

The Sheyenne River Study Unit .....	12.1
Description of the Sheyenne River Study Unit.....	12.1
Physiography .....	12.1
Drainage .....	12.6
Climate.....	12.6
Flora and Fauna .....	12.7
Other Natural Resource Potential.....	12.8
Overview of Previous Archeological Work .....	12.8
Inventory Projects .....	12.8
<i>Fort Ransom</i> .....	12.45
<i>Lake Jessie</i> .....	12.45
<i>Camp Grafton North</i> .....	12.46
<i>Pipelines</i> .....	12.47
Test Excavation Projects .....	12.48
<i>Grahams Island</i> .....	12.52
<i>Camp Grafton North</i> .....	12.53
<i>Camp Grafton South</i> .....	12.55
<i>Pipelines</i> .....	12.56
NRHP and NDSHSR .....	12.56
Major Excavation and Salvage Projects .....	12.57
<i>Dahnke-Reinke Site</i> .....	12.60
<i>Horner-Kane Site</i> .....	12.61
<i>Camp Grafton North</i> .....	12.61
<i>Camp Grafton South</i> .....	12.62
Other Work.....	12.62
Paleo-Indian Period .....	12.66
Paleo-Environmental Modeling.....	12.66
Cultural Chronology .....	12.67
Settlement Behavior .....	12.67
Native Subsistence Practices.....	12.67
Technologies.....	12.68
Artifact Styles .....	12.68
Regional Interaction.....	12.68
Historic preservation Goals, Priorities, and Strategies .....	12.68
Plains Archaic Period.....	12.69
Paleo-Environmental Modeling.....	12.69
Cultural Chronology .....	12.70
Settlement Behavior .....	12.70
Native Subsistence Practices.....	12.71
Technologies.....	12.71
Artifact Styles .....	12.71
Regional Interaction.....	12.71
Historic Preservation Goals, Priorities, and Strategies .....	12.72
Plains Woodland Period .....	12.72
Paleo-Environmental Modeling.....	12.74
Cultural Chronology .....	12.74
Settlement Behavior .....	12.75

Native Subsistence Practices.....	12.76
Technologies.....	12.77
Artifact Styles .....	12.77
Historic Preservation Goals, Priorities, and Strategies .....	12.78
Plains Village Period .....	12.79
Paleo-Environmental Modeling.....	12.82
Cultural Chronology.....	12.82
Settlement Behavior.....	12.82
Native Subsistence Practices.....	12.83
Technologies.....	12.83
Artifact Styles .....	12.84
Regional Interaction.....	12.84
Historic Preservation Goals, Priorities, and Strategies .....	12.84
Equestrian/Fur Trade Period .....	12.85
Paleo-Environmental Modeling.....	12.85
Cultural Chronology.....	12.85
Settlement Behavior.....	12.85
Native Subsistence Practices.....	12.86
Technologies.....	12.86
Artifact Styles .....	12.86
Regional Interaction.....	12.86
Historic Preservation Goals, Priorities, and Strategies .....	12.87

Figure 12.1: Map of the Sheyenne River Study Unit. ....	12.2
Figure 12.1A: Shaded relief map of the Sheyenne River Study Unit.....	12.3
Figure 12.2: Re-creation of a table provided by Jackson et al. (2005) of tested sites at Camp Grafton North in 2002-2003.....	12.54

Table 12.1: Townships in the Sheyenne River Study Unit. ....	12.4
Table 12.2: Feature Type by Landform for Recorded Archeological Sites within the Sheyenne River Study Unit, 13-Sept-2007. ....	12.9
Table 12.3: Cultural/Temporal Affiliation for Recorded Archeological Resources within the Sheyenne River Study Unit, 13-Sept-2007. ....	12.11
Table 12.4: Inventory Projects in the Sheyenne River Study Unit, 5-Sept-2007. ....	12.12
Table 12.5: Test Excavations in the Sheyenne River Study Unit, 5-Sept-2007. ....	12.48
Table 12.6: Major Excavation Projects in the Sheyenne River Study Unit, 5-Sept-2007. ....	12.57
Table 12.7: Other Work in the Sheyenne River Study Unit, 5-Sept-2007. ....	12.64

# **The Sheyenne River Study Unit**

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The Sheyenne River Study Unit is located in eastern North Dakota. The Sheyenne River Study Unit is adjacent to the Northern Red River Study Unit to the east and north; the Southern Red River Study Unit to the south and southeast; and to the James River, Souris River, and Southern Missouri River study units to the west.

## Description of the Sheyenne River Study Unit

The Sheyenne River Study Unit covers 10,996 mi<sup>2</sup> including the Devils Lake basin. Figures 12.1 and 12.1A illustrate the study unit and several principal tributaries within it. The river lies entirely within North Dakota. All or parts of McHenry, Ransom, Richland, Cass, Barnes, Stutsman, Steele, Griggs, Foster, Eddy, Nelson, Walsh, Ramsey, Cavalier, Towner, Rolette, Benson, Pierce, Sheridan, and Wells counties are in the Sheyenne River Study Unit. Table 12.1 is a complete list of the townships in the study unit.

## Physiography

The study unit is primarily in the Drift Prairie physiographic zone of the Central Lowlands physiographic province (Bluemle 1979:4). The Drift Prairie is a glaciated plain with features resulting from Late Wisconsinian glacial action. The land is characterized by gently rolling hills, low ridges, swales, and prairie pothole lakes and wetlands (Kresel 1961:106; Simpson 1929:8). Devils Lake, Stump Lake, and Lake Jessie occupy proglacial valleys or channels cut by meltwater runoff (Klausing 1968:7; Simpson 1929:9).

The southeastern part of the study unit is in the Red River valley physiographic zone (Bluemle 1979:4). The Red River valley is a relatively featureless plain resulting from the sedimentation of glacial Lake Agassiz. Terrain is essentially flat with elevation varying only a few meters over the expansive lake bed except where Holocene drainages have downcut.

The Sheyenne trench can be divided into three portions of different ages. The western most portion is the oldest segment. This area originated as a meltwater channel with runoff from the Souris ice lobe into a proglacial lake located in the vicinity of Nelson, Eddy, and Griggs counties (Brophy and Bluemle 1983:176). A broad, shallow braided channel characterizes this section. This drainage pattern persisted until about 12,000 BP, at which time the ice had retreated and the channel was extended to the south, draining into glacial Lake Dakota (Haury and Schneider 1986:16-17).

Figure 12.1: Map of the Sheyenne River Study Unit.

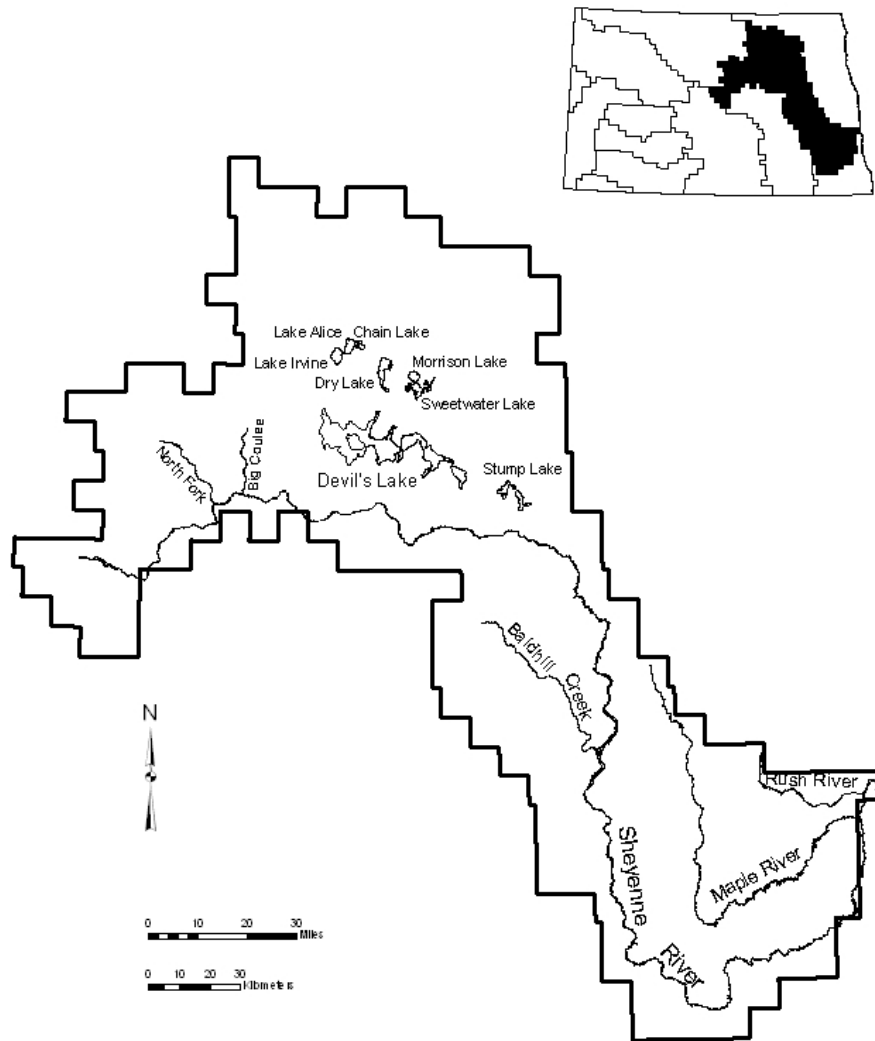


Figure 12.1A: Shaded relief map of the Sheyenne River Study Unit.

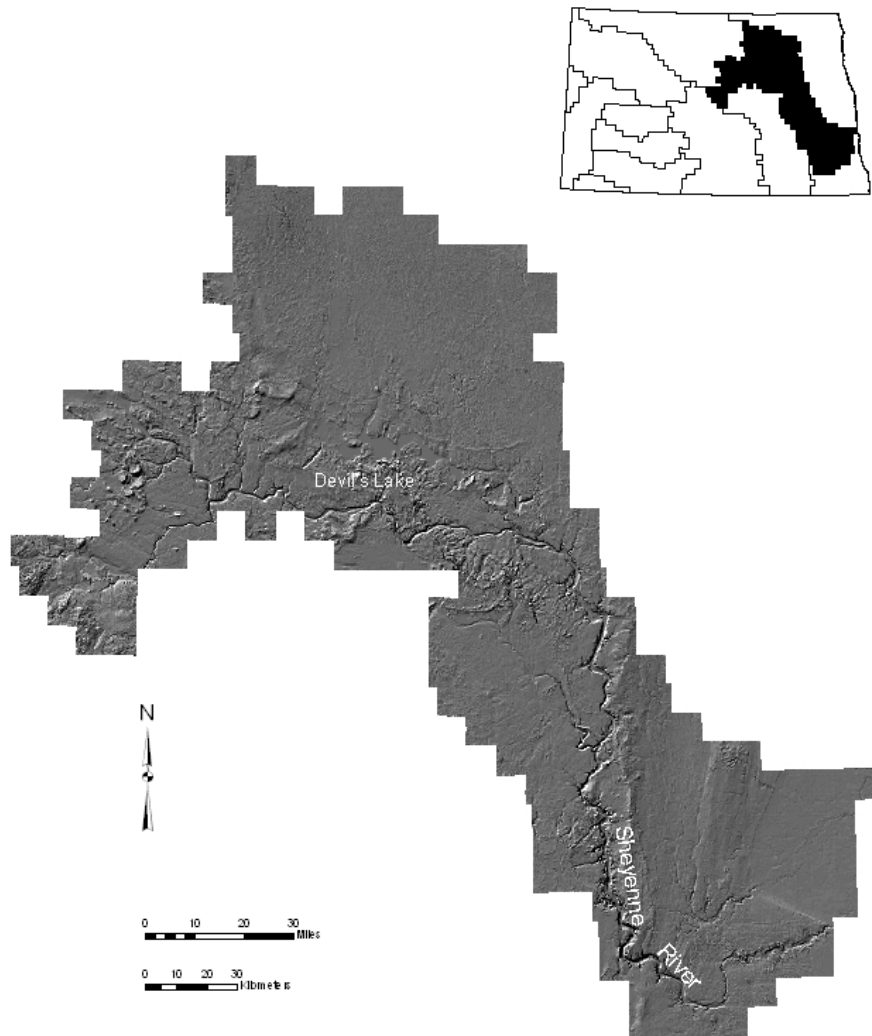


Table 12.1: Townships in the Sheyenne River Study Unit.

TOWNSHIP	RANGE
133	54
133	55
133	56
133	57
134	53
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135	52
135	53
135	54
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TOWNSHIP	RANGE
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TOWNSHIP	RANGE
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146	60
146	61
146	62
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TOWNSHIP	RANGE
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TOWNSHIP	RANGE
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TOWNSHIP	RANGE
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Continued ice retreat resulted in the formation of glacial Lake Agassiz by 11,500 BP. At that time the river flowed eastward onto the lower land surface, draining into the lake. Concurrently, glacial lakes Souris and Minnewaukan began to drain into the Sheyenne. The influx of water capacity and sediment changed the channel by increasing its carrying capacity and causing deep trenching. The sediments it carried were deposited as it entered Lake Agassiz, creating the Sheyenne delta (Brophy and Bluemle 1983:179; Haury and Schneider 1986:17).

A number of shifts in the position and rate of flow of the Sheyenne River were caused by periodic advances and retreats of glacial ice. The level of Lake Agassiz dropped for the last time ca. 9500-9200 BP. At that time the Sheyenne River extended its course northeastward, eventually crossing the delta and reaching the old lake floor. As it flowed across the lower lake floor it trenched the delta (Brophy and Bluemle 1983:185). The modern Sheyenne River follows this course across the lake plain flowing northeast to the Red River (Haury and Schneider 1986:17).

### Drainage

The headwater of the Sheyenne River is in Sheridan County. The river drains into the Red River. The Sheyenne River is set in a deep and wide entrenched valley. The valley was formed by water flowing along the front of the ice sheets during the Late Wisconsinan period. Many of the morphological features of the modern channel were created by the large volumes of water and sediment which was dumped into the river from Lakes Souris and Minnewaukan or by changes in gradient as its course was extended (Haury and Schneider 1986:17). The width varies from 0.8 km to 2.5 km with an average of 1.2 km.

Drainage within the Devils Lake basin is closed and nonintegrated when lake levels are normal. At 1,445 ft the waters of Devils Lake overflows into the Stump Lake system. Then at 1,457 ft the combined waters of Devils Lake and Stump Lake overflow into the Sheyenne River (Gregg 1993).

### Climate

Climatic changes since ca. 10,000 BP have been discussed in the paleo-environmental studies by Clayton et al. (1976) and Bluemle (1979:77-78) for the Drift Prairie region. Also, a sedimentary history of Devils Lake is presented by Callender (1968:246-258) indicating the fluctuation of the level of Devils Lake during the Holocene. Periods of high human population can be correlated with periods of high water (Gregg 1993:2.3). Along the north shore of Devils Lake, Bluemle (1991:10) identified buried soils overlain by beach deposits. Gregg (1993) summarizes this aspect of the study by stating:

These are interpreted to represent periods of stable lake level punctuated by increased lake level and



overflow to Stump Lake and the Sheyenne River during stages of high water in the basin. He reports four episodes of soil development dated between 2000 and 1500 BP. These correlate temporally with the Late Plains Archaic-Middle Plains Woodland peak of cultural developments depicted in Figure 2.2. A fifth soil date indicates correlation of mesic climatic conditions with the Early Plains Village period represented by the spike in the graph at about AD 1200.

All of North Dakota is defined as having a subhumid continental climate characterized by wind and extreme temperatures. Winters are long and cold, while summers are short with warm to hot temperatures and subhumid conditions (Omodt et al. 1966:4-5). Prior to Euro-American intervention, spring flooding, especially in the Red River valley, could be extensive.

In Ramsey County the average winter temperature is 8 degrees Fahrenheit. In the summer the average temperature is 67°F. Total annual precipitation is 16.58 in, of this 75% usually falls in the months April through September. The average seasonal snowfall is ca. 37 in (Bigler and Liudahl 1986:3-4).

### Landforms and Soils

The primary landforms in the Sheyenne River Study Unit include floodplains, terraces, beach ridges, valley walls, alluvial/colluvial fans, and upland plains. Soils found on these landforms formed under a variety of pedogenic factors.

Natural Resources Conservation Service (NRCS) official soil survey resources are available on the internet (NRCS 2007a, b, c). The Web Soil Survey in particular may be useful, as it has replaced the traditional county soil survey books.

Electronic Field Office Technical Guide:

<http://www.nrcs.usda.gov/technical/efotg/>

Soil Data Mart: <http://soildatamart.nrcs.usda.gov>

Web Soil Survey: <http://websoilsurvey.nrcs.usda.gov/app/>

### Flora and Fauna

The Drift Prairie is dominated by tall grasses with some wooded areas along portions of the older terraces, valley slopes, and floodplain along the Sheyenne. In the vicinity of the small lakes and ponds in the uplands, marsh wetlands are present (Simpson 1929:9,20; Thompson and Joos 1975:34). The dominant native plant species of the prairie are needlegrass and slender

wheatgrass. Sage and wolfberry are also common in the uplands (Johnson et al. 1974:20-28). Fruit-bearing shrubs such as chokecherry, plum rose, and currant are present. Trees include primarily American elm, green ash, burr oak, and basswood (Simpson 1929:20; Johnson et al. 1974:29).

Bison, elk, pronghorn antelope, foxes, coyotes, wolves, jack rabbits, and ground squirrels historically were represented in the grasslands. Moose and caribou also may be present at times. The forests supported white-tailed deer, bear, raccoons, wolf, wildcat, martin, mink, skunk, and cottontail rabbits. Riparian areas are the habitat for beaver, muskrat, shore birds and migratory waterfowl (Johnson et al. 1974:31-38; Simpson 1929:9; Thompson and Joos 1975:86-90). Raptorial and song birds are common. Game birds include wild turkey, grouse, prairie chickens, and mourning doves. Northern pike, perch, and freshwater mussels occupy the river (S. Fox 1984:14).

### Other Natural Resource Potential

The biotic diversity provided a wide array of resources for food, fuel, shelter, and water. Glacial erratics are abundant. The large amount of rocks in the glacial till had broad utility for stone technologies. Large cobbles and small boulders were often used as weights to hold down tipi covers. Granitic raw materials were used to make ground and pecked stone artifacts. Rocks were also frequently used in stone boiling and sweat bathing. Knappable stones are found in the stream gravels including Swan River chert, Tongue River silicified sediment (TRSS), and cherts.

### Overview of Previous Archeological Work

Archeological work in this study unit has primarily been funded due to federal cultural resources legislation and regulations.

### Inventory Projects

As of 13 September 2007, there were 739 archeological sites and 566 archeological site leads and isolated finds in the state computerized site data file for the Sheyenne River Study Unit. With its 10,996 mi<sup>2</sup> area, there is one site recorded for each 14.9 mi<sup>2</sup>. In comparison, the James River Study Unit is one site per 13.8 mi<sup>2</sup>, the Northern Red River Study Unit is one site per 31.6 mi<sup>2</sup>, and the Southern Red River Study Unit is one site per 49 mi<sup>2</sup>. The low density of sites in the Sheyenne River Study Unit as well as the others in eastern North Dakota is a reflection primarily of less survey in comparison with western North Dakota.

Table 12.2 summarizes data coded on the site forms for property types by landforms. Totals vary due to incompletely coded data or uncoded data for some variables, and because multiple variables are recorded (e.g., a site might have multiple components or be situated on more than one landform).

**Table 12.2: Feature Type by Landform for Recorded Archeological Sites within the Sheyenne River Study Unit, 13-Sept-2007.**

	Cultural Material Scatter	Earthlodge Village	Earth-works	Fortification	Grave	Hearth	Jump	Mound	Other Rock Features	Pit	Quarry or Mine	Rock Art	Stone Circle	Trail	Misc.	Total
Beachline (glacial)	6							1								7
Beach or riverbank	13					1										14
Island					2										2	4
Draw	12		1				3	1	3				2		2	24
Upland plain	49			1	3			26	2				4		1	86
Floodplain	48							4					2			54
Hill - Knoll - Bluff	93	1	4	2	51	1		81	49	2		1	27	2	1	315
Ridge	24	1	1		5			14	35	3			20			103
Saddle	2							1	3				2			8
Sandbar	1															1
Spur	6							2	16				18			42
Swale	5												1			6
Terrace	135	2	5	2	9	7	1	20	12	2	1		16	1	1	214
Alluvial fan													3			3
Butte								2	1				1			4
Foot slope	33		3		5			14	5	1			2			63
Other	7					1		5	4				4			21
Dune	8															8
Lacustrian plain	6															6
<b>Total</b>	<b>448</b>	<b>4</b>	<b>14</b>	<b>5</b>	<b>75</b>	<b>10</b>	<b>4</b>	<b>171</b>	<b>130</b>	<b>8</b>	<b>1</b>	<b>1</b>	<b>102</b>	<b>3</b>	<b>7</b>	<b>983</b>

Mounds, stone circles, and other rock features are well represented. A high priority is to identify the cultural/temporal affiliations of a small sample of these property types in this study unit (Table 12.3). Thirteen mound sites have been attributed to Middle Woodland, Sonota/Besant, Devils Lake-Sourisford, and Late Prehistoric.

One Paleo-Indian site has been recorded for this study unit (Table 12.3). Additionally, a number of Paleo-Indian spearpoints including Folsom, Agate Basin, Hell Gap, and Browns Valley have been reported in private collections (Hauray and Schneider 1986:39; Johnson 1962:161; Schneider 1982). In addition, Early Archaic to historic period sites are represented. However, it is clear that cultural/temporal affiliation has not been recorded in the site file data base in as much detail as there might be.

Upland landform site settings (upland plains, hills, knolls, bluffs, ridges) predominate in the sample, as in most study units. In contrast, in the James River Study Unit over half of the recorded sites are situated on terraces or floodplains. In the Sheyenne River Study Unit just over one-fourth of the sites are partially or entirely on terraces or floodplains.

Table 12.4 is a listing of all inventory projects conducted wholly or partly within this study unit for which there are numbered reports on file in the manuscript collection of HPD, SHSND. The general cut off date for manuscript consideration is 5 September 2007. However, select later works are considered. Below is a brief description of some of the survey projects.

The earliest archeological work undertaken in the area was probably that by T. H. Lewis (Lewis 1886, 1891, 1893), known as the Northwestern Archaeological Survey. Lewis recorded thousands of burial mounds and earthworks sites in 11 states in the north central United States and parts of Manitoba (Hauray 1990:2; Lewis 1898:8). In North Dakota, over 200 earthworks, petroglyphs, and boulder formations were recorded in 12 counties (Hauray 1990:2). Within the Sheyenne River Study Unit, 71 earthwork sites were recorded by Lewis. Lewis recorded four mound sites in Benson County, five mounds along the Sheyenne River in the vicinity of Valley City in Barnes County, and 62 earthwork sites in Ransom County (Hauray 1990).

Cooper (1947) and Bauxar (n.d.) briefly surveyed the proposed Sheyenne reservoir in Benson, Eddy, and Wells counties. This reservoir was never constructed. Seven occupational areas and four mound sites were recorded (Cooper 1947:4-7). Most of the occupation sites were on terraces in the river valley and the mounds were on the uplands (Cooper 1947:5-7). A site (32BE3) with a fortification ditch was recorded. The site has been suggested to be either a military encampment or an aboriginal earthwork. Effigy mounds were reported as being possibly present at 32ED3 and 32ED4.

During a survey of the Baldhill reservoir area, 10 archeological sites were located. Six occupational or campsites, three mound sites, and one site of unknown type were located. Most of the occupational areas were on low terraces along abandoned stream channels while the mounds were on uplands overlooking the river valley (Kivett 1949:7-8).

Table 12.3: Cultural/Temporal Affiliation for Recorded Archeological Resources within the Sheyenne River Study Unit, 13-Sept-2007.

<b>Paleo-Indian</b>	
Unspecified	1
<b>Total</b>	<b>1</b>
<b>Archaic</b>	
Unspecified	17
Early Large Side-Notched	1
Oxbow	4
McKean/Duncan/Hanna	7
Pelican Lake	5
<b>Total</b>	<b>34</b>
<b>Woodland</b>	
Unspecified	147
Middle Woodland	13
Besant/Sonota	11
Late Woodland	26
Arvilla	1
Blackduck	2
Sandy Lake	2
Devils Lake-Sourisford	1
<b>Total</b>	<b>203</b>
<b>Plains Village</b>	
<b>Total</b>	<b>14</b>
<b>Historic</b>	
Unspecified	10
Chippewa	5
Sioux	1
Euro-American	1
<b>Total</b>	<b>17</b>
<b>Unknown</b>	
<b>Total</b>	<b>83</b>

**Table 12.4: Inventory Projects in the Sheyenne River Study Unit, 5-Sept-2007.**

Year	First Author	Second Author	Title	Ms #
n.d.	Allen, W.		Arntson Allotment Spring Enclosure & Stock Tank Relocation, Ransom Co., ND	3964
n.d.	Allen, W.		Enclosure of Spring Source in Evanson Allotment, Ransom Co., ND	3965
n.d.	Allen, W.		J-Annex Dug-Out, Richland Co., ND	3966
n.d.	Allen, W.		Sheyenne Block, D-Allotment Dug-Out, Richland & Ransom Co., ND	3959
n.d.	Allen, W.		Spring Enclosure in the East I Allotment, Richland Co., ND	3962
n.d.	Allen, W.		Woodlot Demonstration Area, Richland Co., ND	3963
1890	Lewis, T.		Northwest Archeological Survey, Richland, Barnes, Oliver, McLean, Morton, Dickey, Ransom, LaMoure, Stutsman, Benson, Grand Forks, Walsh, & Pembina Counties, ND	4184
1947	Cooper, P.		Preliminary Appraisal of the Archeological & Paleontological Resources of Sheyenne Reservoir, ND	137
1948	Kivett, M.		Preliminary Appraisal of the Archeological & Paleontological Resources of the Baldhill Reservoir, ND, Griggs & Barnes Counties, ND	85
1964	Dill, C.		Field Trip Report, July, 1964: Indian Mounds, Dickey, LaMoure, Ransom Counties, ND	3954
1967	Cole, K.		Field Reports in Archaeology: #1-The Forest River Survey, #2-The Goose River Survey, #4-The Colony Mound, 32GF305, #5-The Turtle River Survey, #6-Miscellaneous Sites in Eastern ND	78
1973	Nelson, L.		Archaeological Survey in Portions of Southeastern ND, Northeastern SD, and West-Central MN, Sargent & Ransom Counties, ND	83
1974	Carmichael, G.		The Archaeological Survey Along the Proposed Route of Dome Pipeline in ND	93
1974	Schneider, F.		Archaeological Investigations in the Proposed Lonetree Reservoir, Garrison Diversion Unit, ND: 1973 Season, Wells & Sheridan Counties, ND	52
1974	Schneider, F.	R. Vehik	Archaeological Surveys in the Garrison Diversion Unit, ND	107
1975	Franke, N.		Report of the Archeological & Historic Site Reconnaissance Survey of Project No. F-3-002 ( ) 211, Rugby to Leeds, Pierce & Benson Counties	154
1975	Schneider, F.		Archaeological Investigations of Municipal & Industrial Water Supply Projects For Fessenden, Harvey, & Garrison, Wells & McLean Counties, ND	145
1976	Franke, N.		Cass Co., Electric Cooperative, Inc., Underground Line Route, Negative Declaration Survey Report, Ransom Co., ND	254
1976	Franke, N.		ND Highway Department Project CRS-767 (6), Ransom Co., Negative Declaration Survey Report	245
1976	Franke, N.		ND Highway Department Project No. F-3-002 ( ) 236 Negative Declaration Survey Report, Benson Co., ND	251
1976	Schneider, F.		Archaeological Investigations in the Proposed Lonetree Reservoir, Garrison Diversion Unit, ND: 1974 Investigations: Part 1, Wells & Sheridan Counties, ND	53
1977	Bailey, W.		Richmond Engineering Inc., Sheyenne River Crossing, Eddy Co., Negative Declaration Survey Report	274
1977	Dill, C.		ND Highway Department Project No. F-3-002( )271, F-6-002( )295 and F-6-002( )317, Devils Lake, Negative Declaration Survey Report	278
1977	Schneider, F.		Cultural Resource Inventory of Eggert's Landing, Lake Ashtabula, Barnes Co., ND	156

Year	First Author	Second Author	Title	Ms #
1977	Schneider, F.	K. Good et al.	Cultural Resource Inventory of Portions of the Central ND Section, Garrison Diversion Unit, ND, 1975, Field Season	98
1977	Schweigert, K.		Historic Sites Cultural Resource Inventory in the Devils Lake Region, Ramsey, Nelson, Eddy, & Benson Counties, ND	100
1978	Fox, R.		Archaeological Field Report: 1978 Fall Field Season and Rip Rap Operation Investigations, Lake Ashtabula, Barnes Co., ND	547
1978	O'Brien, L.	L. Loendorf et al.	A Cultural Resource Survey of the Proposed Otter Tail Transmission Line	310
1978	O'Brien, L.		Cultural Resource Inventory of the Proposed Courtenay Sewage Lagoon, Stutsman Co., ND	410
1978	UND		Cultural Resources Investigation of the Bank Stabilization Project Below Keye's Crossing, Lake Ashtabula, Barnes Co., ND	546
1978	Vehik, R.		An Archaeological Survey of Selected Portions of the Lower and Middle Sheyenne River Basin in ND	222
1978	Woolworth, A.	N. Woolworth	A Report on an Archaeological & Historical Reconnaissance Survey of the Great Lakes Gas Transmission Company Pipeline Route in ND & MN	306
1979	Dill, C.		Cultural Resources Inventory of Project No. F-3-281 ( ) 128, New Rockford North to Highway 57, Eddy & Benson Counties, ND	2654
1979	Fox, R.		Wolford Sewage Lagoon Survey, Pierce Co., ND	1011
1979	Fox, S.		Archeological Reconnaissance of the Barnes Co., Municipal Airport	926
1980	Fox, R.		1978-1979 Cultural Resource Investigations Along the Middle Sheyenne River Valley Including Lake Ashtabula & A Portion of the Sheyenne River, Vol. 1, Barnes Co., Griggs, & Steele Counties, ND	972
1980	Fox, R.		Class III Intensive Inventory for All Cultural Resources at the Proposed Ransom Co., Road & Bridge Area, Ransom Co., ND	1569
1980	Gregg, M.		Class III Intensive Inventory for all Cultural Resources at a Proposed Rock Quarry for Lake Ashtabula Shoreline Riprap, Barnes Co., ND	1538
1980	Gregg, M.		Class III Intensive Inventory for All Cultural Resources at Six Proposed Stockpile Areas Near Lake Ashtabula, Barnes Co., ND	1544
1980	Gregg, M.		Harvey Substation, Wells Co., ND: Class III Intensive Inventory for All Cultural Resources	1540
1980	Michlovic, M.		Archaeological Reconnaissance near Fort Ransom, Ransom Co., ND	1553
1980	Serrod, J.		Kindred Dam Impact-Early Rough Draft, Ransom Co., ND	2538
1981	Good, K.		Archaeological & Historic Cultural Resources Inventory for a Proposed Flood Control Project at Devils Lake, Ramsey Co., ND	2597
1981	Good, K.		Archaeological & Historic Cultural Resources Inventory for a Proposed Flood Control Project at Enderlin, Ransom & Cass Counties, ND	2598
1981	Good, K.		Erie Dam Wildlife Management Area Survey, Cass Co., ND	1738
1981	Michlovic, M.		Archaeological Reconnaissance at the Enderlin Wastewater Facilities Plan Site, Ransom Co., ND	1622
1981	Michlovic, M.		Archaeological Reconnaissance at the Harwood Wastewater Facilities Plan Site, Cass Co., ND	2537
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Year	First Author	Second Author	Title	Ms #
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1983	Withrow, B.		Cultural Resources Survey of Proposed Flood Control Project Area, Devils Lake, Ramsey Co., ND	3118
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1984	Kuehn, D.		A Report on the Intensive Cultural Resources Inventory of the Proposed Flood Control Project at Argusville, Cass Co., ND	3289
1984	Michlovic, M.		Cultural Resources Survey for the Casselton Wastewater Treatment Facility Expansion, Cass Co., ND	3747
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1986	Deaver, K.	B. Coutant	Cultural Resource Inventory of Portions of the New Rockford Irrigation Areas & the Sykeston Canal Route, Garrison Diversion Unit, Eddy & Wells Counties, Central ND	4183
1986	Gregg, M.	C. Kordecki	The Location of Tri-Co., Electric's ND-13-Foster Underground Power Line and Construction Effects on 32ED3	4105
1986	Haury, C.	F. Schneider	Cultural Resources Survey in the Sheyenne River Drainage (Contribution No. 230, Ransom, Cass, Barnes, & Griggs Co., ND	3665
1986	Kinney, J.	M. Gregg	Class III Intensive Cultural Resources Survey in the Campbell Ranch Training Area, Eddy Co., ND	4272
1986	Michlovic, M.		Archaeological Survey & Test Excavations in Cass Co., ND	4295
1986	Sato, J.		Archaeological Reconnaissance of the Western Area Power Administration's Jamestown to Grand Forks 115-kV Transmission Line Right-of-Way Located in Stutsman, Barnes, Griggs, Steele, & Grand Forks Counties, ND	4185
1987	Blasing, B.	B. Coutant	Class I & Class III Cultural Resource Surveys of Wildlife Mitigation Lands in Benson, Burleigh, Cavalier, Nelson, McLean, Ramsey, Sargent, Sheridan, Stutsman, Towner, & Wells Counties, ND	4549
1987	Blasing, B.		Class III Cultural Resource Survey of Two Tracts Associated with Landscaping at the Bureau of Reclamation's New Rockford Project Office, Eddy Co., ND	4440
1987	Coutant, B.		Report on a Class III Cultural Resource Survey of a Gravel Pit in Section 19, T149N, R75W Sheridan Co., ND	4444
1987	Granger, S.	S. Kelly	Final Report of the Lisbon Inventory Project ND Cultural Resources Survey 1986-1987, Ransom Co., ND	4281
1987	Hill, M.		Sheyenne Shoreline Survey, Ransom Co., ND	4357
1987	Hill, M.		Sheyenne Springs, Ransom Co., ND	4358
1987	Kordecki, C.	M. Gregg	Campbell Ranch Training Area Cultural Resources Survey, 1987, Eddy Co., ND	4271
1987	Michlovic, M.		Cooperstown's Planned Wastewater Treatment Facility Expansion, Griggs Co., ND	4424



Year	First Author	Second Author	Title	Ms #
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1987	Roberts, N.		Final Report on the 1986-1987 National Register Reconnaissance Survey of Valley City, Barnes Co., ND	4326
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1988	Banks, K.		A Cultural Resources Inventory of Five Proposed Gravel Pits, Ft. Totten Agency, Benson Co., ND	4460
1988	Borchert, J.		Barnes Co., Water Resource District Sanitary Sewer System Cultural Resource Survey	5658
1988	Deaver, K.	S. Deaver	Preliminary Report on Pedestrian Sample of the Sprint Line in Stutsman, Kidder, Stark, Billings, Cass, Golden Valley, Burleigh, & Morton Counties, ND	4595
1988	Deaver, K.	S. Deaver et al.	US Sprint Fiber Optic Cable Project Spokane, Washington to Fargo, Billings, Stark, Golden Valley, Morton, Kidder, Stutsman, Burleigh, & Cass Co., ND	4638
1988	Del Bene, T.		The Archaeological Inventory of a Proposed Extension of an Existing Borrow Area, Sheridan Co., ND	4591
1988	Del Bene, T.		The Archaeological Inventory of Three Park Improvement Projects at Devils Lake State Parks Ramsey & Benson Counties	4673
1988	Floodman, M.		Final Report of the Phase I Cultural Resources Investigation of a Proposed Flood Control Project Along the Sheyenne River, at West Fargo, Cass Co., ND	4504
1988	Ford, D.	D. Kuehn	USDA Soil Conservation Service Bush Township Critical Treatment Project Eddy Co., ND	4792
1988	Kordecki, C.		Evaluation of Two Bridges in Griggs Co., ND	4508
1988	Michlovic, M.		Embsden Lagoon Project, Cass Co.,	4681
1988	Schweigert, K.	R. Persinger et al.	A Class III Cultural Resource Inventory of the Winter Show Road, Valley City, Barnes Co., ND	4555
1988	Smith, G.		Fort Grafton Land Exchange: A Class III Inventory of Four Isolated Tracts of Public Land in Eddy Co., ND	4582
1988	Smith, G.		Oberon Land Exchange: A Class III Inventory of 4.14 Acres of Public Land in Benson Co., ND	4537
1988	Whitehurst, J	J. Dahlberg	A Class III Cultural Resource Inventory of a Five Mile Segment of Roadway in Benson & Ramsey Counties, ND	4703
1988	Whitehurst, J	J. Dahlberg	A Class III Cultural Resource Inventory of an Eight Mile Segment of Roadway in Benson Co., ND	4701
1989	Banks, K.		A Cultural Resource Inventory of a Fourth Fencing Segment, Lonetree Wildlife Development Area, Sheridan Co., ND	4749
1989	Banks, K.		A Cultural Resources Inventory of Projects in Six Wildlife Development Areas, Cavalier, Nelson, Burleigh, Stutsman, Towner, & Ramsey Counties, ND	4869
1989	Banks, K.		Goodrich Wildlife Development Area: A Cultural Resources Inventory of Two Proposed Wetland Improvement Projects, Sheridan Co., ND	4833
1989	Banks, K.		Tie A Yellow Ribbon Round the Old Lonetree: A Cultural Resource Inventory of Three Proposed Fencing Segments, Lonetree Wildlife Development Area, Sheridan Co., ND	4791
1989	Borchert, J.	L. Loendorf	Englevale MR&I Project Cultural Resources Inventory Ransom Co., ND	4812
1989	Del Bene, T.		The Archaeological Inventory of a Proposed Partial Realignment of the Souris-River Telephone Cable System Sheridan Co., ND	4741

Year	First Author	Second Author	Title	Ms #
1989	Del Bene, T.		The Cultural Resources Inventory of a Fence Segment Associated With the Pony Gulch Wildlife Development Area Wells Co., ND	4847
1989	Del Bene, T.		The Cultural Resources Inventory of Proposed Activity Within the Goodrich Wildlife Development Area in Sheridan Co., ND	4849
1989	Del Bene, T.		The Cultural Resources Inventory of Scattered Wildlife Development Activities in Burleigh, McLean, Ramsey, Sheridan, Stutsman, & Wells Counties, ND	5035
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1989	Floodman, M.		Archaeological Inventory of Portions of the Devils Lake Basin, Benson, Eddy, Nelson, & Ramsey Counties, ND	4700
1989	Floodman, M.		Cultural Resources Inventory of the Souris River Telephone Cable Replacement Related to the Lonetree Reservoir Project, Sheridan Co., ND	4852
1989	Floodman, M.		Grahams Island Recreation Area Cultural Resources Inventory Benson & Ramsey Counties, ND	4891
1989	Foster, J.	D. Kuehn	McLean-Sheridan Rural Water Pipeline Cultural Resources Survey Report	4897
1989	Good, K.		Highway 46 Improvement-Bridge #46-083.310 Replacement Project in Cass & Ransom Counties, Enderlin, ND	5231
1989	Good, K.		Minnewaukan Historic Sites Survey Along Highway 281 Through Minnewaukan, Benson Co., ND Highway 281, Curb/Gutter Resurfacing Project No. F-3-281(030)149	5057
1989	Good, K.		ND State Highway Department State Highway 3 Safety Improvement Project-Barrow Pit Areas, Pierce Co., A Class III Cultural Resources Survey	4859
1989	Good, K.		ND State Highway Department State Highway 30 Improvement Project-Barrow Pit Areas, Benson Co., A Class III Cultural Resources Survey	4860
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1989	Gregg, M.		Class III Intensive Inventories of the Shelver's Grove & Black Tiger Bay Recreation Areas & One Boat Launch Development Area at the Graham's Island Recreation Area, Ramsey Co., ND	4730
1989	Gregg, M.		Shelver's Grove, Black Tiger Bay, & Graham's Island Cultural Resource Surveys, Ramsey and Benson Counties, ND	6442
1989	Hill, M.		A Cultural Resources Survey for the Proposed South Durler Stocktank Location on the Sheyenne National Grassland, Ransom Co., ND	4762
1989	Kloberdanz, T.		Index of German-Russian Wrought-Iron Cross Sites in McHenry, McIntosh, Emmons, Ramsey, Logan, Burleigh, McLean, Benson, & Pierce Co. in Central ND	4906
1989	LaPoint, H.		Tony Brown Land Exchange, Ransom Co., ND	5025
1989	Michlovic, M.		Enderlin Wastewater Treatment Lagoon Impact Area in Ransom, Co., ND	4910
1989	Wenker, C.	J. Borchert	ND State Highway Department Sheyenne River Bridge Upgrading Class III Cultural Resource Inventory, Barnes Co., ND	4820
1990	Banks, K.		Lonetree Wildlife Development Area: A Cultural Resources Inventory of More Fencing Segments, Sheridan & Wells Counties, ND	5039

Year	First Author	Second Author	Title	Ms #
1990	Borchert, J.		HKM Associates Fort Totten Well Field Additional Work, Benson Co., ND	5274
1990	Deaver, S.	M. Bergstrom	Arsenic Ground Water Cultural Resources Survey in Richland, Sargent & Ransom Counties, ND	5061
1990	Del Bene, T.		A Cultural Resources Inventory of an Addition to Ziebach Pass State Park Devil's Lake, Benson Co., ND	5241
1990	Del Bene, T.		A Cultural Resources Reconnaissance of a Proposed Route for the LR2S Road Lonetree Wildlife Development Area, Sheridan & Wells Counties, ND	5072
1990	Edevold, M.	T. Edevold et al.	Red River Valley Archaeological Survey 1987, in Cass Co., ND	5323
1990	Floodman, M.		Evanson Allotment Spring Development & Stock Dam Sheyenne National Grasslands Section 24 T135N R54W Ransom Co., ND	5168
1990	Floodman, M.		Hanson Allotment Dune Stabilization Sheyenne National Grasslands Section 31, T134N R53W Ransom Co., ND	5171
1990	Floodman, M.		McLeod Allotment Dune Stabilization Sheyenne National Grasslands Section 35 T134N R53W Ransom Co., ND	5174
1990	Floodman, M.		Milton Senior Allotment Dune Stabilization Sheyenne National Grasslands Section 19 T134N R53W Ransom Co., ND	5175
1990	Floodman, M.		Northrup Allotment Dune Stabilization I Sheyenne National Grasslands Section 29 T134N R53W Ransom Co., ND	5176
1990	Floodman, M.		Northrup Allotment Dune Stabilization II Sheyenne National Grasslands Section 29 T134N R53W Ransom Co., ND	5177
1990	Floodman, M.		Penberthy Allotment Windmills Sheyenne National Grasslands Section 25 T135N R54W Ransom Co., ND	5184
1990	Floodman, M.		Wall Allotment Windmills Sheyenne National Grasslands Sections 28 & 33 T135N R53W Ransom Co., ND	5191
1990	Good, K.		Dead Colt Creek in Ransom Co., Cultural Resources Inventory Report	5074
1990	Haury, C.		In the Footsteps of T.H. Lewis: Retracing of the Northwestern Archaeological Survey in Oliver, Benson, Grand Forks, Pembina, Ransom, Richland, LaMoure, Morton, Stutsman, & Barnes Counties, ND	5322
1990	Klinner, D.	J. Borchert	Class III Cultural Resource Inventory For the Williston Basin 8" Natural Gas Pipeline in Barnes and Cass Counties of ND	5347
1990	Klinner, D.	J. Borchert	Fort Totten Water Distribution System, Benson Co., ND	5348
1990	Klinner, D.	J. Borchert	Sheyenne Valley Electric Cooperative, Inc. Project 328-Underground Distribution Cable Cultural Resource Inventory Griggs Co., ND	5109
1990	Olson, B.		Farmers Home Administration Preliminary Report Block Survey of the W½, Section 32, T139N, R54W. Cultural Resources Inventory Cass Co., ND	5155
1990	Peterson, L.	J. Borchert	Cultural Resource Inventory of the Sheyenne Valley Electric Cooperative, Inc. Overhead Powerline Project Within the Fort Totten Indian Reservation Benson, ND	5131
1990	Peterson, L.	J. Borchert	Draft Final Report on the Fort Totten Well Field Cultural Resource Inventory, Benson Co., ND	5270
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Year	First Author	Second Author	Title	Ms #
1990	Schweigert, K.		Cenex Pipeline Company Fargo Extension, Steele, Griggs, Foster, Cass, Barnes, Eddy, Wells, Pierce, McHenry, & Ward Counties, Class III Cultural Resource Survey	5443
1990	Schweigert, K.	R. Persinger	Langdon Rural Water Users Phase II Cultural Resource Inventory Cavalier, Pembina, Ramsey & Walsh Counties ND - Final Report Vols. II & III-Also Phase II, Pts. 1 & 2	4928
1990	Späth, C.		Eddy Co., Route 1 (F.A.S. 1404) Co., Road Project, Class III Cultural Resource Inventory	5087
1990	Späth, C.		Proposed Bridge #142-18.0, Red River Crossing at Cass Co., Road #22, ND Cultural Resource Inventory	5064
1990	Wermers, G.	J. Borchert	Access Road to the Little Hoop Community College, Benson Co., ND	5261
1990	Wermers, G.	J. Borchert	Matohin Road Alignment (BIA Permit #AAO-248/FT/90), Benson Co., ND	5915
1991	Borchert, J.		Williston Basin 8" Natural Gas Pipeline Reroute in Barnes Co., ND Cultural Resource Inventory	5698
1991	Burbidge, G.	J. Borchert	The 1991 McLean-Sheridan Water Pipeline Sheridan Co., ND	5576
1991	Charles, J.		Devils Lake Tribal Headstart/Daycare Construction Project, Benson Co., ND	5564
1991	Chevance, N.		Intensive Cultural Resources Inventory of a Bingo Palace Project, Fort Totten Agency, Benson Co., ND	5626
1991	Christensen, R.		Cenex Pipeline Company Fargo Extension Class III Cultural Resource Survey Additional Survey of Nine Pipeline Reroutes in McHenry, Pierce, Ward & Wells Counties, ND	5591
1991	Christensen, R.		Grahams Island Gravel Pit, Benson Co.: A Class III Cultural Resource Inventory	5438
1991	Christensen, R.		ND 57: A Class III Cultural Resources Inventory South of Devils Lake, Benson Co., ND F-3-057(005)000	5686
1991	Driscoll, P.	M. Gregg	1991 Wildlife Development Area Surveys in Central and Eastern ND in McLean, Wells, & Sargent Counties	7054
1991	Driscoll, P.	M. Gregg et al.	Wildlife Development Area Surveys in Nelson, Ramsey, Benson, Towner, McLean, Burleigh, Cavalier, Sheridan, Stutsman, & Wells Counties, ND	5303
1991	Floodman, M.		East I Allotment Spring Development Sheyenne National Grasslands Sections 11 and 2, T135N, R52W Richland Co., ND	5526
1991	Floodman, M.		Ekre Windmill Sheyenne National Grasslands Section 23, T135N, R53W Ransom Co., ND	5527
1991	Floodman, M.		Hakanson Allotment Improvements Sheyenne National Grasslands Sections 14, 15, & 16 T134N R53W, Ransom Co., ND	5529
1991	Floodman, M.		McLeod Allotment and Wall Allotment Dune Stabilization Projects Sheyenne National Grasslands Section 33, T135N, R53W & Section 34 T134N R53W, Ransom Co., ND	5532
1991	Pool, K.		Camp Grafton South Expansion Cultural Resource Survey, Eddy Co., ND	5456
1991	Pool, K.		Ramsey Co., Rural Water System: A Class III Cultural Resource Inventory in the Devils Lake Region, Ramsey & Towner Counties, ND	5797
1991	Stine, E.		Camp Grafton South: A Class III Intensive Pedestrian Survey For Cultural Resources, Eddy Co., ND	5601
1991	Stine, E.		Sewage Lagoon Expansion Fort Totten Reservation Benson Co., ND Class III Cultural Resource Inventory	5818
1992	Banks, K.		The Straight and Narrow-A Cultural Resources Inventory of the LR2S Road, Sheridan & Wells Counties, ND	5854

Year	First Author	Second Author	Title	Ms #
1992	Blikre, L.		Fort Totten, Benson Co., Water Distribution System, Relocation Areas, Class III Cultural Resource Inventory	5783
1992	Borchert, J.	G. Wermers	Williston Basin 8" Natural Gas Pipeline Reroute in Barnes Co., ND Class III Cultural Resource Inventory	5786
1992	Christensen, R.		ND 57: A Class III Cultural Resources Inventory South of Devils Lake, Benson Co.: Addendum	5963
1992	Christensen, R.		US Highway 281 Archaeology: Class III Cultural Resource Inventory in Rolette Co., ND	5966
1992	Driscoll, P.	M. Gregg	1992 Wildlife Development Area Surveys in Ramsey, Sheridan, Sargent, and McLean Counties, Central & Eastern North Dakota	5881
1992	Driscoll, P.	M. Gregg	A Class III Inventory of Portions of Proposed Regrading & Surfacing Project DPI-0167(001)321, Nelson Co., ND	5726
1992	Floodman, M.		D Allotment Windmill Sheyenne National Grasslands Section 20, T135N, R52W Richland Co., ND	5865
1992	Floodman, M.		Venlo Allotment Windmill Sheyenne National Grasslands Section 1 T134N R54W & Section 6 T134N R53W Ransom Co., ND	5872
1992	Johnson, L.	M. Hufstetler et al.	Historic Bridges in ND	5920
1992	Kinney, J.	T. Larson et al.	Results of the 1991-1992 Class III Cultural Resource Inventory of Selected Bureau of Land Management Tracts, Divide, McHenry, Williams, Pierce, McKenzie, Ward, Benson, Grant, Sheridan, & McLean Co., ND Vols. I & II	5904
1992	Michlovic, M.		Cultural Resources Survey (Class III) Fort Ransom Ski Area, Ransom Co., ND	5916
1992	Penny, D.		Larson-Tibesar Associates, Inc. Cultural Resource Inventory Report For Portions of Eddy Co., Road #1	5855
1992	Stine, E.		Addendum to: Ramsey Co., Rural Water System: A Class III Cultural Resource Inventory in the Devils Lake Region, Benson, Ramsey & Towner Counties, ND	5801
1992	Stine, E.		Cass Co., Highway #16 A Class III Cultural Resource Inventory West of Davenport, ND	5806
1992	Stine, E.		Communication Tower in Ransom Co., ND A Class III Cultural Resource Inventory	5808
1992	Stine, E.		Dakota Central Telecommunications Cooperative Fiber Optics Line: A Cultural Resource Inventory in Stutsman, Eddy & Foster Counties, ND	5990
1992	Wermers, G.		Class III Cultural Resource Inventory For Three Williston Basin 8" Natural Gas Pipeline Reroutes in Barnes and Cass Counties of ND	5781
1993	Banks, K.		The Fort Totten Operation and Maintenance Facility: A Cultural Resources Inventory Fort Totten Indian Reservation, Benson Co., ND	6170
1993	Banks, K.		The Juanita Lake Access Road: A Cultural Resources Inventory Foster Co., ND	6261
1993	Driscoll, P.	C. Kordecki	Nelson Co., Road No. 4 Class III Cultural Resources Inventory	6064
1993	Driscoll, P.	C. Kordecki	Wildlife Development Area Surveys in Walsh & Cavalier Counties in Northeastern ND	6075
1993	Kordecki, C.	D. Toom	A Cultural Resources Survey of a Portion of a Proposed New Alignment For Steele Co., Road No. 18, ND	6013
1993	Kulevsky, A.		Harvey Sand & Gravel Borrow Pit Location: A Class III Cultural Resource Inventory in Griggs Co., ND	6300
1993	Larson, T.		Larson-Tibesar Associates, Inc. Cultural Resource Inventory Report For A Maintenance Building, Valley City Golf Course, Barnes Co., ND	5953
1993	Lewis, R.		Accessibility Projects, Cass, Stutsman and Eddy Counties, ND	6089

Year	First Author	Second Author	Title	Ms #
1993	Martorano, M.	T. Anderson	Cultural Resources Survey Report Class III Cultural Resource Inventory Item No. 1, Ten Microwave Repeater Sites, ND	6090
1993	Michlovic, M.		Cultural Resources Survey (Class III) in the Floodpool Area of the Proposed Maple River Dam, Ransom & Cass Co., ND	5864
1993	Olson, B.		USDI Bureau of Indian Affairs Fort Totten Indian Reservation Proposed Kraft Borrow Area Cultural Resources Inventory Benson Co., ND	6217
1993	Otto, R.	F. Quivik	Cultural Resources Survey of Camp Grafton South, Including Portions Of Camp Grafton Proper, Ramsey & Eddy Counties, ND Vol. 1	5219
1993	Stine, E.		Jardine Bridge Replacement A Class III Cultural Resource Inventory Cass Co., ND	5994
1993	Stine, E.		Ramsey Co., Rural Water Phase II: A Reconnaissance Survey in Benson, Nelson, & Ramsey Counties, ND	5997
1993	Wermers, G.	J. Borchert	Redevelopment of Three ND Department of Transportation Rest Areas, Ramsey & Morton Counties, ND, Class III Cultural Resource Inventory	6203
1994	Kinney, W.		Barnes Co., Highway #22 Borrow Area, For Holen Construction, McClusky, ND Project #CER-0222(52) A Cultural Resource Report of an Intensive Class III Survey	6379
1994	Kinney, W.		Borrow Area in Barnes Co., (NDDOT Project #CER-0222(52) A Cultural Resource Report of an Intensive Class III Survey For Kadrmas, Lee, & Jackson PC	6279
1994	Kinney, W.		Borrow Area in Barnes Co., For Star Enterprises Project #FIM-2-094(026)288 A Cultural Resource Report of an Intensive Class III Survey for Star Enterprises, Valley City	6278
1994	Kinney, W.		Star Enterprises Borrow Areas, Barnes Co., Project #FIM-2-094(026)288 A Cultural Resource Report of an Intensive Class III Survey for Star Enterprises, Valley City	6325
1994	Kinney, W.		The Barnes Co., River Road Project SC-0219(56). The Results of a Class III Cultural Resource Inventory for Kadrmas, Lee & Jackson, P.C., Valley City, ND	6380
1994	Kordecki, C.		Fort Ransom State Park Intensive Cultural Resources Inventory, Ransom Co., ND	6221
1994	Kulevsky, A.		Blumer Construction Company Borrow Pit: A Class III Cultural Resource Inventory In Barnes Co., ND	6211
1994	Kulevsky, A.		Fisher Sand & Gravel's Heinze Gravel Pit: A Class III Cultural Resource Inventory in Griggs Co., ND	6295
1994	Miller, J.		A Cultural Resource Inventory Report For the Schatz Property, Sheridan Co., ND	6254
1994	Murdy, C.		The Devils Lake Sioux Tribe Casino Site: A Class III Cultural Resource Inventory on the Fort Totten Indian Reservation, Benson Co., ND	6288
1994	Olson, B.		American Contracting Nelson Co., Borrow Area Cultural Resources Inventory Nelson Co., ND	6356
1994	Snortland, J.		Rosalee Baer Homesite Class III Cultural Resources Survey Fort Totten, Benson Co., ND	6346
1994	Toom, D.		Bridge Replacements, Archeological Sites, & Archeological Site Surveys in ND	6249
1995	Borchert, J.		Devils Lake Flood Damage Highway 20 Across the Narrows, Benson Co., Class III Cultural Resource Inventory	6507
1995	Borchert, J.		Devils Lake Flood Damage Highway 20 by Spring Lake, Benson Co., Class III Cultural Resource Inventory	6577
1995	Borchert, J.		Devils Lake Flood Damage Highway 281 North of Highway 19, Benson Co., Class III Cultural Resource	6576

Year	First Author	Second Author	Title	Ms #
			Inventory	
1995	Borchert, J.		Devils Lake Flood Damage Highways 19 & 281 Borrow Areas, Benson Co., Class III Cultural Resource Inventory	6505
1995	Borchert, J.		Kulm Flood Damage Highway 56 Borrow Area, LaMoure & Dickey Counties, Class III Cultural Resource Inventory	6508
1995	Borchert, J.		ND Department of Transportation Material Source Projects Cultural Resource Review 1989-1994	6509
1995	Borchert, J.		ND Department of Transportation Safety Project Cultural Resource Review 1992-1994	6449
1995	Driscoll, P.	C. Kordecki	Nelson Co., Borrow Area SR-9 Class III Cultural Resources Inventory	6440
1995	Floodman, M.		Hanson Allotment Dune Stabilization Sheyenne National Grasslands Ransom Co., ND	6552
1995	Floodman, M.		North Durler Allotment Flowing Well Sheyenne National Grasslands Ransom Co., ND	6557
1995	Floodman, M.		Wall Allotment Pipeline & Tank Sheyenne National Grasslands Ransom Co., ND	6551
1995	Kinney, W.		Bridge (112-30) Replacement Project in Steele Co., ND A Report of a Class III Cultural Resource Inventory for the Proposed Co., Highway Project DPI-0036(002)463	6622
1995	Kinney, W.		Devils Lake-Stump Lake Emergency Outlet in Nelson Co., ND an Intensive Class III Cultural Resource Survey Report for the ND State Water Commission	6546
1995	Kinney, W.		Ranas/Qual Farms, Animal Waste System, Ransom Co., ND a Report of an Intensive Class III Cultural Resource Inventory for the Ransom Co., Water Resources Board	6542
1995	Kinney, W.		Sunset Village, a Housing Project in Lisbon, Ransom Co., ND a Report of an Intensive Class III Cultural Resource Inventory for the Southeast ND Community Action Agency, Fargo, ND	6543
1995	Kinney, W.		The B-2 Borrow Area A Class III Cultural Resource Inventory Report for NDDOT Project #SER-3-020(025)088 In Benson Co., ND Contracted by Holen Construction McClusky, ND	6572
1995	Kinney, W.		The Hulstrand Borrow Area Survey: A Report of a Class III Cultural Resource Inventory for NDDOT Project #SER-3-281(044)162 Benson Co., ND	6573
1995	Kinney, W.		The Larson Bridge Replacement Project Bridge 131-08 A Report on a Class III Cultural Resource Inventory for the Planned Ransom Co., Highway Improvement Project DPI-0036(002)371 in Ransom Co., ND	6574
1995	Kinney, W.		Viking View Resort A Report on a Class III Cultural Resource Inventory for a Proposed Rental Unit Development In Fort Ransom Ransom Co., ND for Buffalo City Wood Products Jamestown, ND	6575
1995	Kordecki, C.		Electrical Distribution Line Cultural Resources Inventory in Richland Co., ND	6564
1995	Kordecki, C.		Log Piles of Cass, McHenry, Ransom & Walsh Counties ND, Cultural Resources Inventory	6565
1995	Kordecki, C.		Nesting Islands Survey of 43 Borrow Areas in an 11 Co., Area of Central North Dakota	6441
1995	Kordecki, C.		Sheyenne River Clearing & Snagging Project Cultural Resources Survey at Lisbon, Ransom Co., ND, 1994 Field Season	6425
1995	Kulevsky, A.		American Contracting's Blumquist Gravel Pit: A Class III Cultural Resource Inventory in Ramsey Co., ND	6582
1995	Kulevsky, A.		American Contracting's Edmore Gravel Pits: A Class III Cultural Resource Inventory in Ramsey Co., ND	6583

Year	First Author	Second Author	Title	Ms #
1995	Kulevsky, A.		American Contracting's Ft. Totten Borrow Pit: A Class III Cultural Resource Inventory in Benson Co., ND	6584
1995	Kulevsky, A.		American Contracting's Ft. Totten Gravel Pit: A Class III Cultural Resource Inventory in Benson Co., ND	6579
1995	Kulevsky, A.		American Contracting's Highway 17 Gravel Pit: A Class III Cultural Resource Inventory in Ramsey Co., ND	6585
1995	Kulevsky, A.		American Contracting's Kraft Borrow Pit: A Class III Cultural Resource Inventory in Benson Co., ND	6580
1995	Kulevsky, A.		American Contracting's Smith Gravel Pits: A Class III Cultural Resource Inventory in Eddy Co., ND	6581
1995	Kulevsky, A.		American Contracting's Thors Lake Borrow Area: A Class III Cultural Resources Inventory in Benson Co., ND	6620
1995	Kulevsky, A.		American Contracting's Waste Deposit Location: A Class III Cultural Resource Inventory in Barnes Co., ND	6476
1995	Kulevsky, A.		Black Tiger Bay Boat Ramp: A Class III Cultural Resource Inventory in Benson Co., ND	6477
1995	Kulevsky, A.		Blumer Construction's Borrow Pit: A Class III Cultural Resource Inventory in Barnes Co., ND	6587
1995	Kulevsky, A.		East Bay Boat Ramp: A Class III Cultural Resource Inventory in Ramsey Co., ND	6480
1995	Kulevsky, A.		Fisher's Togstad Gravel Pit: A Class III Cultural Resource Inventory in Benson Co., ND	6596
1995	Kulevsky, A.		Midwest Engineering Edmore Bridge Replacement: A Class III Cultural Resource Inventory in Ramsey Co., ND	6499
1995	Kulevsky, A.		Prairielands ADM Natural Gas Pipeline: A Class III Cultural Resources Inventory in Cass & Ransom Counties, ND	6605
1995	Kulevsky, A.		R.S.R. Electrics 1995-1998 Construction Plan: A Class II and Class III Cultural Resource Inventory in Ransom, Richland & Sargent Counties, ND	6500
1995	Kulevsky, A.		Six Mile Bay Boat Ramp: A Class III Cultural Resource Inventory in Ramsey Co., ND	6502
1995	Kulevsky, A.		Wold Engineering's Anamoose Road: A Class III Cultural Resource Inventory in Pierce Co., ND	6609
1995	Lewis, R.		Small Projects-Sullys Hill Game Preserve, Benson Co., ND	6473
1995	Michlovic, M.		Cultural Resources Survey for the Rivertree Park Subdivision in Harwood, Cass Co., ND	6466
1995	Michlovic, M.		Cultural Resources Survey of the Lisbon Industrial Development Area City of Lisbon, Ransom Co., ND	6563
1995	Newberry, G.		Proposed United Power Association's DV Line Relocation Cultural Resource Inventory Benson and Ramsey Counties, ND	6548
1995	Snortland, J.		Evergreen Lane Emergency Watershed Protection (Cass 17-001A) Class III Cultural Resources Survey Cass Co., ND	6432
1995	Temme, V.	D. Winkler, et al.	Historical & Architectural Documentation Reports of Finley Air Force Station, Finley, Steele Co., ND	6686
1996	Borchert, J.		Emergency Borrow for Highways 20 and 57 in the Devils Lake Area, Benson Co., Class III Cultural Resource Inventory	6879
1996	Borchert, J.		Highway 52 Harvey to Drake Class III Cultural Resource Inventory	6684
1996	Good, K		ND Army National Guard Unit Training Area Class III Cultural Resource Inventory Work Order #A283378 in Eddy Co., ND	6859



Year	First Author	Second Author	Title	Ms #
1996	Kinney, W.		Ransom Co., Emergency Highway Improvement Project, a Class III Cultural Resource Inventory for NDDOT Project #CER-3715(55) in Ransom Co., ND Contracted by the Ransom Co., Auditor	6675
1996	Kinney, W.		A Class III Cultural Resource Inventory of Six Proposed Borrow Areas for Project #CER-3607(51) in Benson Co., ND	6705
1996	Kinney, W.		Report of a Class III Cultural Resource Inventory of Two Proposed Borrow Pits for NDDOT Project #'s BRC-0221(59) and CER-0221(060) in Barnes Co., ND For Star Enterprises, Valley City, ND	6805
1996	Kinney, W.		Results of a Class III Cultural Resource Inventory for NDDOT Project #SAT-3-019(008)138 in Benson Co., ND For Gratech Company, Ltd., Berthold, ND	6704
1996	Kinney, W.		Results of a Class III Cultural Resource Inventory for the Proposed Gravel Pit SAP-3-019(008)138 Benson Co., ND For Gratech Company, Ltd, Berthold, ND	6677
1996	Kinney, W.		Results of a Class III Cultural Resource Inventory of a Proposed Borrow Site in Ramsey Co., ND For NDDOT Project #CER-0353(51) Benson Co., ND	6751
1996	Kinney, W.		Results of the Class III Cultural Resource Inventory of Six Proposed Borrow Areas for the Devil's Lake Levee Raise. Project No. DACW37-96-C-0025, Ramsey Co. For Wanzek Construction, Inc., Fargo, ND	6806
1996	Kinney, W.		Three Borrow Pit Areas West of Langdon, ND in Cavalier Co., Results of a Class III Cultural Resource Inventory for NDDOT Project #CER-1013(53) Mikkelson Brothers Construction, Langdon, ND	6808
1996	Kinney, W.		Two Nelson Co., Borrow Areas. A Class III Cultural Resource Inventory for NDDOT Project #CER-3204(056) for Hulstrand Construction, Lakota, Nelson Co., ND	6852
1996	Klinner, D.	D. Toom	Maple River Alternate Dams Class I & Class II Cultural Resources Inventory, Cass Co., ND	6654
1996	Kordecki, C.	D. Toom	Drift Prairie Freshwater Lakes Sample Survey Project at Lake Jessie, Griggs Co., & Spiritwood Lake, Stutsman Co., ND, 1995 Field Season	6717
1996	Kordecki, C.		Wildlife Development Areas in McLean, Sheridan, & Wells Counties, ND, 1996 Cultural Resources Inventory	6869
1996	Kulevsky, A.		Hulstrand's Binford Borrow Pit: A Class III Cultural Resource Inventory in Griggs Co., ND	6742
1996	Kulevsky, A.		Hulstrand's Opegard Borrow Pit: A Class III Cultural Resource Inventory in Barnes Co., ND	6743
1996	Kulevsky, A.		Wold's Towner Co., ND Bridge Replacement: A Class III Cultural Resource Inventory	6777
1996	Larson, T.		A Cultural Resource Inventory for the ND Army National Guard: The Langley Property, Sheyenne River Study Unit Eddy Co., ND	6814
1996	Larson, T.		Results of a Phase I Cultural Resources Investigation for the Proposed Devils Lake Levee Raise, Tie Back Levee Work, & Potential Borrow Areas, Ramsey Co., ND	6791
1996	Michlovic, M.		Cultural Resources Survey of the Casselton Wastewater Pond Expansion, Casselton, Cass Co., ND	6821
1996	Picha, P.	F. Swenson	Camp Grafton Biathlon Range Class III Survey, Ramsey Co., ND	6736
1996	Scott, J.		Fisher's Aberly Gravel Pit: A Class III Cultural Resource Inventory in Barnes Co., ND	6709
1996	Stine, E.		Lynchburg Bridge Replacement: A Class III Cultural Resource Inventory in Cass Co., ND	6744
1996	Stine, E.		Old Highway 10 Borrow Pit: A Class III Cultural Resource Inventory in Barnes Co., ND	6780

Year	First Author	Second Author	Title	Ms #
1996	Stine, E.		Two Hulstrand Borrow Pits: A Class III Cultural Resource Inventory in Barnes Co., ND	6747
1997	Borchert, J.		Eight Emergency Borrow Areas for Highways 20 and 57 in Benson Co., Class III Cultural Resource Inventory	7103
1997	Christensen, R.		Devils Lake Archaeology: Court Lake Survey, Benson Co., ND	7084
1997	Coutant, B.		Lonetree Elysium Class III Cultural Resources Survey Wells Co., ND	6878
1997	Good, K.		ND Army National Guard Unit Training Area Class III Cultural Resource Inventory Work Order # A326876, Eddy Co., ND	7009
1997	Graham, C.		Graham's Island Road Relocation & Associated Borrow Location, Benson Co., ND	6911
1997	Graham, C.	T. Fuller	Rolla Sewage Lagoon Expansion Class III Cultural Resource Inventory Rolette Co., ND	6913
1997	Graham, C.		Two Proposed Borrow Locations on Graham's Island, Benson Co., ND	6901
1997	Kinney, W.		A Proposed Devils Lake Levee Raise Stage III Borrow Area. An Additional Borrow Area for Contract No. DACW37-97-C0007, Ramsey Co., ND	6985
1997	Kinney, W.		A Class III Cultural Resource Inventory for Two Proposed Cass Co., Borrow Areas for NDDOT Project #SBRI-8-094(013)317 in Cass Co., N D	7076
1997	Kinney, W.		Class III Cultural Resource Inventory for the Proposed Replacement of Cass Co., Bridge No. 130.23.0. NDDOT Project No. BRC-093(54)	7018
1997	Kinney, W.		Class III Cultural Resource Inventory for the Proposed Replacement of Cass Co., Bridge No. 138-18.0. NDDOT Project No. DPI-0036(004)091	7019
1997	Kinney, W.		Class III Cultural Resource Inventory of Three Borrow Areas for the Devils Lake Levee Raise Stage II in Ramsey Co. Contract No. DACW37-97-C-0007.	6922
1997	Kinney, W.		Dakota Water Users-Aneta Expansion A Class III Cultural Resource Inventory of Approximately 4.5 Miles of Proposed Water Pipeline in Nelson, Griggs, & Steele Counties, ND	6923
1997	Kinney, W.		Hoyt Construction Borrow Area. Class III Cultural Resource Inventory of a Proposed Borrow Area in Griggs Co. N.D. for NDDOT Project Number CER-2010(53)	6924
1997	Kinney, W.		Northern Plains Railroad Borrow Areas. A Class III Cultural Resource Inventory of Three Proposed Borrow Areas in Ramsey Co., N.D.	6954
1997	Kinney, W.		Peterson Borrow Area. A Report of a Class III Cultural Resource Inventory in Benson Co., ND	6957
1997	Kinney, W.		Six Proposed Levee Sites for the Devils Lake Levee Raise, Phase 1. A Class III Cultural Resource Inventory of Sites 1 Through 6, Ramsey Co., ND	6986
1997	Kinney, W.		The Barr Engineering Sewer Project. A Class III Cultural Resource Inventory and Evaluation of Site 32RY380 in Ramsey Co., ND	6987
1997	Kinney, W.		The Creel Township Levee Alignment, Phase 1. A Class III Cultural Resource Inventory of the Dry Portions of its Route.	6988
1997	Kinney, W.		The Guthmiller Borrow Area, Benson Co., ND. A Class III Cultural Resource Inventory of a Proposed Borrow Area for NDDOT Project #SEA-3-281(046)157	6925
1997	Kinney, W.		Three Proposed Borrow Areas for the Devils Lake Levee Raise. A Class III Cultural Resource Inventory Report. (Proj. #DACW37-96-C-0025), Ramsey Co., ND	7023

Year	First Author	Second Author	Title	Ms #
1997	Kordecki, C.	J. Bales	Radio Tower Locations in a Multi-County Area of Central and Southeastern ND: 1995 and 1996 Cultural Resources Inventory	6860
1997	Larson, T.		Results of a Phase I Cultural Resources Investigation of Two Levee Alignments at Devils Lake, Ramsey Co., ND	6959
1997	Olson, B.		Joel Olson Property Class III Cultural Resource Inventory, Wells Co., ND	6952
1997	Olson, B.		ND National Guard Leased Property in Eddy Co., ND: A Class III Cultural Resources Inventory	6928
1997	Scott, J.		Four Spirit Lake Gravel Pits on the Fort Totten Indian Reservation: A Class III Cultural Resource Inventory, Benson Co., ND	6969
1997	Scott, J.		Gravel Products, Inc. Heimdahl Gravel Pit: A Class III Cultural Resource Inventory in Wells Co., ND	6935
1997	Scott, J.		Holen's Two Borrow Areas: A Class III Cultural Resource Inventory, Barnes Co., ND	6990
1997	Scott, J.		North Harlow Gravel Pit: A Class III Cultural Resource Inventory, Benson Co., ND	6975
1997	Scott, J.		Polar Communications 1997 Construction Survey: Level II & III Cultural Resources Inventories in Four Northeastern Counties: Grand Forks, Nelson, Ramsey, & Walsh, ND	7049
1997	Scott, J.		Rolla Water Treatment Facility Expansion, Parcel Number Two, Level III Cultural Resource Inventory Rolette Co., ND	7027
1997	Scott, J.		Wanzek Borrow Area: A Class III Cultural Resource Inventory, Cass Co., ND	6976
1997	Swenson, F.	P. Picha	Camp Grafton Wastewater System Cultural Resource Survey, Ramsey Co., ND	7006
1997	Wermers, G.		Burke-Divide Electric Cooperative, Inc. Electric Facilities Replacement Project in Burke & Divide Counties, ND	7117
1997	Wermers, G.		Co., Road Improvement Project in Cass Co., ND	7069
1997	Wermers, G.		Spirit Lake Nation MR&I Reroute Class III Cultural Resources Inventory, Benson Co., ND	7138
1998	Banks, K.		Green, Green Rocky Road, A Cultural Resources Inventory of a Borrow Area North of McClusky, Sheridan Co., ND	7175
1998	Borchert, J.		Indian Health Service Fort Totten Clinic Class III Cultural Resource Inventory, Benson Co., ND	7305
1998	Floodman, M.		USDA Forest Service Dakota Prairie Grasslands Report to ND SHPO: Project Effects to Cultural Resources Sites, Sheyenne Road Repairs in Ransom & Richland Counties, ND	7264
1998	Kinney, W.		A Class III Cultural Resource Inventory of Both ROWs of US Highway 281 From the Intersection with ND Highway 17 at Cando, ND North to the Intersection with ND Highway 5 at Rock Lake in Towner Co., ND	7271
1998	Kinney, W.		A Proposed Sheridan Co., Borrow Area. A Class III Cultural Resource Inventory Report For NDDOT Number MER-1-200(015)239	7121
1998	Kinney, W.		Class III Cultural Resource Inventory Report of an Urban Survey of the Cando City Section, Cando, ND in Towner Co. NDDOT Project No. NH-3-281(061)190	7272
1998	Kinney, W.		Mapleton, Cass Co., N.D. Dike Alignment (Flood Control Project 98-1), A Class III Cultural Resource Inventory Report	7129
1998	Kinney, W.		ND Highway 38 Rows Survey. A Class III Cultural Resource Inventory From Page, ND North to ND Highway 32. Cass & Steele Counties, ND	8733
1998	Kinney, W.		Proposed Borrow Area NDDOT Project No. NH-8-013(026)338, Ransom Co., ND, A Class III Cultural Resource Inventory Report	7170

Year	First Author	Second Author	Title	Ms #
1998	Kinney, W.		Proposed Route of a New 115 kV Transmission Line Near Valley City, Barnes Co., ND, A Class III Cultural Resource Inventory	7238
1998	Kinney, W.		The Casselton, Cass Co., ND Dike Improvement, Flood Control District 98-1. A Class III Cultural Resource Inventory Report	7130
1998	Kinney, W.		Two Wells Co., ND Borrow Pits for NDDOT Project Number AC-SS-4-003(005)164. A Class III Cultural Resource Inventory	7172
1998	Kordecki, C.		Lake Alice National Wildlife Refuge & Halverson & Billings Lake Waterfowl Production Areas in Ramsey, Towner, & Cavalier Counties, ND, 1998 Cultural Resources Inventories	7352
1998	Larson, T.		Addendum: 1998 Cultural Resource Investigations for the Ransom-Sargent Water Project (in Ransom, Sargent, LaMoure & Barnes Counties, ND)	9078
1998	Larson, T.		Results of a Class II & Class III Cultural Resource Inventory for NDDOT Project Area NH-3-002(061)282, Ramsey & Nelson Counties, ND	7275
1998	Larson, T.		Results of a Class II & Class III Cultural Resource Inventory for NDDOT Project Area NH-4-052(030)167, Wells Co., ND	7278
1998	Larson, T.		Results of a Class II & Class III Cultural Resource Inventory for NDDOT Project Area SS-2-020(010)027, Foster & Stutsman Counties, ND	7281
1998	Larson, T.		Results of a Class II & Class III Cultural Resource Inventory for NDDOT Project Area SS-8-018(036)055 Cass Co., ND	7284
1998	Larson, T.	D. Penny et al.	Results of a Class II & III Cultural Resource Inventory for Ransom-Sargent Water Users, Inc., Barnes, Cass, Dickey, LaMoure, Ransom & Sargent Counties, ND, Vols. I & II	9093
1998	Larson, T.		Results of a Class II/Class III Cultural Resource Inventory for the All Seasons Water Project in Cavalier, Rolette & Towner Counties, ND	7351
1998	Larson, T.		Results of a Class III Cultural Resource Inventory for NDDOT Project Area NH-3-002(064)248, Benson & Ramsey Counties, ND	7181
1998	Larson, T.	D. Penny	Results of an Intensive Cultural Resource Inventory for Proposed Park Construction Borrow Areas, Spirit Lake Sioux Reservation, Benson Co., ND	7168
1998	Morrison, J.		Lisbon Strawboard Plant Facility: A Class III Cultural Resource Inventory, Ransom Co., ND	7298
1998	Morrison, J.		Valley City Technological Facility Location: A Class III Cultural Resource Inventory, Barnes Co., ND	7244
1998	Ollendorf, A.	D. Higginbottom et al.	Cultural Resources Management Investigation: Proposed Marina and Resort on the Devils Lake Indian Reservation, Benson Co., Devils Lake, ND Phase I (Class III) Investigation	7174
1998	Picha, P.		Preliminary Reconnaissance of Devils (Spirit) Lake Shore Stabilization Tract at Camp Grafton North, Ramsey Co., ND	7237
1998	Rothwell, S.		Report 1 for the 1998 Field Season: Cultural Resource Inventories for the Cass Rural Water System, Cass Co., ND	7223
1998	Scott, J.		Gratech Company's Three Gravel Pits in Benson Co.: A Level III Cultural Resource Inventory	7122
1998	Scott, J.		Harvey Sand & Gravel Benson Co., Gravel Pit: A Level III Cultural Resource Inventory	7123
1998	Stine, E.	D. Forsberg et al.	A Class III Cultural Resource Inventory of the ND Segment of the Alliance Pipeline (Milepost 0 to 323.87)	7227
1998	Travis, L.		Langley Borrow: A Class III Cultural Resource Inventory, Benson Co., ND	7198

Year	First Author	Second Author	Title	Ms #
1998	Travis, L.		Maple River Bridge: A Class III Cultural Resource Inventory for Proposed Bridge Replacement #101-02.1, Cass Co., ND	7176
1998	Wermers, G.		Minnkota Power Cooperative, Inc. Underground Cable Project Across Stump Lake, Nelson Co., ND	7222
1998	Wermers, G.		ND Department of Transportation Highway #1 Reroute Project in Nelson Co., ND	7265
1999	Banks, K.		Schwalbe Gravel Pit Project: A Cultural Resources Inventory in Oliver Co., ND	7490
1999	Borchert, J		The Dokken Pit Near Devils Lake, Benson Co., Class III Cultural Resource Inventory	7460
1999	Borchert, J.		Interstate 94 Improvements, East Oakes Interchange to East Valley City Interchange, East Bound & West Bound, Class III Cultural Resource Inventory	7492
1999	Clark, J.		A Class III Cultural Resources Investigation of the Fagerstrom Relocation Property, Barnes Co., ND	7369
1999	Flemmer, D.		A Class III NRCS Cultural Resource Survey Report of the Rasmussen Tree Planting Conservation Practice, Ramsey Co., ND	7374
1999	Flemmer, D.		Sheyenne River Debris Removal Class III Cultural Resource Survey Report, Griggs Co., ND	7506
1999	Good, K.		ND Army National Guard Borrow Area Class III Cultural Resource Inventory in Ramsey Co., ND	7395
1999	Good, K.		ND Army National Guard Facilities Construction Site Class III Cultural Resource Inventory Work Order # A385845 Ramsey Co., ND	7316
1999	Good, K.		ND Army National Guard Rip-Rap Project Class III Cultural Resource Inventory in Ramsey Co., ND	7396
1999	Good, K.		Pioneer Construction Borrow Area Section 4, T151N, R64W For BIA Road Grade Raise Projects Class III Cultural Resource Inventory, Benson Co., ND	7729
1999	Good, K.		Spirit Lake Tribe Borrow Area Section 13, T152N, R65W For BIA Road Grade Raise Projects Class III Cultural Resource Inventory, Benson Co., ND	7731
1999	Good, K.		Spirit Lake Tribe Borrow Area Section 19, T152N, R64W For BIA Road Grade Raise Projects Class III Cultural Resource Inventory, Benson Co., ND	7730
1999	Good, K.		Spirit Lake Tribe Borrow Area Section 4, T152N, R64W For BIA Road Grade Raise Projects Class III Cultural Resource Inventory in Benson Co., ND	7678
1999	Good, K.		Spirit Lake Tribe Rock Removal Area Section 11, T151N, R64W For BIA Road Grade Raise Projects Class III Cultural Resource Inventory in Benson Co., ND	7681
1999	Good, K.		Spirit Lake Tribe Rock Removal Area Section 4, T151N, R64W For BIA Road Grade Raise Projects Class III Cultural Resource Inventory in Benson Co., ND	7679
1999	Good, K.		Spirit Lake Tribe Rock Removal Area Section 7, T151N, R62W For BIA Road Grade Raise Projects Class III Cultural Resource Inventory in Benson Co., ND	7680
1999	Good, K.		Spirit Lake Tribe Rock Removal Area Section 8, T151N, R62W For BIA Road Grade Raise Projects Class III Cultural Resource Inventory, Benson Co., ND	7734
1999	Good, K.		Spirit Lake Tribe Rock Removal Areas For BIA Road Grade Raise Projects Class III Cultural Resource Inventory in Benson Co., ND	7682
1999	Isern, T.	K. Nesemeier	Wrought Iron Cross Cemeteries in ND-Continuing Survey, 1998-99	7725

Year	First Author	Second Author	Title	Ms #
1999	Kinney, W.		"Breaking New Ground" Class III Cultural Resource Inventory of a Proposed Housing Development in Lisbon, Ransom Co., ND	7331
1999	Kinney, W.		A Class III Cultural Resource Inventory of Both ROWs of Main Street in Valley City Between the Westbound Ramp and 4 <sup>th</sup> Street, Barnes Co., ND	7484
1999	Kinney, W.		A Class III Cultural Resource Inventory of Both ROWs of ND Highway 1 from the Oaks Interchange to its Intersection with ND Highway 46 in Barnes Co., ND	7485
1999	Kinney, W.		A Class III Cultural Resource Inventory of Both ROWs of ND Highway 32 From Lisbon to its Intersection with ND Highway 13 at Gwinner, ND Ransom & Sargent Counties, ND	7486
1999	Kinney, W.		Bridge Replacement Project DPI-0036(006)371 in Ransom Co., ND, A Class III Cultural Resource Project	7487
1999	Kinney, W.		Buffalo, Cass Co., ND/CDBG Project, Lagoon Repair/Expansion, A Class III Cultural Resource Inventory	7416
1999	Kinney, W.		Class III Cultural Resource Inventory on a Proposed Borrow Area-Ziebart WPA in Eddy Co., ND	7365
1999	Kinney, W.		Dusty Willow Dairy, a Class III Cultural Resource Inventory of a Proposed Building Site Near Stump Lake, Nelson Co., ND	7422
1999	Kinney, W.		Nelson Co., Drain No. 12, A Class III Cultural Resource Inventory in Nelson Co., ND	7453
1999	Kinney, W.		Proposed Forced Main Sewer Line Route at Woodland Resort on Devils Lake, Ramsey Co, ND US Army COE Project No. DACW37-97-D-0001	7367
1999	Kinney, W.		Ramsey Co., Borrow Area. A Class III Cultural Resource Inventory for NDDOT Project #CER-3633(55)	7333
1999	Klinner, D.	D. Porter et al.	Kindschi Lake Wildlife Development Area Survey Project in Sheridan Co., ND, 1998 Field Season	7552
1999	Klinner, D.		Lonetree Wildlife Management Area 1998 Survey of Selected Parcels in Sheridan and Wells Counties, ND	7353
1999	Klinner, D.		Twelve Borrow Areas in Towner Co., ND: Results of the Class III Inventory	7497
1999	Klinner, D.		Two Erosion Control Sites in Section 29, T140N, R58W & Section 27, T139N, R58W, Barnes Co., ND	7967
1999	Klinner, D.		Water Service Line Installations on the Spirit Lake Nation Reservation, Sections 22, 27, 28, & 34, T152N, R64W, Section 24, T151N, R64W & Sections 18 & 19, T151N, R63W, Benson Co., ND	7498
1999	Kordecki, C.		Crow Hill Community Water Service Line Installations 1998 Cultural Resources Inventory, Fort Totten Indian Reservation, Benson, Co., ND	7488
1999	Kulevsky, A.	M. Hannum	A Class III Cultural Resource Inventory of the ND Segment of the Alliance Pipeline Addendum: Extra Workspaces, Pipe Make-Up Areas, and Route Variations in Pierce, Wells, Barnes, Cass & Richland Counties, ND	7603
1999	Larson, T.		A Report on Cultural Resource Investigations for Dakota Water Users, Inc.: The Class II Sample Survey for the Sharon System Exchange	7415
1999	Latham, M.	T. Seacat et al.	Class III Cultural Resources Investigation of the US Army Corps of Engineers St. Paul District, Proposed Emergency Devils Lake Outlet in Benson Co., ND	7217
1999	Lewis, R.		Sullys Hill National Game Preserve Development Area 99SUL004 in Benson Co., ND	7401
1999	Lewis, R.		Sullys Hill National Game Preserve Lookout Stabilization 99SUL003 in Benson Co., ND	7400

Year	First Author	Second Author	Title	Ms #
1999	Lewis, R.		Sullys Hill National Game Preserve Nature Tail Modifications 99SUL001 in Benson Co., ND	7398
1999	Lewis, R.		Sullys Hill National Game Preserve Pond Expansions in 99SUL002 in Benson Co., ND	7399
1999	Michlovic, M.		Cultural Resources Survey of the Kindred-Davenport Regional Airport, Cass Co., ND	7410
1999	Michlovic, M.	D. Sather	Cultural Resources Survey of the Proposed Sewage Lagoon Upgrade, Tower City, Cass Co., ND	7528
1999	Morrison, J.		American's Gravel Pit: A Class III Cultural Resource Inventory, Ramsey Co., ND	7508
1999	Morrison, J.		Brown's Gravel Pit: A Class III Cultural Resource Inventory, Ramsey Co., ND	7511
1999	Morrison, J.		Egeland Road Expansion: A Class III Cultural Resource Inventory, Towner Co., ND	7491
1999	Morrison, J.		Knox Road Upgrade, Ten Borrow Pits: A Class III Cultural Resource Inventory, Benson Co, ND	7360
1999	Morrison, J.		Wisner's Riverview Add-on: A Class III Cultural Resource Inventory, Ransom Co., ND	7452
1999	Olson, B.		Otter Tail Company's 230 kV Harvey/Rolla Transmission Line: A Class III Cultural Resources Inventory of Selected Segments in Wells, Pierce, & Rolette Counties, ND	7503
1999	Picha, P.		Cultural Resource Investigations & Monitoring of Replacement Sewer and New Water Lines at Building Four, Fort Totten State Historic Site (32BE11), Benson Co., ND	8096
1999	Ross, R.		Swenson Borrow Area: A Class III Cultural Resource Inventory, Barnes Co., ND	7526
1999	Ross, R.		Van Hall Borrow Area: A Class III Cultural Resource Inventory, Barnes Co., ND	7527
1999	Rothwell, S.		Addendum: 1999 Cultural Resource Investigations for the Ransom-Sargent Water Project, ND	9079
1999	Rothwell, S.		Results of Class II & Class III Cultural Resources Inventories for Upgrades to Telecommunication Lines: The Courtenay-Jamestown-Wimbledon Exchanges	7446
1999	Snortland, J.		Spirit Lake Nation Water Service Line, Fort Totten Reservation, Benson Co., ND	7425
1999	Stine, E.		Farmers Home Administration Loren B. Alfson Farm: A Class III Cultural Inventory in Griggs Co., ND	7449
1999	Travis, L.		Highway 52 Survey: A Class III Cultural Resource Inventory, Wells Co., ND	7440
2000	Bluemle, W.		Considine Bridge: A Class III Cultural Resource Inventory, Towner Co., ND	7553
2000	Bluemle, W.		Kahler Road Survey: A Class III Cultural Resource Inventory, Sheridan Co., ND	7686
2000	Bluemle, W.		Monson Borrow Area: A Class III Cultural Resource Inventory, Barnes Co., ND	7638
2000	Bluemle, W.		Thorson Borrow Area: A Class III Cultural Resource Inventory, Nelson Co., ND	7749
2000	Bluemle, W.		Zweigle Borrow Area: A Class III Cultural Resource Inventory, Wells Co., ND	7609
2000	Borchert, J.		NDDOT Project #IM-2-094(055)305, Tower City to Buffalo, West Bound, PCC Pavement Reconstruction & Safety Improvements, Class II Cultural Resource Inventory	8627
2000	Christensen, B.		Albrecht Pit Class III Inventory Report in Benson Co., ND	7778

Year	First Author	Second Author	Title	Ms #
2000	Fassler, T.		Alliance Pipeline Project: A Cultural Resource Inventory of the ND Segment of the Alliance Pipeline Access Roads & Shooflies	7668
2000	Forsberg, D.	B. Mitchell et al.	Alliance Pipeline Project: A Class III Cultural Resource Inventory of the ND Segment of the Alliance Pipeline, Addendum: Access Roads & Shooflies	7563
2000	Godfrey, A.		Architectural Survey Report for the Proposed Maple River Dam Project, Cass Co., ND	7662
2000	Good, K.		ND Army National Guard House Relocation Project Class III Cultural Resource Inventory	7650
2000	Good, K.		Spirit Lake Tribe Four Winds School Expansion Class III Cultural Resource Inventory, Benson Co., ND	7732
2000	Good, K.		Spirit Lake Tribe Material Source Mission Hill Area Class III Cultural Resource Inventory, Benson Co., ND	7733
2000	Kinney, W.		A Class III Cultural Resource Inventory Report for the Proposed Culvert Relocation and Stream Realignment, Griggs Co., Lenora Township, ND FEMA/DR 1334 ND/PW475	7726
2000	Kinney, W.		A Proposed Water Treatment Plant Site in Harwood, Cass Co., ND; Water System Improvement District 98-1. A Class III Cultural Resource Inventory Report	7605
2000	Kinney, W.		A Wells Co., Proposed Borrow Area Near Harvey, ND for NDDOT Project Number NH-4-052(029)145	7757
2000	Kinney, W.		Class III Cultural Resource Inventory of Two Borrow Locations: SAP-3-200(012)318 in Foster Co., & NDF-2-020(005)027 in Stutsman Co., ND	7669
2000	Kinney, W.		Eight Borrow Areas for NDDOT Project Number SC-4819(056) in Towner Co., ND, A Class III Cultural Resource Inventory Report & Addendum	7694
2000	Kinney, W.		Gravel Pit Location for NDDOT Project # SS-2-032(017)055 in Ransom Co., ND, A Class III Cultural Resource Inventory Report	7639
2000	Kinney, W.		Little Hoop Community College Faculty Addition A Class III Cultural Resource Inventory of the Proposed Construction Site in Fort Totten, ND	7696
2000	Kinney, W.		Phase I Cultural Resource Investigation at Eggerts Landing, Lake Ashtabula, Barnes Co., ND, A Class III Cultural Resource Inventory	7698
2000	Kinney, W.		Proposed Grade Raise Project CDE-3201(51) in Nelson, Ramsey, and Benson Co., ND, A Class III Cultural Resource Inventory of the Road Right of Way	7701
2000	Kinney, W.		Towner Co., ND Borrow Area for NDDOT Project Number SER-3-066(015)037. A Class III Cultural Resource Inventory Report	7705
2000	Kinney, W.		Two Benson Co., ND Borrow Areas for NDDOT Project Number SS-3-20(055)088. A Class III Cultural Resource Inventory Report	7706
2000	Kordecki, C.	C. Jackson	Audubon Mitigation Tracts Cultural Resources Inventory in Cavalier, Grand Forks, McIntosh, McLean, & Sheridan Co., ND	9088
2000	Kordecki, C.	C. Jackson	Northern Plains Electric Cooperative Cultural Resources Inventory of Specific Projects Associated with 1999-2000 Construction Work Plan in Benson, Foster, Towner, Stutsman, & Wells Counties, ND	7773
2000	Kordecki, C.		Valley City Proposed Force Main Cultural Resources Inventory, 2000, Barnes Co., ND	7549
2000	Larson, T.		Results of a Class II/Class III Cultural Resource Inventory for the All Seasons Water Project: System IV, Phase II, Rolette and Towner Co., ND	7560
2000	Morrison, J.		Oppegard Borrow Area: A Class III Cultural Resource Inventory, Barnes Co., ND	7540



Year	First Author	Second Author	Title	Ms #
2000	Olson, B.		Addendum To: Ottertail Company's 230 kV Harvey/Rolla Transmission Line Cultural Resources Inventory, Wells, Pierce, and Rolette Counties, ND	7660
2000	Olson, B.		Farm Service Agency Class III Cultural Resource Inventory of the Neff Property, Sheridan Co., ND	7630
2000	Rom, L.		Cultural Resources Inventory of Sioux Falls Tower Specialists Inc's Communication Towers 304 & 334 in Billings and Cass Co., ND	7712
2000	Rom, L.		Cultural Resources Inventory of Sioux Falls Tower Specialists Inc's Communication Towers in BA, BI, BL, CS, GV, KD, SK, SN, & MO Counties, ND	7677
2000	Rothwell, S.		Cultural Resource Inventory for the Ransom-Sargent Water Project: Year 2000 Modifications & Additions	9084
2000	Wermers, G.		Thirteen NDDOT Living Snow Fence Planting Areas in Adams, Oliver, Burleigh, Barnes, & Cass Co., ND	7646
2001	Bluemle, W.		Four Towers Survey: A Class III Cultural Resource Inventory, Grand Forks, Ramsey & Stutsman Counties, ND	7961
2001	Bluemle, W.		Great River Energy: A Class III Cultural Resource Inventory, Benson & Ramsey Counties, ND	7899
2001	Bluemle, W.		Grotberg Borrow Area: A Class III Cultural Resource Inventory, Barnes Co., ND	8004
2001	Bluemle, W.		Hannaford Campsite Survey: A Class III Cultural Resource Inventory, Griggs Co., ND	7934
2001	Bluemle, W.		Ketterling Borrow Area: A Class III Cultural Resource Inventory, Ramsey Co., ND	7871
2001	Bluemle, W.		Linde Borrow Area: A Class III Cultural Resource Inventory, Ramsey Co., ND	7841
2001	Bluemle, W.		Living Snow Fence Survey: A Class III Cultural Resource Inventory, Benson, Cass, Kidder, Stutsman & Walsh Counties, ND	7842
2001	Bluemle, W.		NDDOT Scenic Routes: A Class III Cultural Resource Inventory, Barnes and Ransom Co., ND	7843
2001	Bluemle, W.		Otterness Borrow Areas: A Class III Cultural Resource Inventory, Barnes Co., ND	8008
2001	Bluemle, W.		Simonson Borrow Area: A Class III Cultural Resource Inventory, Benson Co., ND	8042
2001	Bluemle, W.		Tollefson Borrow Access Road: A Class III Cultural Resource Inventory, Ramsey Co., ND	7950
2001	Bluemle, W.		Tollefson Borrow Area: A Class III Cultural Resource Inventory, Ramsey Co., ND	7874
2001	Christensen, B.		A&V Halvorson Borrow-ROW-014 Class III Inventory Report, Ramsey Co., ND	7972
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2001	Christensen, B.		G&B Anderson Class III Inventory Report Benson Co., ND	7917
2001	Christensen, B.		Hobart Lake Borrow Pit Class III Inventory Report, Barnes Co., ND	7799
2001	Christensen, B.		Hoffman Borrow Source Class III Inventory Report, Benson Co., ND	7800
2001	Christensen, B.		J&M Tollefson Borrow (KLJ-018) Class III Inventory Report, Ramsey Co., ND	7974
2001	Christensen, B.		KLJ-017 Class III Inventory Report, Ramsey Co., ND	7975
2001	Christensen, B.		ROW-003/004 Class III Inventory Report, Benson Co., ND	7997
2001	Christensen, B.		ROW-005 Class III Inventory Report, Ramsey Co., ND	8024
2001	Christensen, B.		ROW-006 Class III Inventory Report, Benson Co., ND	7978
2001	Christensen, B.		ROW-009 Class III Inventory Report, Benson Co., ND	7979

Year	First Author	Second Author	Title	Ms #
2001	Christensen, B.		Schneider North Borrow Source Class III Inventory Report, Benson Co., ND	7802
2001	Christensen, B.		Schneider South Borrow Source Class III Inventory Report, Benson Co., ND	7803
2001	Christensen, B.		STATEOP-369 Gravel Pit Class III Inventory Report, Towner Co., ND	7824
2001	Christensen, B.		Tommy Peterson Borrow Source Class III Inventory Report, Ramsey Co., ND	7807
2001	Ekstrom, R.		FEMA Survey Report Survey of Seventeen Historic Properties in the Devils Lake Basin of ND, Ramsey & Towner Counties	8107
2001	Flemmer, D.		Cultural Resource Inventory of the Harwood Water Control Structure Cass Co., ND	7968
2001	Floodman, M.		Fiscal Year 2001 Abandoned Well Plugging and Berg Corral, Sheyenne Ranger District, Ransom & Richland Counties, ND	7909
2001	Floodman, M.		North Country Scenic Trail Reroute Ransom Co., ND	7912
2001	Good, K.		Bureau of Reclamation Spirit Lake Tribal Water Lines Fort Totten Indian Reservation Class III Cultural Resource Inventory, Benson Co., ND	9090
2001	Good, K.		Indian Health Service Spirit Lake Clear Earth Project Inert and Transfer Site Class III Cultural Resource Inventory in Benson Co., ND	7903
2001	Good, K.		ND Army National Guard Fuel Containment Project Class III Cultural Resource Inventory	7969
2001	Good, K.		Spirit Lake Tribe Crow Hill Area Water Lines Class III Cultural Resource Inventory, Benson Co., ND	8297
2001	Hall, D.		Cultural Resource Survey Western Area Power Administration Fiber Optic Cable Installation Cass Co., Fargo, ND	8028
2001	Kinney, W.		A Nelson County ND Borrow Pit Location NDDOT Project Numbers NH-3-002(061)282 and SS-3-001(009)161. A Class III Cultural Resource Inventory Report	7791
2001	Kinney, W.		Class III Cultural Resource Inventory Results From Six Proposed Borrow Area Locations (CDE-3201(051) In Ramsey and Nelson Counties, ND	8167
2001	Kinney, W.		Proposed Add-on Ransom-Sargent Water Users, Lisbon, ND, A Class III Cultural Resource Inventory, Ransom Co., ND	8063
2001	Kinney, W.		Proposed Griggs County Borrow Area For NDDOT Proj. #CER-2003(57). A Class III Cultural Resource Inventory Report	8015
2001	Kinney, W.		Ramsey County ND Bridge Replacement Project Number BRO-36(16). A Class III Cultural Resource Inventory Report	7792
2001	Kinney, W.		Three Proposed Borrow Areas in Benson Co., ND, A Class III Cultural Resource Inventory for NDDOT Project Number SER-3-019(029)66	8016
2001	Kinney, W.		Two Cass County ND Borrow Area Locations for NDDOT Project IM-2-094(055)305. A Class III Cultural Resource Inventory Report.	7884
2001	Kinney, W.		Two Proposed Ramsey Co., Borrow Areas For NDDOT Project Number NH-3-002(066)272. A Class III Cultural Resource Inventory Report	7793
2001	Kordecki, C.		Lake Alice National Wildlife Refuge, Hansen Marsh Borrow Area, Ramsey Co., ND, 2001 Cultural Resources Inventory	8054
2001	Kordecki, C.		Spirit Lake Tribal MR&I Cultural Resources Inventory Benson Co., ND	9087
2001	Lehman Turck, D.		Cultural Resources Survey of Proposed Borrow for Road in New Germantown Township, Sheridan Co., ND	7867
2001	Morrison, J.		Cass County Highway 26: A Class III Cultural Resource Inventory of Nine Miles in Cass Co., ND	8086

Year	First Author	Second Author	Title	Ms #
2001	Morrison, J.		Korkum Borrow Area: A Class III Cultural Resource Inventory, Ramsey Co., ND	7955
2001	Morrison, J.		Rush River Bridge Replacement: A Class III Cultural Resource Inventory, Cass Co., ND	8048
2001	Morrison, J.		Seven Cellular Sites: A Class III Cultural Resource Inventory, Stutsman, LaMoure, Barnes, Cass & Kidder Counties, ND	7963
2001	Morrison, J.		Wolf Borrow Area: A Class III Cultural Resource Inventory, Pierce Co., ND	8003
2001	Murdy, C.		A Reconnaissance Cultural Resource Survey of the Proposed Greene Septic System Project, Spirit Lake Reservation, Benson Co., ND	8029
2001	Olson, B.		Indian Health Service Water Main Extension Project AB-99-B21 Fort Totten Indian Reservation, Benson Co., ND: Class III Cultural Resource Inventory	7890
2001	Olson, B.		NDDOT I-94 Highway Improvement Projects SIM-8-094(037)323 and IM-8-094(035)323 Along I-94 From Near Wheatland to Casselton, Cass Co., ND: A Class III Cultural Resources Inventory	8072
2001	Olson, B.		Site Acquisition Consultants: Class III Cultural Resources Inventories of Eleven Tower Locations Along ND Highways 2 & 83	7998
2001	Scott, J.		Bryn Borrow Two: A Class III Cultural Resource Inventory, Ramsey Co., ND	7951
2001	Springer, K.		A Cultural Resources Inventory of the Sheyenne River Emergency Watershed Protection Project, Griggs Co., ND	8099
2001	Springer, K.		A Cultural Resources Inventory of the Thompson Property Stream Bank Stabilization Project, Barnes Co., ND	8098
2002	Bluemle, W.		Bryn Borrow Area: A Class III Cultural Resource Inventory, Ramsey Co., ND	8135
2002	Bluemle, W.		Highway 281 Reroute A Class II & III Cultural Resources Inventory, Benson, Ramsey and Towner Counties, ND Addendum 1 for Option 3	8356
2002	Bluemle, W.		Highway 281 Reroute: A Class II & III Cultural Resources Inventory, Benson, Ramsey & Towner Counties, ND	8291
2002	Bluemle, W.		McLain Borrow Area: A Class III Cultural Resource Inventory, Barnes Co., ND	8277
2002	Bluemle, W.		Rott Borrow Area: A Class III Cultural Resource Inventory, Pierce Co., ND	8358
2002	Bluemle, W.		Tebelius Borrow Area: A Class III Cultural Resource Inventory, Pierce Co., ND	8360
2002	Bluemle, W.		Technology Park Survey: A Class III Cultural Resource Inventory, Barnes Co., ND	8159
2002	Bluemle, W.		Tract 1 Resource Area: A Class III Cultural Resource Inventory, Barnes Co., ND	8310
2002	Bluemle, W.		Valley City Technology Park: A Class III Cultural Resource Inventory, Barnes Co., ND	8280
2002	Bluemle, W.		Valley City Tower: A Class III Cultural Resource Inventory, Barnes Co., ND	8190
2002	Borchert, J.		Addendum to NDDOT Scenic Routes (MS 7843): A Class III Cultural Resource Inventory, Barnes & Ransom Counties, ND, Written by William J. Bluemle, Metcalf Archaeological Consultants, Inc. for the NDDOT, April 2001	8121
2002	Borchert, J.		I-94 Fargo, Class II Cultural Resource Inventory, Cass Co., ND	8258
2002	Christensen, B.		SAP-4-019(001)094 Class III Inventory Report, Pierce Co., ND	8123

Year	First Author	Second Author	Title	Ms #
2002	Floodman, M.		Dakota Prairie Grasslands FY 02 Well Plugging Projects McKenzie, Billings, Ransom & Richland Counties, ND	8210
2002	Floodman, M.		Fence Construction Sections 4 & 9, T135N R52W Richland Co., ND	8211
2002	Floodman, M.		FSR 240 Road Reconstruction Ransom Co., ND	8212
2002	Floodman, M.		North Country Trail Relocation II Ransom and Richland Co., ND	8396
2002	Florin, F.		Phase I Cultural Resources Survey of a 300-Acre Environmental Mitigation Area, Lake Ashtabula, Griggs Co., ND	8207
2002	Giliberti, J.		A Cultural Resources Inventory of a Proposed Transmission Line Reroute Spirit Lake Nation, Benson Co., ND	8249
2002	Good, K.		Spirit Lake Tribe Abused Women's Shelter Class III Cultural Resource Inventory, Benson Co., ND	8259
2002	Jackson, M.		Phase A of the Eastbay Campground Archeological Survey, Spirit Lake Indian Reservation, Benson Co., ND: BIA Case No. AA0-965/FT/02	8226
2002	Jackson, M.		Phase B of the Eastbay Campground Archeological Survey, Spirit Lake Indian Reservation, Benson Co., ND: BIA Case No. AA0-965/FT/02	8227
2002	Jackson, M.		Ramsey Co., Bridge Replacement Project BRO 36(017) Cultural Resources Survey, Ramsey Co., ND: Bridge Number 36-140-02.0	8124
2002	Kinney, W.		Class III Cultural Resource Inventory of the Maple River Road Realignment Project, Site #22, Cass Co., ND	8229
2002	Kinney, W.		Fort Ransom, ND Playground Location, A Class III Cultural Resource Inventory Report, Ransom Co., ND	8352
2002	Kordecki, C.		Devils Lake Cultural Resources Inventory of a Segment of 8th Avenue South, Project SU-3-982(010)012, Devils Lake, Ramsey Co., ND	8331
2002	Lewis, R.		A Cultural Resource Inventory of Four Proposed Projects on Sully's Hill National Game Preserve Benson Co., ND 02SUL001	8228
2002	Lewis, R.		Lostwood National Wildlife Refuge House Location 02LST001, Burke Co., ND	8209
2002	Morrison, J.		Cook Borrow Area: A Class III Cultural Resource Inventory, Barnes Co., ND	8340
2002	Morrison, J.		Etzel Borrow Area: A Class III Cultural Resource Inventory, Barnes Co., ND	8341
2002	Morrison, J.		Living Snow Fence Survey of 28 Sites in Adams, Barnes, Bowman, Emmons, Golden Valley, Hettinger, Kidder, McIntosh, Mountrail, Oliver & Walsh Co., ND: A Class III Cultural Resource Inventory	8187
2002	Morrison, J.		Mauvais Coulee Bridge Replacement: A Class III Cultural Resource Inventory, Towner Co., ND	8389
2002	Morrison, J.		Rainbow Arch Bridge: A Class III Cultural Resource Inventory, Barnes Co., ND	8347
2002	Morrison, J.		Rolla Lagoon: A Class III Cultural Resource Inventory, Rolette Co., ND	8283
2002	Murdy, C.		A Reconnaissance Cultural Resource Survey of the Proposed Indian Health Service Solid Waste Transfer Station Project, Spirit Lake Reservation, Benson Co., ND	8323
2002	Nienow, J.		Class III Cultural Resource Inventory between Lakota & Mapes (SNH-6-002(061)295) on Both Sides of US Highway 2, Nelson Co., ND	8450
2002	Nienow, J.	K. Breakey	Class III Cultural Resource Inventory between Valley City & Hill (SIM-2-094(065)295) on Both Sides of Interstate 94, Barnes and Cass Co., ND	8451
2002	Nienow, J.	K. Breakey	Class III Cultural Resource Inventory IM-6-029(050)183 and IM-6-029(051)184 South Herrick to North Jct 66 & North Herrick to North Bowsmont on Interstate 29,	8452

Year	First Author	Second Author	Title	Ms #
			Pembina & Walsh Counties, ND	
2002	Nienow, J.	K. Breakey	Class III Cultural Resources Inventory Between Highway 1 & Milton (SS-3-066(016)078) on Both Sides of Highway 66, Cavalier Co., ND	8428
2002	Nienow, J.	K. Breakey	Class III Investigations IM-2-094(064)275 Eckelson to Oakes, Barnes Co., ND	8369
2002	Olson, B.		Otter Tail Company's 230 kV Harvey/Rolla Transmission Line: Class III Cultural Resource Inventory of Reroute in Section 22, T152N, R73W, Pierce Co., ND	8104
2002	Picha, P.		Archeological Monitoring of an Access Road and Parking Lot West of Building 4 (Fort Totten Inn), Fort Totten State Historic Site (32BE11), Benson Co., ND	8251
2002	Picha, P.		Cultural Resource Investigations & Monitoring of Proposed Access Road & Parking Lot Near Building 4, Fort Totten State Historic Site (32BE11), Benson Co., ND	8095
2002	Stine, E.		Eight Tree Planting Sites: A Class III Cultural Resource Inventory in Bottineau, Burke, Burleigh, Cass, Grand Forks, Ransom, & Pembina Counties, ND	8391
2002	Wermers, G.		Tri-Co., Water District Phase II Expansion Project, Walsh, Grand Forks, Nelson, Ramsey & Steele Counties, ND: Class II and III Inventory Results	8419
2003	Bluemle, W.		2003 Living Snow Fence Survey (A) of Five Tree Sites in Emmons & Stutsman Counties, ND: A Class III Cultural Resource Inventory	8711
2003	Bluemle, W.		America The Beautiful Development Program: A Class III Cultural Resource Inventory for Harvey in Wells Co., ND	8713
2003	Bluemle, W.		BRWD Watermain at Lake Ashtabula: A Class III Cultural Resource Inventory, Barnes Co., ND	8617
2003	Bluemle, W.		Guscett Borrow Area and Access Road: A Class III Cultural Resource Inventory, Barnes Co., ND	8643
2003	Bluemle, W.		Heglund Gravel Pit: A Class III Cultural Resource Inventory, Benson Co., ND	8512
2003	Bluemle, W.		Highway 46: A Class III Cultural Resource Inventory, Cass, Ransom & Richland Counties, ND	8751
2003	Bluemle, W.		Highways 27 & 32: A Class III Cultural Resource Inventory, Ransom Co., ND	8644
2003	Bluemle, W.		Polar Communications Mutual Aid Corporation & Polar Telecommunications, Inc., Fiber Optic Cable Survey: A Class I Literature Search & Class III Cultural Resources Inventory of CS, CV, GF, GG, NE, PB, RY, ST, TR & WA Counties, ND	8427
2003	Bluemle, W.		Towner Co., Road Survey: A Class III Cultural Resource Inventory, Towner Co., ND	8517
2003	Burns, C.	J. Clark	Class III Cultural Resource Investigation for the Stevens Ag-Waste System, Barnes Co., ND	8533
2003	Christensen, B.		Fort Ransom T J Walker Pioneer Dam Park Class III Inventory Report Ransom Co., ND	8537
2003	Christensen, B.		STATEOP-425 Class III Inventory Report Benson Co., ND	8649
2003	Hafermehl, L.		Sandager Park Lisbon, Ransom Co., ND Survey and Evaluation of Park Eligibility for Listing in the National Register of Historic Places	8661
2003	Hafermehl, L.		Addendum to Highway 281 Reroute: A Class II & III Cultural Resource Inventory of Benson, Ramsey & Towner Counties, ND	8479

Year	First Author	Second Author	Title	Ms #
2003	Isern, T.		Strategic Survey of Historic Properties, Buffalo, ND 2001-2002 Cass Co., ND	9674
2003	Jackson, M.	C. Kordecki	Camp Grafton North 2001 Archeological Survey, Ramsey Co., ND	8498
2003	Kinney, W.		2002 Phase I Cultural Resource Inventory at Fifteen Proposed Devils Lake Levee Alignments and Tiebacks in Ramsey Co., ND	8438
2003	Kinney, W.		Proposed Site of the ND3 Barrie Alt 1 Tower Site. A Class III Cultural Resource Inventory in Richland Co., ND	8496
2003	Kordecki, C.	C. Jackson	Audubon Mitigation Tracts Cultural Resources Inventory in Cavalier, Sheridan & Pembina Counties, ND, 2001	9082
2003	Kordecki, C.	C. Jackson et al.	Camp Grafton South 2001 Reconnaissance-Level Cultural Resources Survey of Previously Recorded Sites, Eddy Co., ND	8481
2003	Kordecki, C.		Devils Lake State Temporary Emergency Outlet 2002 Cultural Resources Survey Benson Co., ND	8437
2003	Kulevsky, A.		Enderlin Turn Lane: A Class II Cultural Resources Inventory in Cass and Ransom Counties, ND, NDDOT Project #HSP-8-046(017)083	8666
2003	Kulevsky, A.		Fort Totten Multi-Use Path Cultural Resources Inventory in Benson Co., ND, NDDOT Project No. PLH-0003(013), BLM Permit No. AAO-1093/FT/03	8715
2003	Kulevsky, A.		Highway 2 Knox to Leeds Resurfacing Class II Cultural Resources Inventory in Benson Co., ND	8459
2003	Kulevsky, A.		Highway 46 Slide Repair Area Class III Cultural Resources Inventory in Barnes Co., NDDOT Project Number HSP-2-999(010)	8557
2003	Kulevsky, A.		HSP-8-999(011) Class III Cultural Resources Inventory of T-Intersection Improvements at Three Locations in Eastern North Dakota, Cass, & Traill Counties	8495
2003	Kulevsky, A.		Robinette Borrow Pit (ROW-74) Class III Cultural Resource Inventory in Benson Co., ND, NDDOT Project # NH-3-057(005)000, BIA Permit No. AAO-1100/FT/03	8716
2003	Kulevsky, A.		T-Intersections on Highway 46: A Cultural Resources Inventory in Barnes, LaMoure, Ransom & Stutsman Counties, ND	8473
2003	Michlovic, M		Cultural Resources Survey of the Proposed Casselton Elevator Road, Cass Co., ND	8718
2003	Morrison, J.		Holen Gravel Pit: A Class III Cultural Resource Inventory, Sheridan Co., ND	8553
2003	Morrison, J.		Olson Gravel Pit: A Class III Cultural Resource Inventory, Cass Co., ND	8521
2003	Morrison, J.		St Michael's Water Tower Site: A Class III Cultural Resource Inventory, Benson Co., ND	8556
2003	Stine, E.		Barnes Rural Water District 2003 System Improvements: A Class III Cultural Resource Inventory in Barnes Co., ND	8692
2003	Stine, E.		Jorgenson Pit: A Class III Cultural Resource Inventory in Ransom Co., ND	8501
2003	Stine, E.		Railroad Approach Grade Raise: A Cultural Resource Inventory in Cass Co., ND	8474
2003	Stine, E.		Sand Property: A Cultural Resource Inventory in Eddy Co., ND	8507
2003	Stine, E.		WAPA's Trench Location: A Cultural Resource Inventory in Barnes Co., ND	8491
2004	Bleier, A.	L. Hafermehl	Buffalo Creek Bridge: A Class III Cultural Resource Inventory in Cass Co., ND	9035
2004	Bleier, A.		Cass Co., Highway 14: A Cultural Resource Inventory, Cass Co., ND	8935

Year	First Author	Second Author	Title	Ms #
2004	Bleier, A.		Highway 12 Bridge: A Class III Cultural Resource Inventory in Cass Co., ND	8998
2004	Bleier, A.		Highway 7 Bridge: A Class III Cultural Resource Inventory in Cass Co., ND	8997
2004	Bluemle, W.		Barnes Rural Water District Phase III System Improvements Report: A Class III Cultural Resource Inventory, Barnes Co., ND	8958
2004	Bluemle, W.		Brown Borrow Area: A Class III Cultural Resource Inventory, Ramsey Co., ND	8902
2004	Bluemle, W.		CCEC 2004: A Class III Cultural Resource Inventory, Barnes, Cass & Richland Counties, ND	8848
2004	Bluemle, W.		Highway 10 Survey: A Class III Cultural Resources Inventory in Cass Co., ND	8975
2004	Bluemle, W.		Highway 3: A Class III Cultural Resource Inventory, Wells Co., ND	8846
2004	Burns, W.		Class III Cultural Resource Investigation for the Prichard Ag-Waste System, Barnes Co., ND	8849
2004	Christensen, B.		ROW-081/082 Class III Inventory Report, Ransom Co., ND	8786
2004	Giliberti, J.		A Cultural Resource Inventory of Structure Replacement Rugby-Devil's Lake 115-kV Transmission Line Benson, Ramsey and Pierce Counties, ND	9005
2004	Good, K.		Spirit Lake Tribe BIA #17 Right-Of-Way Class III Cultural Resource Inventory, Benson Co., ND	8961
2004	Good, K.		Spirit Lake Tribe BIA #20 & #21 Right-Of-Way Class III Cultural Resource Inventory Benson Co., ND	8976
2004	Good, K.		Spirit Lake Tribe Casino Landscaping at Access to the Spirit Lake Casino Class III Cultural Resource Inventory, Benson Co., ND	8906
2004	Good, K.		Spirit Lake Tribe Housing Waterline Class III Cultural Resource Inventory, Benson Co., ND	8962
2004	Good, K.		Spirit Lake Tribe Lufkin Waterline Class III Cultural Resource Inventory, Benson Co., ND	9182
2004	Good, K.		Spirit Lake Tribe Pow Wow Grounds Improvements Waterline Class III Cultural Resource Inventory, Benson Co., ND	8907
2004	Good, K.		Spirit Lake Tribe Ronald Lohnes Housing Waterline Class III Cultural Resource Inventory, Benson Co., ND	8918
2004	Hiemstra, D.		Erickson Gravel Pit: A Class III Cultural Resource Inventory in Benson Co., ND	9034
2004	Hiemstra, D.		Expansion of the Brown Borrow Area: A Class III Cultural Resource Inventory, Ramsey Co., ND	8959
2004	Hiemstra, D.		Gjestvang Borrow Area: A Class III Cultural Resource Inventory in Benson Co., ND	8974
2004	Hiemstra, D.		Highway 2 West, Michigan to Mapes: A Class III Cultural Resource Inventory, Nelson Co., ND	8911
2004	Hiemstra, D.		Robineau Stockpile Site: A Class III Cultural Resource Inventory, Benson Co., ND	9131
2004	Jackson, M.		Cass Rural Water Users 2004 Class III Cultural Resources Survey, Cass Co., ND	8851
2004	Jackson, M.		Sibley Water Supply Project Class III Cultural Resources Inventory, Barnes Co., ND	8852
2004	Jackson, M.	C. Kordecki et al.	Sullys Hill National Game Preserve 2003 Archeological Survey & Test Excavations, Benson Co., ND	8737
2004	Kinney, W.		Barnes Co., Borrow Area for Project SAP-2-094(022)294, A Class III Cultural Resource Inventory Report	8908

Year	First Author	Second Author	Title	Ms #
2004	Kordecki, C.	M. Hufstetler	Burlington Northern Santa Fe Railway Company Abandonment at Four Locations in ND, Class I & Class II Cultural Resources Inventories, Grand Forks, Barnes, Griggs, Bottineau & Mercer Co., ND	8919
2004	Kulevsky, A.		Highway 57 Waterline Relocation Class III Cultural Resources Inventory in Benson Co., ND NDDOT Project No. NH-3-057(005)000	8875
2004	Kulevsky, A.		I-94 Buffalo to Wheatland Interchanges Class II Cultural Resources Inventory in Cass Co., ND, NDDOT Proj. Nos. IM-8-094(039)315 & IM-8-094(033)315	8843
2004	Michlovic, M.		Cultural Resources Survey at the Lisbon Municipal Airport (NDSHPO #04-1261), Ransom Co., ND	8977
2004	Morrison, J.		Nine Material Source Locations: A Class III Cultural Resource Inventory, Benson Co., ND	9011
2004	Ollendorf, A.		Class III Archaeological Survey for a Proposed Riprap Borrow Area for the Maple River Dam Project, Near Lisbon, Ransom Co., ND	9037
2004	Ollendorf, A.		Field Work (Oct. 18-19, 2004)-Construction Monitoring - Emergency Spillway Maple River Dam, Cass Co., ND	9020
2004	Springer, K.		The 03-017-059 Floodwater Dam Project Cultural Resources Inventory Cass Co., ND	8877
2004	Stine, E.		Bridge 114-38.0: A Class III Cultural Resource Inventory in Towner Co., ND	9003
2004	Stine, E.		Dead Colt Creek Reservoir Upper Watershed Improvements: A Class III Cultural Resource Investigation in Ransom Co., ND	8800
2004	Stine, E.		Jacobsen Pit: A Cultural Resource Inventory in Griggs Co., ND	9057
2005	Barger, M	J. Giliberti	A Cultural Resource Inventory of Structure Replacement, Leeds-Rolla 115-kV Transmission Line, Benson & Towner Co., ND	9056
2005	Bleier, A.		2005 State Wide Tree Mitigation Sites in Burleigh, McLean, Pembina, Ransom, Stark, & Stutsman Counties, ND: A Class III Cultural Resource Inventory	9197
2005	Bleier, A.		Berger Gravel Pit Expansion: An Intensive Class III Cultural Resource Inventory, Barnes Co., ND	9217
2005	Bleier, A.		Hill Borrow: A Class III Cultural Resource Inventory in Benson Co., ND	9352
2005	Bleier, A.		Shale Borrow Area: A Class III Cultural Resource Inventory in Wells Co., ND	9392
2005	Bleier, A.		State Highway 38 from Buffalo to Page: A Class III Cultural Resource Inventory in Cass Co., ND	9393
2005	Bluemle, W.		Hammer Borrow: A Class III Cultural Resources Inventory in Ransom Co., ND	9096
2005	Boughton, J.	S. Wagers	A Class III Inventory of a 2.94-Mile Segment of US Highway 281 in Eddy Co., ND	9581
2005	Burns, W.		Class III Cultural Resource Investigation of a Borrow Area, West of Warwick, Eddy Co., ND T150N R63W, in the NE¼ of Section 9 Eddy Co., ND DOT Pjct Number: SER-3-020(068)094 & SAP-3-020(068)094	9443
2005	Burns, W.		Class III Cultural Resource Investigation of Gravel Pit, East of Sheyenne, Eddy Co., ND NE¼, NE¼, NW¼ T150N R64W Sec 12 Eddy Co., ND DOT Pjct Number: SC-1404(053)	9442
2005	Burns, W.		Jacobsen Gravel Pit, Class III Cultural Resource Inventory, Griggs Co., ND DOT Project Number: AC-NH-8-018(040)124	9532
2005	Christensen, B.		Conner Wetland: WET-009 Class III Inventory Report, Ramsey Co., ND	9434
2005	Christensen, B.		Lake Sibley Drain Class III Inventory Report, Griggs Co., ND	9486



Year	First Author	Second Author	Title	Ms #
2005	Christensen, B.		Mosbaek Wetland-WET-010 Class III Inventory Report, Ramsey Co., ND	9473
2005	Christensen, B.		WET-010: Wakefield Wetland Class III Inventory Report, Ramsey Co., ND	9435
2005	Christensen, B.		WET-011: Charon Johnson Wetland Class III Inventory Report, Ramsey Co., ND	9487
2005	Floodman, M.		Cell Tower Construction Project, Ransom Co., ND	9232
2005	Floodman, M.		The North Country Trail III, Richland Co., ND	9233
2005	Good, K.		Spirit Lake Tribe Mathney Waterline Class III Cultural Resource Inventory, Benson Co., ND	9179
2005	Good, K.		Spirit Lake Tribe Mudgett Waterline Class III Cultural Resource Inventory, Benson Co., ND	9181
2005	Good, K.		Spirit Lake Tribe R5E Tank Class III Cultural Resource Inventory, Benson Co., ND	9180
2005	Hafermehl, L.		Pump House: ND Highway Bridge Number 10-002.021, Cass Co., ND	9364
2005	Hafermehl, L.	E. Stine	West Fargo Highway 10: A Class III Cultural Resource Inventory in Cass Co., ND	9488
2005	Hiemstra, D.		G. Tofsrud Borrow: A Class III Cultural Resource Inventory in Benson Co, ND	9219
2005	Hiemstra, D.		Round Lake and Josephine Substations and Pipelines: A Class III Cultural Resource Inventory in Benson Co., ND	9169
2005	Hiemstra, D.		Sibley Materials Pit: A Class III Cultural Resource Inventory in Barnes Co., ND	9389
2005	Hiemstra, D.		Wentz Materials Pit: A Class III Cultural Resource Inventory in Benson Co., ND	9388
2005	Hiemstra, D.		Westlind Borrow Areas: A Class III Pedestrian Cultural Resources Survey in Towner Co., ND	9460
2005	Jackson, M.		Northern Plains Electric Cooperative 2005 Add-On Cultural Resources Inventory, Towner Co., ND	9199
2005	Klinner, D.		Devils Lake Municipal Airport Crosswind Runway 3-21: A Class III Cultural Resource Inventory, Ramsey Co., ND	9513
2005	Klinner, D.		Devils Lake Municipal Airport: A Class III Cultural Resource Inventory, Ramsey Co., ND	9529
2005	Kordecki, C.		All Seasons Water Users District System V, Brinsmade Area Expansion Class II & Class III Cultural Resources Inventories, Benson Co., ND 2005	9554
2005	Kordecki, C.		Northern Plains Electric Cooperative 2004 Cultural Resources Inventory of Specific Projects in Benson, Foster, Kidder, Pierce, Rolette, Stutsman, Towner, & Wells Counties, ND	9198
2005	Morrison, J.		Nine Power Structures For Minnkota Power: A Class III Cultural Resource Inventory, A Class III Cultural Resource Inventory, Burleigh, Cass, & Stutsman Counties, ND	9333
2005	Morrison, J.		Valley City's West City Park Bridge: A Class III Cultural Resource Inventory, Barnes Co., ND	9122
2005	Ollendorf, A.		Class III Archaeological Survey for Another Proposed Gravel Borrow Area for the Maple River Dam Project, Near Lisbon, Ransom Co., ND	9304
2005	Stine, E.		Alberg Borrow: A Class III Cultural Resource Inventory in Towner Co., ND	9457
2005	Stine, E.		Benson Borrow Pit: A Class III Cultural Resource Inventory in Towner Co., ND	9455
2005	Stine, E.		Benson Channel Borrow Area: A Class III Cultural Resource Inventory in Towner Co., ND	9456
2005	Stine, E.		Bridge 110-4, A Class III Cultural Resource Inventory in Richland Co., ND	9355

Year	First Author	Second Author	Title	Ms #
2005	Stine, E.		Community Transportation Enhancement Grant Program: A Class III Cultural Resource Inventory in Dunn, Pierce, Steele & Williams Co., ND	9320
2005	Stine, E.		Gransberg Borrow Area: A Class III Cultural Resource Inventory in Towner Co., ND	9458
2005	Stine, E.		Ransom Co., Lower Sheyenne 319 Watershed Project: A Class III Cultural Resource Inventory	9356
2005	Stine, E.		Sexhus Borrow Location: A Class III Cultural Resource Inventory in Towner Co., ND	9459
2005	Wermers, G.		ROW-120 Class III Inventory Report, Ramsey Co., ND	9195
2005	Wermers, G.		ROW-124 Class III Inventory Report, Benson Co., ND	9193
2005	Wermers, G.		ROW-125 Class III Inventory Report, Benson Co., ND	9192
2005	Wermers, G.		ROW-134 Class III Inventory Report, Benson Co., ND	9188
2005	Wermers, G.		ROW-135 Class III Inventory Report, Ramsey Co., ND	9194
2005	Wermers, G.		ROW-140 Class III Inventory Report, Benson Co., ND	9263
2005	Wermers, G.		ROW-143 Class III Inventory Report, Benson Co., ND	9264
2005	Wermers, G.		ROW-144.a & 144.b Class III Inventory Report, Benson Co., ND	9265
2005	Wermers, G.		ROW-147 Class III Inventory Report, Benson Co., ND	9358
2006	Barr, V.	C. Murdy	Reconnaissance Cultural Resource Surveys of Eighteen Homesites, Spirit Lake Reservation, Benson Co., ND	9899
2006	Bleier, A.	L. Hafermehl	Highway 1 from Nekoma to Langdon: A Class III Cultural Resource Inventory in Cavalier Co., ND	9597
2006	Bleier, A.	E. Stine et al.	Keystone Pipeline Project: Class I, II, & III Cultural Resource Investigations in Eastern ND, Vols. 1 & 2	9969
2006	Burns, C.		The Olson Borrow Area: A Class III Cultural Resource Inventory, Ransom Co., ND	9830
2006	Burns, C.		The Tranby Survey, Griggs Co., ND: A Class III Cultural Resource Inventory	9734
2006	Burns, W.		The Eberle Pit Survey, Barnes Co.: A Class III Cultural Resource Inventory, ND	9680
2006	Burns, W.		The Hoffman Survey, Cass Co., ND: A Class III Cultural Resource Inventory	9719
2006	Burns, W.		The Larson Survey, Eddy Co.: A Class III Cultural Resource Inventory	9750
2006	Burns, W.		The Morehouse Borrow Site, Cass Co.: A Class III Cultural Resource Inventory	9705
2006	Burns, W.		The Sibley Pit Survey, Barnes Co.: A Class III Cultural Resource Inventory	9636
2006	Burr, J.		Stave #1 Borrow Area: A Class III Cultural Resource Inventory in Towner Co., ND	9823
2006	Burr, J.		Stave #2 Borrow Area: A Class III Cultural Resource Inventory in Towner Co., ND	9772
2006	Flemmer, D.		Ingstad Dam Cultural Resources Survey, Barnes, Co., ND	9910
2006	Floodman, M.		Iron Springs Project, Richland Co., ND	9732
2006	Good, K.		Spirit Lake Tribe-Brian Kraft Borrow Pit Project-Class III Cultural Resource Inventory, Benson Co., ND	9921
2006	Good, K.		Spirit Lake Tribe-Bugs Thompson Borrow Pit Project - Class III Cultural Resource Inventory, Benson Co., ND	9920
2006	Good, K.		Spirit Lake Tribe-Cathy Longie Borrow Pit Project, a Class III Cultural Resource Inventory, Benson Co., ND	9865
2006	Good, K.		Spirit Lake Tribe-Indian Health Service-Dusty Dauphinais Sewer Project-A Class III Cultural Resource Inventory - AA0-1302/FT/06	9848
2006	Good, K.		Spirit Lake Tribe-Indian Health Service-Scott Lieben Sewer Project - A Class III Cultural Resource Inventory-AA0-1302/FT/06	9847

Year	First Author	Second Author	Title	Ms #
2006	Good, K.		Spirit Lake Tribe Andrew Shaw Waterline Project a Class III Cultural Resource Inventory AA0-1302/FT/06, Benson Co., ND	9816
2006	Good, K.		Spirit Lake Tribe Beatrice and Sandra Jaromo Waterline Project-A Class III Cultural Resource Inventory-AA0-1302/FT/06	9845
2006	Good, K.		Spirit Lake Tribe Brenda Belgard Waterline Project-A Class III Cultural Resource Inventory-AA0-1302/FT/06	9844
2006	Good, K.		Spirit Lake Tribe Frank Myrick Waterline Project a Class III Cultural Resource Inventory AA0-1302/FT/06, Benson Co., ND	9815
2006	Good, K.		Spirit Lake Tribe George Cavanaugh Waterline Project a Class III Cultural Resource Inventory AA0-1302/FT/06, Benson Co., ND	9812
2006	Good, K.		Spirit Lake Tribe Herminia Belgard, Imogene Belgard and Joey LaCroix Waterline Project a Class III Cultural Resource Inventory AA0-1302/FT/06, Benson Co., ND	9811
2006	Good, K.		Spirit Lake Tribe Leila, Pete, Francis, and Bonnie Owlboy Waterline Project-A Class III Cultural Resource Inventory-AA0-1302/FT/06	9846
2006	Good, K.		Spirit Lake Tribe Lolita & Oliver Gourd Waterline Project a Class III Cultural Resource Inventory AA0-1302/FT/06, Benson Co., ND	9814
2006	Good, K.		Spirit Lake Tribe Stella Cavanaugh Waterline Project a Class III Cultural Resource Inventory AA0-1302/FT/06, Benson Co., ND	9813
2006	Good, K.		Spirit Lake Tribe Tokio Recreation Center Waterline Project-A Class III Cultural Resource Inventory-AA0-1302/FT/06	9843
2006	Good, K.		Spirit Lake Tribe Tribal Headquarters Project A Class III Cultural Resource Inventory, Benson Co., ND	9892
2006	Good, K.		Spirit Lake Tribe Vincent Shaw Waterline Project a Class III Cultural Resource Inventory AA0-1302/FT/06, Benson Co., ND	9817
2006	Good, K.		SS-2-026(005)007 Class III Inventory Report, Barnes Co., ND	9922
2006	Harty, J.		Bridge 32-118-33.0 Replacement Project in Nelson Co., ND	9736
2006	Harty, J.		Improvements Along Highway 32: A Class III Cultural Resource Inventory in Nelson, Steele & Griggs Counties, ND	9840
2006	Harty, J.		Improvements Along I-29 From North Fargo to Argusville: A Class III Cultural Resource Inventory, Cass Co., ND	9854
2006	Heiner, P.	J. Morrison	Barnes Co., Municipal Airport: A Class III Cultural Resource Inventory, Barnes Co., ND	9640
2006	Heiner, P.		Leval Township Grading and Borrow Area Project: A Class III Cultural Resource Inventory, Nelson Co., ND	9643
2006	Kinney, W.		Barnes County ND Borrow Pit, Haul Road and Old Trail Removal, NDDOT Project Number AC-IM-2-094(068)295. A Class III Cultural Resource Inventory Report	9887
2006	Klinner, D.	J. Morrison	Enbridge Pipelines (ND) LLC, Phase 4 Pipeline Expansion Project Pumping Stations: A Class III Cultural Resource Inventory, Grand Forks, McHenry, Mountrail, & Ramsey Counties, ND	9855
2006	Klinner, D.	L. Hafermehl	ND Highway 1: A Class III Cultural Resource Inventory in Hannaford, Griggs Co., ND	9685
2006	Klinner, D.		Southeast Water Users District, LaMoure Reservoir to West Lisbon Reservoir and Water Pipeline: A Class III Cultural Resource Inventory in LaMoure & Ransom Co., ND	9782
2006	Kordecki, C.		Lakota Sewage Lagoon 2006 Cultural Resources Inventory, Nelson Co., ND	9795

Year	First Author	Second Author	Title	Ms #
2006	Kulevsky, A.		Holen Pit Expansion: A Class III Cultural Resource Inventory in Sheridan Co., ND	9765
2006	Morrison, J.		9th Ave. NW Reconstruction: A Class III Cultural Resource Inventory, Barnes Co., ND	9628
2006	Murdy, C.		Reconnaissance Cultural Resource Surveys of Two Proposed Construction Materials Source Areas on the Spirit Lake Reservation, Benson Co., ND	9730
2006	Pezzoni, J.	M. Eades	Aberdeen Area Indian Health Service Historic Resources Survey Project Report: Abridged Version for ND State Historic Preservation Office, Mountrail, Benson, Sioux, Rolette Counties	9914
2006	Stine, E.		Addendum to Valley City Technology Park: A Class III Cultural Resource Inventory, Barnes Co., ND & Addendum B	9620
2006	Stine, E.		Hegland Gravel Pit: A Class III Cultural Resource Inventory in Benson Co., ND	9826
2006	Stine, E.		Highway 30: A Class III Cultural Resource Inventory in Benson & Wells Counties, ND	9947
2006	Stine, E.		Living Snow Fence Projects: A Class III Cultural Resource Inventory in Adams, Benson, Bottineau, Emmons, Griggs, McLean, Mountrail & Stutsman Counties, ND	9888
2006	Swearson, W.		The Richman Survey, Cass Co.: A Class III Cultural Resource Inventory, ND	9787
2006	Wermers, G.		ROW-163.a & ROW-163.b Class III Inventory Report, Nelson Co., ND	9677
2006	Wermers, G.		ROW-165 Class III Inventory Report, Benson Co., ND	9665
2006	Wermers, G.		STATEOP-0350/PI-016 Class III Inventory Report, Barnes Co., ND	9601
2006	Wermers, G.		STATEOP-0454 Class III Inventory Report, Steele Co., ND	9687
2007	Burns, C.		The Young Material Source Area: A Class III Cultural Resource Inventory, Ransom Co., ND	10104
2007	Burns, W.		New Rockford Bridge Survey, James River Crossing: A Class III Cultural Resource Inventory	10115
2007	Good, K.		Spirit Lake Tribe Rolling Hills Waterline Project Class III Cultural Resource Inventory, Benson Co., ND	10150
2007	Hiemstra, D.		Bridge #48-110-29.0 Replacement: A Class III Cultural Resource Inventory Near Bisbee, in Towner Co., ND	10067
2007	Hiemstra, D.	A. Barth	Nilson Pit: A Class III Cultural Resource Inventory for a Proposed Materials Pit in Benson Co., ND	10103
2007	Hiemstra, D.		ND Forest Service Wildfire Protection Grant Program: A Class III Cultural Resource Inventory of Select Areas in Bottineau and Benson Counties, ND	10034
2007	Kinney, W.		A Proposed Area, Staging Area, and Haul Road in Ramsey Co., ND NDDOT Project Number SER-3-002(089)275. A Class III Cultural Resource Inventory	9963
2007	Kinney, W.		A Proposed Benson County ND Borrow Pit for NDDOT Project Number CER-3607(058). A Class III Cultural Resource Inventory	9961
2007	Kinney, W.		Proposed Ramsey County ND Borrow Area for NDDOT Project Number CER-3607(058). A Class III Cultural Resource Inventory	9960
2007	Kinney, W.		The Bachmeier Pit, A Class III Cultural Resource Inventory in Eddy Co., ND for NDDOT Project Number AC-SNH-SIB-3-002(082)267	10081
2007	Kinney, W.		Three Proposed Gravel Pits in Ramsey Co., ND for NDDOT Project Number SER-3-002(088)262. A Class III Cultural Resource Inventory Report	9962

Year	First Author	Second Author	Title	Ms #
2007	Klinner, D.		Aggregate Industries Sheyenne Sand & Gravel Project: A Class III Cultural Resource Inventory, Eddy & Benson Counties, ND	9951
2007	Klinner, D.		Dead Colt Creek Recreation Area Roadway: A Class III Cultural Resource Inventory, Ransom Co., ND	10058
2007	Klinner, D.		Emergency Water Source and Treatment Project, City of Devils Lake: A Class II & III Cultural Resource Inventory in Eddy, Nelson & Ramsey Counties, ND	10041
2007	Kluth, D.		A Cultural Resource Inventory of Three Proposed Fiber Duct Installations in North Central ND, McHenry, Ward, & Ramsey Counties	10046
2007	Stine, E.		American Rock & Sand's S. Weisenberger Pit: A Class III Cultural Resource Inventory in Eddy Co., ND	9973

In the summer of 1959 and 1960, some relict Lake Agassiz beaches were surveyed by the University of Minnesota. Several sites were located, including one yielding Folsom projectile points (Johnson 1962:160-161). Surveys on the Lake Agassiz floodplain (Michlovic 1978, 1981) have identified numerous prehistoric sites ranging from Paleo-Indian (Agate Basin) and Early Archaic (Oxbow) to Late Woodland (Blackduck and Sandy Lake) remains.

In 1965, Mallory (1966) surveyed areas in the upper Sheyenne basin. Mounds, open camps, stone circles, cairns, rock alignments, and bison kill sites were recorded.

Nelson (1973:8-23, 51-58, 63) reported petroglyphs, mounds, and rock alignments near Fort Ransom and excavated 32SH2.

In the 1970s the University of North Dakota (UND) undertook a series of surveys on the upper Sheyenne in the vicinity of the proposed Lonetree Reservoir. In 1973, 23 new sites were located. Of these sites, nine contained stone circles, 12 contained cairns, five were open camps, one contained a rock alignment, and one was a depression (Schneider 1974). The sites could not be assigned to cultural periods due to the lack of diagnostic artifacts. In 1974, 60 new sites were located (Schneider 1976:6). Thirty-six sites contained stone circles, 31 had cairns, three were open camps, and one was an eagle trap. Also surveyed in 1974 was the area to be impacted by the New Rockford canal (Schneider 1976).

In 1975, UND conducted a cultural resource inventory of the central portion of the Garrison Diversion project in the vicinity of Devils and Stump Lakes (Schneider et al. 1976). Four mound sites were located along the Sheyenne River in Nelson County. In the Sheyenne basin area of Eddy and Benson counties, two mound sites and a stone circle and mound site were recorded (Schneider et al. 1976).

The proposed Kindred Dam project resulted in a comprehensive literature review for the Sheyenne basin (Vehik and Vehik 1977). In addition, a survey was conducted of lands to be affected by the proposed inundation (Vehik 1979). Vehik

recorded 56 prehistoric sites including 22 open campsites, 11 mounds, one stone circle, and two possible earthlodge villages or fortifications (Vehik 1979:53).

Beckes and Keyser (1983) report several surveys conducted within the Sheyenne National Grassland in Ransom County. A section of land was surveyed by the SHSND with negative results (Peterson 1982). The lack of sites is suggested to be the result of poor field conditions (Beckes and Keyser 1983:129). This indicates more intense survey methods should be employed in heavily vegetated areas. Michlovic (1993) convincingly argues for the routine use of shovel testing during archeological survey of obscured land surfaces. The US Forest Service has conducted several in-house surveys in the Sheyenne National Grasslands. Several range improvement projects in the Choppy Sand Hills resulted in surveys producing negative results. In 1982, approximately 2,000 acres were surveyed. Beckes and Keyser (1983) state that the “survey provided excellent data on the relationship between archeological site distribution or visibility and postglacial depositional mechanics on the Sheyenne District.” Several sites were recorded including two multi-component camp or village sites along the Sheyenne River (Alien and Beckes n.d.) as well as several Late Woodland occupations (Beckes and Keyser 1983).

In 1985, UND conducted a Class II Reconnaissance Inventory of 709.8 km<sup>2</sup> (273 square miles) in the Sheyenne River basin (Haury and Schneider 1986:10). A total of 102 prehistoric and/or historic sites were recorded. Of the 61 sites with prehistoric components, Middle and Late Archaic, Middle and Late Woodland, and Plains Village periods were documented. Site types include mounds and mound groups, cultural material scatters, and stone features. Six Middle and Late Archaic sites were documented and results from the survey indicate buried Archaic sites are “likely to be found in the alluvial soils of the first terrace of the Sheyenne River” (Haury and Schneider 1986:253).

In 1989, a Historic Preservation Fund grant (*Documentation of Northwestern Archaeological Survey Sites Project*) was awarded to UND (Haury 1990). The primary purpose of the project was to relocate, verify, and record on current NDCRS site forms sites Lewis identified a hundred years earlier. All of the sites in Benson County previously recorded by Lewis were relocated during the 1989 project. In Barnes County two mound sites were relocated, one was determined to be destroyed, and the remaining two were not relocated. In Ransom County, 35 of the 62 earthwork sites recorded by Lewis have been relocated. During the 1989 survey, an effort was made to determine the reason (i.e., probably destroyed, possible legal location problems, or inconclusive) for not relocating the earthwork sites. This information is presented in tabular form by site lead number in the report. In addition to site descriptions and maps, the report by Haury (1990) provides a summary of Lewis' work in North Dakota, a discussion concerning the utility of the Northwestern Archaeological Survey (i.e., accuracy of the records and limitations of the records), and a summary of site types and design of prehistoric mound sites as indicated by the Northwestern Archaeological Survey records.

In 1992, Minnesota State University Moorhead intensively surveyed 1,215 ha (3,000 acres) of the Maple River Valley in southwest Cass County. Twenty-three prehistoric sites, seven historic sites, and 25 site leads/isolated finds were recorded. A number of these were discovered only through the use of shovel testing. Based on this survey, a site density of about 7.3 sites per square kilometer is indicated for the Maple River area (Michlovic 1992:56). Examination of the bank revealed Holocene alluvium is at least 2 m deep along the Maple River.

### *Fort Ransom*

In 1993, UND conducted an intensive cultural resource inventory of Fort Ransom State Park (Kordecki 1994). A canoe survey of the Sheyenne River and auger probes supplemented the pedestrian survey. The inventory resulted in the recordation of six prehistoric artifact scatters; one of these (32RM113) also contains a historic component. As documented by investigators, all of the prehistoric sites are located on low terrace/floodplain landforms (ibid.:52). Four of the prehistoric sites (32RM93, 32RM110, 32RM111, and 32RM112) had no surface expression but were located by auger probing. Ceramics were recovered at three of the sites and chipped stone artifacts and bone fragments were common to all of the sites (ibid.:Table 1). The ceramics indicated a late prehistoric occupation but no further cultural/temporal affiliations could be discerned (ibid.:52). Quartzite accounted for the majority of the lithic material but Knife River flint (KRF) and TRSS were also present. Investigators suggest the sites functioned as field camps or habitation sites (ibid.).

The Hanson Mounds site (32RM117), located on private property west of the Fort Ransom State Park boundary was also recorded by UND. As originally recorded in the 1930s, the site contained five mounds. However, in 1993 only three mounds were observed. The three earthen mounds are on the edge of a bluff with a view over the Sheyenne River valley (ibid.:39).

### *Lake Jessie*

In 1995, approximately 1,050 acres within the Drift Prairie region were intensively inventoried by UND (Kordecki and Toom 1996:1). "The project intended to produce information that would contribute toward our knowledge of the numbers and kinds of sites that are found adjacent to the larger Drift Prairie lakes" (ibid.:iii). The project areas were near Lake Jessie in Griggs County and Spiritwood Lake in Stutsman County. The Lake Jessie project area (approximately 650 acres) is within the Sheyenne River Study Unit. The Spiritwood Lake project area is within the James River Study Unit.

The eastern portion of the project area is ground moraine with little relief. In contrast, the western portion is the Cooperstown end moraine where the relief is greater and varies considerably. As reported by investigators, good ground

surface visibility resulted in the recordation of seven archeological sites and four archeological site leads (ibid.:Table 2). The property types include three cultural material scatters, two mounds, one cairn, and one depression (ibid.). Sites within the Sheyenne River Study Unit were located on two types of landforms. The cultural material scatters were found eroding from cutbanks of a low terrace (ibid.). The cairn and mounds were observed atop ridges, west of Lake Jessie (ibid.:30). The prehistoric depression is on a ridge above springs (ibid.). Investigators concluded that these combinations of property types and landforms reflect general trends throughout both project areas. That is, occupation sites (cultural material scatters) generally are located at lower elevations and the other site types generally were constructed at higher elevations (ibid.:79).

### *Camp Grafton North*

During the autumn of 2001, UND conducted an intensive cultural resources inventory of approximately 1,000 acres within the Gilbert C. Grafton State Military Reservation (Camp Grafton North) for the North Dakota Army National Guard (Jackson and Kordecki 2003:iii). The project area is within the Devils Lake basin of the Drift Prairie and bounded by Devils Lake to the west, south, and east. When lake levels are high the area is an island (historically known as Rock Island). Very poor ground surface visibility resulted from dense vegetation; therefore, shovel and auger probes were routinely used to supplement the pedestrian survey (ibid.).

Five archeological sites and three archeological site leads were recorded during the survey of Camp Grafton North. Additionally, three previously recorded sites and two site leads were updated. All of the archeological sites and site leads are cultural material scatters. Common artifacts include chipped stone flaking debris and tools, pottery, fire-cracked rock, and animal bone fragments (ibid.:5.26). The sites are situated on various landform types, including: six sites and one site lead on high lacustrine bench/terrace landforms, two sites on upland hilltops, two sites on upland ridges, two site leads on upland knolls, and one two site leads in rolling uplands (ibid.:Table 5.3). Investigators write (ibid.:5.26),

The best archeological sites at Camp Grafton North, which contain the densest and most diverse artifact assemblages, are located along the edge of the high lake terrace or bench that overlooks Devils Lake. This bench is above the highest lake strandline, which is located at about 1450 ft in elevation. There are also good sites located in the rolling uplands behind this bench. The best among these sites are located the closest to the bench, and, by default, closest to the lake. Devils Lake, the only reliable and permanent water source in the area, is seen as a critical factor that influenced the spatial patterning of archeological sites at Camp Grafton North.



## *Pipelines*

In 1996 and 1997, inventory of the proposed Alliance pipeline was conducted (Stine et al. 1998b). The pipeline in North Dakota crosses 14 counties from Renville County southeast to Richland County. Investigators surveyed approximately 149 miles (approximately 3,536 acres) of the 324-mile long pipeline (ibid.:25). The survey corridor ranged from 200-300 ft wide with pedestrian transects averaging 15 m apart (ibid.:ii). Pedestrian survey was augmented by shovel tests spaced 10 m apart in areas with a higher probability of archeological sites (ibid.). The inventory included not only the pipeline corridor but also survey of shooflies, access roads, and compressor station sites (Fassler 2000; Forsberg et al. 2000; Kulevsky and Hannum 1999). Forty-four prehistoric sites were recorded during the initial survey; 19 buried cultural material scatters, 16 cultural material scatters, 7 stone circle sites, 1 cairn site, and 1 cairn/cultural material scatter site (ibid.:Table 4). Investigators recommended Phase II testing for all of the sites.

The proposed construction of an approximately 1,845-mile long crude oil pipeline (TransCanada), originating in Canada and terminating in Illinois and Oklahoma, necessitated Class I, II, and III cultural resource inventories in eastern North Dakota (Bleier et al. 2006). Driven by a geomorphologist, the Class II inventory covered 100% of the original pipeline route. The Class III inventory was a 31% sample of the proposed pipeline route(s). The sample segments represent higher probability areas (ibid.:ii). The pedestrian survey was supplemented by shovel probes in areas of reduced ground surface visibility. Counties within the Sheyenne River Study Unit include Steele, Barnes, and Ransom. Terrain along the proposed route generally is flat to gently rolling plains with wetlands. The contemporary landscape is a patchwork of cultivated fields, pasture, and Conservation Reserve Program (CRP) fields. During the Class III inventory, two archeological sites, one archeological site lead, and six archeological isolated finds were recorded within the Sheyenne River Study Unit (ibid.:Table 10).

Along the 2006 proposed TransCanada pipeline route, the six archeological isolated finds and site lead consisted of chipped stone flaking debris and tool fragments. Shovel probes were excavated at site lead 32RMx89, located on a terrace west of the Sheyenne River. The recovered material included one obsidian artifact that was tentatively identified as a snapped blade (ibid.:40). Investigators suggest that the presence of such an artifact is indicative of trade and/or travel during the Middle Woodland period (ibid.). Swan River chert, brown chert, white chert, and KRF comprise the lithic raw materials of the isolated finds (ibid.:Table 11). Site 32RM160 is a cultural material scatter situated on a terrace east of the Sheyenne River (opposite 32RMx89). Materials recovered at the site were unburned and burned bone fragments, KRF flakes, and native pottery (ibid.:38). Phase II testing was conducted at 32RMx89 and 32RM160 in the fall of 2006 (see Test Excavation Projects section below). Site 32BA170 is a sparse lithic scatter located on a small rise in a plowed field. Lithic material at the

site was 99% Swan River chert and 1% KRF (ibid.:33). In general, the documented site settings and material types are not unexpected (cf. Table 12.2).

Numerous archeological sites have been recorded in eastern North Dakota along sampled, cross-state linear project corridors, such as the Alliance and TransCanada inventories. More surveys of this nature inevitably would result in the recordation of more archeological sites.

### Test Excavation Projects

Table 12.5 presents a list of manuscripts from test excavation projects within the Sheyenne River Study Unit.

**Table 12.5: Test Excavations in the Sheyenne River Study Unit, 5-Sept-2007.**

Year	First Author	Second Author	Title	Ms #
1979	Fox, R.	L. O'Brien	Report of Investigations: Auger Tests for Subsurface Cultural Resources at Sullys Hill Game Preserve Fort Totten, Benson Co., ND	3170
1982	Brown, M.	K. Brown	Test Excavations at Sites 32WE101, 32WE103, 32WE109 & 32WE122, Located in the Proposed Lonetree Reservoir & Dikes & New Rockford Canal, Wells Co., ND	3111
1982	Fox, R.		Phase II Testing at a Prehistoric Site (32BA418) at Lake Ashtabula (Sheyenne River), Barnes Co., ND	2761
1982	Schneider, F.		Sprenger: A Tipi Ring Site in Central ND in Sheridan Co., ND	2777
1983	Deaver, K.		Archaeological Site Testing & Evaluation in the Lonetree Reservoir, Garrison Diversion Unit, Sheridan & Wells Counties, ND	3240
1984	Dill, C.		The Devils Lake Burials: An Evaluation of Site 32RY100	3318
1984	Gnabasik, V.	M. Gregg	Phase II Testing at 32BA3, Barnes Co., ND	3248
1984	Kuehn, D.	M. Gregg	Phase II Archaeological Testing at 32BA414 Lake Ashtabula, Barnes Co., ND	3252
1984	Snortland, J.	K. Good	The Archeological Component of Devils Lake Burial Site (32RY100)	4655
1986	Deaver, K.		Archaeological Excavation at Sites 32SH110 & 32WE107, Sheridan & Wells Counties, ND	3947
1986	Schneider, F.		Sharbono Site in Benson Co., ND Test Excavations: 1986	4644
1988	Persinger, R.		Archeological Testing of Sites 32CS42 & 32CS44 Cass Co., ND	4715
1990	Banks, K.		Preliminary Report: Testing Program Grahams Island State Park, Ramsey Co., ND	5202
1990	Banks, K.		Testing/Evaluation & Monitoring Programs; The Horner-Kane Site (32RY77), Grahams Island State Park, Ramsey Co., ND	5069
1990	Michlovic, M.		The Lucas Site(32RM225): A Fortified Prehistoric Site in the Sheyenne River Valley, Ransom Co., ND	5041
1990	Späth, C.		Cultural Resources Investigation: Fort Ransom State Park, Ransom Co., ND	5307
1991	Picha, P.	M. Gregg et al.	Test Excavations in 1990 at 32RY77, Grahams Island State Park, Ramsey Co., ND	5549
1991	Pool, K.	R. Christensen	A Class III Inventory & Limited Testing of a Proposed Campground in Fort Ransom State Park, Ransom Co., ND	5305
1992	Stine, E.	K. Pool	The Camp Grafton Site: Evaluative Subsurface Testing of 32ED85 in Eddy Co., ND	5825
1993	Gregg, M.		1991 Site Limits Investigations at the Horner-Kane Site (32RY77), Grahams Island State Park, ND	6197

Year	First Author	Second Author	Title	Ms #
1993	Kulevsky, A.		Lake Ashtabula Phase II Testing of Sites 32BA421 & 32GG14 in Barnes & Griggs Counties, ND	6154
1993	Kulevsky, A.	E. Stine	Lake Ashtabula Phase II Testing of Sites: 32BA425, 32GG11 & 32GG13 in Barnes & Griggs Counties, ND	6151
1993	Michlovic, M.		Archaeological Test Excavations at 32RM92, Ransom Co., ND	5949
1994	Driscoll, P.	D. Toom et al.	Grahams Island State Park Archeological Test Excavations For Proposed Recreation Facilities, Ramsey Co., ND, 1993 Field Season	6218
1994	Kulevsky, A.		Phase II Testing of Sites 32BA424 & 32GG10 in Barnes & Griggs Counties, ND	6387
1996	Michlovic, M.		Archaeological Test Excavations at the Solhjem Site (32 RI718), Richland Co., ND	6752
1996	Rothwell, S.	T. Larson	Results of Phase II Testing at 32BA406 & 32BA413, Barnes Co., ND	6837
1997	Kinney, W.		Two Benson County Borrow Areas for Road Project No. BIA-3-097(003) and BIA-3-097(004). A Class III Cultural Resource Report	7062
1998	Christensen, R.		Devil's Lake Archaeology: Testing Four Sites at Court Lake, Benson Co., ND	7128
1998	Stine, E.	M. Cassell et al.	Alliance Pipeline Project: Phase II Testing & Evaluation of 37 Sites in ND, Vols. I & II	7212
1998	Stine, E.	M. Hannum et al.	Phase II Testing & Evaluation of 21 Sites & Five Sites Revisited An Addendum to Alliance Pipeline Project: Phase II Testing & Evaluation of 37 Sites in ND	7329
1999	Jackson, M.		Grahams Island State Park 1999 Auger Probe Survey of the Proposed Ranger Residence Relocation Area & the Proposed Central Campground, Ramsey Co., ND	7551
1999	Michlovic, M.	Sather, D.	Archaeological Testing at 32CS4677: Kindred-Davenport Regional Airport	7435
2000	Kordecki, C.	D. Toom	Stump Lake Evaluative Archeological Test Excavations at Site 32NE402, Nelson Co., ND	7573
2000	Stine, E.	A. Kulevsky et al.	Phase II Testing & Evaluation of Four Archaeological Sites, 32GG3, 32GG236, 32BA7, & 32BA14 at Lake Ashtabula, Griggs & Barnes Co., ND	7626
2001	Good, K.		32BE67 Evaluative Testing	7902
2001	Good, K.		To Borrow or Not to Borrow: Limited Testing of 32BE85, Benson Co., ND	7900
2002	Jackson, M.	D. Toom	Bivouac Site (32RY189) Evaluative Test Excavations Within the Gilbert C Grafton State Military Reservation, Ramsey Co., ND	8407
2003	Ollendorf, A.	J. Arndt et al.	Cultural Resources Management Testing & Evaluation of 32CS0046, Cass Co., ND	8732
2005	Jackson, M.	D. Toom et al.	Camp Grafton North 2002-2003 Archeological Test Excavations, Ramsey Co., ND	9322
2006	Jackson, M.	C. Kordecki et al.	Camp Grafton South Upland Sites: 2002-2004 Archeological Test Excavations, Eddy Co., ND	9739
2007	Toom, D.	M. Jackson et al.	Camp Grafton South Lowland Sites: 2002-2004 Archeological Test Excavations, Eddy County, ND	--
2008	Michlovic, M.		Archaeological Test Excavations at the Peterson Site (32RM401), Ransom County, ND	--

Kivett (1948:8) conducted test excavations at three permanent villages (32BA5, 32BA6, and 32GG2) and two temporary camps (32BA2 and 32BA3). He prepared brief descriptive reports of the pottery from these sites but they were not site specific and are, therefore of limited value.

A stone circle and a cairn from 32SH2 were excavated. The stone circle yielded a projectile point and some scrapers while the cairn produced nothing (Mallory 1966:39-42). 32SH8 was suggested to have been Plains Woodland campsite (Mallory 1966:44). 32SH203, which contained stone circles and cairns, was interpreted as Plains Woodland (Mallory 1966:45).

A number of sites were tested in the vicinity of the proposed Lonetree Reservoir in the mid 1970s. Test excavations of two cairns from 32SH2 yielded little material and the same was true of a stone circle from 32SH116 (Schneider 1974). In 1994, UND revisited 32SH116, observed far fewer rings than Schneider (1974), but nonetheless agreed with the earlier findings (Toom et al. 1998:iv). Site 32SH7 was a bison kill site with some cord roughened pottery and corner-notched projectile points or hafted knives (Schneider 1974). Excavations were conducted at 25 of the sites recorded during the 1974 field season. Site 32SH121, a cairn, yielded nothing (Schneider 1976:17-20). 32SH203 was a supposed mound site which also yielded nothing and may have been a natural feature (Schneider 1976:24). Twenty-two of the sites tested contained stone circles. Distribution analysis indicated that sites on the uplands were characterized by either greater technological activity and/or longer occupation than was true for those in the bottomlands (Schneider 1976:40).

A bison kill site (32SH7) was tested in 1973 and 1974. The site is interpreted as being a trap or pound. The site has been described by Larson (1976) and appears to date to the Post-Contact Coalescent.

Fox (1979) tested the Irvin Nelson site (32BE208) by excavating six 1 x 1 meter square units. Historic, Archaic, and Woodland components are represented.

Brown and Brown (1982) tested four sites (32WE101, 32WE103, 32WE109, 32WE122) in the vicinity of the proposed Lonetree Dam and Dikes and New Rockford Canal. Basically no information was gleaned from the testing program. At 32WE122, Brown and Brown (1982) suggest a Middle Woodland occupation based on a side-notched projectile point. However, Deaver (1983) classifies the point as Old Woman's (Plains side-notched) which probably represents Late Woodland or more likely a Plains Village occupation.

The University of North Dakota tested 32BA418 by placing five one square meter test units in the site. A Woodland bison processing station is suggested (R. Fox 1982).

Nine sites were tested in the Lonetree Reservoir in Sheridan and Wells counties by Deaver (1983). The sites are primarily stone circle and cairn sites. The sites that were tested include 32SH117, 32SH111, 32SH108, 32WE107, 32SH138, 32WE117, 32SH159, 32SH118, and 32SH110. Sites 32SH117 and 32SH111 were determined to be a single site consisting of 35 stone circles and 10 cairns. The site is now listed as 32SH117.

Six one meter square units and 90 auger and shovel tests totaling 3.9 m<sup>3</sup> of site matrix were test excavated at 32BA3 (Gnabasik 1983; Gnabasik and Gregg 1984). The testing program revealed the site was a late prehistoric campsite with evidence of big game butchering, bone grease rendering, and hide processing activities.

Site 32BA414 was tested using seven one meter square units and auger probes. A Late Plains Woodland (AD 900-1350) campsite of short duration is suggested (Kuehn and Gregg 1984).

Sites 32BA415, 32BA428, and 32GG5 were tested by North Dakota State University (NDSU) (Fox 1984). A Plains Woodland bone marrow rendering area was postulated for 32BA415. At 32GG5 a Plains Woodland occupation is suggested. A Late Plains Archaic cultural affiliation is identified for 32BA428.

Site 32SH110 consists of two stone circles and eight cairns. One cairn and half a ring were excavated totaling 28.13 m<sup>2</sup>. The cairn was interpreted as a trash dump of discarded material from house floors (Deaver 1986). A TL date of 930BP±70 (Alpha-2634) was obtained from the site.

The Shea site (32CS101) was initially tested in 1985 with five two by one meter test units. In 1987, 19 two by one meter units were excavated (Michlovic and Schneider 1988). The site is a fortified late prehistoric village dating to ca. AD 1448 based on six radiocarbon samples. The site is affiliated with the Northeastern Plains Village complex (Michlovic and Schneider 1993:117).

The Dahnke-Reinke site (32CS29) was tested in 1985, 1986, and 1987 (Michlovic 1987; Thompson 1990:26). The Dahnke-Reinke site has multiple components. The existence of a possible Archaic, Early Woodland, Middle Woodland (Sonota and Fox Lake pottery) and Late Woodland (Sandy Lake) components are suggested (Thompson 1990).

In 1986, the Sharbono (32BE419) site was tested (Schneider 1988). The site is on the high strandline of Devils Lake. There is evidence for Archaic, Plains Village, and Late Woodland occupations. The ceramic assemblage exhibits attributes similar to eastern North Dakota Woodland ceramics, Missouri Valley Plains Village ceramics, and combinations of Woodland and Plains Village attributes (Schneider 1983, 1988).

In 1986, 32CS30 was tested (Michlovic 1987). The Wichman site is a Late Woodland (Sandy Lake) occupation.

Cultural Research and Management, Inc. (1988) tested sites 32CS42 and 32CS44. The testing program at 32CS42 consisted of 106 auger probes and four 1 x 1 meter units. The site is postulated as dating to the Late Woodland period. Based on ceramics recovered during the survey, Floodman (1987) suggested a possible early phase Blackduck cultural affiliation. Site 32CS44 was tested using 36 auger probes and four 1 x 1 meter units. This site is suggested to date to the Late Woodland period (CRM, Inc. 1988).

At the Lucas site (32RM225) five one meter square units were excavated in 1989 (Michlovic 1990). The site is a small, fortified (26 m N-S, 35 m E-W) late prehistoric village. Ceramics show similarities to Woodland (Blackduck) and Plains Village wares (Michlovic 1990:17).

The Peterson site (32RM401) is a fortified settlement and cultural material scatter located on uplands above the Sheyenne River. Archeologists from Minnesota State University Moorhead and volunteer students excavated five 1-x-1-m test units at the site in 2007 (Michlovic 2008a). Recovered artifacts include chipped stone flaking debris, core fragments, fire-cracked rock, triangular points resembling those from the Shea and Sprunk sites, and Sandy Lake and Northeastern Plains ceramic wares (ibid.:7-13). Investigators posit the Peterson site as a component of the Shea phase (ibid.:14), part of the Northeastern Plains tradition (Toom 2004).

### *Grahams Island*

In 1990, test excavations were conducted at Horner-Kane (32RY77). Site 32RY77 is an extensive multiple component prehistoric archeological site along Devils Lake (Picha and Gregg 1991). Late Plains Archaic (Pelican Lake), Middle Plains Woodland (Sonota), Late Plains Woodland (Sandy Lake), and early Plains Village (Northeastern Plains Village complex) occupations are present (Picha and Gregg 1991). Two radiocarbon assays from the Northeastern Plains Village complex component date to the late 1600s (Gregg 1994). The Horner-Kane site was tested earlier by the Bureau of Reclamation (Banks 1990). At that time four one meter squares were excavated.

In 1991, site limits to the west and southwest were more accurately discerned at the Horner-Kane site (Gregg 1993). Fieldwork included surface inspection and auger probes (n=100) (ibid.:5). Recovered materials include ceramics, flaking debris, chipped stone and ground stone tools, fire-cracked rock, bone fragments, and charcoal (ibid.:Table 1). In addition, four positive auger probes 200 m southwest of Horner-Kane revealed a new, smaller prehistoric site (32RY810) (ibid.:9).

In 1994, Gregg reported of a salvage excavation program also conducted in 1991 at the Horner-Kane site. Three components were identified: Middle Plains Woodland (100 BC-AD 600), early Fur Trade (AD 1600-1700), and historic (Gregg 1994:iii). Dating of the site was based on ceramic types, radiocarbon analysis of two bison bone samples, and the presence of expedient chipped stone tools (ibid.). Investigators note that the salvage excavation totaled 69 m<sup>2</sup>, which amounts to 0.02% of the total site area (ibid.:1.1).

More testing was conducted at Grahams Island State Park in 1999. Surface inspection and auger probes were placed within the area of the proposed ranger residence and central campground, the latter adjacent to the boundaries of the Horner-Kane site (Jackson 1999:Figure 1). The four auger probes in the ranger residence portion of the project area contained no cultural materials (ibid.:14). Two pieces of flaking debris were recovered from the 41 auger probes placed within the limits of the proposed campground. However, investigators indicate that the portion of the Horner-Kane site to the southeast of the auger probes is potentially significant and recommended avoidance.

### *Camp Grafton North*

In 2002 and 2003, UND conducted test excavations at 14 sites within the boundaries of Camp Grafton North (Jackson et al. 2005). Camp Grafton North is located on the north-central side of Devils Lake, in the Drift Prairie region. Nine of the sites were recommended as archeologically not significant or eligible for the NRHP (ibid.:iii). Three of the sites (32RY386, 32RY388, and 32RY390) require additional testing in order to make accurate recommendations (ibid.). However, two sites (32RY387 and 32RY389) are notable for the archeological information gleaned from them (Figure 12.2).

**Figure 12.2: Re-creation of a table provided by Jackson et al. (2005) of tested sites at Camp Grafton North in 2002-2003.**

Table 18.1. Summary Information on 14 Archeological Sites, Camp Grafton North Testing, 2002-2003 UND Fieldwork.

Site	Site Type	Component(s) by Period	Settlement Type	Condition
32RY145	Artifact Scatter	Prehistoric ceramic, unspecified	Field camp	Extant, but surrounded by camp construction
32RY147	Artifact Scatter	Prehistoric ceramic, unspecified	Field camp or game lookout location	Extant
32RY148	Artifact Scatter	Early ceramic; Middle NE Plains Village	Field camp	Extant
32RY149	Artifact Scatter	Prehistoric, unspecified	Indeterminate	Extant
32RY386	Artifact Scatter	Late ceramic; Early Historic (Ft. Totten); Late Historic (Camp Grafton)	Field camp or location; Logging camp?; Training camp?	Extant
32RY387	Artifact Scatter	Middle Plains Woodland; Middle Minnesota Woodland; Late Minnesota Woodland	Field camp or residential base	Extant, but site margins impacted by prior road and building construction
32RY388	Artifact Scatter	Middle Minnesota Woodland; Late Minnesota Woodland	Field camp	Extant
32RY389	Artifact Scatter	Late Plains Archaic <sup>1</sup>	Field camp	Partially destroyed by borrow area
32RY390	Artifact Scatter	Middle NE Plains Village; Protohistoric	Field camp	Extant
32RY392	Artifact Scatter	Early NE Plains Village	Field camp	Extant
32RYX49	Artifact Scatter	Prehistoric, unspecified	Indeterminate	Extant
32RYX50	Artifact Scatter	Prehistoric ceramic, unspecified	Indeterminate	Extant
32RYX51	Artifact Scatter	Prehistoric, unspecified	Indeterminate	Extant
32RYX135	Material Scatter	None	None (not a site)	Extant

<sup>1</sup>Block unit excavations conducted at 32RY389 in 2004 confirmed the presence of a single Late Plains Archaic, Pelican Lake complex component.

The North Gate site (32RY387) is a multi-component artifact scatter within a heavily forested area, disturbed by modern construction to the north, west, and south (ibid.:9.1). A large depression is central to the site and contained a high density of artifacts including, 756 body sherds and 9 rim sherds (ibid.:9.29). Several cultural complexes were identified as a result of the ceramic analysis, including: Sandy Lake (ca. AD 900-1750); perhaps Onamia (ca. AD 800-1000); Brainerd (ca. AD 600-800); and Sonota (ca. AD 1-600) (ibid.:9.59). The Sonota complex falls within the Middle Plains Woodland period. The other complexes fall within the Late Plains Woodland period (late Middle Minnesota Woodland and Late Minnesota Woodland periods). A Besant point and radiocarbon dates support the delineation of cultural complexes (ibid.).

In contrast to the North Gate site and other sites at Camp Grafton North, no native ceramics were recovered from the Borrow site (32RY389) (ibid.:11.6). The absence of ceramics and presence of a Pelican Lake point fragment suggests the single component site dates to the Late Plains Archaic period (1000-500 BC) (ibid.). In general terms, the site is a moderately dense artifact scatter located in rolling uplands, bounded to the west by a borrow area. In 2004, block excavations substantiated assignment of the site to the Late Plains Archaic period (ibid.:11.20). More Pelican Lake points were recovered but still no ceramics. Investigators note, “Our ability to assign the prehistoric occupation at the Borrow site to the Pelican Lake complex likewise confirms the site as a significant archeological resource, and the only known pre-ceramic occupation site within



the bounds of Camp Grafton North” (ibid.:11.20). A full report on the Borrow site mitigation project is forthcoming.

### *Camp Grafton South*

Testing was conducted at the Lake Coe site (32ED85) in 1991 (Stine and Pool 1992). The multi-component site is set on a terrace remnant, roughly 200 m southeast of Lake Coe. The site dates from the Plains Woodland through the Protohistoric period. Diagnostic artifacts recovered during the 1991 testing project include a Besant point base and native ceramics (ibid.:29). Ceramics classified as Devils Lake-Sourisford complex and Cambria phase were found within the Northeastern Plains Village complex component (ibid.:30). Representation of the Northeastern Plains Village Complex at the Lake Coe site is suggested because (1) KRF comprises over half of the lithic debris, (2) there is no evidence of horticulture, and (3) abundance of animal bone (ibid.). Finally, a protohistoric occupation is evinced by the recovery of European glass beads and the decrease in lithic and ceramic artifacts in Level 2 (ibid.:30-31).

Between 2002 and 2004, UND conducted test excavations within the boundaries of Camp Grafton South at the Lake Coe site, 32ED41, and 32ED43 (Toom et al. 2007). The Lake Coe site, previously tested in 1991, was tested again in 2003. The UND investigators identified six site components, including: Middle Plains Woodland--Sonota complex (ca. AD 1-600), Late Middle Minnesota Woodland--Brainerd (ca. AD 460), Late Minnesota Woodland—Kathio/Onamia (ca. AD 870) and Blackduck/Sandy Lake (ca. AD 890), Early-to-Middle Plains Village—Northeastern Plains Village complex (AD 1200-1600) Late Plains Village (AD 1600-1800; possibly Hidatsa), and Early Historic (AD 1800s; possibly Dakota or Yanktonai) (ibid.:7.60). The various ceramics were the main indicators of cultural/temporal affiliation of cultural deposits (ibid.). Investigators propose the site, located in proximity to trees and water, functioned as a field camp or residential base camp during several occupational episodes (ibid.:7.61).

Site 32ED41, a prehistoric field camp, is located on an alluvial fan between two lakes. Investigators have identified five components at the site, including: Early Plains Archaic (ca. 3515 BC), Middle Plains Archaic (ca. 1270 BC), Late Plains Archaic--Pelican Lake complex (ca. 1000-500 BC), Early Plains Woodland (500-1 BC), and Middle Plains Woodland--Sonota complex (AD 1-600) (ibid.:4.7). The Early Plains Archaic and Middle Plains Archaic components were dated by radiocarbon tests, while diagnostic artifacts were recovered from the other three components (ibid.:4.23).

Site 32ED43 is located northwest of 32ED41 in a similar physiographic setting. The small field camp has been tentatively dated to the Middle Plains Woodland period—Sonota complex because of the presence of thick, cord-roughened ceramics (ibid.:6.11). Sites 32ED43, 32ED41, and 32ED94, all located in the vicinity of one another, make up an archeological site complex (ibid.).

## *Pipelines*

Nineteen sites within the Sheyenne River Study Unit were tested in 1997 as necessitated by the proposed Alliance pipeline (Stine et al. 1998a). Of these, investigators recommended four sites as significant and eligible for the NRHP and noted that the remaining 15 sites did not yield significant cultural materials (ibid.:i-ii). Site 32BA106 is a buried cultural material scatter situated west of the Sheyenne River on a low terrace. Diagnostic artifacts include Plains Village side-notched and possible Besant points and Plains Village pottery (ibid.:265). Site 32BA107 is a dense cultural material scatter buried in a fluvial terrace within the Sheyenne River valley. Components at the site have been dated by the presence of Plains Village pottery (AD 950-1650), a Plains Side-Notched point (AD 1000-1780), and three carbon samples (AD 1460; AD 1300; AD 830) (ibid.:283). The amount of flaking debris recovered at 32PI19 suggests it is a lithic workshop located in a sand dune on an upland plain south of Battema Lake (ibid.:65, 69).

The setting of 32WE89 is directly east of the Sheyenne River “on a flat area of valley wall slump” (ibid.:112). The site contains one relatively small stone circle and a sparse artifact assemblage. However, along with chipped stone flaking debris and a Plains Side-Notched point, stained soil was observed below ground surface (ibid.:115).

Data recovery excavations at 32WE89 were conducted in response to the proposed Alliance pipeline in 1999 (Schneider and Johnston 2000). One Plains Village period side-notched projectile point was recovered from excavation at the sole stone circle (ibid.:2). Schneider and Johnston state: “Stratigraphic pollen analyses of sediments from three localities at 32WE89 ... appear to represent valley wall slump dating to approximately AD 1000. Radiocarbon ages from the site place occupation between approximately AD 1205-1290 and AD 1750-1800.”

The field crew continued Phase II testing along the proposed Alliance pipeline in 1998. The 15 sites within the Sheyenne River Study Unit are within Pierce, Barnes, and Ransom counties. Twelve are prehistoric cultural material scatters, two are stone circle sites, and one is a modern rock pile (Stine et al. 1998c:Table 2). Investigators reported that no significant cultural deposits were identified at any of the sites.

### NRHP and NDSHSR

The current list of archeological sites in North Dakota listed in the National Register of Historic Places is available on the National Park Service website. The following internet links are useful (NPS 2008a, b):

General information and links to specific information: <http://www.nps.gov/nr/>  
Query for sites by State (Location = ND): <http://www.nr.nps.gov/>

## Major Excavation and Salvage Projects

Some of the earlier excavations in this study unit are poorly reported or even lack reports. Much of that work focused on the highly visible Woodland burial mounds. For example, avocational archeologist Henry Montgomery excavated dozens of mounds in the early 1900s but virtually nothing is recorded of his discoveries including locations of many sites. Table 12.6 lists manuscripts regarding excavation and salvage projects.

**Table 12.6: Major Excavation Projects in the Sheyenne River Study Unit, 5-Sept-2007.**

Year	First Author	Second Author	Title	Ms #
n.d.	Schneider, F.	P. Treat	Archaeological Excavations at the Sprenger Tipi Ring Site, 32SH205, Sheridan Co., ND: An Archaeological Salvage Project in the Garrison Diversion Unit	51
1940	Strong, W.		From History to Prehistory on the Northern Great Plains	--
1941	Strong, W.		Arikara & Cheyenne Earth Lodge Sites in ND & SD	--
1949	Hewes, G.		Burial Mounds in the Baldhill Dam Area, North Dakota	--
1953	Howard, J.		The Southern Cult on the Northern Plains	--
1971	Wood, W.		Biesterfeldt: A Post-Contact Coalescent Site on the Northeastern Plains	--
1974	Good, K.		An Archaeological Survey of Trail I County Flood Prevention Project #18	--
1976	Larson, T.		Archaeological Investigations in the Proposed Lonetree Reservoir, Garrison Diversion Unit, North Dakota: 1974 Investigations: Pt. II, Sheridan Co., ND	54
1982	Fox, S.		Excavations at the Irvin Nelson Site, 32BE208	3176
1982	Schneider, F.		Sprenger: A Tipi Ring Site in Central ND	2777
1982	Schneider, F.	Treat, P.	Archaeological Investigations at the Sprenger Tipi Ring Site, 32SH205, Sheridan Co., ND	51
1984	Fox, S.		Archaeological Excavations at 32BA415, 32BA428, & 32GG5 on Lake Ashtabula, Barnes & Griggs Counties, ND	3237
1986	Deaver, K.		Archaeological Excavation at Sites 32SH110 & 32WE107, Sheridan & Wells Counties, ND	3947
1987	Snortland-Coles, J.	Good, K.	The Archeological Component of Devils Lake Burial Site (32RY100)	4655
1988	Michlovic, M.	F. Schneider	The Archaeology of the Shea Site (32 CS 101)	4602
1990	Thompson, R.		The Archaeology of the Dahnke-Reinke Site (32CS29), Cass Co., ND	5318
1994	Gregg, M.		Horner-Kane Site (32RY77) Archeological Excavations, Grahams Island State Park, Ramsey Co., ND, 1991 Field Season	5928
1998	Toom, D.	C. Kordecki et al.	Lonetree Wildlife Management Area 1994 Cultural Resources Investigations, Sheridan and Wells Counties, ND	9069
2000	Schneider, E.	J. Johnston	Bison Butchering and Baths on the Sheyenne River: The Archaeology of Site 32WE89, Wells Co., ND	7666
2000	Toom, D.	M. Jackson et al.	Grahams Island State Park 1992 Archeological Excavations at the Horner-Kane Site (32RY77) on Devils Lake, Ramsey Co., ND	7713
2004	Jackson, M.	D. Toom	Bivouac Site (32RY189) 2002 Archeological Block Excavations, Camp Grafton North, Ramsey Co., ND	9012

The Heimdal Mound (32WE401) was excavated in 1930 (Howard 1953:130-133). Howard (1953:137) describes the cultural material as similar to other material from Northern Plains sites and also notes similarities to Southern Cult material.

W.D. Strong (1940:370-376; 1941:157-166) conducted excavations in 1938 at the Biesterfeldt site (32RM1). Biesterfeldt is a fortified protohistoric village that contained about 60 earthlodges (Wood 1971:70). Early references (Hayden 1862; Mooney 1905-1907; Will 1914; Grinnell 1918 and 1923; Bushnell 1922; Swanton 1930) suggest that the Cheyenne occupied the site and that the Sioux, Assiniboine, or Chippewa possibly caused the final abandonment of the village (Wood 1971:54-57). Wood (1971:70) points out the identification of the Biesterfeldt site is "uncertain, but the Cheyenne provide the most economical hypothesis." Wood (1971:70) explains this Post-Contact Coalescent site shows striking contrasts with Woodland groups to the east where the Cheyenne are supposed to have originated.

The Lisbon Mound was excavated by Strong (1940:385). Wood (1955, 1963, and 1971) identifies the Lisbon Mound as affiliated with the Middle Woodland Sonota Complex.

Excavations at 32GG1 (a mound) revealed the disarticulated remains of eight individuals with no associated artifacts (Kivett 1948:8-9). The distribution of the remains within the mound suggested mound construction may have been an accumulative process over a considerable period of time.

The Wray Mound (32RM19) was excavated by Milligan and the contents have been discussed by Hewes (1949:328) and Howard (1953:130). Milligan recovered shell, bone, and horn ornaments, as well as ceramic sherds which exhibit Mississippian influence.

Hewes (1949:322) excavated 32BA8 (Rasmussen). The recovered material was generally described and assessed as being of little archeological value (Hewes 1949:322). In 1987, the Rasmussen site was reassigned to SITS number 32BA101 (NDCRS site form, HPD, SHSND).

Hewes (1949) excavated two mounds at 32BA1 (Baldhill Mounds) in 1948. Both mounds had central burial chambers containing several disarticulated burials capped with oak logs. In addition, some intrusive extended burials were interred in one of the mounds (Hewes 1949:324-327). Plan maps, profiles, and forms from the excavations are included with the NDCRS site form housed in the HPD, SHSND.

References to 32BA1 may be found in several papers. Brief reports of the materials are found in Hewes (1950:9), Roberts (1951:373-374), and Wedel (1953:47-48, 53). Neuman (1967) reported a date of AD 90±150 for one of the mounds. Ossenbergl (1974) analyzed the cranial data from the site, lumped with

that from the Devils Lake area, to study the origins and relationships of Woodland peoples. According to her results, this skeletal group has its closest affinities with material from the Arvilla culture along the Red River, northern Blackduck culture (northern Minnesota-southern Manitoba), the Manitoba phase, and modern Cheyenne and Assiniboine (Ossenberg 1974:35). However, there are problems with her interpretations as she lumps materials and ignores Neuman's (1967) date and assigns the group a date of AD 1200-1700. Neuman (1975) includes the material from 32BA1 in his Sonota Complex which he dates from AD 1-600. He also suggests that these mounds were built by hunters and gatherers whose cultural development took place on the northern Great Plains with close relationships to Besant occupations in Montana, Saskatchewan, and Alberta. He recognizes that this group received some stimulus from Hopewellian groups (Neuman 1975:93). Vehik and Vehik (1976) included the material from 32BA1 in an analysis of Northern Plains Woodland social variation.

In 1974, an exposed burial (32RM201, Lisbon burial) was salvaged from a gravel quarry (Good 1975). The burial consisted of a skeleton of a ca. 40-45 year old woman and an associated tool kit similar to Plains Village sites. In addition, 150 squash seeds were recovered. An uncorrected radiocarbon date from a sample of the squash seeds is AD 805±105. Snortland and Good (1987) suggest this may be the remains of an early horticulturist.

Site 32SH205 was a stone circle site with 81 rings and a rock lined depression. Four of the rings and the depression were excavated using five units. The rings ranged in diameter from 3.5-8.0 m. The recovered pottery showed relationships to Plains Woodland material (Schneider and Treat 1974). A possible date of AD 400-500 is postulated (Schneider 1982). The site was a hunting camp occupied at least twice by groups similar to Besant people further to the west and north. The occupants were involved in a variety of extractive and processing activities.

Extensive excavations were conducted by NDSU at the Irvin Nelson (32BE208) site. One hundred thirty-six 1.5-x-1.5-m units were excavated. Fox (1982) reports two primary prehistoric cultural components, Middle Woodland and Late Woodland. However, as Schneider (1986) noted:

Examination of the report, however, indicates the Middle Woodland component contains artifacts typologically associated with Early, Middle and Late Archaic cultural complexes as well as with Middle Woodland cultural complexes. The radiocarbon dates associated with these materials are 2860±70 BP, 1820±170 BP, and 1160±BP. The Late Woodland component has artifacts typologically associated with Late Woodland and Plains Village cultural complexes and radiocarbon dates of 1340±120 BP and 400±100 BP. Unfortunately, no provenience information is provided in the report so that it is impossible to clearly determine the association of strata, artifacts, and radiocarbon dates.

Toom's (2007) "retro-interpretation" (reanalysis and re-reporting) of the Irvin Nelson site also is at odds with the reported results of NDSU's early archeological investigations. Toom (ibid.) proposes that there are at least eight prehistoric components present at the site, including Plains Village, Minnesota Woodland, Plains Woodland, and Plains Archaic periods.

In 1984, SHSND salvaged an endangered prehistoric human cemetery (32RY100, Devils Lake Burial site). Seven graves containing 30 individuals were excavated (Snortland and Good 1987). A radiocarbon date of AD 810±110 is reported. Snortland and Good (1987) compare the site to 32RM201 and suggest both represent remains of early horticulturalists. The skeletal biology and paleopathologies of the Devils Lake Burial site (32RY100) can be found in Williams (1984).

In 1985, SHSND salvaged an exposed burial at 32BA18. The grave contained the remains of at least two individuals. Forms and notes from the salvage are attached to the site form at the HPD, SHSND.

Site 32WE107 consists of five stone circles. The site was mitigated by excavating two and a quarter rings and a 4 x 4 meter square non-feature area (Deaver 1986). A total of 94.32 m<sup>2</sup> was excavated. A single fall or winter occupation dating to around AD 988 is postulated.

In 1986, the SHSND salvaged a burial (32BA100) that had been exposed in a wall of a gravel pit. A single flexed burial was recovered from a shallow pit. The skeleton was lying in a bed of red ochre (2-5 cm thick). A catlinite atlatl weight was associated with the burial. Dill (NDCRS site form) interpreted the site as dating to the Archaic period.

### *Dahnke-Reinke Site*

Excavations were conducted at the Dahnke-Reinke site (32CS29) from 1985 through 1987 (Thompson 1990). The multi-component site dates as far back as the Middle Plains Woodland, and possibly the Plains Archaic period. It is located south of the confluence of the Sheyenne and Red rivers. The site spans three terraces; the lower two terraces have been cut by the meandering Red River.

Diagnostic artifacts date the upper component at the Dahnke-Reinke site. Sandy Lake complex ceramics, a possible Oneota rim sherd, Late Plains Woodland projectile points, and a blue glass trade bead indicate the occupational level dates from the Late Plains Woodland through historic periods (ibid.:48). The lowest two cultural components date to the Middle Plains Woodland period. It has been speculated that the deepest component may date to the Early Plains Woodland period. Identified projectile points at the site include: Hanna, Besant, Avonlea, and Prairie Side-Notched (ibid.:104-107). Larger quantities of KRF and

lesser amounts of local cherts were recovered from the lower components (ibid.:49). Other nonlocal materials include a shell bead from the Gulf Coast and copper piece from the area of Lake Superior (ibid.:175). An important discovery at the Dahnke-Reinke site is floral remains in hearth features and on ceramic pieces (ibid.:65). Thompson (ibid.:69) suggests, “The evidence of plant utilization at the Dahnke-Reinke site shows that by the Middle Woodland peoples were using the gallery forest resources in the late summer and fall also. This may imply a greater focus on riverine resources, and an increase in the length of time spent at encampments.”

More recently, investigation at the Dahnke-Reinke site has included remote sensing. Specifically, a downhole magnetic susceptibility instrument identified buried paleosols and occupation activity areas within the middle terrace (Dalan and Goodman 2006).

### *Horner-Kane Site*

Excavations undertaken at the Horner-Kane site (32RY77) in 1992 confirm that is a multi-component site complex (Toom 2000:iii). Toom et al. (ibid.) list the six known components at the site as: Early Transitional Sonota complex (ca. AD 100), Early Transitional Blackduck complex (ca. AD 900), Early Sandy Lake complex (ca. AD 1280), Early Northeastern Plains Village complex (ca. AD 1280), Late Sandy Lake complex (ca. AD 1650), and Late Northeastern Plains Village complex (ca. AD 1650). Investigators further suggest that the site served in the capacity of short-term field camps in association with bison hunting and processing ventures (ibid.). The Horner-Kane site is significant for several reasons, not the least of which is that archeological investigations have revealed a correlation between an increase in precipitation in the Devils Lake basin and increase the number of bison. The reader is directed to Toom’s (2000) volume for a comprehensive examination and interpretation of the site.

### *Camp Grafton North*

In 2001 UND conducted evaluative test excavations at the Bivouac site (32RY189) (Jackson and Toom 2002). Subsequently, in 2002, UND undertook block excavations at the site, located within Camp Grafton North (Jackson and Toom 2004). Investigators suggest the multi-component site was a field camp associated with bison hunting and processing activities (ibid.:iii). The site is located north of Devils Lake on a rise in rolling prairie. The central portion of the site has been disturbed by road enhancements resulting from the rising water level of Devils Lake (ibid.:1.1). Additionally, due the shallow deposition of the site and bioturbation, stratigraphic separation of the components was not possible (ibid.:14.4). Therefore, the site was examined using one analytical unit.

“The stone tools from Bivouac are dominated by hunting implements (arrow points), knives and flake tools for cutting meat and other materials, scrapers for working hides, as well as large anvils, hammerstones and

chopping/pounding tools for smashing bone” (ibid. 13.3). Knife River flint accounted for the majority of the lithic assemblage, followed by locally available Swan River chert. Other artifact classes included fire-cracked rock, animal bone, and ceramics. Diagnostic artifacts recovered from the Bivouac site excavations date to three components, including Middle Plains Woodland, late Middle Minnesota Woodland, and protohistoric Late Plains Village periods (ibid.:13.1). Sonota-type ceramics date the Middle Plains Woodland component (ibid.). The Middle Minnesota Woodland component, the principal occupation, was dated by radiocarbon analysis (ca. AD 660), the presence of Brainerd complex ceramics, and Avonlea and Prairie Side-Notched projectile points (ibid.). Investigators state, “It is now known that the late prehistoric Brainerd ceramic complex, centered in the woodlands of north-central Minnesota, had a substantial presence around Devils Lake, based in large part on the Bivouac findings” (ibid.:14.2). Dating of the Late Plains Village period component was accomplished by the recovery of ceramics resembling those found at the Biesterfeldt site (32RM1) (ibid.:13.1).

### *Camp Grafton South*

From 2002 through 2004, test excavations were conducted at nine sites within the boundaries of Camp Grafton South (Jackson et al. 2006). The project area is within the Prairie Pothole Region between the Sheyenne and James rivers. Investigators recommended one site (32ED38) in the uplands setting as archeological significant and eligible for the NRHP. Site 32ED38 is an artifact scatter in a saddle dividing mound site 32ED28 to the northeast and a rise to the southwest (ibid.:8.1). The site contains a single component, dated to the Middle Plains Woodland (AD 1-600) by the presence of a Samantha projectile point (ibid.:8.6). The archeological artifact assemblage also included bifaces, flake tools, cores, ground stone tools, chipped stone flaking debris, fire-cracked rock, and unburned and burned animal bone (ibid.:8.10-8.15). As with the Bivouac site, the majority of lithic raw material recovered from the site was KRF, followed by Swan River chert, and, notably, three obsidian flakes (ibid.:8.11, 8.13). Investigators speculate that the site was a field camp where prehistoric activities included cooking (fire-cracked rock) and animal processing (bone fragments) (ibid.:8.15).

### Other Work

Michlovic and Swenson (1998) offer a clear and concise discussion (and illustrations) of a classification system for ceramics from Northeastern Plains Village sites. The complexity of the Northeastern Plains Village period is recognized by archeologists. The cultural/temporal affiliation resulted, at least in part, from geographic location (between groups in the Missouri River valley to the west and Mississippian groups to the east), and cultural diffusion of ideas and raw materials from those reaches. Indeed the authors’ note, “Ceramics of the Northeastern Plains Village complex are evidently a product of local stylistic



preferences that were strongly influenced by Oneota and/or Cambria and Missouri Valley wares as well” (ibid.:23).

In recent years, Holley et al. (2006) have employed geophysical technologies to investigate archeological sites along the Maple River. Their goals include: (1) more accurately assessing the presence of ditched settlements along the Maple River and (2) developing a settlement model for the Northeastern Plains during the Late Prehistoric period (ibid.:2). An example of this work is the 2005 investigation at the Utke site (32CS4494). Here, investigations included surface reconnaissance, testing, and remote sensing. These techniques showed no signs of a ditched settlement at the site (ibid.:16). Investigators continue to refine their model based on their results.

In contrast to the Utke site, a preliminary report discusses the presence of a ditch at the Sprunk site (32CS4478) as revealed by geophysical data (Michlovic and Holley 2006). A radiocarbon date and ceramics place the Sprunk site within the Shea phase of the Northeastern Plains Village complex (ibid.:1).

A multi-disciplinary approach was used for archeological and paleo-environmental investigations at the Rustad site (32RI775) (Michlovic and Running 2005). The site is situated at the edge of the Sheyenne Delta where the Sheyenne River runs into the Red River valley, at the confluence of several ecotones. The majority of the cultural deposits were buried in alluvial fans (ibid.:ii). Late Paleo-Indian, Early Plains Archaic, and Plains Woodland period components have been identified (ibid.:7). The main component, dating to the Early Plains Archaic, included projectile points identified as Logan Creek-Mummy Cave complex, remnants of a structure, and a significant quantity of bison bone (ibid.:ii). Paleo-environmental research included geoarcheological investigations and grass phytolith and stable carbon isotope analyses (ibid.:7). The results provide information on the mid-Holocene environment. It appears as though the mid-Holocene environment resembled present conditions (ibid.:178). An entire *Plains Anthropologist* issue details multi-year excavations at the site (Michlovic and Running 2005).

The listing of other archeological work within the Sheyenne River Study Unit is presented in Table 12.7.

**Table 12.7: Other Work in the Sheyenne River Study Unit, 5-Sept-2007.**

Year	First Author	Second Author	Title	Ms #
n.d.	Strachan, R.	K. Roetzel	Report on the Archaeological Aerial Survey of Lake Ashtabula, Barnes & Griggs Counties, ND	217
1948	Hewes, G.		Archaeological Work in the Baldhills Area, near Valley City, Barnes Co., ND	4654
1965	Anonymous		Historic Sites Under the Authority of the State Historical Society of ND As Established by The 39 <sup>th</sup> Legislative Assembly	2011
1966	Mallory, O.		An Appraisal of the Archeological Resources of the Garrison Diversion Project, ND	96
1972	McCormack, J.		The History of Fort Totten, 1867-1890, Benson Co., ND	3894
1977	Schneider, F.		Archaeological and Historical Investigations in the Garrison Diversion Unit, ND: Central and Southern Sections	99
1977	Schneider, F.	F. Holland	Preliminary Field Reconnaissance and Literature Search of Cultural Resources in the Burlington Dam Project; Preliminary Cultural Resource Investigation of the Upper Souris River Basin, ND	136
1979	Schweigert, K.		Walsh County Survey	682
1979	Starr, D.	W. Reynolds	Final Report of an Architectural & Historical Survey on Approximately 121,265 Acres in Central ND, Dickey, Sargent, LaMoure, Stutsman, Eddy, Wells & Sheridan Counties	2477
1981	Jonason, R.		Hope Historic Structures Survey, Steele Co., ND	5944
1981	Wolff, J.		Buffalo Historic Structures Survey, Cass Co., ND	5939
1981	Wolff, J.		Casselton Historic Structures Survey, Cass Co., ND	5940
1981	Wolff, J.		Davenport Historic Structures Survey, Cass Co., ND	5941
1982	Snortland, J.		Inventory & Archeological Assessment of the State Historical Society of ND's State Historic Sites	1814
1983	Dennett, Meussig, Ryan Associates		Historic American Buildings Survey Daniel Winter House 32SH10 HABS No. ND-18	3396
1983	Loendorf, L.		Archaeological Site Evaluations For the Proposed Ottertail Transmission Line: Underwood to Harvey, McLean & Sheridan Co., ND	4155
1983	Schweigert, K.		Evaluation of Twenty-Eight Farmsteads in the Lonetree Section, Garrison Diversion Unit, ND, Wells & Sheridan Counties, ND	3840
1985	Vyzralek, F.		Report of an Architectural & Photographic Survey of Churches in Cavalier, Dickey, Cass, Traill, Grand Forks, Nelson, Ramsey, Walsh, & Pembina in Nine Eastern North Dakota Counties	5945
1985	Williams, J.		Skeletal Biology of Site 32RY100:Infracranial Skeleton & Associated Parameters	5067
1988	Mather, D.		Stone Tools of the Dahnke-Reinke Site (32CS29): A Functional Analysis	10042
1988	Michlovic, M.	F. Schneider	The Shea Site and the Process of Plains-Woodland Interaction, Cass Co., ND	4695
1989	Borchert, J.	D. Klinner	Valley City Sewage Treatment Monitoring of 32BA101 (UW)	4874
1990	Banks, K.	T. Del Bene	Monitoring Activities: Road Construction, Site 32RY77 Grahams Island State Park Ramsey Co., ND	5068
1990	Banks, K.		Monitoring Report: Grahams Island Road Development. Ramsey Co. ND	5203
1990	Gnabasik, V.		Reburial of Mandible at Site 32BA405, Lake Ashtabula Reservoir, Barnes Co., ND	5080
1990	Gregg, M.	P. Picha	Des Lacs-Souris Drainage Basin Erosion Control Study Area Cultural Resources Review Part 1: Prehistoric Cultural Resources Overview & Pt. 2: Prehistoric & Historic Archeological Sites on Primary Sample Units and Potential Impacts	5036

Year	First Author	Second Author	Title	Ms #
1991	Karsmizki, K.	D. Martin	Nolan-Devils Lake Branch Line Historical Review of an Abandoned Railroad Section Benson Co., ND	5467
1993	Charles, J.		A Preliminary Investigation into the Accidental Discovery of Human Remains Located on the Devils Lake Sioux Indian Reservation, Benson Co., ND	6086
1993	Good, K.		Barnes Co., Soil Conservation Service Stabilization Project (CAT SITE 38)	6058
1993	Olson, B.		Fort Totten State Historical Site Tunnel Removal Project Monitoring Report Cultural Resources Inventory Benson Co., ND	6215
1993	Penny, D.		Cultural Resource Report, Monitoring of Earth Moving at the Allen Lanbrecht Property, Ransom Co., ND; Corps of Engineers Permit Application No. 199177233	6129
1993	Williams, J.		Unidentified Human Skeletal Remains Recovered from Site 32BE47, Benson Co., ND	6070
1993	Williams, J.		Unidentified Human Skeletal Remains Recovered from Site 32GG96, Griggs Co., ND	6071
1994	Gross, R.		Project Summary Report: Wayne Hager Collection Survey in Pierce Co., ND	6404
1994	Toom, D.	C. Kordecki	Flood Damage Assessment Survey of Twenty-Eight Archeological Sites Along the Cannonball, Heart, James, Maple, Red & Sheyenne Rivers, ND: Final Report	6222
1996	Frison, G.	R. Mainfort	<i>Archeological and Bioarcheological Resources of the Northern Plains</i> . Arkansas Archeological Survey Research Series No. 47. Arkansas Archeological Survey, Fayetteville.	--
1996	Nunnally, P.	M. Frey et al.	Federal Emergency Management Agency HMGP Section 404 Acquisition Historic Resource Mitigation Documentation for the City of Valley City, Barnes Co., ND	7314
1997	Benchley, E.	B. Nansel et al.	Archeology and Bioarcheology of the Northern Woodlands	--
1997	Good, K.		ND Army National Guard Camp Grafton Sewer Pipeline Archeological Site Boundary Determination Project, Ramsey Co., ND	7059
1997	Kinney, W.		The Results of Archeological Monitoring During Construction of an Emergency Dike at Sully's Hill National Game Preserve, Benson Co., ND	6926
1997	Picha, P.	F. Swenson	Investigations at 32ED56 & 32ED57, US Army National Guard Camp Grafton South, Eddy Co., ND	6898
1998	Michlovic, M.	F. Swenson	Northeastern Plains Village Pottery	--
1999	Toom, D.	C. Kordecki	Grahams Island State Park Cultural Resources Overview Study, Benson and Ramsey Counties, ND	7393
2000	Hafermehl, L.		Report to the ND Army National Guard Regarding the Significance of Individuals Associated with Recorded Historic Properties Located at Camp Grafton South, Eddy Co., ND	7780
2000	Vyzralek, F.		Churchs Ferry, Ramsey Co., ND, 1886-2000: An Historical Sketch	7786
2001	Ekstrom, R.		FEMA Volume I of III Survey of Seventeen Historic Properties in the Devils Lake Basin, ND Ramsey & Towner Counties	7993
2001	Ekstrom, R.		Ludwig Swenson Electrical Pioneer of the ND Prairie A Brief Biography, Towner Co.	8108
2001	Ekstrom, R.		The Thorp Farm DeGroat Township, Ramsey Co., ND, A Brief History	8109
2003	Michlovic, M.	G. Running IV	Archaeology and Paleoenvironment of the Rustad Site (32RI775)	8641
2004	Borchert, J.		Report on Removal and Reburial of Human Remains Highway 57 From Highway 281 to Fort Totten, Benson Co., ND	8883
2004	Ollendorf, A.		Field Work (Aug. 16-17) at 32CS4501 & Two Possible Leads	8981
2005	Hufstetler, M.	J. Goff	Historic Bridges in ND 2004 Revision	10128
2005	Jackson, M.		Binford Water Supply Project 2005 Class I Cultural Resources Inventory, Griggs Co., ND	9306

Year	First Author	Second Author	Title	Ms #
2005	McCormick, M.		Camp Grafton Building Inventory, 2004 Ramsey Co., ND	9140
2005	Michlovic, M.	G. Running IV	Archaeology & Paleoenvironment at the Rustad Site (32RI775). <i>Plains Anthropologist</i> Memoir 37, 50(196):1-190.	--
2006	Burns, W.		Cass Co., Bridge Number 09-113-39.1 Photographic & Narrative Documentation of the Structure and an Examination of its Construction, Cass Co., ND	9745
2006	Holley, G.	J. Krutsinger et al.	Investigations at the Utke Site (32CS4494), Cass Co., ND	9808
2006	Michlovic, M.	G. Holley	Archaeology of the Sprunk Site (32CS4478), Preliminary Report	--
2006	Widga, C.		Bison, Bogs, and Big Bluestem: The Subsistence Ecology of Middle Holocene Hunter-Gatherers in the Eastern Great Plains	9968
2007	Hafermehl, L.		Valley City Main Street: Two Retaining Walls and an Historic District, Barnes Co., ND	10149
2007	Toom, D.		Retro-Interpretation of the Irvin Nelson Archeological Site (32BE208) on Devils Lake, Sullys Hill National Game Preserve, Benson County, North Dakota	--
2008	Michlovic, M.	D. Toom	Papers in Northeastern Plains Prehistory	--

### Paleo-Indian Period

The majority of evidence of Paleo-Indian occupation is limited to isolated artifacts in private collections. Folsom, Agate Basin, Hell Gap, and Browns Valley points have been reported from the Sheyenne basin (Haury and Schneider 1986:39; Johnson 1962:161; Schneider 1982). However, recent archeological and paleo-environmental investigations at the Rustad site (32RI775) have uncovered cultural deposits dating as far back as 9,100 years ago (8,500 radiocarbon years) (Michlovic and Running 2005:169).

Paleo-Indian artifacts indicate sites are present in the Sheyenne basin. Paleo-Indian artifact finds should be most frequent in the uplands. Schneider (1982:37-41) suggests the density of Paleo-Indian sites for eastern North Dakota is probably much less than that of western North Dakota.

The lack of identified sites may be attributed to the limited survey work and the depth of buried deposits. Paleo-Indian sites should be found on the surfaces of early Holocene terraces as well as deeply buried within alluvial fans and valley wall footslopes. An example comes from Michlovic and Running (2005:7), "The Rustad site is preserved in early Holocene glaciolacustrine, middle Holocene alluvial (fan), and late Holocene eolian deposits." Strandlines in the Devils Lake area are also likely locations. Floodplain sites dating from this period will probably be well below the water table.

### Paleo-Environmental Modeling

Holocene environmental data for this unit is scant. An important research question is what were the environmental conditions during the Paleo-Indian tradition in the study unit and what resources were available? Any well-dated early Holocene sedimentary contexts encountered should be sampled for pollen to aid in understanding Early Holocene environments. Excavations should

employ techniques that enable pollen, plant microfossil, and other floral and faunal recovery to allow for climatic and environmental reconstruction.

### Cultural Chronology

The presence of Folsom, Hell Gap, Agate Basin, and Browns Valley spearpoints have been observed in private collections (Haury and Schneider 1986; Johnson 1964; Michlovic 1978, 1981). This indicates the Folsom complex (9000-8000 BC), Hell Gap-Agate Basin complex (8500-7500 BC), and Parallel-Oblique Flaked complex (7000-5500 BC) are represented in this study unit. Are other Paleo-Indian complexes also represented in the Sheyenne River Study Unit and to what extent? Which Paleo-Indian complexes are represented by sites within the Sheyenne River Study Unit in comparison with sites outside the Sheyenne River Study Unit? Archeologists should work with artifact collectors to identify types of Paleo points collected and record the sites.

### Settlement Behavior

The Paleo-Indian settlement pattern in the Sheyenne River Study Unit is unknown. An inter-disciplinary team of geomorphologists, geologists, and archeologists could identify early Holocene landform evolution and human land use patterns. Excavation strategies should be geared toward determining settlement type. What is the range of functional variability that should be expected? What was the most favorable setting for residential base settlements in early Holocene times? What forms of natural or artificial structures were used for shelter? Tipis were suggested to be in use during the Lusk component at the Hell Gap site (Irwin-Williams et al. 1973:45) but is there evidence of other types of features in the Sheyenne River Study Unit and elsewhere?

### Native Subsistence Practices

Big game kill and butchering sites should be expected in former playa lake settings in areas receiving an accumulation of sediments during the mid-Holocene. In the James River Study Unit in Stutsman County, a mammoth was found in a playa setting (Smorada 1969). The estimated date of the site is ca. 10,000 BC. This indicates Pleistocene megafauna were present in the eastern part of North Dakota in Paleo-Indian times.

What floral and faunal resources were available and how did the availability vary through the Paleo-Indian period? Were there regional differences in Paleo-Indian subsistence practices within the Northern Plains at different times during the Early Holocene as the result of small-scale environmental changes? Flotation recovery procedures should be applied to all sediments excavated from Paleo-Indian sites. Holocene megafauna bone deposits should be tested with an interdisciplinary research team.

How does their skeletal biology, relative health and nutrition, paleopathologies, and demographics compare with Paleo-Indian peoples in other ecological zones/contexts and with more recent groups?

### Technologies

The only reported diagnostic artifacts attributable to the Paleo-Indian period are points. Future research should be addressed at filling gaps concerning technological systems of these early hunter and gatherers including production and maintenance of lanceolate points, bone, antler, ivory, and shell technologies. Was their technology similar to other Paleo-Indian peoples and how do they compare to Archaic technologies? Were people during the Paleo-Indian period involved in the same kind of raw materials procurement system as later peoples? What were Paleo-Indian mortuary practices?

### Artifact Styles

Folsom, Hell Gap, Agate Basin, and Browns Valley points have been surface collected but there have been no intact deposits reported to date. How do the Paleo-Indian point type styles compare to those in other parts of North Dakota? What other artifacts are represented and how do the styles compare to surrounding areas?

### Regional Interaction

What evidence of regional interaction is represented? How does this compare with other study units? What is the range of lithic raw material types likely to occur here in the Paleo-Indian components? Are there other indicators for regional interaction besides patterns of lithic raw material use and artifact style that can be identified in the archeological record for the Paleo-Indian period?

### Historic preservation Goals, Priorities, and Strategies

Because of the lack of information about Paleo-Indian tradition in the Sheyenne River valley, any property with potential to yield information about this historic context would be eligible for nomination to the National Register of Historic Places, regardless of integrity.

A few historic preservation strategies that have been identified are listed below.

1. Locate evidence of Paleo-Indian occupation in the study unit by examining privately owned artifact collections in the area. Document collections and record sites.

2. Consult a geomorphologist to identify areas where early Holocene outcrops are exposed and conduct intensive archeological inventories of those areas. Correlations of sites and landforms will provide useful information for future management.
3. Since little is known about the region during the Terminal Pleistocene and Early Holocene, testing/excavation should be conducted to the extent necessary in determining settlement type using an interdisciplinary research team. Methods utilized should enable recovery of floral and faunal remains as well as artifacts. Field strategies should include techniques that will generate information about climate and vegetation.

### Plains Archaic Period

Early, Middle, and Late Plains Archaic periods have been identified for the study unit. The periods are presently differentiated on the basis of variations in chipped stone tools. During the mid- and late Holocene, essentially modern resources were exploited.

Although a number of sites have been tested or excavated in the Sheyenne River Study Unit, relatively few have produced diagnostic or datable samples. In addition, the quality of some of the reports has prevented use of the data because artifacts from multiple components have been combined and/or interpretations are not necessarily supported by the data presented. For example, along Devils Lake, excavations at the Irvin Nelson site (32BE208) recovered Early Archaic Oxbow complex artifacts, Middle Archaic McKean complex artifacts, Late Archaic Pelican Lake artifacts, and Middle Woodland component artifacts. Unfortunately, the site is described as having multiple components (minimum of three, perhaps four) and separation of components is not possible from information supplied in the report (S. Fox 1982). Toom's (2007:iii) reanalysis, including the creation of one general analytical unit, of the Irvin Nelson site suggests there are at least eight cultural components represented.

### Paleo-Environmental Modeling

Investigations at the Rustad site have revealed information on mid-Holocene conditions in the Northeastern Plains. Michlovic and Running (2005:178) suggest environmental conditions today are similar to those during the mid-Holocene in the area of the Sheyenne Delta. Alluvial fan deposits at the Rustad site yielded the most cultural material (ibid.:ii). How deep is the mid-Holocene alluvial fill on the various landforms? What was the nature of bottomland habitats throughout the Archaic periods? Environmental reconstruction of Holocene conditions in valley bottomlands, alluvial/colluvial fans, and glaciated plains (pond settings) should be undertaken. During the pre- and post-Altithermal, is there a difference in Archaic adaptation lifeways?

## Cultural Chronology

Early Archaic Oxbow complex, Middle Archaic McKean complex, and Late Archaic Pelican Lake complex artifacts have been recovered from the Irvin Nelson site (32BE208) (Toom 2007:6.1).

The Old Copper complex is represented in the Sheyenne River Study Unit during the Archaic based on a copper point in the SHSND collections. This socketed copper point (Accession #11683 at SHSND) was found by a private collector near McHenry in Foster County.

Excavations at 32BA428, along the middle portion of the Sheyenne basin, resulted in the recovery of two Late Archaic Pelican Lake points along the shores of Lake Ashtabula (S. Fox 1984:63-64; Schneider and Haury 1986:40). Pelican Lake-type points were recovered during test excavations at the Borrow site (32RY389), on the north side of Devils Lake (Jackson et al. 2005:11.6). At 32RY77 a Late Plains Archaic Pelican Lake component is present (Picha and Gregg 1991).

Unspecified Archaic components are reported from tested/excavated sites at the Dahnke-Reinke site (32CS29) (Thompson 1990), 32BE419 (Schneider 1983 & 1988), 32RY77 (Floodman 1987; Toom 2000), and 32BA100 (Dill n.d.). Several sites with Archaic components have been recorded during surveys (i.e., Haury and Schneider 1986).

Did the Archaic tradition evolve out of the Paleo-Indian tradition or did Archaic peoples migrate into the area? How does the Archaic tradition relate to the Plains Woodland tradition? How did occupational intensity vary during the Archaic period?

## Settlement Behavior

What were the Archaic settlement patterns in the Sheyenne River valley; was the valley occupied only temporarily as part of a seasonal round? What types of structures were constructed and occupied by Sheyenne River Archaic peoples? Michlovic and Running (2005:80) report remains of an Early Plains Archaic structure at the Rustad site. All test and salvage excavation projects should attempt to identify the functional settlement types represented by remains from sampled components. Where should Archaic base camp deposits be anticipated, and what types of remains evince base camp activities? How can Archaic mortuary sites be distinguished from later and earlier burial sites? What were Archaic mortuary practices? Were Sheyenne River Archaic peoples physically different from Sheyenne River Woodland peoples?



Identify and evaluate buried Archaic sites in the bottomlands along the Sheyenne River in order to increase our understanding of settlement variation. Attempts need to be made in correlating Archaic functional site types with landforms in order to begin modeling settlement behavior.

### Native Subsistence Practices

Investigations at the Rustad site suggest that Early Plains Archaic peoples primarily subsisted on bison but smaller animals likely were exploited (ibid.:125). What were the subsistence strategies of Archaic peoples; what resources were exploited, what was available, and did it vary from early to late periods? Were there actually significant differences between Middle and Late Archaic subsistence practices? Systematic use of fine-screen recovery techniques will be necessary to document changes in Plains Archaic diet and subsistence. Standard flotation sampling of feature and nonfeature matrix during excavation should be practiced.

### Technologies

How do Archaic technologies compare to earlier and later technologies? Stone, bone, shell, fiber, and other technologies can only be analyzed when discrete Archaic samples are recovered. What technologies were applied to build structures through the different Archaic periods and complexes? Structural remains are most likely to be best preserved in deeply buried alluvial and colluvial depositional contexts.

### Artifact Styles

Late Archaic sites are difficult to distinguish from Early or Middle Woodland sites because of similarities in assemblages. What traits can be used to distinguish between Archaic and Woodland corner-notched point styles or Early and Late Archaic side-notched dartpoints (e.g., Oxbow and Yonkee)? Are there diagnostic attributes of core or flake morphology which can be used to identify particular Archaic periods or complexes in lieu of diagnostic points? Definitions should be formulated on the basis of large samples from contexts with multiple unproblematic radiocarbon dates.

### Regional Interaction

In other study units there is evidence of less interaction occurring during the Archaic period as compared to the Paleo-Indian and Woodland periods. Is this also the case of peoples living in the Sheyenne River Study Unit? Based on nonlocal material source areas, what is the evidence for changes in directionality of interaction through the Archaic periods? Sourcing of materials should be undertaken when samples (e.g., obsidian, copper, etc) are recovered from discrete components of known age.

## Historic Preservation Goals, Priorities, and Strategies

Although isolated Archaic projectile points are relatively common, only recently have buried occupation sites been identified. When testing or excavations of multiple component sites are conducted, careful attention must be given to separation of artifacts, natural strata, and archeological samples by components. Any property with the potential to yield data concerning this tradition would be eligible for nomination, given sufficient integrity.

Thus far, property and feature types identified in the study area include isolated finds of projectile points, cultural material scatters, and a possible burial location. Anticipated feature types based upon inventories from adjacent study areas include hearths, jump sites, cairns, rock alignments, stone circles, and pits. Functional site types such as field camps, residential bases, locations, stations, caches, and ceremonial are likely to be present.

Below is a list of a few historic preservation priorities/strategies.

1. Consult a geomorphologist to identify land surfaces which date to the Archaic period throughout the study unit. Paleoclimatic reconstruction and geomorphological studies of mid-Holocene contexts should be central to investigations of Archaic cultural deposits.
2. In order to locate sites in the river bottoms, conduct deep testing to locate buried paleosols of Archaic age. Identification of Early Plains Archaic components in the study unit is a top priority. Establish cultural chronology based on chronometrically dated components. Single component deposits need to be identified and sampled to learn more about subsistence, technologies, and artifact styles.
3. Conduct intensive inventories of uplands where Archaic surfaces are exposed.
4. Document private collections and locate additional Archaic sites based upon site leads from private collectors. Complete NDCRS site forms for all identified properties.

### Plains Woodland Period

The first evidence for an Early Plains Woodland occupation in the state was documented at the Naze site in the James River valley (Gregg 1987). A burned structure, dating to 550-410 BC, was uncovered 75-80 cm below ground surface (Gregg 1987). Several other sites along the James River may also have Early Woodland components (Gregg et al. 1987). An Early Plains Woodland site has been reported in the Sheyenne River Study Unit. The Dahnke-Reinke site (32CS29) has a postulated Early Woodland component (Thompson 1990). However, the report is lacking in sufficient description of the stratigraphic

relationships of both natural and cultural deposits and analysis of the relationship of cultural artifacts of these deposits to allow for such an interpretation. Diagnostic artifacts recovered from the Lake Coe site (32ED85) include a Besant point base and native ceramics, dating one of the components at the site to the Early Plains Woodland period (Stine and Pool 1992:29; Toom et al. 2007).

Hewes (1949) excavated two mounds at 32BA1. Multiple human burials were found in central log-covered burial pits in both mounds. Among the artifacts associated with these mounds were Besant-Sonota projectile points (Hewes 1949). A radiocarbon date of AD 90±150 has been reported (Neuman 1967). Neuman (1967) suggests a Middle Plains Woodland Sonota complex cultural affiliation. The Rasmussen site (32BA101) is postulated as having a Middle Plains Woodland component (Hewes 1949). The Dahnke-Reinke site (32CS29) is also reported to have a Middle Plains Woodland component (Thompson 1990). A Sonota cultural affiliation is suggested for 32CS29. Ceramics associated with the Sonota complex also were recovered from the Bivouac site (Jackson and Toom 2004:13.1) and the North Gate site (Jackson et al. 2005:9.59). Site 32ED38, a single component site, was dated to the Middle Plains Woodland period with the recovery of a Samantha projectile point (Jackson et al. 2006:8.6).

Along the shore of Lake Ashtabula, 32BA414 has been identified as a Late Woodland component dating around AD 900-1350 (Kuehn and Gregg 1984). This determination is based on a small ceramic sample and a single side-notched arrowpoint. However, as Kuehn and Gregg (1984) also state a Besant/Sonota affiliation is also possible.

At the Sprenger site (32SH205) several stone circles features are present. The site is postulated as dating around AD 400-500. The site apparently represents a Plains Woodland hunting camp where several extractive and processing activities took place (Schneider and Treat 1974).

In 1991, Gregg (1994:iii) identified three components at the Horner-Kane site (32RY77). The deposits date to the Middle Plains Woodland (100 BC-AD 600), early Fur Trade (AD 1600-1700), and historic periods. Later, Toom (2000:iii) identified six known components at the Horner-Kane site, including: Early Transitional Sonota complex (ca. AD 100), Early Transitional Blackduck complex (ca. AD 900), Early Sandy Lake complex (ca. AD 1280), Early Northeastern Plains Village complex (ca. AD 1280), Late Sandy Lake complex (ca. AD 1650), and Late Northeastern Plains Village complex (ca. AD 1650).

The Dahnke-Reinke site (32CS29) and 32CS30 are reported to have Late Woodland components. Sandy Lake cultural affiliations have been suggested for these sites (Gregg et al. 1991; Michlovic 1987; Thompson 1990). At 32CS42 a Blackduck cultural affiliation has been postulated (CRM 1988; Floodman 1987). Unspecified Late Plains Woodland components are reported from 32CS44 (CRM 1988; Floodman 1987) and 32BE419 (Schneider 1983, 1988).

Several undesignated Woodland sites have been recorded. Site 32SH8 is a Plains Woodland campsite (Mallory 1966:44-45). A stone circle and cairn site (32SH203) is postulated to be Plains Woodland in age (Mallory 1966:44-45). Site 32RM101 is a linear earthen mound interpreted as a Woodland mortuary site (Chomko and Wood 1973). On the shore of Lake Ashtabula, 32BA418 is a bison processing site most likely used by Woodland period peoples, although no culturally diagnostic tools or radiocarbon dates were obtained (R. Fox 1982). Additional testing of sites along Lake Ashtabula includes 32BA415 and 32GG5 (S. Fox 1984). The sites were reported as undesignated Woodland occupations (S. Fox 1984), although Haury and Schneider (1986:42) suggest a Plains Village component may be present at 32BA415.

### Paleo-Environmental Modeling

During the Early and Middle Plains Woodland periods, coinciding with the later half of Sub-Atlantic climatic episode, conditions are posited to have been more mesic than today. Population increases and cultural florescence are suspected to have accompanied this climatic amelioration. Cultural deposits associated with well-developed paleosols in alluvial and colluvial settings along the Sheyenne River and its tributaries need to be documented and investigated to further test this proposition.

During the Scandic climatic episode (AD 400-750) intervening between Middle Plains Woodland and Late Plains Woodland/incipient Plains Village climaxes, climatic conditions are hypothesized to have deteriorated for a time with warm and dry weather prevailing during the Middle to Late Plains Woodland transition. Following this, precipitation is hypothesized to have increased to another peak of extended duration during the Neo-Atlantic (ca. AD 850-1250). The return of mesic conditions is posited to have coincided with cultural florescence in the region marked by the Late Plains Woodland-Formative Village transition.

What were the environmental conditions during the Woodland period in the Sheyenne River Study Unit and what resources were available? Do Early and Middle Plains Woodland cultural deposits occur within buried soil horizons in the bottomlands of the Sheyenne River valley? Holocene geomorphic sequences need to be identified for the main valley of the Sheyenne River and its tributaries.

### Cultural Chronology

Early Plains Woodland components are not common in the Northern Plains. An Early Plains Woodland component is present at 32ED85 (Stine and Pool 1992:29; Toom et al. 2007) in the Sheyenne River Study Unit. They have been identified in the James River valley (Naze site), the Sheyenne River valley (Dahnke-Reinke site), and also tentatively along the lower Red River, north of Winnipeg. It is likely that some identified Middle Plains Woodland or Late Plains Archaic components may in fact be Early Plains Woodland.

Middle Plains Woodland sites have also been identified during survey and/or testing/excavation. The North Gate site (32RY387), the Bivouac site (32RY189), the Horner-Kane site (32RY77), and 32ED38 contain Middle Plains Woodland components identified by diagnostic artifacts (Jackson and Toom 2002, 2004; Jackson et al. 2005, 2006; Toom 2000). To the west ceramics similar to Laurel have been identified in the James River valley (Schneider 1982). Terminal Middle Woodland St. Croix pottery has been recognized in the James River Study Unit at 32SN22 (Snortland-Coles 1985). Both St. Croix and Arvilla complex have been identified to the east in the Northern and Southern Red River study units (Anfinson 1990:220; Gibbon and Caine 1980; Johnson 1973).

A number of sites with Late Plains Woodland components have been identified in the study unit. Of those identifiable to a complex, most are assigned to a Sandy Lake cultural affiliation and some to Blackduck. The same is true for the study units to the east (Southern Red River and Northern Red River study units and east-central Minnesota [Gibbon and Caine 1980:62]) and west (James River Study Unit). Does the increase in the number of sites assigned to the Late Woodland period indicate an increase in population density and/or a result of earlier sites being deeply buried? Woodland tradition land surfaces need to be identified throughout the study area.

Did the Woodland tradition evolve out of the Archaic tradition or did Woodland peoples migrate into the area? How does the Woodland tradition relate to the Archaic tradition? Were Woodland peoples ancestral to Archaic peoples or did the two traditions coexist for a time and represent two or more different cultures? Were Sheyenne River Woodland peoples physically different from Sheyenne River Archaic and Plains Village peoples?

### Settlement Behavior

Functional site types identified for this study unit are mortuary sites, field camps, residential bases, and processing sites. Most of the mortuary sites are located in the uplands associated with mounds and are assigned to the Sonota complex. Based on the work at 32SN22, mounds are now recognized as repeatedly being used from the Middle Plains Woodland to the Plains Village period (Snortland-Coles 1985). Mound sites and burials are also found along glacial beach ridges. The density of mound sites appears to decrease as one moves to the upper Sheyenne River (Haury and Schneider 1986). Numerous burial mounds are reported in the Devils Lake Basin. In turn, numerous habitation sites should also be expected along former shorelines of the principal lakes in the basin (Schneider 1986).

The function, age, and cultural association of linear mounds are poorly understood. Pedological and micro-stratigraphic studies might aid in determining the relative ages of several types of linear mounds. This may be possible particularly at sites where both types of studies occur and/or are joined together.

Excavations at the Naze site in the James River Study Unit documented the first solid evidence for an Early Plains Woodland occupation in the state (Gregg 1987a). There, a burned structure dating to the 550-410 BC time period was unearthed. Similar houses should be expected to eventually be discovered in the Sheyenne River Study Unit.

The Sonota complex has been identified in residential settlements and burial mounds (Hewes 1949). The range of Sonota settlement types needs to be identified. The same is true for Early and Late Plains Woodland groups.

### Native Subsistence Practices

Plant remains, including *Chenopodium* and *Scirpus*, were recovered from the Woodland components at 32CS29. Thompson (1991:68) suggests plants were foraged since there was no evidence of domesticated plant utilization at the Dahnke-Reinke site. Squash seeds from the Lisbon site (32RM201) indicate that Late Woodland people were utilizing garden products (Snortland and Good 1987).

At the Naze site in the James River Study Unit, charred grape, chenopod, and possible marsh elder seeds were found together inside the Early Plains Woodland house. They are interpreted as food remains with the marsh elder possibly indicating the indigenous seedy plants were tended or encouraged (incipient gardening). Middle Plains Woodland inhabitants of the Naze site were exploiting native wild resources, such as acorns, plums, and chokecherries (Gregg 1987).

Archeologically, there is no concrete evidence for domestication, processing, or consumption of plant foods at the Bivouac site where a Middle Plains Woodland component is present (Jackson and Toom 2004:13.2). The recovered archeological materials point to a heavy reliance on bison hunting, processing, and consumption. At the Bivouac site elk and small mammals were exploited to a lesser degree but, interestingly, there is no indication that fish or shellfish were consumed (Jackson and Toom 2004:ibid.).

What were the subsistence strategies of Woodland peoples; what resources were exploited? What evidence is there for the intensified use of indigenous seedy plants and grasses for food during the Plains Woodland period? The full role of plant resources in the diet of these peoples remains to be demonstrated. Fine-screen recovery to collect botanical remains provides direct evidence of Middle Plains Woodland subsistence in the study unit. Future analyses of organic residues recovered from ceramics will enhance our understanding of Plains Woodland dietary patterns. Were there significant differences in the roles of plant/vegetal foods in the diets of Sonota groups in the Sheyenne River Study Unit compared with the diet of Sonota groups in other study units?

## Technologies

The earliest ceramic vessel production and use presently known in the Northern Plains occurred during the Early Plains Woodland period. The ceramic vessels found at Naze are technologically and stylistically akin to Midwestern “Black Sand Tradition” ceramics (Gregg 1987). How do the methods of constructing vessels change through time?

Very small, arrowpoint sized corner-notched dart points seem to characterize Late Plains Archaic and Early Plains Woodland components dating to the second half of the first millennium BC elsewhere in the Northern Plains. Do they occur in the Sheyenne River Study Unit?

The occurrence of substantial quantities of fire-cracked rocks at a number of investigated Sonota sites suggests a long-term reliance of hot rocks for heat transfer. Stone boiling and baking with hot rocks were associated with food production at temporary camps and base camps in other study units. What evidence is there of this in the Sheyenne River Study Unit?

How do Woodland technologies compare to earlier and later technologies? What types of structures were constructed and occupied? Was the Naze house form used by Middle Woodland and Late Woodland people? Does it represent an early stage in the evolutionary development of the classic Plains earthlodge?

## Artifact Styles

As noted in the Major Excavation Projects section above, 1992 investigations of the Horner-Kane site have revealed the presence of six archeological components. The earliest component is Early Transitional Sonota dating to the early Middle Plains Woodland period. Artifacts recovered in this component include Scalp Punctated ceramic ware and Pelican Lake and Besant projectile points (Toom 2000:7.7). Moreover, a radiocarbon date confirms occupation of the site around AD 100 (ibid.).

Ceramics recovered at the Bivouac site (32RY189) mostly comprise Brainerd ware which corresponds to the late Middle Minnesota Woodland in north-central Minnesota and the Late Plains Woodland in eastern North Dakota (Jackson and Toom 2004:7.1). These sherds generally are net-impressed and thin-walled. Investigators obtained a radiocarbon date of ca. AD 660 from a Brainerd ware piece (ibid.:7.19). To a much lesser extent, Middle Plains Woodland ceramics, exhibiting vertically cord-roughened surfaces and thicker walls, were also recovered at the Bivouac site (ibid.:7.1).

Late Plains Woodland sites are difficult to distinguish from Plains Village sites because both ceramics and lithic assemblages are similar and time periods overlap. What are distinguishing variables? Do distinctive styles of exotic stone, shell, and metal artifacts occur in Sonota cultural deposits in the study area?

## Regional Interaction

Native copper and a marginella bead were recovered at the Dahnke-Reinke site (32CS29) from the Sonota component (Thompson 1990). Columella beads have been recovered from a number of mound sites assigned to the Sonota complex. A copper bead was recovered from Burial Mound B at the Baldhill site (32BA1) (Neuman 1975:92).

What nonlocal materials are found in Woodland components of different ages in the Sheyenne River Study Unit? A comprehensive list should be compiled of the nonlocal materials and exotic artifacts that have been recovered from dated Woodland contexts in the area.

During the Middle Plains Woodland period (100 BC-AD 600) there is evidence of long-distance regional interaction and exchange on the Northern Plains. Three obsidian flakes, along with KRF and Swan River chert debitage, were recovered from 32ED38, a Middle Plains Woodland site (Jackson et al. 2006:8.11, 8.13). Picha (1987) discusses evidence of the interregional Hopewell Interaction Sphere along the James River valley. The paucity of Hopewell Interaction Sphere items in nonmortuary versus mortuary contexts is postulated as being related to excavation and recovery methods. Without fine screen recovery, many items and even classes of artifacts go undetected (Picha 1987:6).

## Historic Preservation Goals, Priorities, and Strategies

Limited testing indicates sites are typically buried. Recovery of artifact and archeological samples that provide a basic characterization of the period is necessary along with chronometric dates. This enables comparisons with other areas and regions.

Property types identified in this study unit are cultural material scatters, earthworks, graves, hearths, mounds, cairns, stone circles, and pits. Functional site types identified for this study unit at present include mortuary, field camps, residential bases, and processing sites. Any property with the potential to yield data concerning this tradition would be eligible for nomination, given sufficient integrity. Settlement behavior and other research topics will not be able to be addressed until more intensive work is conducted.

A number of priorities concerning this study unit for the Woodland period have been identified. These are listed below.

1. Consult a geomorphologist to identify land surfaces which date to the Woodland period throughout the study area.
2. Woodland sites located on the floodplain are deeply buried. In order to locate sites in the river bottoms, conduct deep testing to find buried Woodland paleosols. There is a need to recover samples



of Woodland deposits through controlled excavation in order to better identify the make-up of such components. Rigorous and standardized techniques are needed.

3. Document private collections and locate additional Woodland sites based upon site leads from private collectors. Complete NDCRS site forms for all identified properties.
4. Map (using precision equipment) all existing earthworks that have not previously been mapped within the last 10-20 years.
5. Sample survey of the Drift Prairie Freshwater Lakes.
6. Encourage inter-site and inter-regional comparative analyses of ceramic attribute data that will result in stronger ware and type definitions for Woodland ceramics, along with better information regarding geographic distributions.

### Plains Village Period

Several Plains Village sites have been recorded in the Devils Lake area and along the Sheyenne River and its tributaries. The origin of Plains Village has been a topic of much discussion. Early Plains Village origins in the Middle Missouri subarea have been postulated as a local development among indigenous peoples by some researchers and a migration of peoples from the east by others (Toom 1992:137). Lehmer (1971) and Wood (1967) suggest Plains Villagers entered North Dakota from the east. Toom (1992) convincingly presents a case for the migration of peoples from the east due to three interrelated factors (eastern demographic pressures, improved climate, and benefits of economic diversification). Others (Alex 1981; Ahler 1984; Fawcett 1983; Gregg and Picha 1991; Tiffany 1983) postulate that some Plains Village groups were originally Woodland people who adopted a horticultural lifeway.

Suggested places of origins for the Awaxawi and Hidatsa-proper subgroups include eastern North Dakota, such as the Devils Lake locality. Alternatively, Ahler (1991:47-49) hypothesizes a more eastern origin in central and southern Wisconsin with sites in eastern North Dakota such as Sharbono and Hintz being way-stations for the Hidatsa subgroups migrating west. Part of the problem with investigating the origins of the tradition has been that most archeological investigations of the Plains Village period have been concentrated in the Missouri Trench while relatively little work has been done in the eastern part of the state.

Excavations at 32BA415 resulted in the recovery of a sample of cord impressed pottery (S. Fox 1984). Fox reported this site as having a Woodland component. However, as Haury and Schneider (1986:44) have pointed out “the description and the illustrations of these sherds are indicative of the Plains

Village rather than Woodland origin.” At 32BA3 a late prehistoric component is reported (Gnabasik and Gregg 1984). The pottery was reportedly similar to ceramics recovered at the Quast site (32LM234).

Excavations were conducted at the Wray Mound near Lisbon. Spirally-grooved pottery was recovered and is characteristic of the Devils Lake-Sourisford burial complex of eastern North Dakota and Manitoba (Syms 1979). Devils Lake-Sourisford was originally thought to represent a Late Woodland manifestation (Syms 1979). However, Devils Lake-Sourisford has been recognized as representing a Plains Village tradition burial mode (Swenson and Gregg 1988). Plains Villagers used mounds as one place of interment but these graves were often intrusive features into Woodland mounds. Other sites with Devils Lake-Sourisford components in the study area include 32RY3, 32RYx6, 32WE401 (Heimdahl), and 32WEx63.

University of North Dakota investigators identified six site components at the Lake Coe site (32ED85), including: Middle Plains Woodland--Sonota complex (ca. AD 1-600), Late Middle Minnesota Woodland--Brainerd (ca. AD 460), Late Minnesota Woodland—Kathio/Onamia (ca. AD 870) and Blackduck/Sandy Lake (ca. AD 890), Early-to-Middle Plains Village—Northeastern Plains Village complex (AD 1200-1600), Late Plains Village (AD 1600-1800; possibly Hidatsa), and Early Historic (AD 1800s; possibly Dakota or Yanktonai) (Toom et al. 2007:7.60). The various ceramics were the main indicators of cultural/temporal affiliation of the cultural deposits (ibid.).

The University of North Dakota salvaged a burial at 32RM201. A female was buried with a skin bag containing bone tools, stone tools, and squash seeds dating to  $1145 \pm 105$  BP (UGa-961). A Plains Village affiliation is suggested based on the radiocarbon date and artifacts from this burial (Snortland and Good 1987).

The Schultz site (32RM215) was also excavated. Numerous authors including Bowers (1948), Wood (1963), Dahlberg (1977), and Syms (1979) have discussed this site. Information on site excavations by Milligan and Hecker is missing. Bowers (1948) and Wheeler (1963) suggest this site is associated with the Stutsman focus and the Painted Woods focus based on ceramics. This “implies an association with the emergence of the Hidatsa as well as the emergence of the Plains Village tradition in the archeological record of eastern North Dakota” (Haury and Schneider 1986).

The Shea site (32CS101) is a small fortified village along the banks of the Maple River with radiocarbon dates clustering around AD 1448 (Michlovic and Schneider 1993:124). There was also evidence for corn horticulture based on cultigens and scapula hoes recovered at the site. Fire and refuse pits and a palisade interior to the fortification ditch were uncovered during excavation. Ceramics include Sandy Lake ware and Red River ware. Points were primarily small triangular unnotched specimens (Michlovic and Schneider 1988). If Sandy Lake pottery is affiliated with the prehistoric Dakota (Anfinson 1979), this site

provides the first evidence of the Dakota living in fortified villages during this time period (Michlovic and Schneider 1988:38). Other fortified villages recorded in this study unit include 32RM225 (Lucas), 32RM401, 32RM402, 32RM225, 32RM1 (Biesterfeldt), and 32RM77 (Zeck).

Holley et al. (2006) have employed geophysical technologies to investigate archeological sites along the Maple River. At the Utke site (32CS4494) investigations included remote sensing. This technique showed no signs of a ditched settlement at the site (*ibid.*:16). Unlike the Utke site, a preliminary report discusses a ditch at the Sprunk site (32CS4478) as revealed by geophysical data (Michlovic and Holley 2006). A radiocarbon date and ceramics place the Sprunk site within the Shea phase of the Northeastern Plains Village complex (*ibid.*:1).

At the Irvin Nelson site (32BE208), excavations recovered Plains Village ceramics associated with a radiocarbon date of AD 1550 (Fox 1982). Toom (2007:iii) proposes that there are at least eight prehistoric components present at the Irvin Nelson site, including one dating to the Plains Village period. Plains Village ceramics were also recovered at 32BE419. Schneider (1983:7-20) suggests 32BE419 “may be associated with a tradition which maintains that a group of Hidatsa once lived on Graham’s Island” (Schneider 1983:7-20). Excavations at the Horner-Kane site (32RY77) revealed a multi-component site complex that includes the Early Northeastern Plains Village complex (ca. AD 1280), Late Sandy Lake complex (ca. AD 1650), and Late Northeastern Plains Village complex (ca. AD 1650) (Gregg 1994; Toom 2000:iii).

Biesterfeldt (32RM1) is a Post-Contact Coalescent village postulated to have been occupied by the Cheyenne around AD 1750. Ethnohistoric accounts and archeological evidence indicate the Cheyenne occupation (Wood 1971). Cheyenne peoples may have entered the Sheyenne valley by AD 1600 (Strong 1941). In contrast, Dalan et al. (2007:18) propose that the Cheyenne did not travel from the east to settle the site. Rather, the authors (*ibid.*:19) state:

The preliminary evaluation, which serves as a working hypothesis, leads us to conclude that there was likely a trend towards increased Middle Missouri River influence in the Sheyenne valley and a corresponding decline in southeastern and eastern influences.... Presumably, the vacuum created with the decline in Oneota-related designs is filled with bona-fide examples of Coalescent tradition wares ... we argue that Biesterfeldt does have antecedents in the region.

Diagnostic artifacts recovered from the Bivouac site excavations date three components, including the protohistoric Late Plains Village period (Jackson and Toom 2004:13.1). Dating the Late Plains Village period component resulted from the recovery of ceramics resembling those found at the Biesterfeldt site (32RM1) (*ibid.*).

A Post-Contact Coalescent bison kill site (32SH7) has been recorded and test excavated (Larson 1976). The limited test excavations revealed processing areas away from the kill area as well as the kill location.

### Paleo-Environmental Modeling

What were the environmental conditions during the Plains Village period in the Sheyenne River Study Unit and what resources were available? During the Neo-Atlantic episode, climatic conditions are suggested to have improved which corresponds with the spread of Plains Village horticulture. Did the climate change have a significant impact in the adoption of corn agriculture by Plains Villagers in the study unit?

### Cultural Chronology

As mentioned previously, the origin of the Plains Village lifeway has been a topic of debate. Research indicates the Devils Lake area and Sheyenne River valley was used by early villagers. Possible Hidatsa occupations include Sharbano (32BE419), Schultz (32RM215), and possibly Horner-Kane (32RY77). An Awaxawi Hidatsa village is reported to have been present at Grahams Island (Will 1924:328). Bowers (1948:20-21) discusses a Mandan origin myth that indicates one subgroup of the Mandan would have resided for a time in the Sheyenne River valley and north of Devils Lake. A Plains Village (possibly Hidatsa) cultural affiliation is also suggested for Devils Lake-Sourisford burial components at sites such as 32RM19 (Wray), 32RY3, 32RYx6, 32WE401 (Heimdahl), and 32WEx63. At the Shea site (32CS101), a Dakota occupation around AD 1448 is hypothesized. The Cheyenne may have occupied the Biesterfeldt village site (32RM1) during the late 1700s. The Crows, Araphahos, and Atsinas have also been identified as prehistoric residents of the region (Hewes 1948).

What evidence is there that the Plains Village tradition evolved out of the Woodland tradition? What evidence is there that the Plains Village peoples migrated into the area? Were Woodland peoples ancestral to Plains Village peoples or did the two traditions co-exist for a time and represent two or more different cultures? What characterizes Plains Village mortuary practices? How can they be distinguished from later and earlier burial sites?

In testing and excavation programs, techniques and/or specialists need to be utilized which enable the separation of multiple components in order to establish a reliable database concerning lithic, ceramic, bone, and shell technologies. This needs to coincide with collecting samples that provide absolute dates.

### Settlement Behavior

Fortified Plains Village encampments are reported along the Sheyenne and Maple rivers in the Sheyenne River Study Unit (Michlovic and Holley 2006;

Michlovic and Schneider 1993). Some Plains Villagers interred members of their dead in burial mounds. At Biesterfeldt and the Hintz (32SN3) sites, Plains Village groups resided in earthlodges nearly identical to those of the Mandan, Hidatsa, and Arikara along the Missouri River. At the Shea site (32CS101), evidence of houses has not been revealed from the excavations (Michlovic and Schneider 1993). What type of structures were constructed and occupied by the various Plains Villagers in the study area? What were the Plains Village settlement patterns in the Sheyenne River Study Unit? Is there a greater density of Plains Village sites in the lower Sheyenne basin than the middle or upper parts?

Variations in the levels of Devils Lake between 1882 and 1969 have been reported (Floodman 1989). Variation in lake levels throughout time undoubtedly affected settlement patterns and should be considered in recommendations for surveys and during surveys.

#### Native Subsistence Practices

From the little that is presently known, bison hunting was central to the overall subsistence, but what other faunal resources were exploited? To what extent was gardening practiced, and how much dependence was there on wild plants? It is imperative that fine mesh screening and flotation be implemented to sample for wild seeds and domesticated plant remains in cultural deposits.

What were the subsistence strategies of the Plains Villagers; what resources were exploited? How did Plains Village gardening practices change through time? How important were garden crops to early Plains Village groups? Did adoption of any new species during the Plains Village period result in very great increases in storable food surpluses? How did the hunter-gatherer-gardener lifeway of the Plains Villagers in the Sheyenne River Study Unit compare to other Plains Villagers in other study units? To what extent were fish and other riparian resources utilized?

#### Technologies

Stone, ceramic, bone, and shell materials comprise much of the archeologically recoverable material culture for Plains Village groups. Chipped stone tools were made from Knife River flint (KRF) and locally available materials such as Swan River chert and other quartzites. Granite and quartzites were used for pecked and ground stone tools.

How do Plains Village technologies compare to earlier and later technologies? We need baseline information concerning lithic, ceramic, bone, and shell technology from single component, well dated sites.

## Artifact Styles

Chipped stone tools that are diagnostic of the Plains Village period would include small, well-made, straight-sided triangular projectile points with deep side-notches set well up off the base. Another, possibly diagnostic, Plains Village chipped stone tool is the long, thin bifacially prepared unilateral cutting tool that was often hafted in a bison rib handle (Gregg 1993).

Michlovic and Swenson (1998) offer a classification system for ceramics from Northeastern Plains village sites. What are distinguishing artifacts styles between Late Woodland and Plains Village assemblages? Were Sandy Lake ware and the Northeastern Plains Village ceramics (Buchanan Flared Rim ware, Owego Flared Rim ware, and Lisbon Flared Rim ware) systemically related at sites or do they represent different occupations ?

## Regional Interaction

At Devils Lake-Sourisford sites, exotic items made from marine shell, catlinite, and copper are present. Columella beads and marine shell masks are made from whelk and conch from the Gulf or Atlantic coast. Catlinite from southwestern Minnesota was carved into tubular pipes or engraved tablets. From the Great Lakes region, copper beads and copper liners (for the marine shell masks) have been recovered.

At some of the fortified village sites, catlinite has been recovered. Michlovic (1990) presents archeological findings (including items of obsidian, catlinite, and KRF) and ethnohistorical evidence of an extensive trade network in the Northeastern Plains during the late prehistoric period.

What are the mechanisms of trade for nonlocal materials? Can trade routes be identified? What other evidence is there for regional exchange?

## Historic Preservation Goals, Priorities, and Strategies

Relatively little work has been conducted in the Sheyenne River Study Unit. Baseline data for all of the research topics is needed from excavated and dated sites. More excavation and testing are needed.

Property types recorded in the study area are cultural material scatters, earthlodge villages, earthworks, fortifications, graves, hearths, mounds, and pits. Functional site types presently identified for this study unit are residential bases, mortuary, and bison kill and processing areas. Any property with the potential to yield data concerning this tradition would be eligible for nomination, given sufficient integrity.

A few suggested priorities are presented below.

1. Consult a geomorphologist to identify land surfaces which date to the Plains Village period throughout the study area.
2. Testing and excavation of sites using rigorous field techniques to maximize information collected is needed. Use fine mesh screening and flotation in order to collect seeds and domesticated floral remains in cultural deposits.
3. Conduct intensive inventories of unsurveyed areas in the Sheyenne River Study Unit.
4. Document private collections and locate additional Plains Village sites based upon site leads from private collectors. Complete NDCRS site forms for all identified properties.
5. Map (using precision equipment) all identified small fortified sites.

### Equestrian/Fur Trade Period

The Equestrian Period (AD 1780-1880) spans the time subsequent to the introduction of the horse and the arrival of Euro-American trade goods to the region. Euro-American exploration and fur trade expansionism provided written records documenting cultural and environmental conditions.

#### Paleo-Environmental Modeling

Climatic conditions during late prehistoric and protohistoric times are thought to have been cooler and moister (referred to as the Neo-Boreal episode or Little Ice Age) than the present (cf. Grove 1988). Concordant with these moister conditions was a posited buildup in the regional biomass including the bison herds. Early traders such as Alexander Henry wrote of flourishing animal and plant communities in the Red River valley (cf. Gough 1988; Reid and Cannon 1928). Did the Little Ice Age end early in the Equestrian period?

#### Cultural Chronology

There are no defined and named protohistoric taxonomic units of the Equestrian tradition in the study unit. Tribes posited to have been in the territory during early historic times include Dakota (Yankton and Yanktonai), Cheyenne, Assiniboine, and Plains Ojibwa and Ottawa.

Representative samples of trade materials collected using fine screen recovery during testing and major excavation will aid in developing a chronological scheme.

#### Settlement Behavior

How did protohistoric and historic Equestrian Nomadic settlement behavior differ from that of prehistoric nomadic hunter-gatherers? In the

Sheyenne River Study Unit, many stone circle sites have been recorded. However, most have not been identified as to cultural/temporal affiliation. In other study areas, most stone circle sites are suggested as being temporary camps occupied by prehistoric Woodland peoples (cf. Deaver and Deaver 1987). However, many were constructed by equestrian nomads and equestrian villagers. Techniques and strategies need to be utilized that will enable identification of cultural/temporal affiliation.

### Native Subsistence Practices

Equestrian Nomadic subsistence practices involved hunting principally bison, plus deer and pronghorn, supplemented by foraging for wild plant foods such as prairie turnip (*Psoralea esculenta*) (cf. Denig 1961:10-13; Reid 1977). What differences should be expected in floral remains recovered from Equestrian Nomadic versus Plains Village winter residential bases? It is imperative that fine-mesh screening and flotation be implemented to sample for seeds of tobacco and other plant macrofossils in cultural deposits.

### Technologies

During late prehistoric times, Plains Woodland and Plains Village societies experienced varying degrees of cultural change associated with shifts in settlement and subsistence practices. The introduction of the horse and fur trade expansionism provided changes in existing native technologies. What evidence of this is seen in the artifact assemblages?

### Artifact Styles

In-depth study of various regional artifact styles provides useful clues for separating or combining the material culture of particular ethnic groups on the Northern Plains. Are there recognizable stylistic differences in archeological remains?

### Regional Interaction

One of the components at the Lake Coe site (32ED85) contained a glass trade bead, an iron dangle, and an English Delftware plate fragment suggesting a possible Dakota or Yanktonai Sioux affiliation (Toom et al. 7.60). Regarding this identification investigators (ibid.) note, "The piece of English Delftware, which we believe would not have been available in the area until the AD 1800s, allows us to date this component rather precisely. It is possible that the piece of Delftware derives from a later historic European American component, but we find this less likely in the absence of any other clear evidence of such an occupation of the site." A blue glass trade bead also was recovered from the



**Dahnke-Reinke site (Thompson 1990:48). What evidence of regional interaction is there? Did interactions between the Plains Villagers and their non-Village neighbors change during this period? Did many of the trails identified on early historic maps witness use during protohistoric times?**

### **Historic Preservation Goals, Priorities, and Strategies**

Ethnohistorical research provides the necessary background information to generate information concerning prehistoric and protohistoric settlement and land use for the study unit. Little is known about this period, and thus any property with the potential to yield data concerning this tradition would be eligible for nomination, given sufficient integrity.

A few suggested priorities are presented below.

1. Conduct ethnohistorical research to provide background information (climate, environmental, cultural, etc.) and site lead information regarding this tradition.
2. Follow up #1 with surveys to identify and record properties.
3. Document private collections and locate additional Plains
4. Equestrian sites based upon site leads from private collectors.
5. Testing and excavation of sites using rigorous field techniques to maximize information collected is needed.
6. Conduct noncollecting, metal detector surveys of a sample of ring features at a sample of ring sites in an effort to identify historic metal artifacts indicating historic period site use.