

Plateau Lake, Yellowstone National Park, Wyoming (Peterson 2024)

Introduction

Yellowstone National Park (YNP) contains a rich human history occupying this landscape for at least 11,500 years. Cultural resources in the park, protected since 1872, represent the material embodiment of one of the largest and most complete continua of human occupation in the western United States. In 2023, the YNP Archeology Program and Office of the Wyoming State Archaeologist (OWSA) initiated a partnership research project to inventory and identify significant archaeological resources within the Thirsty Creek Watershed, West District, Yellowstone National Park (YNP), the primary riverine-based transportation corridor for this area. This watershed is situated in rugged and remote backcountry on the rhyolitic Madison Plateau between the Continental Divide and the Summit Lake Trail and includes the western edge of the Yellowstone Caldera.

This is the first archaeological resource study conducted in this portion of the Madison Plateau. In 2023 and 2024, OWSA surveyed approximately 2,700 acres, focusing efforts on Summit Lake, Little Summit Lake, Plateau Lake, an unnamed lake (AKA "Lily Pad" Lake) on the Montana-Idaho border, thermal areas, and the southern end of the Thirsty Creek drainage. Data obtained are filling a gap in our knowledge and understanding of pre-park human use not only of hydrothermal, fresh water, and other resources in the Thirsty Creek watershed, but also travel and trade routes across the Greater Yellowstone Ecosystem.

Historical Archaeology

Summit Lake Trail (48YE2324)

The Summit Lake Trail was constructed as a fire lane in 1911, with a total cost of \$504.80 (Rosenberg et al. 2018). It is currently part of the Continental Divide Trail (CDT) and is heavily used by visitors and CDT thru-hikers during the summer months, and we noted moderately dense modern trash along the trail and at the Summit Lake campground (OE1). Field teams located four pieces of aqua glass near Summit Lake that date to ca. 1860s-1920s and the remains of two hole-and-cap cans about a third of the way west of Summit Lake to the western park boundary that date to the 1840s-1920s. These artifacts are associated with construction and/or early use of the fire lane.

Montana-Idaho Border Survey

Between 1904 and 1907, Howard B. Carpenter surveyed the Montana-Idaho state border. His team followed an incorrect bearing and placed iron boundary markers about 3 miles east of the actual state boundary. Shortly after placing these markers a large snow storm forced their departure. They later returned in 1907 to correct their mistake (Carpenter 1906).

In 2024, the OWSA team located remnants of Carpenter's September 1906 camp and three boundary markers incorrectly placed at Plateau Lake (YNP2024-14 to YNP2024-84). Artifacts left at their camp provide a glimpse of the daily lives of the 1906 survey team used in the field, such as food and beverage containers, utensils, and medicinal bottles. These are the only known archaeological sites from this expedition in YNP.



Photos of 1904-1907 survey equipment, upper (Carpenter 1907) and survey marker, lower (Peterson 2024).





Historical photo of what appears to be the northern part of Plateau Lake looking north, left (Carpenter 1907) and overview of that same pond looking south, right (Peterson 2024).



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"Lily Pad" Lake, Yellowstone National Park Montana-Idaho Border (Peterson 2024).