

# CRCPD Initiatives:

SCATR, Radiation Response Volunteer  
Development, and More



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Executive Director

# Conference of Radiation Control Program Directors, Inc. (CRCPD)

A Partnership Dedicated to Radiation Protection



# Then....



- Formed in 1968
- First meeting 1969
- FDA funding only for state assistance to implement P.L. 90-602 Performance Standards for X-Ray Equipment
- Four-member Board of Directors

## ...and Now

- 501(c)(3) Professional Organization
- Seven-Member Board of Directors
- Over 40 active working groups and 10 liaisons to other organizations
- 5 cooperative agreements with funding from federal agencies
- 4 contracts with federal agencies and other entities
- Other funding sources: Membership dues, donations and publications



# Current Initiatives of CRCPD



- SSRCR's
- Nationwide Evaluation of X-Ray Trends
- Source Collection and Threat Reduction Program (SCATR)
- Radiation Response Volunteer Development
- Environmental Data Sharing

# Suggested State Regulations

## Latest and Future Revisions

- **Under Peer Review**
  - Part F: Diagnostic X-Rays and Imaging Systems in the Healing Arts
  - Part H: Radiation Safety Requirements for Non-Medical Radiation Generating Devices
  - Part E: Radiation Safety Requirements for Industrial Radiographic Operations
  - Part V: Physical Protection of Byproduct Material
- **Sent for Final Federal Concurrence**
  - Part T: Transportation of Radioactive Materials
- **In Progress**
  - Parts AA and BB: Lasers and Tanning

# Source Collection and Threat Reduction (SCATR)

- Established through a cooperative agreement with DOE/NNSA in 2007; new 5-year grant in 2013
- To reduce the threat of commercial radioactive materials
  - Discrete sealed sources
  - In storage and/or unwanted
  - Could be abandoned or diverted for misuse

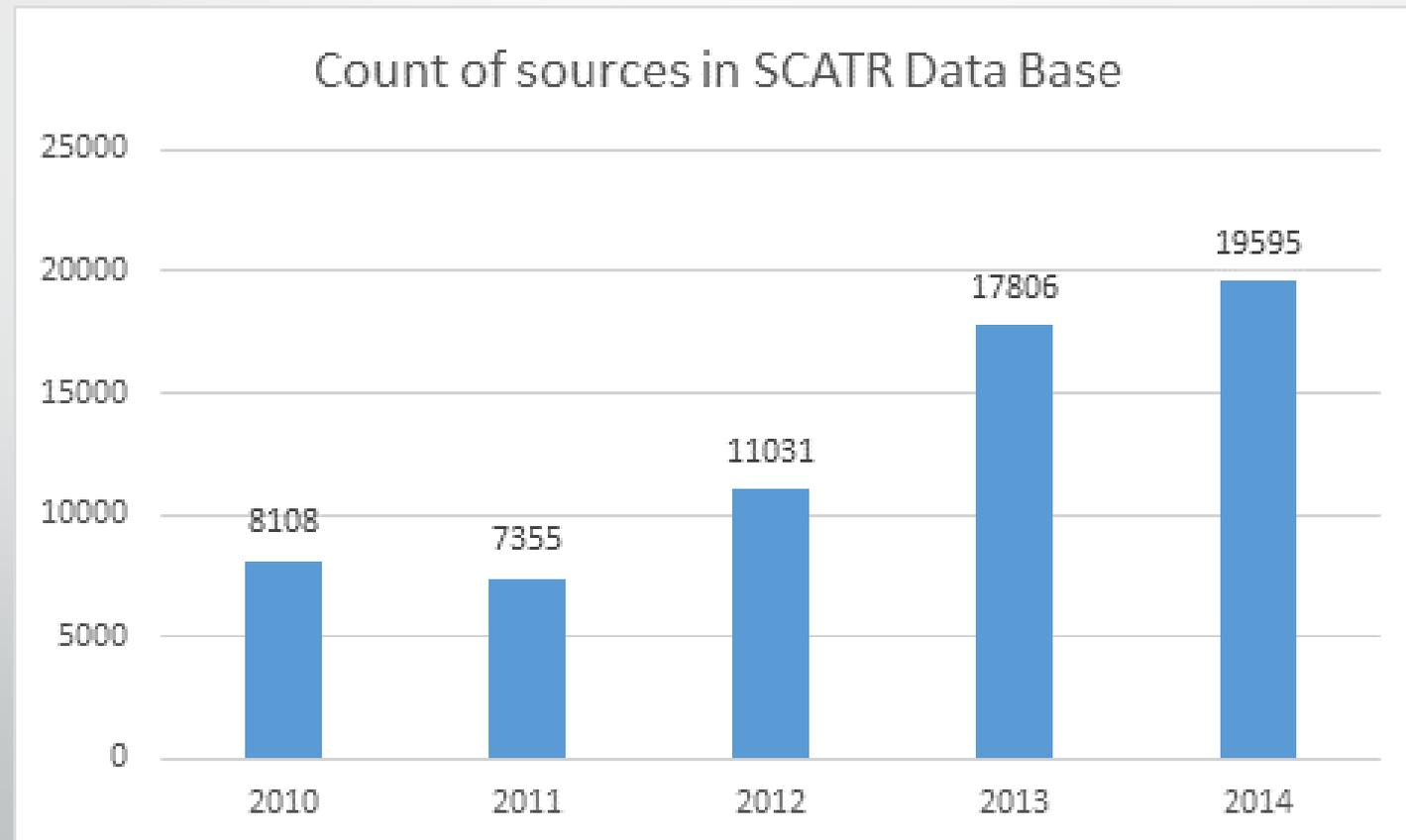
# National Source Disposition Program

- Ensure appropriate collection and disposition
  - Continue CRCPD National Orphan Source Program, “adoption agency,” and identification of low-cost disposition options (under NRC grant)
  - Work with States and LLW compacts to identify requirements and options
  - Disseminate lessons learned through conferences, journals, etc.

# SCATR Program Tasks

- Outreach to user groups and industry
- Outreach to States and users/licensees
- Coordinate with Offsite Source Recovery Project at LANL to address all situations and collect data
- Prioritize collection campaigns

# GTRI's SCATR Data Base



# Sources Disposed To Date

Project Name	No. Sources	Activity (Ci)	Broker
Florida project	2569	14.68	Bionomics
Atlantic Compact 1	408	22.67	Bionomics
Eastern WA	213	8.9	Philotechnics
Brachy Collection	841	1.55	Ram Services
Western WA	182	23.97	Qal-Tech
Rocky Mtn 1	67	1.49	Qal-Tech
Oregon	219	14.87	EMC
Colorado	322	37.76	EMC
Rocky Mtn 2	49	0.93	Qal-Tech
Atlantic Compact 2	173	1.56	Qal-Tech
WCS disposal	142	0.668	Bionomics
Texas Disposal 2013	205	1.43	Bionomics
Class A Srcs- ES-BioES-1	874	0.074	Bionomics
Class BC Srcs in Class A	532	5.84	Bionomics
NW Compact/Radium (3 Facilities)	21	0.308	EMC
Class BC Srcs in Class A 2nd shipment Man #BW-05-14	590	5.97	Bionomics
<b>Total to date</b>	<b>7407</b>	<b>142.67</b>	

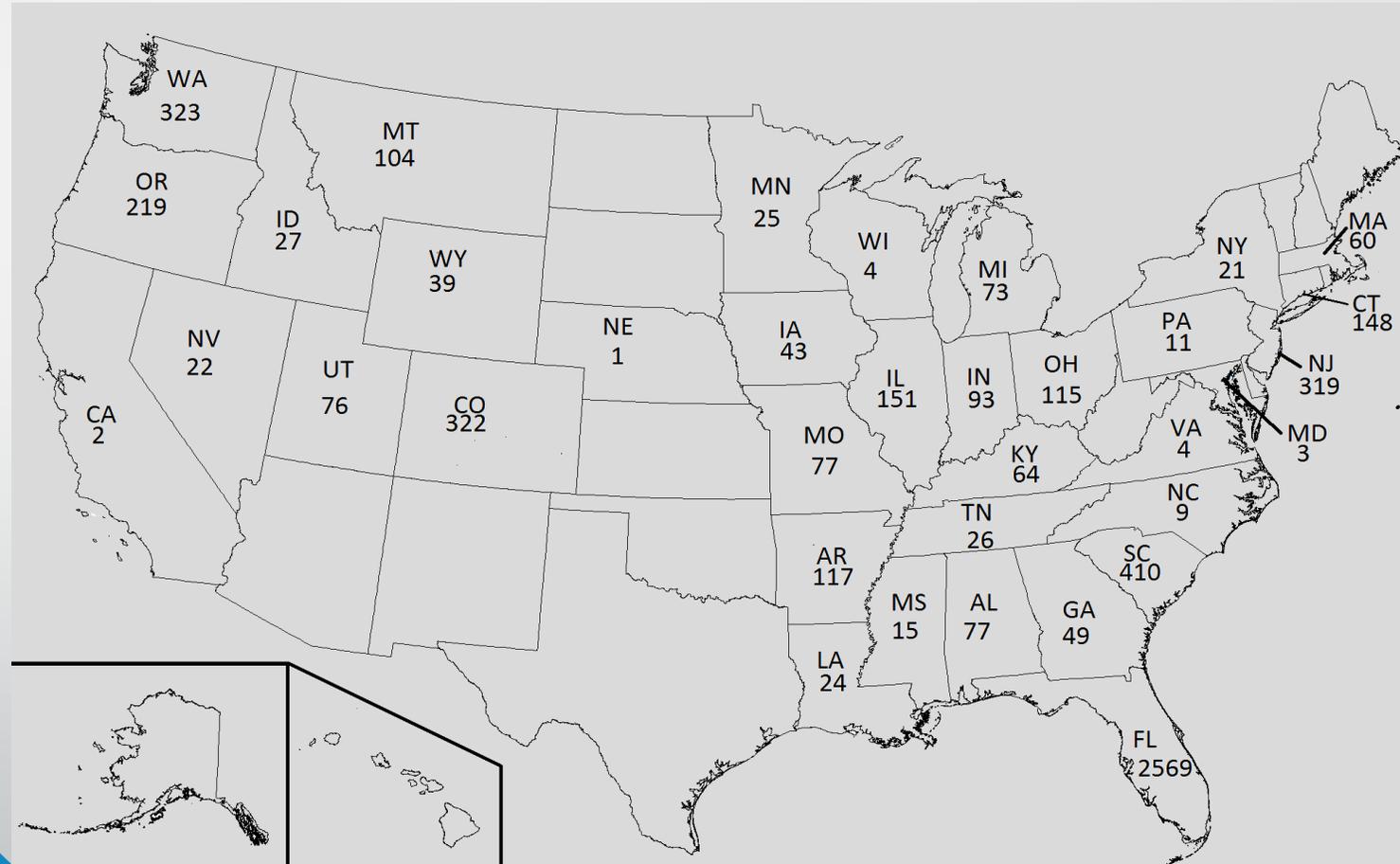
# Class A Collection

- One year variance granted at EnergySolutions Utah facility to accept Class A sealed sources
- Variance ends this month

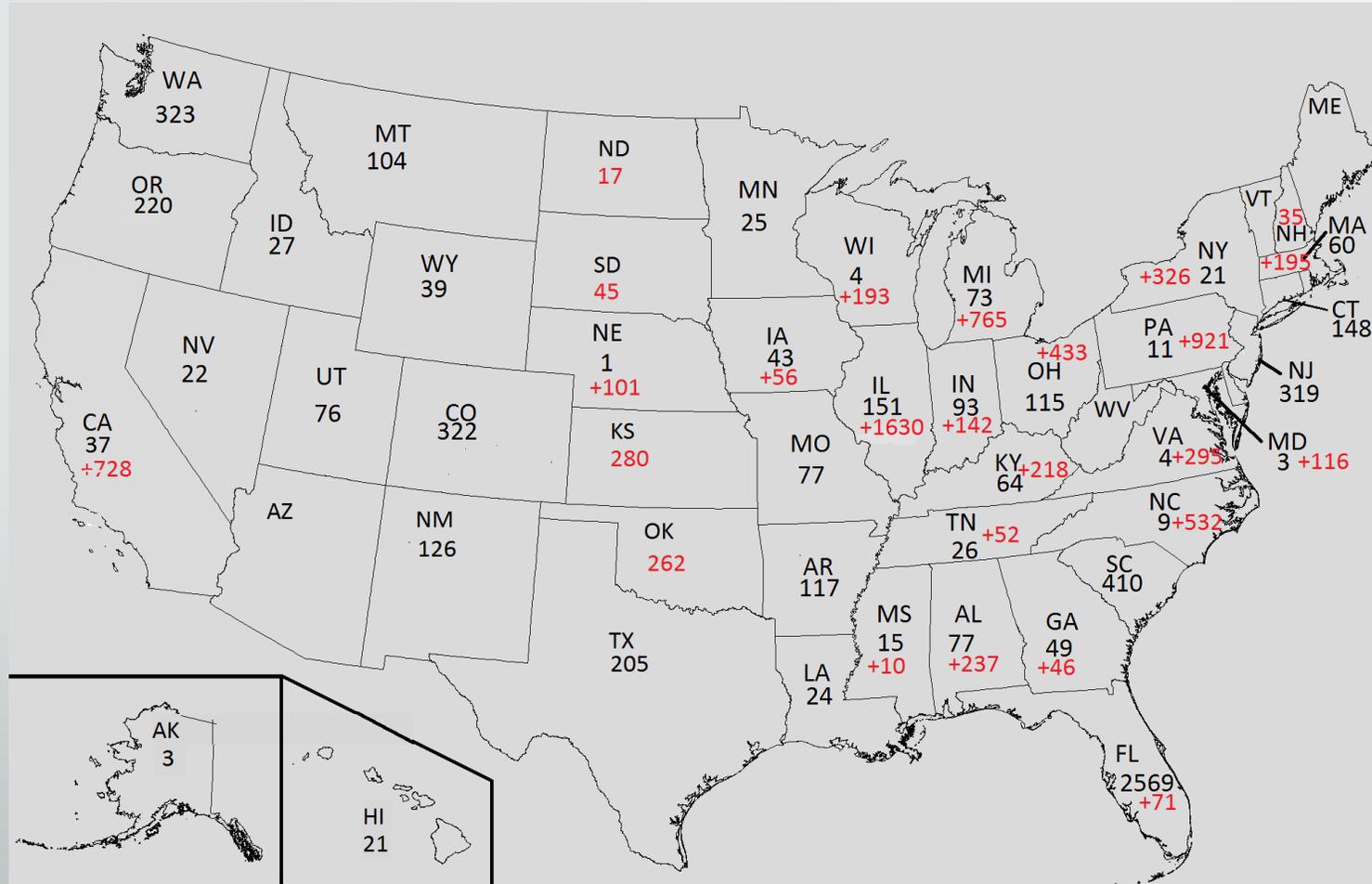
	Class A	Class B/C	Total
• Class A" sealed source collection to date	872	1060	1932
• Projected collection			7,000

- 147 facilities located in 21 states participated
- Additional 37,000 spent industrial radiography sources

# Where We Were Last Year



# Where We're Going.



# 2014-15 Collection

- Nationwide SCATR Collection: Provides 45% of costs of collection and commercial disposal of eligible sources
- Licensees in all 50 States and US territories are eligible
- Licensees located in States not included in the 2013-14 collection will receive additional cost-share benefits—this includes TEXAS!
- Currently registered sources with GTRI automatically considered



# How to Register Sources

Disused and unwanted sources must be registered with the Los Alamos National Laboratory (LANL) Off-Site Source Recovery Project (OSRP) to be considered for participation in SCATR:

<http://osrp.lanl.gov/SCATRTemplate.xls>

More information on CRCPD website at:

<http://www.crcpd.org/StateServices/SCATR.aspx>

# Radiation Response Volunteer Corps Development

- CDC/CRCPCD 5-year cooperative agreement for development and enhancement of the radiation volunteer program
- Specific to Population Monitoring and reception center assistance
- System of sub-awards to state radiation control programs, public health preparedness programs, professional societies and Medical Reserve Corp units

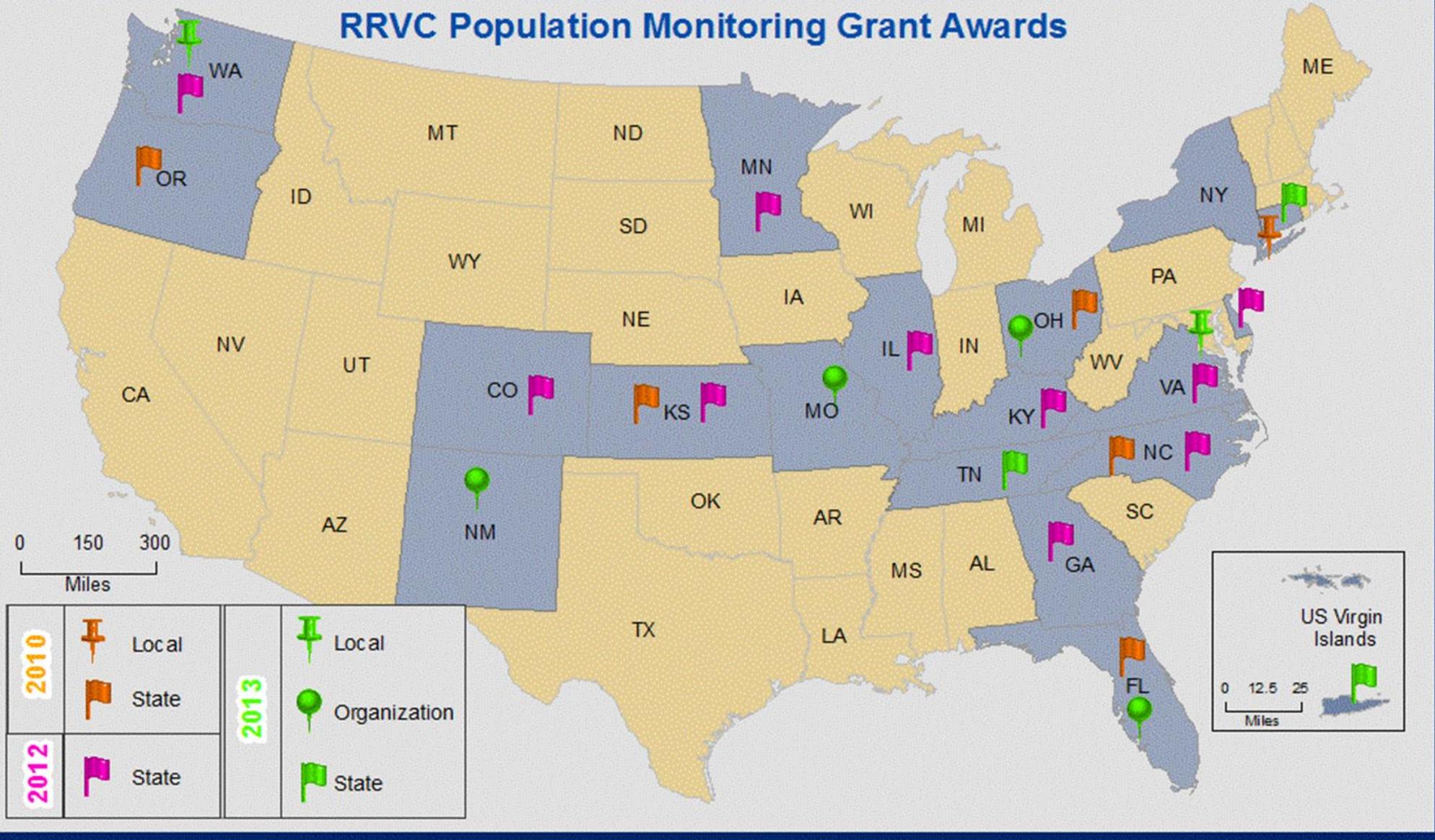




# Radiation Response Volunteer Corps Development

- Outreach at meetings of radiation professionals
- Coordination with Medical Reserve Corps
- Build a sustainable action plan for continued use of the program and engagement of volunteers

# RRVC Population Monitoring Grant Awards



0 150 300  
Miles

2010		Local	2013		Local
		State			Organization
2012		State			State

US Virgin Islands  
0 12.5 25  
Miles

# Success Stories

- Population Monitoring Exercises conducted
- Outreach to local Medical Reserve Corps (MRC)
- Trained local radiation professionals
- Population Monitoring plans developed
- Partnerships built between federal, state and local entities



# Grant Funding Sub-Awards Available

- Sub-award funds up to \$24,999 per year for development of population monitoring resources
- Focus is to reach radiation professions and augment radiological tasks performed at a Community Reception Center.
- Proposals reviewed by CRCPD Committee for Radiation Volunteer Development
- Sub-awards may be used for:
  - Outreach
  - Training and exercises
  - Credentialing
  - Communications Systems



# More Information on RRVC Development Project

[http://www.crcpd.org/RRVC/rrvc\\_rfp.aspx](http://www.crcpd.org/RRVC/rrvc_rfp.aspx)

# Environmental Data Sharing

- During Fukushima, there were challenges with data sharing and publication timing.
- Feds, states and industry all collected data.
- Our usual domestic response tools weren't used as we might have expected.
- During a radiological emergency, a coordinated effort is needed across all levels of government, and rapid collection and analysis of data to characterize the incident is crucial to this effort.

# CRCPD Committee on Interagency Environmental Data Sharing and Communication

- Evaluate current data collection efforts of state and federal programs:
  - Identify availability of data currently collected
  - Identify data gaps
  - Identify QA procedures used to ensure data quality
- Develop automated channels for access to environmental data (day to day basis)
- Formalize manageable policies to guide data collection and communication activities in coordination with CRCPD and EPA leadership

# Committee on Interagency Environmental Data Sharing and Communication (cont.)

- Ensure monitoring methods and QA procedures are packaged with the data in easily accessible form
- Assess training gaps and need for tools to launch this initiative
- Conduct a pilot project for sharing of environmental data

# RadResponder Network

Web-based system allows uploading of field measurements and lab sample data. Provide results in spreadsheet format and mapping of data

The screenshot displays the RadResponder Network web application interface. At the top, the RadResponder Network logo is visible, along with user information: decan.sara@epa.gov, EPA RERT, and NREP 2014. The main navigation bar includes buttons for '+ Create Field Sample', 'Print Labels', 'Receiving', 'Mapping', and 'Excel Import'. The 'Samples' section features a 'Field Samples' table and a 'Summary' section with a pie chart.

SUMMARY:	24 HOURS	72 HOURS	1 WEEK	TOTAL
Air	0	0	0	69
Feed	0	0	0	19
Food	0	0	0	20
Ground Deposition	0	0	0	24
Milk	0	0	0	24
Other	0	0	0	19
Soil	0	0	0	26
Spectra	0	0	0	20
Sludge	0	0	0	25
Vegetation	0	0	0	21
Water	0	0	0	24
All	0	0	0	311

**Summary:** Entire Event

**Sample Types:**

- Soil: 26
- Water: 24
- Vegetation: 21
- Sludge: 25
- Other: 19
- Food: 20
- Feed: 19
- Ground Deposition: 24
- Air: 69
- Spectra: 20
- Milk: 24

**Sample Set Downloads:** File Format: All

Download (0) Clear Selection

1

NREP 2014-All Field Samples-Full Set - Excel  
04/07/2014 - Current



# First Nationwide Drill for Environmental Data Sharing

*“Execute a single nationwide drill where a large number of organizations simultaneously utilize RadResponder to upload and share data in a realistic manner.”*

- One day drill on July 31, 2014
- Total of 213 responders participated representing:
  - 6 local agencies
  - 40 states
  - 23 federal offices
  - 2 universities

# Environmental Data Sharing Drill

- 21,844 measurements recorded
- Real data collected, uploaded to RadResponder website and shared across all participants
- Measurements were collected using handheld meters, stationary monitoring systems, and soil and water samples.
- Responders able to upload data using smart phones, iPads, laptops and desktops
- Canned background environmental sample results from different media also provided

# EXERCISE

# RadResponder Measurements

Monitoring Status

Nationwide Rad Responder Drill

SET 3





Total Measurements (including fixed sensors): 21844

Gamma measurements (from unique locations) that are potentially consistent with regional background: 2401, 11%

Gamma measurements (from unique locations) with questionable values when compared with expected regional background: 321, 12%

Data Statistics:

Alpha measurements: 31  
Beta measurements: 102  
Gamma measurements: 21844  
Observations: 132  
Distinct Users: 192  
Groups: 68  
States represented: 38

Legend

-  Questionable Gamma
-  Gamma
-  Alpha
-  Beta

Color ramp as indicated in the USGS map in the top left panel

Map includes data through 18:00 EDT

Map created on 8/5/2014 at 5:35:16 PM EDT  
Check for updates in 12 hours

FRMAC APPROVED

MNSA Consequence Management Home Team

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# Summary

- CRCPD coordinates many radiation protection issues among the state radiation control agencies and with federal agencies
- Many opportunities exist for input from radiation professionals outside state government
- More information on each of these topics is available at the CRCPD website or by contacting us.

# CONTACT INFORMATION

**Web-Site:** [www.crcpd.org](http://www.crcpd.org)

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