

# Am. Beaver Distribution Monitoring Ochoco National Forest

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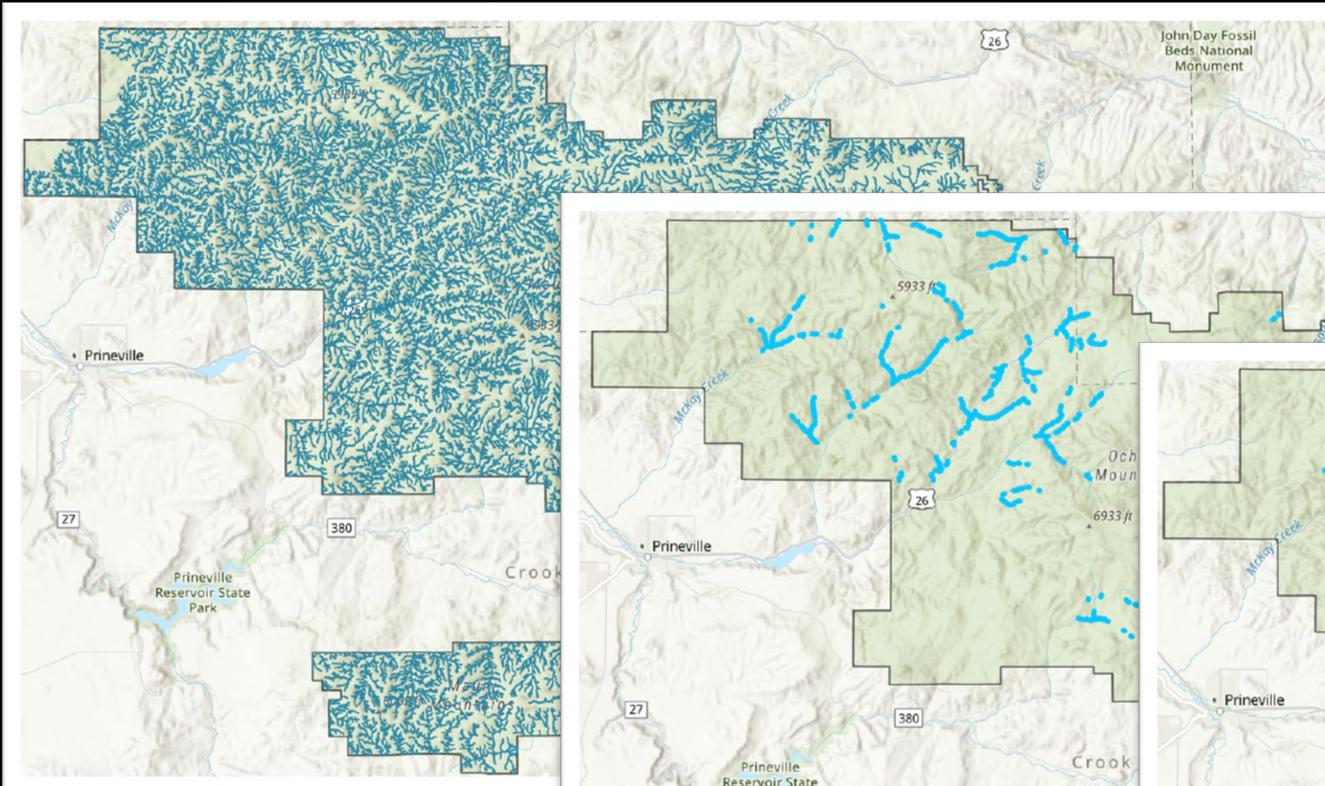


# Site Selection Process

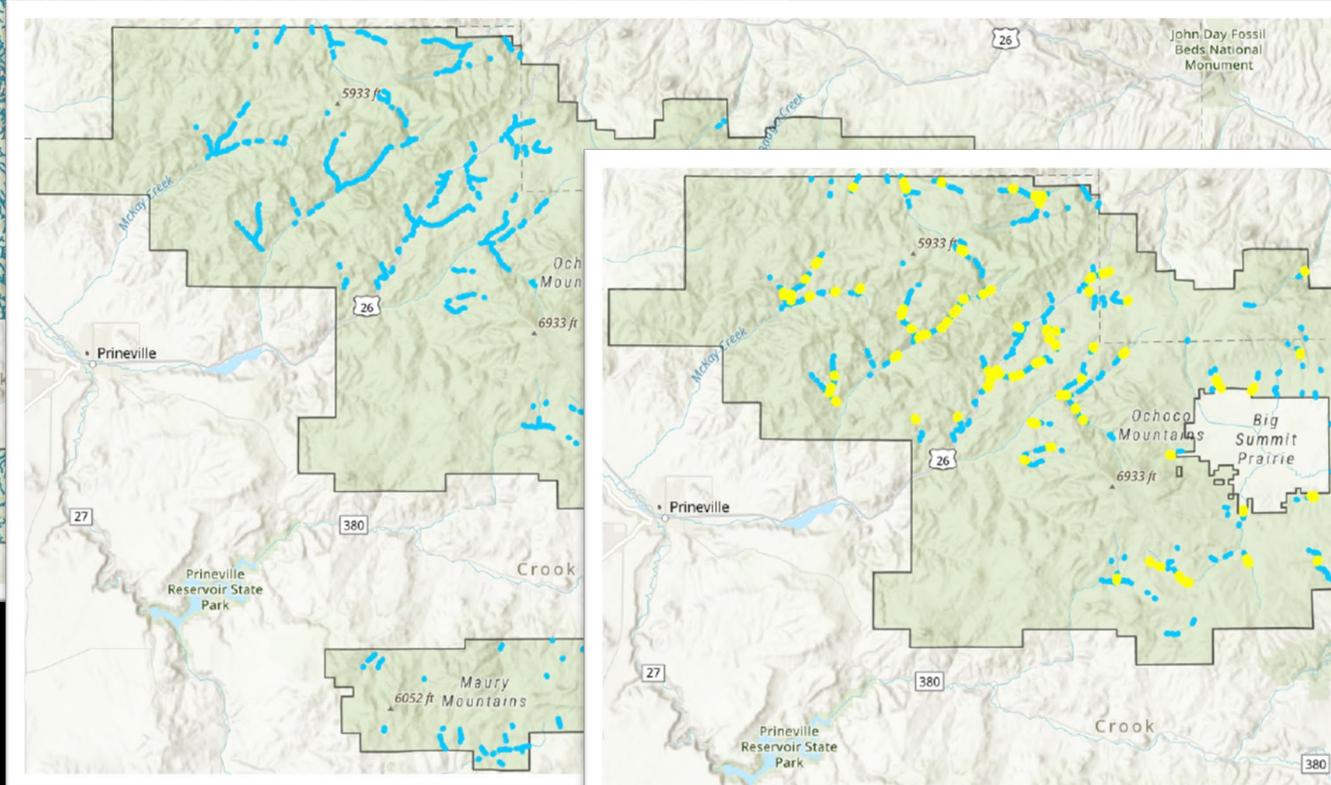
- Monitor both dam and non-dam beaver occurrences.
- Generated a *local* prediction of available habitat in ArcGIS using expert opinion, published literature, and known beaver locations.
  
- Predictors of *Potential Beaver Habitat*:
  - **Stream Netmap (TerrainWorks)**
    - Synthetic geomorphic habitat characteristics (10 DEM)
  - **National Hydrography Dataset (USGS).**
    - Overlaid perenniality with streams identified above.
  - **GNN Vegetation Structure Map (OSU, USFS)**
    - Combines field inventory data, mapped habitat variables, and Thematic Landsat.
  - **Riparian Habitat Conservation Areas (USFS)**
    - Removed areas with undefined channel.



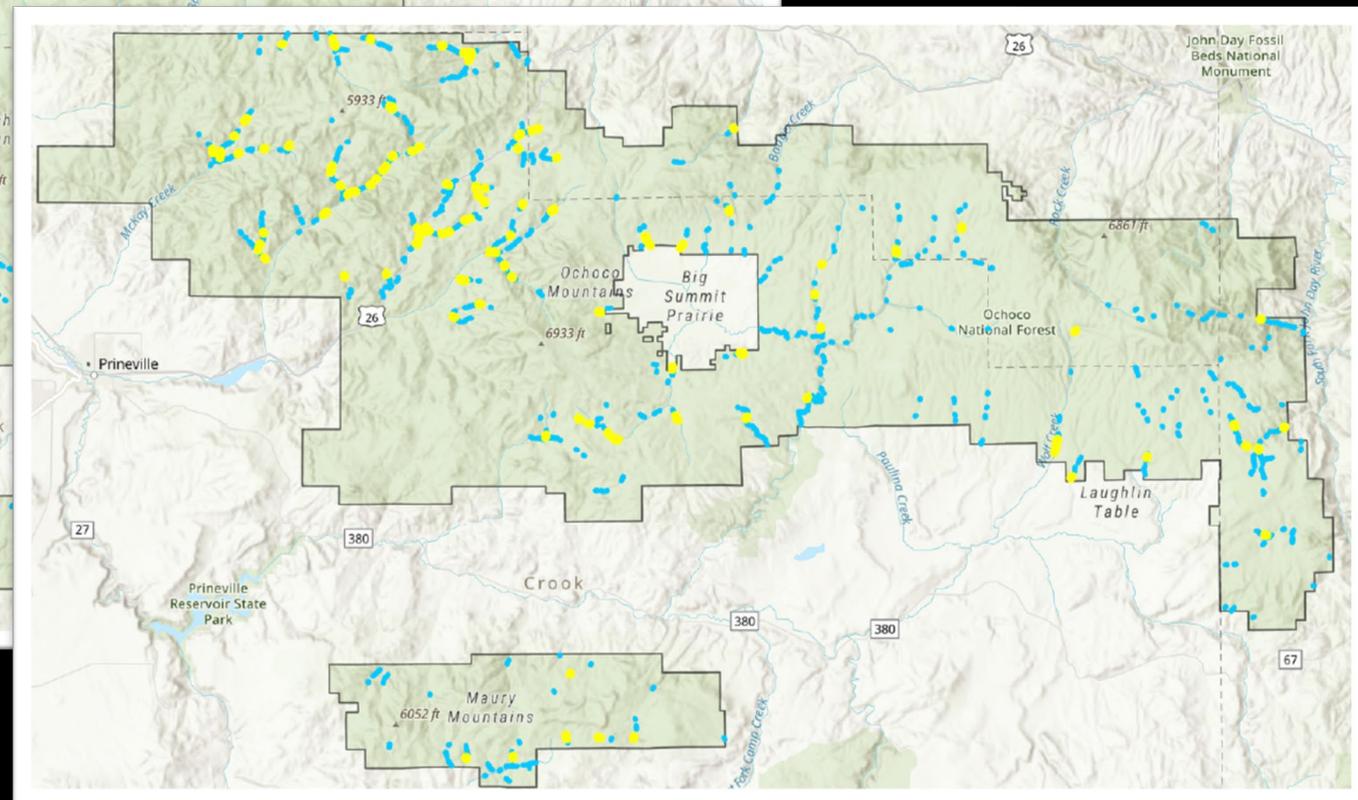
# Where to start looking for beavers in an ~ 750,000 acre forest...



8,218 total stream km  
(5,106 miles)



156 total stream km  
(97 miles)



23 total stream km  
(14 miles)

← 15% Minimum = 115 sites (200 meter)

# ONF Am. Beaver Monitoring Results

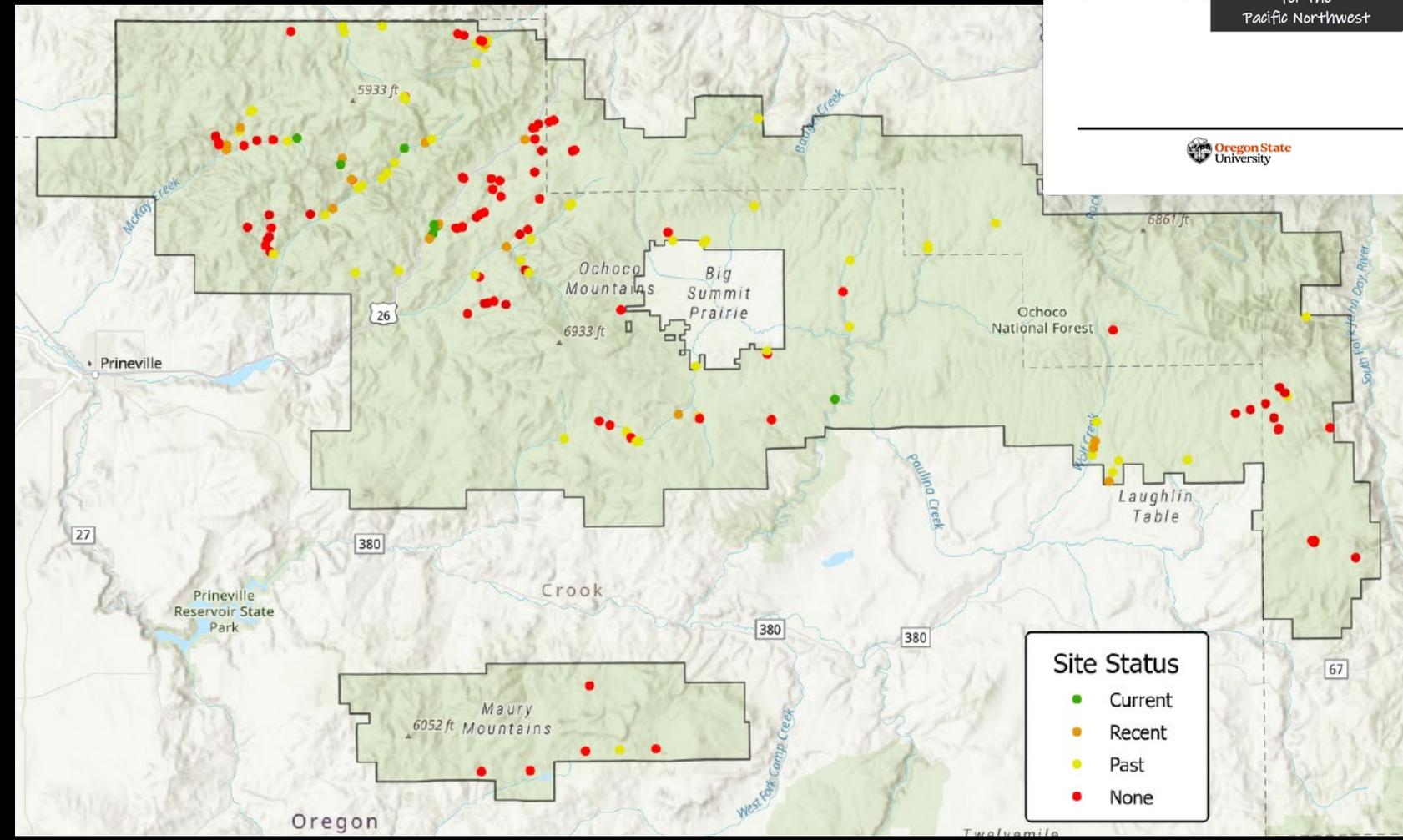


American Beaver Activity Survey Protocol for the Pacific Northwest



Survey Season Results				
Site Status	2022 (51)		2023 (113)	
	#	%	#	%
None	30	59	49	43
Past	16	31	44	39
Recent	4	8	13	12
Current	1	2	7	6

Collapsed Activity Classes				
Activity	2022 (21)		2023 (64)	
	#	%	#	%
Inactive	20	95	57	89
Active	1	5	7	11



# Comparison of Statewide Results

Beaver Activity Detected (%)			
	S. Coast Range (n=144)	Santiam BEA (n=133)	Ochoco NF (n=113)
Detected	53	31	57
Inactive	65	78	89
Active	35	22	11
Dams	17	6	8





Questions?

