### Drought Of 2008 Kendall County, Texas Update: 12 January 2009

#### Water Supplies

```
Boerne City Lake
  Level: Full 42' - Currently Level 36',1" (12 Jan 09)
  Record Low: Approximately 30' (1989)
Canyon Reservoir
  Level: Full 909' - Current Level 897.82' (12 Jan 09)
  Record Low: Current Level (Previous Record 899.84', 1984)
Cow Creek Groundwater Conservation District
  Monitor Wells (31): Overall Trend Downward
Rainfall
  Total In 2008: 14.74"
  Record Low: 10.29" (1954)
  Average: 33.74" (1893-2008)
```

#### Boerne

- "Most of the Boerne homes of the 1850's got their water from springs or the crystalclear Cibolo Creek. A few homes had shallow-water wells that were between 30 to 35 feet in depth."
  - Garland Perry, Historic Images of Boerne

### City Of Boerne

TerraServer-USA Web Site (2005)



## Frederick Creek Upstream At South School Street Feb To Nov





## Frederick Creek Downstream At South School Street Feb To Nov





# Cibolo Creek River Road Dam Feb To Nov





# Herff Spring City Park Road Aug To Dec





#### City Of Boerne

Microsoft Virtual Earth (2008)



# Champion High School Browns Creek Downstream At Hwy 46 Aug 08 To Jan 09





#### Facts And Observations

- Watersheds Of Hill Country
  - Baseflow Maintained By Discharge Of Springs
- Cibolo Creek Watershed
  - Numerous Spring Fed Creeks
- Discharge From Springs
  - Indicator Of An Aquifer System In Balance
    - Discharge Evidence Of Adequate Recharge
  - Indicator Of Stress On An Aquifer System
    - Discharge From Wells Is A Multiplier

#### Way Ahead

- Increase Public Awareness
  - Encourage Aggressive Conservation Of Ground And Surface Water Supplies
  - Trinity Aquifer Is Not Just A Groundwater
     Resource It Is A Surface Water Source
    - In Time Of Drought, Both Are Affected
  - Advocate For Improved Water Resources
     Management Strategy
    - Reduce Demand, Increase Supply, Change The Culture

#### Water Conservation Strategy

- Recommend Year-Round Voluntary Conservation Measures
  - Minimize Water Use For Non-Essential Purposes
  - Typical Landscape Can Account For 60% Of Peak Usage
- Follow Rules Established By Water Supplier
  - Reflected In "Stages"
  - Enforced By Rules, Ordinance or Guideline
  - Can Prescribe Frequency. Example: Once A Week Watering
  - Can Prescribe Time Of Day. Example: Prohibit Landscape Watering By Hose End Sprinkler During 10:00 AM And 8:00 PM Year Round
  - Can Prescribe Method: Example: Sprinkler/Bucket/Hand-Held Hose
  - Can Restrict Or Prohibit Use. Example: Washing Cars and Boats
- Reduce Water Waste
  - Waste Is Always Prohibited
  - Water Running Into Street, Gutter, Or Parking Lot Is Waste
  - Violation Of Rules During Time Of Restricted Use Is Waste

#### Current Drought Stages

- Cow Creek Groundwater District
  - Applicable To All Groundwater Users and Suppliers
  - www.ccgcd.org
- City of Boerne
  - Applicable To City Residents
  - www.ci.boerne.tx.us
- Guadalupe-Blanco River Authority
  - Applicable to Cordillera Ranch
  - www.gbra.org
- Public Water Supplier
  - Applicable to Aqua Texas
  - Newsletter Or Flyer In Bill

### Closing Thought

 Reduce Demand, Increase Supply, Change The Culture