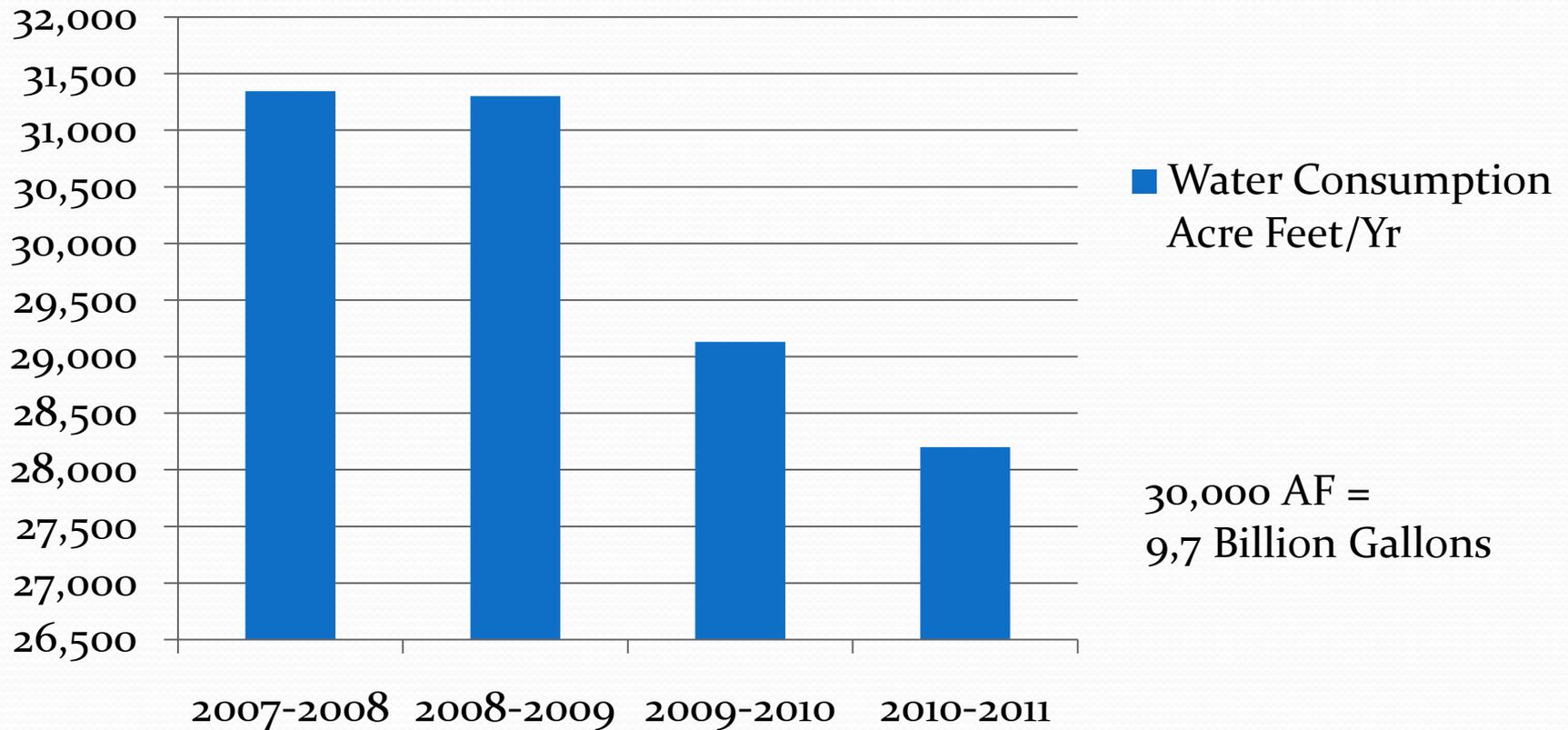
2010/11 – 28,200 Acre Feet (AF)

1 AF = 326,000 gallons

\*Percentages vary annually

# Water Consumption 2007/08 - 2010/11

## Water Consumption, Acre Feet (AF)



# Legal Mandates

- SBx 7-7 or “20 by 2020”  
State bill requiring a 20 % reduction in Water Use by Dec. 31, 2020
- California Urban Water Conservation Council (CUWCC)  
Best Management Practices for Water Use Efficiency  
Urban water use efficiency and conservation integrated with  
Water Resource Planning & Management in California
- AB 1881 – The Model Water Efficient Landscape Ordinance, MC 14.52. Law effective Jan. 1, 2010.  
Water efficient landscapes and irrigation required by law.
- H.B. Water Management Program, MC 14.18  
Water Conservation Ordinance and Water Supply Shortage Program

# Programs and Rebates

- Residential Indoor and Outdoor Water Surveys
- NEW! Rainwater Barrel program, August 2011
- School Education Program  
7,000 Huntington Beach K – 5<sup>th</sup> grade students per year.  
Administered by MWDOC and the Discovery Science Center
- \$ 1 per square foot Turf Removal Program



# Programs and Rebates

- Save Water, Save a Buck – Commercial Rebate program (MWD)
- SoCal Water\$mart – Residential rebate program (MWD)
- Water Smart Landscape Program - HOA's (MWDDOC)
- Commercial Water Audit Programs (MWDDOC)



Hotel Program: The Hyatt, Best Western  
and the Surf n' Sand

Industrial Program: AES, Boeing

# Did you know?

Running a faucet for five minutes uses as much electricity (for water purification, delivery, and treatment) as burning a 60 watt light bulb for 14 hours?

19 % of total energy consumption in California is related to water.

Turf grass is the most irrigated crop in California.

At least 48 inches of water is needed per sq. ft. of turf grass.  
H.B. average annual rain fall is 14 inches.

## H.B. Water Use Efficiency Improvement Projects

### **CalSense Central Computer Irrigation system**

- ❖ Water savings of 65% in typical neighborhood park
- ❖ Phase I and II completed
- ❖ Phase III (45 parks) to begin Oct. 1. 2011
- ❖ Water savings of 300 AF per year, totaling 5,250 AF over 15 years. (70 City parks, 3,300 kWh/AF)
- ❖ Energy savings of 17,325 MW in 15 years.
- ❖ \$175,000 US Bureau of Reclamation Grant Award
- ❖ MWD rebates for Weather Based Irrigation Controllers help offset cost (\$12,500 Phase II)

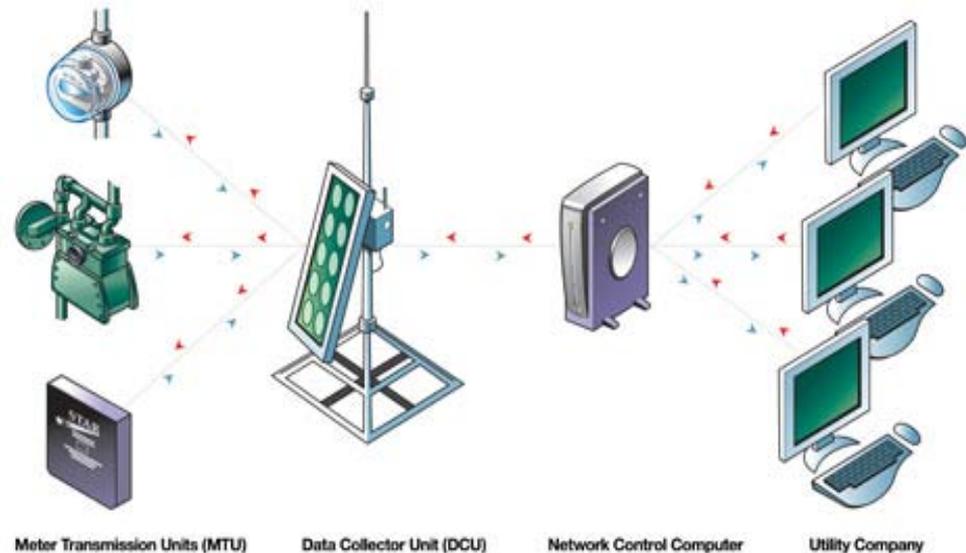
# H.B. Water Use Efficiency Improvement Projects

## Advanced Metering Infrastructure (AMI) system

The technology of automatically collecting diagnostic, consumption, and status data from “smart” water meters.

- Currently, the City has converted 10% of all accounts to AMI
- The City expects to complete the AMI conversion by 2016

- ❖ Improved water system management
- ❖ Early detection of unusual water consumption
- ❖ Greater prevention of “water lost”



# Outreach & Customer Education Programs

- “H2o for HOA’s”
- Educational booth at events
- Town hall forum “Water topics and H.B.”
- Newsletter
- Bill inserts advertising WUE rebates/programs
- Website: [www.surfcity-hb.org/hbwater](http://www.surfcity-hb.org/hbwater)
- Facebook: Huntington Beach Water
- Water Wise Demonstration Gardens
- Informational material

# Outreach & Customer Education Programs

- California Friendly Landscaping Classes
- Water Wise Garden Sign of Recognition
- Hurley US Open – MWDOC Water education booth
- Working relationships with community groups; Shipley Nature Center, Community Sustainability USA, Surfrider Ocean Friendly Gardens (OFG), OCLDN and others.



And there is plenty more to do...



**High Tech Huntington Beach outdoors A/C unit, Summer of 2010**

# Long Term Conservation Plan

Regional/MWD – Aggressive savings target of 580 TAF by 2020  
20% reduction in gallons per capita per day(gpcd). Baseline 177 gpcd.

- Support permanent behavior change
- Continuous outreach, education and information
- Conservation based retail rates – H.B. rate study
- Support retrofit actions – 2010 CA Green Building Code
- Target Irrigation Efficiency
  - Residential
  - CII (Commercial, Industrial and Institutional)
  
- The water and energy nexus
- The value of the resource
- Cost effective and sustainable strategy

“As we peer into the twenty-first century,  
water conservation is looking far more like  
an imperative than an option”

Amy Vickers

