

**Rocky Mountains Cooperative Ecosystem Studies Unit
Project Summary**

Project Title: Vegetation Monitoring Following a Critical Herbicide Trial

Task Agreement #: P20AC00638

Discipline: Natural

Type of Project: Technical Assistance/Research

Funding Agency: National Park Service

Other Partners/Cooperators: University of Montana

Student Participation: No

Effective Dates: June 1, 2020 through December 31, 2023

Funding Amount: \$26,386

Investigators and Agency Representative:

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Project Abstract:

Project goals: To obtain critical post-treatment vegetation monitoring data. The University of Montana (PI - Peter Rice) agrees to provide technical capabilities to sample vegetation resources at Little Bighorn Battlefield NM. Vegetation will be resurveyed as measures of herbicide effectiveness and data will be summarized for park managers for future decision making.

Project objectives: – In July of 2018, LIBI conducted a small trial using indazaflam (Esplanade®) herbicide, a pre-germination product capable of reducing invasive annual grasses invading the park. Vegetation was measured prior to treatment and then five 0.25-acre test plots were herbicide-treated with three different treatments (control, herbicide @ 3 oz/ac rate, and herbicide @ 5 oz/ac rate).