



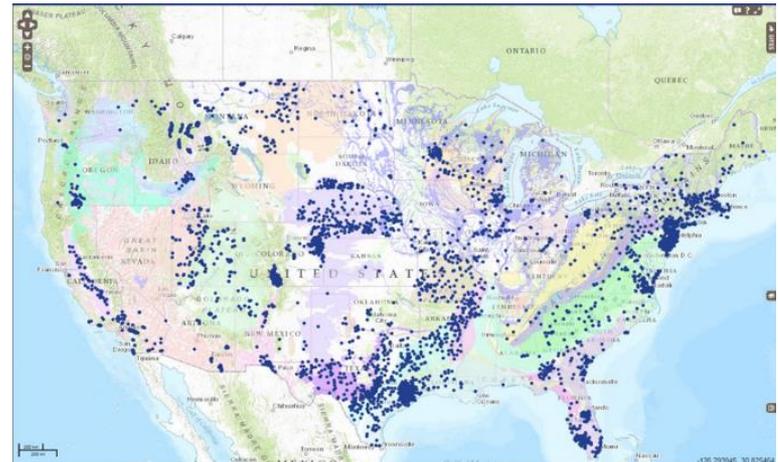
National Ground-Water Monitoring Network

Advisory Committee on Water Information—Subcommittee on Ground Water

USGS Report: National Ground Water Monitoring Network

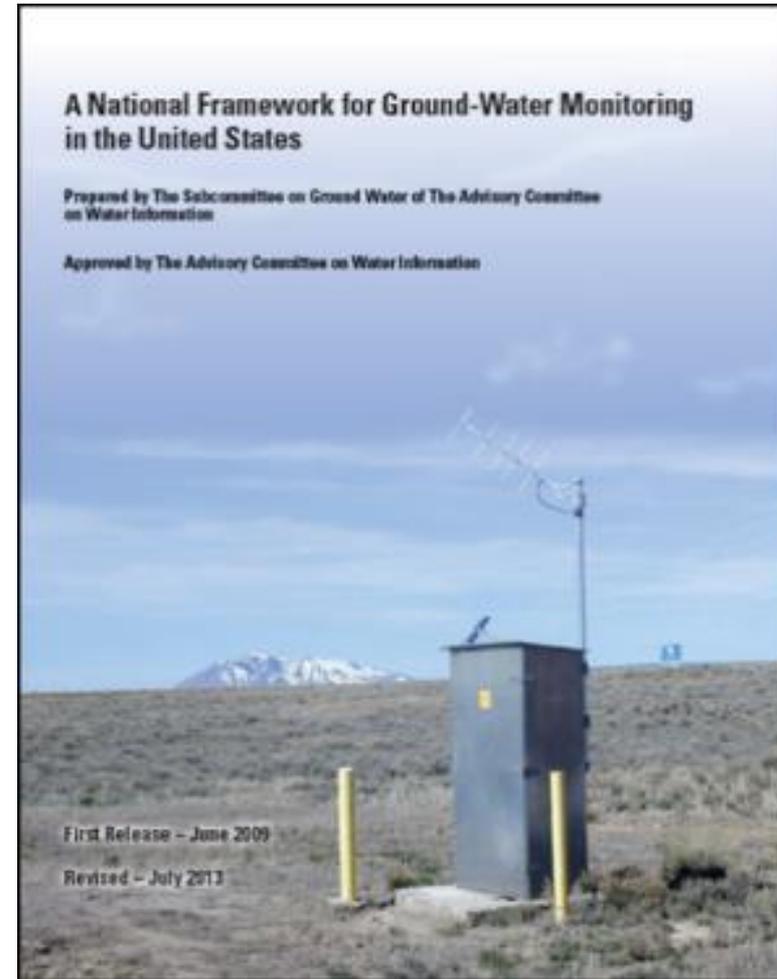
*Meeting of Subcommittee on Ground Water and
NGWMN Data Providers
December 5, 2016
Las Vegas, NV*

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Presentation Outline

- ACWI, SOGW, and FACA's
- History of SECURE Water Act
- Review of Framework
- Review of USGS Water Mission Area Programs
- GWSIP: Distribution of USGS groundwater monitoring funds



ACWI, SOGW, and FACCA's

- Federal Advisory Committee Act
 - Open, public process.
- Advisory Committee on Water Information
 - Advise federal agencies with “water” responsibilities. USGS is the lead, but other Feds also.
- Subcommittee on Ground Water
 - Develop NGWMN plan. Help oversee implementation.

SECURE Water Act

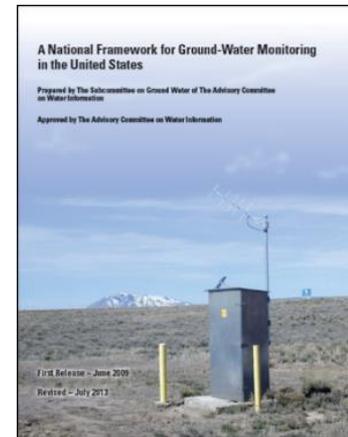
- 2007 – visit to Capitol Hill
- 2008 – NGWA testimony
- Public Law 111-11: “Omnibus Public Land Management Act of 2009” (March 30, 2009)
- Section 9507: Water Data Enhancement by the USGS
 - National Streamflow Information Program
 - National Groundwater Resources Monitoring
 - Authorized thru 2023
- Section 9508: National Water Availability and Use Assessment Program

SECURE Water Act

- National Groundwater Resources Monitoring
 - The Secretary shall develop a systematic gw monitoring network for each major aquifer system in the US. The Secretary also:
 - shall establish appropriate criteria to ensure the acquisition of long-term, high-quality data.....
 - Shall work with ACWI to (a) assess scope of existing monitoring, (b) develop a monitoring plan.
 - Shall consult and coordinate with state agency with jurisdiction over the monitored aquifer
 - In carrying out these activities, the Secretary shall
 - Provide that the data improve understanding of GW/SW interaction
 - Expand the CRN into each climate division to improve understand the effects of global climate change on gw recharge and availability
 - Provide for 100% Federal share; or if collaborative, shall give priority to State and local agencies that provides a substantial share of the cost of monitoring.

Framework Review

- Recommends multiple funding approaches for the NGWMN
 - Existing Federal Programs
 - USGS Cooperative Water Program (now CMF – more later)
 - Federal monitoring via USGS and others
 - Create a “STATEMAP-like” program for state agencies collecting long-term gw level and gw quality data.
 - STATEMAP = proposal-driven USGS program that funds state Geological Surveys to develop geologic maps
 - New geologic mapping funds coming to USGS generally divided equally between state proposal process and USGS federal mapping.



USGS Water Mission Area

Programs

- Federal Programs are the Congressional funding source for USGS
- Water Mission Area programs change over time. Major re-structuring in 2016
 - 7 Programs into 4.
 - Water Quality, Non-WQ Data, and Non-WQ Science
 - GWRP divided into 2
 - Cooperative Water Program divided among 3
- New Water Mission Area Programs
 - GWSIP, WAUSP, and NWQP
 - CWP now CMF within GWSIP, WAUSP, and NWQP

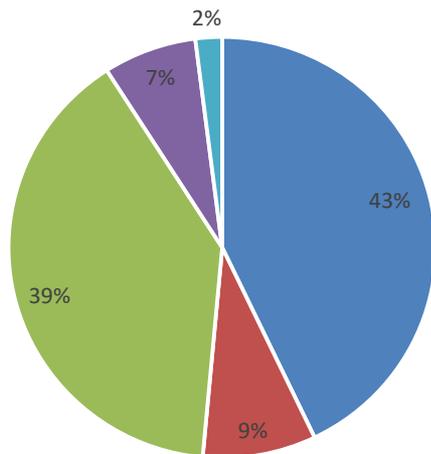
GWSIP: Distribution of GW Monitoring Funds

- GWSIP Groundwater Level Monitoring
 - “CMF” monitoring networks
 - NGWMN
 - Cooperative Agreements with Data Providers
 - Includes water quality
 - Climate Response Network
- NWQP Groundwater Quality Monitoring
 - “CMF” monitoring networks
 - NAWQA project

Financial Report:

2016 NGWMN Budget

All Funds
Budgeted Distribution of Funds, by Activity
2016

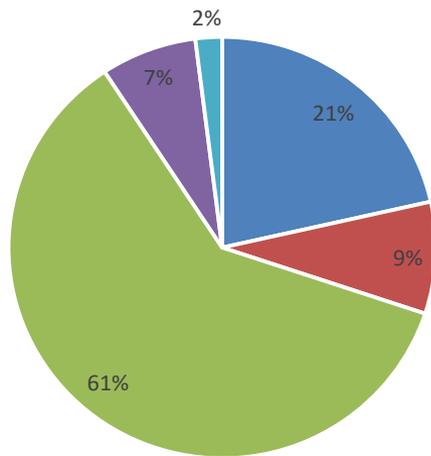


- Task 1: NGWMN Cooperative Agreements (external partners)
- Task 2: OWI Portal Management
- Task 3: CRN Implementation (funds to USGS Centers)
- Task 4: USGS Manager
- Task 5: SOGW Management

- Includes “New” funds of \$3.4M
- Includes redirected and re-programmed funds totaling ~\$4M.
- Half of “new” funds for NGWMN cooperative agreements (grants).
- USGS funds for
 - Climate Network
 - NGWMN Portal
 - NGWMN Manager

2016 NGWMN Actuals

All Funds
Actual Distribution of Funds, by Activity
2016

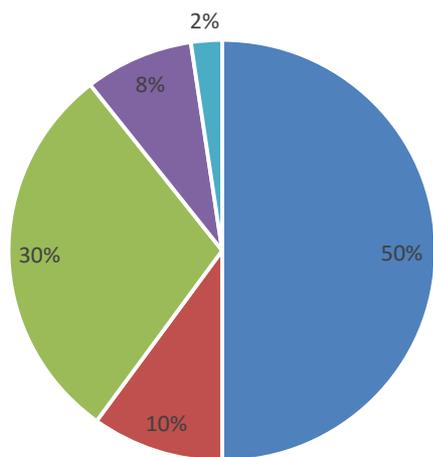


- Task 1: NGWMN Cooperative Agreements (external partners)
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- FY15 carry-over funds not included (Task 1)
- Unspent Task 1 FY16 funds could not be carried over.
- Unspent FY16 Task 1 funds re-directed to Program Announcement activities 3-5, USGS Water Science Centers

NGWMN Budget, "New" Funds

"New" Funds
Budgeted Distribution of Funds, by Activity
2016

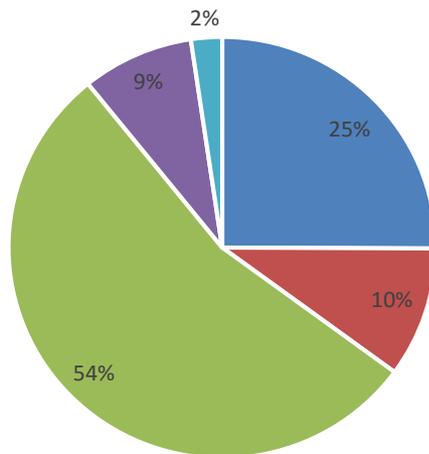


- Task 1: NGWMN Cooperative Agreements (external partners)
- Task 2: OWI Portal Management
- Task 3: "New" CRN Implementation (funds to USGS Centers)
- Task 4: USGS Manager
- Task 5: SOGW Management

- Task #1 (Cooperative Agreements) 50%
- USGS Climate network 30%
- Portal, Management, SOGW, Program Board 20%

NGWMN Actuals, "New" Funds

"New" Funds
Actual Distribution of Funds, by Activity
2016



- Task 1: NGWMN Cooperative Agreements (external partners)
- Task 2: OWI Portal Management
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- NGWMN Task #1 25%
- USGS Climate network (30%) and NGWMN activities (24%)
- Other categories unchanged