

Detailed Outline for Chapter 2

Executive Summary

Chapter 1 – Introduction

Chapter 2 – Study Area Description

2.1. General Regional Descriptions

- 2.1.1. Upper Sacramento River Region
- 2.1.2. Lower Sacramento River Region
- 2.1.3. Upper San Joaquin River Region
- 2.1.4. Lower San Joaquin River Region
- 2.1.5. Delta Region

2.2. Existing Resources Conditions

2.2.1. Physical

Topography, Geology, Soils, and Bathymetry (Delta)

Geomorphology

Mining legacy (LSac)

Sedimentation and erosion (Delta)

Mercury/Heavy Metals Transport (LSac)

Subsidence (Delta)

Hydrology, River Hydraulics, and Flood Management

Channel Geometry/Capacity (USJ)

Routing of flood waters (team)

Tidal effects (Delta)

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Water Quality

Air Quality (move to socio-economics, USJ)

Climate and Meteorology (USJ, Delta, LSac)

Prevailing wind patterns (Delta)

Floodplains (LSac)

Seismic conditions (Delta)

2.2.2. Biological Conditions

Include in introduction – Connectivity (LSac)

Vegetation

Native/non-native/invasive vegetation (USJ, LSac)

Riparian Habitat (LSac)

Forest management (LSac)

Wetlands

Recreation (Delta, LSac)

Wildlife

Recreation (Delta, LSac)

Fisheries and Aquatic Resources

Recreation (Delta, LSac)

Native/Non-native/Invasive species (LSac)

Special Status Species

Agriculture (LSac)

Working landscapes – multi-purpose lands (LSac)

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HCP/NCCP efforts (LSac)

??Species/ecological linkages (USJ)

2.2.3. Social and Economic Conditions

Population

And projected growth (LSac)

Land Use

Planned growth (LSac)

Development projects "in pipeline" (LSac, Delta)

Changing of landscapes (runoff patterns) (LSac)

Built landscape (LSac)

Limitation on Development (Delta)

Small and legacy communities (subsets) – (Delta, LSac)

Agriculture (USJ, Delta)

Subsistence Fishing (Delta)

Recreation (Delta)

Wild and Scenic

Visual Resources

Environmental Justice

Farm workers (Delta)

Interaction of FM and water supply (including G.W.) (LSac)

Relationship between FM and economic development (team)

2.2.4. Cultural Resources

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Prehistoric Resources

General history of area and sub-regions (LSac)

Historic Resources

General history of area and sub-regions (LSac)

Community character (heritage towns) (LSac, Delta)

Asian-American Heritage (Delta)

Native American Groups

Indian Trust Assets

??Significance of flood control system (LSac)

2.2.5. Infrastructure

Flood Management Facilities (USJ)

SPFC (LSac)

Levees (LSac, Delta)

Dams and Reservoirs (LSac)

Flood control structures (weirs, drop structures, drainage structures, control structures, outfalls, gates) (LSac, Delta)

Pumping plants (team)

Channels and floodways (LSac, Delta)

Local flood control projects (connection to the larger system (SPFC)) (LSac)

Levees (LSac, Delta)

Dry land cross levees (Delta)

Dams and Reservoirs (LSac)

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Flood control structures (weirs, drop structures, drainage structures, control structures, outfalls, gates) (LSac, Delta)

Pumping plants (team)

Channels and floodways (LSac, Delta)

Irrigation and Drainage District Information (LSac)

Misc facilities (team)

Designated floodways and flow easements (CVFPB) (LSac)

Encroachments (LSac, Delta)

Bypasses (LSac, Delta)

Multipurpose Dams and Reservoirs (LSac)

Diversions, Fish Screens, and Ladders (Fish Barriers) (LSac)

Transportation

Roads (LSac, Delta)

Ports (LSac, Delta)

Shipping channels and Waterways (Delta)

Marinas, houseboats, docks, abandoned vessels (Delta)

Railroads (Delta)

Water Supply

CVP facilities (team)

SWP facilities (team)

Local (team)

Agricultural and Irrigation Facilities (Delta)

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Water Supply Contamination and Intrusion (Delta)

Power and Energy

Natural gas storage and conveyance (Delta)

Electrical transmission (Delta)

Wind farms (Delta)

Utilities and Public Services

Water treatment, Sewer, and Stormwater (Delta)

Communication Towers (Delta)

2.2.6. INSTITUTIONAL

Laws and regulations (federal/state/local/regional) (LSac, USJ)

Governance Structures and Responsibilities (LSac, USJ)

Jurisdictional issues and distinctions (LSac)

*Coordination amongst disparate single-use entities
(LSac)*

*Conflict between land use and flood management
(Delta)*

*Institutional responsibility and planning processes (eg:
IRWM plans, forest management plans, etc.) (LSac)*

Funding

Revenue generation (Delta)

*Relationship between governmental structure and funding
(LSac)*

Considerations for funding (LSac)

Local cost and share and indemnification (LSac)

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Coordination of flood operations (local, regional) (USJ)

Robust and accessible telemetry system (LSac)

Emergency planning, response and recovery (how the system “ramps”) (LSac)

Escape and evacuation routes (Delta)

Managing residual risks to flooding (LSac)

Insurance (risk management) (LSac)

Behavior modification (LSac)

Hazard classification (related to FEMA maps) (LSac)

??Single purpose (LSac)

2.3. Likely Future Resources Conditions and Challenges

2.3.1. Planning Horizon

2.3.2. Impending Projects and Programs

2.3.3. Influencing Factors

Climate Change and Sea Level Raise

Population and Socio-Economic Conditions

Water Needs

Land Use and Land Cover

Subsidence

2.3.4. Physical Conditions

2.3.5. Biological Resources

2.3.6. Social and Economic Conditions

2.3.7. Cultural Resources



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2.3.8. Infrastructure

Chapter 3 – Problems and Opportunities

Chapter 4 – Goals and Objectives

Chapter 5 – Supporting Evaluations

Chapter 6 – Future Actions

Chapter 7 – Initial Findings

Chapter 8 – References

Lists of Tables, Figures, and Plates

Glossary

Appendixes (or Regional Memos)