

# Update on Land Acquisition Monitoring Program

O&M Subcommittee

July 2017



# Wildlife Mitigation Summary



# Wildlife Settlement Agreements

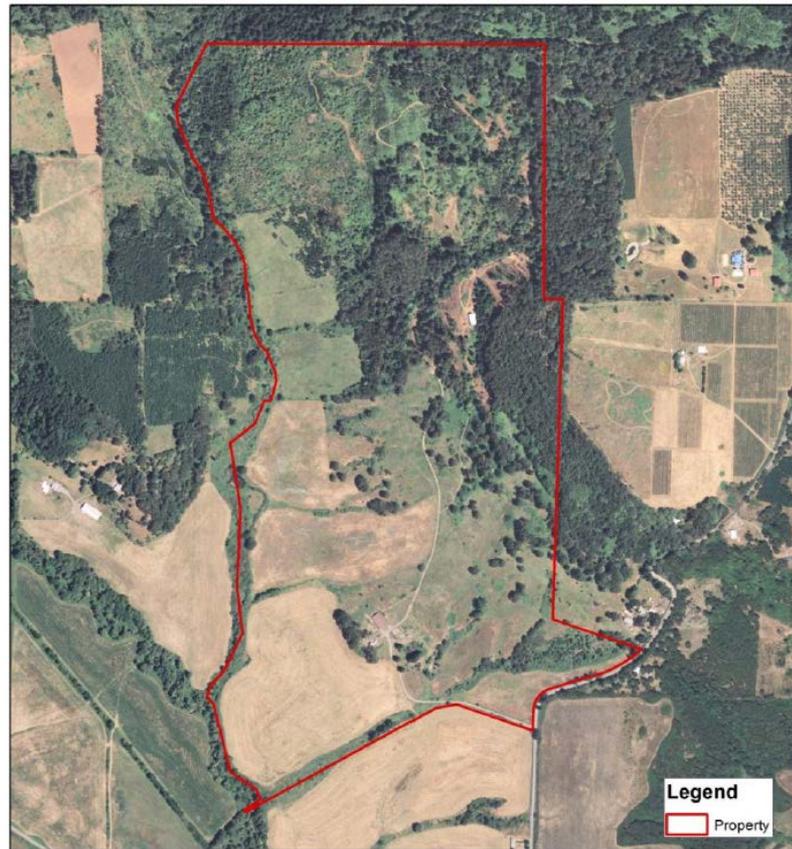
- Libby and Hungry Horse Dams
  - State of Montana—1988
- Dworshak Dam
  - State of Idaho and Nez Perce Tribe—1992
- Willamette Dams: Big Cliff, Foster, Green Peter, Dexter, Detroit, Hills Creek, Lookout Point, and Cougar
  - Willamette Wildlife Agreement- 2010 with State of Oregon for all federal dams in Willamette; includes operational impacts
- Southern Idaho Dams: Anderson Ranch, Minidoka, Palisades, and Black Canyon
  - Southern Idaho Wildlife Agreement—2014 with State of Idaho (for half of C&I and operational impacts, including the operational impacts for Deadwood)

# Regional HEP Team Final Analysis

*Table 4 FCRPS HU crediting summary by sub-region*

Sub-region	Hydro Facilities	Total HU Losses	Mitigated HUs	Unmitigated HUs	Over-mitigated HUs
Lower Columbia	Bonneville, McNary, The Dalles, and John Day Dams	72,304	107,878	0	35,574
Upper Columbia (Washington)	Grand Coulee and Chief Joseph Dams	120,543	136,263	0	15,720
Upper Columbia (Idaho)	Albeni Falls Dam	28,658	16,686	11,972	0
Southern Idaho	Minidoka, Palisades, Black Canyon, and Anderson Ranch Dams	58,830	44,676	14,154	0
Lower Snake River	Ice Harbor Dam, Lower Monumental, Little Goose, and Lower Granite Dams	26,774	37,467	0	10,693
		<b>307,109</b>	<b>342,970</b>	<b>26,126</b>	<b>61,987</b>

# Land Acquisition Monitoring



0 62.5 125 250 375 500 Meters  
Imagery: 2005 NAIP  
December 20, 2012



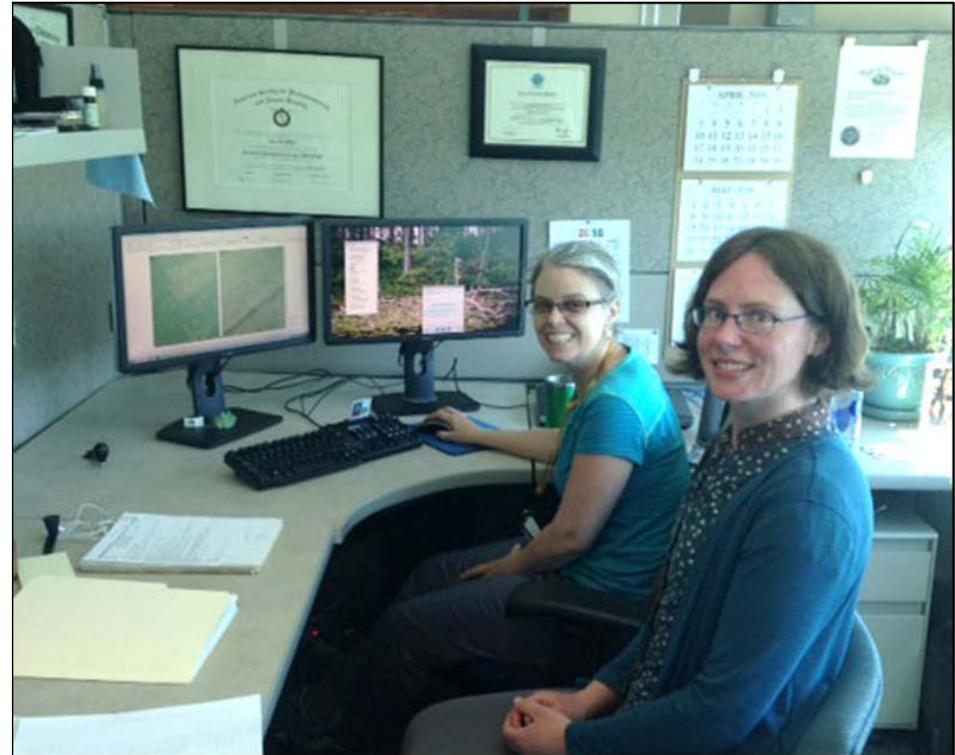
# Land Acquisition Monitoring Program

- Over 700,000 acres protected for fish and wildlife to date
  - For the majority of these properties, BPA holds a CE or a third-party right of enforcement on behalf of the U.S.
- Through the Monitoring Program, we hope to:
  - Complete BPA inventory of F&W land acquisitions, including maps and updated contact information
  - Verify condition of federal real-property assets
  - Ensure compliance with legal agreements (i.e. MOAs and CEs) and land management plan
  - Identify any issues that land owner/manager is having and identify potential solutions

# Two-pronged Approach to Monitoring

## Remote sensing

- Before and after imagery
  - Satellite imaging and aerial photography
- Analysis conducted in-house (BPA Geospatial Services Analysis)
- Completed before site visit
- Documents all changes



# Two-pronged Approach to Monitoring

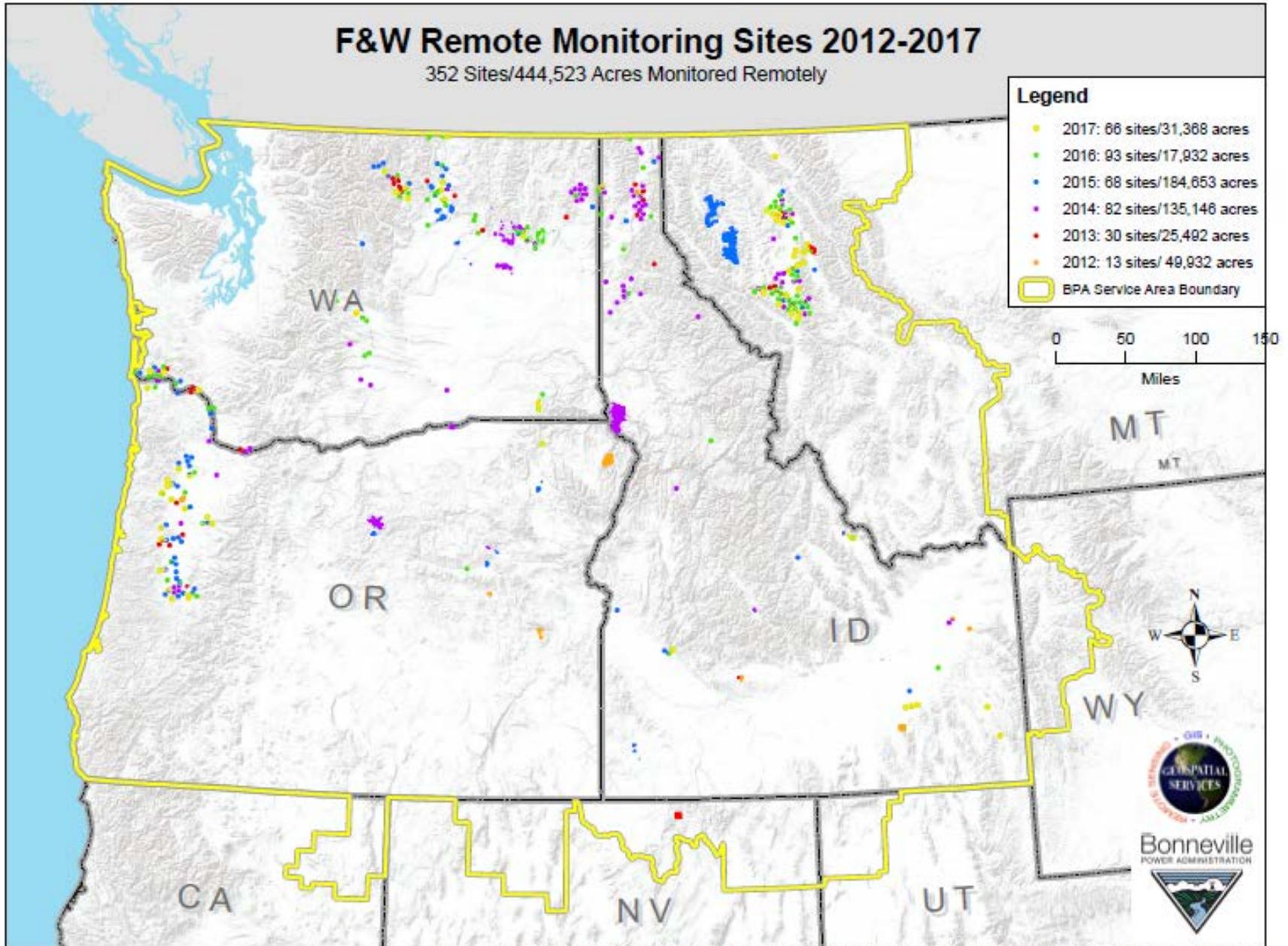


## Follow-Up Site Visits

- Can be an on-the-ground visit or a phone call
- Great opportunity to check-in and hear about any issues or concerns
- Uses remote sensing findings as a place to start the conversation
- Very important for acquisitions that are not associated with annual contracts

# F&W Remote Monitoring Sites 2012-2017

352 Sites/444,523 Acres Monitored Remotely



# Next Steps

- Finish monitoring each acquisition for the first time
  - Through this process, finalize land acquisition inventory and related maps
- Identify improvements in the land acquisition monitoring program, such as:
  - Monitor adjacent or related tracts at the same time
  - Identify categories of risk (i.e. working lands easements might be monitored more frequently)
  - Identify programmatic issues and potential solutions