San Francisco Bay Sediment Science Strategy

Connecting Science and Management

Anniken Lydon, San Francisco Bay Conservation and Development Commission
San Francisco Estuary

<table>
<thead>
<tr>
<th>Metro Area</th>
<th>GDP Current $ (2017)</th>
<th>% Growth Current $</th>
<th>% Growth Constant $</th>
</tr>
</thead>
<tbody>
<tr>
<td>San Fran-Oakland</td>
<td>$500.71</td>
<td>5.3%</td>
<td>3.4%</td>
</tr>
<tr>
<td>San Jose</td>
<td>$27.53</td>
<td>8.4%</td>
<td>7.6%</td>
</tr>
<tr>
<td>Santa Rosa</td>
<td>$28.67</td>
<td>4.6%</td>
<td>3.2%</td>
</tr>
<tr>
<td>Vallejo</td>
<td>$21.42</td>
<td>5.1%</td>
<td>2.4%</td>
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<tr>
<td>Napa</td>
<td>$11.45</td>
<td>3.1%</td>
<td>2.9%</td>
</tr>
<tr>
<td>Bay Area</td>
<td>$837.54</td>
<td>6.3%</td>
<td>4.8%</td>
</tr>
<tr>
<td>California</td>
<td>$2,746.87</td>
<td>4.9%</td>
<td>3.0%</td>
</tr>
<tr>
<td>United States</td>
<td>$19,390.60</td>
<td>4.1%</td>
<td>2.1%</td>
</tr>
</tbody>
</table>

Source: Bureau of Economic Analysis, U.S. Dept. of Commerce
Analysis: Stephen Levy, Director of the Center for Continuing Study of the California Economy; Bay Area Council Economic Institute.
Managing Sediment

Federal Partners

State Partners

[Logos of various federal and state partners]
Managing Sediment

San Rafael
Creek
Napa River
Redwood City
Oakland Harbor
Richmond Harbor
Jack D. Maltester 
Channel
Suisun Bay

San Francisco 
DODS Site

SF Bay Navigation & Env Restoration Projects with Dredged Material Disposal Sites

SF Bay Navigation Projects
Bay Area Disposal Site
SPN Env Restoration Project
Other Env Restoration Project

No Scale
Managing Sediment
Changing Conditions
Sediment Planning at BCDC

• LTMS Plan and Studies
• Science Workshops
• Regional Sediment Management (RSM) Planning
2015 Sediment Workshop - Goals

- **Establish an understanding** between practitioners and scientists about information needs and management decision considerations.

- **Identify priority management issues** by area related to the physical processes of sediment in the Bay.

- **Develop a research strategy** for how to address the highest priority sediment management issues.
2015 Sediment Workshop Outcomes

- Prioritized list of sediment questions
- Summary report of the workshop and the discussions that took place
- Outline of a sediment research strategy
  - Three priority research questions
  - Region-wide monitoring and data needs
  - Interested scientists and managers
Science Strategy Goals

- Review existing research
- Identify data gaps
- Identify management needs
- Develop research priorities
- Support sediment research that responds to management needs
Science Strategy Framework

- Two main sections
  - Monitoring and Reporting – Geographic Scale
  - Research and Modeling – Research Topics
- Discusses both fine and coarse sediment
Science Strategy Key Findings

- Recommendations
  - Monitoring priorities
  - A centralized database for sediment data
  - Increased information/data sharing
  - More data for calibrating regional models

- Next Steps
  - Circulate the draft Science Strategy to stakeholders for feedback and comments
Other Regional Science Strategy Work

- Baylands Ecosystem Habitat Goals Update
- Subtidal Habitat Goals
- Healthy Watersheds Resilient Baylands - The San Francisco Estuary Institute (SFEI)
- Regional Monitoring Program (Water Board):
  - Wetlands Regional Monitoring Program
  - Sediment Regional Monitoring Program
Questions

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