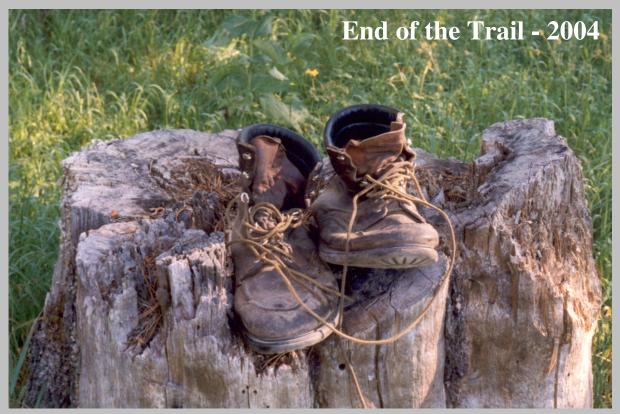
Lewis and Clark And The Corps of Discovery



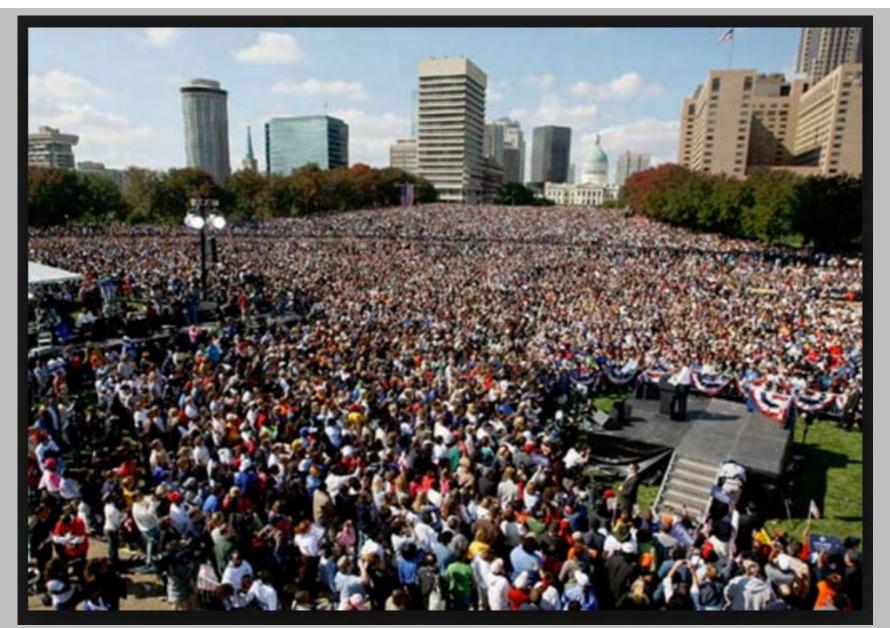
Steve F. Russell Emeritus Associate Professor Iowa State University sfr@iastate.edu







My concept of interest in Lewis and Clark Ames, Iowa 2018



Actual Interest in Lewis and Clark

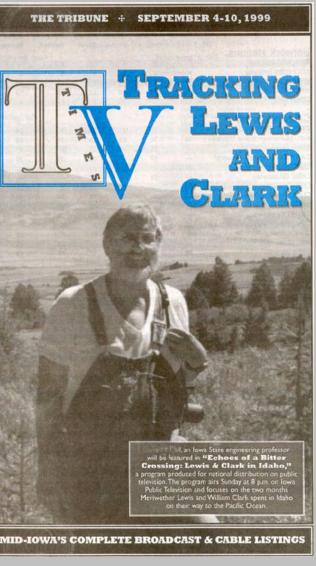
Hiking the Lewis and Clark Trail



The Agony

Moon Saddle, Idaho Fall 2009

Big Hole Pass Montana Summer 1999



The Ecstasy

OLLI Lewis & Clark (Presentation #1) 2018-01-10.ppt

© Steve F. Russell, Iowa State University

Topics to be Covered

- Purpose of the Expedition
- Orders from President Jefferson
- Corps of Discovery Leaders, Lewis and Clark
- Steve Russell, Who am I? Who I am Not?
- The Amazing Journals
- Westward 1804-1805, Maps and Photos

- Expedition Members
- Western Indian Tribes
- Surprises and Adventures
- Conceptions and Misconceptions
- Trail Research
- Trail Friends and Colleagues
- My Personal Research
- Photo Gallery

INFERENCE

A Skill Needed for Good Historical Research

Mark Twain: "I've found that common sense ain't so common."

Inference

A Conclusion Reached on the Basis of <u>Evidence</u> and <u>Reasoning</u>

A concept often misunderstood, or forgotten, or ignored, in the conduct and publishing of historic trail research

SYNONYMS: deduction, conclusion, reasoning, conjecture, speculation, guess, presumption, assumption, supposition, reckoning, extrapolation

Inference (cont.)

With most historical research, the researcher seldom has first-hand knowledge of the research subject. In the case of the Lewis and Clark Trail, we have wonderful historical journals, reports, and maps; and written accounts by contemporary observers. Thus, research results and conclusions depend on the skillful use of inference.

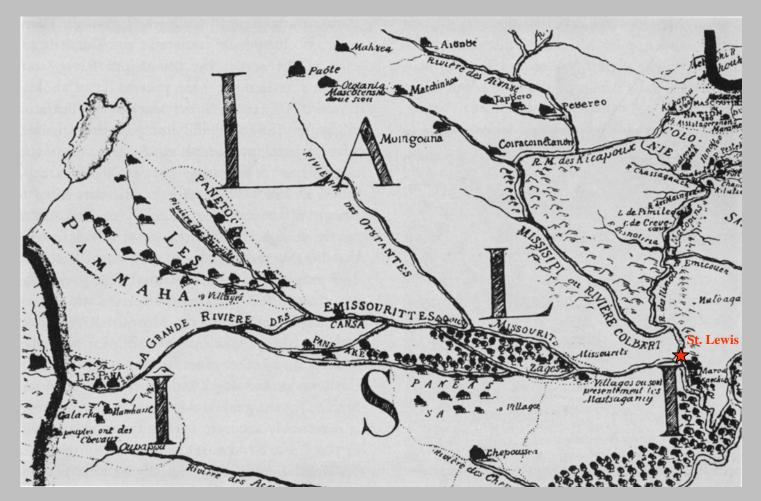
It is important for both reader and researcher to keep utmost in mind that absolute truth in historical research is unattainable. In spite of best efforts, mistakes are made in the original documents and mistakes are made by the researchers. In essence, historical research is based on <u>best-effort concepts</u>. For these reasons, I do not claim to be the "know all – tell all" of the Lewis and Clark trail or story.

The Reasons for the Expedition

- Opening of the 'West', East Coast to Midwest
- Opening of the West, Mississippi River to the Pacific Ocean (Louisiana Purchase 1803)
- Opening of the West, Orders From President Jefferson

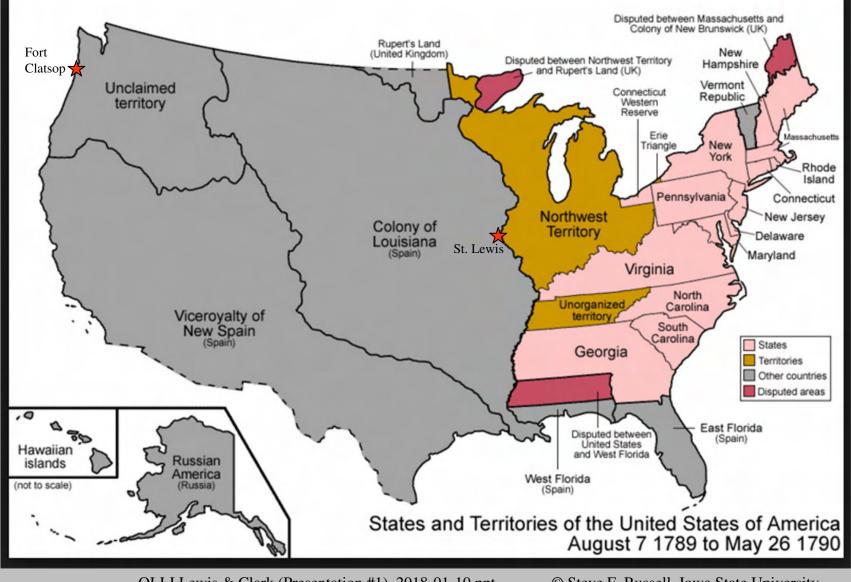
Opening Western North America

Opening of the West Midwest 1684



French Louisiana

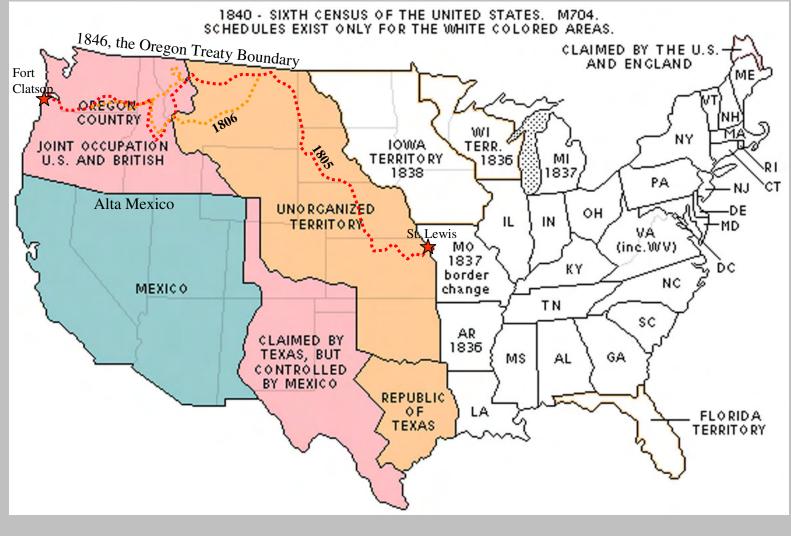
Opening of the West East Coast to Midwest 1790



Opening of the West Mississippi River to the Pacific Ocean Lousiana Purchase 1803

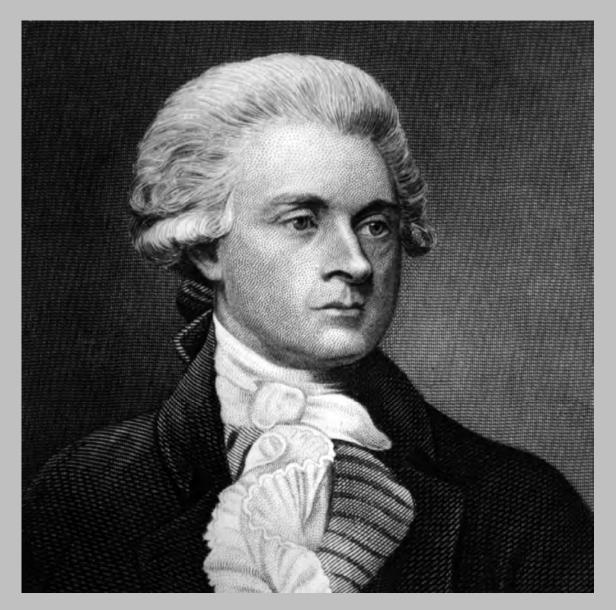


Opening of the West Mississippi River to the Pacific Ocean North America (USA) 1840



President Thomas Jefferson

Orders from President Jefferson



Orders from President Jefferson

Suggestions from Colleagues

Record information about the western Indians such as Indian life, languages, customs, occupations, diseases, morals, tribal religions, native legal practice, concepts of property ownership, and medical procedures.

<u>Attorney General Levi Lincoln Sr</u>. recommended that the expedition carry some cowpox matter to administer to the Indians so they could be protected from smallpox.

<u>Dr. Benjamin Rush</u> asked the explorers to record Indian eating, sleeping, and bathing habits; when they married, how long children were breast fed and how long they lived; their pulse rates morning, noon, and night, and night both before and after they ate. He also wanted to know about crime, suicide, intoxication, worship practices, sacred objects, and burial rituals.

A. The object of your mission is to explore the Missouri river, & such principal stream of it, as, by it's course & communication with the water of the Pacific ocean may offer the most direct & practicable water communication across this continent, for the purposes of commerce.

This is the search for the northwest passage to the Pacific Ocean

B. The commerce which may be carried on with the people inhabiting the line you will pursue, renders a knowledge of these people important. You will therefore endeavor to make yourself acquainted, as far as a diligent pursuit of your journey shall admit, with the names of the nations & their numbers:

a) the extent & limits of their possessions;

b) their relations with other tribes or nations;

c) their language, traditions, monuments;

d) their ordinary occupations in agriculture, fishing,

hunting, war, arts, & the implements for these;

e) their food, clothing, & domestic accommodations;

This is Indian ethnography and relationships

B. (cont.)

f) the diseases prevalent among them, & the remedies they use;

g) moral and physical circumstance which distinguish them from the tribes they know;

h) peculiarities in their laws, customs & dispositions;

i) and articles of commerce they may need or furnish, & to what extent.

This is Indian ethnography and relationships

C. ...objects worthy of notice will be :

a) the soil & face of the country, it's growth & vegetable productions, especially those not of the U.S.

b) the animals of the country generally, & especially those not known in the U.S. the remains & accounts of any which may be deemed rare or extinct [mammoth fossils];

c) the mineral productions of every kind; but more particularly metals, limestone, pit coal & saltpeter;

d) salines & mineral waters, noting the temperature of the last & such circumstances as may indicate their character;

Record Minerals, Plants, and Animals

C. (cont.)

e) volcanic appearances;

f) climate as characterized by the thermometer, by the proportion of rainy, cloudy & clear days, by lightening, hail, snow, ice, by the access & recess of frost, by the winds, prevailing at different seasons;

g) the dates at which particular plants put forth or lose their flowers, or leaf, times of appearance of particular birds, reptiles or insects.

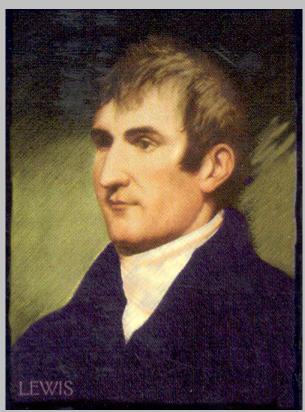
Record Minerals, Plants, and Animals

- **D.** Map and record the geography of the country and make celestial observations.
- **E.** Record information about botany, zoology, and Indian history.
- **F.** Gather information from the western Indians while living at peace with them, i. e., ethnographic data.
- **G.** Begin the development of trade with the Indians.
- **H.** Organize delegations of Chiefs and Elders to be sent to Washington D. C.



Meriwether Lewis & William Clark

Lewis and Clark Co-Captains and Leaders



Captain Meriwether Lewis

"The Naturalist"



Lieutenant William Clark

"The Map Maker"

Lewis – The Naturalist



Clarkia or "Pinkfairies" or "Ragged Robin" Clarkia pulchella (Pursh) OLLI Lewis & Clark (Presentation #1) 2018-01-10.ppt © Steve F. Russell, Iowa State University

Clark – The Map Maker



Lolo Creek and Hungary Creek in the Bitterroot Mountains of North-Central Idaho

OLLI Lewis & Clark (Presentation #1) 2018-01-10.ppt

© Steve F. Russell, Iowa State University

Surprises and Adventures

Lewis named the Marias River in Montana for his 'young' cousin, Maria Wood (he was 31). It is true that the hue of the waters of this turbulent and troubled stream but illy (ill-ly) comport with the pure celestial virtues and amiable qualifications of that lovely fair one; but on the other hand it is a noble river.

Clark named the Judith River in Montana after Julia "Judith" Hancock who was 14 at the time (he was 35). He married her in 1808 when she was 17 and he was 37.

Could either Lewis or Clark run for the US senate today?

MY TRAIL RESEARCH

Steve F. Russell Who Am I? Who Am I Not?

•Electrical Engineer (PhD) and Engineering and Science Researcher. 20 years in industry and consulting, 23 years at Iowa State in EECpE.

•Researched, designed, and developed satellite communication subsystems.

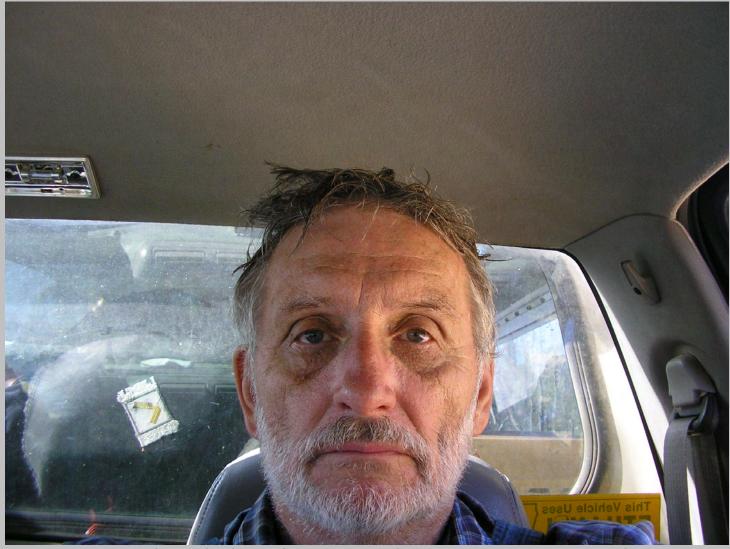
•Researched, designed, and developed emergency radio call boxes.

- Original team member for the NAVSTAR Global Positioning System, 1976.
 Taught communication theory, circuits & systems, discrete math, computer networking, signal processing, etc. at Iowa State.
- •30 years doing historic trail research: Aboriginal Trails of the western US, Lewis & Clark, Oregon and California Trails, military recon trails.
- •30 years of solo hiking and primitive camping.
- •Musician, Jazz Trumpet, Jazz Trombone, Euphonium (classical)

•Ham Radio (Extra Class), K0NJ.

•I SPECIALIZE IN FACTUAL, NO-NONSENSE, HIGH-QUALITY RESEARCH THAT IS BASED ON ORIGINAL SOURCES. •I AM NOT A POLITICIAN. •I DO NOT FOLLOW THE RULES OF POLITICAL CORRECTNESS.





Trail Hiking is Hard * What Day Is It?

OLLI Lewis & Clark (Presentation #1) 2018-01-10.ppt © Steve F. Russell,

© Steve F. Russell, Iowa State University

Why Me?

- •Keen interest in historic trail research, especially Lewis and Clark.
- •I have lived all of my young life along the trail in Idaho and Montana: Lewiston, Weippe, Lochsa Lodge, Missoula, Stevensville, Bitterroot Valley.
- •Extensive experience using the Global Positioning System (GPS).
- •Extensive experience using Geographic Information Systems.
- •Extensive experience making maps (Cartography).
- •A love of solo hiking and primitive tent camping, in sun, rain, snow, heat, cold etc.
- •Love of Animals, Plants and Nature.
- •Nobody else weird enough to do it.



c1946 Steve Forrest Russell lived at Lochsa Lodge when it was owned by the Steve Richard Russell Family

Lochsa Lodge, Idaho (on the Lewis and Clark Trail)

Why Me? (cont.)



Research Methodology

Computers, Sweat, and Serendipity

What Makes My Trail Research Unique

- •Hiking the actual trail tread
- •Primitive Camping
- •Photos I take while hiking the trail
- •Computer research methods, GPS, GIS
- •My map making ability
- •Skill as a Woodsman
- •Scholarly approach
- •Use only original sources (don't read fiction)

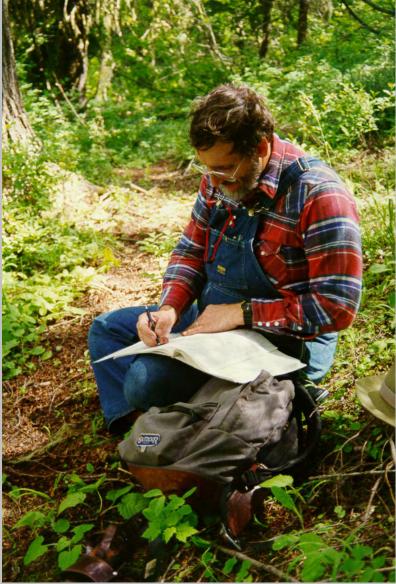
How I am Like Others -- Work with:

- •Historic journals
- •Archive maps
- •Historic photos
- •Aerial and Satellite photos





OLLI Lewis & Clark (Presentation #1) 2018-01-10.ppt



When I was 'Young'



When I was not so 'Young'

OLLI Lewis & Clark (Presentation #1) 2018-01-10.ppt



Cambium-Peeled Tree, Food for Horses and People

OLLI Lewis & Clark (Presentation #1) 2018-01-10.ppt



The Amazing Journals

https://lewisandclarkjournals.unl.edu/item/lc.jrn.introduction.general

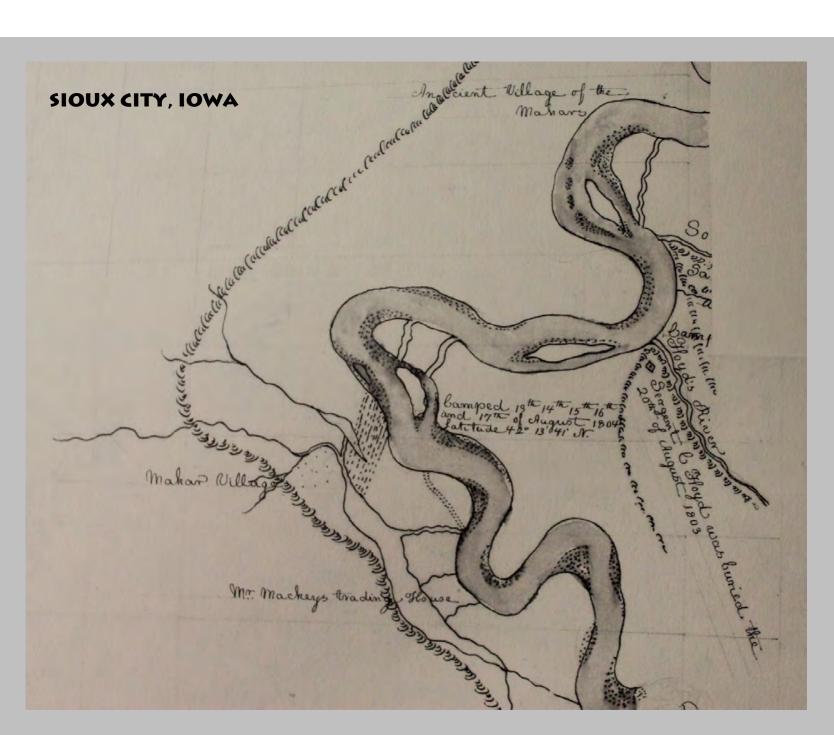
- •11 Journal Volumes in the Moulton Edition
- •1 Herbarium Volume (plants)
- •1 Map Volume (large format)
- •Journal Keepers: Lewis, Clark, Gass, Whitehouse, Ordway, Floyd

small pieces of bines clay is placed in the bollow o The bould to depende the tobacco from the end of. stem ind is of an irregularly rounded figure not fill The live purfectly close in order that The emoke may pap. This is the form of the pipe. Their tobacce is of the same kind that used by the Minoulo thansans and Alter Wanney war Dela Ricares of the Mipauri. the Shochenedo not cultivate This blant, but oblain it from the Rocky mountain Indian the south, all the momen and children of the camp n shortly collected about the lodge to endulge themselver on laaking at us me being the first white persons they he ever seen after the cerimony of the pipe was over I di . tributed the remainder of the small articles Ihad hought with me among the momen and children by this time it was late in the evening and we had no laisted any faco since the evening before. The blief intermed us that they had nothing best berries to ea 1. Shoshone Smoking-pipe, August 13, 1805, Codex F, p. 99

East and ending with the North. he now presented the pipe to me as if desirous that I should smoke, but when I reached my hand to receive it, he drew it back and repeated the same cremony three times, after which he pointed the stem first to the heavens then to the center of the magic circle smoked himself with three whifs and held the pipe untill I took as many as I thought proper; he then held it to each of the white persons and then gave it to be consumed by his warriors. this pipe was made of a dense simitransparent green stone '* very highly polished about 2½ inches long and of an oval figure, the bowl being in the same direction with the stem. a small piece of birned clay is placed in the bottom of the bowl to seperate the tobacco from the end of the stem and is of an irregularly rounded figure not fitting the tube purfectly close in order that the smoke may pass. this is the form of the pipe.¹⁵ their tobacco is of the



same kind of that used by the Minnetares Mandans and Ricares of the Missouri.¹⁶ the Shoshonees do not cultivate this plant, but obtain it from the Rocky mountain Indians and some of the bands of their own nation who live further south. I now explained to them the objects of our journey &c. all the women and children of the camp were shortly collected about the lodge to indulge themselves with looking at us, we being the first white persons they had ever seen. after the cerimony of the pipe was over I distributed the remainder of the small articles I had brought with me among the women and children. by this time it was late in the evening and we had not taisted any food since the evening before. the Chief informed us that they had nothing but berries to eat and gave us

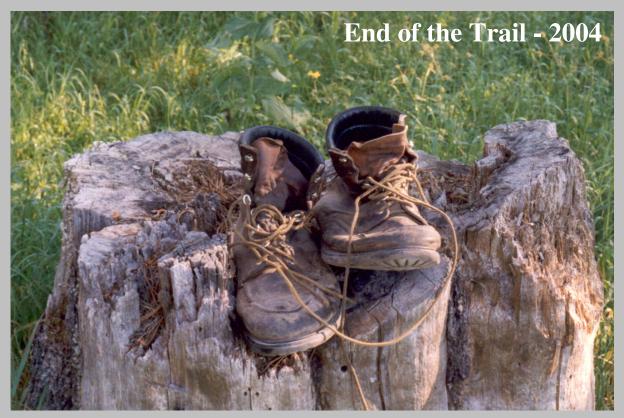


Surprises and Adventures

August 12, 1806: Lewis was shot in the butt by hunter Peter Cruzatte, who thought he was shooting at an elk. (It's not a bad idea to shoot the boss in the butt and then claim he was an Elk!)



Lewis and Clark And The Corps of Discovery

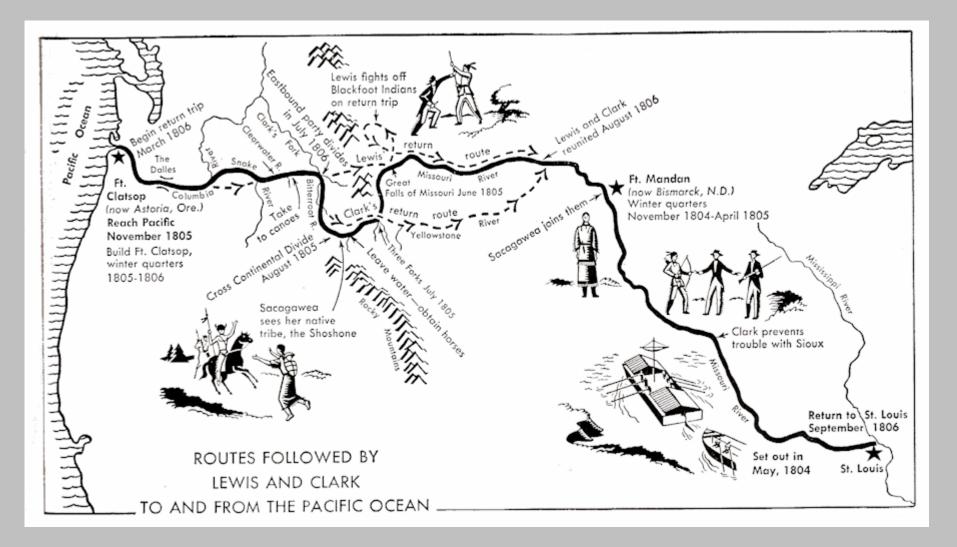


Steve F. Russell Emeritus Associate Professor Iowa State University sfr@iastate.edu

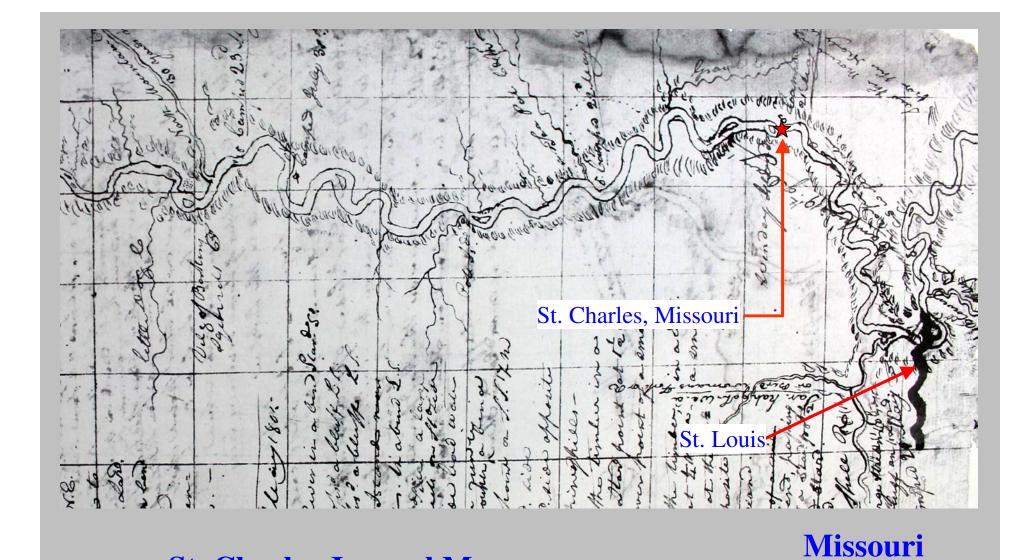


Traveling the Lewis and Clark Trail with The Corps of Discovery

Westward: 1804-1805



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St. Charles Journal Map

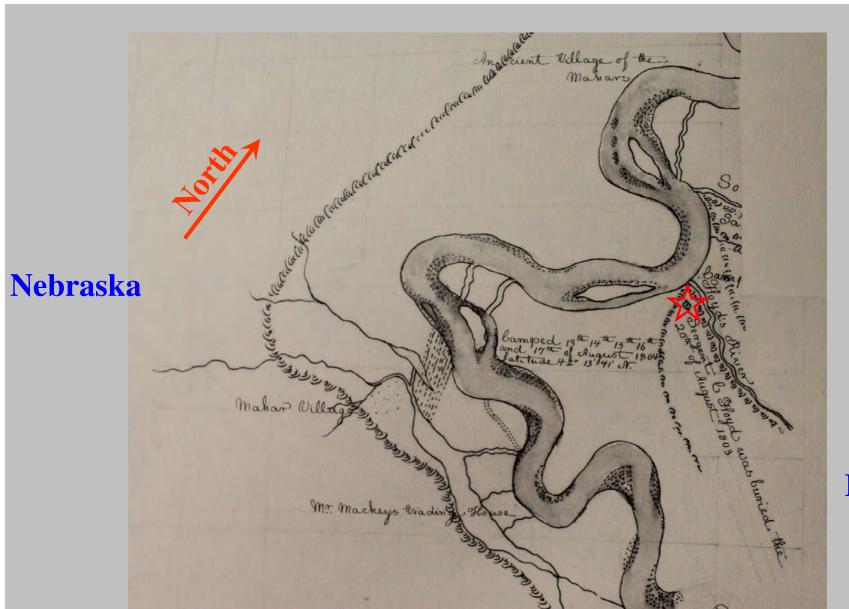
New Madrid Earthquake December 16, 1811



St. Charles Topo Map

New Madrid Earthquake December 16, 1811

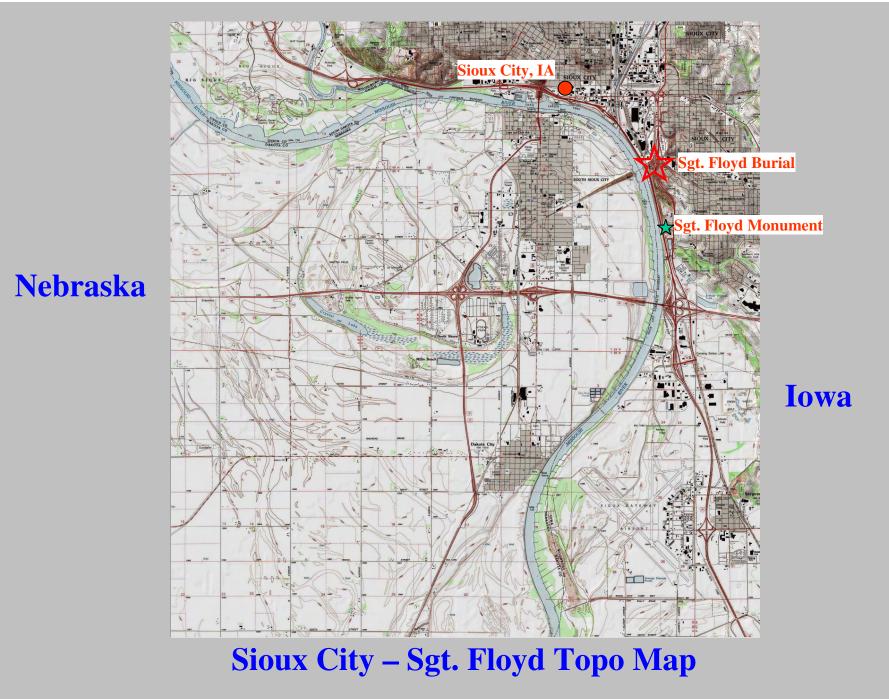
Missouri



Sioux City – Sgt. Floyd Journal Map

OLLI Lewis & Clark (Presentation #1) 2018-01-10.ppt © Steve F. Russell, Iowa State University

Iowa



OLLI Lewis & Clark (Presentation #1) 2018-01-10.ppt

SERGEANT FLOYD MONUMENT

The Floyd Monument honors Sergeant Charles Floyd, the only man to die on the Lewis and Clark Expedition. He succumbed on Iowa soil and was buried near presentday Sioux City. It was erected 1900-1901.

Lewis and Clark set out up the Missouri with 43 men on May 14, 1804, and reached the southwestern border of Iowa on July 18. They spent 33 days traveling along the western border of Iowa.

On August 19 Captain Clark noted that Floyd was "taken verry bad all at once with a Biliose Chorlick we attempt to relieve him without success". On August 20 he recorded: "Serjeant Floyd as bad as he can be no pulse & nothing will Stay a moment on his Stomach or bowels.... Serj. Floyd Died with a great deal of Composure... We buried him on the top of the bluff 1/2 Mile below a Small river to which we Gave his name, he was buried with the Honors of War much lamented a Seeder post... was fixed at the head of his grave. post... was fixed at the head of his grave. This Man at all times gave us proofs of his This Man at all times gave us proofs of his the Floyd Monument was the first Registered The Floyd Monument was the first Registered Historic Landmark in the United States. (over)

Erected by the State Hist

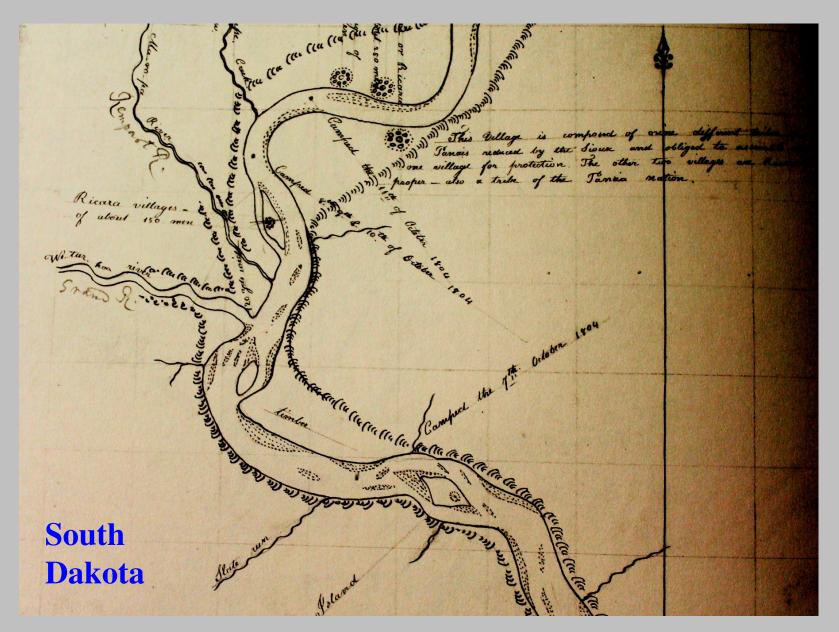
Sgt. Floyd Monument, Sioux City

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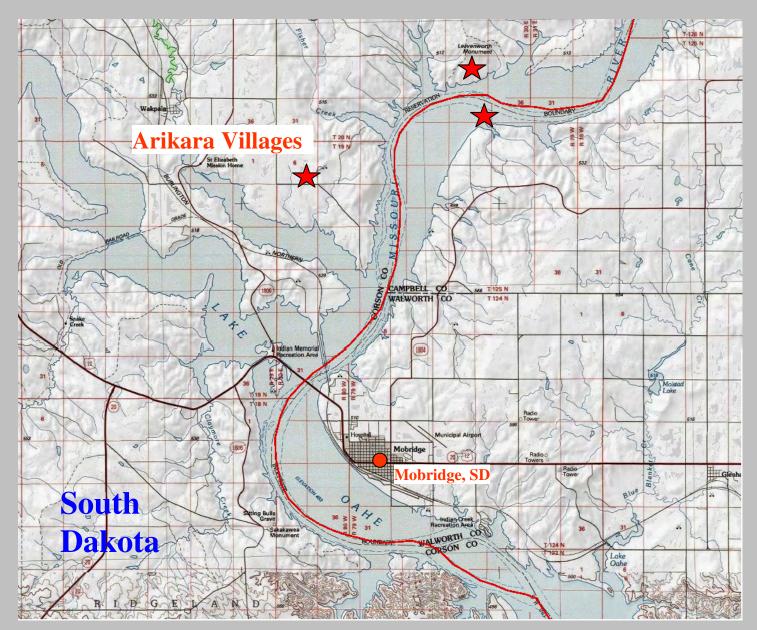


Lead Plate: Verendres Expedition 1743 (South Dakota)

OLLI Lewis & Clark (Presentation #1) 2018-01-10.ppt



Arikara Villages Journal Map

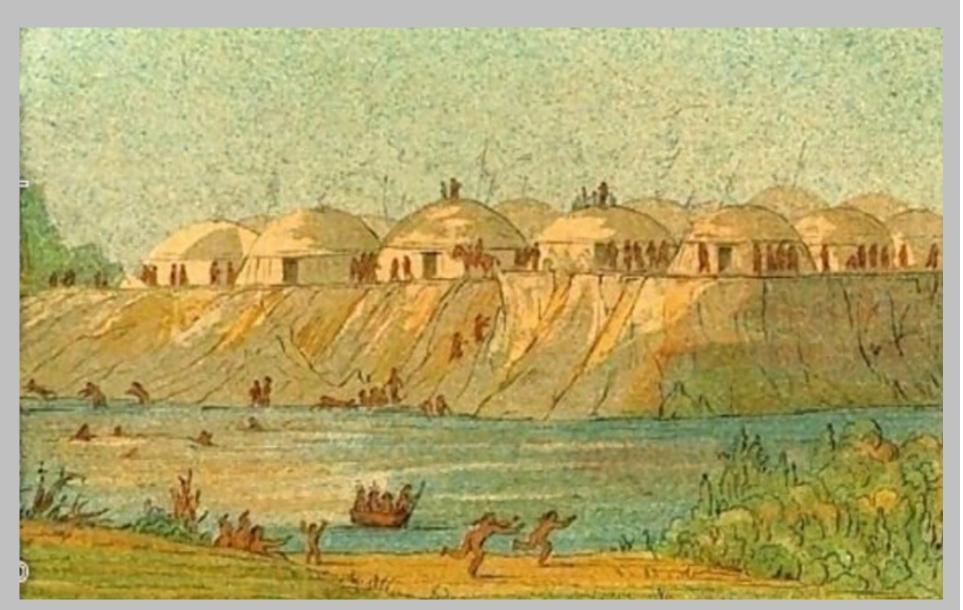


Arikara Villages Topo Map

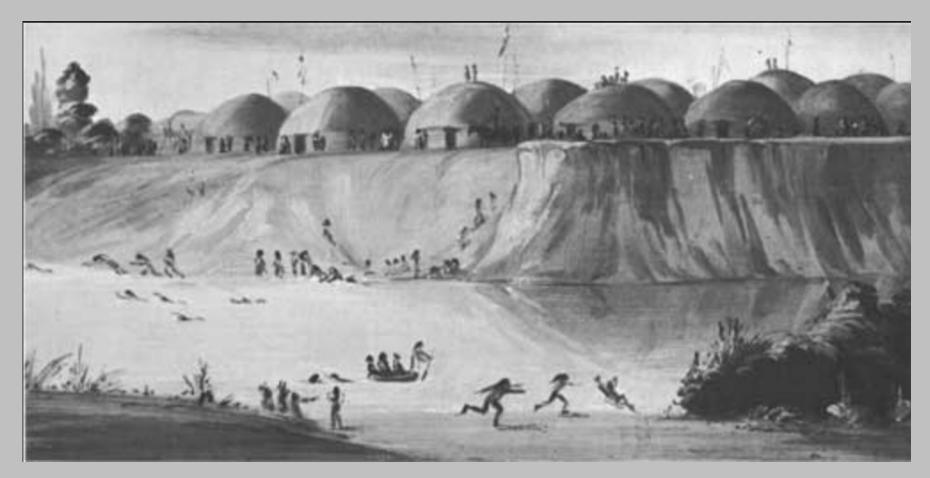


South Dakota

Arikara Village 2016 (View Southward)



North
DakotaA Village of the Hidatsa Tribe at Knife River, c1832



Minnaterree Village. formerly located northwest of present-day Bismarck, N.D., as portrayed by George Catlin, c1832.

North Dakota

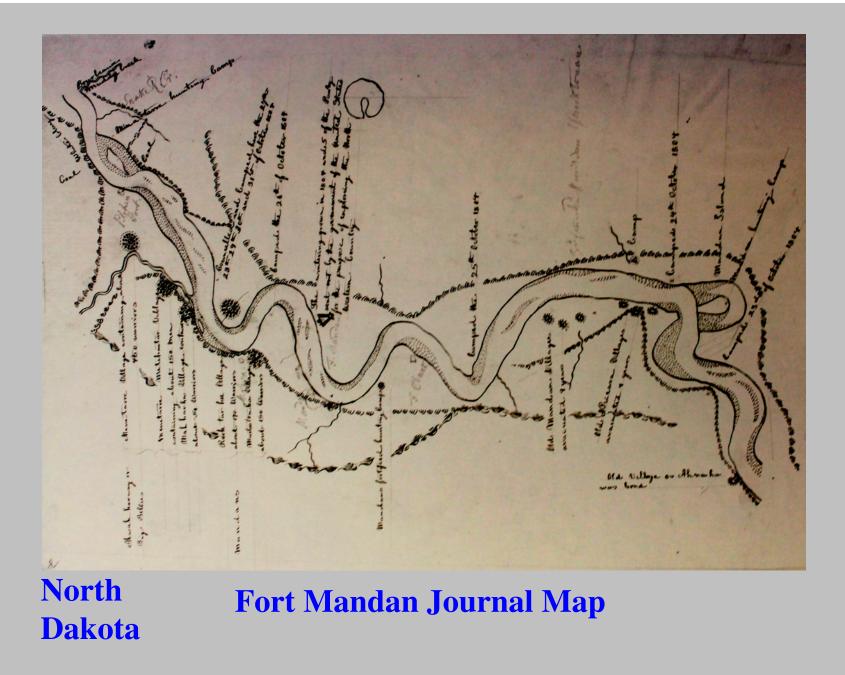


Slant Village, once home of the Mandan Indians near Mandan, N.D., now restored as a historical attraction along the Lewis and Clark Trail. OLLI Lewis & Clark (Presentation #1) 2018-01-10.ppt © Steve F. Russell, Iowa State University

Surprises and Adventures Scarify

October 9, 1805 (Clark): a woman faind madness &c. &c. Singular acts of this woman in giveing in Small potions all She had & if they were not received She would Scarrify her Self in a horid manner &c.

October 9, 1805 (Ordway): one of their women was taken with fit by one of our fires. She began Singing Indian and to giving all around hir Some commass roots, and brasslets which hung about hir one of our party refused to take them from hir. She then appeared angry threw them in the fire. took a Sharp flint from hir husband and cut both of hir arms in Sundry places So that the blood gushed out. She Scraped the blood in hir hand and Eat it, and So continued in this way about half an hour then fainted or went in to a fit Some time then came too by their puting water on hir and Seemed to take great care of hir &C

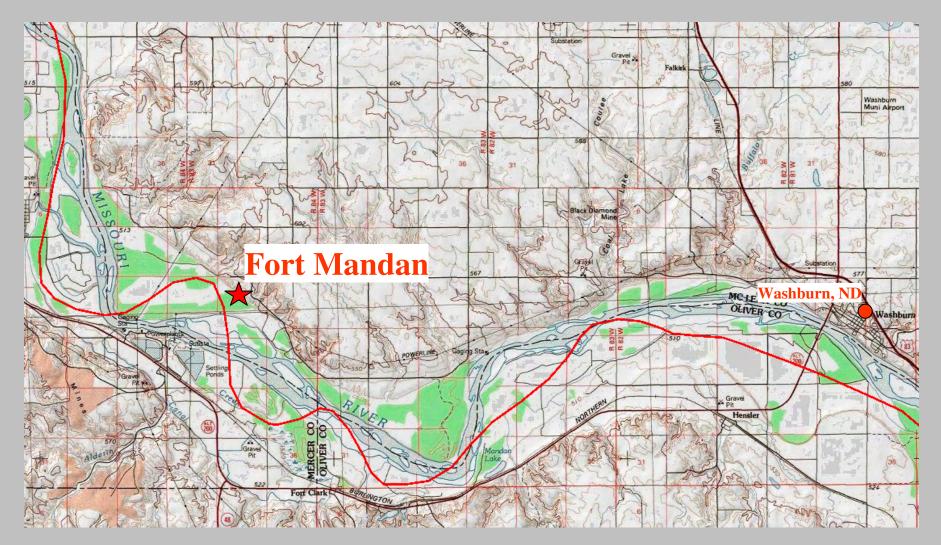




North Dakota

OLLI Lewis & Clark (Presentation #1) 2018-01-10.ppt © Steve F. Russell, Iowa State University

Fort Mandan Sat Map



Fort Mandan Topo Map

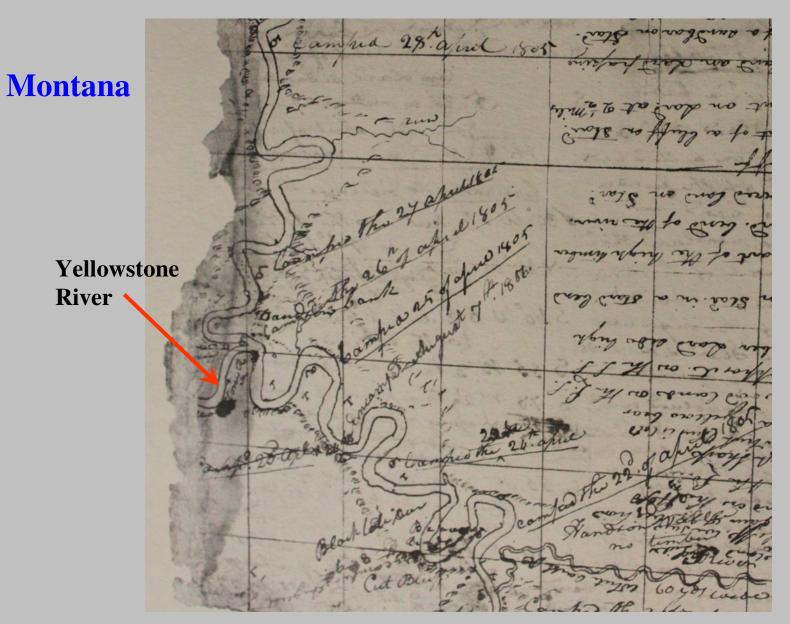
North Dakota



Fort Mandan, North Dakota

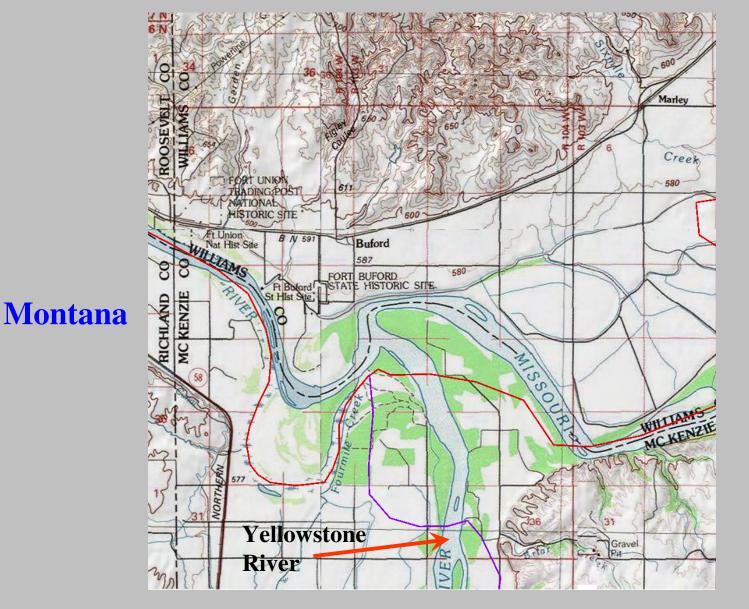


Fort Mandan, North Dakota



North Dakota

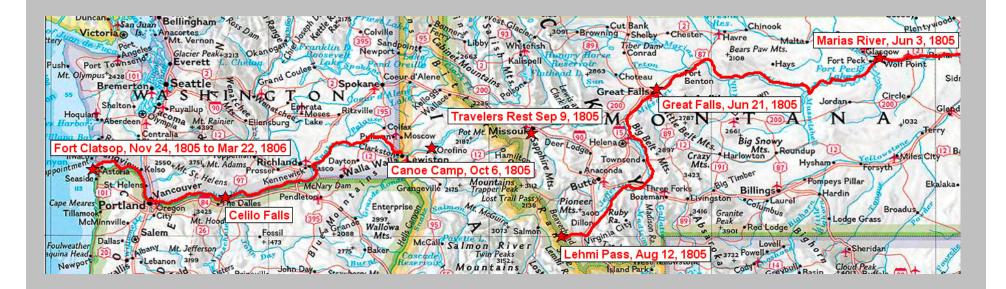
Yellowstone River Journal Map





Yellowstone River Topo Map

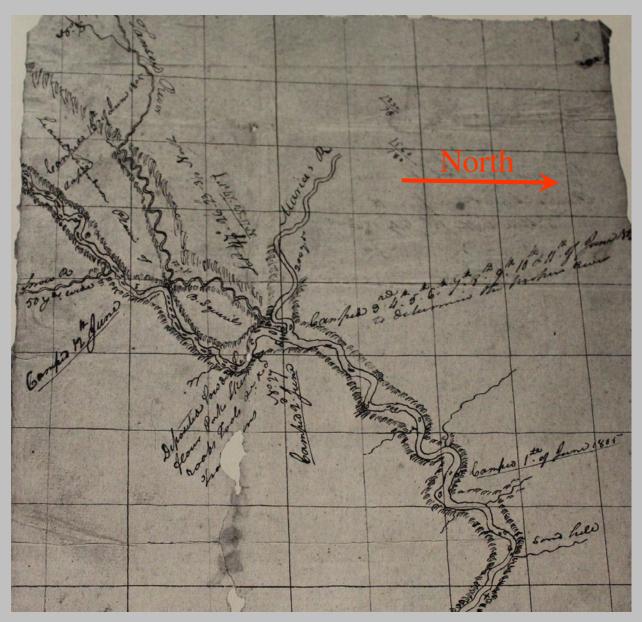




Marias River to Fort Clatsop 1805

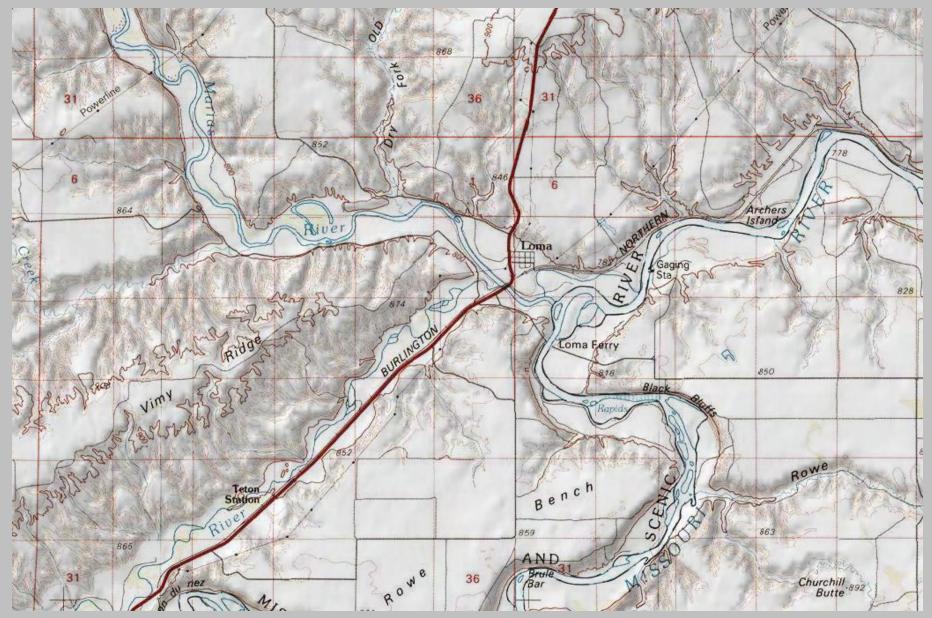
https://en.wikipedia.org/wiki/Fort_Mandan

http://www.pbs.org/lewisandclark/inside/idx_corp.html





Marias River Journal Map

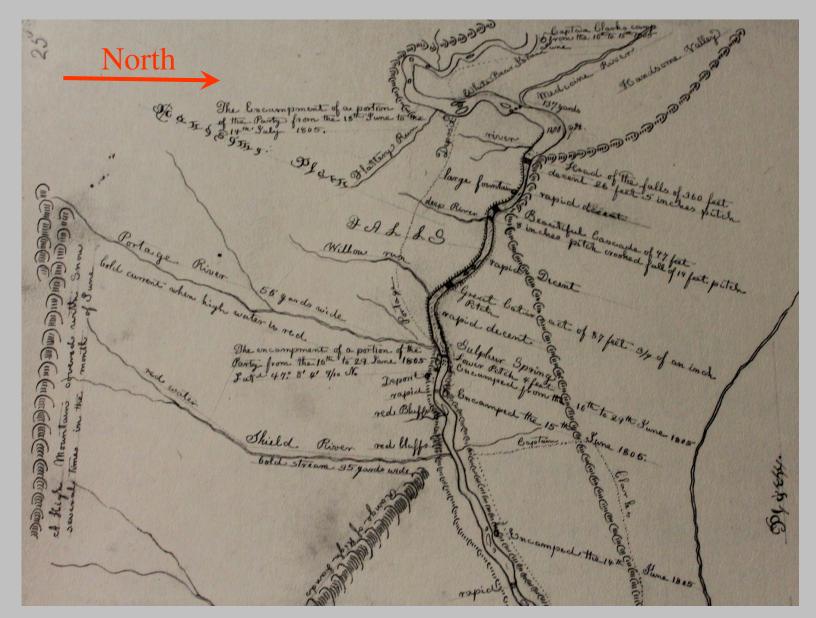


Marias River Topo Map

Montana

OLLI Lewis & Clark (Presentation #1) 2018-01-10.ppt

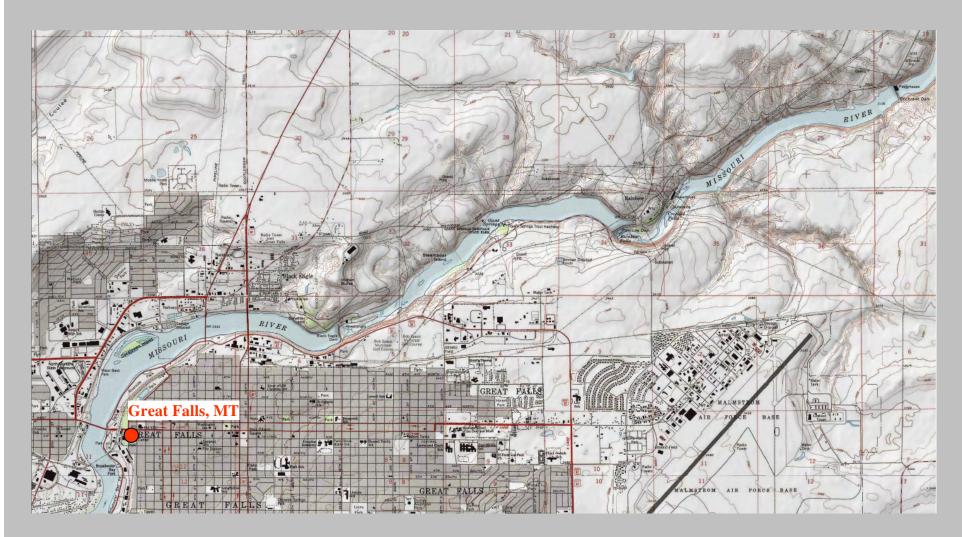
© Steve F. Russell, Iowa State University



Great Falls Journal Map

OLLI Lewis & Clark (Presentation #1) 2018-01-10.ppt © Steve F. Russell, Iowa State University

Montana

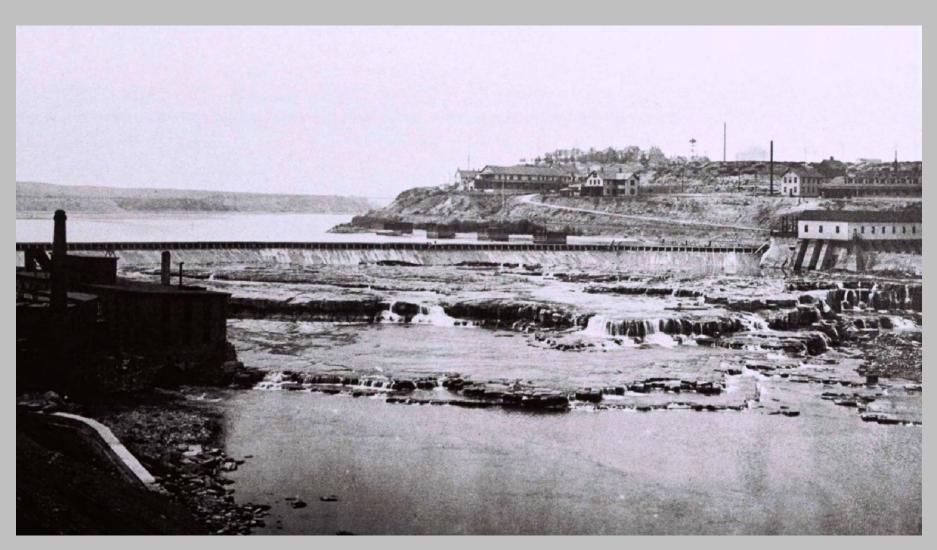


Montana

Great Falls Topo Map



Black Eagle Falls, Great Falls, Montana



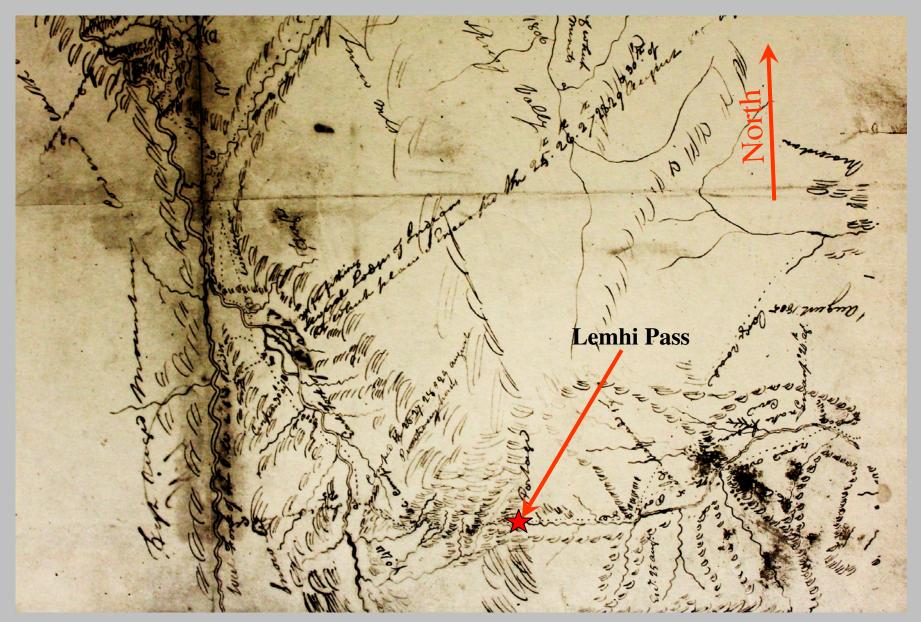
Black Eagle Falls, Great Falls, Montana



Great Falls, Montana

Surprises and Adventures

August 21, 1804: In a monumental act of democracy, the Corps of Discovery held an election. All men, including York, Clark's slave, voted. They elected Patrick Gass as a new sergeant.



Idaho

Lemhi Pass Journal Map

Montana



Idaho

Montana

Lemhi Pass Topo Map



Lemhi Pass Aerial Photo



LEMHI PASS

2010 - AD

7,373 ft. — 2,247 m. above sea level

Lemhi Pass Photo

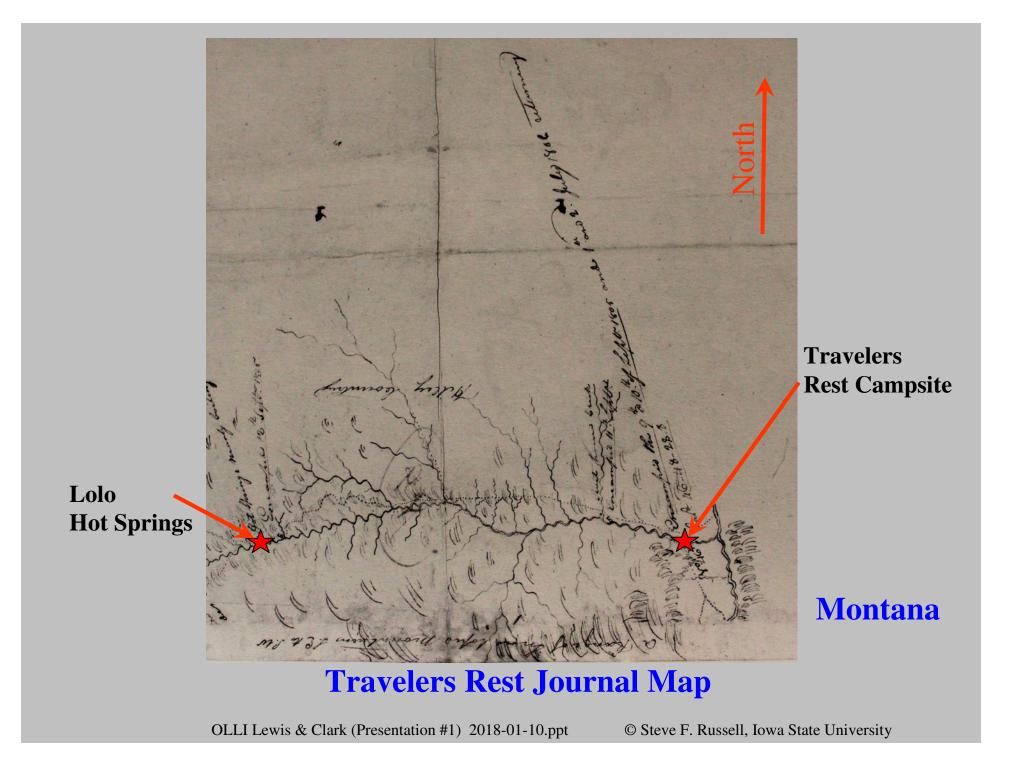


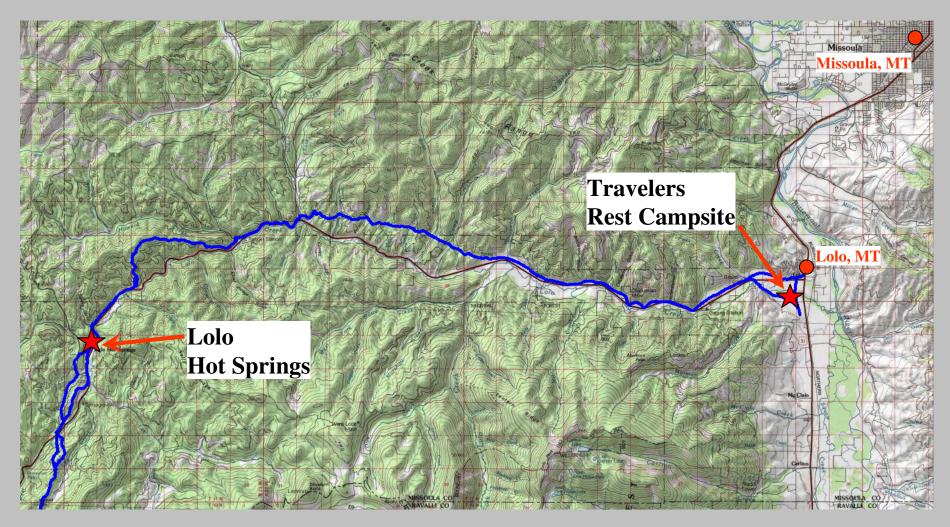
Lemhi Pass Photo – What Lewis Saw Looking Westward



Lemhi Pass Photo – Grad Students Hiking Westward







Travelers Rest Topo Map

Montana

RAVELLERS RES

BITTER ROOT CHAPTER DAUGHTERS OF THE AMERICAN REVOLUTION MISSOULA MONTANA DEDICATE THIS MARKER TO CAPTAINS LEWIS AND CLARK SACAJAWEA, THEIR INSPIRATION AND GUIDE AND THE BRAVE MEN OF THE TRANS-MISSISSIPPI EXPEDITION WHO ENCAMPED ON LO LO CREEK SEPTEMBER 10 - 1805

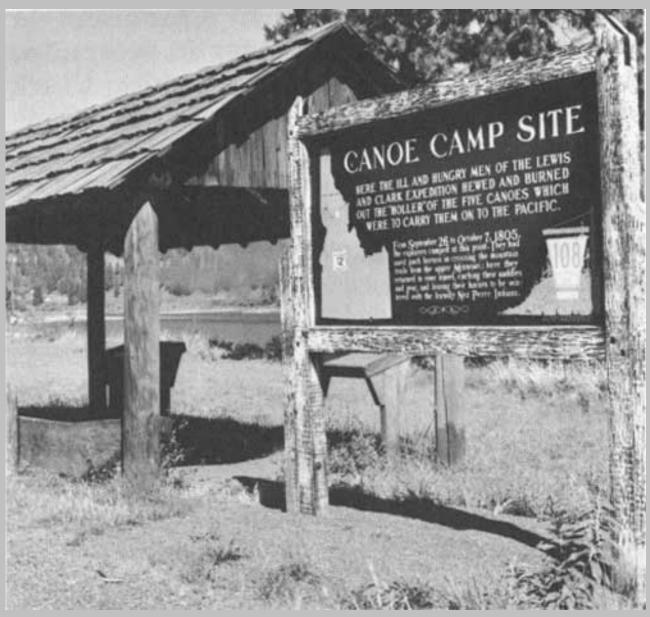
	ORDWAY	WILLARD	COLTER	BRATTON
2 3-	GASS	MINEAL	HALL	THOMPSON
ERS	PRVOR	WISER	COLLINS	WHITEHOUSE
HH CILL	WINDSOR	LEPAGE	WERNER	FIELDS BROTHERS
ster r	GIBSON	HOWARD	FRAZIER	DROULLARD
A H	SHIELDS	POTTS	SHANNON	GOODRICH //
		LABICHE	CRUZATITE	-11
REVEL CHABONEAULHUSBAND OF SACAJAWEA , BAFTISTE				
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Co	and the		DEDICATED	
	OCTOBER 9-1925			
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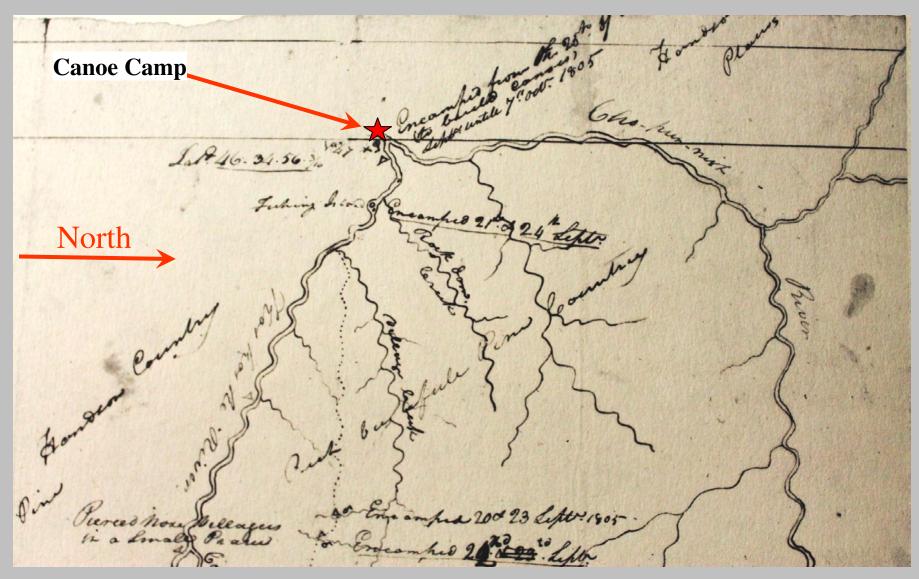
Travelers Rest Campsite, Aerial Photo



Travelers Rest Campsite (telephoto)

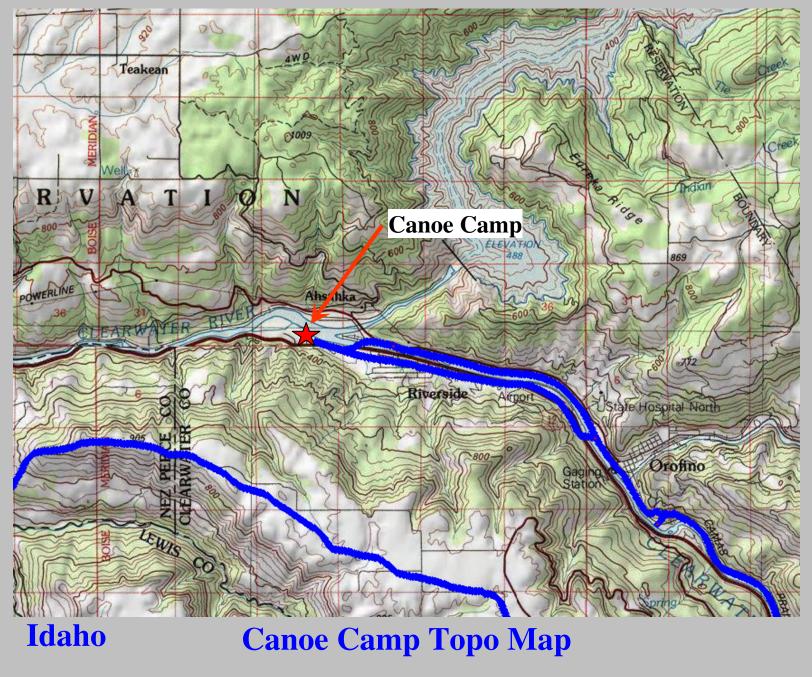


Canoe Camp Sign, 1965



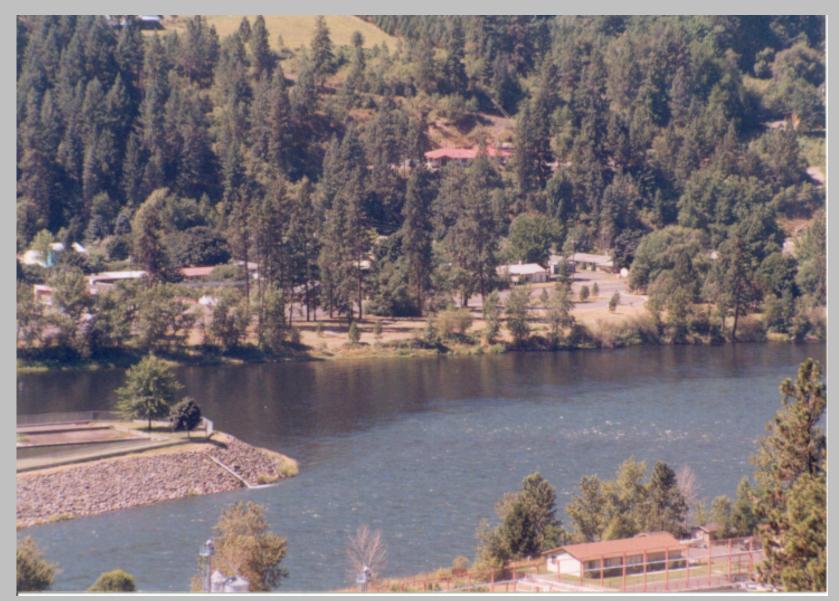
Idaho

Canoe Camp Journal Map





Canoe Camp Aerial Photo

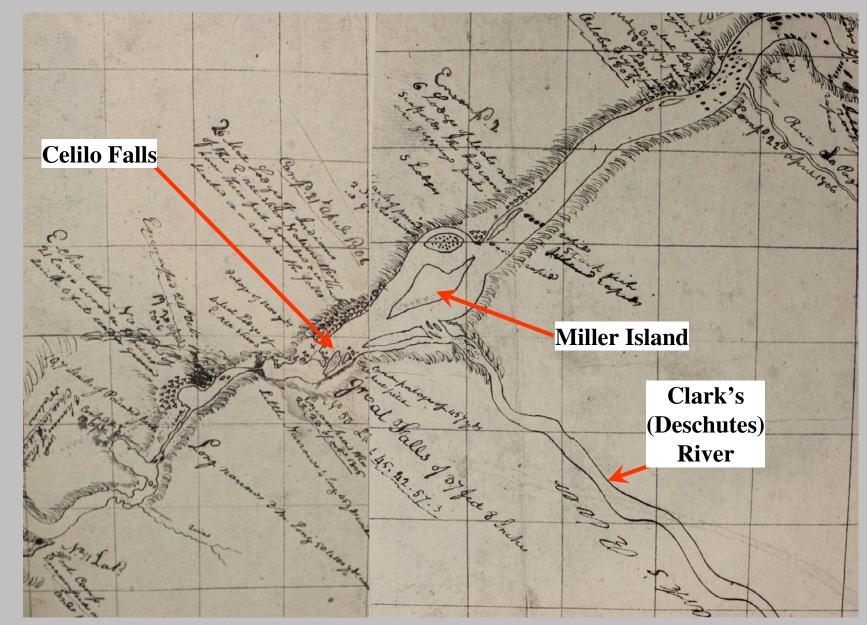


Canoe Camp Telephoto

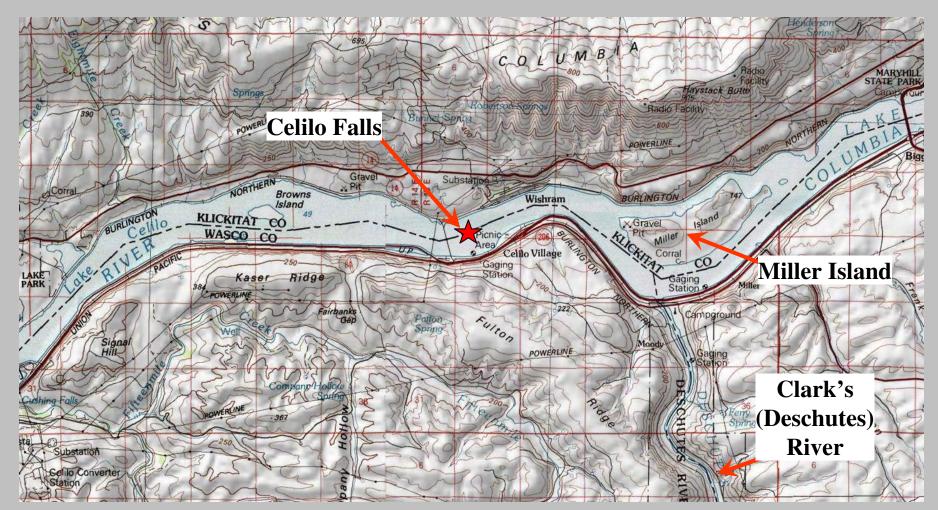
Surprises and Adventures

The 'official' version of the Lewis and Clark National Historic Trail, by the National Park Service, does not include numerous short land routes and explorations. The most glaring omission is the route of Sgt. Ordway from the Clearwater River, west to the Salmon River. He traveled over 130 miles roundtrip.

These other routes of the Lewis and Clark Trail will not be included unless Congress changes the Historic Trail Act.

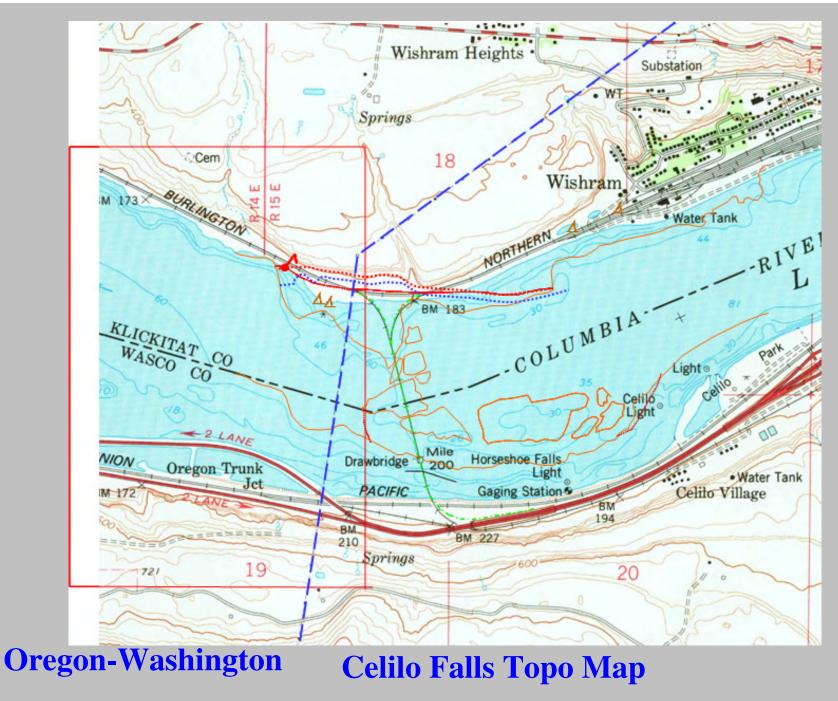


Oregon-Washington Celilo Falls Journal Map #1



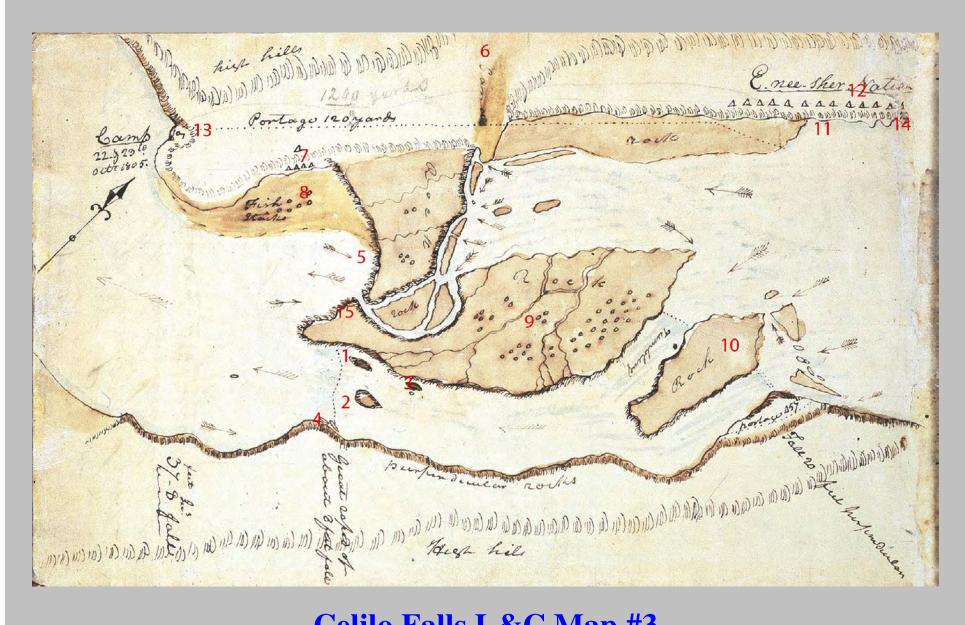
Oregon-Washington

Celilo Falls Topo Map

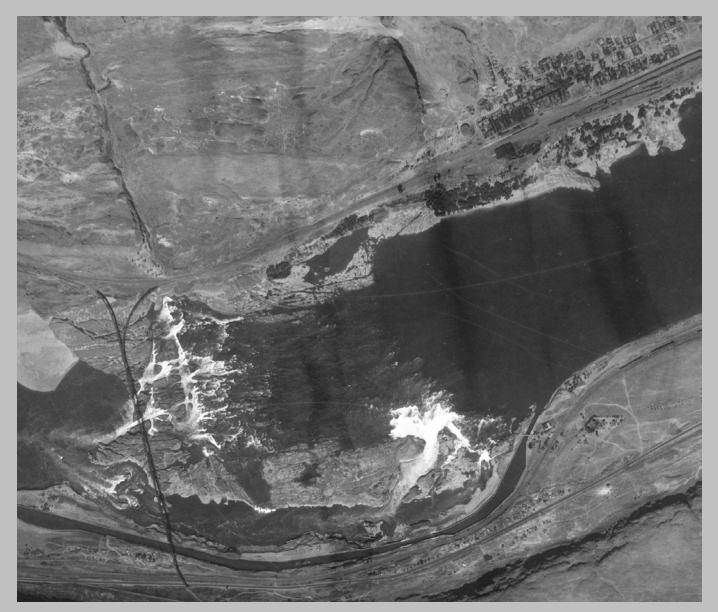




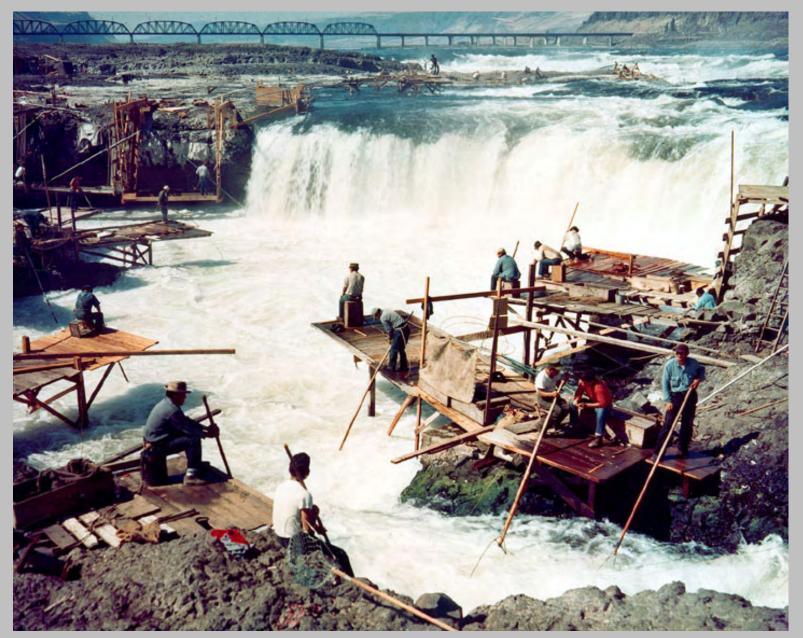
Celilo Falls Journal Map #2



Celilo Falls L&C Map #3



Celilo Falls, 1935



Celilo Falls Salmon Fishing, 1950s

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Celilo Falls (Salmon Fishing??), 2014

CELILO TREATY FISHING ACCESS SITE

U.S. GOVERMENT PROPERTY

United States Department of the Interior BUREAU OF INDIAN AFFAIRS Portland Area Office

FOR THE USE OF MEMBERS OF THE FOLLOWING TRIBES IN PURSUIT OF THEIR TREATY FISHING RIGHTS:

Nez Perce Tribe

Confederated Tribes of the Umatilla Reservation Confederated Tribes of the Warm Springs Reservation of Oregon Confederated Tribes and Bands of the Yakama Indian Nation

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Horace Axtel, Nez Perce Tribal Elder, 1996

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Questions?

Photo Gallery <u>3000+</u>

