



National Ground-Water Monitoring Network

Advisory Committee on Water Information—Subcommittee on Ground Water

Status of the National Ground-Water Monitoring Network, December 2016

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Presentation Outline

- Review of work to date
 - Funding
 - Projects
 - NDP
 - EDP
 - Network Status and growth
- 2017 competitive funding opportunity
 - Changes to Program Announcement
 - Spreading the word
- Next Steps



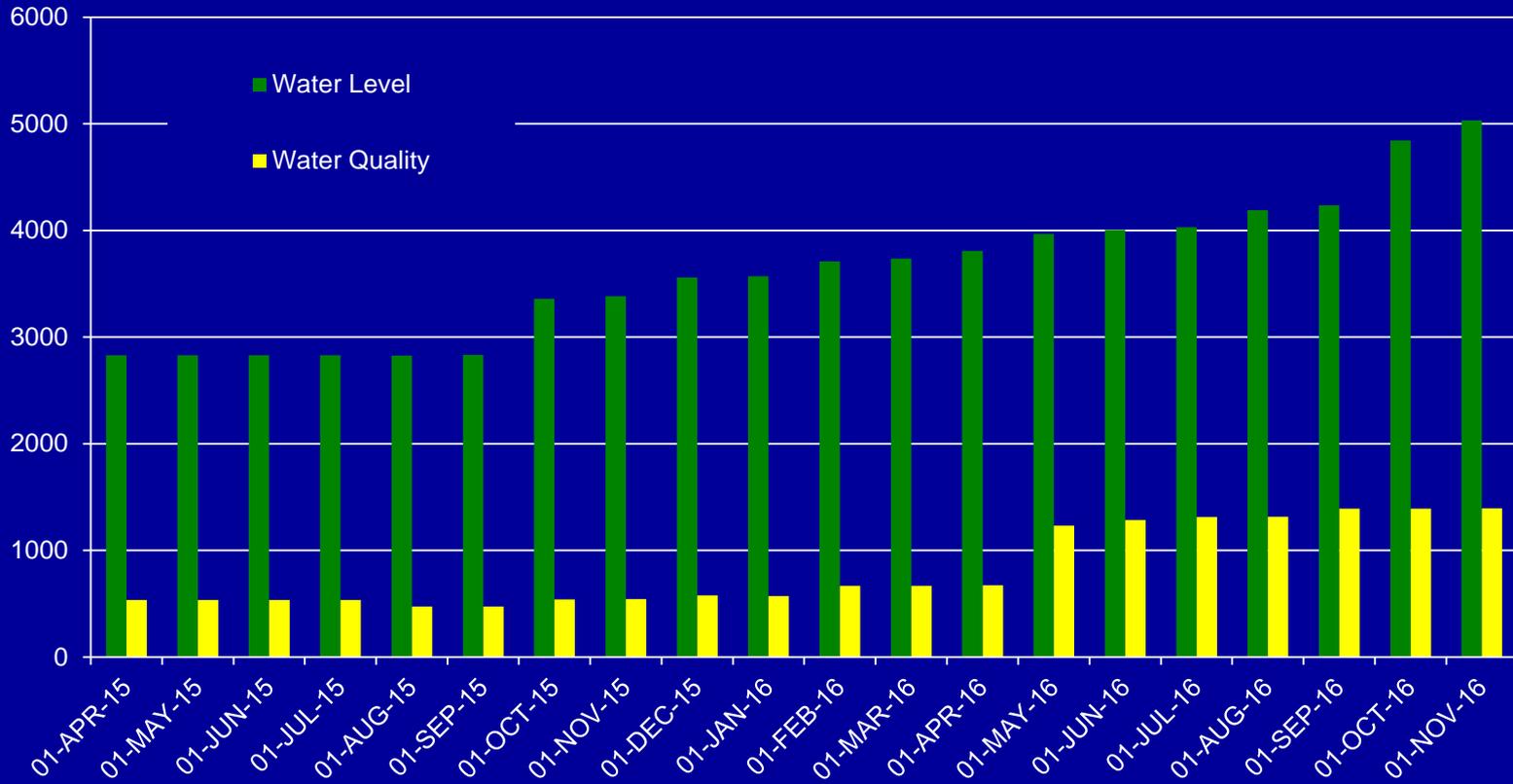
Data Providers

- Pilots
 - USGS, TX, MT, IL/IN,MN, UT (WQ)
- 2015
 - Pilots to complete work; TX, MT, IL, UT
 - New Provider; OR, NC, SC, DE, MS, KS, OK
- 2016
 - New Providers
 - AK, AZ, IN GS ,ME, MN PCA, NE, NH, WA
 - Ongoing support
 - AK, DE, IL, KS, MA, MT, OK, SC, TX, UT
 - Cooperative Water Program Data Providers
 - MA, MO, WI

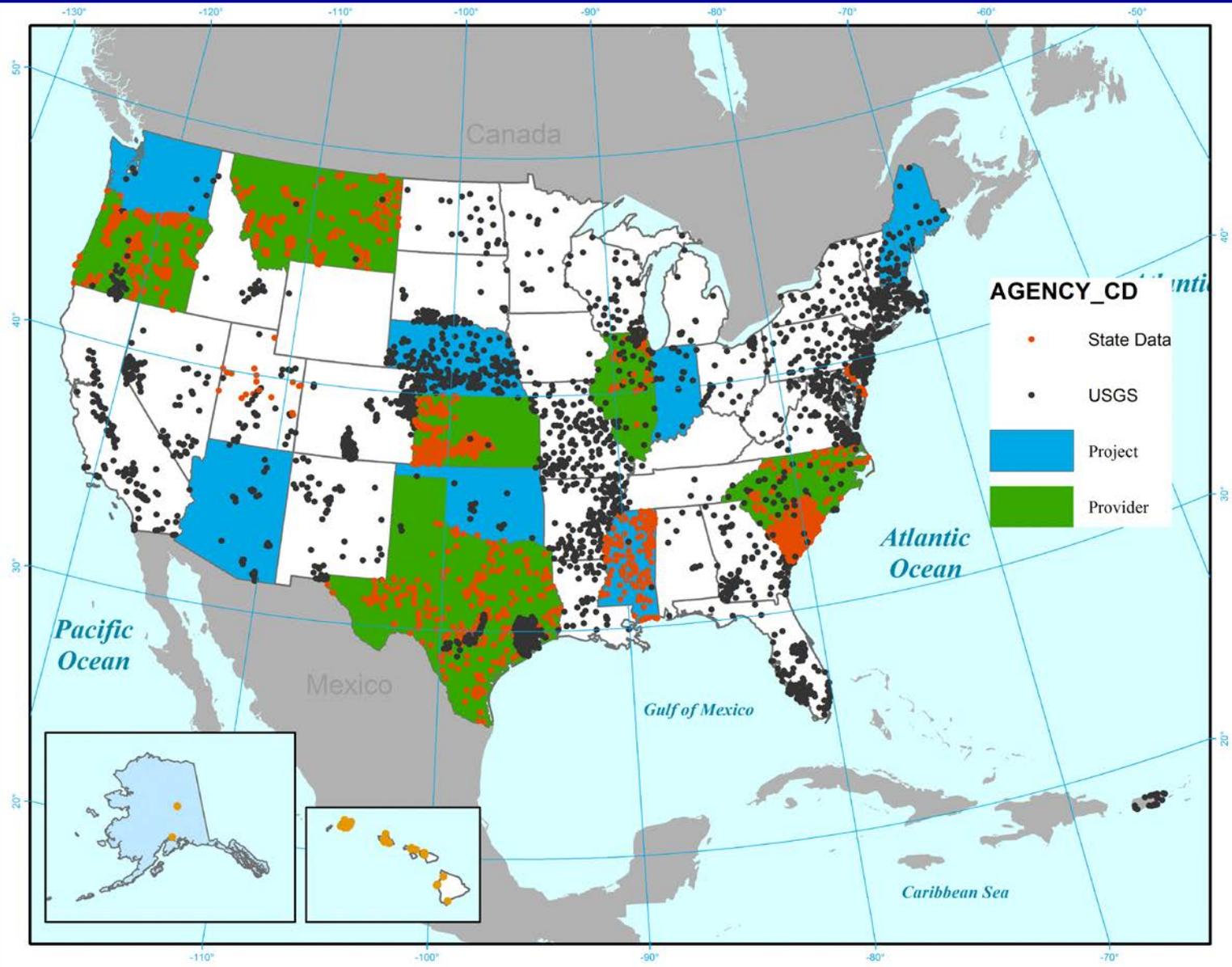
Data Providers

- Data providers are the key to the success of the NGWMN
- Benefits of participating as a data provider
 - Consistent data for shared interstate GW resources
 - Identification of ‘gaps’
 - Opportunity for review of field and data management procedures
 - “Community of Practice”
 - Data Portal provides tools to access data
 - Portal links back to Agencies website
 - Funding available to improve networks
 - Participation in National Network gives your network visibility
 - Participation may provide additional justification for monitoring
 - ???

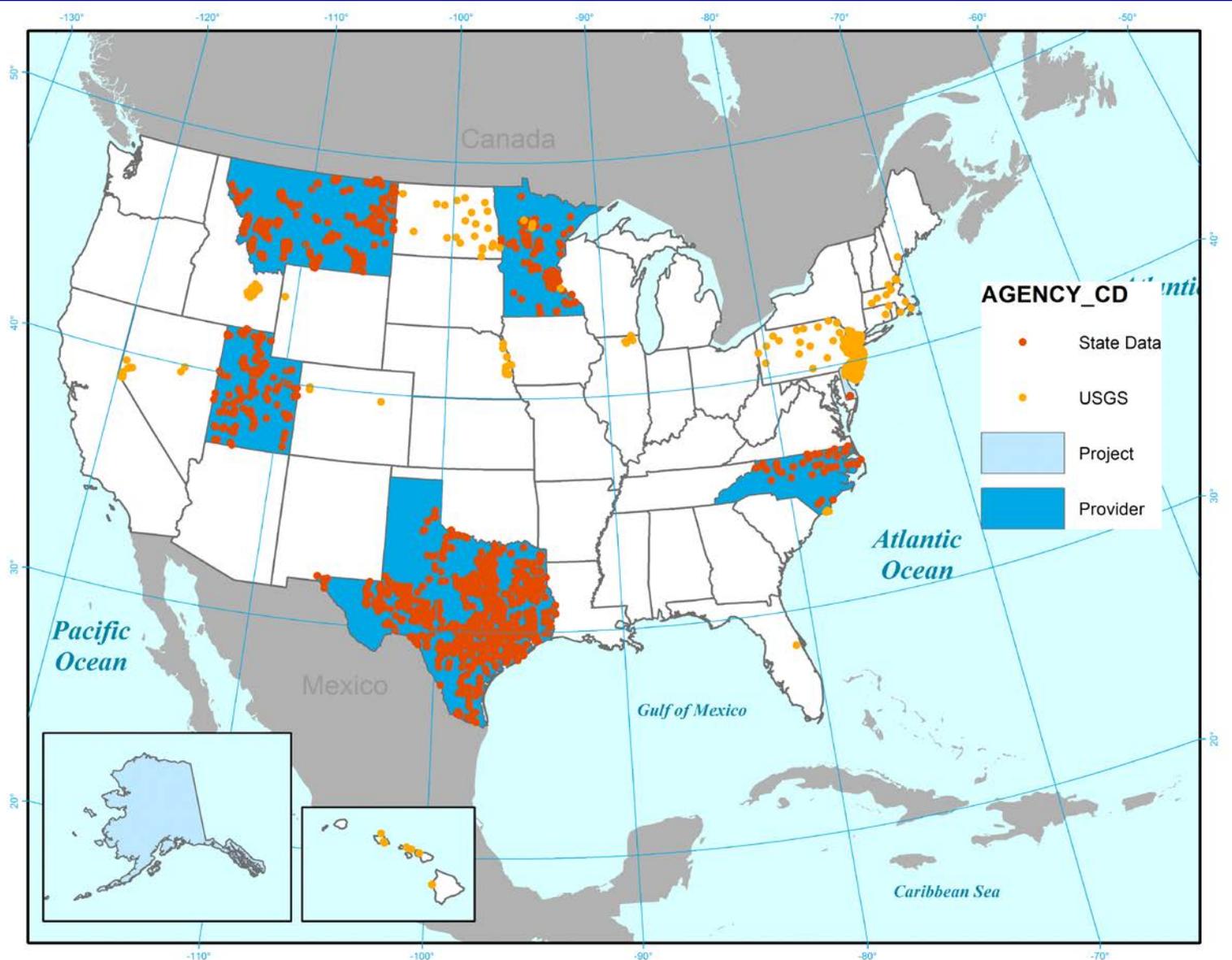
Growth of Network



Water-level network



Water-quality network



Competitive Funds Available in FY17

- Program Announcement opened on October 27th and closes on January 27th, 2017
- Final Webex session will be held on December 14th
- Funds for new data providers to:
 - Select wells/springs
 - Classify wells/springs
 - Establish database connection to NGWMN portal using web services
 - Document Field Techniques
- Funds for ongoing support to existing data providers
 - Fill site information gaps
 - Maintain sites
 - Drill wells
- Available to state or local water-resource agencies
- Will have opportunity to address questions on Wed pm

Changes in Program Announcement

- Listed work that cannot be supported
- Clarified that funding cannot be used to contract with the USGS or other Federal agencies
- Order of objectives changed
- Added links to 'Tip Sheets' throughout document
- Added section on cost-share guidelines
- New requirement for a Data-Management Plan (DMP)
- Do not include links to websites in your proposal
- Tables, Data Management Plan, and Negotiated rate agreement do not count towards 25 page limit
- Do not include links to documents as part of proposal (OK in DMP)

Changes in Program Announcement

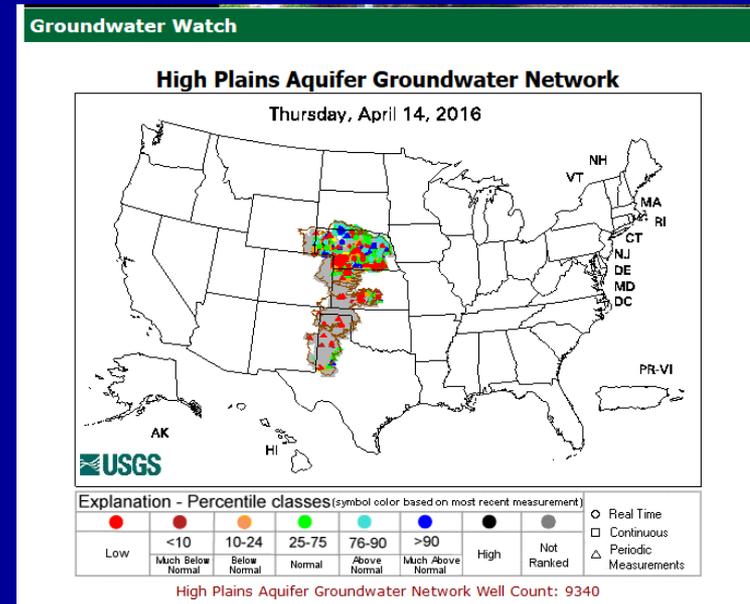
- Because of upcoming USGS work in the High Plains, Coastal Lowlands, California Coastal Basins, Colorado Plateaus, and the Cambrian-Ordovician aquifers, proposals with water-levels networks in these aquifers will be given priority
- The New Data Provider objective has been modified to support existing data providers if they need to perform these tasks. For example, adding a new service or selecting and classifying a large number of new sites

Data Management Plan

- There is a new Federal requirement to include a data management plan as part of any proposed work
- Two-page maximum. Does not count toward 25-page limit for proposal
- Elements of a Data Management Plan
 - Types of data
 - Data and Metadata standards
 - Policies for access and sharing
 - Policies and provisions for re-use, re-distribution
 - Plans for archiving and preservation of access
- Types of data that need to be included
 - Water-level or water-quality data collected by the agency and provided to the NGWMN.
 - Other data collected as part of NGWMN Projects: Site information, well logs, slug tests, land-surface altitude, and latitude/longitude are common types.
 - Historic water-level or water-quality data collect by the agency that will be entered into agency databases so that it is available to the NGWMN.
- Examples available on 'Cooperative agreements' page

Next steps

- Continue adding data providers
- Evaluate data we have available
- Begin developing capability to display water-level status on Portal
 - Display current status
 - Display water-level changes
- Community of Practice
- More continuous data
- Non-network data
- Data Provider Pages
- Backbone sites



Adding Data Providers

- Are aggressively seeking to fill 'empty spots' on the maps
- Have contacted many agencies that reported having a network
- Particularly having trouble finding water-quality networks that meet the criteria (trends through time)
- If you have contacts in other agencies in your state, counties, or at interstate agencies; please then know about the Network and give them my contact information

Community of Practice

- A goal of the NGWMN is to to develop a 'Community of Practice'
- NGWMN participation provides opportunities for Data Providers to meet staff from other agencies/states that work on groundwater monitoring.
- Forum for Data Providers to discuss/share: techniques, equipment, quality assurance, use of data, reports, network design approaches, etc.

Data Provider Pages

- The NGWMN data portal is intended to provide data of 'known quality' to evaluate groundwater resources
- Not every data provider collects data in the same manner
- As part of your data provider project report, we have asked providers to document their data collection and data management techniques
- These will be available on a 'Data Provider' page on the portal
- SOGW working group met to discuss this on Monday. Are beginning to develop approach. Report later this am
- Hope to have this in the next 6 months

Evaluate Network

- Now that we are getting more sites and more data want to start looking at the data we have and identifying gaps
- Will be a talk about this later this morning
- Tip sheets have suggested densities for water-level and water-quality Network 'Trend' sites
- From this have developed a 'suggested density' of Trend sites for water-level networks by State and Principal Aquifer. Are working on suggested density for water-quality sites (Trend or Surveillance?)

Subcommittee on Ground-Water Activities

- Held meeting on Monday.
- Mainly consisted of three breakout sessions covering 8 topics
- Will hear reports from these breakout sessions later this morning