# Prairies are Cultural Landscapes: Preserving Prairie History and Archaeology in the Southern Puget Lowland

Bethany K. Mathews, MA, RPA, and Katy Leonard-Doll, MA, RPA



#### **Abstract**

Archaeological sites associated with prairies in western Washington provide invaluable information on the history of Indigenous landscape stewardship and resource use practices. Archaeological evidence and oral histories indicate that prairies in the Puget Lowland have been managed for thousands of years. In the course of Cultural Resource Management (CRM) in the Southern Puget Lowland, archaeological sites in these settings are often recorded as lithic isolates or small lithic scatters, and unfortunately these site types are often not ascribed historical significance. Less than 3% of precolonial prairies remain in western Washington due to settler incursion, and prairie archaeological and cultural sites remain susceptible to impacts from development and agriculture. What methods are we using to identify archaeological sites and cultural landscapes on Puget Lowland prairies, and how can we better preserve this important history? In this poster we recommend that prairie archaeological sites are components of cultural landscapes, and we suggest that status quo CRM methods are not adequate for recognizing these important sites.

## **Upper Chehalis Basin Prairies** are Historically Significant Cultural Landscapes

Our service area is concentrated on the Puget Sound, Lower Cowlitz, Lower and Upper Chehalis, Deschutes, Skokomish, Hood Canal, Nisqually, and Puyallup basins, and as such much of our research on prairie history is focused here (Figure 1). Oral history, traditional ecological knowledge, ethnography, written history, and archaeology indicate that prairies in the Upper Chehalis basin were managed with fire, and that these anthropogenic landscapes provided important food and medicine and supported a wide range of cultural purposes (Storm 2004).

The prairies of the Upper Chehalis basin are also important to American settler history, and especially the history of early American colonization of the region. In a recent study (Mathews et al. 2025) we found that American settlers situated Donation Land Claims on prairies 85% of the time in Lewis County, where the upper Chehalis basin is situated. These places were important to the early American economy, including international and Indigenous commerce and the subsistence farming that enabled Americans to settle permanently here.

# Cultural Landscapes are Historically Significant

In this poster we explore a cultural resource management framework that defines anthropogenic prairie landscapes as historic districts. Within this context, districts link discontiguous archaeological and cultural sites that are otherwise at risk of loss without due consideration. The concept of the historic district adequately connects sites associated with anthropogenic prairies, but we also blend definitions of cultural landscapes and traditional cultural places to better encapsulate how we view these historically and culturally important places.

The National Park Service (NPS) defines a traditional cultural place as a "building, structure, object, site, or district that may be listed or eligible for listing in the National Register for its significance to a living community because of its association with cultural beliefs, customs, or practices that are rooted in the community's history and that are important in maintaining the community's cultural identity" (NPS 2024). These places are historically significant if their "existence is significant to a community because of its place in the community's knowledge about its origins, its cultural history, or the nature of the world."

The NPS defines a cultural landscape as "a geographic area, including both cultural and natural resources and the wildlife or domestic animals therein, associated with a historic event, activity, or person, or exhibiting other cultural or aesthetic values" (NPS 2025). Cultural landscapes include humanmodified ecosystems which include prairies, forests, rivers and shores, and constructed works.

We have identified some preliminary features of anthropogenic prairies that may be considered for historic register eligibility (Table 1). Special consideration should be applied when assessing the integrity of prairie landscapes due to effects of modern intrusion on these landscapes and the vitality of prairies that have been neglected following American colonization of the region.

Criterion	Definition	Anthropogenic Prairie Site Features
A	"Be associated with important events that have contributed significantly to the broad pattern of our history"	<ul> <li>Prairie landscape</li> <li>Villages</li> <li>Task sites</li> <li>Burials</li> <li>Fire paleoecology in soil, vegetation, and seed bank</li> </ul>
B	"Be associated with the lives of persons significant in our past"	<ul> <li>Prairies associated with important people, beings, and spirits</li> <li>Villages</li> <li>Burials</li> <li>Fire paleoecology in soil, vegetation, and seed bank</li> </ul>
C	"Embody the distinctive characteristics of a type, period or method of construction; or represent the work of a master; or possess high artistic values; or represent a significant and distinguishable entity whose components may lack individual distinction"	<ul> <li>Fire paleoecology in soil, vegetation, and seed bank</li> <li>Villages</li> <li>Camps</li> <li>Task sites</li> <li>Landscape features created by beings</li> <li>Trails</li> </ul>
D	"Have yielded, or may be likely to yield, information important in prehistory or history"	<ul> <li>Fire paleoecology in soil, vegetation, and seed bank</li> <li>Villages</li> <li>Task sites, including lithic scatters and isolates</li> <li>Harvesting/processing features or isolates</li> </ul>

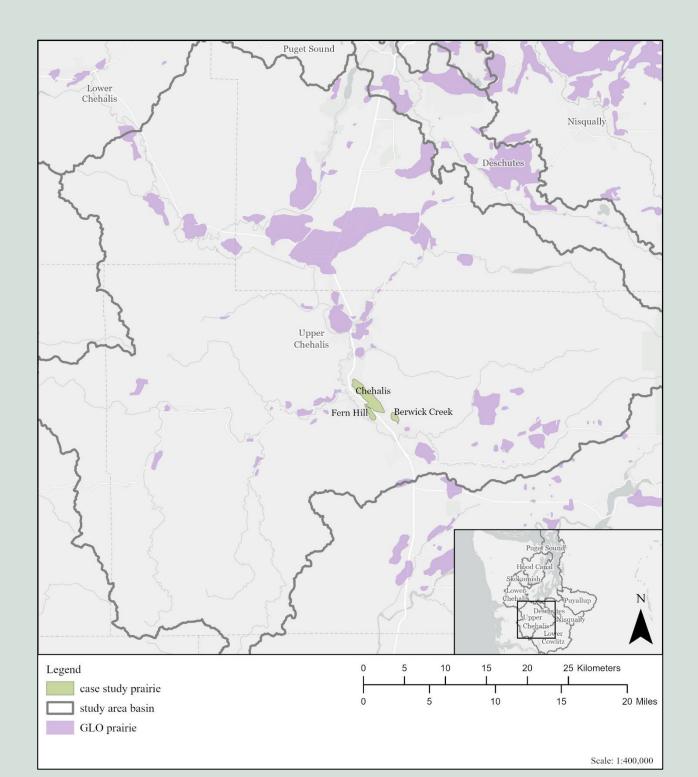


Figure 1. Case study area and GLO mapped prairies.

### Defining Prairie Boundaries & Boundary Issues in CRM

Archaeological properties are often recorded as sites, State). We recognize that these plats are imperfect, groupings of sites linked by function, theme, or plan, including discontiguous spatially discrete sites (NPS 2000). Drawing boundaries around historic properties is a perpetual challenge in CRM that affects the management of these resources. To explore the possibility of defining anthropogenic prairies as cultural landscapes, we utilized General Land Office (GLO) plats to map prairie boundaries.

The GLO commissioned plat maps for the purpose of advertising and managing lands available for American settlement after the enactment of the Oregon Donation Land Claim Act in Oregon Territory (which initially included land that is now Washington

but archaeological districts can also be used to bound but they serve as a rough draft for delineating prairies that were managed by Indigenous people from time immemorial.

> Antiquity Consulting maintains a GIS database of GLO and DLC data, which includes georeferenced GLO plats and polygons of prairies mapped on GLO plats. In a previous study (Leonard-Doll and Mathews 2024) we found that the majority (60.5%) of prairie sites were within 100 meters of the GLO-mapped prairie margin. As such, we elected to buffer the boundaries of the GLO-mapped prairies by 100 meters to study sites associated with anthropogenic prairies (see Figure 1).

## **Archaeological Site Eligibility Case Study:** Chehalis, Fern Hill, and Berwick Creek Prairies

(4 meters outside)

To better understand how we might shift our thinking about small, dispersed prairie archaeological sites, we selected the Chehalis, Fern Hill, and Berwick Creek prairies as a study area (see Figure 1). The study area was created by buffering the margins of GLO-defined prairies by 100 meters following justification in Leonard-Doll and Mathews 2024 discussed in the previous section. The register eligibility and significance criteria were tallied for each site within this study area (Table 2).

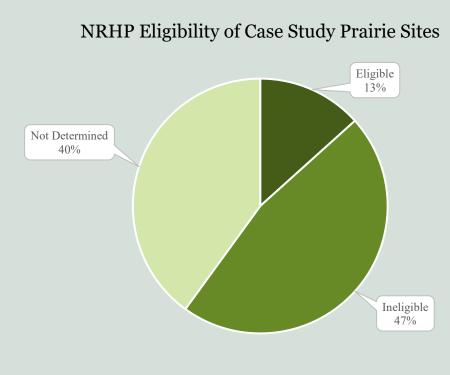


Figure 2. NRHP eligibility of case study prairie sites.

Table 2. Archaeological Lithic Sites on Chehalis, Fern Hill, and Berwick Creek Prairies.

			Doration of continue too.	
Site #	Prairie	Site Size	NRHP	Criteria
		(meters)	Eligibility	Discussed
45LE520	Berwick Creek	120 x 245	Eligible	D
45LE521	Berwick Creek	55 x 200	Eligible	D
45LE913	Berwick Creek	20 x 124	Ineligible	A, D
45LE573	Berwick Creek	18 x 19	Ineligible	D
45LE1060	Berwick Creek	1 X 1	Ineligible	D
45LE1061	Berwick Creek	1 X 1	Ineligible	D
45LE893	Berwick Creek		Ineligible	-
	(55 meters outside)			
45LE916	Berwick Creek	1 X 1	Ineligible	-
45LE917	Berwick Creek	1 X 1	Ineligible	-
45LE928	Chehalis		-	-
45LE578	Fern Hill		-	-
45LE614	Berwick Creek		-	-
45LE690	Berwick Creek	38 x 168	-	-
45LE613	Berwick Creek		-	-
	(3.5 meters outside)			
45LE894	Berwick Creek		-	-

In the broader Chehalis River basin, very small lithic sites are often recorded from limited surveys and these sites are frequently recommended not eligible for listing on historic registers. Under Washington State law these sites are protected from unmitigated impacts which means eligibility recommendations are not necessary outside the Section 106 process, but 60% of these sites have received eligibility recommendations or determinations (Figure 2). Only two sites in the study area have been determined eligible, comprising 13% of the study sites and 22% of sites with determinations. These two sites are among the largest sites of the study and diagnostic tools were observed at these sites.

# "The spirit and direction of the Nation are founded upon and reflected in its historic heritage"

The National Historic Preservation Act (16 U.S.C. §470) was established in the belief that the "historical and cultural foundations of the Nation should be preserved as a living part of our community life and development in order to give a sense of orientation to the American people." Anthropogenic prairies have been and continue to be critically important places in our region. The historical significance and living culture of anthropogenic prairies is undeniable, and our treatment of these sites in cultural resource management should consider the broader cultural landscape.

#### **References Cited**

Leonard-Doll, Katy and Bethany K. Mathews 2024 Prairie Archaeological Sites in Thurston and Lewis Counties: Empirical Data for Cultural Resource Management, poster presented at the 77th Northwest Anthropological Conference, Portland, OR, March 7.

Mathews, Bethany K., Riley Mallory, and Libby Musolino 2025 Donation Land Claim Landscapes: American Settlement of Southern Puget Lowland Prairies, poster presented at the 85th Society for Applied Anthropology Conference, Portland, OR, March 27.

National Park Service

2000 National Register Bulletin 36: Guidelines for Evaluating and Registering Archaeological Properties. National Park Service, United States Department of Interior. 2024 National Register Bulletin 38: Identifying, Evaluating, and Documenting Traditional Cultural Places. National Park Service, United States Department of Interior. 2025 Understand Cultural Landscapes.

https://www.nps.gov/subjects/culturallandscapes/understand-cl.htm.

Storm, Linda

The Ethnoecology of Upper Chehalis Prairies. Douglasia 28(3):6-9. Washington Native Plant Society.

#### Acknowledgements

Our research on prairie history has particularly benefited from conversations with the Cowlitz Indian Tribe Tribal Historic Preservation Office, Confederated Tribes of the Chehalis Reservation Tribal Historic Preservation Office, Quinault Indian Nation Tribal Historic Preservation Office, and Linda Storm.

More papers available: www.AntiquityConsulting.com

