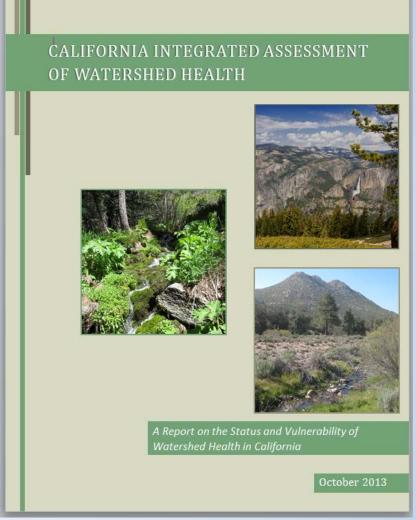






Summary of California Integrated Assessment of Watershed Health Report



Presentation to California Water Quality Monitoring Council
February 19, 2014
Lori Webber
State Water Board

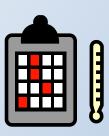
California Integrated Assessment of Watershed Health

- Partnership between USEPA Healthy Watershed Initiative and the Healthy Streams Partnership.
 - USEPA funded
 - Technical work conducted by Cadmus
 - HSP served as the technical review team
- Objective: Develop integrated assessments of watershed health for California
 - Multimetric indices
- Project initiated in 2011
 - Update to Council March 2013
 - Final report released October 2013

Terminology

Indicator or Metric = measurement of
something (water temperature, % natural land
cover)

Multimetric Index = a group of indicators (metrics) aggregated to measure something complex (biological integrity, watershed health)



Three Categories of Indicators

Watershed Condition Indicators

Stream
Health
Indicators

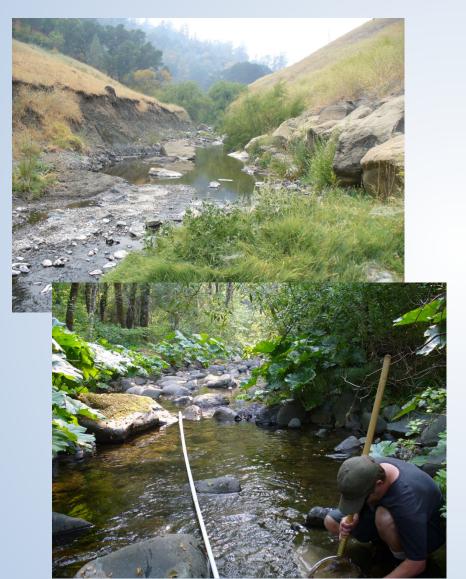
Watershed Vulnerability Indicators

Watershed Condition Indicators

- Structural components of watershed condition, landscape condition
- Geospatial datasets,
 based on remote sensing
- Examples: land use, soils
- Continuous and complete coverage across the state



Stream Health Indicators



- Characterize instream conditions
- Field monitoring datasets
- Examples: water quality and habitat measurements
- Many watersheds throughout the state have not been monitored
- Statistical models were developed to predict values in unmonitored locations

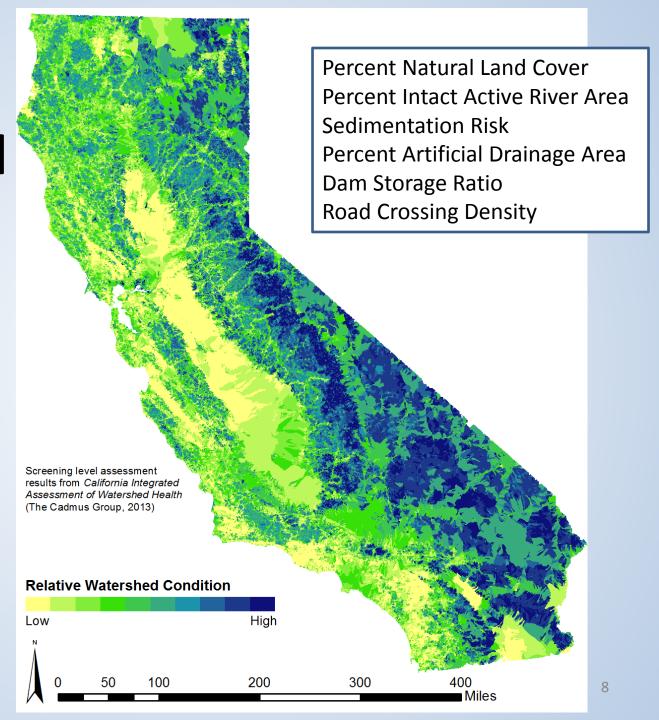
Watershed Vulnerability Indicators

- Characterize
 potential
 exposure to
 future risks e.g.
 climate change,
 fire.
- Modeled projections, continuous coverage across state.

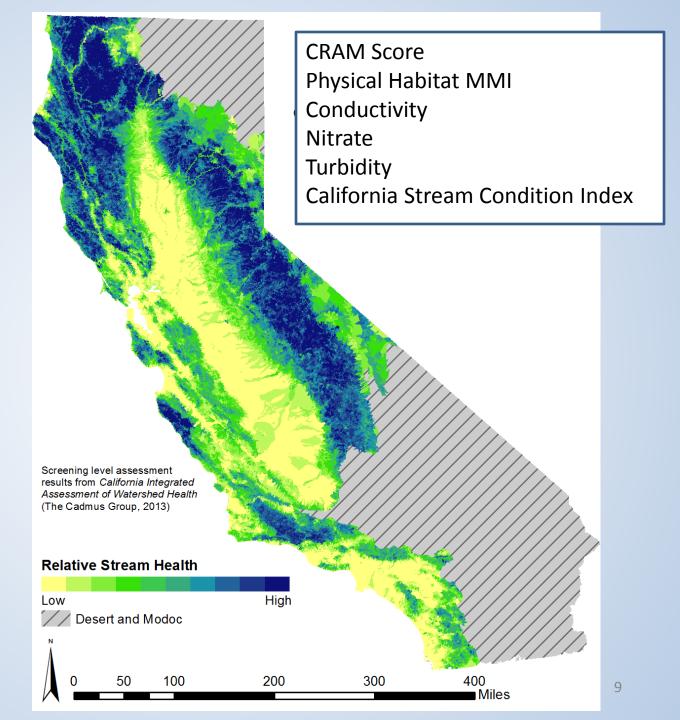




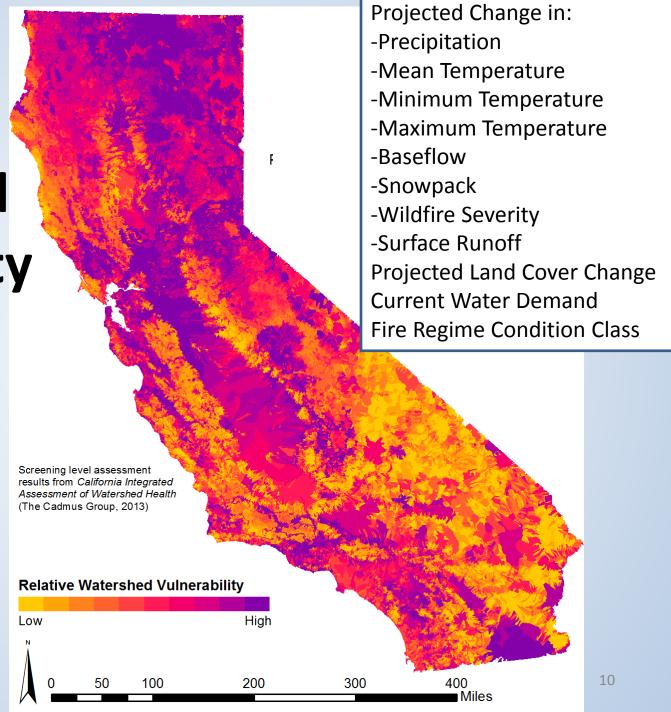
Relative Watershed Condition Index



Relative Stream Health Index



Relative
Watershed
Vulnerability
Index

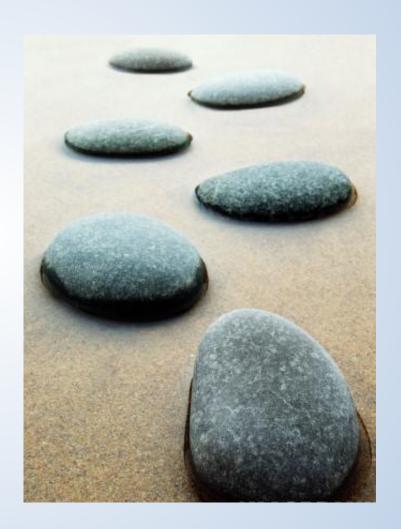


Next Steps

HSP meeting on 1/16/14. Discussion included:

- Display assessment results on Healthy Streams Portal
- Integrate with EcoAtlas
- Building on assessment framework (incorporating new indicators, thresholds)
- Coordinate with other workgroups (CWMW) and programs (NPS, forestry)

Input from Council members welcome



Healthy Streams Partnership

http://www.mywaterquality.ca.gov/monitoring council/healthy streams/

Healthy Streams Portal

http://www.mywaterquality.ca.gov/eco health/streams/

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