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# **Irrigation Case Study Naval Base Ventura County**

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# NBVC STATISTICS

- Naval Base Ventura County
  - Port Hueneme Site (PH)
    - Area – 1,615 Acres
    - Landscaped – 121.57 Acres
    - Deep Water Port
  - Point Mugu Site (PM)
    - Area – 4,490 Acres
    - Landscaped – 74.58 Acres
    - Two Runways
  - San Nicolas Island Site (SNI)
    - 13,370 Acres
    - No Irrigation
    - One Runway
    - Part of 36,000 Square Mile Sea Test Range



# NBVC STATISTICS

- Population (All 3 Sites) - 19,100 Total.
- All military branches represented.
- Commands/Tenants – 80 Total.
- Largest employer in Ventura County.



# PREVIOUS IRRIGATION PRACTICES

- **Port Hueneme Site: (121.57 acres Landscape)**
  - 52.39 acres utilized automatic irrigation systems.
  - 42.84 acres utilized manually-controlled irr. systems
  - 26.34 acres were watered utilizing hose dragging
- **Point Mugu Site: (74.58 acres Landscape)**
  - 22.07 acres utilized automatic irrigation systems.
  - 40.09 acres utilized manually-controlled irr. systems
  - 12.43 acres were watered utilizing hose dragging

# COMPLETED IRRIGATION PROJECTS

- **Phase I (Port Hueneme site):**
  - Installed new underground irrigation systems with ET controllers at (9) locations, including ball field, parkways, open grass areas, and facilities.
    - 16.4 acres of new irrigation
    - 0.4 acre manual irrigation conversions
  - Installed (1) Calsense Radio Hub.



# COMPLETED IRRIGATION PROJECTS

- **Phase II (Port Hueneme site):**
  - Installed new underground irrigation systems with Calsense ET controllers at (6) locations at park, parkways, and facilities.
    - 8.6 acres of new irrigation
    - 0.5 acre manual irrigation conversions
  - Replace (60) existing irrigation controllers with new Calsense ET controllers.
  - Installed (1) Calsense Radio Hub.

# COMPLETED IRRIGATION PROJECTS

## ■ **Phase III (Point Mugu site):**

- Installed new underground irrigation systems with Calsense ET controllers at (11) locations, including ball field, parkways and facilities.
  - 8.5 acres of new irrigation
- Installed (11) new Calsense ET controllers.
- Installed (2) Calsense Radio Hubs.

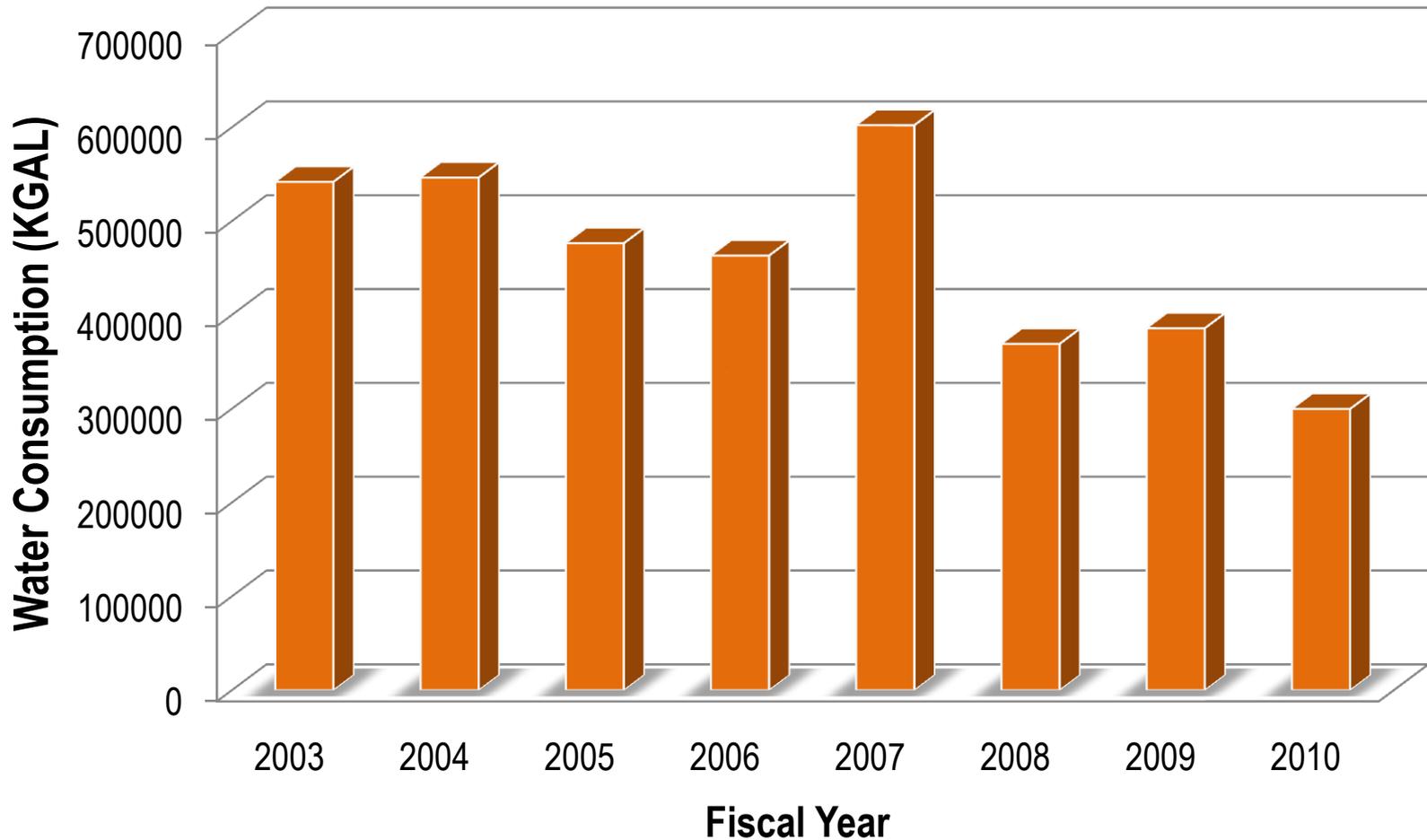
## ■ **Phase III (Port Hueneme site):**

- Replaced (19) existing irrigation controllers with new Calsense ET controllers.

# COMPLETED IRRIGATION PROJECTS

- **Phase V (Point Mugu site):**
  - Installed new underground irrigation systems with Calsense ET controllers at (2) locations – roadway median and facilities.
- **Phase V (Port Hueneme site):**
  - Installed new underground irrigation systems with Calsense ET controllers at (6) locations – facilities and parkways.
  - Replaced (6) existing irrigation controllers with Calsense ET controllers.

# NBVC WATER USAGE FY03 - FY10



# ADDITIONAL INFORMATION

- **Phase VI (PH/PM) Planned UESC:**
  - Install (20) Calsense ET controllers at various locations.
- **Current System Operation:**
  - ET systems (automatic control utilizing weather station data) at Port Hueneme and Point Mugu not yet functioning. Still awaiting final frequency and site approval from NBVC.