California Water: A Shared Issue.

Too Little Fresh Water
When We Need
Where We Need It.

Too Much Salt Water
Where We Don’t Want It.

Will Travis, Executive Director
San Francisco Bay Conservation and Development Commission
Decreasing California Snowpack

Historical Average (1961–1990)

100% remaining

2070–2099

Lower Warming Range
Drier Climate

40% remaining

Medium Warming Range
Drier Climate

20% remaining

April 1 snow water equivalent (inches)
Salinity Change in the Bay and Suisun Marsh

Current Summer Conditions

Projected 2060 Summer Conditions

Salinity Control Gate

Source: Knowles

Wet-Year summer salinity field shifts upstream 10-15km due to reduced spring/summer snowmelt runoff
California Statewide Climate Change Emissions Reduction Programs

- **AB 1493 (2002) Pavley Bill**
  - Vehicles sold in California must emit 20% fewer GHGs by 2012 and 30% fewer by 2016

- **AB 32 (2006) Global Warming Solutions Act**
  - Reduce GHG emissions at least 20% by 2020

- **SB 375 (2008)**
  - Requires regional plans to address GHG emissions from land use and transportation
2000 Population Density for the San Francisco Bay Region

2000 Census Block Group
Persons per 30m pixel
- 0.00006 - 0.5
- 0.50 - 1.00
- 1.00 - 2.00
- 2.00 - 3.00
- 3.00 - 4.00
- 4.00 - 5.00
- 5.00 - 7.00
- 7.00 - 10.00
- 10.00 - 15.00
- 15.00 - 146.00
- Zero Population - Exclusion
HOME FOR SALE
Projected Sea Level Rise

Three Emissions Scenarios:
- A1fi - High
- A2 - Medium High
- B1 - Low

Source: California Climate Action Team Report 2009
San Francisco International Airport

Sixteen Inch Sea Level Rise and Fifty-five Inch Sea Level Rise
Oakland International Airport

Sixteen Inch Sea Level Rise and Fifty-five Inch Sea Level Rise
Silicon Valley

- Sixteen Inch Sea Level Rise
- Fifty-five Inch Sea Level Rise
Oh what to to, what to dooo?
FLOOD LEVEE CONSTRUCTION MANUAL

30 YEAR PROTECTION

100 YEAR PROTECTION

400 YEAR PROTECTION

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Focusing Our Vision: Regional Analysis
Potential Priority Areas based on TAC Composite Scenario

Association of Bay Area Governments
Metropolitan Transportation Commission

Average Weight of all Themes Voted on by TAC Members
San Francisco Bay Plan
An Integrated Regional Climate Strategy:
An Impossible Dream or a Realistic Goal?

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San Francisco Bay Conservation and Development Commission