Agenda Item 4
Overview of PRD & Highlights Brochure
California Water Plan
Update 2009

Overview of PRD & Highlights Brochure

Regional Workshops
April - May 2009
Water Plan Update Organization
Inside Front Cover

- Water Plan Highlights (with CD)
- Vol. 1 > The Strategic Plan
- Vol. 2 > 27 Resource Management Strategies
- Vol. 3 > 12 Regional Reports
- Vol. 4 > Reference Guide - coming (Online articles)
- Vol. 5 > Technical Guide - coming (Online documentation)
Imperative to Act to Keep Pace w/ Changes pages 4 - 5

- Population growth
- Shift to permanent crops
- Delta & watersheds in decline
- Climate Change profoundly impacting water systems
- Aging water & flood systems challenged by legal remedies & regulatory protections
- Growing economic & societal consequences of declining water reliability and degraded quality of surface & groundwater supplies
Imperative to Act to Keep Pace w/ Changes

The *Entire* System –

water & flood management, watersheds & ecosystems

– has lost resilience and is changing in undesirable ways.
CA Water -- Variable & Extreme

Water Portfolios

80 data categories for 1998 - 2005
Climate Change Increasing Stress on System

- Air temperature
- Precipitation amount, timing and type
- Runoff timing and quantity
- Sea level rise
We Expect Many Water Resource Consequences

- Flood Management
- Water Supplies
- Water Quality
- Water Demands
- System Operations
- Ecosystems
How Climate Change Impacts California’s Water Resources

- **Reduced snowpack** impacting water supply and hydropower

- **Earlier snowmelt** increasing flood control portion of reservoir space

- **Higher water temperatures** degrading aquatic ecosystems

- **Rising sea level** threatening the Delta, bays, estuaries & coastline
  - destabilizing levees
  - increasing SW/GW salinity

- **Higher water demand** all sectors
Update 2009 – State’s Blueprint
Integrated Water Management & Sustainability
pages 10 - 11

VISION

- Public Health, Safety, Quality of Life
- Vitality, Productivity, Economic Growth
- Healthy Ecosystem, Cultural Heritage

Foundational Actions for SUSTAINABLE WATER USES
- Use Water Efficiently
- Protect Water Quality
- Expand Environmental Stewardship

Initiatives for RELIABLE WATER SUPPLIES
- Expand Integrated Regional Water Management
- Improve Statewide Water and Flood Management Systems
Strategic Plan Elements

double foldout 10A – 10D

- Desired future for CA water & Purpose of Water Plan
- Desired outcomes for the 2050 planning horizon
- Core values & philosophies
  - Statements of intent / Focus on what & when
- Removing impediments & leveraging opportunities

Vision & Mission

7 Goals

10 Guiding Principles

13 Objectives & 100 Actions

9 Recommendations
1. Expand integrated regional water management
2. **Use and reuse water more efficiently**
3. Expand conjunctive management of multiple supplies
4. **Protect surface and groundwater quality**
5. Expand environmental stewardship
6. **Practice integrated flood management**
7. Manage a sustainable California Delta
8. Prepare prevention, response & recovery plans
9. Reduce energy consumption of water systems & uses
10. **Improve data & analysis for decision-making**
11. Invest in new water technology
12. **Improve Tribal water & natural resources**
13. Ensure equitable distribution of benefits

*13 Linked Objectives & 100 Related Actions*
3 Water Scenarios
A Range of Considerations thru 2050
pages 12 - 13

Current Trends – Recent trends continue into the future

Blueprint Growth – Coordinated planning & development

Expansive Growth – More resource intensive conditions

Many Factors
What will be California’s water demands in 2050? The Water Plan looks at 80 factors that can affect water use. They fit into these categories. Assumptions about how these factors may change—using future scenarios—can help us plan for future water demands.
## 27 Resource Management Strategies

### A Range of Choices [pages 14 – 15]

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<th>Reduce Water Demand</th>
<th>Improve Water Quality</th>
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<td>➢ Urban Water Use Efficiency</td>
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Variable Conditions & Unique Responses
12 Regional Reports
pages 16 - 17

- Setting
- Regional Water Conditions
- Relationship with Other Regions
- Regional Water and Flood Planning and Management
- Looking to the Future
- Water Portfolios 1998-2005
- Selected References
Recommendations

1. Implement Water Plan’s actions
2. Need finance plan with stable/continuous funding
3. Ecosystem health & water reliability are co-equal
4. State govt leads, assists & oversees regions
5. State & federal govt lead & support research for climate adaptation and mitigation
6. Improve coordination of land use policies, economic development & water/flood/resource management
7. Renovate & improve aging water, wastewater & flood infrastructure
8. Articulate & update roles, authorities & responsibilities
9. Increase public water awareness
Questions & Discussion A