Class 1  San Francisco

1. The early days -springs and lakes-
   1888 - Crystal Springs Dam and Reservoir

2. William Bourne, owner of Crystal Springs Water Company, San Francisco's

3. The Progressive Movement - public ownership of water and power systems

4. San Francisco's first Progressive -James Phelan - renaissance man

5. Damming the Tuolumne River - in Yosemite National Park!
   Theodore Roosevelt, Phelan, Michael O'Shaughnessy, William Randolph
   Hearst vs. John Muir; the Sierra Club, and William Bourne -
   The Raker Act -1913

6. O'Shaughnessy Dam

7. Getting the water to San Francisco - not until 1934

8. San Francisco water - who are the biggest consumers?
Water Wars in the Age of Global Warming---Class Schedule

Class 1  San Francisco - damming the Tuolumne River in Yosemite National Park

Class 2  William Mulholand--bringing the Owens River water to Los Angeles
         Creating the Imperial Valley--diverting the Colorado River into the Salton Sink

Class 3  Bringing Colorado River water to Southern California--the Colorado River
         Compact--Hoover Dam--the Colorado River Aqueduct
         Bringing Colorado River water to Arizona--Glen Canyon Dam

Class 4  Northern California--fighting floods on the Sacramento River--levees and
         levee wars--in the 1920's & 1930's California creates a state "Water Plan"
         the great dams are built--Shasta, Friant, Folsom--the 1960s bring
         Edmund "Pat" Brown, Oroville Dam, and the California Aqueduct

Class 5  Today new challenges--the southwest's precipitation cycles are shortened
         and accentuated by global warming--severe drought followed by heavy
         snow, rain -- drought in the Colorado River Basin since 2000
         agriculture, cities, the environment fighting for scarce water

Classes 6 & 7
         What to do? aggressive conservation measures--more storage capacity
         recharging groundwater aquifers--recycling "grey water"--desalinization--
         The rest of America-flooding in the Midwest--flooding in the southeast

Class 8  The rest of the world--dire drought coming in the Middle East, Iran,
         central Africa, Pakistan, China, southeast Asia, Australia
         Biotech offers real hope for feeding the world

NO CLASS ON MAY 7