

Our Groundwater Resources in Napa County

Monitoring for Sustainability



A Tradition of Stewardship
A Commitment to Service

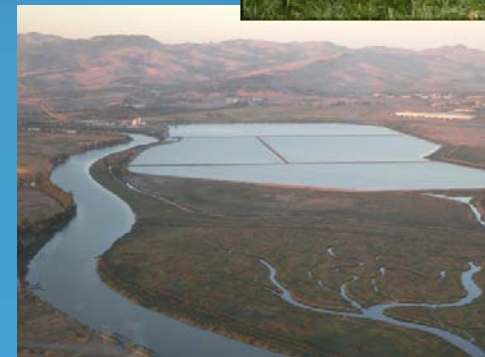
Workshop Presentation
March 2014

www.countyofnapa.org/bos/grac



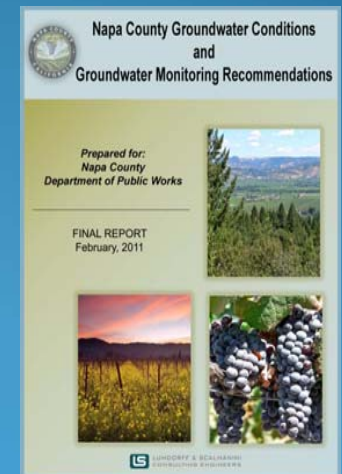
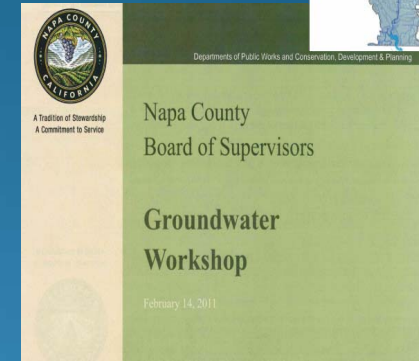
Overview

- Background
- What We Know
- Importance of Groundwater (GW)
- What We're Trying to Learn
- Voluntary GW Monitoring Program
- Groundwater Resources Advisory Committee (GRAC)
- Next Steps
- Education & Outreach
- Sustainability



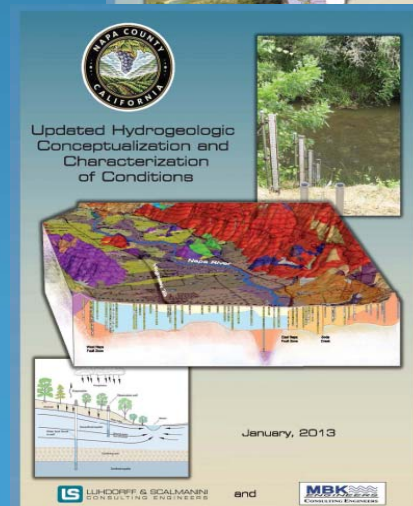
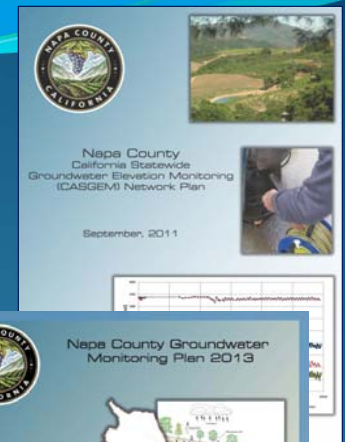
Napa County Groundwater Workshop 2011

- Comprehensive Groundwater Resources Study to meet General Plan goals/actions (2009)
- BOS GW Workshop - February 14, 2011
 - Napa County GW Conditions & GW Monitoring Recommendations (LSCE Feb. 2011)
 - Assessment of the Feasibility of a Collaborative GW Data Gathering Effort in Napa County (CCP/CSUS Aug. 2010)
- Groundwater Resources Advisory Committee
 - Both studies identified need for collaborative data gathering and community advisory committee to guide effort
 - GRA Committee appointed by BOS on Sept. 20, 2011



Working to Improve Our Understanding of Groundwater

- Groundwater Monitoring Plan (Jan 2013) and CASGEM Plan (Sept 2011)
 - Addressing Long-term Monitoring Needs
- Updated Hydrogeologic Conceptualization & Characterization of Conditions (Jan 2013)
 - Report Addressing GW Data Gaps
- Groundwater Data Management and Disclosure Guidance Document (Jan 2013)



Groundwater: *What we know*

Napa County and other public agencies have been monitoring groundwater resources since mid-1900's

Groundwater Levels

- The Napa Valley Floor shows stable long-term trends and shallow depth to water

Milliken, Sarco & Tulucay (MST) creek watersheds

- Northern MST shows historical declines but it has stabilized in last 30 years
- Central MST shows long-term declines, increasing since 1990 with recent stabilizing
- Southern MST is historically stable with shallow depth to water, some decline in mid-1990's to mid-2000's with recent stabilizing



Groundwater: *What we know*



Groundwater Quality

- Quality generally good on Napa Valley Floor
- Higher levels of salt and other constituents in northern Napa Valley Floor/Calistoga
- Salts, iron and other constituents are higher in southern Napa Valley Floor



Groundwater Recharge

- Most recharge occurs in the Napa River watershed
- Almost 43% of the watershed has geology/soils with the greatest potential for recharge

Importance of Groundwater in Napa County



Vital source of water supply

- Relied upon by: residents, businesses, agriculture, fish, wildlife, and the natural environments
- Used for drinking, irrigation, the environment, others

These and other water demands make it essential that we:

- Preserve GW quality and availability for the long term
- Be able to meet water needs during drought conditions
- Prevent potential negative environmental effects due to groundwater use

What Are We Trying to Learn about Groundwater?



- How does GW move through our aquifer?
- What is the overall status of our aquifers in Napa County?
- What are the groundwater conditions & trends?
- How do groundwater and surface water connect?
- Questions led to development of the Groundwater Monitoring Program

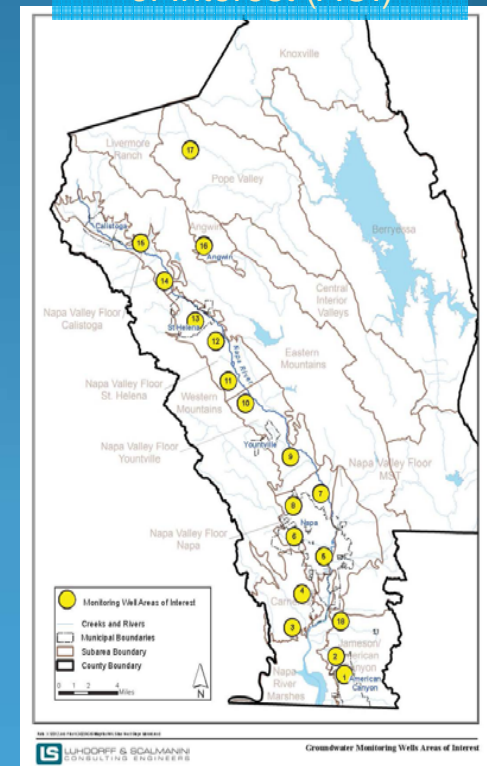


Voluntary Groundwater Monitoring Program

- Expands voluntary monitoring well network to help answer remaining questions
- Supports County water resources goals
- Addresses identified data needs
- Coordinates data collection with State/Federal agencies
- Incorporates data into a locally maintained system



GW Monitoring Areas of Interest (AOI)



Napa County Groundwater Monitoring Plan 2013

4 GW Basins/2 Sub-Basins(DWR)

17 GW Subareas Countywide

- Napa Valley Floor includes 5 Subareas

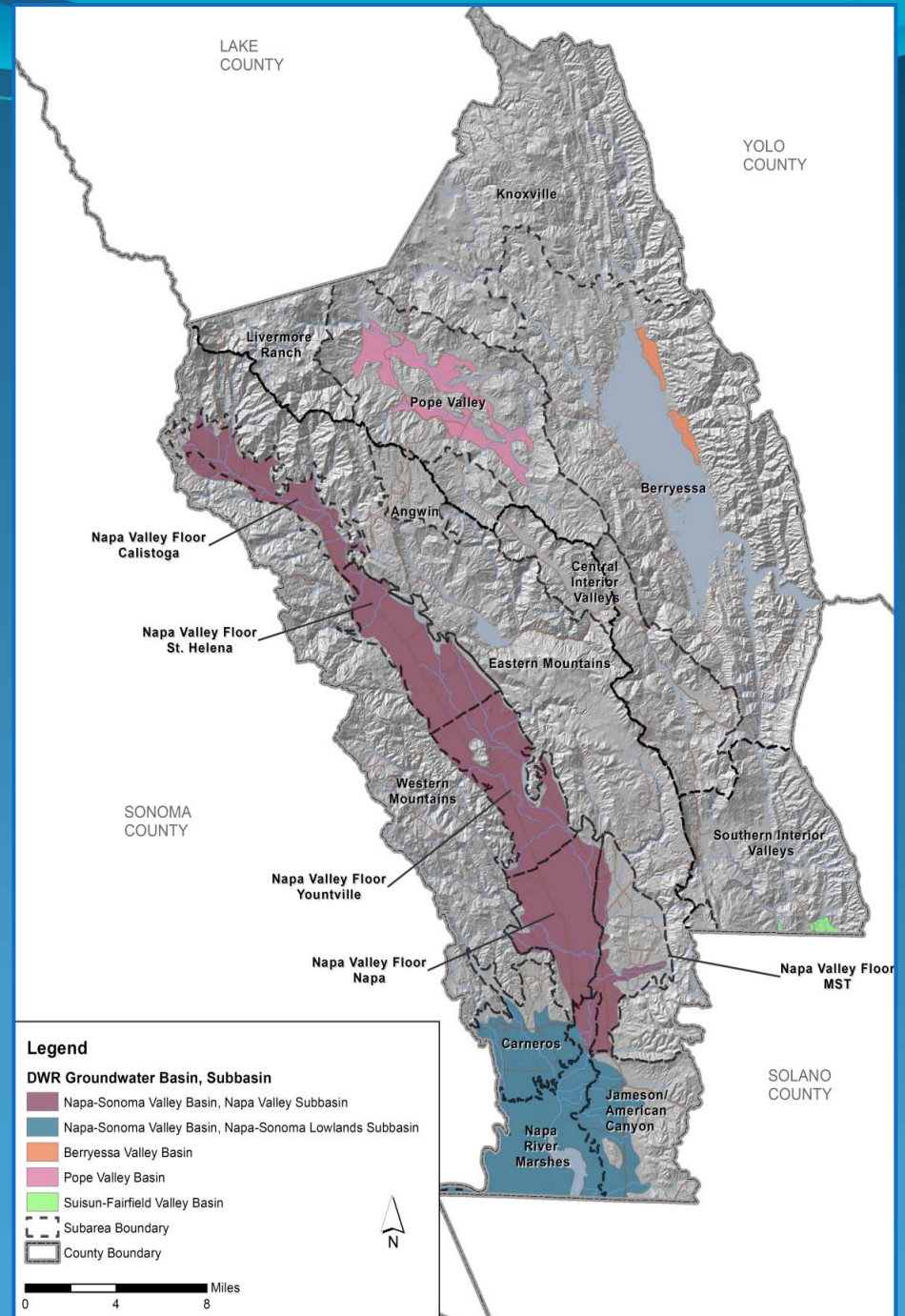
7 GW Level & Quality Priority Subareas

18 GW Monitoring Areas of Interest (AOI)



4 Groundwater Basins/
2 Sub-Basins (DWR)

17 Groundwater Subareas
Countywide












7 GW Priority Subareas

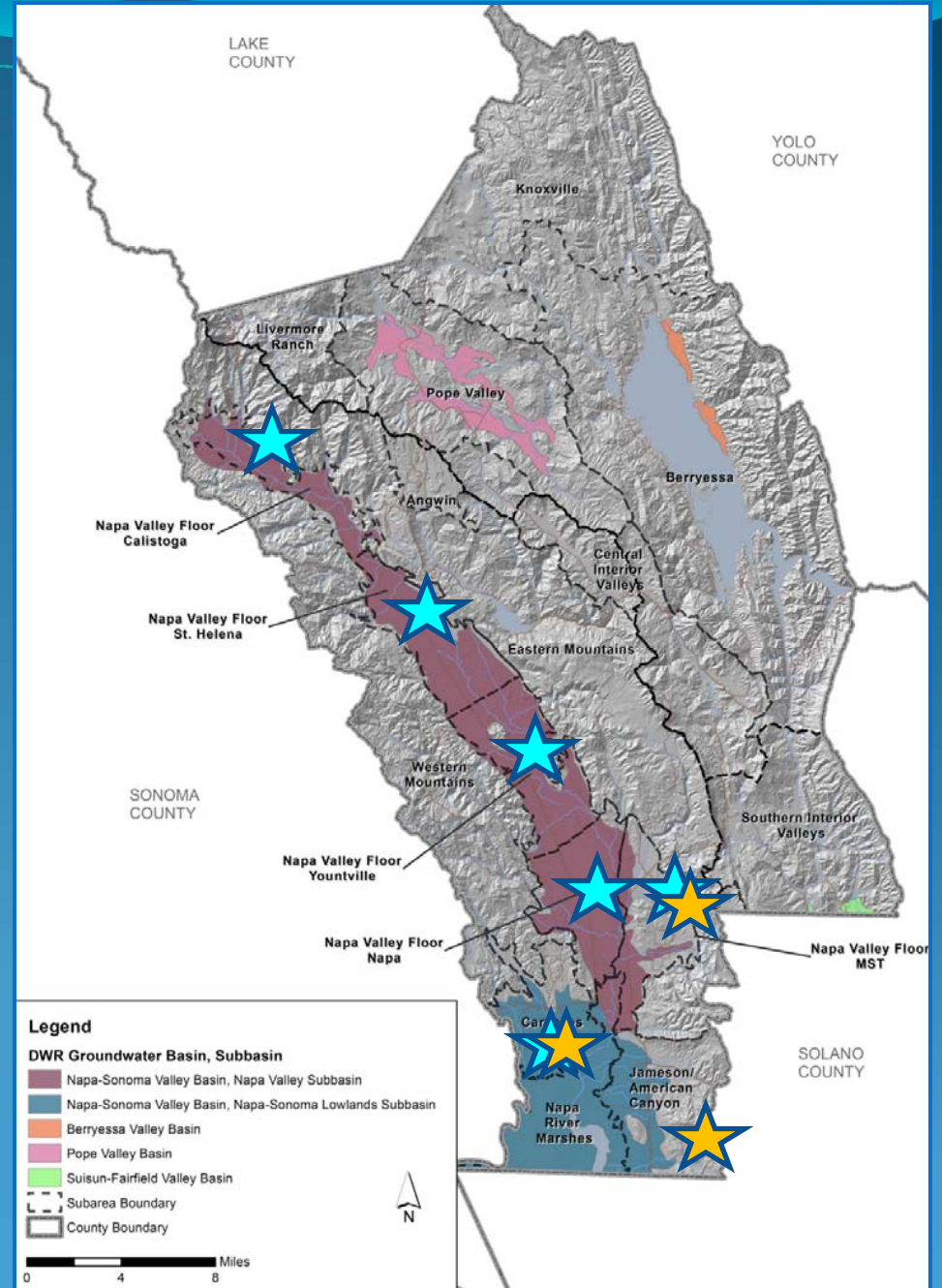
GW Levels



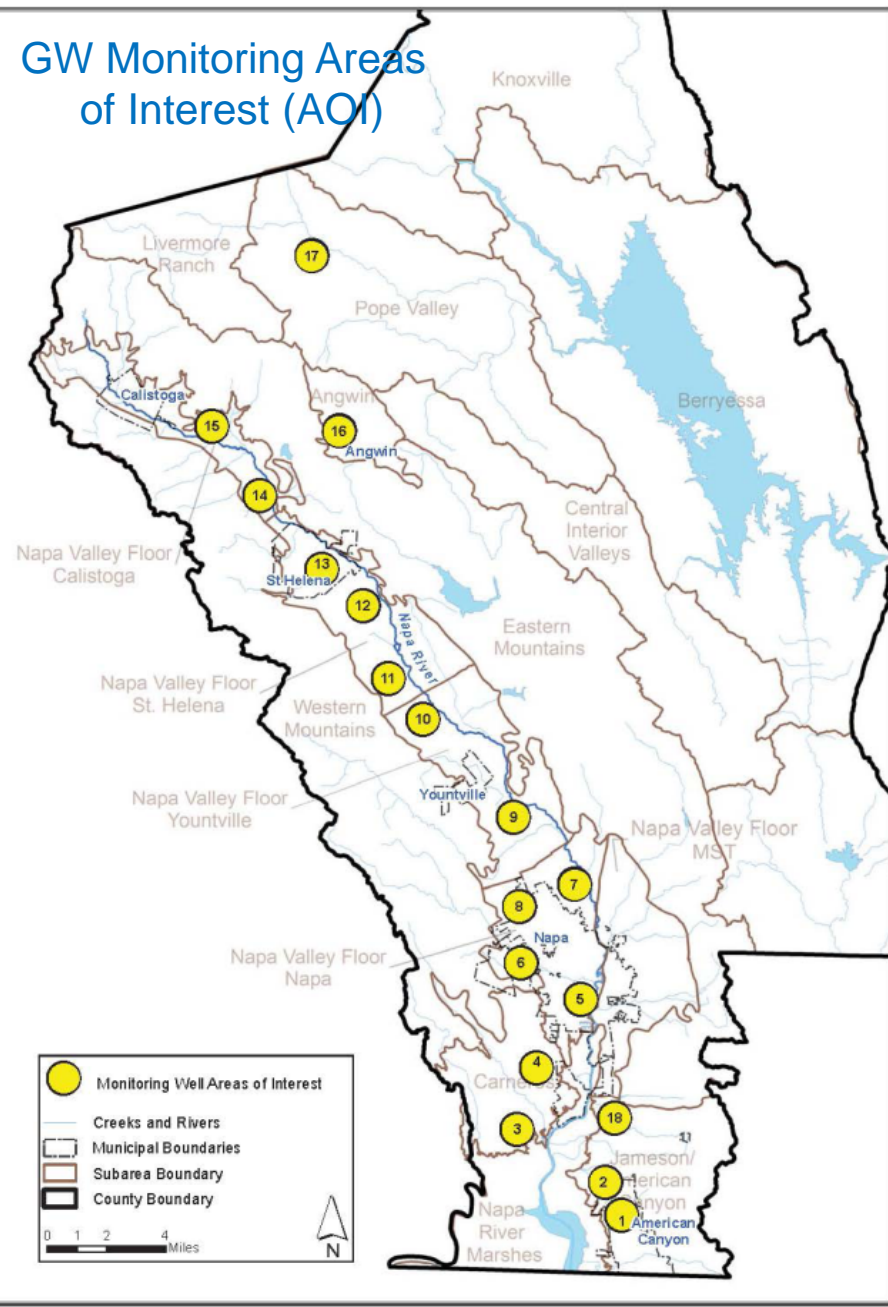
GW Quality



- Calistoga 
- St. Helena 
- Yountville 
- Napa 
- MST  
- Carneros  
- Jameson/
American Cyn 



18 GW Monitoring Areas of Interest



Groundwater Resources Advisory Committee (GRAC)

- Advisory Committee to Board of Supervisors created in 2011 - 15 Members
- Diverse community representation
 - Farming/Agriculture Industry
 - Environmental Interest Groups
 - Business/Wine Industry
- Purpose is to assist County staff and technical consultants with GW recommendations



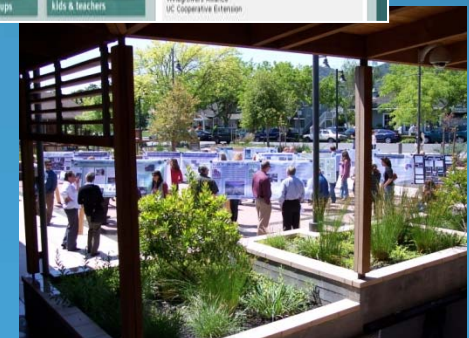
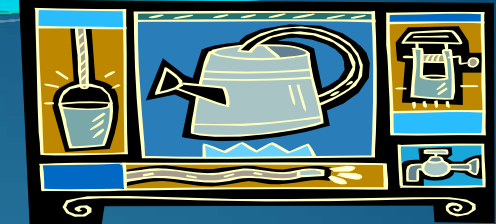
Next Steps....



- Final Report to the Board of Supervisors on GRAC's Conclusions & Recommendations (April 2014)
- Public Outreach & Education through RCD and WICC
- Expanded Groundwater Monitoring Program to insure long-term sustainability (General Plan goal)

Education & Outreach

- Ag Industry, Environmental, others
- GRAC- WICC Board **Joint Meetings**
 - Hosting Public Meetings/Forums
- Participation in Community Events
 - Earthday, River Fest, others
- Public Speaking
 - Organizations, Groups, others...
- WICC **Watershed Symposium**



Groundwater Sustainability

- Ongoing monitoring of groundwater conditions to ensure stable long-term supply
- Build partnerships and expand collaborative efforts to improve supply reliability, protect water quality, and sustain habitats
- Seek funding to further our understanding of surface and groundwater resources conditions and trends

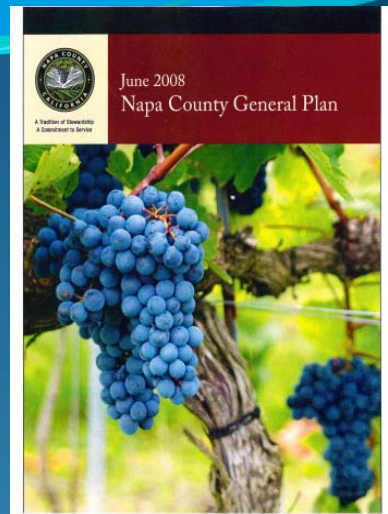


Groundwater Sustainability

GW Monitoring Program and GRAC Efforts Consistent with Napa County General Plan

Water Resources Goals/Actions

- **Goal CON- 12:** Collect information about status of Surface and Groundwater resources for improved forecasting of supplies and effective management
 - **Action Item CON WR- 4:** Implement a countywide watershed monitoring program to assess health of County's watersheds
 - **Action Item CON WR- 8:** Monitor Surface and Groundwater interrelationships using County-owned wells and stream and precipitation gauges, data from private property owners on a voluntary basis, data via conditions of land-use approvals, data from DWR and other agencies/organizations





A Tradition of Stewardship
A Commitment to Service



For Additional Information:

GRAC Website: www.countyofnapa.org/bos/grac

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The screenshot shows the Napa County website with the following content:

- Navigation:** Home | County Contacts | Stay Connected | Departments | Test Only | Search | Login
- Info for:** RESIDENTS | BUSINESSES | VISITORS | Government | Services | Emergencies | Napa County
- Header:** WE ARE NAPA COUNTY GROUNDWATER RESOURCES ADVISORY COMMITTEE ADVISORY COMMITTEE TO THE BOARD OF SUPERVISORS
- CONTACTUS:**
 - Patrick Lowe, Natural Resources Program Manager, Ph: (707) 259-8600, FAX: (707) 259-8619, EMAIL: pat@5.com, [More Information | Map](#)
- Groundwater Resources Advisory Committee Meeting synopsis: Feb 28, 2013**

The Napa County Groundwater Resources Advisory Committee (GRAC) held its tenth meeting on Feb. 28, 2013. Ms. Vicki Kretzinger Grabert, Mr. Reid Bryson and Mr. Ken Utley, Lohdorff and Scalantini Consulting Engineers (LSC), presented the updated Hydrogeologic Conceptualization and Characterization of Conditions Report. The regional geology, surficial, structural and subsurface geology and the hydrogeology were discussed in detail to demonstrate the increased understanding of the geology and of the groundwater and surface water interaction in the county. Mr. Phil Miller, Napa County, presented the updated Groundwater Monitoring Data Management and Disclosure Guidance document and Mr. Jeffrey Sharp, Napa County, provided an update on data management efforts currently underway. The Committee unanimously approved the document.

To prepare for well owner outreach, Committee members organized themselves into provisional Volunteer Outreach Teams for the 18 areas of interest. The Committee will utilize teams based on more specific well area information. The Committee agreed to hold two or three briefings for groups that have common interests, and then host a meeting for the general public at a joint meeting of the GRAC and WCC Board on July 25, 2013. Mr. Steve Lederer and Mr. Patrick Lowe, Napa County, reviewed items proposed for inclusion in the presentation that Mr. Peter McCreas, the Committee Chair, will make to the Board of Supervisors on April 2, 2013. The outreach discussion will be continued at the next Committee meeting. The Committee's next meeting will be held on April 25, 2013.

Please see the links below for copies of the February 28, 2013, presentations and handouts.
- Future Meeting Information**

The next meeting of the GRAC will be April 25, 2013 at 2:00 p.m.
Agricultural Commissioner's Office/UCCCE Conference Room
1718 Soscol Avenue, Napa.

The meeting agenda and related materials can be found on this webpage roughly one week prior to the meeting date.
- Meeting agendas and materials**

Thank You

