SOIL INFORMATION DELIVERY ON NAVAJO NATION

Department of Interior
Bureau of Indian Affairs
Navajo Region
Natural Resources and Land Inventory & Classification

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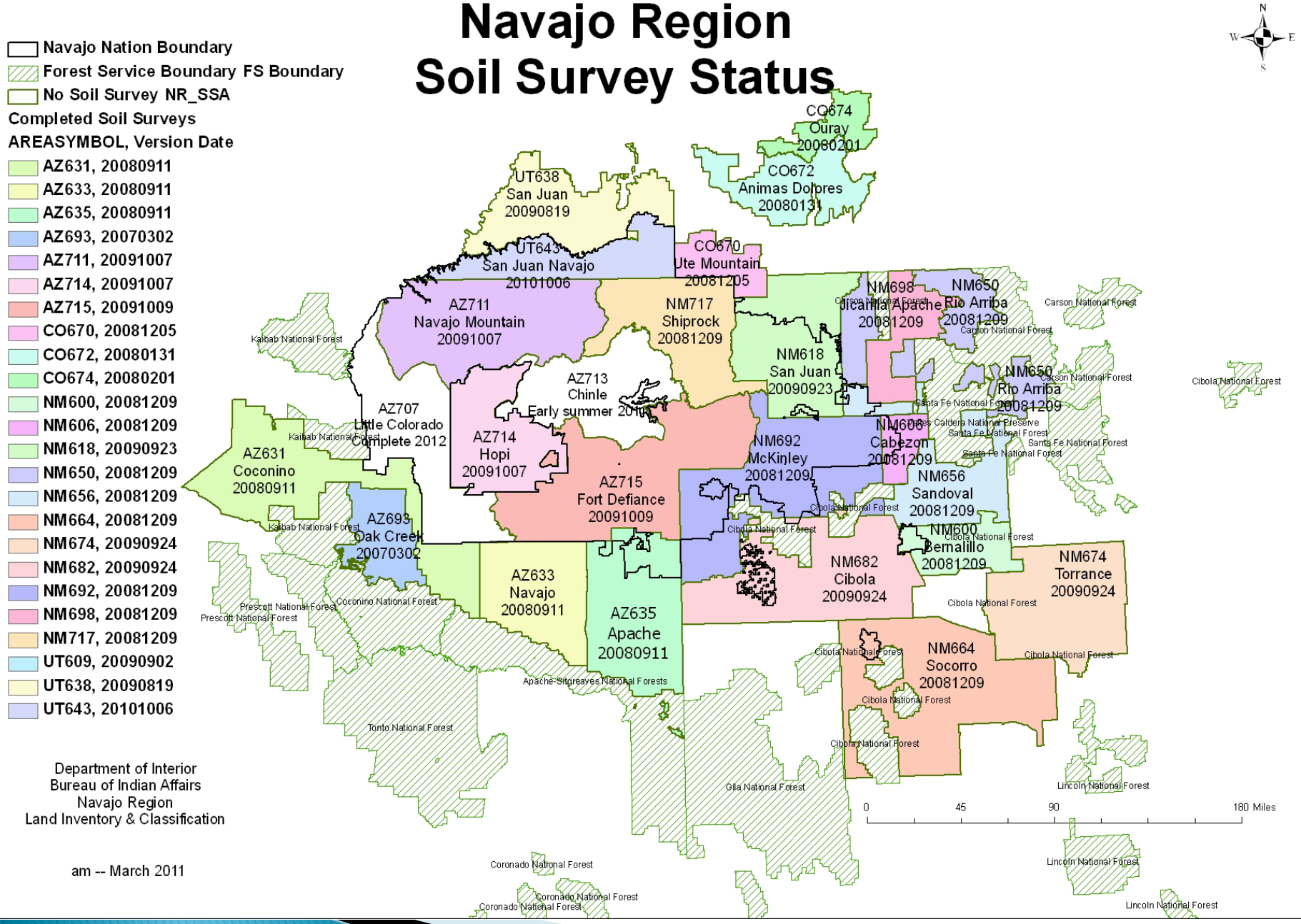
- Bureau of Indian Affairs, Western Region, Range and Agriculture Program

- Department of Interior
  National Geospatial Resource Center

- Department of Agriculture, Natural Resources Conservation Service

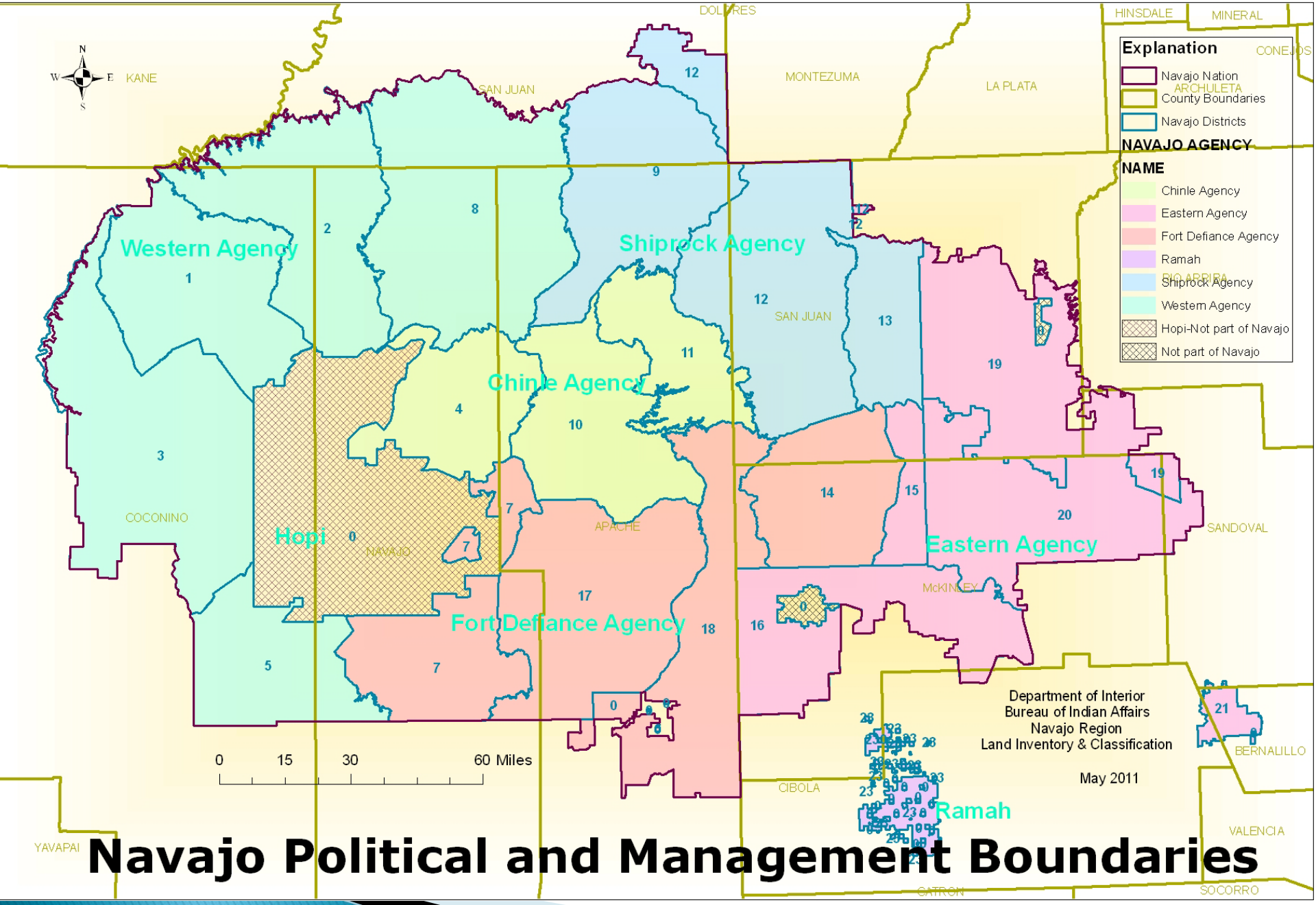
Current Status of Soil Survey on the Navajo Nation

Navajo Region Soil Survey Status



Soil Survey Data Issues

- Navajo Political Boundaries
- Soil Survey Boundaries
- Technology Advances



Navajo Political and Management Boundaries

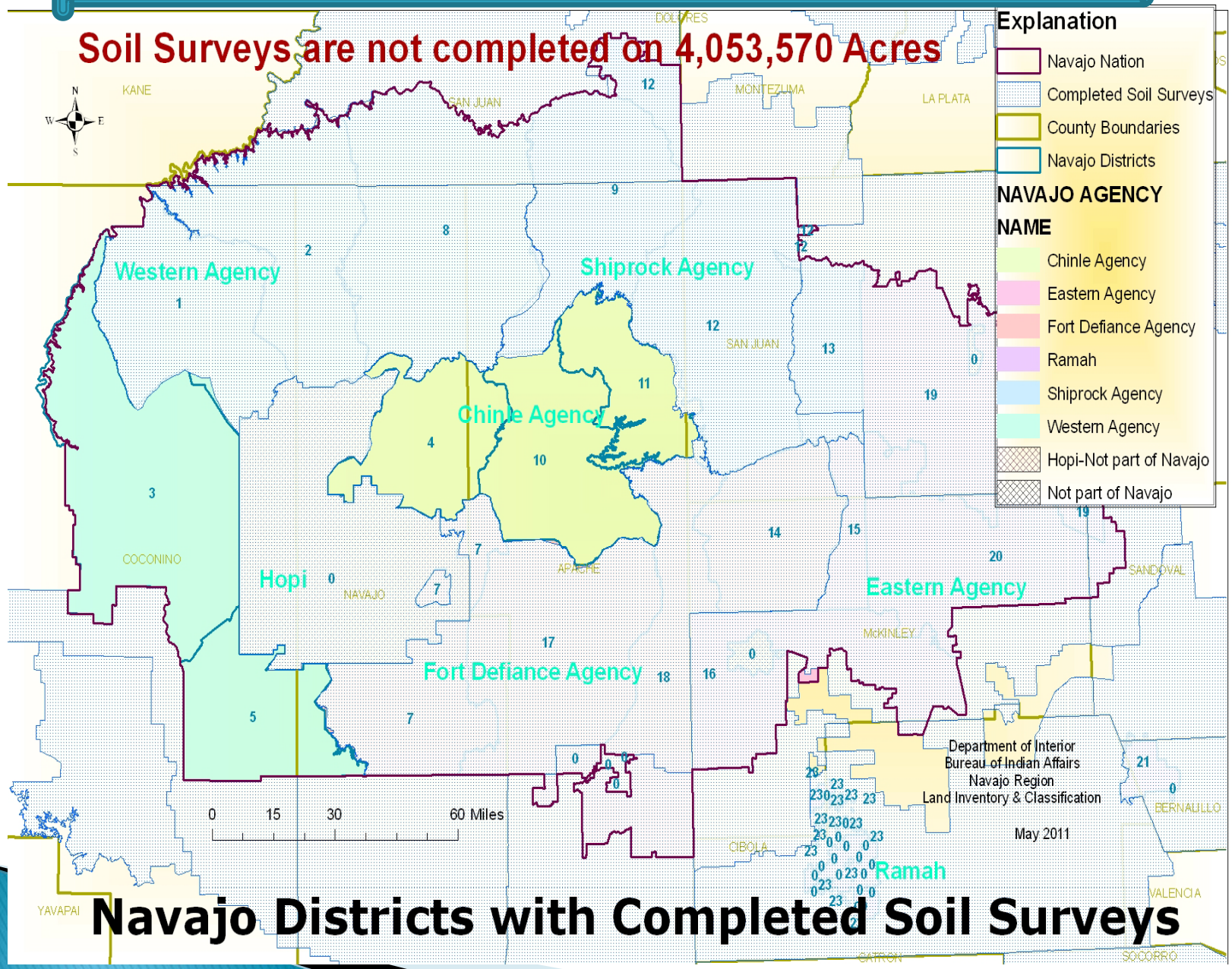
Origins of Data Issues

- Data from NASIS
- Data Receiving at Navajo Region

Data from NASIS

- Not available
- Incomplete
- Not applicable to Regional needs

Not available



Incomplete

- Fields in NASIS are not filled
- Ecological site data is not entered into NASIS
- Required data is not part of the soil survey
- Data incomplete in reports from SDM

Not applicable to Regional needs

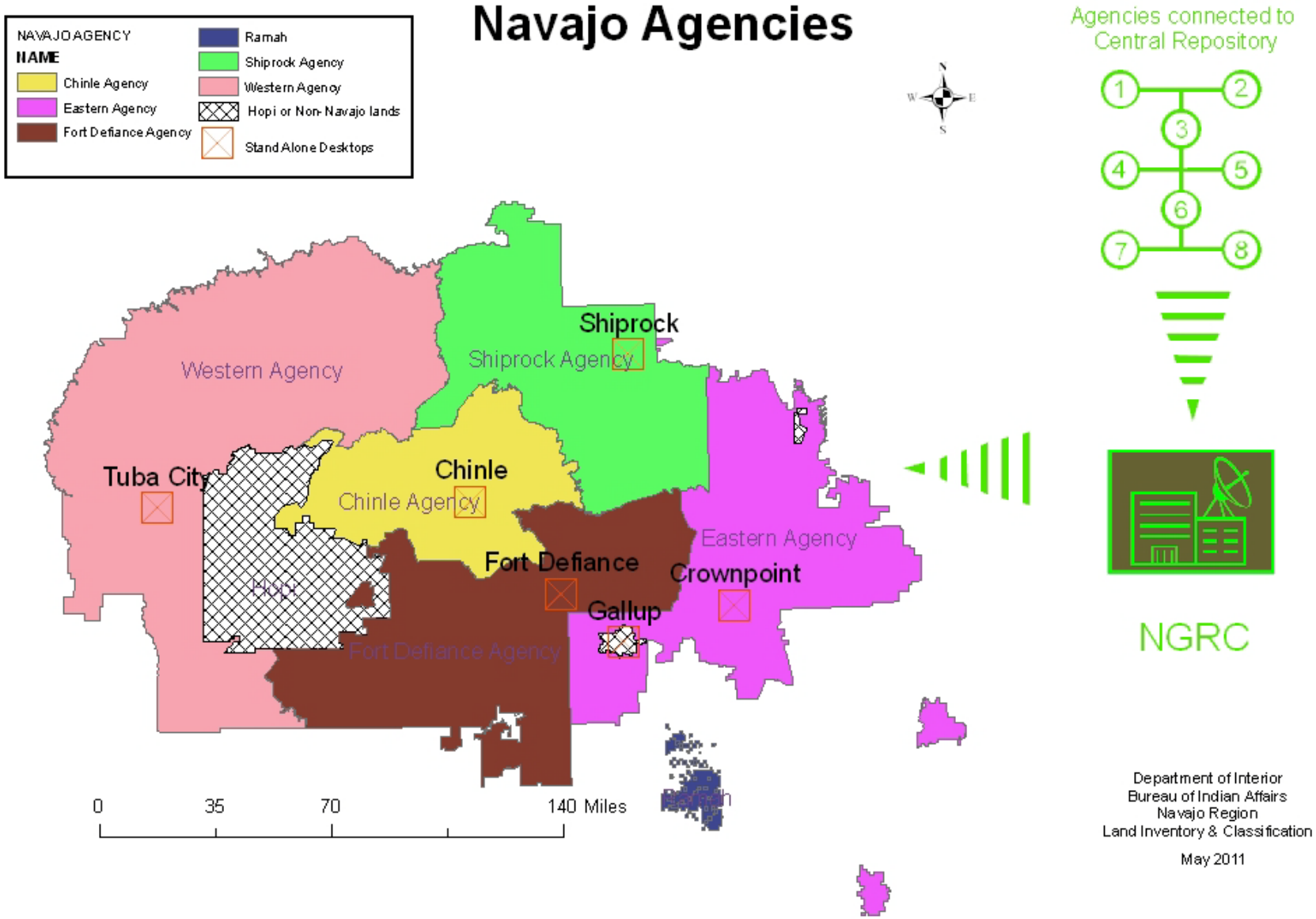
- NASIS population for US uses—not Navajo specific
- Soil Data Mart/Data Viewer have aggregated and static data

Data Receiving at Navajo Region

- Incompatible technical environment
- Communication needs

Incompatible Technical environment

- Navajo Region uses a desktop service
- NASIS uses a sophisticated web service



Disconnected Desktops vs. NGRC Central Repository

Communication

- Court Orders
- Distance between agencies/districts
- Technology training/acceptance

NASIS Data Issue Resolutions

- Navajo Region-wide soil survey

- NASIS Client for Navajo Region

Regional Data Issue Resolutions

- Enterprise-web-based service system
- Centralized repository
- BIA/Tribal Collaboration on MLRA updates

Results/ Benefits

- Active involvement of Navajo Region staff in determining data needs
- Improved soil information in NASIS
- Better interpretive reports to Regional Management

Conclusions

- BIA/Navajo Nation/NRCS/NGRC collaboration for a new soil database delivery system for Tribal Nations and BIA