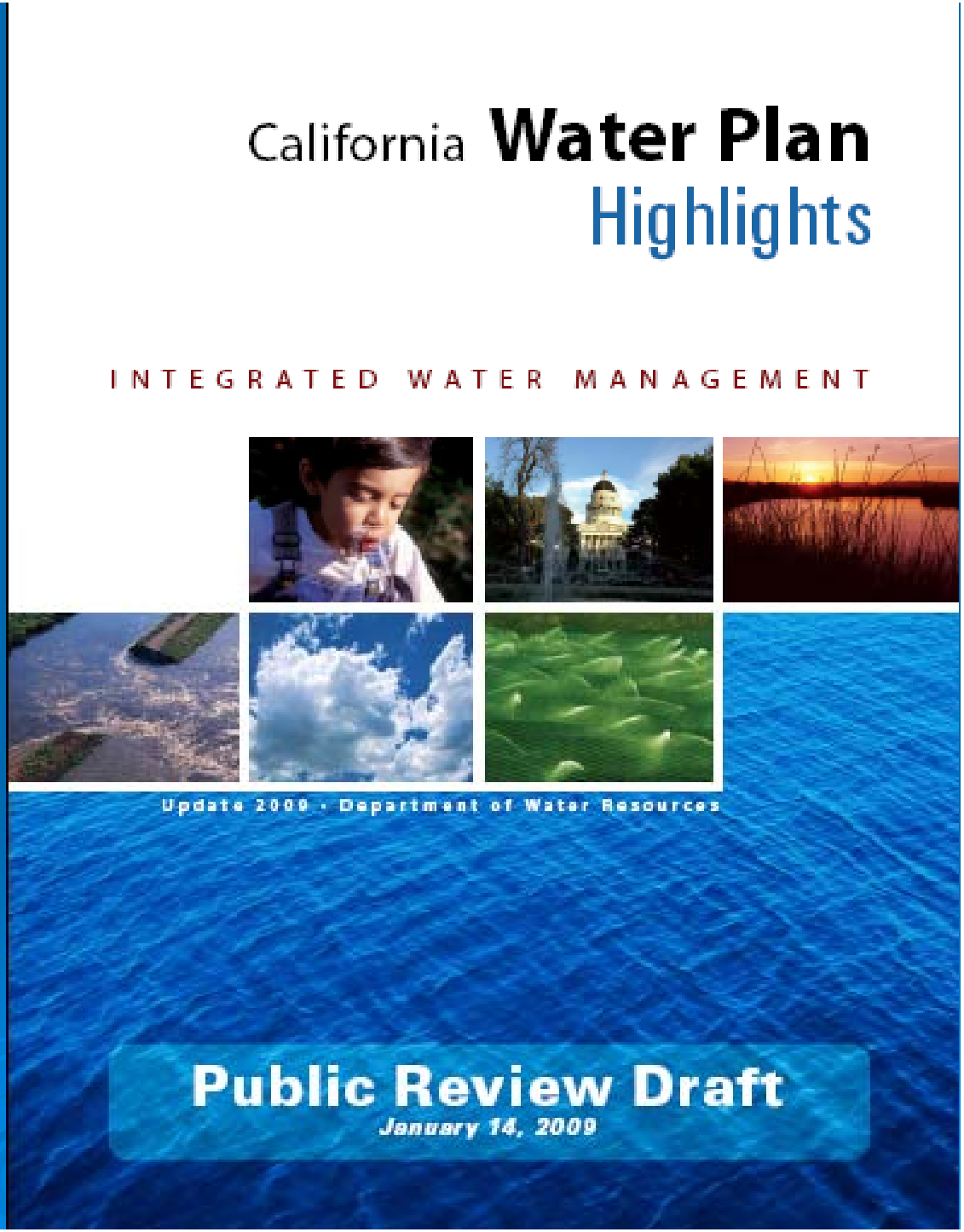
California Water Plan Update 2009

Overview of PRD Comments & Responses

Highlights & Vol. 1

Advisory Committee
August 13, 2009



Agenda Item 6A

Overview of PRD Comments & Responses

Sources & Distribution of PRD Comments

Source	General	Highlights	Vol. 1	Vol. 2	Vol. 3	TOTAL
137 Letters & Emails	48	12	114	263	228	665
12 Regional Workshops	62	130	85	10	32	319
TOTAL	110	142	199	273	260	984

Types of PRD Comments

Type	General	Highlights	Vol. 1	Vol. 2	Vol. 3	TOTAL
P Policy	8	48	85	51	16	192
T Technical	8	30	25	134	115	312
G Graphics/ Format	6	41	24	28	27	110
O Other	6	1	20	28	32	71
Pending	82	22	45	32	70	299
TOTAL	110	142	199	273	260	984

Responses to Comments

Type	General	Highlights	Vol. 1	Vol. 2	Vol. 3	TOTAL
1 Covered	4	47	40	31	23	145
2 Changes	12	40	52	156	123	374
3 No Change	2	14	7	19	17	58
4 Parking Lot	2	4	9	15	19	44
5 Not Related	1	9	7	17	9	42
Pending	89	28	84	35	69	321
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Comments & Responses Highlights

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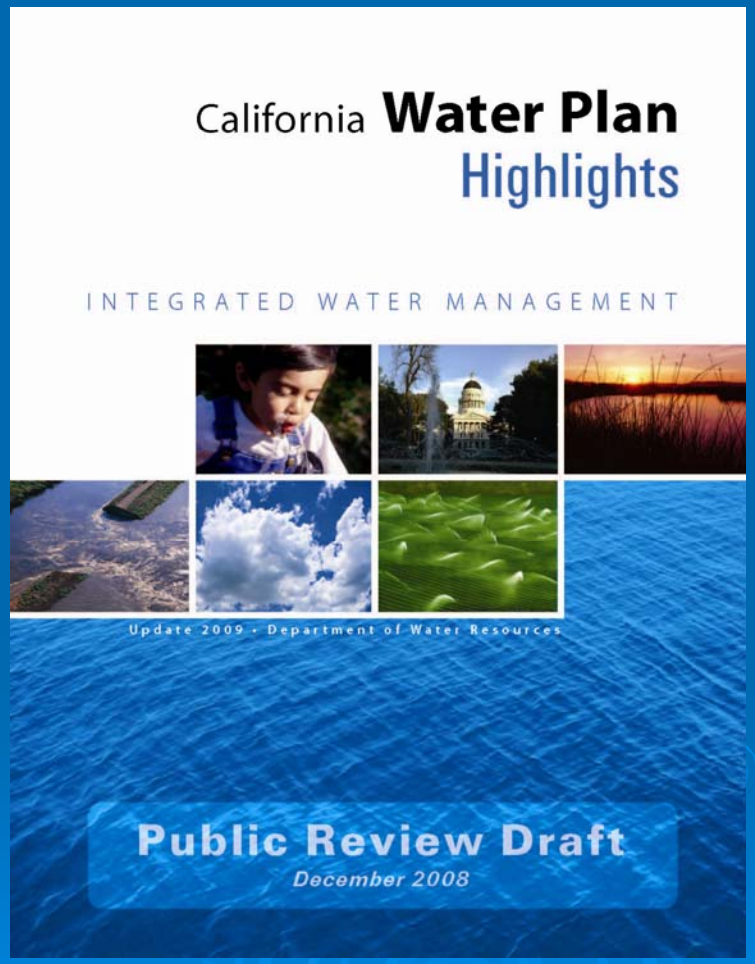
Changes to Highlights PRD

- Additional pages new subsections & expanded information
  - Contents page for *Highlights*
  - At-a-glance guide to Water Plan vols.
  - Glossary of key water definitions
  - California's Water Resources
  - Water Scenarios 2050
- Evolving graphics
  - Statewide & regional water balances
  - Scenario water demand changes (Statewide, by Sector, by Region)
  - Resource Management Strategies



Comments & Responses Volume 1 Strategic Plan

Types of PRD Comments

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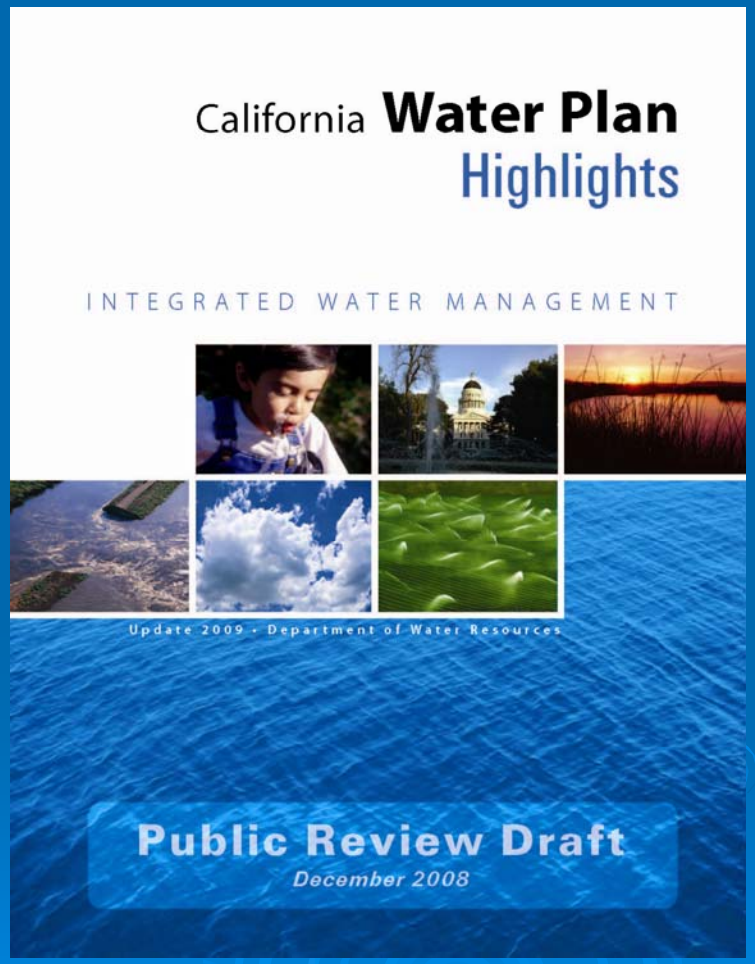
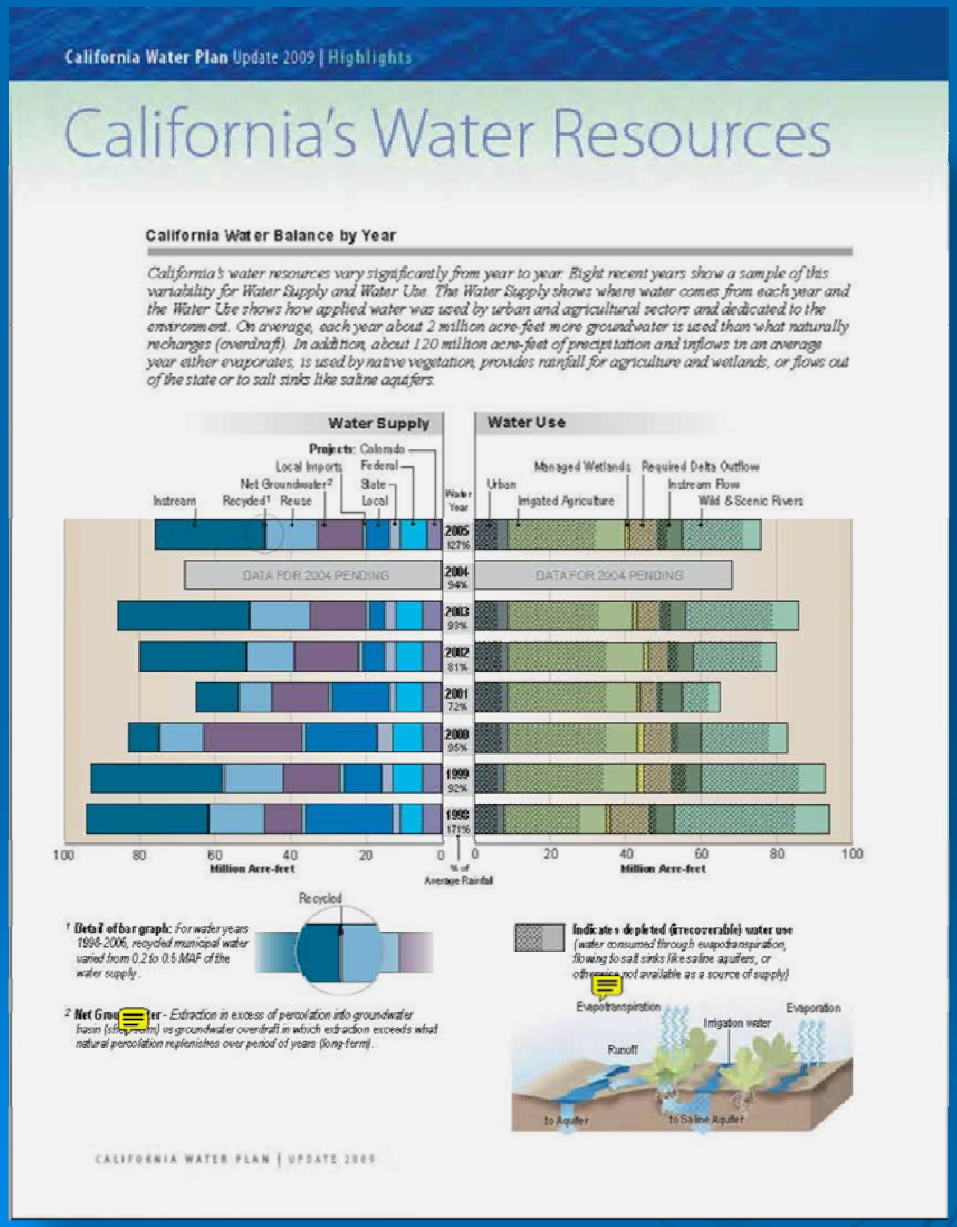
Changes to Volume 1 PRD

- Progress since Update 2005
  - More detailed & moved to Reference Guide
  - Summarized in Chapter 1 Introduction
- Updating Ch3 Companion State Plans
  - *2009 California Climate Adaptation Strategies*
  - Clarify State agencies' water authority
- Statewide water balances and conditions
  - Moved to Chapter 4 California Water Today
  - Formerly Volume 3 Chapter 1
- Statewide scenarios
  - Moved to Ch 5 Managing an Uncertain Future
  - Formerly Volume 3 Chapter 1
- Chapter 7 Implementation Plan
  - Additional dates, data, and actions
  - Based on comments and updated reports



Evolving Highlights Graphics

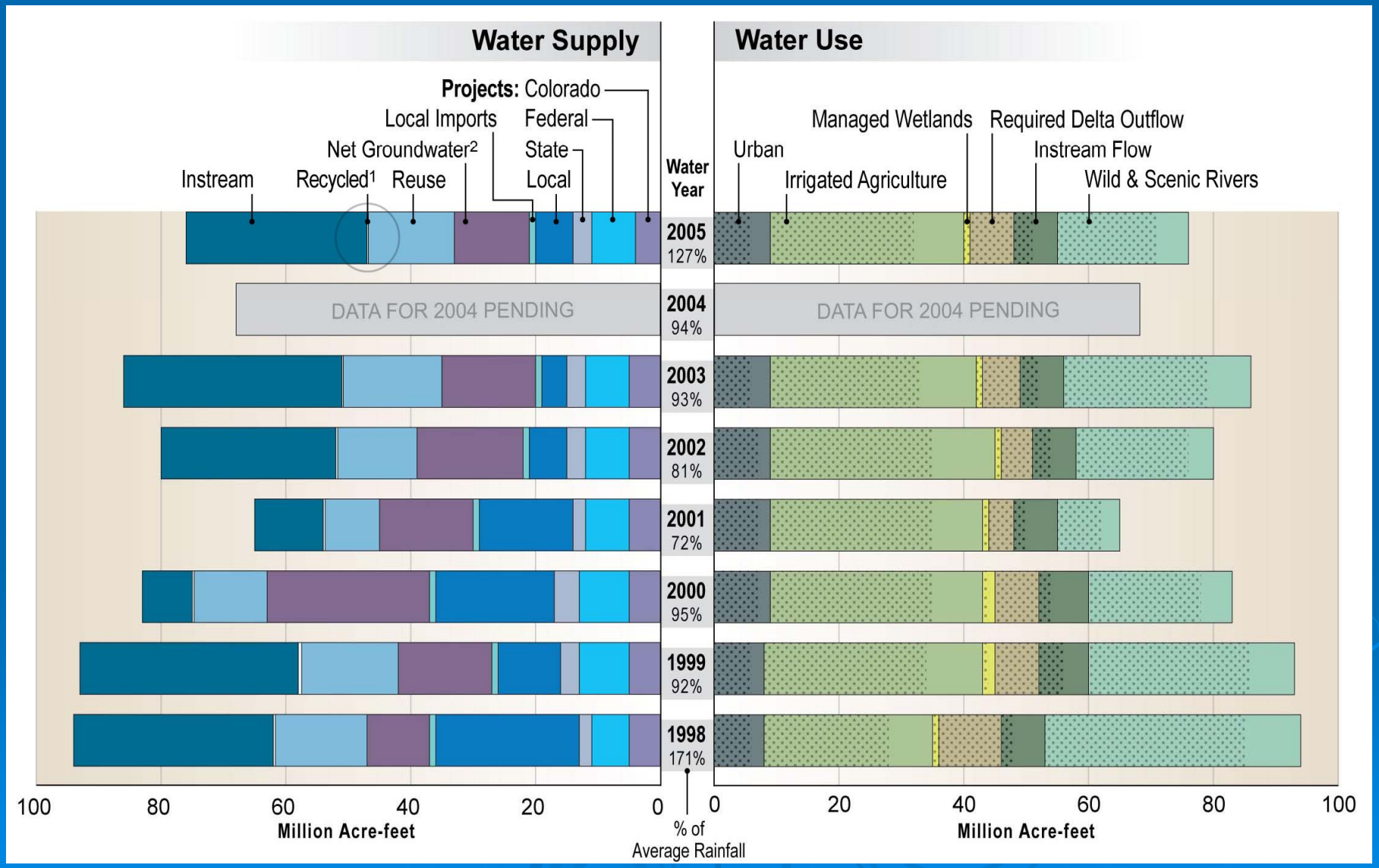
CA Water Balance by Water Year



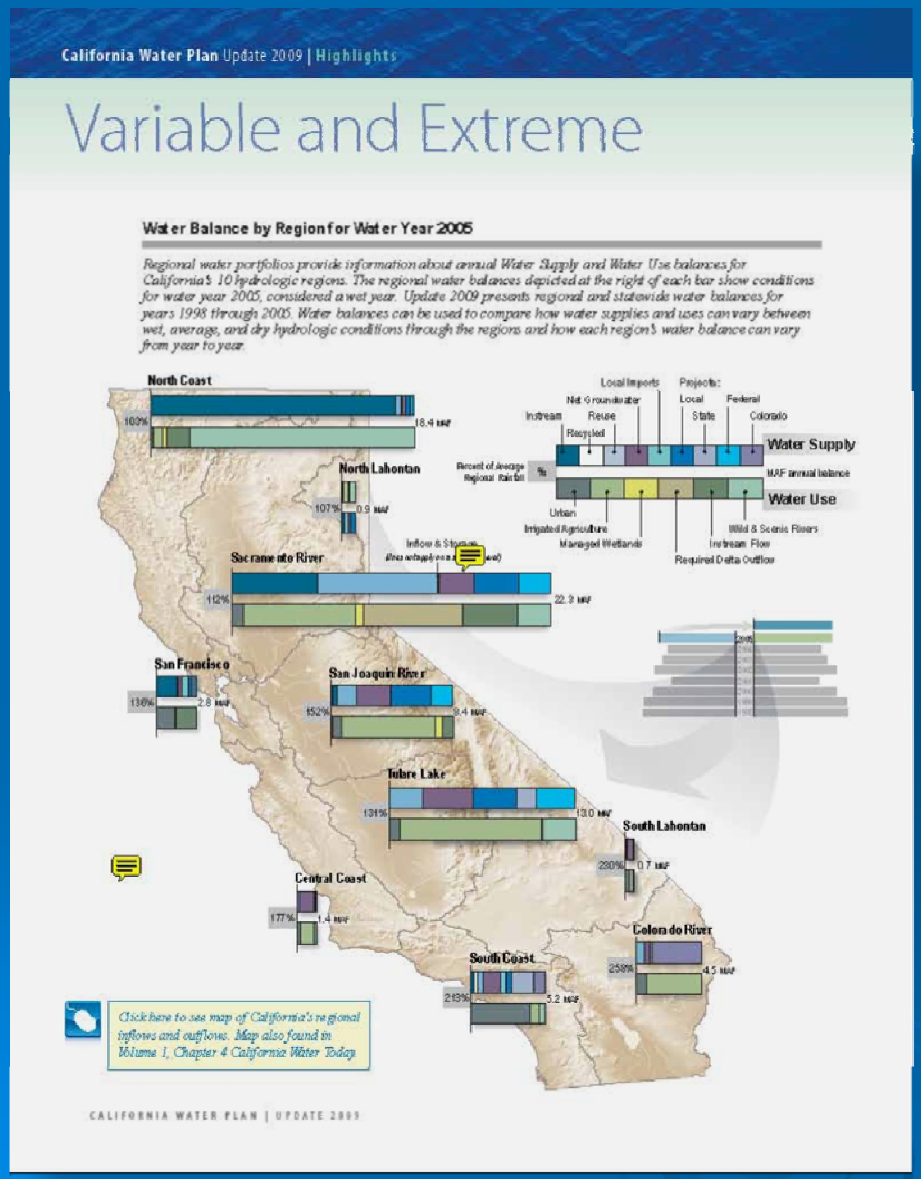
HANDOUT

Eight recent years, 1998 to 2005, statewide data of Water Supply and Water Use.

CA Water Balance Close Up

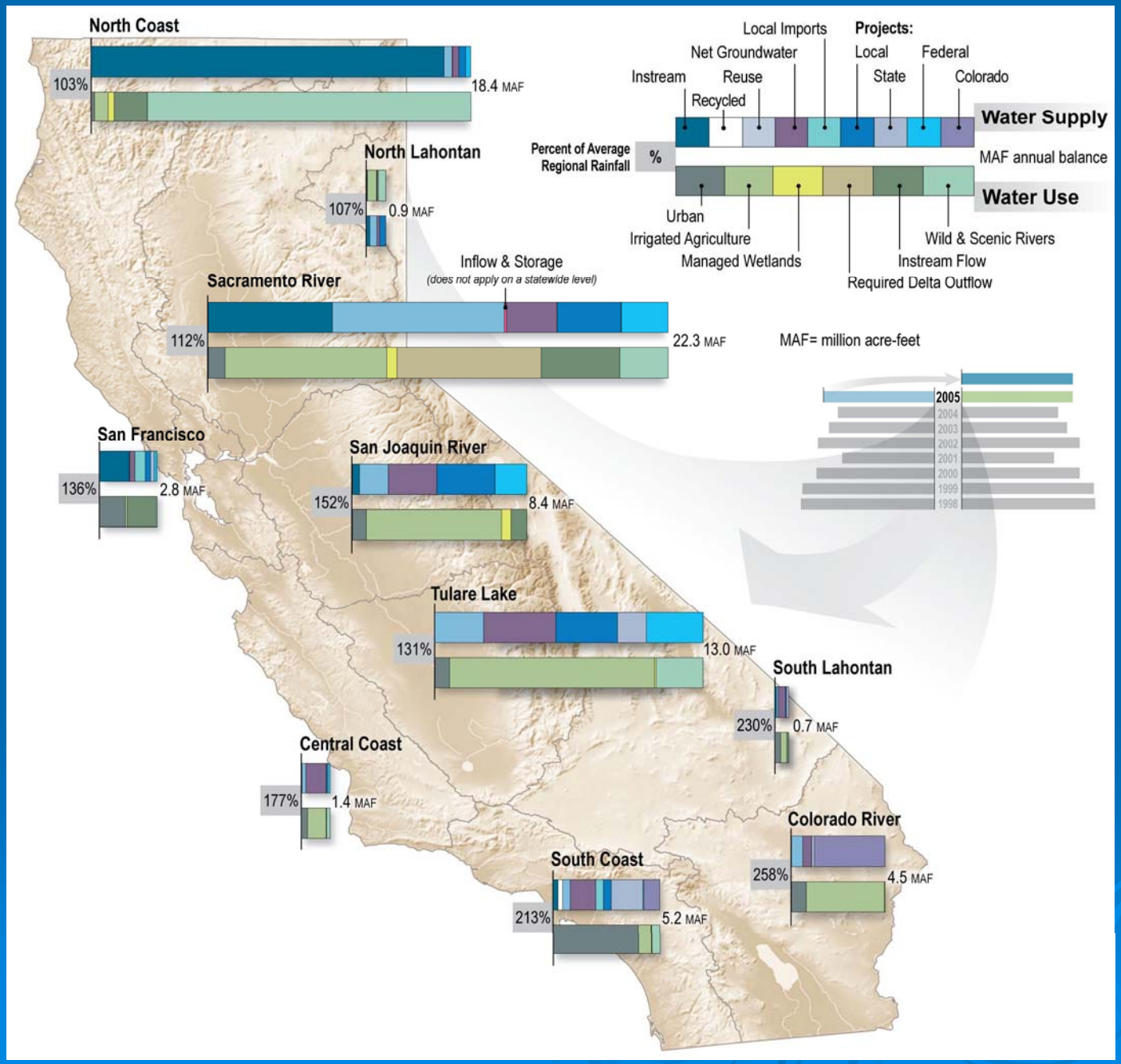


2005 Water Balance by Region



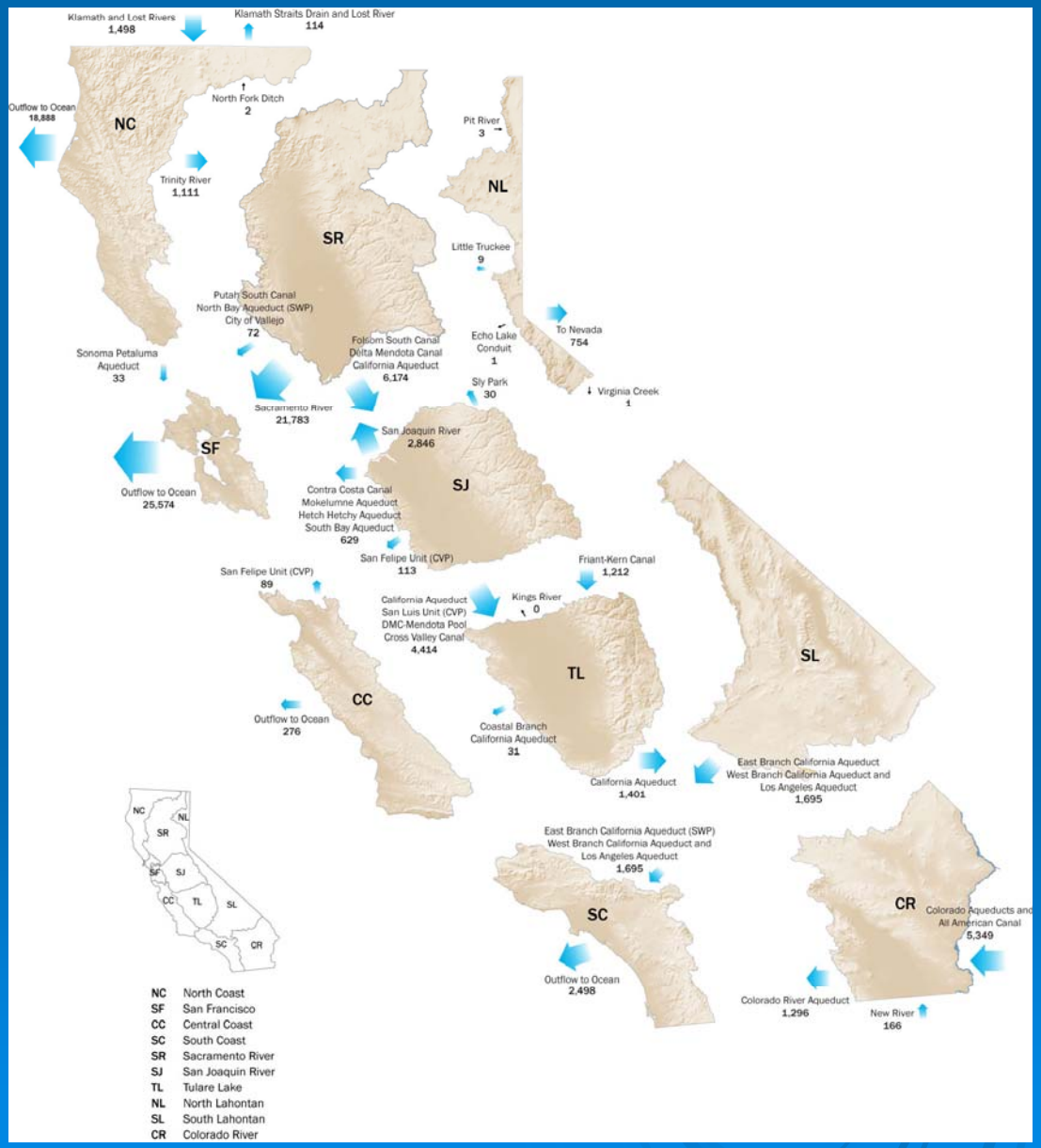
HANDOUT

2005 Water Balances considered a wet year shows regional variability



2005 Regional Water Balance Close Up

2005 Water Balance by Region



In electronic Highlights click Yellow Box to see

2005 Inflows & Outflows by Region

Resource Management Strategies

Resource Management Strategies

Potential Strategy Benefits										
Provide Water Supply Benefit (MAF/year)	Improve Drought Preparedness	Improve Water Quality	Operational Flex & Efficient	Reduce Flood Impacts	Environmental Benefits	Energy Benefits	Recreational Opportunities	Reduce GW Overdraft	Accumulated Cost by 2030 (Billions)

Reduce Water Demand

Water conservation has become a viable long-term supply option because it saves considerable capital and operating cots for utilities and consumers, avoids environmental degradation, and creates multiple benefits.

Strategy	MAF/year	Potential Strategy Benefits								Accumulated Cost by 2030 $ Billions
Agricultural Water Use Efficiency	0.1 - 0.6									X.X
Urban Water Use Efficiency	1.2 - 3.1									X.X

Improve Operational Efficiency & Transfers

California's water system responds to our need to move water from where it occurs to where it will be used.

Strategy	MAF/year	Potential Strategy Benefits								Accumulated Cost by 2030 $ Billions
Conveyance—Delta	0.1 - 0.6									X.X
Conveyance—Regional/Local (under development)										
System Reoperation										
Water Transfers										

Increase Water Supply

California's communities are finding innovative ways to generate new supplies.

Strategy	MAF/year	Potential Strategy Benefits								Accumulated Cost by 2030 $ Billions
Conjunctive Management & Groundwater Storage	0.5 - 2.0									X.X
Desalination – Brackish & Seawater	0.3 - 0.4									X.X
Precipitation Enhancement	0.3 - 0.6									X.X
Recycled Municipal Water	0.9 - 1.4									X.X
Surface Storage—CALFED	0.1 - 1.0									X.X
Surface Storage—Regional/Local										

A Range of Choices

Potential Strategy Benefits										
Provide Water Supply Benefit (MAF/year)	Improve Drought Preparedness	Improve Water Quality	Operational Flex & Efficient	Reduce Flood Impacts	Environmental Benefits	Energy Benefits	Recreational Opportunities	Reduce GW Overdraft	Accumulated Cost by 2030 (Billions)

Improve Water Quality

Improved water quality can directly improve the health of Californians and our ecosystem.

Strategy	MAF/year	Potential Strategy Benefits								Accumulated Cost by 2030 $ Billions
Drinking Water Treatment and Distribution										
Groundwater/Aquifer Remediation										
Matching Quality to Use										
Pollution Prevention										
Salt and Salinity Management										
Urban Runoff Management										

Practice Resource Stewardship

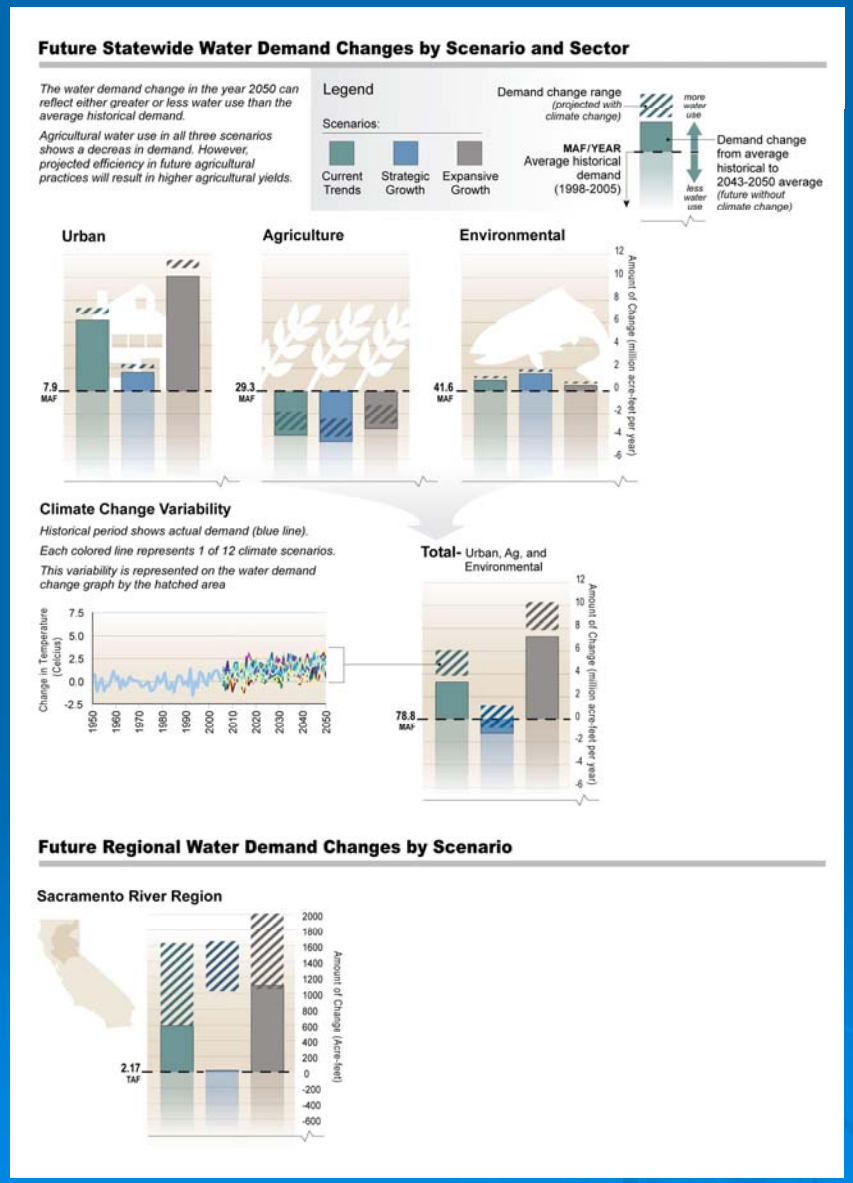
We must protect other resources as we make water supplies available for other beneficial uses.

Strategy	MAF/year	Potential Strategy Benefits								Accumulated Cost by 2030 $ Billions
Agricultural Lands Stewardship										
Economic Incentives (Loans, Grants, Water Pricing)										
Ecosystem Restoration										
Forest Management	0.1 - 0.4									X.X
Land Use Planning and Management										
Recharge Area Protection										
Water-dependent Recreation										
Watershed Management										

Improve Flood Management

Strategy	MAF/year	Potential Strategy Benefits								Accumulated Cost by 2030 $ Billions
Flood Risk Management										

Scenario Water Demand Change



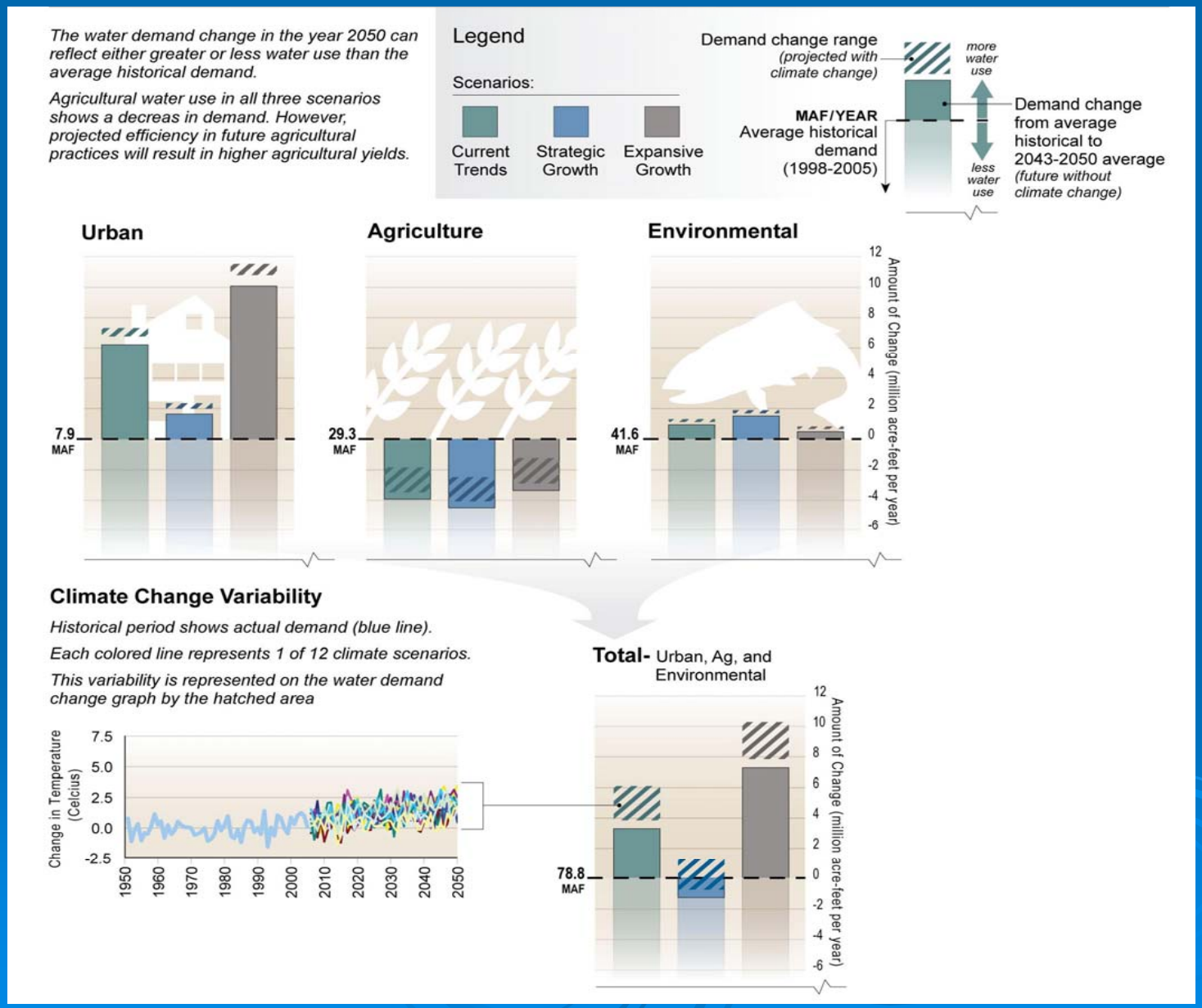
HANDOUT

Top: Charts By Sector & Statewide

Bottom: Example Regional Chart

Show scenario demand changes with historical & changing climate

Scenario Water Demand Change Close Up



Questions & Comments