

Biennial Report to the Montana Preservation Review Board

on the Stewardship, Status and Maintenance Needs of the Heritage
Properties of Montana State University

For the Reporting Cycle 2018 – 2019

April 24, 2020



In Compliance with Montana Code Annotated 22-3-424 (4)
Montana State Antiquities Act

Submitted by:

MONTANA STATE UNIVERSITY
CAMPUS PLANNING, DESIGN & CONSTRUCTION
P.O. BOX 172760
BOZEMAN, MT 59717-2760



Prepared by:

Lesley M. Gilmore, AIA
CUSHING TERRELL
411 EAST MAIN STREET, SUITE 101
BOZEMAN, MT 59715





April 24, 2020

TO: Peter Brown, State Historic Preservation Officer
Montana State Historic Preservation Office
225 North Roberts
Helena, Montana 59620

FROM: Candace Mastel, Campus Planner
Campus Planning, Design & Construction

RE: Biennial Report to the Montana Preservation Review Board

In compliance with the Montana Code Annotated 22-3-424 (4) Montana State Antiquities Act please find attached the Biennial Report for MSU campuses for the reporting years 2018 and 2019.

The report was prepared in collaboration with Cushing Terrell and includes MSU campuses at Bozeman, Northern, Billings, Great Falls, and MAES (Montana Agriculture & Experiment Stations). Please contact me regarding this report if you have questions or need clarifications.

Sincerely,

Candace Mastel, AICP, LEED AP
Campus Planner

CM/vp

cc: Dan Stevenson, Associate VP, University Services
John How, Director, CPDC
EJ Hook, Director, Facilities Services
Courtney Johnson, University Architect, CPDC
Richard Rudnicki, Planning Manager, CPDC
Patti Yasbek, Budget & Financial Services Manager, University Services

**Campus Planning,
Design & Construction**

Plew Building, 6th & Grant St.
P.O. Box 172760
Bozeman, MT 59717-2760
www.montana.edu/us/pdc

Tel 406-994-5413
Fax 406-994-5665

Mountains & Minds

TABLE OF CONTENTS

Executive Summary.....	1
Stewardship Efforts.....	1
Heritage Consultation Procedures.....	1
Heritage Determination and Consultation with SHPO.....	1
Recommendation.....	2
MSU Preservation Policies.....	2
MSU’s Heritage Building and Site Policy; Board of Regents Policy.....	2
Recommendation.....	3
Fort Assinniboine National Register Boundary Increase.....	3
Use of Obsolete Properties.....	3
Recommendation for Meeting about the Ag Stations.....	4
Grant Opportunities.....	4
Acknowledgments.....	5
Introduction.....	6
General.....	6
Methodology.....	7
Reporting.....	7
Documentation and Evaluation.....	7
MSU-Billings Campus’ Science Building.....	8
22-3-424 (4)(a) – Montana State University Resources.....	9
General.....	9
TABLE 1: Heritage Properties of MSU Campuses.....	11
22-3-424 (4)(b) – Property Status and Condition.....	12
General.....	12
MSU-Bozeman.....	12
Condition, Integrity & Status.....	12
Condition.....	12
Integrity.....	13
Status.....	14
Adverse Effects.....	15
Nominations.....	15
MSU-MAES.....	16

Condition, Integrity & Status.....	16
Adverse Effects	19
Nominations.....	19
MSU-Northern.....	19
General.....	19
Condition, Integrity & Status.....	20
Condition.....	20
Integrity	21
Status	22
Adverse Effects	22
Nominations.....	22
Discovery of Buildings More than Fifty Years Old.....	22
MSU-Billings.....	24
Condition, Integrity & Status.....	24
Adverse Effect	25
Discovery of Buildings More than Fifty Years Old.....	27
MSU-Great Falls	27
22-3-424 (4)(C) – Heritage Site Stewardship Efforts.....	28
General.....	28
MSU – Bozeman.....	28
General	28
Recent Projects at MSU-Bozeman.....	29
MSU MAES	30
Fort Ellis Ag Experiment Station (24GA1894)	30
Fort Assinniboine/NARC (24HL0329).....	31
Bozeman Area Research & Teaching (BART) Farm.....	33
22-3-424 (4)(D) – Maintenance Needs	35
General.....	35
MSU-Bozeman.....	35
MSU MAES.....	37
MSU-Northern.....	38
MSU-Billings.....	38
Great Falls College MSU.....	39
22-3-424 (4)(E) – Agency Compliance/Heritage Resource Management.....	40
General.....	40

MSU's Heritage Building and Site Policy; Board of Regents Policy	40
Recommendation	41
SHPO Consultations	41
General	41
MSU-Bozeman	41
MAES – Corvallis (Western Agriculture Research Center)	42
MAES – Fort Assinniboine	42
MSU-Billings	42
MSU-Northern	43
Efforts to Identify Potential Heritage Properties	43
Heritage Property Management Training	44
Appendices	
A: MSU Heritage Property Condition and Stewardship Spreadsheet	
B: List of MSU Buildings 50 Years of Age and Older	
C: Individual Heritage Property Forms	

Page left intentionally blank.

EXECUTIVE SUMMARY

Stewardship Efforts

This report documents efforts to preserve the places that matter and to publicize these efforts. MSU has thirty-seven established **heritage** properties (this includes thirty-two individual buildings and five historic districts with a number of buildings, sites, structures, and objects). MSU's flagship Bozeman campus has twenty-five buildings, five sites, and three objects within the historic district. The MSU-Billings campus has four individual heritage buildings, after a fifth one (the Academic Support Center) was demolished in 2018. MSU-Northern in Havre has two designated heritage buildings, one of which (Pershing Hall) was designated in January 2020. Restoration work on Pershing Hall will be included in the 2022 heritage reporting cycle.

MSU also has five Agricultural Research Center sites managed by MAES and dispersed throughout the state. Of these sites, two are located on sites of forts that used to protect the adjacent cities (among other functions) and were thus well poised to house agriculture experiment stations when the forts were decommissioned. The first MAES site is at Fort Ellis east of Bozeman, with eighteen heritage buildings and one archeological site. The second MAES site is at Fort Assinniboine six miles south of Havre, with twenty heritage buildings, fourteen sites, five structures, and three objects in a National Register Historic District nominated for its national significance (all under the umbrella of one Smithsonian number).

MSU's total stewardship efforts during this report period is \$21,949,730.85 (see Appendix A).

For this cycle, MSU has identified nearly \$131 million specific preservation projects and maintenance needs for our heritage buildings. The highest priority identified in the prior reporting cycle was to renovate MSU Bozeman's decommissioned original gymnasium into an academic classroom building that will be known as Romney Hall. This project received the necessary legislative funding in the 2019 legislative session and is currently under construction. The anticipated maintenance and stewardship figure includes the \$32 million to renovate Romney Hall, which shall be watched for adverse effects.

Heritage Consultation Procedures

Heritage Determination and Consultation with SHPO
All the Montana University System entities are required to report on their heritage properties (which have been assigned Smithsonian numbers) and to consult with the State Historic Preservation Office (SHPO) for projects proposed for all buildings older than fifty years. (See Appendix B for a listing of all MSU properties equal to or greater than fifty years old.) Per MCA 22-3-424, Duties of State Agencies (2) agencies

MSU'S HERITAGE BY THE NUMBER

5 Historic Districts, which include:

- **63 Buildings**
- **19 Sites**
- **5 Structures**
- **4 Objects**

32 Individual Heritage Buildings (each has their own Smithsonian Number)

are to “identify and develop, in consultation with the historic preservation officer, methods and procedures to ensure that the identification and protection of heritage properties and paleontological remains on lands owned by the state are given appropriate consideration in state agency decision making.” This applies to all the campuses and to all proposed construction – whether managed by MSU Campus Planning Design & Construction (CPDC) or the State’s Architecture & Engineering (A&E) Division of the Department of Administration.

Recommendation

MSU will review the list of buildings that will be fifty years or older at the time of planned construction activity, and establish a system to ensure that MSU consults with SHPO at the beginning of said planning. Consultation with SHPO is intended to be formal – in writing and documented.

Many state agencies misunderstand the requirements of the State Antiquities Act, forgoing consultation altogether or initiating it too late in the planning, design, and construction process. MSU will work harder to disseminate the need for formal consultation for projects on all MSU campuses, and will commit to formal consultation prior to project initiation, for both known heritage buildings and those that have attained fifty years of age.

MSU Preservation Policies

MSU’s Heritage Building and Site Policy; Board of Regents Policy During the 2018 preparation of this report, it was ascertained that MSU’s two documented policies relating to treatment of heritage properties have not been updated. SHPO has recommended that MSU “update or nullify” this policy, which “...undermines the Montana State Antiquities Act in two ways. Subsection (1) entitles the University System to prevent the Historic Preservation Review Board from evaluating a property for its heritage values and adding would-be heritage properties to the state inventory. Secondly, the policy outlines a notification process that bypasses meaningful and timely consultation conducted in early planning stages that the Antiquities Act specifies.”¹

In the above cited letter, SHPO closes with the following elucidation: “The Antiquities Act does not authorize SHPO to prevent or halt state projects. The Act calls on agencies to solicit SHPO input to avoid incompatible modifications...We believe meaningful consultation

¹ Pete Brown, MHSP, to Mr. Jason McGimpsey at MSU-Billings, April 26, 2018. Letter provided to Cushing Terrell by Pete Brown.

between the University System and SHPO is always in the long-term interest of the building.”²

Recommendation

MSU should update their Heritage Building and Site Policy and the Board of Regents should update their Policy 1003.5 accordingly, in order to prevent misunderstandings related to projects planned for heritage properties on all MSU campuses.

An MOA (Memorandum of Agreement) among SHPO, State A&E, and MSU would be an ideal vehicle to rectify the above two issues, by formalizing a compliant procedure for all MSU campuses and MAES buildings.

Fort Assinniboine National Register Boundary Increase

The Fort Assinniboine National Register historic district boundary increase was formally listed on April 2, 2018. The increase adds some of the MSU agriculture experiment buildings as contributing resources to the historic district. As with the Fort Ellis historic district, each of these large areas has only one Smithsonian number, thus the individual resources are not tracked as part of this reporting process.

All work proposed for these properties requires SHPO consultation. The preparation of an individual property record form for each individual resource would facilitate the tracking, management, and consultation for each resource. It is conceivable that the MSU history and/or architecture departments could spearhead this effort – giving the students valuable real-life experience at a reduced cost to the university.

Use of Obsolete Properties

MAES includes properties from prior historic forts – Fort Ellis and Fort Assinniboine. The buildings do not always coincide with the changing needs of the university and the improved methods for agricultural and research work. For instance, where some of the prior officers’ quarters continue to function as residences, the Post Library and the Guard House at Fort Assinniboine (where the Northern Agriculture Research Center is located) were used for offices and lab testing, until vacated in June 2011. This coincided with the construction of a new NARC headquarters building east of the fort. These two buildings are generally in good condition, yet unoccupied buildings fall more easily into disrepair. It is possible that MSU could consider transferring some of the Fort Assinniboine properties to the Montana Historical Society (MHS) and the Fort Assinniboine Preservation Association (FAPA), with provisional funding for maintenance.

² Ibid.

Recommendation for Meeting about the Ag Stations

During the last reporting cycle, SHPO recommended that MSU and Ag Station leaders meet with the Historic Preservation Review Board and SHPO to discuss the preservation and continued use of the agriculture experimental stations before future conflicts arise. This statement was prompted by the looting at Fort Ellis in 2015.

The crux of this issue is that two of the agriculture stations are on historic forts that also have the potential for archaeological findings – Fort Ellis and Fort Assinniboine – as identified in their respective documentations (Montana Cultural Resources Information System Form from 2000 and National Register Nomination from 2017). With the expansion of the Fort Assinniboine registration – and the concomitant increase from 19 to 42 contributing resources – this meeting is all the more essential.

Grant Opportunities

The State of Montana now has more ample grant funds to allocate to historic preservation projects than in prior years. The Fort Assinniboine Preservation Association has applied for a grant from Montana's Rural Heritage Grant program. Additional funding will soon be available from the Montana Historic Preservation Grant (MHPG) Program, which was established in 2019 as a result of Senate Bill 338. "The MHPG Program is designed to support public or private entities with the preservation of historic sites, historical societies, or history museums through grant funding."³ This new program will likely prove a boon to historic sites throughout the state for years to come. The Montana Historical Society website also provide a list of primary funders for preservation grants, which provides opportunities for a variety of owner, property, and project types.

³ Comdev.mt.gov, accessed February 12, 2020.

Acknowledgments

Cushing Terrell (CT) has relied upon the facilities personnel at MSU's various campuses to compile the information required for this report. The following individuals, listed alphabetically, have been helpful in providing the data and insights needed to prepare this report:

- ~ John Boughton, National Register Coordinator - MSHS
- ~ Peter Brown, Interim State Historic Preservation Officer - Montana State Historical Society (MSHS)
- ~ Chris Eagan, Director of Facilities Services - MSU-Billings
- ~ Roger Hybner, Research Associate - NARC
- ~ Candace Mastel, Campus Planner - Campus Planning, Design & Construction (CPDC)
- ~ Emi Smith, Administrative Associate - NARC
- ~ Eva Stokes, Facilities Services Office Manager - MSU-Northern
- ~ Dan Ulmen, Facilities Services Director - MSU-Northern

INTRODUCTION

General

Montana State University (MSU) submits this report in accordance with the Montana Antiquities Act (MCA 22-3-421 to 22-3-442) requirement for reporting on the stewardship of heritage properties owned by the state. This is the fifth cycle for reports that are due to the preservation review board on the first Tuesday in February of every even-numbered year. This statute outlines the information required in this report.

The following is the applicable excerpt from the legislation that addresses the reporting requirements:

Section 3. Section 22-3-424, MCA, was amended to read:

"22-3-424. Duties of state agencies. State agencies, including the Montana university system, shall:

1. in consultation with the historical society adopt rules for the identification and preservation of heritage properties and paleontological remains on lands owned by the state to avoid, whenever feasible, state actions or state assisted or licensed actions that substantially alter heritage properties or paleontological remains on lands owned by the state or, in the absence of such rules, act in compliance with rules adopted under 22-3-423;
2. identify and develop, in consultation with the historic preservation officer, methods and procedures to ensure that the identification and protection of heritage properties and paleontological remains on lands owned by the state are given appropriate consideration in state agency decision-making;
3. deposit in the historic preservation office all inventory reports, including maps, photographs, and site forms, of heritage properties and paleontological remains; and
4. pursuant to 22-3-422(6), provide to the preservation review board on the first Tuesday in February of every even-numbered year the following information:
 - (e) a list of the heritage properties managed by the agencies as those properties have been identified pursuant to this section;
 - (f) the status and condition of each heritage property;
 - (g) the stewardship efforts in which the agencies have engaged to maintain each heritage property and the cost of those activities;
 - (h) a prioritized list of the maintenance needs for the properties; and
 - (i) a record of the agencies' compliance with subsections (1) and (2)."⁴

⁴ Authorized print version of Senate Bill 003, of the 62nd Legislature.

Montana State University consists of four campuses – in Bozeman, Billings, Great Falls, and Havre - and the Montana Agricultural Experiment Station (MAES) Research Centers in Sidney, Huntley, Corvallis, Moccasin, Havre, Conrad, Kalispell, and Bozeman, as well as the Extension Service outlets throughout the state.

Section 22-3-421 defines heritage property “as any district, site, building, structure, or object located upon or beneath the earth or under water that is significant in American history, architecture, archaeology, or culture.” These are properties for which both MSU and the State Historic Preservation Office concur are heritage. When not in agreement as to the heritage status of the property, it is considered “unresolved.”

Methodology

MSU-Bozeman engaged Cushing Terrell (CT) to prepare this biennial report for the 2018-2019 cycle. MSU Campus Planning, Design & Construction (CPDC) staff has shared records with CT, given them access to the facilities planners at MSU-Billings and MSU-Northern, and given FCA (Facility Condition Assessment) data and project costs. To supplement and confirm this information, CT has visited the campuses at Billings, Bozeman, and Havre, and the agriculture station at Fort Assinniboine to survey all the buildings equal to or more than fifty years old. These buildings were reviewed for integrity, condition, and status.

SHPO graciously provided national register nominations and eligibility paperwork for heritage buildings on all campuses and agriculture stations. CT has also coordinated with SHPO, to ascertain project consultations and to identify which forms should be submitted for this report. No Property Record Forms have been updated for this reporting cycle, as no properties (with Smithsonian numbers) have experienced a level of integrity change since the last reporting cycle.

This report follows the order and content stated in the MCA 22-3-424 (4), and has been reviewed by MSU’s department of Campus Planning, Design & Construction.

Reporting

MSU has submitted a Heritage Property Stewardship Report for each reporting cycle, beginning as mandated in 2012. With each reporting cycle, MSU strives to improve their heritage treatment and reporting. The following are potential avenues for improved ease and accuracy of reporting: Automatic notification for heritage buildings; documentation and evaluation; and national register signage.

Documentation and Evaluation

MSU’s campuses contain a number of buildings built more than fifty years ago. Some might be heritage buildings; others are insignificant support utilitarian structures. In January 2018, a boundary increase for the National Register Historic District of Fort Assinniboine was

22-3-424 (4)(A)

MONTANA STATE UNIVERSITY RESOURCES

General

Montana State University is comprised of four main campuses – at Bozeman, Billings, Great Falls College, and Havre (Northern) – and the following research centers, listed here to increase familiarity with them. These centers are referred to as “ag stations” that are part of the College of Agriculture and Montana Agricultural Experiment Station (MAES):

- ~ CARC: Central Ag Research Center (in Moccasin)
- ~ EARC: Eastern Ag Research Center (in Sidney)
- ~ Fort Ellis, approximately 3.5 miles east of Bozeman
- ~ HORT: Bozeman Horticulture Center at Bozeman Agricultural Research and Teaching Farm (BART)
- ~ LUTZ: Lutz Farm (11 miles northeast of Bozeman)
- ~ NARC: Northern Ag Research Center (at Fort Assinniboine in Havre)
- ~ NWARC: Northwestern Ag Research Center (in Kalispell)
- ~ SARC: Southern Ag Research Center (in Huntley)
- ~ VET: Bozeman Veterinary
- ~ WARC: Western Ag Research Center (in Corvallis)
- ~ WTARC: Western Triangle Ag Research Center (in Conrad)

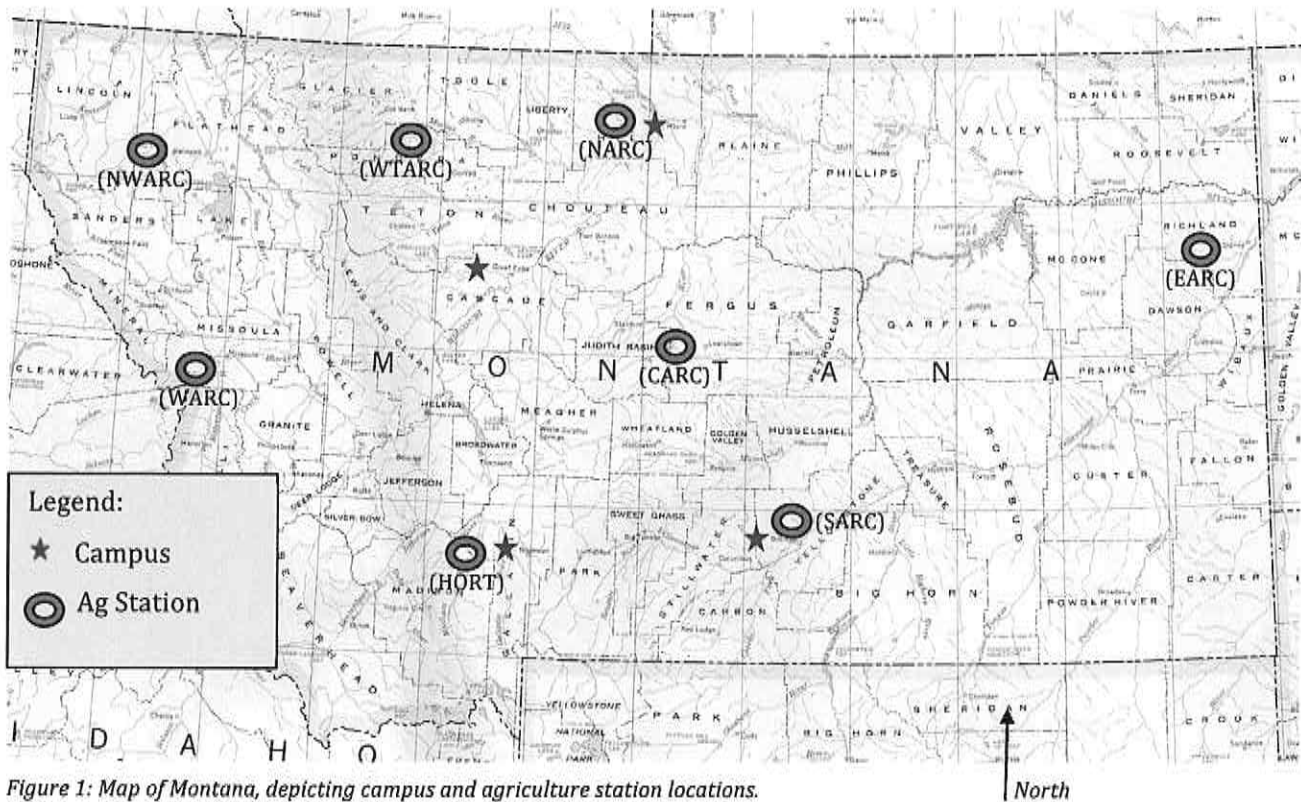


Figure 1: Map of Montana, depicting campus and agriculture station locations.

approved. This nomination yields valuable information about forty-two resources at this fort where the Northern Agricultural Research Center is located.

MSU has been fortunate to have others document the heritage buildings, because funding to conduct these surveys has not been available. MSU has instead focused on maintaining the resources under their care. MSU understands that greater knowledge about their buildings will result in more enlightened care and is open to ideas that SHPO might provide as to how to develop a strategy to completion the documentation of the campuses and agriculture stations (MAES).

MSU-Billings Campus' Science Building

MSU appreciates and shares SHPO's congratulations on having the Science building deemed a heritage property. The final Property Record Form for the Science Building was submitted in October 2019 and assigned a Smithsonian number.

The research centers are an integral part of the origin and definition of this land grant institution, in fulfilling the agricultural research component explicitly stated in the establishment of (what became known as) MSU in 1893. Some of the centers are located on old private ranchland, two on old forts, and one (SARC) is an old BLM demonstration farm.

Much of MSU-Bozeman's main campus was listed as a National Register Historic District in 2013, McMullen Hall at MSU-Billings was listed in the National Register in 2015, and Fort Assinniboine was listed as a historic district in 1989. The latter district was expanded in April 2018, to include a total of forty-two contributing resources.

Table 1 on the following page contains the Smithsonian Trinomial reference number, building or site name, and date of construction of all documented heritage properties on the MSU campuses. This table has been altered to reflect the following:

1. MSU-Billings: 2018 demolition of the Academic Support Center.
2. MSU-Billings: 2019 determination of the Science Building as a heritage building.
3. MSU-Northern: 2020 determination of Pershing Hall as a heritage building.

The green highlighting references the MSU Bozeman historic district; light blue identifies the MAES properties; orange MSU-Northern; and purple represents MSU-Billings. Great Falls College MSU has no heritage properties to report upon, since no construction began at this two-year vocational technical center until 1975. The University of Great Falls is not part of the Montana University System; it is a Catholic non-profit four-year school. These same properties are included – in the same order, yet more comprehensive in scope – in Appendix A: Condition and Stewardship Spreadsheet.

TABLE 1: Heritage Properties of MSU Campuses

Smithsonian Number	Building Name	Construction/Occupancy Date
24GA1893	MSU Historic District (Bozeman)	1893-1967
	MSU Campus Cultural Landscape (site)	1893-1967
	Danforth Park Iris Garden (site)	1926; 1952
	Lewis & Clark Field (site)	1915
	Harrington Park Duck Pond (site)	1914
	Romney Green/Romney Oval (site)	1920
	"Untitled" bronze sculpture (object)	1960
	Gatton Field Gate (object)	1930
	Territory-State Dedication Marker (obj.)	1914
24GA0336	MSU Bozeman - Hapner Hall	1959
24GA1629	MSU Bozeman - Heating Plant	1922
24GA1681	MSU Bozeman - AJM Johnson Hall	1954
24GA1763	MSU Bozeman - Strand Union Building	1939;1957;1967; etc.
24GA1796	MSU Bozeman - Danforth Chapel	1952
24GA1797	MSU Bozeman - Langford Hall	1960
24GA1798	MSU Bozeman - Reid Hall	1959
24GA1799	MSU Bozeman - McCall Hall	1952
24GA1871	MSU Bozeman - Hamilton Hall	1910
24GA1872	MSU Bozeman - Hannon Hall	1955
24GA1873	MSU Bozeman - Hedges Complex	1965-1967
24GA1874	MSU Bozeman - Herrick Hall	1926
24GA1876	MSU Bozeman - Johnstone Center	1955
24GA1877	MSU Bozeman - Lewis Hall	1923
24GA1878	MSU Bozeman - Linfield Hall	1909;1953
24GA1879	MSU Bozeman - Montana Hall	1898
24GA1880	MSU Bozeman - Plew Building	1952
24GA1881	MSU Bozeman - Atkinson Quadrangle	1934
24GA1882	MSU Bozeman - Renne Library	1949;1960
24GA1883	MSU Bozeman - Roberts Hall	1922
24GA1884	MSU Bozeman - Romney Hall (Gymnasium)	1922
24GA1885	MSU Bozeman - Roskie Hall	1967
24GA1887	MSU Bozeman - Taylor Hall	1894
24GA1889	MSU Bozeman - Traphagen Hall	1919
24GA1892	MSU Bozeman - Wool Laboratory	1947
24GA1894	Ft. Ellis MT Ag Experiment Station	1930
24GA0352	Ft. Ellis Military Site - Archaeological	1867-1886
24HL0329	Fort Assinniboine/NARC	1879-1967
24JT0162	Central MT Ag Experiment Stn, Moccasin	1907
24MA0262	Red Bluff Stage Stop (Isaacs/Wann Res.)	1880 (burned 2006)
24HL1382	MSU Northern - Gymnasium	1955
24HL1654	MSU Northern - Pershing Hall	1932
24YL1860	MSU Billings - Apsaruke Hall	1957
24YL1861	MSU Billings - P.E. Building (Alterowitz)	1961
24YL2054	MSU Billings - McMullen Hall	1935
24YL2220	MSU Billings - Science Building	1947

22-3-424 (4)(B)

PROPERTY STATUS AND CONDITION

General

The status and condition of each of the properties with Smithsonian numbers is included in the table in Appendix A: Condition and Stewardship Spreadsheet.

Montana State University maintains databases to track work required and work completed on properties. They have a substantial department of in-house expertise to work on all the buildings of the main campuses. As a result, the buildings are generally in good condition. We have used the condition definitions – for excellent, good, etc. – as defined by SHPO in “Montana State-Owned Heritage Property Reporting Form Instructions and Definitions.” While MSU dedicates a lot of time and energy to routine maintenance of their buildings, few are considered to be in “excellent” condition, since this implies that no maintenance is required.

MSU-Bozeman

Condition, Integrity & Status

The integrity, status, and condition of the MSU-Bozeman buildings is similar to those listed in the prior reporting cycle. One building’s condition has been downgraded to fair condition. Two buildings have been downgraded in integrity, to reflect corrections in the impact of additions or the replacement of original buildings. One modification in status stems from a pending design/construction project proceeding without formal SHPO review.

Condition

One modification in building condition is worth noting, as it is a continuation of a decline noted in the 2018 report:

Danforth Chapel (24GA1796

Danforth Chapel has been downgraded from good to fair condition. Wood fascia and siding boards are rotting and causing the paint to flake off.

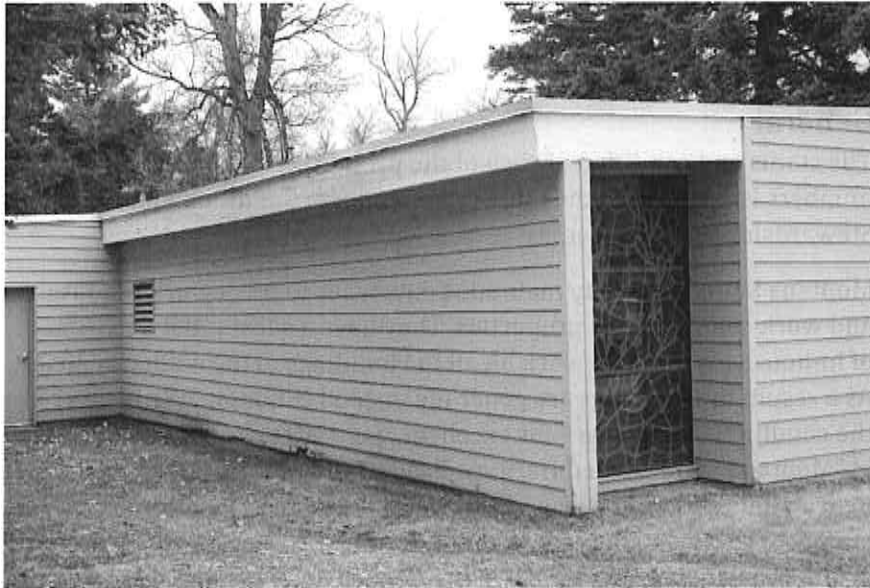


Figure 2: MSU-Bozeman's Danforth Chapel. Photograph taken January 16, 2020. The wood fascias and siding boards are rotten, causing the paint to flake off. This photograph depicts a common condition on this building.

Integrity

Three modifications in building integrity reflect a closer examination of prior building additions and window replacements, as follows:

Strand Union Building (24GA1763)

The Strand Union Building has been downgraded from a condition of excellent to fair integrity. This correction reflects the impact of the overpowering additions to this once compact Jacobethan Revival building. The current building is approximately 7 times its original (1940) size, with additions constructed in 1957, 1967, 1971, 1983, and 2008.



Figure 3: MSU-Bozeman's Strand Union Building. Photograph taken January 26, 2020.



Figure 4: MSU-Bozeman's Traphagen Hall. The windows have been replaced. Photograph taken January 26, 2020.

Traphagen Hall (24GA1889)

Traphagen Hall has been downgraded from a condition of excellent to good integrity. This correction stems from the replacement of the original windows in 1986.

The reduced list of buildings with "excellent" integrity, below, reflect the changes noted above:

- ~ Reid Hall
- ~ McCall Hall
- ~ Hannon Hall
- ~ Herrick Hall
- ~ Atkinson Quadrangle
- ~ Wool Lab

The above buildings have not been modified by additions or the alteration of any of their significant details.

The remainder of the buildings have "good" integrity; most of them have been modified with additions necessitated for programmatic use, the replacement of original windows, or additions that allow for the massing of the original building to be clearly ascertainable.

Status

Romney Gymnasium/Hall's (24GA1884) integrity status has been changed to "Watch," to reflect the limbo of incomplete consultation with SHPO. During the early design stages of converting this gymnasium

building into a classroom building, MSU invited SHPO to participate in several review meetings held on campus. However, MSU did not initiate formal review with SHPO and has proceeded with the design and construction of the building.⁵ Much of the interior will be demolished to provide for handicapped accessibility in what had been a multi-and-half-layered flooring system, and the exterior (original) south stair hall has been removed. The primary concern at this point is the status of exterior integrity that would be supported by retention of the original steel windows.



Figure 5: Romney Gym, showing where the original south stairs and enclosure have been removed. Photograph taken January 26, 2020.

Adverse Effects

The design for Romney Hall will be monitored for adverse effects.

Nominations

During this reporting cycle, no additional heritage properties were submitted for review by the State Historic Preservation Office, and no heritage properties were lost.

⁵ This lack of continuity is due, most likely, to change in personnel at MSU's office of Campus Planning, Design & Construction.



Figure 6: Fort Ellis, historic photograph. Image provided by NPS.

MSU-MAES

Condition, Integrity & Status

Fort Ellis Ag Experiment Station

The integrity, status, and condition of the agriculture buildings at Fort Ellis is unchanged since the last reporting cycle.

Fort Ellis Military Site

The integrity, status, and condition of the military buildings at Fort Ellis is unchanged from the last reporting cycle. There have been no other site disturbances since the last reporting cycle, and MSU's Department of Sociology and Anthropology documented the disturbed area.

Fort Assinniboine

The integrity and condition of the buildings at the resources at Fort Assinniboine range from good to fair. MSU and the Ag Station no longer have offices or labs in the buildings, thus they use only a few of the barn buildings. A few of the Bachelor Officers' Quarters (Resource 1) and the Duplex Officers Quarters (Resource 2) are used as residences for the Ag Station personnel. The remaining fort buildings are used and monitored only by the Fort Assinniboine Preservation Association. The most recent



Figure 7: Fort Assinniboine's Double Cavalry Stable Guard and Shop (Rec. 10). Photograph taken January 22, 2020.

repair work performed on the buildings has been in response to weather-caused damage.

The Field Officers Stable #2 (c.1880), which weathered a 2015 storm that collapsed its roof and the top portions of the masonry walls, has since been demolished. After this 2015 storm, insurance settlements funded the reroofing of the three Double Cavalry Stable Guard and Shop buildings (Rec. 10, 11, and 12), constructed originally in 1905.

In addition to replacing the slate on the main gable roofs of these three buildings, the sheet metal roofing on the stable, extant front porch of Resource 11 was replaced.



Figure 8: Fort Assiniboine's Double Cavalry Stable Guard and Shop (Res. 11), constructed in 1905. Both the slate roofing of the front gable roof and the standing seam metal of the front entry porch roof were replaced. Double Cavalry Stable Guard and Shop (Res. 12) is visible in the background. Photograph taken January 22, 2020.

Red Bluff Stage Stop

The integrity, status, and condition of the Red Bluff Stage Stop continues as "failed" since its 2006 loss to fire. A commemorative bronze plaque remains at the site, as reported in 2006.

Central Ag Research Center

The Farmstead House, built in 1908 a year after the ag station was established, is in good condition. The rest of the buildings remain in fair to good condition. Both large barns (dated 1911 and 1922) were renovated in 2009.



Figure 9: Farmstead House (Building #4403) at the Central AG Research Center in Moccasin. Photograph provided by MSU (powerpoint), dated 2011.

Adverse Effects

There are no known adverse effects to report for MSU-MAES.

Nominations

The Fort Assinniboine Historic District was expanded in April 2018.

MSU-Northern

General

The State of Montana legislature established MSU-Northern as the Northern Montana Agriculture and Manual Training School in 1913, although money was not authorized for operation until 1929. Soon after, in 1931, the Northern Montana College was opened in a renovated pumping station (renamed East Hall, which was demolished in 1979) on land set aside for the campus. The site is distinguished by rolling hills – which the buildings respond to – and handsome masonry buildings that have come to define the school. The iconic buildings on campus are as follows:

- Pershing Hall (completed in 1934; constructed of bricks salvaged from Fort Assinniboine)
- Donaldson Hall (completed in 1936)
- Cowan Hall (completed in 1953)
- Armory Gymnasium (completed in 1956, from Ozzie Berg design)

The rest of the campus has been infilled with mostly red brick buildings to match those of the earlier construction, with the exception of the concrete Metals Technology building of 1945.

MSU-Northern's website demonstrates the pride in their buildings. A historic timeline depicts the origin and growth of this strong technical school. Historic images of the buildings support the succinct history provided. Nearly every building has an individual page explaining its specific history, use, and design. In addition to the classroom buildings, dormitories and staff housing are more than fifty years old, with some moved from Chester, and others design by Ozzie Berg and built by students. The rich history of these buildings is buttressed by their excellent integrity and good condition.

The campus is well cared for, despite a small facilities staff.

MSU-Northern has two documented heritage buildings, and has been encouraged to consult with SHPO when planning work on any building on campus, as most are at least fifty years old. (See list in Appendix B.)

Condition, Integrity & Status
Condition



Figure 11: 1955 construction photograph of the MSU-Northern armory gymnasium designed by Oswald Berg.



Figure 11: MSU-Northern's armory gymnasium, primarily at the right. The two left wings have been heavily modified. Photograph taken January 23, 2020.

MSU-Northern's gymnasium is in good condition. The gym's roof has been repaired, yet needs to be replaced. The wood at the south wood curtain wall is becoming degraded in response to heavily worn paint; some of the wood is rotting. Pershing Hall is in fair condition; exterior preservation work is planned for this next reporting cycle.



Figure 12: MSU-Northern's gymnasium - south curtain wall of wood. Photograph taken January 23, 2020.



Figure 13: MSU's Northern gymnasium - close-up of rotten wood at south curtain wall. Photograph taken January 23, 2020.

Integrity

The integrity of both the gymnasium and Pershing Hall is good. Two wings that extend from the gymnasium proper have been heavily modified in roof form and exterior materials. The wings have been deemed non-contributing, while the building is still significant under

Criterion C for its design.⁶ Pershing Hall's good integrity reflects that while its massing and exterior are historic, the original windows have been replaced with vinyl windows, the brickmolds have been clad with sheet metal, and entry doors replaced with aluminum storefront units.

Status

The status of the gymnasium remains satisfactory. Pershing Hall is considered to have an improving status, reflecting the upcoming exterior restoration work that has been funded.

Adverse Effects

There are no adverse effects to report for MSU-Northern.

Nominations

A Property Record Form for Pershing Hall was submitted to SHPO in December 2019. Based on this information, SHPO classified Pershing Hall as a heritage building and assigned it a Smithsonian number.



Figure 14: MSU-Northern's Pershing Hall, deemed a heritage resource in January 2020. Photograph taken January 23, 2020.

Discovery of Buildings More than Fifty Years Old

During the course of this reporting's campus-wide survey, more buildings were ascertained to be fifty years of age or older. They have been added to the list in Appendix B.

1. Morgan Hall by Oswald Berg (1957)
2. Student Union Building by Max Kuhr (1958)

⁶ Diana J. Painter, *Montana Post-World War II Architectural Survey and Inventory*, prepared for the Montana State Historic Preservation Office, December 2010, page 101.

3. Advanced Fuels Building (1951 and 1953)
4. New Physical Plant by Max Kuhr (1966)
5. Electronics Building by Kuhr and Davidson (1968)
6. Seven single-story wood-frame residences (Pre-1957)
7. Two campus houses designed by Oswald Berg (1957-1960)
8. Married Student housing – 2 (1960)
9. Married Student Housing – 3 (1961)

Additional buildings that have turned fifty within this reporting cycle are included in Appendix B as well.



Figure 15: MSU-Northern, with Morgan Hall in the center, an Ozzie Berg –designed residence at right, and Donaldson Hall in the background. Photograph taken January 12, 2020.

MSU-Billings

Condition, Integrity & Status

The integrity, status, and condition of the MSU-Billings' buildings is similar to those listed in the prior reporting cycle, with the following exceptions:

1. The Academic Support Center was demolished in 2018. MSU-Billings did not formally consult with SHPO on this project. The building was located in a prominent central space between Rimrock Hall on the north and Cisel Hall on the south. The Academic Support Center has been removed from this reporting process.
2. The 1947 Science Hall has been added to the heritage list. State A&E had the building documented in 2019 and SHPO assigned it a Smithsonian number. The original building is in good condition and has good integrity. The 1977 addition is currently being supplanted with a sizable addition, representing "...a nearly 70% increase in square footage..."⁷ Groundbreaking for this \$15m addition was concurrent with submittal of the drawings to SHPO. Thus SHPO did not comment of the design, because this action was considered foreclosure of the consultation process. The overpowering size and mass of the addition shifts the building into the endangered status.
3. The remaining three buildings continue to be ranked "good" for integrity and condition and "satisfactory" for status.



Figure 16: MSU-Billings Science Building's addition under construction; view from the southeast. Photograph taken January 12, 2020.

⁷ MSUB Foundation, "Yellowstone Hall: The New Science and Allied Health Professions Building," c.2018 promotional brochure.

Petro Hall, constructed in 1966, at MSU-Billings reached the fifty-year mark in 2016. Any work planned for this 147,664-square-foot dormitory should be preceded by SHPO consultation. SHPO can then ascertain if it is a heritage property. If so, a Smithsonian number will be assigned and formal consultation will be required for proposed projects. It is our understanding that no exterior changes are planned, but that “Interior finishes and floor-floor renovations as part of current Auxiliaries master plan” are being completed.⁸



Figure 17: MSU-Billings' Petro Hall, constructed in 1966. Photograph (from the northeast) taken January 12, 2020.

Adverse Effect

SHPO deemed demolition of the Academic Support Center (SITS 24YL1860) as an adverse effect and accepted MSU's proposed mitigation, which included an interpretive sign describing the post-WWII building phase at MSU-Billings, to be installed at the Physical Education Building. Such a sign has not been installed. Other mitigation items – the Historic Property Record Form, original architectural drawings, photo documentation, and a 3D scan of the building – were to be catalogued by MSU-Billings Library's Special Collections.⁹ In the course of this report preparation, the new Director of Facilities at MSU-Billings was notified of this agreement.¹⁰

⁸ Jason McGimpsey, MSU-Billings, email to Lesley Gilmore (CTA) January 9, 2018.

⁹ Pete Brown, MSHP, to Mr. Jason McGimpsey at MSU-Billings, April 26, 2018. Provided to Cushing Terrell by Pete Brown.

¹⁰ Lesley M. Gilmore, email to Chris Eagan at MSU-Billings and Candace Mastel at MSU-Bozeman, sent February 3, 2020. The email included SHPO's April 26, 2018 letter to Jason McGimpsey, the prior Facilities Director at MSU-Billings.



Figure 18: MSU-Billings, site where the Academic Support Center stood. Petro Hall is to the left and Rimrock Hall is to the right, flanking the Student Union Building. Photograph taken January 12, 2020.



Figure 19: MSU-Billings' Foundation House, constructed in 1948. Photograph taken January 12, 2020.

Discovery of Buildings More than Fifty Years Old

During the course of this reporting's campus-wide survey, more buildings were ascertained to be fifty years of age or older. They have been added to the list in Appendix B.

1. Liberal Arts Building (1969-1970)
2. Library (1968)
3. College of Education Building (1954, with substantial renovation/addition c.1990)
4. McDonald Hall (1952, per Cadastral Map)
5. Alumni/Guest House at 2712 Normal (1930)
6. William R. Lowe Daycare and Enrichment Center at 2630 Normal (1936)
7. Foundation House at 2615 Virginia Lane (1948)
8. Student Housing Townhomes at 32 Mountain View (1970)
9. KEMC Radio Station Building at 406 Marbara Lane (1970)
10. Chancellor's Residence at 432 Silver (1968)

As MSU-Billings begins planning projects for the above buildings – and the others of age and heritage status – they are encouraged to initiate consultation with SHPO.

MSU-Great Falls

The oldest building at the MSU-Great Falls campus was constructed in 1975. In 2025, when the building is fifty years old, MSU-Great Falls should consult with SHPO to review its heritage status and any work proposed on the building.



Figure 20: The sprawling building complex constructed for MSU-Great Falls in 1975. Rendering courtesy of <http://gfcmsu.edu/about/history/index.html>, accessed January 15, 2018.

22-3-424 (4)(C)

HERITAGE SITE STEWARDSHIP EFFORTS

General

Montana State University is a collection of state-owned buildings on campuses that are similar to towns and cities, in that they operate and maintain infrastructure. In addition to the typical infrastructure of refuse collection and recycling, parking and transportation systems and facilities, performance venues, heating and cooling, sewer and water, irrigation, tree maintenance, snow removal, outdoor public art and memorials, this includes generation and distribution of power. It is all encompassing and requires dedicated and trained design, facilities, planning, and maintenance staff.

MSU's maintenance philosophy is directed at preventing unexpected and catastrophic failure of building systems and components. Therefore, approximately half of the annual maintenance budget is comprised of preventive and corrective scheduled and major maintenance. The balance combines custodial (the day-to-day cleaning) and infrastructure and ground maintenance. University Services' mission is to keep the institution operational, comfortable, safe, and aesthetically appealing.

Stewardship efforts undertaken by the University to improve the status of state-owned heritage properties is demonstrated by the \$21,949,731 expended in managing the historic integrity and condition of the buildings (\$11,431,918 for administration and operations; \$5,738,707 for heritage restoration; \$25,370 for heritage reporting efforts; and \$3,396,103 for routine maintenance). All stewardship efforts increase the value of heritage properties by insuring continued safe and comfortable use of the buildings. This is often a delicate balance between embracing the historic significance of the building and providing sufficient code compliance. MSU has the good fortune of an expanding student population and the concomitant continued need for these public buildings it is entrusted with.

Specific heritage preservation and protection projects for which SHPO should have been consulted totaled \$5,738,707 (see Appendix A). Details on preservation projects for each campus and MAES are provided below.

MSU – Bozeman

General

As the flagship campus, MSU Bozeman has experienced sustained growth. Stewardship includes appropriate funding of building operations and administration. MSU Bozeman University Services calculated a multiplier useful in determining an average cost per gross square foot that covers general administration and operations. The

multiplier's variables include: Landscape & Grounds, Refuse Services, Utility O&M, Property Insurance and Custodial Services.

The greater the square footage, the greater the administration and operations costs. Consistent with the previous cycle, the three highest amounts for this report period – over one million dollars each – are buildings or complexes with intense utilization by students – often 24 hours a day, seven days a week.

Recent Projects at MSU-Bozeman

Hamilton Hall (24GA1871)

Hamilton Hall's roofing will be replaced with asphalt shingles to approximate the appearance of the original wood shingle roofing. At this time, proper ventilation will be incorporated to lessen the growth of icicles and interior plater damage from ice damming.

NAE

Herrick Hall (24GA1874)

Herrick Hall has been fitted with historically appropriate light fixtures, upgraded with more energy-efficient lamping. Classrooms have been upgraded, keeping the historic trim and flooring.

NAE

Johnstone Center (24GA1876)

The exterior of Johnstone Center has been repainted.

No consultation

Linfield Hall (24GA1878)

Classrooms within Linfield Hall have been renovated to meet modern needs, while retaining original trim and flooring. Original floors have been covered for sound attenuation purposes.

5/17/18 Unresolved

Montana Hall (24GA1879)

Montana Hall's upper floors have been made code compliant, and life safety increased, with the installation of a full-access stairway (to all levels) and elevator within the east portion of the building. This was accomplished without an addition to the building, but within an existing circulation and restroom area. This work also included the integration of gender neutral restrooms, interior painting, flooring, and fixtures. An exterior vestibule was added on the east side of the building where a prior canopy was removed.

8/17/17 interior add. imp. NAE

2/17/18 East Stairs Unresolved

Renne Library (24GA1882)

The atrium space was fitted with new appropriate energy-efficient light fixtures.

No Consultation

Roberts Hall (24GA1883)

The interior of Roberts Hall was improved with painting, door hardware modifications, and renovations to classrooms. The latter work included retention of original trim and flooring.

No Consultation

Traphagen Hall (24GA1889)

The interior of Traphagen Hall was repainted.

No consultation

MSU MAES

Fort Ellis Ag Experiment Station (24GA1894)

The 1931 residence (#1), designed by Shanley, Willson & Hugenin, benefited from SHPO consultation before the last reporting cycle. The planned demolition was cancelled and a historian documented – in a Montana Historic Property Record – the ag experiment buildings on site. The building remains on site and is used for storage until improvements can be made for habitation. A study was completed in 2017 to upgrade the residence for a station manager. The renovation of the building



Figure 21: Fort Ellis, Ranch House No. 1 (Building# 721), as designed by Shanley, Willson & Hugenin in 1931. Photograph provided by MSU (powerpoint).



Figure 22: Fort Assiniboine, Post Library (c.1889), previously used for offices by NARC. The building is now used as an interpretive center. Photograph taken January 22, 2020.

occurred during the previous reporting cycle (September 2016 and June 2017), hence is not included in the Stewardship Costs for this cycle. Work included installing new storm doors, exterior windows, interior flooring, and restroom fixtures. Asbestos was abated from the flooring.

Fort Assinniboine/NARC (24HL0329)

Some of MSU's oldest historic properties are located at Fort Assinniboine. Some of the prior fort buildings had previously been repurposed for agriculture experiment station use. Others have proved insufficient for modern use and experimentation. For instance, the original post library from 1889 served as the main agriculture station office until June 2011, when a new metal-sided office and seed laboratory was constructed. Other new buildings include the Upper Calving Barn and the Cattle Research Lab Building. As these newer buildings are constructed and functions relocated into them, the older buildings are vacated. Concomitant maintenance will likely decrease and the current condition range of fair to good will degrade.

Seven of the buildings are maintained by the Montana Historical Society and the Fort Assinniboine Preservation Association (FAPA): the three double cavalry stable guard/shops, the Ordinance Storehouse, Stable #4 Recreation Hall, the Officers' Amusement Hall, and the Post Library. Only one of the guard/shops (#11) is in good condition; with new roofing and a rehabilitated front porch. One is in poor condition; one in fair. The Recreation Hall is in fair condition. The Post Library is currently used as an interpretive center for FAPA; it is in fair condition.

As MAES vacates these buildings, a plan for shifting the care of them to the Montana Historical Society and FAPA should be investigated. Such an arrangement could include provision of some maintenance funding.



Figure 23: MAES Fort Assiniboine, Officers' Amusement Hall (Res. #6), as maintained in fair condition by FAPA. Photograph taken January 22, 2020.



Figure 24: Double Cavalry Stable Guard/Shop #11, with new roofing and a rehabilitated front porch. Photograph taken January 22, 2020.

Bozeman Area Research & Teaching (BART) Farm
MSU-Bozeman engaged a historian to document the historic Animal Sciences Farm at 2730 West Garfield Street in Bozeman. The documentation, completed December 31, 2014, determined that the property was not eligible for listing in the National Register of Historic Places. SHPO's records indicate that the ruling is "undetermined," indicating that its status is still unresolved.



Figure 25: MAES BART - the Girvin Farmhouse. May 3, 2012.

The 474-acre property includes the historic Stucky-Girvin Farmstead from the late 19th century, and more recent farm structures from 1968 through 2012. The Girvin farmhouse, garage, and barn were reroofed in 2012.

22-3-424 (4)(D)

MAINTENANCE NEEDS

General

MSU is a dynamic and expanding institution of higher education. The four campuses and MAES operations form one university, but each entity has some autonomy in managing their operational responsibilities. The institution's mission is the same for all campuses: to educate students, create knowledge and art, and serve communities by integrating learning, discovery and engagement. Stewardship of buildings, and by extension, preservation of facilities, is included in the University's missions, goals, and strategies.

MSU systematically tracks maintenance needs using MSU's FCI (Facilities Condition Inventory), a desktop computer application for collecting and tracking observable deferred maintenance needs. As a cyclical process, data is available on all state-funded buildings relative to their condition as well as the system and building components that require repair or replacement. Additionally, MSU-Bozeman's Campus Planning, Design and Construction (CPDC) maintains a Capital Project List that collects information on major maintenance projects such as roof replacements, building mechanical systems, as well as architectural preservation. All of this data is valuable and useful in preparing lists of priority projects for the Long Range Building Program (LRBP) reviewed by the State Legislature. For buildings that undergo an FCI assessment, their current FCI rating is included in the Condition and Stewardship Spreadsheet (Appendix A).

MSU-Bozeman

Project estimates for prioritized maintenance and stewardship needs are on the Condition and Stewardship Spreadsheet (Appendix A). A few of these projects are also high priorities in the Long Range Building Program submitted for Legislative review as part of the governor's budget; however, most are tracked in the Capital Projects Database as "needs" and have not undergone any planning. Most of the projects have a code compliance component. None of these buildings are endangered and the status of all are ranked "satisfactory." In descending order of priority, the project descriptions are as follows:

1. **Linfield Hall (24GA1878):** MDP and Branch Circuit Upgrades – MDP (Main Distribution Panel) south to panels and branch circuits.
2. **Hamilton Hall (24GA1871):** 3rd, 4th and Attic Floor Repairs – Repair the interior floor and wall systems on the upper levels of Hamilton Hall. A complete renovation of the upper levels is preferred if funding is available (See note: *Hamilton Hall (24GA1871): 3rd and 4th Floor Renovation*).

3. **Roberts Hall (24GA1883):** Window Replacement and Restoration – Replace/restore windows and components to improve energy efficiency and prevent water infiltration into building's interior.
4. **Herrick Hall (24GA1874):** Attic Renovation - Renovate to make the existing space assignable for academic and administrative use.
5. **Taylor Hall (24GA1887):** Envelope Repairs – Repair and repoint exterior masonry and repair foundation cracks to prevent water infiltration. Replace antiquated windows to improve energy efficiency.
6. **Traphagen Hall (24GA1889):** Roof Replacement – Replace existing roof components including deteriorated underlayment, insulation, and flashing; and upgrade snow/ice fall protection.
7. **Reid Hall (24GA1798):** Secondary Electrical Upgrades – Provide necessary upgrades to the electrical system to improve efficiency and provide code compliance.
8. **Reid Hall (24GA1798):** HV System Upgrades – Upgrade heating and ventilation systems to reduce maintenance costs, and improve efficiency and comfort of instructional spaces.
9. **Linfield Hall (24GA1878):** Transformer and MDP (Main Distribution Panel) Upgrades – Transformer to MDP north and south and MDP north to panels
10. **Montana Hall (24GA1879):** Fire Suppression and Alarm System Upgrades – Construct a fire suppression and alarm system to improve the life-safety and code compliance.
11. **Reid Hall (24GA1798):** Fire Suppression and Alarm System Upgrades– Construct a fire suppression and alarm system to improve life-safety and code compliance.
12. **Hamilton Hall (24GA1871):** 3rd and 4th Floor Renovation – Renovate 3rd and 4th floors as a continuation of the 1st and 2nd floor renovation in compliance with current building codes, upgrade all building systems, including floor structure, fire suppression, energy efficiency, accessibility improvements and new finishes. The renovation also provides opportunity to reprogram existing space for academic instructional space and offices in accordance with the goals of the University's strategic plan and space policies.

Additional potential 2020/2021 Maintenance Projects, dependent upon sufficient funding and construction bids within budget, are as follows:

1. Hamilton Hall Roof Replacement
2. Hannon Hall Re-Roof
3. LJH Fire Suppression
4. Reid Hall Classroom Upgrades
5. PGC Classroom Upgrades
6. Linfield Hall Classroom Upgrades
7. Marsh Lab Sewer Upgrades
8. Lewis Hall Roof Replacement

9. Tietz Hall Roof Replacement

MSU MAES

As part of MSU, the MAES operations is unique in that it is not funded by student tuition dollars, mil levees, or special fees. It does receive Montana General Fund and Federal funding from the Hatch Act. These funds go towards their principal mission of agricultural and natural resource research and outreach. Their diverse agricultural activities fuel economic sectors, sustain rural communities and create state tax revenues through marketable commodities and jobs.

The biggest challenge facing MAES is the inherited array of buildings and structures that do not accommodate the research and farm equipment of current technologies. MAES provides facilities maintenance and building needs as part of MSU's Long Range Building Program process for appropriations. Each of the Research Centers and farm locations in Bozeman have buildings that may qualify as Montana Heritage buildings, but require funding for cultural resource evaluation, Montana Property Record submittals, and preservation efforts.

The priority maintenance needs for MAES sites and buildings are:

- ~ **Fort Ellis Military Site (24GA0352)** - security lighting and signage.
- ~ **Fort Assiniboine/NARC (24HL0329)** - projects to continue stabilization efforts and repair buildings and structures.

MSU-Northern

MSU-Northern Director of Facilities reports the intent to expend approximately \$160,000 on the exterior restoration of **Pershing Hall (24HL1654)**; \$350,000 for roof maintenance at **Cowan Hall (no assigned number for this 1949 iconic building)**, the **Metals Technology Building (1945)**, and another building. In addition, MSU-Northern has \$6m in authority for an interior renovation of Donaldson Hall (1936). Authority allows for MSU-Northern to raise the money to enact this project on this iconic campus building, located at the entry drive to campus. The building is currently off-line, due to code and accessibility-related deficiencies. In 2013, the exterior masonry of the building was restored for approximately \$400,000.



Figure 26: MSU-Northern's Donaldson Hall, constructed in 1936 as the second building on campus. The exterior of the building is in excellent condition and conveys a high degree of historic integrity Photograph taken January 23, 2020.

MSU-Billings

MSU Billings is maintaining their heritage properties by utilizing them in fulfilling the primary duties of the University. Their maintenance is incorporated into University planning and is funded appropriately. The priority preservation needs for the three buildings identified at MSU Billings are issues of standard building utilization and maintenance.

- ~ Due to the extensive use of the **Physical Education Building (24YL1861)**, it ranks highest for preservation needs and stewardship projects include replacing the roof, masonry restoration, replace settling concrete at building entrances,

replace the main gym floor and running track surface, and code and life safety improvements.

- ~ **Apsaruke Hall (24YL1860)** ranks second in priority and projects include replace the windows, masonry restoration, ceiling repairs and code and life safety improvements.
- ~ **McMullen Hall (24YL2054)** projects include accessibility improvements to building entrances and code and life safety improvements.

Great Falls College MSU

There are no heritage buildings on this campus.

22-3-424 (4)(E)

AGENCY COMPLIANCE / HERITAGE RESOURCE MANAGEMENT

General

MSU has undergone several changes in planning personnel, resulting in a break in continuity of knowledge about the requirements of the State Antiquities Act. Within the last year, MSU-Bozeman has hired a new Director of Campus Planning, Design & Construction and a new University Architect. They have not hired a preservation professional in their planning department, as previously considered. MSU-Billings has hired a new Director of Facilities. MSU-Northern, however, has a Director of Facilities who has recently engaged in SHPO review (for Pershing Hall's exterior preservation).

The consultations described below date to when the positions were filled.

MSU's Heritage Building and Site Policy; Board of Regents Policy

During the 2018 preparation of this report, it was ascertained that MSU's two documented policies relating to treatment of heritage properties have not been updated. Specifically, MSU's Heritage Building and Site Policy, originated in 2010, was scheduled for review every five years, yet has not been updated. In addition, the Board of Regents Policy 1003.5 (1985, updated 1999) for the "Designation of heritage property and removal, demolition, or substantial alteration of University System property" does not correspond to the review requirements stated in the Montana State Antiquities Act. Policy 1003.5 includes notification to SHPO of planned actions, providing fifteen working days for SHPO comment. The methodology does not concur with the MCA 22-3-424 (2) clause of the Duties of State Agencies which says that the state agency will: "identify and develop, *in consultation with the historic preservation officer*, methods and procedures to ensure that the identification and protection of heritage properties and paleontological remains on lands owned by the state are given appropriate consideration in state agency decisionmaking." (Italics added for emphasis.)

The above two documents have not been updated since the 2018 reporting cycle. SHPO has recommended that MSU "update or nullify" this policy, which "...undermines the Montana State Antiquities Act in two ways. Subsection (1) entitles the University System to prevent the Historic Preservation Review Board from evaluating a property for its heritage values and adding would-be heritage properties to the state inventory. Secondly, the policy outlines a notification process that

bypasses meaningful and timely consultation conducted in early planning stages that the Antiquities Act specifies.”¹¹

In the above cited letter, SHPO closes with the following elucidation: “The Antiquities Act does not authorize SHPO to prevent or halt state projects. The Act calls on agencies to solicit SHPO input to avoid incompatible modifications...We believe meaningful consultation between the University System and SHPO is always in the long-term interest of the building.”¹²

Recommendation

MSU should update their Heritage Building and Site Policy and the Board of Regents should update their Policy 1003.5 accordingly, in order to prevent misunderstandings related to projects planned for heritage properties on all MSU campuses.

An MOA (Memorandum of Agreement) among SHPO, State A&E, and MSU would be an ideal vehicle to rectify the above two issues, by formalizing a compliant procedure for all MSU campuses and MAES buildings. Emphasis should be placed on training the appropriate facilities managers at all campuses, to ensure timely and beneficial consultation with SHPO.

SHPO Consultations

General

Pete Brown of the MT SHPO confirmed the occurrence of the following consultations.¹³

MSU-Bozeman

American Indian Hall Construction

MSU submitted a design for this new building within the MSU Bozeman Historic District to SHPO, initiating formal consultation on July 15, 2019. SHPO approved the project on July 18, 2019. *No adverse effect.*

Hannon Hall (24GA1872) Reroofing Project

MSU submitted Hannon Hall reroofing documents to SHPO, initiating formal consultation on December 4, 2018. SHPO approved the work on December 4, 2018. *No adverse effect.*

Hamilton Hall (24GA1871) Reroofing Project

MSU submitted Hamilton Hall reroofing documents to SHPO, initiating formal consultation on July 15, 2019. SHPO approved the work on July 18, 2019. This work has not been performed as of February 2020. *No adverse effect.*

¹¹ Pete Brown, MHSP, to Mr. Jason McGimpsey at MSU-Billings, April 26, 2018. Letter provided to Cushing Terrell by Pete Brown.

¹² Ibid.

¹³ Pete Brown, emails to Lesley Gilmore, January 8, 9, & 13, 2019.

Linfield Hall (24GA1878)

MSU submitted plans for renovation of an interior room, south Lab 120, to SHPO, initiating formal consultation on May 17, 2018. SHPO has received no further communication from MSU on this project. It is conceivable that this project is still in the early design stages. *Unresolved.*



Figure 27: Montana Hall's newly constructed east exterior vestibule. Photograph taken January 26, 2020.

Montana Hall (24GA1879)

SHPO considers Montana Hall's recent project – East Exit Stairs and ADA Upgrades and Vestibule Addition - unresolved. SHPO reports reviewing and commenting on a storefront type addition to the building in May 2019, yet received no response from MSU. The vestibule has been constructed. *Unresolved.*

MAES – Corvallis (Western Agriculture Research Center)
Planning for demolition of a building at WARC remains unresolved, as of March 2, 2018.

MAES – Fort Assinniboine
There were no consultations for projects at Fort Assinniboine during this reporting cycle.

MSU-Billings

MSU-Billings Academic Support Building (24YL1859)

Demolition (in 2018) of the Academic Support Building was considered an adverse effect on the integrity of the campus. SHPO and the Director of Facilities agreed upon a mitigation plan, which has now been shared with the new Director of Facilities.

MSU-Billings Science Building (24YL2220)

MSU-Billings' Facilities Department leadership changed during the design phase for a large addition to the historic Science Building. Groundbreaking occurred before MSU-Billings submitted the design drawings to SHPO, thus SHPO did not review them, as it would not result in productive consultation. The new Director of Facilities has been apprised of the requirements of the State Antiquities Act.

MSU-Northern

MSU-Northern is in the beginning stages of planning an exterior restoration of Pershing Hall. In anticipation of this work, MSU-Northern engaged a consultant to prepare a Montana Historic Property Record for the building.¹⁴ SHPO conferred Smithsonian number 24HL1654 to the building. In December 2019, MSU-Northern submitted preliminary design drawings to SHPO, initiating formal consultation. *In process.*



Figure 28: MSU-Northern's Pershing Hall, originally constructed in 1932. Photograph taken January 23, 2020.

Efforts to Identify Potential Heritage Properties

The preparation of this report includes surveying of several campuses of ag stations during each cycle. At this time, buildings older than fifty years old are identified through MSU's database and other research repositories. During the next cycle, the buildings at the ag stations, including Fort Ellis, will be evaluated.

¹⁴ The Montana Property Record Form for Pershing Hall was prepared by Jillian Allen of the Havre/Hill County Historic Preservation Commission and Becki D. Miller of 3 Point Architects.

Heritage Property Management Training

MSU does not provide heritage property management training. This is one of the major challenges in identifying, evaluating, reporting, and protecting our state-owned heritage properties. Funding for such a position has not been available to MSU, given the many demands upon our professional staff.

APPENDICES

A: MSU Heritage Property Condition and Stewardship Spreadsheet

B: List of MSU Buildings 50 Years of Age and Older

C: Individual Heritage Property Forms

~ None

Page left intentionally blank.

Appendix A
CONDITION AND STEWARDSHIP SPREADSHEET
MONTANA STATE UNIVERSITY

Institutional Identifier Number	Civil Identifier	Building or Site Name	Gross Square Feet	Subject Use	Current Use	NUS or NHPZ Status	Preserv. Integrity	Program Status	Responsibility	Stewardship Efforts and Costs						
										Heritage Resources/Documentation Project Activity	Heritage Preservation/Protection Project Activity	Heritage Resources/Documentation Project Maintenance	Projected maintenance and knowledge needs	Prioritized maintenance and knowledge needs (top 5 - lowest)	Prioritized maintenance and knowledge needs (top 5 - lowest)	MOI/OCI Facilities Condition Index 0-4 (Good to Poor)
1	2604186	Beaman Student Center	36,100	Human Residence Hall	Human Residence Hall	Major	Good	Improving	Good	194,721	176,120.14	517,921.42	518,300.00	5	3	18.3
2	2604189	Beaman Student Center	36,100	Human Residence Hall	Human Residence Hall	Major	Good	Improving	Good	194,721	176,120.14	517,921.42	518,300.00	5	3	18.3
3	2604181	Beaman Student Center	41,821	Academic Library and Classrooms	Academic Library and Classrooms	Major	Fair	Improving	Good	234,721	233,885.31	533,811.42	535,000.00	3	3	25.4
4	2604178	Beaman Student Center	31,750	College Student Union	College Student Union	Major	Fair*	Improving	Good	241,144.26	241,144.26	541,344.26	542,000.00	3	3	25.2
5	2604176	Beaman Student Center	1,500	Office	Office	Major	Good	Improving	Fair*	194,721	194,721	517,921.42	518,300.00	5	5	6.5
6	2604177	Beaman Student Center	307,960	Academic Classrooms and Offices	Academic Classrooms and Offices	Major	Fair	Improving	Good	234,721	234,721	533,811.42	535,000.00	3	3	25.4
7	2604178	Beaman Student Center	41,821	Academic Library and Classrooms	Academic Library and Classrooms	Major	Good	Improving	Good	234,721	234,721	533,811.42	535,000.00	3	3	25.4
8	2604179	Beaman Student Center	30,510	Academic Library and Offices	Academic Library and Offices	Major	Fair	Improving	Good	234,721	234,721	533,811.42	535,000.00	3	3	25.4
9	2604181	Beaman Student Center	20,015	Academic Library and Offices	Academic Library and Offices	Major	Good	Improving	Good	234,721	234,721	533,811.42	535,000.00	3	3	25.4
10	2604182	Beaman Student Center	50,716	Academic Library and Offices	Academic Library and Offices	Major	Fair	Improving	Good	234,721	234,721	533,811.42	535,000.00	3	3	25.4
11	2604183	Beaman Student Center	318,995	Academic Library and Offices	Academic Library and Offices	Major	Fair	Improving	Good	234,721	234,721	533,811.42	535,000.00	3	3	25.4
12	2604184	Beaman Student Center	41,821	Academic Library and Offices	Academic Library and Offices	Major	Good	Improving	Good	234,721	234,721	533,811.42	535,000.00	3	3	25.4
13	2604185	Beaman Student Center	14,810	Academic Library and Offices	Academic Library and Offices	Major	Good	Improving	Good	234,721	234,721	533,811.42	535,000.00	3	3	25.4
14	2604187	Beaman Student Center	44,020	Academic Library and Offices	Academic Library and Offices	Major	Good	Improving	Good	234,721	234,721	533,811.42	535,000.00	3	3	25.4
15	2604188	Beaman Student Center	72,150	Academic Library and Offices	Academic Library and Offices	Major	Good	Improving	Good	234,721	234,721	533,811.42	535,000.00	3	3	25.4
16	2604189	Beaman Student Center	313,860	Academic Library and Offices	Academic Library and Offices	Major	Good	Improving	Good	234,721	234,721	533,811.42	535,000.00	3	3	25.4
17	2604180	Beaman Student Center	20,015	Academic Library and Offices	Academic Library and Offices	Major	Good	Improving	Good	234,721	234,721	533,811.42	535,000.00	3	3	25.4
18	2604181	Beaman Student Center	62,240	Academic Library and Offices	Academic Library and Offices	Major	Good	Improving	Good	234,721	234,721	533,811.42	535,000.00	3	3	25.4
19	2604182	Beaman Student Center	158,200	Academic Library and Offices	Academic Library and Offices	Major	Good	Improving	Good	234,721	234,721	533,811.42	535,000.00	3	3	25.4
20	2604183	Beaman Student Center	17,700	Academic Library and Offices	Academic Library and Offices	Major	Good	Improving	Good	234,721	234,721	533,811.42	535,000.00	3	3	25.4
21	2604184	Beaman Student Center	54,900	Academic Library and Offices	Academic Library and Offices	Major	Good	Improving	Good	234,721	234,721	533,811.42	535,000.00	3	3	25.4
22	2604185	Beaman Student Center	12,200	Academic Library and Offices	Academic Library and Offices	Major	Fair	Improving	Good	234,721	234,721	533,811.42	535,000.00	3	3	25.4
23	2604187	Beaman Student Center	18,000	Academic Library and Offices	Academic Library and Offices	Major	Good	Improving	Good	234,721	234,721	533,811.42	535,000.00	3	3	25.4
24	2604189	Beaman Student Center	175,300	Academic Library and Offices	Academic Library and Offices	Major	Good	Improving	Good	234,721	234,721	533,811.42	535,000.00	3	3	25.4
25	2604197	Beaman Student Center	2,400	Academic Library and Offices	Academic Library and Offices	Major	Good	Improving	Good	234,721	234,721	533,811.42	535,000.00	3	3	25.4
26	2604204	Beaman Student Center	14	Academic Library and Offices	Academic Library and Offices	Major	Fair	Improving	Good	234,721	234,721	533,811.42	535,000.00	3	3	25.4
27	2604182	Beaman Student Center	11,000	Academic Library and Offices	Academic Library and Offices	Major	Fair	Improving	Good	234,721	234,721	533,811.42	535,000.00	3	3	25.4
28	2604182	Beaman Student Center	14,810	Academic Library and Offices	Academic Library and Offices	Major	Good	Improving	Good	234,721	234,721	533,811.42	535,000.00	3	3	25.4
29	2604184	Beaman Student Center	14,810	Academic Library and Offices	Academic Library and Offices	Major	Good	Improving	Good	234,721	234,721	533,811.42	535,000.00	3	3	25.4
30	2604185	Beaman Student Center	14,810	Academic Library and Offices	Academic Library and Offices	Major	Good	Improving	Good	234,721	234,721	533,811.42	535,000.00	3	3	25.4
31	2604185	Beaman Student Center	14,810	Academic Library and Offices	Academic Library and Offices	Major	Good	Improving	Good	234,721	234,721	533,811.42	535,000.00	3	3	25.4
32	2604185	Beaman Student Center	14,810	Academic Library and Offices	Academic Library and Offices	Major	Good	Improving	Good	234,721	234,721	533,811.42	535,000.00	3	3	25.4
33	2604185	Beaman Student Center	14,810	Academic Library and Offices	Academic Library and Offices	Major	Good	Improving	Good	234,721	234,721	533,811.42	535,000.00	3	3	25.4
34	2604185	Beaman Student Center	14,810	Academic Library and Offices	Academic Library and Offices	Major	Good	Improving	Good	234,721	234,721	533,811.42	535,000.00	3	3	25.4
35	2604185	Beaman Student Center	14,810	Academic Library and Offices	Academic Library and Offices	Major	Good	Improving	Good	234,721	234,721	533,811.42	535,000.00	3	3	25.4
36	2604185	Beaman Student Center	14,810	Academic Library and Offices	Academic Library and Offices	Major	Good	Improving	Good	234,721	234,721	533,811.42	535,000.00	3	3	25.4
TOTAL										51,141,311.21	51,141,311.21	51,141,311.21	51,141,311.21	5	5	18.3

*Indicates that current status differs from 2018 status.

Montana State University Buildings Greater Than or Equal to 50 Years Old				
Smith. Number	Building Name	Construction/ Occupancy Date	Building Number	Gross Area (s.f.)
MSU - Bozeman ¹				
24GA1893	MSU Historic District	1893-1967		
	MSU Campus Cultural Landscape (site)	1893-1967		
	Danforth Park Iris Garden (site)	1926; 1952		
	Lewis & Clark Field (site)	1915		
	Harrington Park Duck Pond (site)	1914		
	Romney Green/Romney Oval (site)	1920		
	"Untitled" bronze sculpture (object)	1960		
	Gatton Field Gate (object)	1930		
	Territory-State Dedication Marker (object)	1914		
24GA0336	Hapner Hall	1959	336	95,524
24GA1629	Heating Plant	1922	303	11,616
24GA1681	AJM Johnson Hall	1954	113	41,622
24GA1763	Strand Union Building	1939;1957;1967; etc.	304	191,407
24GA1796	Danforth Chapel	1952	313	1,560
24GA1797	Langford Hall	1960	338	104,301
24GA1798	Reid Hall	1959	115	90,982
24GA1799	McCall Hall	1952	112	10,528
24GA1871	Hamilton Hall	1910	301	28,013
24GA1872	Hannon Hall	1955	331	90,748
24GA1873	Hedges Complex	1965-1967		
24GA1874	Herrick Hall	1926	109	41,286
24GA1876	Johnstone Center	1955	330	136,204
24GA1877	Lewis Hall	1923	103	44,188
24GA1878	Linfield Hall	1909;1953	104	69,938
24GA1879	Montana Hall	1898	101	35,595
24GA1880	Plew Building	1952	316	18,086
24GA1881	Atkinson Quadrangle	1934		
	Quad A Residence Hall	1934	370	6,866
	Quad B Residence Hall	1934	371	6,937
	Quad C Residence Hall	1934	372	7,381
	Quad D Residence Hall	1934	373	7,488
	Quad E Residence Hall	1934	374	7,009
	Quad F Residence Hall	1934	375	6,989
24GA1882	Renne Library	1949;1960	111	158,895
24GA1883	Roberts Library	1922	107	49,717
24GA1884	Romney Hall (Gymnasium)	1922	105	57,560
24GA1885	Roskie Hall	1967	344	92,663

¹ Smithsonian number provided for buildings with individual Property Record Forms, listed in ascending number order. Those buildings without Smithsonian numbers are listed alphabetically.

Montana State University Buildings Greater Than or Equal to 50 Years Old				
Smith. Number	Building Name	Construction/ Occupancy Date	Building Number	Gross Area (s.f.)
24GA1887	Taylor Hall	1894	108	9,938
24GA1889	Traphagen Hall	1919	102	37,433
24GA1892	Wool Laboratory	1947	405	7,450
	1605 South 5th	1957	538	1,043
	1102 South 6th	1950	526	4,411
	1106 South 6th	1950	527	1,854
	Ag Artificial Insemination & Classroom	1968	430	
	Ag Calving Building #1	1968	428	
	Ag Calving Building #2	1968	453	
	Ag Horse Barn	1969	443	
	Ab Little Working Facility	1968	429	
	Agronomy Field House	1934	610	1,468
	Brick Breeden Fieldhouse	1958	114	184,452
	Brick Breeden Fieldhouse Storage Building	1967	345	
	Cobleigh Hall	1970	119	
	Deer Street	1957	562	6,760
	Facilities Butler Building	1958	319	4,328
	Facilities Carpenter Shop	1969	442	
	Facilities Conference Room Quonset	1946	328	971
	Facilities Custodial Lamp Storage	1951	349	971
	Facilities Custodial Quonset	1946	326	1,050
	Facilities Custodial Storage Quonset	1946	327	971
	Facilities Electricians' Quonset	1946	322	2,009
	Facilities Equipment Garage	1947	348	4,954
	Facilities Grounds North Storage	1959	420	384
	Facilities Grounds Shop	1960	339	2,406
	Facilities Grounds South Storage	1961	427	500
	Facilities Heat Plant Storage Quonset	1950	312	1,923
	Facilities Laborers' Quonset	1946	324	2,009
	Facilities Motor Pool Garage	1952	314	6,715
	Facilities Paint Booth/Shop	1947	309	2,399
	Facilities Plumbers' Quonset	1946	323	2,009
	Facilities Preventive Maintenance Quonset	1946	325	2,009
	Facilities Refrigeration Quonset	1946	321	2,009
	Facilities Storage Quonset	1951	350	971
	21 Faculty Court	1957	533	1,043
	22 Faculty Court	1957	534	1,043
	23 Faculty Court	1957	535	1,043
	24 Faculty Court	1957	536	1,043
	25 Faculty Court	1957	537	1,043
	Family Housing Office Building	1968	524	
	Feed Lot Pole Barn	1968	466	

Montana State University Buildings Greater Than or Equal to 50 Years Old				
Smith. Number	Building Name	Construction/ Occupancy Date	Building Number	Gross Area (s.f.)
	Fox Street Houses (23)	1957	564	15,548
	Glacier Court Houses (42)	1957	563	28,392
	Gopher Street Houses (7)	1957	567	4,732
	Grain Bin in front Horse Barn	1969	697	
	Hay Shed Pole Barn	1968	455	
	North Hedges Residence Hall	1965	343	144,080
	South Hedges Residence Hall	1965	340	137,700
	Roy E. Huffman Building	1969	441	
	Jefferson Court	1957	560	14,196
	Kellogg Center	1944	630	3,704
	Peter Koch Tower Apartments	1968	520	
	Marsh Laboratory	1961	116	31,018
	101 East Julia Martin Drive Apartments	1968	523101 - 523111	
	Melvin Graduate Arts Studios	1968	433	
	Miller Dining Hall	1964	341	46,624
	Miller Pavilion	1968	432	
	Poultry Barn - Vacant	1943	631	6,837
	South 15 th Street Houses (10)	1957	566	6,760
	SOB Barn	1924	608	10,919
	Nelson Story Tower Apartments	1968	521	
	Swingle Health Center	1957	346	22,213
	Oscar Thomas Nutrition Center	1968	434	
	Oscar Thomas Nutrition Center Grow Safe Equip	1968	431	
	Oscar Thomas Nutrition Ctr Open Hay Shed	1968	454	
	Oscar Thomas Nutrition Ctr Feed Tanks (6)	1968	461	
	West Garfield Street Houses (2)	1957	565	1,352
MSU - Northern				
24HL1382	MSU Northern Gymnasium	1955	11	58,028
	Cowan Hall	1949	10	67,801
	Donaldson Hall - Offline 2	1936	3	32,745
	Hagener Science Center by Page and Werner	1966	29	41,971
	Metals Technology	1945	5	11,211
24HL1654	Pershing Hall	1932	2	14,360
	Morgan Hall by Oswald Berg	1957		
	Student Union Building by Max Kuhr	1958		
	Advanced Fuels	1951		
	New Physical Plant by Max Kuhr	1966	28	
	Electronics Building by Kuhr and Davidson	1968	30	
	MacKenzie Hall - Women's dorm by Kuhr & Davidson	1971		

Montana State University Buildings Greater Than or Equal to 50 Years Old				
Smith. Number	Building Name	Construction/ Occupancy Date	Building Number	Gross Area (s.f.)
	7 temporary single-story frame residences (Moved from Chester)	Pre-1957 (c.1947)		
	2 campus houses designed by O. Berg, built by students (on Buttrey Drive)	1957-1960		
	Married student housing - 2	1960		
	Married student housing - 3	1961		
	Engineering Technology & Industrial Arts Building (Brockmann Center) by Page & Werner	1970		
MSU - Billings				
24YL2054	McMullen Hall	1935	1	55,026
24YL1860	Apsaruke Hall	1957	7	20,254
24YL1861	P.E. Building (Alterowitz)	1961	8	112,997
24YL1859	Academic Support Center ²	1955	6	12,968
	Cisel Hall / Music	1951	4	40,521
	Petro Hall	1966		147,664
	Rimrock Hall	1962	14	91,762
24YL2220	Science Building	1947	3	54,311
	Liberal Arts Building	1969-1970		97,749
	Library	1968		??
	College of Education Building	1950		??
	McDonald Hall at 1242 N. 28th	1952 ³		32,948
	Alumni/Guest House at 2712 Normal	1930		2,179
	William R. Lowe Daycare and Enrichment Center at 2630 Normal	1936		3,069
	Foundation House at 2615 Virginia Lane	1948		4,903
	Chancellor's Residence at 432 Silver	1968		
	KEMC Radio Stn at 406 Marbara Lane	1970		
	Townhomes (stdt hous'g) at 32 Mtn View	1970		
MSU - Great Falls (none)				
MAES (Agriculture & Experiment Stations)				
24JT0162	Central MT Ag Experiment Station, Moccasin	1907		
	CARC Analytical Research Lab	1922	4413	1,200
	CARC Fertilizer Shed	1922	4417	208
	CARC Grain Bins Three 2800 Bu Butler	1965	4424	1,140
	CARC Grain Bins Three 1-100 BU	1967	4423	
	CARC Greenhouse	1968	4421	
	CARC House	1908	4403	1,024
	CARC Implement Shed	1921	4414	3,680

² The Academic Support Center has been demolished since the last reporting cycle.

³ Construction date from Montana Cadastral for building at 1242 North 28th Street, Billings, MT.

Montana State University Buildings Greater Than or Equal to 50 Years Old				
Smith. Number	Building Name	Construction/ Occupancy Date	Building Number	Gross Area (s.f.)
	CARC Seed Lab	1911	4409	1,344
	CARC Seed Plant	1969	4422	
	CARC Storage Shed/Car Garage	1918	4406	480
	CARC Well House	1915	4405	80
	EARC Cold Storage	1951	8402	1,008
	EARC Foreman Residence	1970	8403	
	EARC Granary/Grinding/Drying Lab	1963	8406	2,560
	EARC Laboratory	1955	8404	1,586
	EARC Machinery Shed	1957	8410	3,200
	EARC Machine Storage Shed	1935	8409	492
	EARC Superintendent Residence	1950	8401	1,037
24GA0352	Ft. Ellis Military Site - Archaeological	1867-1886		
24GA1894	Ft. Ellis MT Ag Experiment Station	1930	See individual bldgs. below	
	Ft. Ellis East Well (Rec. Map No. S02) ⁴	c.1950	--	Unk.
	Ft. Ellis Garage (Rec. Map No. B04)	1933	728	Unk.
	Ft. Ellis Hay Shelter – West (Rec. Map No. S14)	1933	735	2,400
	Ft. Ellis Horse Barn/Lab (Rec. Map No. B05)	1931	722	2,232
	Ft. Ellis Loading Ramp (Rec. Map No. S12)	c.1950	--	--
	Ft. Ellis North Well & Water Storage Tank (Rec. Map No. S01)	c.1931	--	50
	Ft. Ellis Oil Shed (Rec. Map No. B09)	1933	740	100
	Ft. Ellis Outhouse (Rec. Map No. B03)	c.1933	--	18
	Ft. Ellis Post-and-Beam Pulley Structure (Rec. Map No. S04)	c.1950	--	Unk.
	Ft. Ellis Pump House (Rec. Map No. S07)	1931	743	75
	Ft. Ellis Ram Test Shed (Rec. Map No. B10)	1933	737	5,220
	Ft. Ellis Residence #1 (Rec. Map No. B01)	1931	721	2,129
	Ft. Ellis Residence #2 (Rec. Map No. B02)	1933	732	1,100
	Ft. Ellis Research Sheep Shed & Shop (Rec. Map No. B11)	1931	730	8,249
	Ft. Ellis Shearing/Working Facility (Rec. Map No. B12)	1933	729	2,988
	Ft. Ellis Implement & Cow Shed/Storage (Rec. Map No. B07)	1933	739	2,592
	Ft. Ellis Storage (Was Granary) (Rec. Map No. B06)	c.1910	723	3,301
	Ft. Ellis Store House (Rec. Map No. B08)	1933	731	120
24MA0262	Red Bluff Stage Stop (Isaacs/Wann Residence)	1880 (burned 2006)		

⁴ "Rec." indicates Montana Historic Property Record prepared by Jessie Nunn, dated December 1, 2013.

Montana State University Buildings Greater Than or Equal to 50 Years Old				
Smith. Number	Building Name	Construction/ Occupancy Date	Building Number	Gross Area (s.f.)
	GIRVIN Farm Barn	c.1890 /1958	679	1,357
	GIRVIN Farm Granary	c.1890 /1958	681	614
	GIRVIN Farm Residence	c.1890 / 1958	676	2,399
	GIRVIN Residence 2-Car Garage	c.1920s/1958	675	857
	HARTMANN Log Bunk House	1929	2601	306
	HARTMANN Main House	1904	2605	2,400
	HARTMANN Ranch Frame Barn	1914	2602	3,200
	HARTMANN Ranch Pump	1965	2603	32
	HARTMANN Ranch Shop Shed	1927	2604	14,000
	Horticulture Farm Wood Office	1954	691	205
	Horticulture Pump House	1954	624	152
	LUTZ Farm New Garage	1951	813	545
	Post Farm Pump House - East	1968	716	
	Post Farm Seed Plant	1967	709	
24HL0329	Fort Assinniboine/NARC ⁵	1879-1967		
C	Circulation			
C	NARC Six-Unit Apt-Staff Housing (Bachelor Officer Qtrs - Res. 1) ⁶	1880	5403	18,525
C	NARC N. Duplex Apt 7 & 8 (Duplex Officers Qtrs - Res. 2)	1879	5402	5,810
C	NARC Living Quarters Apt. 9 Stn. Mgr. (Non-commissioned Officers Qtrs - Res.3)	1905	5401	2,052
C	NARC Office Bldg. (Post Library - Res. 4)	1889	5406	2,834
C	NARC Guard House (Guard House -Res. 5)	1905	5405	7,819
C	NARC Garage #1 (Officers Amusement Hall - Res. 6)	1886	5409	3,530
C/NC	NARC Soils Lab (Post Exchange - Res. 7)	1879	5404	5,214
C	NARC Warehouse (Ordinance House-Res. 8)	1884	5415	1,500
C	NARC Rec Building (Stable #4 Rec Hall - Res. 9)	1906	5414	7,922
C	NARC East Guard House (Dbl. Calvary Stable Guard/Shop - Res. 10)	1905	5418	1,749
C	NARC - Dbl. Calvary Stable Guard/Shop - Res. 11			
C	NARC West Guard House (Dbl. Calvary Stable Guard/Shop - Res. 12)	1905	5420	1,749

⁵ NARC includes historic Fort Assinniboine. The buildings, sites, structures, and objects listed as contributing to the historic district are identified with "C" in left-hand column. The resources without individual Smithsonian numbers are listed in numerical order of the Resource (Res.) listing.

⁶ "Res." Indicates resource number from the Fort Assinniboine (Boundary Increase and Additional Documentation) National Register Form listed on April 2, 2018. The list above includes all resources identified in the National Register nomination; the building names have been supplemented to include their historic names.

Montana State University Buildings Greater Than or Equal to 50 Years Old				
Smith. Number	Building Name	Construction/ Occupancy Date	Building Number	Gross Area (s.f.)
C	NARC Field Officers' Stable (Res. 13)	1880		
C	NARC Field Officers' Stable (Res. 14)	1880		
C	NARC Commissary Root Cellar (Res. 15)	1902		
C	NARC Commissary Root Cellar (Res. 16)	1902		
C	NARC Commissary Root Cellar (Res. 17)	1902		
C	NARC Ice House (Res. 18) – Steer Barn	1904-1905		
C	NARC Flag Staff (Res. 19)	1890		
C	NARC Fort Assiniboine Monument (Res. 20)	1880		
C	NARC Daughters of the American Revolution Marker (Res. 21)	1958		
--	NARC - No Resource 22 in NR nomination			
C	NARC Cattle Feeding Shed/Hay Storage Barn (Res. 23)	1934/1938		
C	NARC Machine Shed & Old Shop (Res. 24)	1938	5411	6,040
--	NARC - No Res. 25 in NR nomination			
C	NARC Pump House (Res. 26)	1927	5413	312
C	NARC Garage #2 (2-Car – Res. 27)	1927	5422	420
C	NARC Valve House (Res. 28)	1923	5424	90
--	NARC - No Resource 29 in NR nomination			
NC	NARC Resources 30 - 34	1981 - 2010		
C	NARC Weather Station (Res. 35)	1915		
C	NARC - various ruins/foundations (Res. 36 - 48)	1879-1894		
C	NARC Cemetery (Res. 49)	1879-1911		
	NARC Research Barn	1927	5410	8,976
	NWARC Behlen Grain Tank 1000BU	1970	6423	
	NWARC Crops Res./Office/Wet Lab	1957	6408	2,560
	NWARC Foreman's Residence	1925	6401	1,600
	NWARC Garage/Two Wet Labs	1963	6410	1,728
	NWARC Misc. Storage	1955	6413	100
	NWARC Residence	1925	6402	1,000
	NWARC Shop	1963	6411	2,304
	NWARC Truck Scale	1967	6415	
	Red Bluff Bottom Hopper Bin	1928	2419	240
	Red Bluff Cow Barn (Stone)	1880	2426	1,000
	Red Bluff Lumber Shed	1961	2423	656
	Red Bluff Sheep Office	1930	2438	600
	SARC Barn Ctr. Condemned Section	1916	3421	4,493
	SARC Lg. Bushel Bins (3)	1950	3456	11,400
	SARC Sm. bushel bins (3)	1950	3455	1,050
	SARC Cereal/Crops Lab	1928	3433	760

Montana State University Buildings Greater Than or Equal to 50 Years Old				
Smith. Number	Building Name	Construction/ Occupancy Date	Building Number	Gross Area (s.f.)
	SARC Drying Rn East Barn Complex	1916	3467	823
	SARC Feed Mill	1950	3457	240
	SARC Homesteader Hall Leased	1928	3411	3,200
	SARC Horse Barn/Machine Shed	1959	3438	3,737
	SARC Irrigation Pump House	1951	3420	48
	SARC Machine Shed #1	1916	3419	2,852
	SARC Machine Shed #2	1920	3464	4,500
	SARC Machine Shed #3	1948	3425	5,040
	SARC Pump House (Domestic)	1928	3409	189
	SARC Residence #3	1917	3403	1,784
	SARC Residence #4	1917	3404	2,182
	SARC East Residence Garage	1920	3423	672
	SARC West Residence Garage	1917	3424	620
	SARC Shop	1920	3415	2,200
	SARC Southern Annex Barn Complex	1916	3465	4,125
	SARC Truck Scale House & Scale	1960	3444	160
	SARC Western Annex Barn Complex	1916	3466	1,706
	VET Clinic Building	1960	426	2,527
	Veterinary Equipment Shed	1960	421	3,600
	Veterinary Loafing Shed	1960	422	3,600
	VET Quonset Livestock Shelter	1950	409	1,004
	VET Quonset Livestock Shelter	1950	410	1,970
	VET Shop Quonset	1953	413	960
	VET Storage Building	1941	627	1,000
	WARC Bio Laboratory	1910	7401	1,319
	WARC Garden Tool House	1925	7404	660
	WARC Grind Rm/ Greenhouse	1926	7405	1,383
	WARC Horticulture & Soils Lab	1956	7406	2,200
	WARC Main Office	1911	7403	2,304
	WARC Tractor Shed & Shop	1935	7409	2,520
	WARC Well House	1950	7412	120
	WARC West Residence	1921	7402	1,640
	WTARC - none (established 1977; housed in a "steel government building")			
	<i>Miscellaneous Buildings</i>			
	Cold Storage Quonset	1949	612	700
	Poultry Barn -Vacant	1943	631	6,837
	Swine Center Shed	1958	683	255