

Appendix 16 - Wetland Delineation Report



South Dakota Wetland Delineation Report

Beadle, Brookings, Brown, Clark, Codington,
Davison, Edmunds, Grant, Hamlin, Hand,
Hyde, Kingsbury, Lake, Lincoln, McCook,
McPherson, Miner, Minnehaha, Spink, Sully,
Sanborn, Turner, Union Counties, South
Dakota

Project Name:

SCS Carbon Transport LLC
Midwest Carbon Express Project

Revision History

REVISION	DATE	REVISION DESCRIPTION	PREPARED BY:	REVIEWED BY:	APPROVED BY:
1	11/11/2024	Final Draft	Ryan Coleman	Jon Schmidt	Jason Zoller

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1 Introduction

SCS Carbon Transport, LLC (SCS) retained EXP Energy Services, Inc. (EXP) and other contractors to conduct environmental surveys for the Midwest Carbon Express Project (MCE Project), including wetland delineations, in the State of South Dakota. The MCE Project will capture carbon dioxide (CO₂) from industrial facilities across five states (i.e., Iowa, Minnesota, Nebraska, South Dakota, and North Dakota). The captured CO₂ will be compressed, dehydrated, and cooled to form CO₂ in a dense phase for transportation via pipeline to North Dakota to be permanently sequestered within deep underground geologic formations. The planned pipelines have diameters ranging from 4 to 24 inches.

The entirety of the MCE Project facilities within South Dakota are located within the jurisdictional boundary of the U.S. Army Corps of Engineers (USACE) – Omaha District. The information included herein pertains only to the portions of the Project facilities located within the State of South Dakota (hereafter referred to as the “Project”) that fall under the jurisdiction of the South Dakota Public Utilities Commission (SDPUC).

The wetland delineation performed by SCS included the identification and recording of physical features that may be considered “waters of the United States,” as defined by the USACE. “Waters of the United States” includes most wetlands, rivers, creeks, streams, lakes, tributaries, etc. This report summarizes the results of the wetland delineations within the Environmental Survey Corridor (ESC) and will be utilized to determine impacts to potentially jurisdictional “waters of the United States.” The ESC is a corridor 300-feet-wide encompassing 25,523.99 acres within the USACE, Omaha District, in South Dakota.

2 Methodology

2.1 Preliminary Data Gathering

Prior to visiting the ESC, a resource review was conducted on available background site information including current and historic aerial photography, U.S. Fish and Wildlife Service National Wetlands Inventory (NWI) data, U.S. Geological Survey (USGS) National Hydrography Dataset (NHD), U.S. Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) Web Soil Survey, and USGS 7.5-minute topographic quadrangle maps.

2.2 Identification of Potential Waters of the United States

Wetland delineations were conducted in accordance with the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Great Plains Region* (Version 2.0) (USACE, 2010) and the routine determination guidelines provided in the USACE *Wetland Delineation Manual* (Technical Report Y-87-1) (USACE, 1987). According to the *Wetland Delineation Manual*, an area is a wetland if positive indicators for the three mandatory wetland criteria are identified in a given area, with special exceptions. These criteria include the presence of hydrophytic vegetation, wetland hydrology, and hydric soils. Identification of dominant vegetative species and the associated wetland indicator status (as designated by the USACE *National Wetland Plant List*), dictates the presence of hydrophytic vegetation. A small pit is dug to evaluate soils within each wetland and surrounding upland area to determine if hydric soils are

present. Location, inundation, saturation, and other physical indicators suggesting the presence of water are used to determine wetland hydrology at a site.

Waterbodies (e.g., creeks, streams, etc.) are typically identified by the presence of an ordinary high-water mark (OHWM). The OHWMs are established by physical characteristics such as “a clear, natural line impressed on the bank, shelving, changes in the character of soil, destruction of terrestrial vegetation, the presence of litter and debris, or other appropriate means that consider the characteristics of the surrounding areas (USACE, 1987).” Manmade ponds, lakes, and other bodies of open water that may not have an OHWM were also included in this category. If present, on-site streams, open waters, and wetlands were characterized and the boundaries were delineated by wetland biologists.

2.3 Naming Scheme

The wetland biologists utilized a unique naming scheme to identify wetlands and waterbody features. The naming scheme consisted of a feature type abbreviation (W for wetland, U for uplands, and S for waterbodies), company/team ID (2001, 2002, 2003, etc.), county code (e.g., MC for McIntosh County), and feature ID number. For example, a wetland location would be labeled W2001MC001, an upland would be U2001MC001, and a waterbody would be S2001MC001. For multitype wetlands, a suffix with the vegetation cover type was added to the wetland name, such as palustrine forested (PFO), palustrine scrub-shrub (PSS), or palustrine emergent (PEM) (e.g., W2001MP001_PEM).

A separate naming scheme was utilized for wetland and waterbody features which were identified via desktop analysis. Wetland features were labeled using a nomenclature that includes a feature type (W for wetlands, U for uplands, S for waterbodies), number code for company identification (2), county code (e.g., MC for McIntosh County), feature number/ID, and “_DT” to denote that the feature was generated at a workstation and not surveyed in the field. For example, a desktop wetland location would be labeled W_2_MC_01_DT.

2.4 Data Points/Soil Stations

Site conditions were documented through the use of data point locations, known as soil stations. Data sheets were completed for each soil station documenting the hydrology, vegetation, and soils at each location. Soil stations were recorded where changes in vegetation communities were observed to document the differences between wetland and upland areas (i.e., a soil station would be recorded in each wetland as well as the adjacent upland). A unique naming scheme that includes the survey team number (2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009) was utilized to identify soil stations within the ESC. Soil stations were named by using either the feature name (see above) followed by an upland or wetland distinction or by a unique consecutive number preceded by an upland distinction. For example, an upland soil station would be W2001MC001_UP (if associated with a wetland feature) or U2001MC001.

All data points were collected using Environmental Systems Research Institute’s FieldMaps software on an iPhone XR equipped with a Trimble R1 GPS wireless Bluetooth receiver to geographically reference features, such as data points and wetland boundaries, identified during the field survey. These units have real-time and post-processed sub-meter accuracy. Geographic Information System software was used to analyze collected features, calculate the extent of the delineated areas, and generate the attached mapping.

2.5 Aerial Interpretation/Delineation

To date, wetland delineation field surveys have been completed for approximately 49.27% percent of the ESC. For areas not field surveyed within the ESC, a desktop review was performed utilizing the following data sources:

- USGS 7.5 topographic quadrangle maps (USGS, 1982);
- LiDAR data,
- NWI data;
- USDA NRCS soils maps (USDA, 2020);
- National Hydrography Dataset; and
- Google Earth historical aerial photography.

The USGS topographic maps and NWI maps were used to identify any potential waterbodies and/or wetlands that have been mapped by either of these sources. The NRCS soils maps were used to identify any hydric soils located within the survey corridor. Aerial photography was used to compare photographic signatures with areas that were pedestrian surveyed and to look for photographic signatures in areas not yet surveyed that are consistent with wetlands in the region.

A summary of the wetland and waterbody acreages within the ESC determined by field survey and by desktop analysis is presented in **Table 1**. The feature locations and additional information are included in **Appendix A** and **Appendix B**.

Table 1. Area of Desktop Review and Field Surveys within Environmental Survey Corridor – South Dakota

County	Total Wetland and Waterbody Acreage ¹	Acreage of Wetlands and Waterbodies Identified by Desktop Analysis	Acreage of Wetlands and Waterbodies Identified by Field Survey	Percentage of Wetland and Waterbody Acreage Identified by Desktop Analysis
Beadle	108.40	11.67	96.73	10.76%
Brookings	69.41	69.41	--	100%
Brown	202.35	180.33	22.02	89.12%
Clark	61.11	2.37	58.74	3.88%
Codington	93.53	56.90	36.63	60.84%
Davison	31.85	31.85	--	100%
Edmunds	130.82	61.20	69.62	46.78%
Grant	57.18	57.18	--	100%
Hamlin	44.78	2.63	42.15	5.87%
Hand	88.88	1.98	86.90	2.23%

Table 1. Area of Desktop Review and Field Surveys within Environmental Survey Corridor – South Dakota

County	Total Wetland and Waterbody Acreage ¹	Acreage of Wetlands and Waterbodies Identified by Desktop Analysis	Acreage of Wetlands and Waterbodies Identified by Field Survey	Percentage of Wetland and Waterbody Acreage Identified by Desktop Analysis
Hyde	41.08	21.42	19.66	52.14%
Kingsbury	111.93	89.54	22.39	80.00%
Lake	78.80	55.36	23.44	70.25%
Lincoln	159.04	150.21	8.83	94.45%
McCook	10.82	--	10.82	0%
McPherson	140.02	126.26	13.76	90.17%
Miner	85.90	70.11	15.79	81.62%
Minnehaha	76.00	35.17	40.83	46.28%
Sanborn	65.47	65.47	--	100%
Spink	233.33	145.82	87.51	62.50%
Sully	6.42	0.12	6.30	1.87%
Turner	50.33	48.09	2.24	95.55%
Union	0.31	0.31	--	100%
Totals	1,947.76	1,283.40	664.36	60.62%

¹Acreages include wetlands and waterbodies defined within the 300-foot Environmental Survey Corridor and do not reflect project impacts to any wetlands or waterbodies.

3 Conditions Documented at the Project Site

Wetland biologists conducted the wetland and waterbody delineation and desktop review of the 25,523.99-acre ESC within South Dakota from August through November 2021, March through July 2022, May through September 2023, and August through October of 2024. Of the 25,523.99 acres, 23,576.22 acres are uplands, 1,845.72 acres are PEM wetlands, 4.98 acres are PSS wetlands, 6.87 acres are PFO wetlands, and 89.20 acres are waterbodies. Land use in the ESC primarily consists of tame or planted grasslands, prairie habitat, active agricultural land, hay fields, fallow agricultural land, wetlands, and forest. A summary of the vegetation, soils, and hydrology observed in the ESC during field surveys is presented below.

3.1 Vegetation

The dominant vegetation species observed in each vegetative community present within the ESC are presented below. Descriptions and dominant vegetation for each land use type are included.

3.1.1 Uplands

Active agricultural land is comprised of areas that exhibit planted crops or actively (recently) disked fields. Dominant vegetation consisted of Canadian thistle (*Cirsium arvense*), soybean (*Glycine max*), corn (*Zea mays*), alfalfa (*Medicago sativa*), orchard grass (*Dactylis glomerata*), broad-leaf Cattail (*Typha latifolia*), creeping wildrye (*Elymus repens*), cultivated radish (*Raphanus sativus*), common wheat (*Triticum x aestivum*), and horseradish (*Armoracia rusticana*).

Tame or planted grasslands consist of tame pastures of cultivated fields planted with introduced (non-native) grass and legume species or cultivars with the multiple purposes of providing livestock grazing and foraging. Dominant vegetation consists of smooth brome (*Bromus inermis*), Kentucky bluegrass (*Poa pratensis*), big bluestem (*Andropogon gerardii*), reed canarygrass (*Phalaris arundinacea*), yellow bristle grass (*Setaria pumila*), creeping wild rye, wavy-leaf thistle (*Cirsium undulatum*), broad-leaf cattail, buffalograss (*Bouteloua dactyloides*), perennial ryegrass (*Lolium perenne*), crested wheatgrass (*Agropyron cristatum*), needleleaf sedge (*Carex duriuscula*), blue grama (*Bouteloua gracilis*), common dandelion (*Taraxacum officinale*), slender wildrye (*Elymus trachycaulus*), alfalfa, and perennial ragweed (*Ambrosia psilostachya*).

Prairie habitat consists of open land with a diverse mix of grass species. These include tall grass, mixed grass, and short grass prairie types. Dominant vegetation consists of slender wildrye, smooth oxeye (*Heliopsis helianthoides*), field sow-thistle (*Sonchus arvensis*), stiff goldenrod (*Solidago rigida*), big bluestem, Canadian thistle, Kentucky bluegrass, Canadian goldenrod (*Solidago canadensis*), fox-tail barley (*Hordeum jubatum*), smooth brome, western-wheat grass (*Pascopyrum smithii*), velvetleaf (*Abutilon theophrasti*), yellow bristlegrass, buffalograss, white sagebrush (*Artemisia ludoviciana*), little false bluestem (*Schizachyrium scoparium*), porcupine grass (*Stipa spartea*), needle and thread (*Stipa comata*), western snowberry (*Symphoricarpos occidentalis*), careless weed (*Amaranthus palmeri*), prairie junegrass (*Koeleria nitida*), common dandelion, white heath aster (*Symphyotrichum ericoides*), curlycup gumweed (*Grindelia squarrosa*), intermediate wheatgrass (*Agropyron intermedium*), annual ragweed (*Ambrosia artemisiifolia*), yard knotweed (*Polygonum aviculare*), perennial ragweed, creeping wildrye, alfalfa, and prairie sunflower (*Helianthus petiolaris*).

Hay fields are similar to other grasslands; however, hay fields showed evidence of improvement and bailing. Dominant vegetation consists of Kentucky bluegrass, smooth brome, alfalfa, oat (*Avena sativa*), fox-tail barley, reed canarygrass, red-root (*Amaranthus retroflexus*), creeping wildrye, tall false ryegrass (*Schedeonorus arundinaceus*), orchardgrass, common dandelion, and blue grama.

Forests within the Project area are characterized as hardwood forests. Dominant vegetation consisted of Maximilian sunflower (*Helianthus maximiliani*), golden currant (*Ribes aureum*), reed canarygrass, white panicked American-aster (*Symphyotrichum lanceolatum*), boxelder (*Acer negundo*), common motherwort (*Leonurus cardiaca*), stinging nettle (*Urtica dioica*), green ash (*Fraxinus pennsylvanica*), smooth brome, eastern red-cedar (*Juniperus virginiana*), European buckthorn (*Rhamnus cathartica*), thicket-creeper (*Parthenocissus inserta*), American elm (*Ulmus americana*), and Siberian elm (*Ulmus pumila*).

Fallow agricultural land is comprised of areas where crop rows are present, but no cultivated vegetation was observed at the time of survey. This method is used to restore the land's fertility as part of a crop rotation or to avoid surplus production. These areas may be heavily vegetated, but without crop

yield. Dominant vegetation consisted of black medick (*Medicago lupulina*), curly dock (*Rumex crispus*), absinthium (*Artemisia absinthium*), alfalfa, red-root, soybean, cereal rye (*Secale cereale*), careless weed, barnyardgrass (*Echinochloa crus-galli*), Mexican-fireweed (*Bassia scoparia*), lamb's-quarters (*Chenopodium album*), creeping wildrye, Kentucky bluegrass and yellow bristlegrass.

3.1.2 Wetlands

Dominant vegetation associated with wetlands is categorized by wetland type, including PEM, PSS, and PFO. The dominant vegetative species for each wetland type observed within the ESC are listed in **Table 2** attached.

3.2 Soils

According to the NRCS Web Soil Survey, 903 soil map units are located within the ESC. Approximately 23,637.15 acres and 1,861.08 acres of the ESC are comprised of non-hydric and hydric soils, respectively. The remaining acreage of the ESC is comprised of map units identified by the NRCS as null, unevaluated, or urban.

3.3 Hydrology

The ESC is located within 17 watersheds: Upper Lake Oahe watershed (Hydrologic Unit Code [HUC] 8: 10130102, Lower Lake Oahe watershed (HUC 8: 10130105), West Missouri Coteau watershed (HUC 8: 10130106), Medicine Knoll watershed (HUC 8: 10140103), Upper James watershed (HUC 8: 10160003), Elm watershed (HUC 8: 10160004), Mud watershed (HUC 8: 10160005), Middle James watershed (HUC 8: 10160006), Snake watershed (HUC 8: 10160008), Turtle watershed (HUC 8: 10160009), Lower James watershed (HUC 8: 10160011), Vermillion watershed (HUC 8: 10170102), South Big Sioux Coteau watershed (HUC 8: 10170103), Middle Big Sioux Coteau watershed (HUC 8: 10170201), Upper Big Sioux watershed (HUC 8: 10170202), Lower Big Sioux watershed (HUC 8: 10170203), and Upper Minnesota (HUC 8: 07020001).

The following 14 primary hydrology indicators were observed within delineated wetlands found in the ESC or during desktop assessments: surface water, high water table, saturation, water marks, aquatic fauna, iron deposits, inundation visible on aerial imagery, hydrogen sulfide odor, oxidized rhizospheres on living roots, presence of reduced iron, drift deposits, algal mat or crust, thin muck surface, and water-stained leaves. The following six secondary hydrology indicators were observed within delineated wetlands found in the Project survey area or in desktop assessment: drainage patterns, surface soil cracks, sparsely vegetated concave surface, saturation visible on aerial imagery, geomorphic position, and FAC-neutral test. Additionally, six primary hydrology indicators were observed within uplands found in the Project survey area or in desk-top assessment, including: surface water, high water table, saturation, inundation visible on aerial imagery, aquatic fauna, and thin muck surface; and four secondary indicators were observed within uplands, including: surface soil cracks, saturation visible on aerial imagery, geomorphic position, and FAC-neutral test.

4 Waters of the United States Summary

4.1 Wetlands

Wetland biologists identified 2,495 locations within the ESC that exhibited positive indicators for the three required wetland criteria, as defined by the USACE, or exhibited these characteristics based on desktop review. Of the 2,495 wetland locations, 2,447 were classified as PEM, 16 were classified as PSS, and 32 were classified as PFO. The field delineated wetlands encompass 664.36 acres and the desktop delineated wetlands encompass 1,283.40 acres within the ESC as shown in **Table 1**. A crossing table detailing feature ID, type, acreage, and location of wetlands within the ESC is presented in **Appendix A**.

4.2 Waterbodies

Wetland biologists identified 427 streams and 70 open waters within the ESC by field survey and desktop review. Of the 427 streams identified, 259 were classified as ephemeral, 101 were classified as intermittent, and 67 were classified as perennial. The 427 streams comprise 58.47 acres within the ESC. Seventy open water features were identified by wetland biologists. The 70 open water features comprise 30.73 acres within the ESC. A crossing table detailing feature ID, type, acreage, and location of waterbodies identified within the ESC are presented in **Appendix B**.

5 Conclusions

Wetland biologists conducted the wetland and waterbody delineation and desktop review of the 25,523.99-acre ESC from March through November 2021, March through July 2022, May through September 2023, and August through October of 2024. A total of 2,495 locations within the ESC exhibit positive indicators for the three required wetland criteria, as defined by the USACE, based on field surveys or desktop reviews. Of the 2,495 wetland locations, 2,447 were classified as PEM, 16 were classified as PSS, and 32 were classified as PFO. The field delineated wetlands encompass 664.36 acres and the desktop delineated wetlands encompass 1,283.40 acres within the ESC.

Wetland biologists identified 427 streams and 70 open waters, as defined by the USACE, within the ESC via field surveys and desktop reviews. Of the 427 streams identified, 259 were classified as ephemeral, 101 were classified as intermittent, and 67 were classified as perennial. Collectively, the waterbodies encompassed 89.20 acres within the ESC.

6 References

- U.S. Army Corps of Engineers. 2010. Regional Supplement to the Corps of Engineers Wetlands Delineation Manual: Great Plains Region. Version 2.0. U.S. Army Engineers Research and Development Center, Vicksburg, MS
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- U.S. Department of Agriculture - Natural Resources Conservation Service. 2020. Web Soil Survey. <http://websoilsurvey.nrcs.usda.gov>. Accessed July 2022.
- U.S. Geological Survey. 1993. 7.5-Minute Topographic Quadrangle Map.



**Table 2. Dominant Wetland Vegetation within
Environmental Survey Corridor - South Dakota**

Common Name	Scientific Name
Palustrine Emergent (PEM) Wetlands	
absinthium	<i>Artemisia absinthium</i>
alkali cordgrass	<i>Spartina gracilis</i>
American sloughgrass	<i>Beckmannia syzigachne</i>
annual ragweed	<i>Ambrosia artemisiifolia</i>
barnyardgrass	<i>Echinochloa crus-galli</i>
bearded sprangletop	<i>Leptochloa fusca</i>
bermudagrass	<i>Cynodon dactylon</i>
biennial wormwood	<i>Artemisia biennis</i>
blunt spikerush	<i>Eleocharis obtusa</i>
boxelder	<i>Acer negundo</i>
broadfruit bur-reed	<i>Sparganium eurycarpum</i>
broadleaf cattail	<i>Typha latifolia</i>
brown flatsedge	<i>Cyperus fuscus</i>
bull thistle	<i>Cirsium vulgare</i>
burningbush	<i>Bassia scoparia</i>
Canadian horseweed	<i>Erigeron canadensis</i>
Canadian thistle	<i>Cirsium arvense</i>
common duckweed	<i>Lemna minor</i>
common plantain	<i>Plantago major</i>
common reed	<i>Phragmites australis</i>
common sheep sorrel	<i>Rumex acetosella</i>
common snowberry	<i>Symphoricarpos albus</i>
common spikerush	<i>Eleocharis palustris</i>
common squarerush	<i>Schoenoplectus pungens</i>
common sunflower	<i>Helianthus annuus</i>
corn	<i>Zea mays</i>
crack willow	<i>Salix X fragilis</i>
creeping bentgrass	<i>Agrostis stolonifera</i>
creeping meadow foxtail	<i>Alopecurus arundinaceus</i>
perennial ragweed	<i>Ambrosia psilostachya</i>
curly dock	<i>Rumex crispus</i>
curlycup gumweed	<i>Grindelia squarrosa</i>
curlytop knotweed	<i>Persicaria lapathifolia</i>



**Table 2. Dominant Wetland Vegetation within
Environmental Survey Corridor - South Dakota**

Common Name	Scientific Name
eastern cottonwood	<i>Populus deltoides</i>
Emory's sedge	<i>Carex emoryi</i>
field sowthistle	<i>Sonchus arvensis</i>
fowl bluegrass	<i>Poa palustris</i>
fox sedge	<i>Carex vulpinoidea</i>
foxtail barley	<i>Hordeum jubatum</i>
fragrant flatsedge	<i>Cyperus odoratus</i>
green ash	<i>Fraxinus pennsylvanica</i>
hardstem bulrush	<i>Schoenoplectus acutus</i>
hybrid cattail	<i>Typha X glauca</i>
Indiangrass	<i>Sorghastrum nutans</i>
Indianhemp	<i>Apocynum cannabinum</i>
inland rush	<i>Juncus interior</i>
Kentucky bluegrass	<i>Poa pratensis</i>
lambquarters	<i>Chenopodium album</i>
little hogweed	<i>Portulaca oleracea</i>
longroot smartweed	<i>Persicaria amphibia</i>
marsh bristlegrass	<i>Setaria parviflora</i>
marshpepper knotweed	<i>Persicaria hydropiper</i>
mat amaranth	<i>Amaranthus blitoides</i>
meadow fescue	<i>Schedonorus pratensis</i>
Mexican dock	<i>Rumex triangulivalvis</i>
narrowleaf burreed	<i>Sparganium emersum</i>
narrowleaf cattail	<i>Typha angustifolia</i>
narrowleaf dock	<i>Rumex stenophyllus</i>
narrowleaf willow	<i>Salix exigua</i>
needle and thread	<i>Stipa comata</i>
needle spikerush	<i>Eleocharis acicularis</i>
Northwest Territory sedge	<i>Carex utriculata</i>
Norwegian cinquefoil	<i>Potentilla norvegica</i>
peachleaf willow	<i>Salix amygdaloides</i>
Pennsylvania smartweed	<i>Persicaria pensylvanica</i>
perennial ryegrass	<i>Lolium perenne</i>
prairie cordgrass	<i>Spartina pectinata</i>



**Table 2. Dominant Wetland Vegetation within
Environmental Survey Corridor - South Dakota**

Common Name	Scientific Name
prostrate knotweed	<i>Polygonum aviculare</i>
prostrate pigweed	<i>Amaranthus albus</i>
quackgrass	<i>Elymus repens</i>
red goosefoot	<i>Chenopodium rubrum</i>
redroot amaranth	<i>Amaranthus retroflexus</i>
redtop	<i>Agrostis gigantea</i>
reed canarygrass	<i>Phalaris arundinacea</i>
rice cutgrass	<i>Leersia oryzoides</i>
river bulrush	<i>Schoenoplectus fluviatilis</i>
rough cocklebur	<i>Xanthium strumarium</i>
roughfruit amaranth	<i>Amaranthus tuberculatus</i>
saltgrass	<i>Distichlis spicata</i>
sand spikerush	<i>Eleocharis montevidensis</i>
scouringrush horsetail	<i>Equisetum hyemale</i>
shining willow	<i>Salix lucida</i>
shortbeak sedge	<i>Carex brevior</i>
showy milkweed	<i>Asclepias speciosa</i>
Siberian elm	<i>Ulmus pumila</i>
sideoats grama	<i>Bouteloua curtipendula</i>
smooth brome	<i>Bromus inermis</i>
smoothcone sedge	<i>Carex laeviconica</i>
snow on the mountain	<i>Euphorbia marginata</i>
softstem bulrush	<i>Schoenoplectus tabernaemontani</i>
soybean	<i>Glycine max</i>
spotted ladythumb	<i>Persicaria maculosa</i>
Suckley's endolepis	<i>Atriplex dioica</i>
switchgrass	<i>Panicum virgatum</i>
tall blue lettuce	<i>Lactuca biennis</i>
thickspike wheatgrass	<i>Elymus lanceolatus</i>
triangle orache	<i>Atriplex prostrata</i>
uptight sedge	<i>Carex stricta</i>
wavyleaf thistle	<i>Cirsium undulatum</i>
wheat sedge	<i>Carex atherodes</i>
white panicle aster	<i>Symphyotrichum lanceolatum</i>



Table 2. Dominant Wetland Vegetation within Environmental Survey Corridor - South Dakota	
Common Name	Scientific Name
white willow	<i>Salix alba</i>
wild mint	<i>Mentha arvensis</i>
witchgrass	<i>Panicum capillare</i>
woolly sedge	<i>Carex pellita</i>
yellow foxtail	<i>Setaria pumila</i>
yellow nutsedge	<i>Cyperus esculentus</i>
Palustrine Scrub-Shrub (PSS) Wetlands	
broadleaf cattail	<i>Typha latifolia</i>
common lilac	<i>Syringa vulgaris</i>
narrowleaf willow	<i>Salix interior</i>
Pennsylvania smartweed	<i>Persicaria pensylvanica</i>
reed canarygrass	<i>Phalaris arundinacea</i>
white willow	<i>Salix alba</i>
Palustrine Forested (PFO) Wetlands	
bluejoint	<i>Calamagrostis canadensis</i>
common buckthorn	<i>Rhamnus cathartica</i>
crack willow	<i>Salix X fragilis</i>
eastern cottonwood	<i>Populus deltoides</i>
foxtail barley	<i>Hordeum jubatum</i>
green ash	<i>Fraxinus pennsylvanica</i>
Lombardy poplar	<i>Populus nigra</i>
narrowleaf dock	<i>Rumex stenophyllus</i>
peachleaf willow	<i>Salix amygdaloides</i>
Pennsylvania smartweed	<i>Persicaria pensylvanica</i>
reed canarygrass	<i>Phalaris arundinacea</i>
white willow	<i>Salix alba</i>
woolly sedge	<i>Carex pellita</i>

Appendix A – Wetland Crossing Table

Wetland Crossing Table												
County	Route ID	Feature ID	Feature Type	Feature Name	Latitude	Longitude	HUC 8 Watershed Name	HUC 8 Watershed No.	Survey or Desktop	Approx. MP	ESC Crossing Length (ft)	ESC Total Acres
Beadle	SDM-104	W2015BE029	PEM	--	44.528789	-97.853723	Middle James	10160006	Survey	148.51	144.70	0.98
Beadle	SDM-104	W2015BE030	PEM	--	44.543986	-97.887114	Middle James	10160006	Survey	150.58	181.41	0.73
Beadle	SDM-104	W_9_BE_800_DT	PEM	--	44.544153	-97.886641	Middle James	10160006	Desktop	150.59	0.00	0.16
Beadle	SDM-104	W_9_BE_054_DT_USACE	PEM	--	44.549794	-97.893426	Middle James	10160006	Desktop	151.10	62.39	0.53
Beadle	SDM-104	W_9_BE_054_DT_USACE	PEM	--	44.550507	-97.893085	Middle James	10160006	Desktop	151.12	0.00	0.03
Beadle	SDM-104	W2014BE059	PEM	--	44.559435	-97.917096	Middle James	10160006	Survey	152.59	6.41	0.03
Beadle	SDM-105	W2014BE066	PEM	--	44.562591	-97.922714	Middle James	10160006	Survey	0.34	267.23	1.73
Beadle	SDM-105	W2003BE092	PEM	--	44.569267	-97.933086	Middle James	10160006	Survey	1.06	1,094.93	6.32
Beadle	SDM-105	W2003BE091	PEM	--	44.570395	-97.935239	Middle James	10160006	Survey	1.16	0.00	0.00
Beadle	SDM-105	W2003BE092	PEM	--	44.571182	-97.934789	Middle James	10160006	Survey	1.17	0.00	0.03
Beadle	SDM-105	W2003BE091	PEM	--	44.571222	-97.935580	Middle James	10160006	Survey	1.21	251.28	1.42
Beadle	SDM-105	W2014BE067	PEM	--	44.574991	-97.939204	Middle James	10160006	Survey	1.53	0.00	0.15
Beadle	SDM-105	W_10_BE_004_DT	PEM	--	44.585650	-97.954272	Middle James	10160006	Desktop	2.64	0.00	0.03
Beadle	SDM-105	W2022BE023	PEM	--	44.587073	-97.962570	Middle James	10160006	Survey	3.06	28.93	0.14
Beadle	SDM-105	W2022BE023	PEM	--	44.586881	-97.962654	Middle James	10160006	Survey	3.07	13.12	0.05
Beadle	SDM-105	W2022BE023	PEM	--	44.587455	-97.962548	Middle James	10160006	Survey	3.07	0.00	0.16
Beadle	SDM-105	W2022BE026	PEM	--	44.588237	-97.966010	Middle James	10160006	Survey	3.31	0.00	0.06
Beadle	SDM-105	W2022BE025	PEM	--	44.598947	-97.978186	Middle James	10160006	Survey	4.29	4.76	0.05
Beadle	SDM-105	W2022BE025	PEM	--	44.598975	-97.978762	Middle James	10160006	Survey	4.31	162.40	0.93
Beadle	SDM-105	W2022BE024	PEM	--	44.599806	-97.988158	Middle James	10160006	Survey	4.81	89.66	0.40
Beadle	SDM-105	W2008BE002	PEM	--	44.613700	-97.994048	Middle James	10160006	Survey	5.85	37.28	0.32
Beadle	SDM-105	W2008BE003	PEM	--	44.614618	-97.994555	Middle James	10160006	Survey	5.91	59.15	0.16
Beadle	SDM-105	W_2_BE_032_DT	PEM	--	44.620804	-97.996259	Middle James	10160006	Desktop	6.37	0.00	0.38
Beadle	SDM-105	W_2_BE_030_DT	PEM	--	44.621889	-97.997616	Middle James	10160006	Desktop	6.43	0.00	0.08
Beadle	SDM-105	W3112BE074	PEM	--	44.623091	-97.997987	Middle James	10160006	Survey	6.56	20.76	0.10
Beadle	SDM-105	W3112BE075	PEM	--	44.624132	-98.000819	Middle James	10160006	Survey	6.70	0.00	0.46
Beadle	SDM-105	W2023SP095	PEM	--	44.632556	-98.007804	Middle James	10160006	Survey	7.45	492.43	3.10
Beadle	SDT-207	W_2_BE_077_DT	PEM	--	44.375259	-98.254718	Middle James	10160006	Desktop	0.00	0.00	0.01
Beadle	SDT-207	W2005BE161	PEM	--	44.379673	-98.253143	Middle James	10160006	Survey	0.19	22.08	0.16

Wetland Crossing Table												
County	Route ID	Feature ID	Feature Type	Feature Name	Latitude	Longitude	HUC 8 Watershed Name	HUC 8 Watershed No.	Survey or Desktop	Approx. MP	ESC Crossing Length (ft)	ESC Total Acres
Beadle	SDT-207	W2005BE161	PEM	--	44.379827	-98.253157	Middle James	10160006	Survey	0.19	32.15	0.25
Beadle	SDT-207	W2023BE178	PEM	--	44.384193	-98.255942	Middle James	10160006	Survey	0.57	0.00	0.45
Beadle	SDT-207	W2022BE060	PEM	--	44.397637	-98.261883	Middle James	10160006	Survey	1.71	136.84	1.19
Beadle	SDT-207	W_9_BE_001_DT	PEM	--	44.400469	-98.259752	Middle James	10160006	Desktop	1.93	0.00	0.00
Beadle	SDT-207	W2022BE059	PEM	--	44.400458	-98.258913	Middle James	10160006	Survey	1.97	231.09	1.55
Beadle	SDT-207	W2022BE058	PEM	--	44.401800	-98.256194	Middle James	10160006	Survey	2.12	819.95	4.19
Beadle	SDT-207	W2005BE162	PEM	--	44.404223	-98.254136	Middle James	10160006	Survey	2.35	336.66	1.68
Beadle	SDT-207	W2002BE304	PEM	--	44.409241	-98.253030	Middle James	10160006	Survey	2.74	0.00	0.02
Beadle	SDT-207	W2002BE304	PEM	--	44.409298	-98.252872	Middle James	10160006	Survey	2.75	0.00	0.00
Beadle	SDT-207	W2005BE166	PEM	--	44.410553	-98.251293	Middle James	10160006	Survey	2.84	61.70	0.87
Beadle	SDT-207	W2005BE167	PEM	--	44.411857	-98.250002	Middle James	10160006	Survey	2.99	152.24	1.74
Beadle	SDT-207	W2002BE308	PEM	--	44.412890	-98.248365	Middle James	10160006	Survey	3.08	122.26	0.79
Beadle	SDT-207	W2002BE309	PEM	--	44.413759	-98.246618	Middle James	10160006	Survey	3.19	531.84	3.39
Beadle	SDT-207	W_9_BE_002_DT	PEM	--	44.414802	-98.245687	Middle James	10160006	Desktop	3.28	0.00	0.14
Beadle	SDT-207	W2005BE151	PEM	--	44.415255	-98.244141	Middle James	10160006	Survey	3.32	1,120.44	6.30
Beadle	SDT-207	W2005BE152	PEM	--	44.416885	-98.242162	Middle James	10160006	Survey	3.50	0.00	0.57
Beadle	SDT-207	W2005BE153	PEM	--	44.418081	-98.239252	Middle James	10160006	Survey	3.68	15.12	0.46
Beadle	SDT-207	W2005BE154	PEM	--	44.419035	-98.229183	Middle James	10160006	Survey	4.19	0.00	0.37
Beadle	SDT-207	W_2_BE_406_DT	PEM	--	44.418946	-98.228997	Middle James	10160006	Desktop	4.23	0.00	0.03
Beadle	SDT-207	W2005BE155	PEM	--	44.419732	-98.228080	Middle James	10160006	Survey	4.25	0.00	0.06
Beadle	SDT-207	W2005BE155	PEM	--	44.419685	-98.227526	Middle James	10160006	Survey	4.30	37.59	0.55
Beadle	SDT-207	W2005BE155	PEM	--	44.419364	-98.226797	Middle James	10160006	Survey	4.31	91.38	0.49
Beadle	SDT-207	W2005BE155	PEM	--	44.419719	-98.226683	Middle James	10160006	Survey	4.32	0.00	0.02
Beadle	SDT-207	W_2_BE_405_DT	PEM	--	44.418949	-98.226544	Middle James	10160006	Desktop	4.33	0.00	0.02
Beadle	SDT-207	W_2_BE_405_DT	PEM	--	44.418948	-98.226314	Middle James	10160006	Desktop	4.34	0.00	0.01
Beadle	SDT-207	W_2_BE_404_DT	PEM	--	44.418951	-98.224895	Middle James	10160006	Desktop	4.42	0.00	0.05
Beadle	SDT-207	W2005BE156	PEM	--	44.419170	-98.224258	Middle James	10160006	Survey	4.43	68.33	0.83
Beadle	SDT-207	W2005BE157	PEM	--	44.420551	-98.221858	Middle James	10160006	Survey	4.60	687.49	2.92
Beadle	SDT-207	W2005BE158	PEM	--	44.421777	-98.221085	Middle James	10160006	Survey	4.70	95.50	0.26

Wetland Crossing Table												
County	Route ID	Feature ID	Feature Type	Feature Name	Latitude	Longitude	HUC 8 Watershed Name	HUC 8 Watershed No.	Survey or Desktop	Approx. MP	ESC Crossing Length (ft)	ESC Total Acres
Beadle	SDT-207	W_10_BE_001_DT	PEM	--	44.426976	-98.219757	Middle James	10160006	Desktop	5.04	1,349.81	5.74
Beadle	SDT-207	W_10_BE_002_DT	PEM	--	44.428949	-98.219634	Middle James	10160006	Desktop	5.21	198.55	1.25
Beadle	SDT-207	W2005BE160_PEM	PEM	--	44.430564	-98.217622	Middle James	10160006	Survey	5.56	2,529.16	16.03
Beadle	SDT-207	W2005BE160_PEM	PEM	--	44.433817	-98.216045	Middle James	10160006	Survey	5.66	0.00	0.00
Beadle	SDT-207	W2005BE160_PFO_B	PFO	--	44.433891	-98.215933	Middle James	10160006	Survey	5.68	0.00	0.25
Beadle	SDT-207	W2001BE146_PEM	PEM	--	44.435712	-98.215310	Middle James	10160006	Survey	5.84	553.68	2.00
Beadle	SDT-207	W2001BE146_PFO	PFO	--	44.436374	-98.215925	Middle James	10160006	Survey	5.84	0.00	0.00
Beadle	SDT-207	W2001BE146_PFO	PFO	--	44.436295	-98.215053	Middle James	10160006	Survey	5.85	324.85	1.55
Beadle	SDT-207	W2011BE017	PEM	--	44.436639	-98.213382	Middle James	10160006	Survey	5.92	350.79	1.10
Beadle	SDT-207	W2011BE018	PEM	--	44.438339	-98.210515	Middle James	10160006	Survey	6.14	0.00	0.10
Beadle	SDT-207	W2011BE019	PEM	--	44.438732	-98.208860	Middle James	10160006	Survey	6.22	588.37	2.95
Beadle	SDT-207	W2011BE020	PEM	--	44.439848	-98.200972	Middle James	10160006	Survey	6.61	0.00	0.21
Beadle	SDT-207	W2007BE055	PEM	--	44.461475	-98.153867	Middle James	10160006	Survey	9.53	0.00	0.01
Beadle	SDT-207	W2007BE056	PEM	--	44.461549	-98.153638	Middle James	10160006	Survey	9.55	0.00	0.02
Beadle	SDT-207	W_9_BE_055_DT_USACE	PEM	--	44.463466	-98.148237	Middle James	10160006	Desktop	9.84	86.85	0.57
Beadle	SDT-207	W2007BE057	PEM	--	44.466514	-98.138993	Middle James	10160006	Survey	10.34	0.00	0.13
Beadle	SDT-207	W2007BE058	PEM	--	44.467847	-98.133333	Middle James	10160006	Survey	10.63	38.16	0.40
Beadle	SDT-207	W2007BE058	PEM	--	44.468046	-98.133216	Middle James	10160006	Survey	10.65	167.66	0.85
Beadle	SDT-207	W3919BE353	PEM	--	44.471825	-98.124352	Middle James	10160006	Survey	11.16	0.00	0.29
Beadle	SDT-207	W2008BE001	PEM	--	44.476277	-98.112182	Middle James	10160006	Survey	11.84	0.00	0.14
Beadle	SDT-207	W2005BE150_PFO	PFO	--	44.482325	-98.092647	Middle James	10160006	Survey	12.89	0.00	0.13
Beadle	SDT-207	W2005BE150_PEM	PEM	--	44.482494	-98.092404	Middle James	10160006	Survey	12.90	0.00	0.29
Beadle	SDT-207	W_2_BE_289_DT	PEM	--	44.482630	-98.092388	Middle James	10160006	Desktop	12.90	0.00	0.20
Beadle	SDT-207	W2015BE190	PEM	--	44.490382	-98.072941	Middle James	10160006	Survey	14.03	0.00	0.03
Beadle	SDT-207	W_2_BE_022_DT	PEM	--	44.501001	-98.040493	Middle James	10160006	Desktop	15.86	0.00	0.05
Beadle	SDT-207	W2233BE009	PEM	--	44.504409	-98.027768	Middle James	10160006	Survey	16.53	0.00	0.04
Beadle	SDT-207	W2233BE010	PEM	--	44.506268	-98.022987	Middle James	10160006	Survey	16.82	72.41	0.53
Beadle	SDT-207	W2233BE011	PEM	--	44.509962	-98.017186	Middle James	10160006	Survey	17.18	56.94	0.44
Beadle	SDT-207	W2005BE145	PEM	--	44.521138	-98.000852	Middle James	10160006	Survey	18.33	121.62	0.68

Wetland Crossing Table												
County	Route ID	Feature ID	Feature Type	Feature Name	Latitude	Longitude	HUC 8 Watershed Name	HUC 8 Watershed No.	Survey or Desktop	Approx. MP	ESC Crossing Length (ft)	ESC Total Acres
Beadle	SDT-207	W2015BE152	PEM	--	44.525154	-97.992332	Middle James	10160006	Survey	18.84	54.02	0.16
Beadle	SDT-207	W2015BE153	PEM	--	44.526264	-97.990736	Middle James	10160006	Survey	18.95	0.00	0.12
Beadle	SDT-207	W2005BE147	PEM	--	44.535658	-97.968480	Middle James	10160006	Survey	20.23	0.00	0.00
Beadle	SDT-207	W2005BE147	PEM	--	44.535300	-97.968386	Middle James	10160006	Survey	20.23	170.63	0.60
Beadle	SDT-207	W2005BE146	PEM	--	44.535324	-97.966995	Middle James	10160006	Survey	20.29	0.00	0.05
Beadle	SDT-207	W2005BE146	PEM	--	44.535251	-97.967157	Middle James	10160006	Survey	20.30	0.00	0.05
Beadle	SDT-207	W2010BE068	PEM	--	44.540695	-97.959575	Middle James	10160006	Survey	20.83	21.11	0.68
Beadle	SDT-207	W2010BE069	PEM	--	44.542543	-97.956957	Middle James	10160006	Survey	21.00	134.08	0.36
Beadle	SDT-207	W2003BE096	PEM	--	44.558807	-97.948144	Middle James	10160006	Survey	22.25	22.97	0.38
Beadle	SDT-207	W2003BE095	PEM	--	44.559355	-97.947988	Middle James	10160006	Survey	22.28	39.33	0.14
Beadle	SDT-207	W_9_BE_999_DT	PEM	--	44.560311	-97.929073	Middle James	10160006	Desktop	23.22	286.73	2.36
Beadle	SDT-207	W2002BE315	PEM	--	44.559873	-97.928777	Middle James	10160006	Survey	23.27	0.00	0.07
Beadle	SDT-207	W2002BE314	PEM	--	44.559701	-97.925880	Middle James	10160006	Survey	23.38	0.00	0.06
Beadle	SDT-207	W2002BE314	PEM	--	44.559638	-97.925439	Middle James	10160006	Survey	23.40	0.00	0.05
Beadle	SDT-208	W2022BE064	PEM	--	44.559976	-97.870525	Middle James	10160006	Survey	50.14	0.00	0.15
Beadle	SDT-208	W2022BE063	PEM	--	44.559489	-97.871026	Middle James	10160006	Survey	50.15	572.47	1.04
Beadle	SDT-208	W2006BE127	PEM	--	44.558686	-97.876792	Middle James	10160006	Survey	50.47	6.99	0.15
Beadle	SDT-208	W2006BE128	PEM	--	44.558867	-97.886178	Middle James	10160006	Survey	50.97	0.00	0.08
Beadle	SDT-208	W2014BE055	PEM	--	44.558868	-97.886976	Middle James	10160006	Survey	50.99	0.00	0.03
Beadle	SDT-208	W2014BE056	PEM	--	44.558496	-97.888961	Middle James	10160006	Survey	51.09	269.31	1.21
Beadle	SDT-208	W2014BE057	PEM	--	44.558597	-97.893995	Middle James	10160006	Survey	51.35	36.35	0.42
Beadle	SDT-208	W2014BE058	PEM	--	44.558895	-97.896339	Middle James	10160006	Survey	51.44	0.00	0.03
Beadle	SDT-208	W2014BE054	PEM	--	44.558762	-97.901560	Middle James	10160006	Survey	51.71	0.00	0.16
Beadle	SDT-208	W2014BE053	PEM	--	44.558756	-97.904154	Middle James	10160006	Survey	51.83	62.78	0.38
Brookings	SDL-513	W_9_BO_026_DT	PEM	--	44.290815	-96.692972	Middle Big Sioux Coteau	10170202	Desktop	0.30	0.00	0.01
Brookings	SDL-513	W_9_BO_024_DT	PEM	--	44.284937	-96.699147	Middle Big Sioux Coteau	10170202	Desktop	0.82	0.00	0.18
Brookings	SDL-513	W_9_BO_022_DT	PEM	--	44.283085	-96.713464	Middle Big Sioux Coteau	10170202	Desktop	1.68	0.00	0.92
Brookings	SDL-513	W_9_BO_021_DT	PEM	--	44.281620	-96.712663	Middle Big Sioux Coteau	10170202	Desktop	1.72	0.00	0.53
Brookings	SDL-513	W_9_BO_020_DT	PEM	--	44.274472	-96.714130	Middle Big Sioux Coteau	10170202	Desktop	2.23	0.00	0.30

Wetland Crossing Table												
County	Route ID	Feature ID	Feature Type	Feature Name	Latitude	Longitude	HUC 8 Watershed Name	HUC 8 Watershed No.	Survey or Desktop	Approx. MP	ESC Crossing Length (ft)	ESC Total Acres
Brookings	SDL-513	W_9_BO_019_DT	PEM	--	44.271869	-96.715954	Middle Big Sioux Coteau	10170202	Desktop	2.44	0.00	0.04
Brookings	SDL-513	W_9_BO_018_DT	PEM	--	44.271272	-96.716236	Middle Big Sioux Coteau	10170202	Desktop	2.48	0.00	0.10
Brookings	SDL-513	W_9_BO_016_DT	PEM	--	44.262622	-96.716831	Middle Big Sioux Coteau	10170202	Desktop	3.01	2,106.94	10.76
Brookings	SDL-513	W_9_BO_027_DT	PEM	--	44.258652	-96.718096	Middle Big Sioux Coteau	10170202	Desktop	3.38	73.43	0.58
Brookings	SDL-513	W_9_BO_028_DT	PEM	--	44.258070	-96.719554	Middle Big Sioux Coteau	10170202	Desktop	3.48	187.41	1.46
Brookings	SDL-513	W_9_BO_029_DT	PEM	--	44.257039	-96.722850	Middle Big Sioux Coteau	10170202	Desktop	3.65	152.97	0.44
Brookings	SDL-513	W_9_BO_030_DT	PEM	--	44.256119	-96.724739	Middle Big Sioux Coteau	10170202	Desktop	3.74	249.77	0.73
Brookings	SDL-513	W_9_BO_030_DT	PEM	--	44.255938	-96.724267	Middle Big Sioux Coteau	10170202	Desktop	3.75	0.00	0.16
Brookings	SDL-513	W_9_BO_031_DT	PEM	--	44.256462	-96.725893	Middle Big Sioux Coteau	10170202	Desktop	3.80	0.00	0.14
Brookings	SDL-513	W_9_BO_032_DT	PEM	--	44.256203	-96.726479	Middle Big Sioux Coteau	10170202	Desktop	3.84	59.96	0.16
Brookings	SDL-513	W_9_BO_033_DT	PEM	--	44.255094	-96.728794	Middle Big Sioux Coteau	10170202	Desktop	3.98	152.75	0.90
Brookings	SDL-513	W_9_BO_034_DT	PEM	--	44.254490	-96.731275	Middle Big Sioux Coteau	10170202	Desktop	4.10	0.00	0.03
Brookings	SDL-513	W_9_BO_035_DT	PEM	--	44.252598	-96.732992	Middle Big Sioux Coteau	10170202	Desktop	4.27	0.00	0.31
Brookings	SDL-513	W_9_BO_036_DT	PEM	--	44.251817	-96.733465	Middle Big Sioux Coteau	10170202	Desktop	4.33	120.20	0.77
Brookings	SDL-513	W_9_BO_037_DT	PEM	--	44.248899	-96.739211	Middle Big Sioux Coteau	10170202	Desktop	4.68	322.26	1.54
Brookings	SDL-513	W_9_BO_038_DT	PEM	--	44.248165	-96.741161	Middle Big Sioux Coteau	10170202	Desktop	4.79	161.16	0.75
Brookings	SDL-513	W_9_BO_039_DT	PEM	--	44.246848	-96.747128	Middle Big Sioux Coteau	10170202	Desktop	5.10	20.11	0.10
Brookings	SDL-513	W_9_BO_040_DT	PEM	--	44.246460	-96.755661	Middle Big Sioux Coteau	10170202	Desktop	5.53	60.35	0.34
Brookings	SDL-513	W_9_BO_041_DT	PEM	--	44.240224	-96.769931	Middle Big Sioux Coteau	10170202	Desktop	6.41	87.31	0.42
Brookings	SDL-513	W_9_BO_042_DT	PEM	--	44.240079	-96.775339	Middle Big Sioux Coteau	10170202	Desktop	6.68	48.48	0.31
Brookings	SDL-513	W_9_BO_043_DT	PEM	--	44.240088	-96.777963	Middle Big Sioux Coteau	10170202	Desktop	6.81	115.30	0.84
Brookings	SDL-513	W_9_BO_044_DT	PEM	--	44.232997	-96.789155	Middle Big Sioux Coteau	10170202	Desktop	7.60	0.00	0.28
Brookings	SDL-513	W_9_BO_045_DT	PEM	--	44.232895	-96.790707	Middle Big Sioux Coteau	10170202	Desktop	7.66	0.00	0.03
Brookings	SDL-513	W_9_BO_046_DT	PEM	--	44.233162	-96.791921	Middle Big Sioux Coteau	10170202	Desktop	7.72	243.97	1.32
Brookings	SDL-513	W_9_BO_047_DT	PEM	--	44.233109	-96.794914	Middle Big Sioux Coteau	10170202	Desktop	7.87	367.48	2.51
Brookings	SDL-513	W_9_BO_048_DT	PEM	--	44.233123	-96.797673	Middle Big Sioux Coteau	10170202	Desktop	8.04	528.21	2.88
Brookings	SDL-513	W_9_BO_049_DT	PEM	--	44.232849	-96.804110	Middle Big Sioux Coteau	10170202	Desktop	8.32	67.17	0.47
Brookings	SDL-513	W_9_BO_050_DT	PEM	--	44.232803	-96.805280	Middle Big Sioux Coteau	10170202	Desktop	8.38	66.46	0.45
Brookings	SDL-513	W_9_BO_071_DT	PEM	--	44.232633	-96.811258	Middle Big Sioux Coteau	10170202	Desktop	8.68	135.82	0.48

Wetland Crossing Table												
County	Route ID	Feature ID	Feature Type	Feature Name	Latitude	Longitude	HUC 8 Watershed Name	HUC 8 Watershed No.	Survey or Desktop	Approx. MP	ESC Crossing Length (ft)	ESC Total Acres
Brookings	SDL-513	W_9_BO_070_DT	PEM	--	44.233016	-96.811618	Middle Big Sioux Coteau	10170202	Desktop	8.71	62.62	0.59
Brookings	SDL-513	W_9_BO_073_DT	PFO	--	44.233123	-96.813495	Middle Big Sioux Coteau	10170202	Desktop	8.77	0.00	0.25
Brookings	SDL-513	W_9_BO_072_DT	PEM	--	44.232800	-96.813559	Middle Big Sioux Coteau	10170202	Desktop	8.79	664.32	3.77
Brookings	SDL-513	W_9_BO_074_DT	PFO	--	44.232547	-96.814575	Middle Big Sioux Coteau	10170202	Desktop	8.87	96.54	1.07
Brookings	SDL-513	W_9_BO_075_DT	PEM	--	44.232717	-96.820710	Middle Big Sioux Coteau	10170202	Desktop	9.23	1,697.73	9.57
Brookings	SDL-513	W_9_BO_076_DT	PEM	--	44.232637	-96.824746	Middle Big Sioux Coteau	10170202	Desktop	9.35	106.10	0.77
Brookings	SDL-513	W_9_BO_077_DT	PEM	--	44.232706	-96.826604	Middle Big Sioux Coteau	10170202	Desktop	9.46	732.90	4.53
Brookings	SDL-513	W_9_BO_078_DT	PEM	--	44.232693	-96.830529	Middle Big Sioux Coteau	10170202	Desktop	9.66	1,261.73	6.92
Brookings	SDL-513	W_9_BO_059_DT	PEM	--	44.230174	-96.863185	Middle Big Sioux Coteau	10170202	Desktop	11.28	62.34	0.40
Brookings	SDL-513	W_9_BO_058_DT	PEM	--	44.226303	-96.874321	Middle Big Sioux Coteau	10170202	Desktop	11.92	0.00	0.16
Brookings	SDL-513	W_9_BO_057_DT	PEM	--	44.218552	-96.877777	Middle Big Sioux Coteau	10170202	Desktop	12.59	170.36	1.19
Brookings	SDL-513	W_9_BO_056_DT	PEM	--	44.216955	-96.877688	Middle Big Sioux Coteau	10170202	Desktop	12.70	0.00	1.38
Brookings	SDL-513	W_9_BO_055_DT	PEM	--	44.214926	-96.877467	Middle Big Sioux Coteau	10170202	Desktop	12.84	17.70	0.11
Brookings	SDL-513	W_9_BO_054_DT	PEM	--	44.204696	-96.877430	Middle Big Sioux Coteau	10170202	Desktop	13.55	322.61	1.49
Brookings	SDL-513	W_9_BO_053_DT	PEM	--	44.202664	-96.877830	Middle Big Sioux Coteau	10170202	Desktop	13.70	275.96	1.95
Brookings	SDL-513	W_9_BO_052_DT	PEM	--	44.201746	-96.879675	Middle Big Sioux Coteau	10170202	Desktop	13.79	0.00	0.45
Brookings	SDL-513	W_9_BO_051_DT	PEM	--	44.197536	-96.892952	Middle Big Sioux Coteau	10170202	Desktop	14.53	133.17	0.91
Brown	NDT-211	W2007BR070	PEM	--	45.935930	-98.694341	Elm	10160004	Survey	89.97	149.58	0.68
Brown	NDT-211	W2007BR067	PEM	--	45.935273	-98.694337	Elm	10160004	Survey	90.01	0.00	0.11
Brown	NDT-211	W2023BR165	PEM	--	45.932302	-98.704469	Elm	10160004	Survey	90.55	9.30	0.07
Brown	NDT-211	W_12_BR_022_DT	PEM	--	45.932731	-98.704466	Elm	10160004	Desktop	90.55	0.00	0.01
Brown	NDT-211	W_11_BR_003_DT	PEM	--	45.927509	-98.707942	Elm	10160004	Desktop	91.00	247.48	0.92
Brown	NDT-211	W_11_BR_002_DT	PEM	--	45.926398	-98.715594	Elm	10160004	Desktop	91.40	516.89	2.49
Brown	NDT-211	W_11_BR_001_DT	PEM	--	45.925725	-98.719645	Elm	10160004	Desktop	91.58	123.19	0.55
Brown	SDL-515	W_9_BR_819_DT	PEM	--	45.456331	-98.146284	Mud	10160005	Desktop	0.34	0.00	0.95
Brown	SDL-515	W_10_BR_003_DT	PEM	--	45.459288	-98.147717	Mud	10160005	Desktop	0.61	162.14	1.12
Brown	SDL-515	W_10_BR_003_DT	PEM	--	45.459416	-98.148344	Mud	10160005	Desktop	0.65	142.63	0.99
Brown	SDL-515	W_10_BR_004_DT	PEM	--	45.461012	-98.155252	Mud	10160005	Desktop	1.00	121.78	0.82
Brown	SDL-515	W_10_BR_005_DT	PEM	--	45.461185	-98.168855	Upper James	10160003	Desktop	1.67	381.98	1.75

Wetland Crossing Table												
County	Route ID	Feature ID	Feature Type	Feature Name	Latitude	Longitude	HUC 8 Watershed Name	HUC 8 Watershed No.	Survey or Desktop	Approx. MP	ESC Crossing Length (ft)	ESC Total Acres
Brown	SDL-515	W_10_BR_006_DT	PEM	--	45.461429	-98.170816	Upper James	10160003	Desktop	1.76	215.31	0.76
Brown	SDL-515	W_10_BR_007_DT	PEM	--	45.461476	-98.175926	Upper James	10160003	Desktop	2.02	1,110.43	7.36
Brown	SDL-515	W_10_BR_007_DT	PEM	--	45.461813	-98.181131	Upper James	10160003	Desktop	2.26	828.59	5.84
Brown	SDL-515	W_10_BR_008_DT	PEM	--	45.462301	-98.185173	Upper James	10160003	Desktop	2.46	213.90	1.33
Brown	SDL-515	W_10_BR_009_DT	PEM	--	45.462201	-98.186318	Upper James	10160003	Desktop	2.51	193.99	1.40
Brown	SDL-515	W_10_BR_010_DT	PEM	--	45.462524	-98.188607	Upper James	10160003	Desktop	2.63	203.21	1.44
Brown	SDL-515	W_12_BR_023_DT	PEM	--	45.461260	-98.189454	Upper James	10160003	Desktop	2.84	0.00	0.34
Brown	SDL-515	W_10_BR_011_DT	PEM	--	45.461062	-98.193983	Upper James	10160003	Desktop	2.97	197.71	1.37
Brown	SDL-515	W_10_BR_012_DT	PEM	--	45.461025	-98.201890	Upper James	10160003	Desktop	3.35	158.51	1.21
Brown	SDL-515	W_10_BR_012_DT	PEM	--	45.461047	-98.202739	Upper James	10160003	Desktop	3.39	200.62	1.58
Brown	SDL-515	W_10_BR_013_DT	PEM	--	45.460306	-98.210922	Upper James	10160003	Desktop	3.82	0.00	0.38
Brown	SDL-515	W_12_BR_001_DT	PEM	--	45.457506	-98.212229	Upper James	10160003	Desktop	4.04	132.51	0.83
Brown	SDL-515	W_12_BR_002_DT	PEM	--	45.450737	-98.219625	Upper James	10160003	Desktop	4.71	137.42	1.02
Brown	SDL-515	W_10_BR_017_DT	PEM	--	45.426325	-98.244407	Mud	10160005	Desktop	7.12	4.66	0.02
Brown	SDL-515	W_10_BR_017_DT	PEM	--	45.425708	-98.245805	Upper James	10160003	Desktop	7.20	846.10	5.59
Brown	SDL-515	W_10_BR_018_DT	PEM	--	45.422267	-98.252132	Upper James	10160003	Desktop	7.59	839.95	4.72
Brown	SDL-515	W_10_BR_019_DT	PEM	--	45.419443	-98.255194	Upper James	10160003	Desktop	7.85	0.00	0.21
Brown	SDL-515	W-10_BR_020_DT	PEM	--	45.417235	-98.265489	Upper James	10160003	Desktop	8.39	138.41	0.59
Brown	SDL-515	W_10_BR_021_DT	PEM	--	45.416549	-98.266938	Upper James	10160003	Desktop	8.46	0.00	0.50
Brown	SDL-515	W_10_BR_022_DT	PEM	--	45.416648	-98.269319	Upper James	10160003	Desktop	8.58	56.57	0.38
Brown	SDL-515	W_10_BR_023_DT	PEM	--	45.413531	-98.272592	Upper James	10160003	Desktop	8.85	190.77	1.14
Brown	SDL-515	W_10_BR_024_DT	PEM	--	45.403213	-98.278988	Upper James	10160003	Desktop	9.63	0.00	0.71
Brown	SDL-515	W_9_BR_038_DT	PEM	--	45.398797	-98.289044	Upper James	10160003	Desktop	10.44	2,913.27	19.99
Brown	SDL-515	W_9_BR_943_DT	PEM	--	45.399926	-98.310372	Upper James	10160003	Desktop	11.50	103.84	0.73
Brown	SDL-515	W_9_BR_943_DT	PEM	--	45.399961	-98.310840	Upper James	10160003	Desktop	11.52	108.53	0.76
Brown	SDL-515	W_9_BR_040_DT	PEM	--	45.399959	-98.313307	Upper James	10160003	Desktop	11.64	368.54	2.41
Brown	SDL-515	W_9_BR_945_DT	PEM	--	45.400074	-98.326943	Upper James	10160003	Desktop	12.30	153.96	0.97
Brown	SDL-515	W_9_BR_042_DT	PEM	--	45.400148	-98.331122	Upper James	10160003	Desktop	12.50	124.88	0.88
Brown	SDL-515	W_9_BR_042_DT	PEM	--	45.400216	-98.331678	Upper James	10160003	Desktop	12.53	171.77	1.21

Wetland Crossing Table												
County	Route ID	Feature ID	Feature Type	Feature Name	Latitude	Longitude	HUC 8 Watershed Name	HUC 8 Watershed No.	Survey or Desktop	Approx. MP	ESC Crossing Length (ft)	ESC Total Acres
Brown	SDL-515	W_9_BR_947_DT	PEM	--	45.400254	-98.337543	Upper James	10160003	Desktop	12.82	139.04	0.96
Brown	SDL-515	W_9_BR_947_DT	PEM	--	45.400263	-98.338185	Upper James	10160003	Desktop	12.85	117.45	0.87
Brown	SDL-515	W_9_BR_044_DT	PEM	--	45.400296	-98.349291	Upper James	10160003	Desktop	13.39	261.99	1.61
Brown	SDL-515	W_9_BR_949_DT	PEM	--	45.400212	-98.356049	Upper James	10160003	Desktop	13.72	54.50	0.37
Brown	SDL-515	W_9_BR_949_DT	PEM	--	45.400265	-98.356407	Upper James	10160003	Desktop	13.74	128.38	0.81
Brown	SDL-515	W_9_BR_046_DT	PEM	--	45.400301	-98.369461	Upper James	10160003	Desktop	14.37	1,116.28	7.67
Brown	SDL-515	W_9_BR_047_DT	PEM	--	45.400287	-98.377985	Upper James	10160003	Desktop	14.78	691.38	4.76
Brown	SDL-515	W_9_BR_048_DT	PEM	--	45.400212	-98.382981	Upper James	10160003	Desktop	15.02	144.49	1.05
Brown	SDL-515	W_9_BR_049_DT	PEM	--	45.400323	-98.396737	Upper James	10160003	Desktop	15.69	90.31	1.92
Brown	SDL-515	W_9_BR_050_DT	PEM	--	45.400336	-98.410890	Upper James	10160003	Desktop	16.39	246.24	1.36
Brown	SDL-515	W_12_BR_006_DT	PEM	--	45.401598	-98.438140	Upper James	10160003	Desktop	17.91	1,365.75	5.64
Brown	SDL-515	W_12_BR_005_DT	PEM	--	45.402605	-98.453293	Upper James	10160003	Desktop	18.53	60.34	0.55
Brown	SDL-515	W_12_BR_004_DT	PEM	--	45.396874	-98.489465	Upper James	10160003	Desktop	20.39	999.82	6.86
Brown	SDL-515	W_9_BR_052_DT	PEM	--	45.395816	-98.491747	Upper James	10160003	Desktop	20.52	442.42	3.07
Brown	SDL-515	W_9_BR_053_DT	PEM	--	45.398580	-98.523151	Snake	10160008	Desktop	22.14	1,993.72	13.68
Brown	SDL-515	W_9_BR_054_DT	PEM	--	45.404354	-98.532492	Snake	10160008	Desktop	22.71	0.00	0.87
Brown	SDL-515	W_9_BR_999_DT	PEM	--	45.401563	-98.535423	Snake	10160008	Desktop	22.72	0.00	0.01
Brown	SDL-515	W_9_BR_055_DT	PEM	--	45.410493	-98.535653	Snake	10160008	Desktop	23.24	338.63	2.07
Brown	SDL-515	W_9_BR_056_DT	PEM	--	45.428033	-98.543396	Snake	10160008	Desktop	24.64	0.00	0.01
Brown	SDL-515	W_9_BR_057_DT	PEM	--	45.430173	-98.547493	Snake	10160008	Desktop	24.89	0.00	0.35
Brown	SDL-515	W_9_BR_059_DT	PEM	--	45.437165	-98.556341	Snake	10160008	Desktop	25.60	124.19	0.52
Brown	SDL-515	W_9_BR_060_DT	PEM	--	45.439959	-98.556419	Snake	10160008	Desktop	25.80	184.10	0.97
Brown	SDL-515	W_9_BR_060_DT	PEM	--	45.440351	-98.556478	Snake	10160008	Desktop	25.83	83.30	0.54
Brown	SDM-105	W_9_BR_948_DT	PEM	--	45.250723	-98.620542	Snake	10160008	Desktop	68.47	0.00	0.11
Brown	SDM-105	W_9_BR_043_DT	PEM	--	45.252567	-98.620897	Snake	10160008	Desktop	68.57	738.88	3.67
Brown	SDM-105	W_9_BR_946_DT	PEM	--	45.257679	-98.621079	Snake	10160008	Desktop	68.95	71.81	0.27
Brown	SDM-105	W_9_BR_944_DT	PEM	--	45.269563	-98.622909	Snake	10160008	Desktop	69.76	0.00	0.56
Brown	SDM-105	W_9_BR_041_DT	PEM	--	45.270541	-98.624209	Snake	10160008	Desktop	69.86	0.00	0.10
Brown	SDM-105	W_9_BR_944_DT	PEM	--	45.271895	-98.623377	Snake	10160008	Desktop	69.96	0.00	0.15

Wetland Crossing Table												
County	Route ID	Feature ID	Feature Type	Feature Name	Latitude	Longitude	HUC 8 Watershed Name	HUC 8 Watershed No.	Survey or Desktop	Approx. MP	ESC Crossing Length (ft)	ESC Total Acres
Brown	SDM-105	W_9_BR_942_DT	PEM	--	45.278084	-98.626034	Snake	10160008	Desktop	70.38	374.09	1.63
Brown	SDM-105	W_9_BR_037_DT	PEM	--	45.279771	-98.625905	Snake	10160008	Desktop	70.49	0.00	0.36
Brown	SDM-105	W_9_BR_940_DT	PEM	--	45.284718	-98.627705	Snake	10160008	Desktop	70.85	0.00	0.96
Brown	SDM-105	W_9_BR_938_DT	PEM	--	45.287212	-98.630491	Snake	10160008	Desktop	71.09	1,032.68	6.88
Brown	SDM-105	W_9_BR_937_DT	PEM	--	45.287316	-98.637982	Snake	10160008	Desktop	71.46	0.00	0.32
Brown	SDM-105	W_9_BR_935_DT	PEM	--	45.288245	-98.655951	Snake	10160008	Desktop	72.33	0.00	0.11
Brown	SDM-105	W_9_BR_032_DT	PEM	--	45.289056	-98.657010	Snake	10160008	Desktop	72.39	0.00	0.69
Brown	SDM-105	W_9_BR_031_DT	PEM	--	45.291107	-98.662415	Snake	10160008	Desktop	72.72	0.00	0.09
Brown	SDM-105	W_9_BR_932_DT	PEM	--	45.291423	-98.663723	Snake	10160008	Desktop	72.80	66.80	0.60
Brown	SDM-105	W_9_BR_930_DT	PEM	--	45.293626	-98.665517	Snake	10160008	Desktop	72.96	0.00	0.48
Brown	SDM-105	W_9_BR_106_DT	PEM	--	45.297672	-98.665551	Snake	10160008	Desktop	73.24	0.00	0.07
Brown	SDM-105	W_9_BR_105_DT	PEM	--	45.298555	-98.665574	Snake	10160008	Desktop	73.29	0.00	0.31
Brown	SDM-105	W_9_BR_104_DT	PEM	--	45.301117	-98.665361	Snake	10160008	Desktop	73.47	10.47	0.23
Brown	SDM-105	W_9_BR_103_DT	PEM	--	45.301816	-98.665552	Snake	10160008	Desktop	73.50	345.31	1.82
Brown	SDM-105	W_9_BR_102_DT	PEM	--	45.303515	-98.666320	Snake	10160008	Desktop	73.64	0.00	0.09
Brown	SDM-105	W_9_BR_101_DT	PEM	--	45.303966	-98.667012	Snake	10160008	Desktop	73.70	0.00	0.23
Brown	SDM-105	W_9_BR_100_DT	PEM	--	45.305780	-98.669417	Snake	10160008	Desktop	73.86	0.00	0.07
Brown	SDM-105	W_9_BR_029_DT	PEM	--	45.315796	-98.677476	Snake	10160008	Desktop	74.69	0.00	0.05
Brown	SDM-105	W_9_BR_857_DT	PEM	--	45.318231	-98.679745	Snake	10160008	Desktop	74.88	0.00	0.16
Brown	SDM-105	W_9_BR_857_DT	PEM	--	45.318751	-98.680155	Snake	10160008	Desktop	74.92	0.00	0.06
Brown	SDM-105	W_9_BR_928_DT	PEM	--	45.319560	-98.679556	Snake	10160008	Desktop	74.96	0.00	0.15
Brown	SDM-105	W_9_BR_027_DT	PEM	--	45.320812	-98.682108	Snake	10160008	Desktop	75.11	0.00	0.19
Brown	SDM-105	W_9_BR_926_DT	PEM	--	45.321569	-98.683647	Snake	10160008	Desktop	75.21	60.14	0.57
Brown	SDM-105	W_12_BR_028_DT	PEM	--	45.323119	-98.689044	Snake	10160008	Desktop	75.53	0.00	0.06
Brown	SDM-105	W_12_BR_027_DT	PEM	--	45.322884	-98.690146	Snake	10160008	Desktop	75.54	0.00	0.23
Brown	SDM-105	W_12_BR_026_DT	PEM	--	45.331571	-98.702363	Snake	10160008	Desktop	76.44	0.00	1.16
Brown	SDM-105	W_12_BR_025_DT	PEM	--	45.336682	-98.711154	Snake	10160008	Desktop	77.01	208.82	1.33
Brown	SDM-105	W_12_BR_024_DT	PEM	--	45.338541	-98.711966	Snake	10160008	Desktop	77.15	697.26	4.94
Brown	SDM-105	W2244BR069	PEM	--	45.349987	-98.715031	Snake	10160008	Survey	77.95	163.32	0.98

Wetland Crossing Table												
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Brown	SDM-105	W2001BR027	PEM	--	45.352926	-98.717867	Snake	10160008	Survey	78.22	35.11	0.21
Brown	SDM-105	W2001BR026	PEM	--	45.352635	-98.718128	Snake	10160008	Survey	78.23	3.80	0.08
Brown	SDM-105	W_9_BR_678_DT	PEM	--	45.354258	-98.720164	Snake	10160008	Desktop	78.36	0.00	0.00
Brown	SDM-105	W2233BR001	PEM	--	45.354069	-98.720582	Snake	10160008	Survey	78.38	51.21	0.14
Brown	SDT-210	W2014BR017	PEM	--	45.457421	-98.539286	Upper James	10160003	Survey	0.17	101.38	0.18
Brown	SDT-210	W_9_BR_174_DT	PEM	--	45.454684	-98.538656	Upper James	10160003	Desktop	0.35	0.00	0.03
Brown	SDT-210	W2014BR018	PEM	--	45.454382	-98.539307	Upper James	10160003	Survey	0.37	208.00	1.14
Brown	SDT-210	W2014BR019	PEM	--	45.452235	-98.544967	Upper James	10160003	Survey	0.69	131.42	1.95
Brown	SDT-210	W2014BR020	PEM	--	45.449334	-98.547371	Upper James	10160003	Survey	1.04	1,188.65	6.86
Brown	SDT-210	W3919BR070	PEM	--	45.441619	-98.558288	Snake	10160008	Survey	1.87	207.49	1.45
Brown	SDT-210	W2244BR067	PEM	--	45.437758	-98.576455	Snake	10160008	Survey	2.80	511.72	1.78
Brown	SDT-210	W3919BR074	PEM	--	45.437745	-98.578015	Snake	10160008	Survey	2.89	264.90	1.85
Brown	SDT-210	W3919BR072	PEM	--	45.436869	-98.598010	Snake	10160008	Survey	3.87	0.00	0.14
Brown	SDT-210	W3112BR047	PEM	--	45.437533	-98.598703	Snake	10160008	Survey	3.89	0.00	0.19
Brown	SDT-210	W3919BR071	PEM	--	45.435956	-98.618845	Snake	10160008	Survey	4.89	10.45	0.18
Brown	SDT-210	W3112BR048	PEM	--	45.435898	-98.619414	Snake	10160008	Survey	4.90	11.24	0.45
Brown	SDT-210	W3112BR049	PEM	--	45.436507	-98.619700	Snake	10160008	Survey	4.92	0.00	0.07
Brown	SDT-210	W_9_BR_071_DT	PEM	--	45.435602	-98.621527	Snake	10160008	Desktop	5.02	0.00	0.00
Brown	SDT-210	W3112BR050	PEM	--	45.435487	-98.621789	Snake	10160008	Survey	5.05	0.00	0.18
Brown	SDT-210	W_9_BR_071_DT	PEM	--	45.435588	-98.621867	Snake	10160008	Desktop	5.07	0.00	0.06
Brown	SDT-210	W3112BR051	PEM	--	45.435275	-98.626283	Snake	10160008	Survey	5.28	135.73	0.78
Brown	SDT-210	W_9_BR_070_DT	PEM	--	45.435732	-98.626738	Snake	10160008	Desktop	5.30	0.00	0.36
Brown	SDT-210	W_9_BR_069_DT	PEM	--	45.435357	-98.633850	Snake	10160008	Desktop	5.65	0.00	0.09
Brown	SDT-210	W_9_BR_068_DT	PEM	--	45.435821	-98.635774	Snake	10160008	Desktop	5.73	0.00	0.33
Brown	SDT-210	W_9_BR_067_DT	PEM	--	45.434535	-98.641464	Snake	10160008	Desktop	6.03	0.00	0.04
Brown	SDT-210	W2015BR089	PEM	--	45.432417	-98.647979	Snake	10160008	Survey	6.40	38.50	0.10
Brown	SDT-210	W2015BR089	PEM	--	45.432301	-98.648332	Snake	10160008	Survey	6.42	40.69	0.27
Brown	SDT-210	W2015BR089	PEM	--	45.432746	-98.649190	Snake	10160008	Survey	6.47	0.00	0.16
Brown	SDT-210	W_12_BR_007_DT	PEM	--	45.432255	-98.655919	Snake	10160008	Desktop	6.82	26.72	0.26

Wetland Crossing Table												
County	Route ID	Feature ID	Feature Type	Feature Name	Latitude	Longitude	HUC 8 Watershed Name	HUC 8 Watershed No.	Survey or Desktop	Approx. MP	ESC Crossing Length (ft)	ESC Total Acres
Brown	SDT-210	W_12_BR_008_DT	PEM	--	45.431372	-98.655923	Snake	10160008	Desktop	6.89	0.00	0.12
Brown	SDT-210	W_12_BR_009_DT	PEM	--	45.430881	-98.661451	Snake	10160008	Desktop	7.14	0.00	0.30
Brown	SDT-210	W_12_BR_010_DT	PEM	--	45.429901	-98.662334	Snake	10160008	Desktop	7.22	243.86	0.86
Brown	SDT-210	W_12_BR_010_DT	PEM	--	45.428949	-98.663582	Snake	10160008	Desktop	7.30	0.00	0.21
Brown	SDT-210	W_12_BR_011_DT	PEM	--	45.427668	-98.666657	Snake	10160008	Desktop	7.49	0.00	0.11
Brown	SDT-210	W_12_BR_012_DT	PEM	--	45.426117	-98.667573	Snake	10160008	Desktop	7.59	271.12	2.01
Brown	SDT-210	W_12_BR_013_DT	PEM	--	45.424823	-98.668870	Snake	10160008	Desktop	7.68	16.41	0.39
Brown	SDT-210	W_12_BR_014_DT	PEM	--	45.424400	-98.674736	Snake	10160008	Desktop	7.97	0.00	0.11
Brown	SDT-210	W_12_BR_015_DT	PEM	--	45.424940	-98.678829	Snake	10160008	Desktop	8.16	264.95	1.26
Brown	SDT-210	W_12_BR_016_DT	PEM	--	45.424025	-98.683585	Snake	10160008	Desktop	8.42	0.00	0.04
Brown	SDT-210	W_12_BR_017_DT	PEM	--	45.417171	-98.690586	Snake	10160008	Desktop	9.02	17.74	0.27
Brown	SDT-210	W_12_BR_018_DT	PEM	--	45.416818	-98.691979	Snake	10160008	Desktop	9.10	16.22	0.21
Brown	SDT-210	W_12_BR_018_DT	PEM	--	45.416851	-98.692303	Snake	10160008	Desktop	9.11	91.99	0.62
Brown	SDT-210	W_12_BR_019_DT	PEM	--	45.417136	-98.709439	Snake	10160008	Desktop	9.96	604.85	3.97
Brown	SDT-210	W_12_BR_020_DT	PEM	--	45.417240	-98.715925	Snake	10160008	Desktop	10.26	439.43	3.76
Brown	SDT-210	W_12_BR_021_DT	PEM	--	45.416993	-98.720961	Snake	10160008	Desktop	10.52	193.16	1.24
Clark	SDT-208	W_10_CL_003_DT	PEM	--	44.697390	-97.492473	Middle Big Sioux Coteau	10170202	Desktop	27.43	0.00	0.00
Clark	SDT-208	W2002CL114	PEM	--	44.688506	-97.499602	Middle Big Sioux Coteau	10170202	Survey	28.17	509.40	2.62
Clark	SDT-208	W_9_CL_401_DT_USACE	PEM	--	44.686839	-97.504086	Middle Big Sioux Coteau	10170202	Desktop	28.42	0.00	0.06
Clark	SDT-208	W2002CL115	PEM	--	44.686163	-97.505854	Middle Big Sioux Coteau	10170202	Survey	28.52	0.00	0.06
Clark	SDT-208	W2014CL091	PEM	--	44.681737	-97.525365	Middle Big Sioux Coteau	10170202	Survey	29.52	502.69	2.35
Clark	SDT-208	W2014CL092	PEM	--	44.681398	-97.528219	Middle Big Sioux Coteau	10170202	Survey	29.69	0.00	0.05
Clark	SDT-208	W2014CL086	PEM	--	44.679445	-97.536144	Middle Big Sioux Coteau	10170202	Survey	30.13	272.65	1.83
Clark	SDT-208	W2014CL087	PEM	--	44.678541	-97.537430	Middle Big Sioux Coteau	10170202	Survey	30.22	119.44	0.73
Clark	SDT-208	W2014CL088	PEM	--	44.677449	-97.539376	Middle Big Sioux Coteau	10170202	Survey	30.34	423.07	1.76
Clark	SDT-208	W2014CL089	PEM	--	44.674739	-97.544806	Middle Big Sioux Coteau	10170202	Survey	30.64	63.39	1.09
Clark	SDT-208	W2014CL090	PEM	--	44.673268	-97.546635	Middle Big Sioux Coteau	10170202	Survey	30.79	547.52	2.26
Clark	SDT-208	W3112CL055	PEM	--	44.670702	-97.552771	Middle Big Sioux Coteau	10170202	Survey	31.14	0.00	0.10
Clark	SDT-208	W2023CL138	PEM	--	44.665651	-97.556892	Middle Big Sioux Coteau	10170202	Survey	31.60	178.87	1.11

Wetland Crossing Table												
County	Route ID	Feature ID	Feature Type	Feature Name	Latitude	Longitude	HUC 8 Watershed Name	HUC 8 Watershed No.	Survey or Desktop	Approx. MP	ESC Crossing Length (ft)	ESC Total Acres
Clark	SDT-208	W2023CL139	PEM	--	44.665117	-97.559035	Middle Big Sioux Coteau	10170202	Survey	31.72	0.00	0.29
Clark	SDT-208	W2023CL140	PEM	--	44.664428	-97.561472	Middle Big Sioux Coteau	10170202	Survey	31.85	0.00	0.06
Clark	SDT-208	W2006HA043	PEM	--	44.662806	-97.565332	Middle Big Sioux Coteau	10170202	Survey	32.06	312.41	2.39
Clark	SDT-208	W2006HA045	PEM	--	44.659656	-97.573565	Middle Big Sioux Coteau	10170202	Survey	32.53	57.27	0.33
Clark	SDT-208	W2006CL046	PEM	--	44.654660	-97.580728	Middle Big Sioux Coteau	10170202	Survey	33.02	140.53	0.60
Clark	SDT-208	W2006CL046	PEM	--	44.654468	-97.581059	Middle Big Sioux Coteau	10170202	Survey	33.03	27.68	0.51
Clark	SDT-208	W2006CL048	PEM	--	44.650018	-97.588382	Middle Big Sioux Coteau	10170202	Survey	33.51	38.16	0.49
Clark	SDT-208	W2006CL049	PEM	--	44.644935	-97.596548	Middle Big Sioux Coteau	10170202	Survey	34.05	724.36	4.38
Clark	SDT-208	W2006CL050	PEM	--	44.642122	-97.601750	Middle Big Sioux Coteau	10170202	Survey	34.38	0.00	0.00
Clark	SDT-208	W2006CL050	PEM	--	44.641580	-97.602274	Middle Big Sioux Coteau	10170202	Survey	34.42	66.10	0.59
Clark	SDT-208	W2002CL079	PEM	--	44.632553	-97.614824	Middle Big Sioux Coteau	10170202	Survey	35.35	0.00	0.06
Clark	SDT-208	W_9_CL_266_DT_USACE	PEM	--	44.626111	-97.623284	Middle Big Sioux Coteau	10170202	Desktop	35.97	0.00	0.16
Clark	SDT-208	W_9_CL_100_DT_USACE	PEM	--	44.624110	-97.625227	Middle Big Sioux Coteau	10170202	Desktop	36.13	253.65	1.76
Clark	SDT-208	W2004CL113	PEM	--	44.617569	-97.635642	Middle Big Sioux Coteau	10170202	Survey	36.84	120.45	0.51
Clark	SDT-208	W_10_CL_001_DT	PEM	--	44.617620	-97.636315	Middle Big Sioux Coteau	10170202	Desktop	36.86	0.00	0.00
Clark	SDT-208	W2004CL107	PEM	--	44.614652	-97.639189	Middle Big Sioux Coteau	10170202	Survey	37.12	0.00	0.08
Clark	SDT-208	W2004CL108	PEM	--	44.609958	-97.645674	Middle Big Sioux Coteau	10170202	Survey	37.59	0.00	0.13
Clark	SDT-208	W2004CL109	PEM	--	44.606094	-97.650322	Middle Big Sioux Coteau	10170202	Survey	37.93	154.19	0.82
Clark	SDT-208	W2004CL110	PEM	--	44.602522	-97.652868	Middle Big Sioux Coteau	10170202	Survey	38.24	0.00	0.67
Clark	SDT-208	W2004CL111	PEM	--	44.601944	-97.653013	Middle Big Sioux Coteau	10170202	Survey	38.28	0.00	0.02
Clark	SDT-208	W2002CL080	PEM	--	44.596695	-97.655744	Middle Big Sioux Coteau	10170202	Survey	38.65	570.26	5.06
Clark	SDT-208	W2002CL081	PEM	--	44.595379	-97.658930	Middle Big Sioux Coteau	10170202	Survey	38.87	134.16	1.49
Clark	SDT-208	W2004CL112	PEM	--	44.595559	-97.660093	Middle Big Sioux Coteau	10170202	Survey	38.91	0.00	0.20
Clark	SDT-208	W_9_CL_003_DT	PEM	--	44.586796	-97.681316	Middle James	10160006	Desktop	40.25	0.00	0.05
Clark	SDT-208	W_9_CL_004_DT	PEM	--	44.586616	-97.681231	Middle James	10160006	Desktop	40.27	0.00	0.05
Clark	SDT-208	W_9_CL_002_DT	PEM	--	44.586089	-97.681320	Middle James	10160006	Desktop	40.29	0.00	0.05
Clark	SDT-208	W_9_CL_005_DT	PEM	--	44.586066	-97.681235	Middle James	10160006	Desktop	40.29	0.00	0.01
Clark	SDT-208	W_9_CL_006_DT	PEM	--	44.585873	-97.681020	Middle James	10160006	Desktop	40.30	0.00	0.04
Clark	SDT-208	W_9_CL_001_DT	PEM	--	44.584420	-97.681310	Middle James	10160006	Desktop	40.43	0.00	0.03

Wetland Crossing Table												
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Clark	SDT-208	W2006CL094	PEM	--	44.581938	-97.684789	Middle James	10160006	Survey	40.65	0.00	0.32
Clark	SDT-208	W2006CL095	PEM	--	44.580722	-97.688478	Middle James	10160006	Survey	40.85	0.00	0.54
Clark	SDT-208	W2006CL096	PEM	--	44.580662	-97.689930	Middle James	10160006	Survey	40.93	52.50	0.21
Clark	SDT-208	W2006CL096	PEM	--	44.579608	-97.689266	Middle James	10160006	Survey	40.95	0.00	0.03
Clark	SDT-208	W2006CL132	PEM	--	44.579459	-97.698467	Middle James	10160006	Survey	41.39	0.00	0.32
Clark	SDT-208	W2006CL097	PEM	--	44.578219	-97.708512	Middle James	10160006	Survey	41.89	255.34	1.78
Clark	SDT-208	W2006CL098	PEM	--	44.576115	-97.719265	Middle James	10160006	Survey	42.43	110.04	0.34
Clark	SDT-208	W2006CL099	PEM	--	44.575740	-97.720755	Middle James	10160006	Survey	42.52	147.21	0.87
Clark	SDT-208	W2006CL099	PEM	--	44.575475	-97.721966	Middle James	10160006	Survey	42.57	87.60	0.43
Clark	SDT-208	W2006CL100	PEM	--	44.572841	-97.734767	Middle James	10160006	Survey	43.25	131.64	0.61
Clark	SDT-208	W2015CL155	PEM	--	44.572494	-97.735590	Middle James	10160006	Survey	43.28	144.17	0.90
Clark	SDT-208	W2015CL156	PEM	--	44.572207	-97.738327	Middle James	10160006	Survey	43.45	0.00	0.38
Clark	SDT-208	W2015CL157	PEM	--	44.571592	-97.738387	Middle James	10160006	Survey	43.47	0.00	0.03
Clark	SDT-208	W2015CL154	PEM	--	44.571636	-97.762878	Middle James	10160006	Survey	44.62	1,253.22	4.34
Clark	SDT-208	W_2_CL_111_DT	PEM	--	44.571164	-97.765798	Middle James	10160006	Desktop	44.81	0.00	0.03
Clark	SDT-208	W_2_CL_110_DT	PEM	--	44.571145	-97.766508	Middle James	10160006	Desktop	44.83	0.00	0.11
Clark	SDT-208	W2006CL091	PEM	--	44.571610	-97.766116	Middle James	10160006	Survey	44.83	116.45	0.71
Clark	SDT-208	W2006CL091	PEM	--	44.571511	-97.766770	Middle James	10160006	Survey	44.87	270.16	1.64
Clark	SDT-208	W2006CL092	PEM	--	44.571165	-97.794942	Middle James	10160006	Survey	46.26	0.00	0.06
Clark	SDT-208	W2006CL093	PEM	--	44.571676	-97.795085	Middle James	10160006	Survey	46.26	24.05	0.17
Clark	SDT-208	W2006CL134	PEM	--	44.570805	-97.799108	Middle James	10160006	Survey	46.47	0.00	0.14
Clark	SDT-208	W2006CL089	PEM	--	44.569013	-97.806622	Middle James	10160006	Survey	46.87	0.00	0.53
Clark	SDT-208	W2006CL090	PEM	--	44.567855	-97.814782	Middle James	10160006	Survey	47.27	0.00	0.09
Clark	SDT-208	W2006CL129	PEM	--	44.564469	-97.829049	Middle James	10160006	Survey	48.01	70.45	0.59
Clark	SDT-208	W2006CL130	PEM	--	44.564174	-97.832056	Middle James	10160006	Survey	48.17	500.22	2.94
Clark	SDT-208	W2006CL131	PEM	--	44.563666	-97.835067	Middle James	10160006	Survey	48.33	0.00	0.64
Clark	SDT-208	W2022CL061	PEM	--	44.561076	-97.848109	Middle James	10160006	Survey	49.02	0.00	0.14
Clark	SDT-208	W2022CL062	PEM	--	44.560807	-97.848347	Middle James	10160006	Survey	49.04	0.00	0.02
Codington	SDL-513	W_10_LA_007_DT	PEM	--	44.055522	-96.900513	Middle Big Sioux Coteau	10170202	Desktop	25.80	31.03	0.26

Wetland Crossing Table												
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Codington	SDL-513	W_10_LA_008_DT	PEM	--	44.053789	-96.901188	Lower Big Sioux	10170203	Desktop	25.91	146.16	0.73
Codington	SDL-513	W_10_LA_011_DT	PEM	--	44.050141	-96.908633	Middle Big Sioux Coteau	10170202	Desktop	26.40	0.00	0.09
Codington	SDL-513	W_10_LA_012_DT	PEM	--	44.050266	-96.909221	Middle Big Sioux Coteau	10170202	Desktop	26.42	202.51	1.19
Codington	SDL-513	W_10_LA_013_DT	PEM	--	44.046990	-96.910563	Lower Big Sioux	10170203	Desktop	26.68	40.44	0.38
Codington	SDL-513	W_10_LA_014_DT	PEM	--	44.045647	-96.911081	Lower Big Sioux	10170203	Desktop	26.77	286.78	0.93
Codington	SDL-513	W_10_LA_015_DT	PEM	--	44.043069	-96.911876	Lower Big Sioux	10170203	Desktop	26.95	109.56	0.78
Codington	SDL-514	W_9_CD_009_DT	PEM	--	45.053607	-96.885009	Upper Big Sioux	10170201	Desktop	29.19	664.62	4.50
Codington	SDL-514	W_9_CD_010_DT	PEM	--	45.051864	-96.887892	Upper Big Sioux	10170201	Desktop	29.38	170.73	1.20
Codington	SDL-514	W_9_CD_010_DT	PEM	--	45.051459	-96.888558	Upper Big Sioux	10170201	Desktop	29.42	246.87	1.71
Codington	SDL-514	W_9_CD_011_DT	PEM	--	45.046967	-96.890208	Upper Big Sioux	10170201	Desktop	29.76	97.29	0.53
Codington	SDL-514	W_9_CD_011_DT	PEM	--	45.046805	-96.889874	Upper Big Sioux	10170201	Desktop	29.78	15.36	0.23
Codington	SDL-514	W_9_CD_012_DT	PEM	--	45.038855	-96.890090	Upper Big Sioux	10170201	Desktop	30.32	32.61	0.33
Codington	SDL-514	W_9_CD_013_DT	PEM	--	45.037952	-96.890118	Upper Big Sioux	10170201	Desktop	30.38	2.64	0.13
Codington	SDL-514	W_9_CD_013_DT	PEM	--	45.037838	-96.890406	Upper Big Sioux	10170201	Desktop	30.39	51.88	0.35
Codington	SDL-514	W_9_CD_014_DT	PEM	--	45.030946	-96.892058	Upper Big Sioux	10170201	Desktop	30.88	0.00	0.22
Codington	SDL-514	W_9_CD_015_DT	PSS	--	45.027369	-96.892349	Upper Big Sioux	10170201	Desktop	31.13	73.14	0.38
Codington	SDL-514	W_9_CD_015_DT	PSS	--	45.027536	-96.892608	Upper Big Sioux	10170201	Desktop	31.14	14.80	0.47
Codington	SDL-514	W_9_CD_889_DT	PEM	--	45.023067	-96.883816	Upper Big Sioux	10170201	Desktop	31.45	0.00	0.22
Codington	SDL-514	W_9_CD_888_DT	PEM	--	45.022850	-96.883701	Upper Big Sioux	10170201	Desktop	31.47	0.00	0.34
Codington	SDL-514	W_9_CD_016_DT	PEM	--	45.020454	-96.892367	Upper Big Sioux	10170201	Desktop	31.60	45.75	0.54
Codington	SDL-514	W_9_CD_016_DT	PEM	--	45.020365	-96.892761	Upper Big Sioux	10170201	Desktop	31.62	163.77	0.84
Codington	SDL-514	W_12_CD_010_DT	PEM	--	45.016905	-96.892106	Upper Big Sioux	10170201	Desktop	31.85	0.00	0.01
Codington	SDL-514	W_12_CD_010_DT	PEM	--	45.015884	-96.892758	Upper Big Sioux	10170201	Desktop	31.90	95.38	0.92
Codington	SDL-514	W_12_CD_011_DT	PEM	--	45.007812	-96.893362	Upper Big Sioux	10170201	Desktop	32.49	71.69	0.53
Codington	SDL-514	W_12_CD_012_DT	PEM	--	45.006115	-96.892888	Upper Big Sioux	10170201	Desktop	32.61	0.00	0.10
Codington	SDL-514	W_12_CD_012_DT	PEM	--	45.005374	-96.893416	Upper Big Sioux	10170201	Desktop	32.65	95.28	0.74
Codington	SDL-514	W_12_CD_014_DT	PEM	--	45.002355	-96.892858	Upper Big Sioux	10170201	Desktop	32.87	0.00	0.37
Codington	SDL-514	W_12_CD_015_DT	PEM	--	44.997339	-96.893147	Upper Big Sioux	10170201	Desktop	33.21	63.25	0.44
Codington	SDL-514	W_12_CD_016_DT	PEM	--	44.992446	-96.892981	Upper Big Sioux	10170201	Desktop	33.55	87.38	0.65

Wetland Crossing Table												
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Codington	SDL-514	W_12_CD_017_DT	PEM	--	44.988760	-96.896589	Upper Big Sioux	10170201	Desktop	33.89	51.29	0.41
Codington	SDL-514	W_12_CD_018_DT	PEM	--	44.984834	-96.897892	Upper Big Sioux	10170201	Desktop	34.18	0.00	0.06
Codington	SDL-514	W_12_CD_019_DT	PEM	--	44.981086	-96.897349	Upper Big Sioux	10170201	Desktop	34.44	52.27	0.30
Codington	SDL-514	W_12_CD_020_DT	PEM	--	44.980401	-96.897828	Upper Big Sioux	10170201	Desktop	34.50	0.00	0.08
Codington	SDL-514	W_12_CD_021_DT	PEM	--	44.977417	-96.902243	Upper Big Sioux	10170201	Desktop	34.80	55.63	0.39
Codington	SDL-514	W_12_CD_022_DT	PEM	--	44.975192	-96.907610	Upper Big Sioux	10170201	Desktop	35.16	112.64	0.28
Codington	SDL-514	W_12_CD_023_DT	PEM	--	44.972151	-96.913199	Upper Big Sioux	10170201	Desktop	35.50	0.00	0.03
Codington	SDL-514	W_12_CD_024_DT	PEM	--	44.972456	-96.914317	Upper Big Sioux	10170201	Desktop	35.54	0.00	0.00
Codington	SDL-514	W_12_CD_025_DT	PEM	--	44.972152	-96.914953	Upper Big Sioux	10170201	Desktop	35.57	0.00	0.12
Codington	SDL-514	W_12_CD_026_DT	PEM	--	44.971688	-96.915564	Upper Big Sioux	10170201	Desktop	35.61	255.12	0.65
Codington	SDL-514	W_12_CD_027_DT	PEM	--	44.971328	-96.916453	Upper Big Sioux	10170201	Desktop	35.67	15.74	0.18
Codington	SDL-514	W_12_CD_028_DT	PEM	--	44.971239	-96.917722	Upper Big Sioux	10170201	Desktop	35.73	41.23	0.34
Codington	SDL-514	W_12_CD_028_DT	PEM	--	44.969120	-96.925918	Upper Big Sioux	10170201	Desktop	36.18	571.72	0.62
Codington	SDL-514	W_12_CD_029_DT	PEM	--	44.966004	-96.941392	Upper Big Sioux	10170201	Desktop	36.93	69.75	0.69
Codington	SDL-514	W_12_CD_030_DT	PEM	--	44.965125	-96.945490	Upper Big Sioux	10170201	Desktop	37.16	28.86	0.19
Codington	SDL-514	W_12_CD_031_DT	PEM	--	44.963686	-96.948289	Upper Big Sioux	10170201	Desktop	37.34	66.86	0.76
Codington	SDL-514	W_9_CD_030_DT	PEM	--	44.944591	-96.956204	Upper Big Sioux	10170201	Desktop	38.81	73.92	0.46
Codington	SDL-514	W_9_CD_029_DT	PSS	--	44.943671	-96.956811	Upper Big Sioux	10170201	Desktop	38.88	60.69	0.40
Codington	SDL-514	W_10_CD_028_DT	PEM	--	44.940721	-96.959835	Upper Big Sioux	10170201	Desktop	39.14	118.73	0.94
Codington	SDL-514	W_10_CD_027_DT_PEM	PEM	--	44.938246	-96.961030	Upper Big Sioux	10170201	Desktop	39.31	91.15	0.62
Codington	SDL-514	W_10_CD_027_DT_PFO	PFO	--	44.937996	-96.961008	Upper Big Sioux	10170201	Desktop	39.32	27.86	0.11
Codington	SDL-514	W_10_CD_027_DT_PEM	PEM	--	44.937292	-96.960958	Upper Big Sioux	10170201	Desktop	39.33	93.54	1.18
Codington	SDL-514	W_10_CD_026_DT	PEM	--	44.932629	-96.962211	Upper Big Sioux	10170201	Desktop	39.70	63.56	0.35
Codington	SDL-514	W_10_CD_025_DT	PEM	--	44.930645	-96.962563	Upper Big Sioux	10170201	Desktop	39.83	0.00	0.17
Codington	SDL-514	W_10_CD_024_DT	PEM	--	44.928976	-96.962349	Upper Big Sioux	10170201	Desktop	39.95	16.08	0.14
Codington	SDL-514	W_10_CD_024_DT	PEM	--	44.928938	-96.962112	Upper Big Sioux	10170201	Desktop	39.95	5.65	0.17
Codington	SDL-514	W_10_CD_030_DT	PEM	--	44.926708	-96.962020	Upper Big Sioux	10170201	Desktop	40.10	76.18	0.81
Codington	SDL-514	W_10_CD_029_DT	PEM	--	44.924550	-96.962339	Upper Big Sioux	10170201	Desktop	40.28	197.30	0.68
Codington	SDL-514	W_10_CD_023_DT	PEM	--	44.919803	-96.962350	Upper Big Sioux	10170201	Desktop	40.58	59.63	0.41

Wetland Crossing Table												
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Codington	SDL-514	W_10_CD_022_DT	PEM	--	44.918066	-96.966835	Upper Big Sioux	10170201	Desktop	40.90	95.80	0.72
Codington	SDL-514	W_10_CD_021_DT	PEM	--	44.913788	-96.973876	Upper Big Sioux	10170201	Desktop	41.43	58.45	0.53
Codington	SDL-514	W_9_CD_036_DT	PEM	--	44.910218	-96.973645	Upper Big Sioux	10170201	Desktop	41.69	334.27	2.09
Codington	SDL-514	W_10_CD_020_DT	PEM	--	44.899592	-96.973707	Upper Big Sioux	10170201	Desktop	42.38	373.44	0.16
Codington	SDL-514	W_10_CD_020_DT	PEM	--	44.899540	-96.973707	Upper Big Sioux	10170201	Desktop	42.38	382.32	0.27
Codington	SDL-514	W_10_CD_019_DT	PEM	--	44.898464	-96.973617	Upper Big Sioux	10170201	Desktop	42.50	9.08	0.09
Codington	SDL-514	W_10_CD_019_DT	PEM	--	44.898339	-96.973397	Upper Big Sioux	10170201	Desktop	42.50	10.82	0.14
Codington	SDL-514	W_10_CD_018_DT	PEM	--	44.897469	-96.973267	Upper Big Sioux	10170201	Desktop	42.56	0.00	0.21
Codington	SDL-514	W_9_CD_038_DT	PEM	--	44.892939	-96.973663	Upper Big Sioux	10170201	Desktop	42.88	81.88	0.46
Codington	SDL-514	W_9_CD_039_DT	PEM	--	44.885773	-96.974889	Upper Big Sioux	10170201	Desktop	43.41	24.56	0.21
Codington	SDL-514	W_9_CD_039_DT	PEM	--	44.885668	-96.974885	Upper Big Sioux	10170201	Desktop	43.41	22.95	0.27
Codington	SDL-514	W_9_CD_040_DT	PEM	--	44.873331	-96.976156	Upper Big Sioux	10170201	Desktop	44.30	136.41	1.06
Codington	SDL-514	W_10_CD_001_DT	PEM	--	44.867465	-96.976427	Upper Big Sioux	10170201	Desktop	44.71	100.67	0.21
Codington	SDL-514	W_9_CD_041_DT	PEM	--	44.867000	-96.975924	Upper Big Sioux	10170201	Desktop	44.72	0.00	0.22
Codington	SDL-514	W_9_CD_042_DT	PEM	--	44.862295	-96.976017	Upper Big Sioux	10170201	Desktop	45.10	13.74	0.18
Codington	SDL-514	W_9_CD_042_DT	PEM	--	44.861681	-96.976624	Upper Big Sioux	10170201	Desktop	45.11	7.30	0.27
Codington	SDL-514	W_9_CD_043_DT	PEM	--	44.853746	-96.976077	Upper Big Sioux	10170201	Desktop	45.65	22.46	0.13
Codington	SDL-514	W_9_CD_043_DT	PEM	--	44.853512	-96.976130	Upper Big Sioux	10170201	Desktop	45.67	134.66	0.40
Codington	SDL-514	W_9_CD_043_DT	PEM	--	44.853339	-96.975782	Upper Big Sioux	10170201	Desktop	45.68	28.89	0.32
Codington	SDL-514	W_9_CD_044_DT	PEM	--	44.848382	-96.975669	Upper Big Sioux	10170201	Desktop	46.03	0.00	0.11
Codington	SDL-514	W_9_CD_044_DT	PEM	--	44.848260	-96.975717	Upper Big Sioux	10170201	Desktop	46.03	0.00	0.10
Codington	SDL-514	W_10_CD_004_DT	PEM	--	44.843158	-96.975855	Upper Big Sioux	10170201	Desktop	46.38	36.02	0.38
Codington	SDL-514	W_9_CD_046_DT	PEM	--	44.838045	-97.021075	Upper Big Sioux	10170201	Desktop	48.73	75.51	0.61
Codington	SDL-514	W_9_CD_046_DT	PEM	--	44.838083	-97.021340	Upper Big Sioux	10170201	Desktop	48.74	55.73	0.27
Codington	SDL-514	W_9_CD_047_DT	PEM	--	44.840215	-97.032410	Upper Big Sioux	10170201	Desktop	49.32	17.03	0.12
Codington	SDL-514	W_9_CD_047_DT	PEM	--	44.840252	-97.032491	Upper Big Sioux	10170201	Desktop	49.33	25.40	0.13
Codington	SDL-514	W_10_CD_006_DT	PEM	--	44.840188	-97.039876	Upper Big Sioux	10170201	Desktop	49.68	63.49	0.74
Codington	SDL-514	W_10_CD_005_DT	PEM	--	44.840876	-97.043868	Upper Big Sioux	10170201	Desktop	49.89	0.00	0.08
Codington	SDL-514	W_9_CD_048_DT	PEM	--	44.838031	-97.054633	Upper Big Sioux	10170201	Desktop	50.49	122.64	0.64

Wetland Crossing Table												
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Codington	SDL-514	W_10_CD_007_DT	PEM	--	44.845585	-97.072696	Upper Big Sioux	10170201	Desktop	51.55	169.42	0.96
Codington	SDT-208	W2015CD164	PEM	--	44.881296	-97.112091	Upper Big Sioux	10170201	Survey	0.01	0.00	0.01
Codington	SDT-208	W_9_CD_051_DT	PEM	--	44.881337	-97.112859	Upper Big Sioux	10170201	Desktop	0.01	0.00	1.02
Codington	SDT-208	W2015CD164	PEM	--	44.881622	-97.114064	Upper Big Sioux	10170201	Survey	0.01	0.00	0.57
Codington	SDT-208	W2015CD165	PEM	--	44.880445	-97.109983	Upper Big Sioux	10170201	Survey	0.08	249.58	2.07
Codington	SDT-208	W2015CD165	PEM	--	44.880729	-97.109565	Upper Big Sioux	10170201	Survey	0.14	0.00	0.05
Codington	SDT-208	W3112CO056	PEM	--	44.879821	-97.108361	Upper Big Sioux	10170201	Survey	0.17	0.00	0.75
Codington	SDT-208	W3112CO056	PEM	--	44.878994	-97.104825	Upper Big Sioux	10170201	Survey	0.31	1,931.04	9.11
Codington	SDT-208	W3919CO303	PEM	--	44.876958	-97.099347	Upper Big Sioux	10170201	Survey	0.73	132.53	0.62
Codington	SDT-208	W_10_CD_008_DT	PEM	--	44.863400	-97.090994	Upper Big Sioux	10170201	Desktop	1.77	0.00	0.12
Codington	SDT-208	W2022CO022	PEM	--	44.863600	-97.090467	Upper Big Sioux	10170201	Survey	1.77	37.29	0.19
Codington	SDT-208	W_10_CD_017_DT	PEM	--	44.862311	-97.084738	Upper Big Sioux	10170201	Desktop	2.09	50.87	0.50
Codington	SDT-208	W_10_CD_017_DT	PEM	--	44.862080	-97.084642	Upper Big Sioux	10170201	Desktop	2.12	177.67	0.86
Codington	SDT-208	W_10_CD_016_DT	PEM	--	44.862282	-97.081266	Upper Big Sioux	10170201	Desktop	2.27	55.49	0.25
Codington	SDT-208	W_10_CD_015_DT	PEM	--	44.862360	-97.079446	Upper Big Sioux	10170201	Desktop	2.35	237.95	0.64
Codington	SDT-208	W_10_CD_014_DT_PEM	PEM	--	44.861844	-97.078406	Upper Big Sioux	10170201	Desktop	2.43	59.14	0.02
Codington	SDT-208	W_10_CD_014_DT_PFO	PFO	--	44.861835	-97.078288	Upper Big Sioux	10170201	Desktop	2.44	93.18	0.12
Codington	SDT-208	W_10_CD_014_DT_PEM	PEM	--	44.861896	-97.078096	Upper Big Sioux	10170201	Desktop	2.44	0.00	0.15
Codington	SDT-208	W_10_CD_013_DT	PEM	--	44.859629	-97.078748	Upper Big Sioux	10170201	Desktop	2.58	47.10	0.68
Codington	SDT-208	W_10_CD_012_DT	PEM	--	44.853052	-97.078532	Upper Big Sioux	10170201	Desktop	3.05	65.98	0.44
Codington	SDT-208	W_10_CD_011_DT	PEM	--	44.852071	-97.078524	Upper Big Sioux	10170201	Desktop	3.12	98.64	0.62
Codington	SDT-208	W_10_CD_011_DT	PEM	--	44.851894	-97.078619	Upper Big Sioux	10170201	Desktop	3.13	58.15	0.48
Codington	SDT-208	W_10_CD_010_DT	PEM	--	44.847809	-97.084000	Upper Big Sioux	10170201	Desktop	3.68	118.83	0.72
Codington	SDT-208	W_10_CD_009_DT	PEM	--	44.845476	-97.093119	Upper Big Sioux	10170201	Desktop	4.18	644.01	1.85
Codington	SDT-208	W_9_CD_050_DT	PEM	--	44.840290	-97.107869	Upper Big Sioux	10170201	Desktop	5.00	0.00	0.26
Codington	SDT-208	W3112C0057	PEM	--	44.839047	-97.112982	Upper Big Sioux	10170201	Survey	5.24	0.00	0.31
Codington	SDT-208	W_9_CD_049_DT	PEM	--	44.838751	-97.113390	Upper Big Sioux	10170201	Desktop	5.26	0.00	0.72
Codington	SDT-208	W_9_CD_049_DT	PEM	--	44.838011	-97.116649	Upper Big Sioux	10170201	Desktop	5.45	0.00	0.69
Codington	SDT-208	W2014CD099	PEM	--	44.833498	-97.195493	Upper Big Sioux	10170201	Survey	9.44	84.16	2.17

Wetland Crossing Table												
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Codington	SDT-208	W2014CD099	PEM	--	44.833641	-97.197333	Upper Big Sioux	10170201	Survey	9.49	401.19	2.79
Codington	SDT-208	W2014CD100	PEM	--	44.833734	-97.200760	Upper Big Sioux	10170201	Survey	9.67	108.92	0.88
Codington	SDT-208	W2006CD064	PEM	--	44.833213	-97.205968	Upper Big Sioux	10170201	Survey	9.92	0.00	0.33
Codington	SDT-208	W2006CD065	PEM	--	44.832379	-97.205884	Upper Big Sioux	10170201	Survey	9.95	278.44	0.86
Codington	SDT-208	W_2_CD_094_DT	PEM	--	44.828019	-97.216125	Upper Big Sioux	10170201	Desktop	10.55	0.00	0.17
Codington	SDT-208	W2006CD066	PEM	--	44.828208	-97.216800	Upper Big Sioux	10170201	Survey	10.59	245.55	1.83
Codington	SDT-208	W2006CD067	PEM	--	44.826556	-97.222652	Upper Big Sioux	10170201	Survey	10.90	181.15	0.92
Codington	SDT-208	W_2_CD_095_DT	PEM	--	44.826826	-97.222859	Upper Big Sioux	10170201	Desktop	10.92	0.00	0.15
Codington	SDT-208	W2006CD068_PEM	PEM	--	44.824674	-97.227821	Upper Big Sioux	10170201	Survey	11.18	79.53	0.54
Codington	SDT-208	W2006CD068_PFO	PFO	--	44.825076	-97.228603	Upper Big Sioux	10170201	Survey	11.19	0.00	0.11
Codington	SDT-208	W_9_CD_091_DT_USACE	PEM	--	44.824069	-97.230493	Upper Big Sioux	10170201	Desktop	11.32	53.55	0.10
Codington	SDT-208	W_9_CD_092_DT_USACE	PEM	--	44.823788	-97.231112	Upper Big Sioux	10170201	Desktop	11.35	55.51	0.07
Codington	SDT-208	W2006CD061	PEM	--	44.820345	-97.237933	Upper Big Sioux	10170201	Survey	11.77	265.58	1.69
Codington	SDT-208	W2006CD062	PEM	--	44.817570	-97.242795	Upper Big Sioux	10170201	Survey	12.11	1,023.65	6.15
Codington	SDT-208	W2014CD097	PEM	--	44.815356	-97.248333	Upper Big Sioux	10170201	Survey	12.40	50.67	0.19
Codington	SDT-208	W2014CD098	PEM	--	44.814532	-97.250594	Upper Big Sioux	10170201	Survey	12.54	20.40	0.13
Codington	SDT-208	W2014CD098	PEM	--	44.814468	-97.250731	Upper Big Sioux	10170201	Survey	12.54	24.21	0.22
Codington	SDT-208	W2006CD057	PEM	--	44.806606	-97.274740	Middle Big Sioux Coteau	10170202	Survey	13.85	57.42	0.19
Codington	SDT-208	W2006CD058	PEM	--	44.805802	-97.277138	Middle Big Sioux Coteau	10170202	Survey	13.98	0.00	0.19
Codington	SDT-208	W2006CD059	PEM	--	44.805699	-97.278371	Middle Big Sioux Coteau	10170202	Survey	14.04	164.28	1.66
Davison	SDT-410	W_9_DV_024_DT	PEM	--	43.803559	-98.106196	Lower James	10160011	Desktop	0.19	21.80	0.05
Davison	SDT-410	W_9_DV_024_DT	PEM	--	43.803528	-98.105646	Lower James	10160011	Desktop	0.19	0.00	0.10
Davison	SDT-410	W_9_DV_025_DT	PEM	--	43.804489	-98.105775	Lower James	10160011	Desktop	0.26	87.17	0.30
Davison	SDT-410	W_9_DV_023_DT	PEM	--	43.808675	-98.100114	Lower James	10160011	Desktop	0.66	65.09	0.54
Davison	SDT-410	W_9_DV_023_DT	PEM	--	43.808876	-98.100113	Lower James	10160011	Desktop	0.67	9.90	0.03
Davison	SDT-410	W_9_DV_023_DT	PEM	--	43.808633	-98.099493	Lower James	10160011	Desktop	0.68	0.00	0.01
Davison	SDT-410	W_9_DV_026_DT	PEM	--	43.813187	-98.090863	Lower James	10160011	Desktop	1.22	151.87	1.12
Davison	SDT-410	W_9_DV_027_DT	PEM	--	43.814091	-98.087938	Lower James	10160011	Desktop	1.37	311.55	1.82
Davison	SDT-410	W_9_DV_028_DT	PEM	--	43.818683	-98.075600	Lower James	10160011	Desktop	2.09	8.71	0.21

Wetland Crossing Table												
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Davison	SDT-410	W_9_DV_028_DT	PEM	--	43.818754	-98.075780	Lower James	10160011	Desktop	2.09	31.39	0.12
Davison	SDT-410	W_9_DV_029_DT	PEM	--	43.820964	-98.066547	Lower James	10160011	Desktop	2.58	93.90	0.67
Davison	SDT-410	W_9_DV_030_DT	PEM	--	43.823977	-98.062305	Lower James	10160011	Desktop	2.87	533.99	3.55
Davison	SDT-410	W_9_DV_013_DT	PEM	--	43.825627	-98.058782	Lower James	10160011	Desktop	3.07	0.00	0.19
Davison	SDT-410	W_9_DV_040_DT	PEM	--	43.827469	-98.056672	Lower James	10160011	Desktop	3.25	75.25	0.67
Davison	SDT-410	W_9_DV_040_DT	PEM	--	43.827486	-98.056036	Lower James	10160011	Desktop	3.27	0.00	0.00
Davison	SDT-410	W_9_DV_040_DT	PEM	--	43.827769	-98.055715	Lower James	10160011	Desktop	3.29	0.00	0.03
Davison	SDT-410	W_9_DV_012_DT	PEM	--	43.830330	-98.052390	Lower James	10160011	Desktop	3.54	0.00	0.02
Davison	SDT-410	W_9_DV_011_DT	PEM	--	43.831797	-98.051770	Lower James	10160011	Desktop	3.64	0.00	0.37
Davison	SDT-410	W_9_DV_010_DT	PEM	--	43.832433	-98.050365	Lower James	10160011	Desktop	3.71	139.32	0.92
Davison	SDT-410	W_9_DV_009_DT	PEM	--	43.832815	-98.050524	Lower James	10160011	Desktop	3.73	28.33	0.20
Davison	SDT-410	W_9_DV_008_DT	PEM	--	43.833170	-98.050505	Lower James	10160011	Desktop	3.76	92.58	0.61
Davison	SDT-410	W_12_DV_006_DT	PEM	--	43.835785	-98.049605	Lower James	10160011	Desktop	3.87	138.32	2.70
Davison	SDT-410	W_12_DV_005_DT	PEM	--	43.838221	-98.048967	Lower James	10160011	Desktop	4.11	876.81	5.00
Davison	SDT-410	W_12_DV_005_DT	PEM	--	43.839808	-98.049373	Lower James	10160011	Desktop	4.23	0.00	0.04
Davison	SDT-410	W_12_DV_004_DT	PEM	--	43.840939	-98.046575	Lower James	10160011	Desktop	4.38	0.00	0.37
Davison	SDT-410	W_12_DV_003_DT	PEM	--	43.842276	-98.044645	Lower James	10160011	Desktop	4.51	241.49	1.36
Davison	SDT-410	W_12_DV_002_DT	PEM	--	43.844280	-98.041547	Lower James	10160011	Desktop	4.72	106.20	0.84
Davison	SDT-410	W_12_DV_001_DT	PEM	--	43.845292	-98.039522	Lower James	10160011	Desktop	4.85	10.77	0.11
Davison	SDT-410	W_12_DV_001_DT	PEM	--	43.845344	-98.039469	Lower James	10160011	Desktop	4.85	7.28	0.08
Davison	SDT-410	W_9_DV_043_DT	PEM	--	43.850751	-98.000971	Lower James	10160011	Desktop	6.94	23.21	0.16
Davison	SDT-410	W_9_DV_042_DT	PEM	--	43.850961	-97.996110	Lower James	10160011	Desktop	7.17	1,616.90	9.34
Edmunds	SDL-335	W2020ED013	PEM	--	45.442023	-98.785031	Snake	10160008	Survey	0.00	0.00	0.04
Edmunds	SDL-335	W2014ED016	PEM	--	45.446763	-98.786793	Snake	10160008	Survey	0.02	0.00	0.16
Edmunds	SDL-335	W2022ED039	PEM	--	45.447653	-98.786982	Snake	10160008	Survey	0.07	201.19	1.42
Edmunds	SDL-335	W2022ED040	PEM	--	45.448798	-98.785287	Snake	10160008	Survey	0.21	0.00	0.06
Edmunds	SDL-335	W2022ED041	PEM	--	45.449111	-98.784527	Snake	10160008	Survey	0.29	0.00	0.27
Edmunds	SDL-335	W2014ED117	PEM	--	45.450101	-98.782949	Snake	10160008	Survey	0.37	0.00	0.26
Edmunds	SDM-105	W_10_BR_025_DT	PEM	--	45.286412	-98.629105	Snake	10160008	Desktop	70.97	0.00	0.00

Wetland Crossing Table												
County	Route ID	Feature ID	Feature Type	Feature Name	Latitude	Longitude	HUC 8 Watershed Name	HUC 8 Watershed No.	Survey or Desktop	Approx. MP	ESC Crossing Length (ft)	ESC Total Acres
Edmunds	SDM-105	W_10_BR_025_DT	PEM	--	45.286436	-98.628979	Snake	10160008	Desktop	70.97	0.00	0.00
Edmunds	SDM-105	W2001ED025_PEM	PEM	--	45.360013	-98.729183	Snake	10160008	Survey	79.01	0.00	0.19
Edmunds	SDM-105	W2001ED025_PSS	PSS	--	45.359745	-98.729166	Snake	10160008	Survey	79.01	0.00	0.09
Edmunds	SDM-105	W2001ED024	PEM	--	45.362178	-98.729187	Snake	10160008	Survey	79.15	0.00	1.63
Edmunds	SDM-105	W_9_ED_073_DT_USACE	PEM	--	45.366238	-98.730802	Snake	10160008	Desktop	79.49	148.91	0.67
Edmunds	SDM-105	W_9_ED_072_DT_USACE	PEM	--	45.369596	-98.731201	Snake	10160008	Desktop	79.73	498.48	2.60
Edmunds	SDM-105	W2001ED023	PEM	--	45.373783	-98.731915	Snake	10160008	Survey	80.02	209.74	1.19
Edmunds	SDM-105	W2002ED035	PEM	--	45.376184	-98.732638	Snake	10160008	Survey	80.18	0.00	0.23
Edmunds	SDM-105	W2002ED034	PEM	--	45.377220	-98.733842	Snake	10160008	Survey	80.27	0.00	0.28
Edmunds	SDM-105	W_12_ED_021_DT	PEM	--	45.378119	-98.733258	Snake	10160008	Desktop	80.35	78.29	0.52
Edmunds	SDM-105	W_12_ED_020_DT	PEM	--	45.379394	-98.734229	Snake	10160008	Desktop	80.40	31.70	0.73
Edmunds	SDM-105	W_12_ED_019_DT	PEM	--	45.380099	-98.734055	Snake	10160008	Desktop	80.47	201.07	0.43
Edmunds	SDM-105	W_12_ED_020_DT	PEM	--	45.380327	-98.734684	Snake	10160008	Desktop	80.50	0.00	0.18
Edmunds	SDM-105	W_12_ED_018_DT	PEM	--	45.380730	-98.734340	Snake	10160008	Desktop	80.52	81.18	0.09
Edmunds	SDM-105	W_12_ED_017_DT	PEM	--	45.381843	-98.734418	Snake	10160008	Desktop	80.59	464.53	2.49
Edmunds	SDM-105	W_12_ED_916_DT	PEM	--	45.385381	-98.735524	Snake	10160008	Desktop	80.85	22.76	0.23
Edmunds	SDM-105	W_12_ED_016_DT	PEM	--	45.386376	-98.736283	Snake	10160008	Desktop	80.92	0.00	0.21
Edmunds	SDM-105	W_12_ED_015_DT	PEM	--	45.386966	-98.735784	Snake	10160008	Desktop	80.96	153.35	0.95
Edmunds	SDM-105	W_12_ED_014_DT	PEM	--	45.387683	-98.736839	Snake	10160008	Desktop	81.01	0.00	0.05
Edmunds	SDM-105	W_12_ED_013_DT	PEM	--	45.390320	-98.737234	Snake	10160008	Desktop	81.20	507.40	2.81
Edmunds	SDM-105	W_12_ED_012_DT	Pem	--	45.391642	-98.736940	Snake	10160008	Desktop	81.28	0.00	0.12
Edmunds	SDM-105	W_12_ED_011_DT	PEM	--	45.394615	-98.737984	Snake	10160008	Desktop	81.48	219.19	1.36
Edmunds	SDM-105	W_12_ED_010_DT	PEM	--	45.398679	-98.739631	Snake	10160008	Desktop	81.79	230.09	1.23
Edmunds	SDM-105	W_12_ED_009_DT	PEM	--	45.402039	-98.740458	Snake	10160008	Desktop	82.02	512.10	3.48
Edmunds	SDM-105	W_12_ED_008_DT	PEM	--	45.403399	-98.740952	Snake	10160008	Desktop	82.11	45.54	0.10
Edmunds	SDM-105	W_12_ED_007_DT	PEM	--	45.405073	-98.745218	Snake	10160008	Desktop	82.37	0.00	0.04
Edmunds	SDM-105	W_12_ED_005_DT	PEM	--	45.405568	-98.745133	Snake	10160008	Desktop	82.38	0.00	0.07
Edmunds	SDM-105	W_12_ED_006_DT	PEM	--	45.405219	-98.745707	Snake	10160008	Desktop	82.39	0.00	0.03
Edmunds	SDM-105	W_12_ED_004_DT	PEM	--	45.405693	-98.745443	Snake	10160008	Desktop	82.40	0.00	0.03

Wetland Crossing Table												
County	Route ID	Feature ID	Feature Type	Feature Name	Latitude	Longitude	HUC 8 Watershed Name	HUC 8 Watershed No.	Survey or Desktop	Approx. MP	ESC Crossing Length (ft)	ESC Total Acres
Edmunds	SDM-105	W_12_ED_003_DT	PEM	--	45.405841	-98.746080	Snake	10160008	Desktop	82.43	178.36	0.98
Edmunds	SDM-105	W_12_ED_002_DT	PEM	--	45.406805	-98.748977	Snake	10160008	Desktop	82.59	40.33	0.43
Edmunds	SDM-105	W_12_ED_001_DT	PEM	--	45.407237	-98.750102	Snake	10160008	Desktop	82.65	58.84	0.57
Edmunds	SDM-105	W_12_ED_022_DT	PEM	--	45.411178	-98.760865	Snake	10160008	Desktop	83.04	0.00	0.94
Edmunds	SDM-105	W2002ED026	PEM	--	45.416390	-98.755727	Snake	10160008	Survey	83.41	61.49	0.45
Edmunds	SDM-105	W2002ED025	PEM	--	45.422108	-98.757906	Snake	10160008	Survey	83.83	162.08	1.30
Edmunds	SDM-105	W2001ED047	PEM	--	45.435583	-98.760018	Snake	10160008	Survey	84.77	244.58	1.95
Edmunds	SDM-105	W2014ED113	PEM	--	45.439191	-98.760964	Snake	10160008	Survey	85.02	42.55	0.20
Edmunds	SDM-105	W2014ED112	PEM	--	45.439510	-98.761103	Snake	10160008	Survey	85.05	119.89	0.64
Edmunds	SDM-105	W_9_ED_002_DT	PEM	--	45.439706	-98.760922	Snake	10160008	Desktop	85.06	19.97	0.13
Edmunds	SDM-105	W_9_ED_001_DT	PEM	--	45.439909	-98.760970	Snake	10160008	Desktop	85.07	27.40	0.19
Edmunds	SDM-105	W2014ED111	PEM	--	45.440437	-98.761117	Snake	10160008	Survey	85.13	477.15	1.79
Edmunds	SDM-105	W_9_ED_892_DT	PEM	--	45.441937	-98.762169	Snake	10160008	Desktop	85.26	0.00	0.45
Edmunds	SDM-105	W_9_ED_125_DT	PEM	--	45.442569	-98.762081	Snake	10160008	Desktop	85.27	0.00	0.13
Edmunds	SDM-105	W2014ED110	PEM	--	45.442127	-98.763493	Snake	10160008	Survey	85.33	0.00	0.01
Edmunds	SDM-105	W2014ED109	PEM	--	45.442629	-98.763499	Snake	10160008	Survey	85.33	18.57	0.10
Edmunds	SDM-105	W_10_ED_001_DT	PEM	--	45.442276	-98.764206	Snake	10160008	Desktop	85.36	0.00	0.01
Edmunds	SDM-105	W2014ED108	PEM	--	45.442846	-98.764467	Snake	10160008	Survey	85.39	274.67	1.91
Edmunds	SDM-105	W2014ED107	PEM	--	45.443778	-98.767097	Snake	10160008	Survey	85.53	244.51	1.69
Edmunds	SDM-105	W2014ED105	PEM	--	45.444860	-98.771002	Snake	10160008	Survey	85.74	474.99	3.04
Edmunds	SDM-105	W2014ED106	PEM	--	45.445956	-98.773315	Snake	10160008	Survey	85.88	132.05	0.74
Edmunds	SDM-105	W_9_ED_800_DT	PEM	--	45.446264	-98.773189	Snake	10160008	Desktop	85.90	45.62	0.27
Edmunds	SDM-105	W2014ED115	PEM	--	45.450260	-98.779089	Snake	10160008	Survey	86.32	0.00	0.06
Edmunds	SDM-105	W2014ED114	PEM	--	45.450047	-98.780587	Snake	10160008	Survey	86.37	0.00	0.43
Edmunds	SDM-105	W2001ED115	PEM	--	45.452034	-98.783268	Snake	10160008	Survey	86.62	0.00	0.20
Edmunds	SDM-105	W2001ED116	PEM	--	45.455107	-98.783432	Snake	10160008	Survey	86.84	0.00	0.24
Edmunds	SDM-105	W2014ED119	PEM	--	45.456992	-98.781605	Snake	10160008	Survey	86.99	69.45	0.12
Edmunds	SDM-105	W2014ED120	PEM	--	45.457240	-98.781873	Snake	10160008	Survey	86.99	0.00	0.13
Edmunds	SDM-105	W2014ED118	PEM	--	45.457141	-98.780849	Snake	10160008	Survey	87.03	0.00	0.13

Wetland Crossing Table												
County	Route ID	Feature ID	Feature Type	Feature Name	Latitude	Longitude	HUC 8 Watershed Name	HUC 8 Watershed No.	Survey or Desktop	Approx. MP	ESC Crossing Length (ft)	ESC Total Acres
Edmunds	SDM-105	W2014ED121	PEM	--	45.458252	-98.781375	Snake	10160008	Survey	87.08	0.00	0.17
Edmunds	SDM-105	W2014ED122	PEM	--	45.460171	-98.781193	Snake	10160008	Survey	87.20	0.00	0.40
Edmunds	SDM-105	W2014ED123	PEM	--	45.461321	-98.780686	Snake	10160008	Survey	87.30	58.53	0.83
Edmunds	SDM-105	W2014ED124	PEM	--	45.462422	-98.781037	Snake	10160008	Survey	87.37	0.00	0.21
Edmunds	SDM-105	W2014ED125	PEM	--	45.476624	-98.783884	Snake	10160008	Survey	88.50	14.82	0.06
Edmunds	SDM-105	W2001ED123	PEM	--	45.476661	-98.784224	Snake	10160008	Survey	88.51	0.00	0.05
Edmunds	SDM-105	W2001ED123	PEM	--	45.476106	-98.784544	Snake	10160008	Survey	88.52	0.00	0.10
Edmunds	SDM-105	W2001ED124	PEM	--	45.477286	-98.786409	Snake	10160008	Survey	88.63	732.09	4.94
Edmunds	SDM-105	W2001ED124	PEM	--	45.476150	-98.787671	Snake	10160008	Survey	88.70	0.00	1.20
Edmunds	SDM-105	W2023ED170	PEM	--	45.478917	-98.791296	Snake	10160008	Survey	88.89	498.17	3.54
Edmunds	SDM-105	W2023ED171	PEM	--	45.482663	-98.793847	Snake	10160008	Survey	89.16	128.72	0.86
Edmunds	SDM-105	W2001ED127	PEM	--	45.483442	-98.802590	Snake	10160008	Survey	89.66	0.00	0.06
Edmunds	SDM-105	W2014ED015	PEM	--	45.484288	-98.810246	Snake	10160008	Survey	90.05	0.00	0.12
Edmunds	SDM-105	W_9_ED_103_DT	PEM	--	45.483770	-98.812007	Snake	10160008	Desktop	90.12	4.72	0.17
Edmunds	SDM-105	W_9_ED_102_DT	PEM	--	45.484487	-98.818246	Snake	10160008	Desktop	90.42	96.55	0.62
Edmunds	SDM-105	W_9_ED_101_DT	PEM	--	45.484811	-98.821942	Snake	10160008	Desktop	90.61	183.89	1.66
Edmunds	SDM-105	W_9_ED_100_DT	PEM	--	45.484624	-98.824303	Snake	10160008	Desktop	90.71	0.00	0.11
Edmunds	SDM-105	W_9_ED_099_DT	PEM	--	45.484766	-98.825947	Snake	10160008	Desktop	90.79	0.00	0.32
Edmunds	SDM-105	W_9_ED_098_DT	PEM	--	45.486215	-98.829357	Snake	10160008	Desktop	91.05	138.44	1.93
Edmunds	SDM-105	W_9_ED_097_DT	PEM	--	45.486177	-98.837841	Snake	10160008	Desktop	91.40	743.70	5.22
Edmunds	SDM-105	W_9_ED_095_DT	PEM	--	45.486593	-98.842751	Snake	10160008	Desktop	91.64	0.00	0.14
Edmunds	SDM-105	W_9_ED_096_DT	PEM	--	45.486199	-98.844394	Snake	10160008	Desktop	91.71	0.00	0.17
Edmunds	SDM-105	W_9_ED_094_DT	PEM	--	45.489146	-98.844179	Snake	10160008	Desktop	91.91	341.82	2.47
Edmunds	SDM-105	W_9_ED_094_DT	PEM	--	45.490692	-98.844076	Snake	10160008	Desktop	92.02	129.91	1.11
Edmunds	SDM-105	W_9_ED_093_DT	PEM	--	45.492341	-98.844241	Snake	10160008	Desktop	92.13	208.65	1.54
Edmunds	SDM-105	W_9_ED_092_DT	PEM	--	45.495762	-98.846727	Snake	10160008	Desktop	92.40	188.42	1.65
Edmunds	SDM-105	W_9_ED_091_DT	PEM	--	45.497546	-98.848538	Snake	10160008	Desktop	92.56	324.23	2.45
Edmunds	SDM-105	W_9_ED_090_DT	PEM	--	45.499382	-98.850230	Snake	10160008	Desktop	92.71	271.07	1.74
Edmunds	SDM-105	W_9_ED_089_DT	PEM	--	45.500765	-98.850612	Snake	10160008	Desktop	92.81	399.88	2.38

Wetland Crossing Table												
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Edmunds	SDM-105	W_9_ED_089_DT	PEM	--	45.502031	-98.849816	Snake	10160008	Desktop	92.90	0.00	0.23
Edmunds	SDM-105	W_9_ED_088_DT	PEM	--	45.503410	-98.849554	Snake	10160008	Desktop	93.00	34.95	0.28
Edmunds	SDM-105	W_9_ED_087_DT	PEM	--	45.504319	-98.848975	Snake	10160008	Desktop	93.05	0.00	0.95
Edmunds	SDM-105	W_9_ED_086_DT	PEM	--	45.506950	-98.848107	Snake	10160008	Desktop	93.28	0.00	0.09
Edmunds	SDM-105	W_9_ED_085_DT	PEM	--	45.507414	-98.848639	Snake	10160008	Desktop	93.29	0.00	0.49
Edmunds	SDM-105	W2014ED073	PEM	--	45.507809	-98.847501	Snake	10160008	Survey	93.32	0.00	0.00
Edmunds	SDM-105	W_9_ED_084_DT	PEM	--	45.509232	-98.849522	Snake	10160008	Desktop	93.42	0.00	0.15
Edmunds	SDM-105	W2014ED072	PEM	--	45.509355	-98.849391	Snake	10160008	Survey	93.45	0.00	0.58
Edmunds	SDM-105	W2001ED128	PEM	--	45.520428	-98.863846	Snake	10160008	Survey	94.56	0.00	0.27
Edmunds	SDM-105	W2001ED129	PEM	--	45.523751	-98.863642	Snake	10160008	Survey	94.80	0.00	0.15
Edmunds	SDM-105	W2001ED130	PEM	--	45.526386	-98.864060	Snake	10160008	Survey	94.97	831.95	5.95
Edmunds	SDM-105	W2002ED037_PSS_B	PSS	--	45.534290	-98.867225	Snake	10160008	Survey	95.56	5.85	0.07
Edmunds	SDM-105	W2002ED037_PEM	PEM	--	45.534077	-98.866518	Snake	10160008	Survey	95.57	37.46	0.36
Edmunds	SDM-105	W2002ED037_PSS	PSS	--	45.534456	-98.867187	Snake	10160008	Survey	95.57	20.33	0.09
Edmunds	SDM-105	W2002ED036	PEM	--	45.534877	-98.867489	Snake	10160008	Survey	95.61	0.00	0.04
Edmunds	SDM-105	W2014ED074	PEM	--	45.550022	-98.880260	Snake	10160008	Survey	96.88	0.00	1.22
Edmunds	SDM-105	W2014ED126	PEM	--	45.553692	-98.894798	Snake	10160008	Survey	97.68	136.93	1.26
Edmunds	SDM-105	W2244ED012	PEM	--	45.556611	-98.903643	Snake	10160008	Survey	98.17	61.91	0.43
Edmunds	SDM-105	W2023ED120	PEM	--	45.556977	-98.905610	Snake	10160008	Survey	98.23	598.30	3.93
Edmunds	SDM-105	W2023ED121	PEM	--	45.558229	-98.909628	Snake	10160008	Survey	98.44	669.47	4.99
Edmunds	SDM-105	W2023ED122	PEM	--	45.560105	-98.912964	Snake	10160008	Survey	98.67	0.00	0.40
Edmunds	SDM-105	W2023ED123	PEM	--	45.561881	-98.917906	Snake	10160008	Survey	98.93	400.81	3.51
Edmunds	SDM-105	W_9_ED_083_DT	PEM	--	45.561416	-98.918026	Snake	10160008	Desktop	98.97	0.00	0.05
Edmunds	SDM-105	W2023ED124	PEM	--	45.563183	-98.922057	Snake	10160008	Survey	99.17	548.41	3.35
Edmunds	SDM-105	W_9_ED_082_DT	PEM	--	45.562870	-98.922735	Snake	10160008	Desktop	99.18	0.00	0.00
Edmunds	SDM-105	W_9_ED_082_DT	PEM	--	45.562864	-98.922740	Snake	10160008	Desktop	99.18	0.00	0.00
Edmunds	SDM-105	W_9_ED_082_DT	PEM	--	45.562877	-98.922731	Snake	10160008	Desktop	99.18	0.00	0.00
Edmunds	SDM-105	W_9_ED_082_DT	PEM	--	45.562858	-98.922747	Snake	10160008	Desktop	99.18	0.00	0.00
Edmunds	SDM-105	W_9_ED_082_DT	PEM	--	45.562884	-98.922730	Snake	10160008	Desktop	99.18	0.00	0.00

Wetland Crossing Table												
County	Route ID	Feature ID	Feature Type	Feature Name	Latitude	Longitude	HUC 8 Watershed Name	HUC 8 Watershed No.	Survey or Desktop	Approx. MP	ESC Crossing Length (ft)	ESC Total Acres
Edmunds	SDM-105	W_9_ED_082_DT	PEM	--	45.562854	-98.922754	Snake	10160008	Desktop	99.18	0.00	0.00
Edmunds	SDM-105	W_9_ED_082_DT	PEM	--	45.562850	-98.922763	Snake	10160008	Desktop	99.18	0.00	0.00
Edmunds	SDM-105	W_9_ED_082_DT	PEM	--	45.562848	-98.922772	Snake	10160008	Desktop	99.18	0.00	0.00
Edmunds	SDM-105	W_9_ED_082_DT	PEM	--	45.562847	-98.922784	Snake	10160008	Desktop	99.18	0.00	0.00
Edmunds	SDM-105	W_9_ED_082_DT	PEM	--	45.562812	-98.922104	Snake	10160008	Desktop	99.19	0.00	0.15
Edmunds	SDM-105	W_9_ED_082_DT	PEM	--	45.562847	-98.922988	Snake	10160008	Desktop	99.19	0.00	0.00
Edmunds	SDM-105	W_9_ED_082_DT	PEM	--	45.562848	-98.922997	Snake	10160008	Desktop	99.19	0.00	0.00
Edmunds	SDM-105	W_9_ED_082_DT	PEM	--	45.562850	-98.923006	Snake	10160008	Desktop	99.19	0.00	0.00
Edmunds	SDM-105	W_9_ED_082_DT	PEM	--	45.562853	-98.923014	Snake	10160008	Desktop	99.19	0.00	0.00
Edmunds	SDM-105	W_9_ED_082_DT	PEM	--	45.562857	-98.923021	Snake	10160008	Desktop	99.19	0.00	0.00
Edmunds	SDM-105	W_9_ED_082_DT	PEM	--	45.562862	-98.923028	Snake	10160008	Desktop	99.20	0.00	0.00
Edmunds	SDM-105	W_9_ED_082_DT	PEM	--	45.562867	-98.923033	Snake	10160008	Desktop	99.20	0.00	0.00
Edmunds	SDM-105	W_9_ED_082_DT	PEM	--	45.562873	-98.923038	Snake	10160008	Desktop	99.20	0.00	0.00
Edmunds	SDM-105	W_9_ED_082_DT	PEM	--	45.562879	-98.923040	Snake	10160008	Desktop	99.20	0.00	0.00
Edmunds	SDM-105	W_9_ED_082_DT	PEM	--	45.562886	-98.923041	Snake	10160008	Desktop	99.20	0.00	0.00
Edmunds	SDM-105	W_9_ED_082_DT	PEM	--	45.563181	-98.923176	Snake	10160008	Desktop	99.20	0.00	0.03
Edmunds	SDM-105	W3919ED063	PEM	--	45.563700	-98.922418	Snake	10160008	Survey	99.22	0.00	0.05
Edmunds	SDM-105	W_9_ED_081_DT	PEM	--	45.564135	-98.926330	Snake	10160008	Desktop	99.36	0.00	0.31
Edmunds	SDM-105	W2014ED140	PEM	--	45.565375	-98.926553	Snake	10160008	Survey	99.44	0.00	0.46
Edmunds	SDM-105	W2014ED139	PEM	--	45.566713	-98.926574	Snake	10160008	Survey	99.53	0.00	0.24
Edmunds	SDM-105	W2014ED138	PEM	--	45.568917	-98.928601	Snake	10160008	Survey	99.72	148.39	0.81
Edmunds	SDM-105	W2014ED137	PEM	--	45.571227	-98.930157	Snake	10160008	Survey	99.89	91.98	0.20
Edmunds	SDM-105	W2014ED136	PEM	--	45.574570	-98.930917	Snake	10160008	Survey	100.12	501.24	3.54
Edmunds	SDM-105	W2014ED135	PEM	--	45.578813	-98.931240	Snake	10160008	Survey	100.45	337.77	0.69
Edmunds	SDM-105	W2014ED134	PEM	--	45.580294	-98.931335	Snake	10160008	Survey	100.52	51.86	0.39
Edmunds	SDM-105	W2014ED132	PEM	--	45.583309	-98.931556	Snake	10160008	Survey	100.75	4.84	0.14
Edmunds	SDM-105	W2014ED132	PEM	--	45.583537	-98.932192	Snake	10160008	Survey	100.75	0.00	0.04
Edmunds	SDM-105	W2014ED133	PEM	--	45.583721	-98.931837	Snake	10160008	Survey	100.75	20.43	0.18
Edmunds	SDM-105	W2014ED131	PEM	--	45.584850	-98.932700	Snake	10160008	Survey	100.84	0.00	0.07

Wetland Crossing Table												
County	Route ID	Feature ID	Feature Type	Feature Name	Latitude	Longitude	HUC 8 Watershed Name	HUC 8 Watershed No.	Survey or Desktop	Approx. MP	ESC Crossing Length (ft)	ESC Total Acres
Edmunds	SDM-105	W2014ED129	PEM	--	45.584884	-98.931923	Snake	10160008	Survey	100.85	12.89	0.28
Edmunds	SDM-105	W2014ED130	PEM	--	45.585188	-98.932510	Snake	10160008	Survey	100.87	52.73	0.18
Edmunds	SDM-105	W2014ED128	PEM	--	45.589062	-98.933687	Snake	10160008	Survey	101.12	0.00	0.14
Edmunds	SDM-105	W2014MP127	PEM	--	45.592385	-98.934396	Snake	10160008	Survey	101.37	0.00	0.00
Edmunds	SDM-105	W2014MP127	PEM	--	45.592640	-98.934139	Snake	10160008	Survey	101.39	259.61	0.38
Edmunds	SDT-210	W_9_ED_123_DT	PEM	--	45.416956	-98.725142	Snake	10160008	Desktop	10.74	0.00	0.68
Edmunds	SDT-210	W_9_ED_121_DT	PEM	--	45.417348	-98.729627	Snake	10160008	Desktop	10.93	764.81	3.80
Edmunds	SDT-210	W_9_ED_120_DT	PEM	--	45.417307	-98.736961	Snake	10160008	Desktop	11.30	625.99	3.32
Edmunds	SDT-210	W_9_ED_119_DT	PEM	--	45.417396	-98.741792	Snake	10160008	Desktop	11.54	469.97	2.93
Edmunds	SDT-210	W_9_ED_118_DT	PEM	--	45.418113	-98.744161	Snake	10160008	Desktop	11.66	115.01	0.91
Edmunds	SDT-210	W_9_ED_117_DT	PEM	--	45.418194	-98.744808	Snake	10160008	Desktop	11.69	0.00	0.11
Edmunds	SDT-210	W_9_ED_116_DT	PEM	--	45.418503	-98.744992	Snake	10160008	Desktop	11.70	0.00	0.12
Edmunds	SDT-210	W_9_ED_115_DT	PEM	--	45.418301	-98.745460	Snake	10160008	Desktop	11.72	0.00	0.07
Edmunds	SDT-210	W_9_ED_114_DT	PEM	--	45.417903	-98.745566	Snake	10160008	Desktop	11.72	0.00	0.13
Edmunds	SDT-210	W_9_ED_113_DT	PEM	--	45.417843	-98.746401	Snake	10160008	Desktop	11.77	0.00	0.11
Edmunds	SDT-210	W_9_ED_112_DT	PEM	--	45.418314	-98.746633	Snake	10160008	Desktop	11.78	0.00	0.01
Edmunds	SDT-210	W_9_ED_111_DT	PEM	--	45.418066	-98.746742	Snake	10160008	Desktop	11.78	38.64	0.02
Edmunds	SDT-210	W_9_ED_110_DT	PEM	--	45.418009	-98.747241	Snake	10160008	Desktop	11.81	16.26	0.03
Edmunds	SDT-210	W2002ED025	PEM	--	45.422108	-98.757906	Snake	10160008	Survey	12.50	165.34	1.30
Grant	SDL-514	W_9_GR_157_DT	PEM	--	45.300125	-96.517503	Upper Minnesota	07020001	Desktop	0.00	0.00	0.00
Grant	SDL-514	W_9_GR_157_DT	PEM	--	45.300221	-96.517143	Upper Minnesota	07020001	Desktop	0.00	0.00	0.12
Grant	SDL-514	W_9_GR_155_DT	PEM	--	45.300323	-96.518298	Upper Minnesota	07020001	Desktop	0.00	0.00	0.02
Grant	SDL-514	W_9_GR_156_DT	PEM	--	45.300143	-96.517985	Upper Minnesota	07020001	Desktop	0.01	53.56	0.15
Grant	SDL-514	W_9_GR_001_DT	PEM	--	45.289700	-96.524423	Upper Minnesota	07020001	Desktop	0.81	42.35	0.37
Grant	SDL-514	W_10_GR_002_DT	PFO	--	45.274683	-96.525992	Upper Minnesota	07020001	Desktop	1.91	0.00	0.00
Grant	SDL-514	W_10_GR_002_DT	PFO	--	45.274507	-96.525954	Upper Minnesota	07020001	Desktop	1.92	0.00	0.02
Grant	SDL-514	W_9_GR_904_DT	PEM	--	45.270179	-96.523757	Upper Minnesota	07020001	Desktop	2.25	92.67	0.80
Grant	SDL-514	W_9_GR_012_DT	PFO	--	45.257749	-96.525131	Upper Minnesota	07020001	Desktop	3.19	79.62	0.52
Grant	SDL-514	W_9_GR_905_DT	PEM	--	45.257276	-96.525081	Upper Minnesota	07020001	Desktop	3.22	231.72	1.68

Wetland Crossing Table												
County	Route ID	Feature ID	Feature Type	Feature Name	Latitude	Longitude	HUC 8 Watershed Name	HUC 8 Watershed No.	Survey or Desktop	Approx. MP	ESC Crossing Length (ft)	ESC Total Acres
Grant	SDL-514	W_9_GR_012_DT	PFO	--	45.256854	-96.525067	Upper Minnesota	07020001	Desktop	3.25	56.28	0.36
Grant	SDL-514	W_9_GR_004_DT	PFO	--	45.245975	-96.531464	Upper Minnesota	07020001	Desktop	4.22	59.55	0.41
Grant	SDL-514	W_9_GR_006_DT	PEM	--	45.228810	-96.534582	Upper Minnesota	07020001	Desktop	5.50	83.86	0.63
Grant	SDL-514	W_12_GR_003_DT	PEM	--	45.219269	-96.531834	Upper Minnesota	07020001	Desktop	6.19	27.90	0.21
Grant	SDL-514	W_12_GR_004_DT	PEM	--	45.216551	-96.534173	Upper Minnesota	07020001	Desktop	6.46	131.78	0.93
Grant	SDL-514	W_9_GR_010_DT	PEM	--	45.214885	-96.543686	Upper Minnesota	07020001	Desktop	6.94	0.00	0.10
Grant	SDL-514	W_9_GR_016_DT	PEM	--	45.194278	-96.583567	Upper Minnesota	07020001	Desktop	9.58	0.00	0.02
Grant	SDL-514	W_9_GR_016_DT	PEM	--	45.194110	-96.583857	Upper Minnesota	07020001	Desktop	9.62	0.00	0.02
Grant	SDL-514	W_9_GR_017_DT	PEM	--	45.193760	-96.583900	Upper Minnesota	07020001	Desktop	9.63	0.00	0.16
Grant	SDL-514	W_9_GR_018_DT	PEM	--	45.192141	-96.586498	Upper Minnesota	07020001	Desktop	9.81	0.00	0.21
Grant	SDL-514	W_9_GR_021_DT	PEM	--	45.187104	-96.591137	Upper Minnesota	07020001	Desktop	10.21	679.17	4.54
Grant	SDL-514	W_9_GR_893_DT	PEM	--	45.177005	-96.603690	Upper Minnesota	07020001	Desktop	11.25	685.66	4.81
Grant	SDL-514	W_9_GR_893_DT	PEM	--	45.176127	-96.606510	Upper Minnesota	07020001	Desktop	11.40	0.00	0.03
Grant	SDL-514	W_9_GR_022_DT	PEM	--	45.174605	-96.620711	Upper Minnesota	07020001	Desktop	12.09	0.00	0.98
Grant	SDL-514	W_9_GR_079_DT	PEM	--	45.175094	-96.621352	Upper Minnesota	07020001	Desktop	12.14	0.63	1.17
Grant	SDL-514	W_9_GR_023_DT	PEM	--	45.174326	-96.623525	Upper Minnesota	07020001	Desktop	12.25	367.65	1.86
Grant	SDL-514	W_9_GR_024_DT	PEM	--	45.173707	-96.625252	Upper Minnesota	07020001	Desktop	12.34	97.19	0.60
Grant	SDL-514	W_10_GR_001_DT	PEM	--	45.172931	-96.627715	Upper Minnesota	07020001	Desktop	12.49	91.73	0.59
Grant	SDL-514	W_9_GR_025_DT	PEM	--	45.157408	-96.629461	Upper Minnesota	07020001	Desktop	13.58	483.92	2.01
Grant	SDL-514	W_9_GR_026_DT	PEM	--	45.154028	-96.629631	Upper Minnesota	07020001	Desktop	13.83	225.13	1.41
Grant	SDL-514	W_9_GR_028_DT	PEM	--	45.144436	-96.640359	Upper Minnesota	07020001	Desktop	14.75	0.00	0.07
Grant	SDL-514	W_9_GR_029_DT	PEM	--	45.143072	-96.643822	Upper Minnesota	07020001	Desktop	14.96	0.00	0.27
Grant	SDL-514	W_9_GR_030_DT	PEM	--	45.142448	-96.646103	Upper Minnesota	07020001	Desktop	15.08	46.72	0.36
Grant	SDL-514	W_9_GR_031_DT	PEM	--	45.139677	-96.651802	Upper Minnesota	07020001	Desktop	15.41	0.00	0.10
Grant	SDL-514	W_9_GR_032_DT	PEM	--	45.136240	-96.661371	Upper Minnesota	07020001	Desktop	15.93	570.96	2.45
Grant	SDL-514	W_9_GR_033_DT	PEM	--	45.135702	-96.661641	Upper Minnesota	07020001	Desktop	16.00	11.57	0.22
Grant	SDL-514	W_9_GR_034_DT	PEM	--	45.134361	-96.663241	Upper Minnesota	07020001	Desktop	16.12	59.69	0.55
Grant	SDL-514	W_9_GR_035_DT	PEM	--	45.133381	-96.665080	Upper Minnesota	07020001	Desktop	16.25	166.37	0.65
Grant	SDL-514	W_9_GR_036_DT	PEM	--	45.131380	-96.668032	Upper Minnesota	07020001	Desktop	16.42	169.61	0.84

Wetland Crossing Table												
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Grant	SDL-514	W_9_GR_037_DT	PEM	--	45.128396	-96.677090	Upper Minnesota	07020001	Desktop	16.92	38.18	0.25
Grant	SDL-514	W_9_GR_038_DT	PEM	--	45.126083	-96.684194	Upper Minnesota	07020001	Desktop	17.31	62.76	0.50
Grant	SDL-514	W_9_GR_039_DT	PEM	--	45.124656	-96.687896	Upper Minnesota	07020001	Desktop	17.52	89.63	0.87
Grant	SDL-514	W_9_GR_040_DT	PFO	--	45.123863	-96.688701	Upper Minnesota	07020001	Desktop	17.58	0.00	0.17
Grant	SDL-514	W_9_GR_041_DT	PEM	--	45.115882	-96.705852	Upper Minnesota	07020001	Desktop	18.66	65.03	0.42
Grant	SDL-514	W_9_GR_042_DT	PEM	--	45.114533	-96.709303	Upper Minnesota	07020001	Desktop	18.86	0.00	0.30
Grant	SDL-514	W_9_GR_043_DT	PEM	--	45.114249	-96.710877	Upper Minnesota	07020001	Desktop	18.92	42.55	0.21
Grant	SDL-514	W_9_GR_044_DT	PEM	--	45.102115	-96.735028	Upper Minnesota	07020001	Desktop	20.59	42.06	0.30
Grant	SDL-514	W_9_GR_045_DT	PEM	--	45.098855	-96.742074	Upper Minnesota	07020001	Desktop	21.03	0.00	0.12
Grant	SDL-514	W_9_GR_046_DT	PEM	--	45.098050	-96.744727	Upper Minnesota	07020001	Desktop	21.20	10.43	0.13
Grant	SDL-514	W_9_GR_046_DT	PEM	--	45.097940	-96.745112	Upper Minnesota	07020001	Desktop	21.20	6.78	0.12
Grant	SDL-514	W_9_GR_148_DT	PEM	--	45.096707	-96.748383	Upper Minnesota	07020001	Desktop	21.36	58.07	0.38
Grant	SDL-514	W_9_GR_158_DT	PEM	--	45.096225	-96.750669	Upper Minnesota	07020001	Desktop	21.48	0.00	0.35
Grant	SDL-514	W_9_GR_159_DT	PEM	--	45.095063	-96.753782	Upper Minnesota	07020001	Desktop	21.63	17.55	0.10
Grant	SDL-514	W_9_GR_160_DT	PEM	--	45.094579	-96.754525	Upper Minnesota	07020001	Desktop	21.71	288.32	0.58
Grant	SDL-514	W_9_GR_161_DT	PEM	--	45.094608	-96.756577	Upper Minnesota	07020001	Desktop	21.79	0.00	0.10
Grant	SDL-514	W_9_GR_162_DT	PEM	--	45.094060	-96.757296	Upper Minnesota	07020001	Desktop	21.84	0.00	0.09
Grant	SDL-514	W_9_GR_163_DT	PEM	--	45.093587	-96.757925	Upper Minnesota	07020001	Desktop	21.88	0.00	0.05
Grant	SDL-514	W_9_GR_164_DT	PEM	--	45.093833	-96.758802	Upper Minnesota	07020001	Desktop	21.91	0.00	0.17
Grant	SDL-514	W_9_GR_164_DT	PEM	--	45.093179	-96.760423	Upper Minnesota	07020001	Desktop	22.01	56.93	0.37
Grant	SDL-514	W_9_GR_165_DT	PEM	--	45.092940	-96.761640	Upper Minnesota	07020001	Desktop	22.07	109.69	0.69
Grant	SDL-514	W_9_GR_053_DT	PEM	--	45.089623	-96.767061	Upper Minnesota	07020001	Desktop	22.47	79.44	0.37
Grant	SDL-514	W_9_GR_054_DT	PEM	--	45.088898	-96.772768	Upper Minnesota	07020001	Desktop	22.76	0.00	0.07
Grant	SDL-514	W_9_GR_054_DT	PEM	--	45.088871	-96.773931	Upper Minnesota	07020001	Desktop	22.79	0.00	0.22
Grant	SDL-514	W_9_GR_055_DT	PEM	--	45.086042	-96.779367	Upper Minnesota	07020001	Desktop	23.15	120.90	0.99
Grant	SDL-514	W_9_GR_056_DT	PEM	--	45.082623	-96.784652	Upper Minnesota	07020001	Desktop	23.50	0.00	0.01
Grant	SDL-514	W_9_GR_057_DT	PEM	--	45.079445	-96.791344	Upper Minnesota	07020001	Desktop	23.89	0.00	0.12
Grant	SDL-514	W_9_GR_058_DT	PEM	--	45.078131	-96.797191	Upper Minnesota	07020001	Desktop	24.17	0.00	0.46
Grant	SDL-514	W_9_GR_059_DT	PEM	--	45.077571	-96.797437	Upper Minnesota	07020001	Desktop	24.26	0.00	0.13

Wetland Crossing Table												
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Grant	SDL-514	W_9_GR_061_DT	PEM	--	45.075614	-96.801292	Upper Minnesota	07020001	Desktop	24.47	49.84	0.29
Grant	SDL-514	W_9_GR_062_DT	PEM	--	45.075223	-96.801784	Upper Minnesota	07020001	Desktop	24.50	0.00	0.06
Grant	SDL-514	W_9_GR_062_DT	PEM	--	45.075097	-96.803189	Upper Minnesota	07020001	Desktop	24.57	0.00	0.12
Grant	SDL-514	W_9_GR_063_DT	PEM	--	45.074335	-96.810476	Upper Minnesota	07020001	Desktop	24.93	96.64	0.20
Grant	SDL-514	W_9_GR_064_DT	PEM	--	45.074605	-96.816144	Upper Minnesota	07020001	Desktop	25.21	60.94	0.15
Grant	SDL-514	W_9_GR_066_DT	PEM	--	45.073828	-96.817976	Upper Minnesota	07020001	Desktop	25.32	70.91	0.82
Grant	SDL-514	W_9_GR_066_DT	PEM	--	45.073482	-96.820552	Upper Minnesota	07020001	Desktop	25.44	0.00	0.09
Grant	SDL-514	W_9_GR_067_DT	PEM	--	45.072155	-96.824370	Upper Minnesota	07020001	Desktop	25.62	1,504.32	2.77
Grant	SDL-514	W_10_GR_007_DT	PEM	--	45.068729	-96.829788	Upper Minnesota	07020001	Desktop	26.06	5.56	0.97
Grant	SDL-514	W_10_GR_006_DT	PEM	--	45.067411	-96.831059	Upper Minnesota	07020001	Desktop	26.14	47.06	0.44
Grant	SDL-514	W_10_GR_005_DT	PEM	--	45.066837	-96.831535	Upper Minnesota	07020001	Desktop	26.16	0.00	0.17
Grant	SDL-514	W_10_GR_004	PEM	--	45.066065	-96.833404	Upper Minnesota	07020001	Desktop	26.28	82.64	0.50
Grant	SDL-514	W_9_GR_069_DT	PEM	--	45.065637	-96.835597	Upper Minnesota	07020001	Desktop	26.45	33.86	1.02
Grant	SDL-514	W_9_GR_070_DT	PEM	--	45.064396	-96.842468	Upper Minnesota	07020001	Desktop	26.74	188.71	1.20
Grant	SDL-514	W_12_GR_001_DT	PEM	--	45.063980	-96.845555	Upper Minnesota	07020001	Desktop	26.88	325.93	1.89
Grant	SDL-514	W_12_GR_002_DT	PEM	--	45.062285	-96.847614	Upper Minnesota	07020001	Desktop	27.05	0.00	0.02
Grant	SDL-514	W_9_GR_071_DT	PEM	--	45.060572	-96.848112	Upper Minnesota	07020001	Desktop	27.17	0.00	0.15
Grant	SDL-514	W_9_GR_075_DT	PEM	--	45.055735	-96.856101	Upper Big Sioux	10170201	Desktop	27.74	0.00	0.00
Grant	SDL-514	W_9_GR_075_DT	PEM	--	45.055820	-96.856570	Upper Big Sioux	10170201	Desktop	27.76	81.11	0.19
Grant	SDL-514	W_9_GR_076_DT	PEM	--	45.055896	-96.857245	Upper Big Sioux	10170201	Desktop	27.79	111.63	0.23
Grant	SDL-514	W_9_GR_073_DT	PEM	--	45.056493	-96.857750	Upper Big Sioux	10170201	Desktop	27.82	0.00	0.07
Grant	SDL-514	W_9_GR_074_DT	PEM	--	45.056439	-96.858349	Upper Big Sioux	10170201	Desktop	27.85	0.00	0.10
Grant	SDL-514	W_9_GR_078_DT	PEM	--	45.055434	-96.877089	Upper Big Sioux	10170201	Desktop	28.77	171.83	1.16
Hamlin	SDT-208	W3112CO055	PEM	--	44.838237	-97.117350	Upper Big Sioux	10170201	Survey	5.49	303.54	1.48
Hamlin	SDT-208	W3112CO058	PEM	--	44.804347	-97.281491	Middle Big Sioux Coteau	10170202	Survey	14.20	0.00	0.12
Hamlin	SDT-208	W2023HA179	PEM	--	44.800587	-97.289170	Middle Big Sioux Coteau	10170202	Survey	14.71	21.20	0.16
Hamlin	SDT-208	W3112HM059	PEM	--	44.800155	-97.289848	Middle Big Sioux Coteau	10170202	Survey	14.72	9.66	0.66
Hamlin	SDT-208	W3112HM060	PEM	--	44.797875	-97.299585	Middle Big Sioux Coteau	10170202	Survey	15.25	56.02	0.53
Hamlin	SDT-208	W3919HM337	PEM	--	44.796836	-97.302998	Middle Big Sioux Coteau	10170202	Survey	15.44	340.17	2.71

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Hamlin	SDT-208	W2015HA202	PEM	--	44.789641	-97.315749	Middle Big Sioux Coteau	10170202	Survey	16.27	0.00	0.01
Hamlin	SDT-208	W2015HA202	PEM	--	44.789156	-97.315567	Middle Big Sioux Coteau	10170202	Survey	16.27	48.87	0.25
Hamlin	SDT-208	W2015HA202	PEM	--	44.789635	-97.315859	Middle Big Sioux Coteau	10170202	Survey	16.27	0.00	0.02
Hamlin	SDT-208	W2015HA202	PEM	--	44.789111	-97.316011	Middle Big Sioux Coteau	10170202	Survey	16.29	133.12	0.85
Hamlin	SDT-208	W3112HM062	PEM	--	44.788428	-97.319111	Middle Big Sioux Coteau	10170202	Survey	16.50	0.00	0.67
Hamlin	SDT-208	W2006HA052	PEM	--	44.786484	-97.325460	Middle Big Sioux Coteau	10170202	Survey	16.82	1,993.76	12.67
Hamlin	SDT-208	W2014HA096	PEM	--	44.773918	-97.353039	Middle Big Sioux Coteau	10170202	Survey	18.45	0.00	0.01
Hamlin	SDT-208	W2014HA096	PEM	--	44.773965	-97.353116	Middle Big Sioux Coteau	10170202	Survey	18.46	0.00	0.03
Hamlin	SDT-208	W2006HA053	PEM	--	44.772624	-97.354905	Middle Big Sioux Coteau	10170202	Survey	18.62	3.19	0.10
Hamlin	SDT-208	W2006HA053	PEM	--	44.772505	-97.355205	Middle Big Sioux Coteau	10170202	Survey	18.63	20.11	0.13
Hamlin	SDT-208	W2006HA054	PEM	--	44.762633	-97.368052	Middle Big Sioux Coteau	10170202	Survey	19.55	583.03	3.21
Hamlin	SDT-208	W2006HA055	PEM	--	44.761300	-97.370055	Middle Big Sioux Coteau	10170202	Survey	19.70	24.42	0.17
Hamlin	SDT-208	W2006HA056	PEM	--	44.759564	-97.372243	Middle Big Sioux Coteau	10170202	Survey	19.85	11.60	0.08
Hamlin	SDT-208	W2014HA095	PEM	--	44.749174	-97.383022	Middle Big Sioux Coteau	10170202	Survey	20.74	0.00	0.99
Hamlin	SDT-208	W2014HA095	PEM	--	44.748697	-97.382783	Middle Big Sioux Coteau	10170202	Survey	20.77	306.72	1.57
Hamlin	SDT-208	W_9_HA_008_DT	PEM	--	44.745907	-97.385581	Middle Big Sioux Coteau	10170202	Desktop	21.01	73.66	0.51
Hamlin	SDT-208	W_9_HA_007_DT	PEM	--	44.743414	-97.388262	Middle Big Sioux Coteau	10170202	Desktop	21.22	400.49	1.88
Hamlin	SDT-208	W3112HM063	PEM	--	44.733006	-97.413725	Middle Big Sioux Coteau	10170202	Survey	22.69	312.93	1.71
Hamlin	SDT-208	W2014HA093_PFO	PFO	--	44.725819	-97.429493	Middle Big Sioux Coteau	10170202	Survey	23.62	0.00	0.13
Hamlin	SDT-208	W2014HA093_PEM	PEM	--	44.725358	-97.430027	Middle Big Sioux Coteau	10170202	Survey	23.66	462.11	2.73
Hamlin	SDT-208	W2014HA094	PEM	--	44.725062	-97.430963	Middle Big Sioux Coteau	10170202	Survey	23.71	17.89	0.09
Hamlin	SDT-208	W2015HA201	PEM	--	44.720073	-97.436789	Middle Big Sioux Coteau	10170202	Survey	24.15	0.00	0.10
Hamlin	SDT-208	W2015HA200	PEM	--	44.717455	-97.440981	Middle Big Sioux Coteau	10170202	Survey	24.42	0.00	0.28
Hamlin	SDT-208	W2015HA199	PEM	--	44.715144	-97.444781	Middle Big Sioux Coteau	10170202	Survey	24.68	294.70	2.01
Hamlin	SDT-208	W2015HA198	PEM	--	44.709953	-97.460851	Middle Big Sioux Coteau	10170202	Survey	25.54	39.01	0.76
Hamlin	SDT-208	W2015HA197	PSS	--	44.709179	-97.463674	Middle Big Sioux Coteau	10170202	Survey	25.72	0.00	0.32
Hamlin	SDT-208	W2015HA196	PEM	--	44.707766	-97.467434	Middle Big Sioux Coteau	10170202	Survey	25.92	592.65	3.79
Hamlin	SDT-208	W2015HA203	PSS	--	44.706773	-97.471097	Middle Big Sioux Coteau	10170202	Survey	26.11	0.00	0.21
Hamlin	SDT-208	W2006HA042	PEM	--	44.697628	-97.490434	Middle Big Sioux Coteau	10170202	Survey	27.32	83.95	0.10

Wetland Crossing Table												
County	Route ID	Feature ID	Feature Type	Feature Name	Latitude	Longitude	HUC 8 Watershed Name	HUC 8 Watershed No.	Survey or Desktop	Approx. MP	ESC Crossing Length (ft)	ESC Total Acres
Hamlin	SDT-208	W_10_HA_001_DT	PEM	--	44.697199	-97.490332	Middle Big Sioux Coteau	10170202	Desktop	27.37	0.00	0.25
Hamlin	SDT-208	W2006HA042	PEM	--	44.697275	-97.491512	Middle Big Sioux Coteau	10170202	Survey	27.39	202.48	0.55
Hamlin	SDT-208	W2015CL162	PEM	--	44.697424	-97.492101	Middle Big Sioux Coteau	10170202	Survey	27.42	13.24	0.26
Hamlin	SDT-208	W2015CL161	PEM	--	44.696713	-97.492449	Middle Big Sioux Coteau	10170202	Survey	27.46	133.90	0.77
Hamlin	SDT-208	W2015CL160	PEM	--	44.696399	-97.492579	Middle Big Sioux Coteau	10170202	Survey	27.48	40.21	0.28
Hamlin	SDT-208	W2015CL159	PEM	--	44.690456	-97.495668	Middle Big Sioux Coteau	10170202	Survey	27.93	58.36	0.34
Hamlin	SDT-208	W2015CL158	PEM	--	44.689176	-97.497921	Middle Big Sioux Coteau	10170202	Survey	28.07	147.06	0.52
Hand	SDL-320	W2011HN038	PEM	--	44.791122	-99.302679	Turtle	10160009	Survey	39.71	94.69	0.60
Hand	SDL-320	W2244HA010	PEM	--	44.791514	-99.287259	Turtle	10160009	Survey	40.46	621.69	2.65
Hand	SDL-320	W2244HA011	PEM	--	44.791692	-99.284506	Turtle	10160009	Survey	40.60	0.00	0.22
Hand	SDL-320	W2001HN074	PEM	--	44.795258	-99.259859	Turtle	10160009	Survey	41.85	0.00	0.14
Hand	SDL-320	W2001HN073	PEM	--	44.795525	-99.256415	Turtle	10160009	Survey	42.03	78.23	0.14
Hand	SDL-320	W2001HN072	PEM	--	44.796654	-99.242919	Turtle	10160009	Survey	42.70	97.17	0.32
Hand	SDL-320	W2001HN071	PEM	--	44.796705	-99.241079	Turtle	10160009	Survey	42.78	0.00	0.13
Hand	SDL-320	W_2_HA_123_DT	PEM	--	44.796612	-99.240926	Turtle	10160009	Desktop	42.79	0.00	0.02
Hand	SDL-320	W2001HN070	PEM	--	44.797747	-99.232642	Turtle	10160009	Survey	43.21	195.67	1.05
Hand	SDL-320	W2001HN069	PEM	--	44.801212	-99.215733	Turtle	10160009	Survey	44.07	36.46	0.22
Hand	SDL-320	W2001HN068	PEM	--	44.808672	-99.190922	Turtle	10160009	Survey	45.46	0.00	0.02
Hand	SDL-320	W2015HN070	PEM	--	44.808991	-99.191199	Turtle	10160009	Survey	45.47	16.56	0.04
Hand	SDL-320	W2014HN028	PEM	--	44.809718	-99.190522	Turtle	10160009	Survey	45.50	21.96	0.50
Hand	SDL-320	W2014HN029	PEM	--	44.809902	-99.186538	Turtle	10160009	Survey	45.70	93.50	1.09
Hand	SDL-320	W2001HN063	PEM	--	44.809820	-99.180346	Turtle	10160009	Survey	46.02	208.84	1.35
Hand	SDL-320	W2001HN062	PEM	--	44.810098	-99.177875	Turtle	10160009	Survey	46.13	135.02	0.75
Hand	SDL-320	W2001HN061	PEM	--	44.810835	-99.170196	Turtle	10160009	Survey	46.52	0.00	0.02
Hand	SDL-320	W_2_HA_125_DT	PEM	--	44.810363	-99.166389	Turtle	10160009	Desktop	46.70	0.00	0.01
Hand	SDL-320	W2001HN060	PEM	--	44.810778	-99.166238	Turtle	10160009	Survey	46.71	43.12	0.14
Hand	SDL-320	W_2_HA_126_DT	PEM	--	44.811068	-99.153681	Turtle	10160009	Desktop	47.32	0.00	0.08
Hand	SDL-320	W2001HN059	PEM	--	44.811515	-99.153494	Turtle	10160009	Survey	47.34	316.02	1.65
Hand	SDL-320	W_2_HA_127_DT	PEM	--	44.811111	-99.152946	Turtle	10160009	Desktop	47.35	0.00	0.06

Wetland Crossing Table												
County	Route ID	Feature ID	Feature Type	Feature Name	Latitude	Longitude	HUC 8 Watershed Name	HUC 8 Watershed No.	Survey or Desktop	Approx. MP	ESC Crossing Length (ft)	ESC Total Acres
Hand	SDL-320	W2020HN014	PEM	--	44.810251	-99.150052	Turtle	10160009	Survey	47.50	0.00	0.01
Hand	SDL-320	W2014HN027	PEM	--	44.816352	-99.109247	Turtle	10160009	Survey	49.54	9.12	0.04
Hand	SDL-320	W2014HN026	PEM	--	44.816323	-99.109007	Turtle	10160009	Survey	49.56	7.69	0.03
Hand	SDL-320	W2014HN025	PEM	--	44.819583	-99.091745	Turtle	10160009	Survey	50.43	34.26	0.27
Hand	SDL-320	W2014HN024	PEM	--	44.820052	-99.088897	Turtle	10160009	Survey	50.58	0.00	0.03
Hand	SDL-320	W2010HN001	PEM	--	44.825186	-99.060730	Turtle	10160009	Survey	52.04	0.00	0.04
Hand	SDL-320	W2014HN023	PEM	--	44.828826	-99.049532	Turtle	10160009	Survey	52.64	68.47	0.46
Hand	SDL-320	W2014HN102	PEM	--	44.830556	-99.039265	Turtle	10160009	Survey	53.17	0.00	0.18
Hand	SDL-320	W2014HN101	PEM	--	44.829839	-99.036403	Turtle	10160009	Survey	53.30	0.00	0.15
Hand	SDL-320	W2022HN050	PEM	--	44.830243	-99.027432	Turtle	10160009	Survey	53.74	31.43	0.04
Hand	SDL-320	W2022HN051	PEM	--	44.829971	-99.025844	Turtle	10160009	Survey	53.82	0.00	0.07
Hand	SDL-320	W2022HN052	PEM	--	44.830493	-99.025302	Turtle	10160009	Survey	53.83	0.00	0.32
Hand	SDL-320	W2022HN053	PEM	--	44.830493	-99.022843	Turtle	10160009	Survey	53.97	0.00	0.03
Hand	SDL-320	W2022HN054	PEM	--	44.830318	-99.018659	Turtle	10160009	Survey	54.17	49.83	0.12
Hand	SDL-320	W2014HN103	PEM	--	44.833892	-99.014004	Turtle	10160009	Survey	54.51	25.83	0.29
Hand	SDL-320	W2005HN104	PEM	--	44.836780	-98.990051	Turtle	10160009	Survey	55.80	0.00	0.17
Hand	SDL-320	W2005HN103	PEM	--	44.837363	-98.988659	Turtle	10160009	Survey	55.87	203.88	0.74
Hand	SDL-320	W_2_HN_145_DT	PEM	--	44.837526	-98.987686	Turtle	10160009	Desktop	55.92	0.00	0.01
Hand	SDL-320	W2002HA112	PEM	--	44.836971	-98.976865	Turtle	10160009	Survey	56.45	0.00	0.45
Hand	SDL-320	W2014HN022	PEM	--	44.838487	-98.971558	Turtle	10160009	Survey	56.72	0.00	0.10
Hand	SDL-320	W2015HN075	PEM	--	44.841828	-98.962704	Turtle	10160009	Survey	57.22	0.00	0.51
Hand	SDL-320	W2002HA069	PEM	--	44.841374	-98.956312	Turtle	10160009	Survey	57.54	0.00	0.53
Hand	SDL-320	W2015HN074	PEM	--	44.842015	-98.953797	Turtle	10160009	Survey	57.63	0.00	1.02
Hand	SDL-320	W2002HA070	PEM	--	44.841629	-98.949226	Turtle	10160009	Survey	57.86	289.58	1.55
Hand	SDL-320	W2002HA070	PEM	--	44.841341	-98.947158	Turtle	10160009	Survey	57.98	0.00	0.22
Hand	SDL-320	W2023HN108	PEM	--	44.841339	-98.940869	Turtle	10160009	Survey	58.28	0.00	0.13
Hand	SDL-320	W2001HN112	PEM	--	44.841654	-98.938344	Turtle	10160009	Survey	58.41	165.90	0.84
Hand	SDL-320	W2022HN021	PEM	--	44.841647	-98.935949	Turtle	10160009	Survey	58.52	0.00	0.05
Hand	SDL-320	W2001HN113	PEM	--	44.842843	-98.931520	Turtle	10160009	Survey	58.76	23.23	0.05

Wetland Crossing Table												
County	Route ID	Feature ID	Feature Type	Feature Name	Latitude	Longitude	HUC 8 Watershed Name	HUC 8 Watershed No.	Survey or Desktop	Approx. MP	ESC Crossing Length (ft)	ESC Total Acres
Hand	SDL-320	W2001HN114	PEM	--	44.843245	-98.928816	Turtle	10160009	Survey	58.89	50.36	0.17
Hand	SDL-320	W2005HN110	PEM	--	44.843216	-98.927277	Turtle	10160009	Survey	58.96	66.62	0.08
Hand	SDL-320	W2005HN109	PEM	--	44.842986	-98.924975	Turtle	10160009	Survey	59.08	217.83	1.45
Hand	SDL-320	W_2_HA_130_DT	PEM	--	44.842564	-98.924931	Turtle	10160009	Desktop	59.10	0.00	0.06
Hand	SDL-320	W_2_HA_623_DT	PEM	--	44.842594	-98.920506	Turtle	10160009	Desktop	59.30	0.00	0.04
Hand	SDL-320	W2005HN108	PEM	--	44.842904	-98.920459	Turtle	10160009	Survey	59.30	19.11	0.14
Hand	SDL-320	W_2_HA_624_DT	PEM	--	44.842597	-98.919965	Turtle	10160009	Desktop	59.33	0.00	0.03
Hand	SDL-320	W_2_HA_625_DT	PEM	--	44.842604	-98.918885	Turtle	10160009	Desktop	59.38	0.00	0.06
Hand	SDL-320	W2005HN107	PEM	--	44.842729	-98.917185	Turtle	10160009	Survey	59.41	840.24	2.71
Hand	SDL-320	W_2_HA_626_DT	PEM	--	44.842618	-98.917235	Turtle	10160009	Desktop	59.49	0.00	0.33
Hand	SDL-320	W_2_HA_627_DT	PEM	--	44.842619	-98.915344	Turtle	10160009	Desktop	59.53	0.00	0.18
Hand	SDL-320	W2005HN106	PEM	--	44.842994	-98.915207	Turtle	10160009	Survey	59.56	130.03	0.77
Hand	SDL-320	W_2_HA_628_DT	PEM	--	44.842608	-98.907224	Turtle	10160009	Desktop	59.95	0.00	0.00
Hand	SDL-320	W2005HN105	PEM	--	44.843028	-98.907217	Turtle	10160009	Survey	59.95	11.06	0.07
Hand	SDL-320	W2004HN097	PEM	--	44.843448	-98.877718	Turtle	10160009	Survey	61.40	775.64	5.32
Hand	SDL-320	W2005HN112	PEM	--	44.843857	-98.859827	Turtle	10160009	Survey	62.28	720.30	4.10
Hand	SDL-320	W_2_HA_701_DT	PEM	--	44.843440	-98.859746	Turtle	10160009	Desktop	62.34	0.00	0.99
Hand	SDL-320	W2005HN111_PEM	PEM	--	44.843997	-98.846226	Turtle	10160009	Survey	62.96	0.00	0.21
Hand	SDL-320	W2005HN111_PFO	PFO	--	44.843999	-98.845940	Turtle	10160009	Survey	62.96	0.00	0.04
Hand	SDL-320	W2005HN113	PEM	--	44.843555	-98.845250	Turtle	10160009	Survey	62.99	174.37	1.19
Hand	SDL-320	W2011HN037	PEM	--	44.846259	-98.839925	Turtle	10160009	Survey	63.32	1,192.93	8.55
Hand	SDL-320	W2011HN036	PEM	--	44.848509	-98.835407	Turtle	10160009	Survey	63.58	154.75	1.01
Hand	SDL-320	W2011HN035	PEM	--	44.849485	-98.834286	Turtle	10160009	Survey	63.66	0.00	0.13
Hand	SDL-320	W2011HN034	PEM	--	44.849279	-98.833036	Turtle	10160009	Survey	63.71	0.00	0.43
Hand	SDL-320	W2011HN033	PEM	--	44.851129	-98.830828	Turtle	10160009	Survey	63.87	0.00	0.24
Hand	SDL-320	W2012HN016	PEM	--	44.852653	-98.826271	Turtle	10160009	Survey	64.10	0.00	0.10
Hand	SDL-320	W2012HN015	PEM	--	44.855566	-98.820089	Turtle	10160009	Survey	64.49	33.74	0.22
Hand	SDL-320	W2012HN014	PEM	--	44.857045	-98.814625	Turtle	10160009	Survey	64.78	142.92	0.81
Hand	SDL-320	W2012HN013_W1	PEM	--	44.859257	-98.809907	Turtle	10160009	Survey	65.07	94.93	0.64

Wetland Crossing Table												
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Hand	SDL-320	W2012HN012	PEM	--	44.860084	-98.807308	Turtle	10160009	Survey	65.21	202.69	0.97
Hand	SDL-320	W2012HN011	PEM	--	44.861117	-98.804696	Turtle	10160009	Survey	65.34	299.89	1.77
Hand	SDL-320	W2012HN011	PEM	--	44.861758	-98.802641	Turtle	10160009	Survey	65.46	476.14	3.16
Hand	SDL-320	W2012HN010	PEM	--	44.862528	-98.801184	Turtle	10160009	Survey	65.56	69.99	0.33
Hand	SDL-320	W2012HN009	PEM	--	44.862935	-98.800048	Turtle	10160009	Survey	65.61	0.00	0.04
Hand	SDL-320	W2012HN008	PEM	--	44.863460	-98.797630	Turtle	10160009	Survey	65.74	182.59	1.08
Hand	SDL-320	W2012HN007	PEM	--	44.865592	-98.790300	Turtle	10160009	Survey	66.13	924.65	5.08
Hand	SDL-320	W2012HN007	PEM	--	44.866689	-98.787318	Turtle	10160009	Survey	66.29	0.00	0.00
Hand	SDL-320	W2012HN005	PEM	--	44.866999	-98.783822	Turtle	10160009	Survey	66.45	180.86	0.95
Hand	SDL-320	W2015HN062	PEM	--	44.870926	-98.786213	Turtle	10160009	Survey	66.48	0.00	0.36
Hand	SDL-320	W2012HN004	PEM	--	44.867721	-98.781556	Turtle	10160009	Survey	66.59	620.91	4.23
Hand	SDL-320	W2012HN004	PEM	--	44.869109	-98.782099	Turtle	10160009	Survey	66.60	0.00	0.22
Hand	SDL-320	W2015HN063	PEM	--	44.868466	-98.776176	Turtle	10160009	Survey	66.84	0.00	0.22
Hand	SDL-320	W2015HN064	PEM	--	44.868005	-98.774363	Turtle	10160009	Survey	66.93	143.28	0.48
Hand	SDL-320	W2015HN065	PEM	--	44.868457	-98.772700	Turtle	10160009	Survey	67.01	0.00	0.42
Hand	SDL-320	W2015HN066	PEM	--	44.867869	-98.770043	Turtle	10160009	Survey	67.11	0.00	1.82
Hand	SDL-320	W2015HN067	PEM	--	44.868450	-98.767938	Turtle	10160009	Survey	67.27	0.00	0.82
Hand	SDL-320	W2015HN066	PEM	--	44.867816	-98.766752	Turtle	10160009	Survey	67.30	0.00	0.19
Hand	SDL-320	W2015HN068	PEM	--	44.867821	-98.756799	Turtle	10160009	Survey	67.80	0.00	0.16
Hand	SDL-320	W2010HN002	PEM	--	44.867779	-98.753875	Turtle	10160009	Survey	67.95	0.00	0.18
Hand	SDL-320	W2015HN061	PEM	--	44.867731	-98.745833	Turtle	10160009	Survey	68.33	88.05	0.31
Hand	SDL-320	W2015HN060	PEM	--	44.867533	-98.740420	Turtle	10160009	Survey	68.59	0.00	0.04
Hand	SDL-320	W2001SP064	PEM	--	44.871078	-98.737014	Turtle	10160009	Survey	68.89	122.49	0.49
Hand	SDL-320	W2004HN068	PEM	--	44.871258	-98.735027	Turtle	10160009	Survey	69.00	560.60	2.42
Hand	SDL-320	W2004HN067	PEM	--	44.872817	-98.729643	Turtle	10160009	Survey	69.28	0.00	0.18
Hand	SDL-320	W2011HN032	PEM	--	44.876384	-98.722109	Turtle	10160009	Survey	69.76	948.16	7.04
Hand	SDL-320	W2011HN031	PEM	--	44.876120	-98.715758	Turtle	10160009	Survey	70.08	129.96	0.28
Hand	SDL-320	W2011HN030	PEM	--	44.876509	-98.713468	Snake	10160008	Survey	70.18	26.20	0.58
Hand	SDL-320	W2011HN029	PEM	--	44.876319	-98.710198	Snake	10160008	Survey	70.38	397.85	3.10

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Hand	SDL-320	W2004HN060	PEM	--	44.876307	-98.707547	Snake	10160008	Survey	70.54	0.00	0.46
Hand	SDL-320	W2004HN059	PEM	--	44.876878	-98.706170	Snake	10160008	Survey	70.55	85.94	0.74
Hand	SDL-320	W2011SP028	PEM	--	44.877439	-98.704296	Snake	10160008	Survey	70.67	0.00	0.52
Hyde	SDL-320	W2015SU083	PEM	--	44.750541	-99.676422	Medicine Knoll	10140103	Survey	19.74	0.00	0.33
Hyde	SDL-320	W_9_HY_515_DT	PEM	--	44.751413	-99.670303	Medicine Knoll	10140103	Desktop	20.05	0.00	0.31
Hyde	SDL-320	W_9_HY_516_DT	PEM	--	44.753218	-99.654357	Medicine Knoll	10140103	Desktop	20.83	0.00	0.05
Hyde	SDL-320	W3919HY306	PEM	--	44.753239	-99.654193	Medicine Knoll	10140103	Survey	20.84	0.00	0.08
Hyde	SDL-320	W3919HY307	PEM	--	44.754065	-99.651900	Medicine Knoll	10140103	Survey	20.96	383.14	1.83
Hyde	SDL-320	W3919HY308	PEM	--	44.754761	-99.645142	Medicine Knoll	10140103	Survey	21.31	0.00	0.36
Hyde	SDL-320	W3919HY309	PEM	--	44.755331	-99.642520	Medicine Knoll	10140103	Survey	21.43	451.02	2.99
Hyde	SDL-320	W3919HY310	PEM	--	44.756157	-99.635089	Medicine Knoll	10140103	Survey	21.78	269.79	1.51
Hyde	SDL-320	W2001HY099	PEM	--	44.760981	-99.599858	Medicine Knoll	10140103	Survey	23.57	0.00	0.16
Hyde	SDL-320	W2001HY100	PEM	--	44.764493	-99.582426	Medicine Knoll	10140103	Survey	24.46	20.35	0.19
Hyde	SDL-320	W2001HY101	PEM	--	44.766676	-99.576488	Medicine Knoll	10140103	Survey	24.77	124.80	0.63
Hyde	SDL-320	W2007HY033	PEM	--	44.772111	-99.560723	Medicine Knoll	10140103	Survey	25.65	0.00	0.42
Hyde	SDL-320	W_2_HY_041_DT	PEM	--	44.772021	-99.560563	Medicine Knoll	10140103	Desktop	25.67	0.00	0.05
Hyde	SDL-320	W2007HY034	PEM	--	44.775635	-99.552004	Medicine Knoll	10140103	Survey	26.14	41.77	0.30
Hyde	SDL-320	W_2_HY_042_DT	PEM	--	44.775447	-99.551808	Medicine Knoll	10140103	Desktop	26.14	0.00	0.02
Hyde	SDL-320	W_2_HY_043_DT	PEM	--	44.776645	-99.548700	Turtle	10160009	Desktop	26.29	0.00	0.07
Hyde	SDL-320	W2007HY035	PEM	--	44.777011	-99.548767	Turtle	10160009	Survey	26.32	225.43	1.51
Hyde	SDL-320	W2015HY082	PEM	--	44.779193	-99.540041	Turtle	10160009	Survey	26.79	0.00	0.20
Hyde	SDL-320	W2001HY102	PEM	--	44.778917	-99.524853	Turtle	10160009	Survey	27.52	26.16	1.29
Hyde	SDL-320	W2020HY015	PEM	--	44.778800	-99.516288	Turtle	10160009	Survey	27.98	174.97	0.88
Hyde	SDL-320	W2015HY188	PEM	--	44.778799	-99.510444	Turtle	10160009	Survey	28.26	8.85	0.47
Hyde	SDL-320	W2015HY187	PEM	--	44.776851	-99.491478	Turtle	10160009	Survey	29.23	37.59	0.21
Hyde	SDL-320	W2015HY080	PEM	--	44.776822	-99.491100	Turtle	10160009	Survey	29.25	78.91	0.44
Hyde	SDL-320	W2015HY079	PEM	--	44.777355	-99.486063	Turtle	10160009	Survey	29.50	0.00	0.11
Hyde	SDL-320	W2015HY078	PEM	--	44.776979	-99.483788	Turtle	10160009	Survey	29.61	119.79	0.81
Hyde	SDL-320	W2015HY081	PEM	--	44.779882	-99.470996	Turtle	10160009	Survey	30.29	0.00	0.02

Wetland Crossing Table												
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Hyde	SDL-320	W2001HY161	PEM	--	44.779886	-99.470737	Turtle	10160009	Survey	30.30	0.00	0.01
Hyde	SDL-320	W_10_HY_001_DT	PEM	--	44.780452	-99.444201	Turtle	10160009	Desktop	31.69	0.00	0.47
Hyde	SDL-320	W_10_HY_002_DT	PEM	--	44.780835	-99.440477	Turtle	10160009	Desktop	31.86	0.00	0.19
Hyde	SDL-320	W_10_HY_003_DT	PEM	--	44.780185	-99.439101	Turtle	10160009	Desktop	31.92	598.80	1.02
Hyde	SDL-320	W_10_HY_004_DT	PEM	--	44.779330	-99.438649	Turtle	10160009	Desktop	32.01	0.00	0.68
Hyde	SDL-320	W_10_HY_005_DT	PEM	--	44.778430	-99.433893	Turtle	10160009	Desktop	32.25	106.57	0.56
Hyde	SDL-320	W_10_HY_006_DT	PEM	--	44.778052	-99.431279	Turtle	10160009	Desktop	32.38	29.30	0.36
Hyde	SDL-320	W_10_HY_007_DT	PEM	--	44.776422	-99.421572	Turtle	10160009	Desktop	32.87	36.18	0.61
Hyde	SDL-320	W_10_HY_008_DT	PEM	--	44.770835	-99.404032	Turtle	10160009	Desktop	33.85	54.53	0.70
Hyde	SDL-320	W_10_HY_009_DT	PEM	--	44.770327	-99.401809	Turtle	10160009	Desktop	33.98	0.00	0.39
Hyde	SDL-320	W_10_HY_010_DT	PEM	--	44.768049	-99.392929	Turtle	10160009	Desktop	34.44	378.25	1.75
Hyde	SDL-320	W_10_HY_011_DT	PEM	--	44.767836	-99.389980	Turtle	10160009	Desktop	34.58	0.00	0.20
Hyde	SDL-320	W_10_HY_912_DT	PEM	--	44.768678	-99.387129	Turtle	10160009	Desktop	34.73	0.00	0.14
Hyde	SDL-320	W_10_HY_912_DT	PEM	--	44.768740	-99.385565	Turtle	10160009	Desktop	34.81	0.00	0.11
Hyde	SDL-320	W_10_HY_012_DT	PEM	--	44.768557	-99.383877	Turtle	10160009	Desktop	34.88	108.11	0.65
Hyde	SDL-320	W_10_HY_013_DT	PEM	--	44.768746	-99.381339	Turtle	10160009	Desktop	35.01	36.55	0.37
Hyde	SDL-320	W_10_HY_014_DT	PEM	--	44.769100	-99.378594	Turtle	10160009	Desktop	35.14	128.51	1.13
Hyde	SDL-320	W_10_HY_015_DT	PEM	--	44.769435	-99.376997	Turtle	10160009	Desktop	35.22	109.82	1.28
Hyde	SDL-320	W_10_HY_016_DT	PEM	--	44.770135	-99.374298	Turtle	10160009	Desktop	35.37	139.89	0.32
Hyde	SDL-320	W_10_HY_017_DT	PEM	--	44.770088	-99.373401	Turtle	10160009	Desktop	35.42	66.09	0.33
Hyde	SDL-320	W_10_HY_018_DT	PEM	--	44.769838	-99.372543	Turtle	10160009	Desktop	35.46	0.00	0.23
Hyde	SDL-320	W_10_HY_019_DT	PEM	--	44.770163	-99.372081	Turtle	10160009	Desktop	35.48	28.47	0.24
Hyde	SDL-320	W_10_HY_020_DT	PEM	--	44.769888	-99.371488	Turtle	10160009	Desktop	35.50	0.00	0.05
Hyde	SDL-320	W_10_HY_021_DT	PEM	--	44.771031	-99.366683	Turtle	10160009	Desktop	35.75	0.00	0.04
Hyde	SDL-320	W_10_HY_022_DT	PEM	--	44.771540	-99.366634	Turtle	10160009	Desktop	35.76	0.00	0.08
Hyde	SDL-320	W_10_HY_023_DT	PEM	--	44.771193	-99.366050	Turtle	10160009	Desktop	35.78	0.00	0.11
Hyde	SDL-320	W_10_HY_024_DT	PEM	--	44.771973	-99.365569	Turtle	10160009	Desktop	35.82	0.00	0.30
Hyde	SDL-320	W_10_HY_025_DT	PEM	--	44.771552	-99.364407	Turtle	10160009	Desktop	35.87	0.00	0.06
Hyde	SDL-320	W_10_HY_026_DT	PEM	--	44.772239	-99.363214	Turtle	10160009	Desktop	35.93	93.29	0.52

Wetland Crossing Table												
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Hyde	SDL-320	W_10_HY_027_DT	PEM	--	44.773460	-99.360692	Turtle	10160009	Desktop	36.09	0.00	0.04
Hyde	SDL-320	W_10_HY_028_DT	PEM	--	44.775220	-99.360414	Turtle	10160009	Desktop	36.20	0.00	0.15
Hyde	SDL-320	W_10_HY_029_DT	PEM	--	44.775684	-99.359473	Turtle	10160009	Desktop	36.24	402.93	2.19
Hyde	SDL-320	W_10_HY_030_DT	PEM	--	44.777203	-99.357833	Turtle	10160009	Desktop	36.39	417.88	2.11
Hyde	SDL-320	W_10_HY_031_DT	PEM	--	44.778737	-99.354816	Turtle	10160009	Desktop	36.56	237.21	1.64
Hyde	SDL-320	W_10_HY_032_DT	PEM	--	44.780163	-99.353729	Turtle	10160009	Desktop	36.72	0.00	0.05
Hyde	SDL-320	W_10_HY_033_DT	PEM	--	44.784570	-99.352028	Turtle	10160009	Desktop	37.02	40.12	0.53
Hyde	SDL-320	W_10_HY_034_DT	PEM	--	44.785906	-99.352163	Turtle	10160009	Desktop	37.12	198.73	0.88
Hyde	SDL-320	W_10_HY_035_DT	PEM	--	44.789733	-99.347058	Turtle	10160009	Desktop	37.51	0.00	0.40
Hyde	SDL-320	W2022HY047	PEM	--	44.791686	-99.342452	Turtle	10160009	Survey	37.76	0.00	0.02
Hyde	SDL-320	W_9_HY_518_DT	PEM	--	44.791432	-99.332236	Turtle	10160009	Desktop	38.25	9.05	0.06
Hyde	SDL-320	W2011HY041	PEM	--	44.791472	-99.332047	Turtle	10160009	Survey	38.26	12.84	0.07
Hyde	SDL-320	W2011HY040	PEM	--	44.791444	-99.329035	Turtle	10160009	Survey	38.40	328.57	1.45
Hyde	SDL-320	W2011HY039	PEM	--	44.791493	-99.325606	Turtle	10160009	Survey	38.58	514.98	3.12
Kingsbury	SDM-104	W2002KI110	PEM	--	44.212372	-97.568440	Vermillion	10170102	Survey	120.08	0.00	0.10
Kingsbury	SDM-104	W2002KI109	PEM	--	44.213352	-97.569123	Vermillion	10170102	Survey	120.13	32.60	0.31
Kingsbury	SDM-104	W2005KI126	PEM	--	44.229940	-97.588304	Lower James	10160011	Survey	121.56	203.51	1.10
Kingsbury	SDM-104	W2005KI128	PEM	--	44.229583	-97.589108	Lower James	10160011	Survey	121.66	0.00	0.11
Kingsbury	SDM-104	W2005KI129	PEM	--	44.230681	-97.590191	Lower James	10160011	Survey	121.76	0.00	0.32
Kingsbury	SDM-104	W2005KI130	PEM	--	44.231340	-97.590701	Lower James	10160011	Survey	121.80	28.98	0.49
Kingsbury	SDM-104	W2014KI035	PEM	--	44.232058	-97.590433	Lower James	10160011	Survey	121.84	0.00	0.06
Kingsbury	SDM-104	W_9_KI_193_DT	PEM	--	44.233288	-97.590821	Lower James	10160011	Desktop	121.93	0.00	0.00
Kingsbury	SDM-104	W2014KI036	PEM	--	44.233750	-97.591603	Lower James	10160011	Survey	121.98	229.05	1.82
Kingsbury	SDM-104	W_9_KI_193_DT	PEM	--	44.234366	-97.591185	Lower James	10160011	Desktop	122.01	0.00	0.00
Kingsbury	SDM-104	W2014KI037	PEM	--	44.234979	-97.592227	Lower James	10160011	Survey	122.07	6.95	0.03
Kingsbury	SDM-104	W2005KI133	PEM	--	44.234678	-97.593467	Lower James	10160011	Survey	122.12	0.00	0.67
Kingsbury	SDM-104	W2005KI134	PEM	--	44.235811	-97.594484	Lower James	10160011	Survey	122.20	170.09	1.76
Kingsbury	SDM-104	W2022KI067	PEM	--	44.238115	-97.596767	Lower James	10160011	Survey	122.41	0.00	0.04
Kingsbury	SDM-104	W2022KI068	PEM	--	44.238484	-97.597307	Lower James	10160011	Survey	122.45	0.00	0.09

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Kingsbury	SDM-104	W2015KI172	PEM	--	44.246505	-97.604593	Lower James	10160011	Survey	123.12	122.13	0.80
Kingsbury	SDM-104	W2015KI173	PEM	--	44.248732	-97.606709	Lower James	10160011	Survey	123.31	0.00	0.21
Kingsbury	SDM-104	W2015KI174	PEM	--	44.250406	-97.606891	Lower James	10160011	Survey	123.40	0.00	0.07
Kingsbury	SDM-104	W2015KI174	PEM	--	44.251030	-97.607611	Lower James	10160011	Survey	123.46	21.04	0.11
Kingsbury	SDM-104	W_9_KI_777_DT	PEM	--	44.251517	-97.607396	Lower James	10160011	Desktop	123.51	0.00	0.37
Kingsbury	SDM-104	W_12_KI_019_DT	PEM	--	44.253003	-97.609324	Lower James	10160011	Desktop	123.62	0.00	0.00
Kingsbury	SDM-104	W_12_KI_019_DT	PEM	--	44.253473	-97.609632	Lower James	10160011	Desktop	123.68	0.00	0.11
Kingsbury	SDM-104	W_12_KI_018_DT	PEM	--	44.255348	-97.610184	Lower James	10160011	Desktop	123.81	207.68	0.65
Kingsbury	SDM-104	W_12_KI_017_DT	PEM	--	44.258630	-97.611735	Lower James	10160011	Desktop	124.03	146.55	0.33
Kingsbury	SDM-104	W_12_KI_016_DT	PEM	--	44.263802	-97.613896	Lower James	10160011	Desktop	124.44	17.41	0.27
Kingsbury	SDM-104	W_12_KI_016_DT	PEM	--	44.263859	-97.613300	Lower James	10160011	Desktop	124.44	28.48	0.31
Kingsbury	SDM-104	W_12_KI_015_DT	PEM	--	44.265788	-97.614890	Lower James	10160011	Desktop	124.61	0.00	0.00
Kingsbury	SDM-104	W_12_KI_015_DT	PEM	--	44.265917	-97.614775	Lower James	10160011	Desktop	124.63	51.89	0.60
Kingsbury	SDM-104	W_12_KI_015_DT	PEM	--	44.266337	-97.615160	Lower James	10160011	Desktop	124.64	53.94	0.37
Kingsbury	SDM-104	W_10_KI_015_DT	PEM	--	44.266492	-97.619711	Lower James	10160011	Desktop	124.88	0.00	0.12
Kingsbury	SDM-104	W_10_KI_014_DT	PEM	--	44.266922	-97.621651	Lower James	10160011	Desktop	124.98	303.23	0.97
Kingsbury	SDM-104	W_12_KI_011_DT	PEM	--	44.268278	-97.623497	Lower James	10160011	Desktop	125.13	189.74	1.02
Kingsbury	SDM-104	W_12_KI_010_DT	PEM	--	44.268824	-97.624996	Lower James	10160011	Desktop	125.21	0.00	0.24
Kingsbury	SDM-104	W_12_KI_009_DT	PEM	--	44.270740	-97.625940	Lower James	10160011	Desktop	125.34	0.00	0.11
Kingsbury	SDM-104	W_12_KI_008_DT	PEM	--	44.271526	-97.628723	Lower James	10160011	Desktop	125.49	105.67	0.69
Kingsbury	SDM-104	W_12_KI_008_DT	PEM	--	44.271535	-97.629199	Middle James	10160006	Desktop	125.51	0.00	0.03
Kingsbury	SDM-104	W_12_KI_007_DT	PEM	--	44.272416	-97.630862	Middle James	10160006	Desktop	125.61	306.07	1.82
Kingsbury	SDM-104	W_12_KI_006_DT	PEM	--	44.274104	-97.638627	Middle James	10160006	Desktop	126.02	0.00	0.03
Kingsbury	SDM-104	W_12_KI_005_DT	PEM	--	44.273950	-97.640542	Middle James	10160006	Desktop	126.10	51.49	0.22
Kingsbury	SDM-104	W_12_KI_004_DT	PEM	--	44.274021	-97.641662	Middle James	10160006	Desktop	126.16	114.30	0.24
Kingsbury	SDM-104	W_12_KI_003_DT	PEM	--	44.274212	-97.642650	Middle James	10160006	Desktop	126.21	108.25	0.66
Kingsbury	SDM-104	W_12_KI_002_DT	PEM	--	44.274448	-97.644366	Middle James	10160006	Desktop	126.30	125.01	0.37
Kingsbury	SDM-104	W2005KI136	PEM	--	44.274508	-97.646146	Middle James	10160006	Survey	126.39	0.00	0.08
Kingsbury	SDM-104	W_12_KI_001_DT	PEM	--	44.275219	-97.646093	Middle James	10160006	Desktop	126.39	0.00	0.06

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Kingsbury	SDM-104	W2014KI038	PEM	--	44.275295	-97.651142	Middle James	10160006	Survey	126.64	0.00	0.07
Kingsbury	SDM-104	W2014KI039	PEM	--	44.281281	-97.662554	Middle James	10160006	Survey	127.35	169.71	0.64
Kingsbury	SDM-104	W2014KI040	PEM	--	44.282041	-97.663599	Middle James	10160006	Survey	127.42	101.41	0.54
Kingsbury	SDM-104	W2014KI041	PEM	--	44.284277	-97.664452	Middle James	10160006	Survey	127.58	0.00	0.24
Kingsbury	SDM-104	W2014KI042	PEM	--	44.286047	-97.665840	Middle James	10160006	Survey	127.72	24.74	0.20
Kingsbury	SDM-104	W_9_KI_098_DT_USACE	PEM	--	44.287287	-97.666436	Middle James	10160006	Desktop	127.81	45.01	0.26
Kingsbury	SDM-104	W2014KI043	PEM	--	44.292676	-97.672541	Middle James	10160006	Survey	128.30	27.89	0.13
Kingsbury	SDM-104	W2010KI070	PEM	--	44.302841	-97.693015	Middle James	10160006	Survey	129.57	9.23	0.07
Kingsbury	SDM-104	W2010KI071	PEM	--	44.304815	-97.699049	Middle James	10160006	Survey	129.91	0.00	0.04
Kingsbury	SDM-104	W2010KI072	PEM	--	44.304638	-97.699148	Middle James	10160006	Survey	129.91	0.00	0.05
Kingsbury	SDM-104	W2005KI143	PEM	--	44.306439	-97.704693	Middle James	10160006	Survey	130.25	0.00	0.27
Kingsbury	SDM-104	W2014KI044	PEM	--	44.310764	-97.707016	Middle James	10160006	Survey	130.56	9.04	0.04
Kingsbury	SDM-104	W2015KI022	PEM	--	44.324686	-97.711334	Middle James	10160006	Survey	131.59	0.00	1.14
Kingsbury	SDM-104	W2015KI023	PEM	--	44.325579	-97.712208	Middle James	10160006	Survey	131.60	33.22	0.27
Kingsbury	SDM-104	W2015KI023_PFO	PFO	--	44.325954	-97.712326	Middle James	10160006	Survey	131.64	0.00	0.20
Kingsbury	SDM-104	W2015KI023	PEM	--	44.326298	-97.712268	Middle James	10160006	Survey	131.68	0.00	0.29
Kingsbury	SDM-104	W2015KI167	PEM	--	44.332518	-97.712741	Middle James	10160006	Survey	132.13	24.02	0.20
Kingsbury	SDM-104	W2022KI066	PEM	--	44.332717	-97.713533	Middle James	10160006	Survey	132.18	0.00	0.01
Kingsbury	SDM-104	W2015KI026	PEM	--	44.365691	-97.732841	Middle James	10160006	Survey	134.81	0.00	0.06
Kingsbury	SDM-104	W2015KI027	PEM	--	44.368357	-97.733823	Middle James	10160006	Survey	135.01	31.86	0.20
Kingsbury	SDM-104	W2015KI028	PEM	--	44.368637	-97.733841	Middle James	10160006	Survey	135.03	22.15	0.16
Kingsbury	SDM-104	W2014KI045	PEM	--	44.369035	-97.733680	Middle James	10160006	Survey	135.05	138.49	0.67
Kingsbury	SDM-104	W2014KI046	PEM	--	44.369548	-97.732737	Middle James	10160006	Survey	135.10	0.00	0.27
Kingsbury	SDM-104	W2009KI019	PEM	--	44.393843	-97.747318	Middle James	10160006	Survey	136.97	9.28	0.12
Kingsbury	SDM-104	W2009KI018	PEM	--	44.410763	-97.750942	Middle James	10160006	Survey	138.17	0.00	0.02
Kingsbury	SDM-104	W2015KI151	PEM	--	44.421279	-97.751463	Middle James	10160006	Survey	138.89	0.00	0.07
Kingsbury	SDM-104	W2009KI017	PEM	--	44.422851	-97.752058	Middle James	10160006	Survey	139.03	0.00	0.19
Kingsbury	SDM-104	W2009KI016	PEM	--	44.423631	-97.753274	Middle James	10160006	Survey	139.12	84.51	0.34
Kingsbury	SDM-104	W2009KI014	PEM	--	44.424296	-97.753890	Middle James	10160006	Survey	139.16	164.87	0.69

Wetland Crossing Table												
County	Route ID	Feature ID	Feature Type	Feature Name	Latitude	Longitude	HUC 8 Watershed Name	HUC 8 Watershed No.	Survey or Desktop	Approx. MP	ESC Crossing Length (ft)	ESC Total Acres
Kingsbury	SDM-104	W2009KI013	PEM	--	44.425103	-97.755751	Middle James	10160006	Survey	139.27	60.42	0.74
Kingsbury	SDM-104	W2009KI012	PEM	--	44.427182	-97.759523	Middle James	10160006	Survey	139.52	0.00	0.28
Kingsbury	SDM-104	W2009KI011	PEM	--	44.430579	-97.760704	Middle James	10160006	Survey	139.75	0.00	0.08
Kingsbury	SDM-104	W2009KI009	PEM	--	44.431381	-97.762035	Middle James	10160006	Survey	139.83	0.00	0.27
Kingsbury	SDM-104	W2009KI010	PEM	--	44.432949	-97.762438	Middle James	10160006	Survey	139.93	118.16	0.39
Kingsbury	SDM-104	W_2_KI_417_DT	PEM	--	44.433833	-97.762847	Middle James	10160006	Desktop	139.99	0.00	0.00
Kingsbury	SDM-104	W2009KI008	PEM	--	44.433603	-97.763178	Middle James	10160006	Survey	140.00	14.84	0.06
Kingsbury	SDM-104	W_9_KI_099_DT_USACE	PEM	--	44.447377	-97.775938	Middle James	10160006	Desktop	141.22	56.01	0.39
Kingsbury	SDM-104	W_9_KI_100_DT_USACE	PEM	--	44.458946	-97.777325	Middle James	10160006	Desktop	142.03	86.69	0.83
Kingsbury	SDM-104	W_9_KI_101_DT_USACE	PEM	--	44.467025	-97.782538	Middle James	10160006	Desktop	142.72	46.05	0.33
Kingsbury	SDM-104	W2009KI007	PEM	--	44.470354	-97.783316	Middle James	10160006	Survey	142.97	53.07	0.43
Kingsbury	SDM-104	W2009KI006	PEM	--	44.473541	-97.789324	Middle James	10160006	Survey	143.32	2.89	0.17
Kingsbury	SDM-104	W2009KI005	PEM	--	44.473690	-97.789191	Middle James	10160006	Survey	143.34	91.68	0.40
Kingsbury	SDM-104	W2014KI047	PEM	--	44.475341	-97.793186	Middle James	10160006	Survey	143.57	0.00	0.04
Kingsbury	SDM-104	W2014KI048	PEM	--	44.476159	-97.793202	Middle James	10160006	Survey	143.59	0.00	0.05
Kingsbury	SDM-104	W2014KI049	PEM	--	44.476107	-97.793390	Middle James	10160006	Survey	143.59	10.39	0.06
Kingsbury	SDM-104	W2014KI050	PEM	--	44.476098	-97.794360	Middle James	10160006	Survey	143.65	0.00	0.31
Kingsbury	SDM-104	W2014KI051	PEM	--	44.476721	-97.795622	Middle James	10160006	Survey	143.71	0.00	0.08
Kingsbury	SDM-104	W2014KI052	PEM	--	44.479090	-97.799138	Middle James	10160006	Survey	143.95	87.25	0.64
Kingsbury	SDM-104	W2015KI150	PEM	--	44.481585	-97.804560	Middle James	10160006	Survey	144.27	0.00	0.05
Kingsbury	SDM-104	W2015KI149	PEM	--	44.481922	-97.804684	Middle James	10160006	Survey	144.29	0.00	0.05
Kingsbury	SDM-104	W2015KI148	PEM	--	44.481922	-97.805153	Middle James	10160006	Survey	144.31	0.00	0.07
Kingsbury	SDM-104	W2009KI004	PEM	--	44.482596	-97.805296	Middle James	10160006	Survey	144.34	86.15	0.42
Kingsbury	SDM-104	W2009KI003	PEM	--	44.500144	-97.832487	Middle James	10160006	Survey	146.22	187.37	1.49
Kingsbury	SDM-104	W_9_KI_102_DT_USACE	PEM	--	44.525767	-97.849722	Middle James	10160006	Desktop	148.20	42.66	0.20
Kingsbury	SDT-411	W_9_KI_179_DT	PEM	--	44.361772	-97.340979	South Big Sioux Coteau	10170103	Desktop	0.12	0.00	0.24
Kingsbury	SDT-411	W_9_KI_178_DT	PEM	--	44.359914	-97.344213	South Big Sioux Coteau	10170103	Desktop	0.34	0.00	0.18
Kingsbury	SDT-411	W_9_KI_181_DT	PEM	--	44.349586	-97.351849	South Big Sioux Coteau	10170103	Desktop	1.26	408.14	2.66
Kingsbury	SDT-411	W_9_KI_182_DT	PEM	--	44.346657	-97.351673	South Big Sioux Coteau	10170103	Desktop	1.46	75.79	0.37

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Kingsbury	SDT-411	W_9_KI_183_DT	PEM	--	44.345805	-97.352959	South Big Sioux Coteau	10170103	Desktop	1.57	0.00	0.17
Kingsbury	SDT-411	W_9_KI_184_DT	PEM	--	44.341723	-97.359964	South Big Sioux Coteau	10170103	Desktop	2.03	0.00	0.98
Kingsbury	SDT-411	W_9_KI_185_DT	PEM	--	44.341552	-97.363197	South Big Sioux Coteau	10170103	Desktop	2.19	0.00	0.08
Kingsbury	SDT-411	W_9_KI_186_DT	PEM	--	44.340850	-97.363558	South Big Sioux Coteau	10170103	Desktop	2.20	0.00	0.11
Kingsbury	SDT-411	W_9_KI_187_DT	PEM	--	44.340925	-97.364385	South Big Sioux Coteau	10170103	Desktop	2.23	0.00	0.23
Kingsbury	SDT-411	W_9_KI_188_DT	PEM	--	44.340935	-97.365727	South Big Sioux Coteau	10170103	Desktop	2.30	0.00	0.18
Kingsbury	SDT-411	W_9_KI_185_DT	PEM	--	44.341559	-97.365721	South Big Sioux Coteau	10170103	Desktop	2.31	0.00	0.19
Kingsbury	SDT-411	W_9_KI_189_DT	PEM	--	44.341016	-97.366934	South Big Sioux Coteau	10170103	Desktop	2.36	0.00	0.19
Kingsbury	SDT-411	W_9_KI_170_DT	PEM	--	44.341970	-97.373114	South Big Sioux Coteau	10170103	Desktop	2.67	352.97	2.40
Kingsbury	SDT-411	W_9_KI_190_DT	PEM	--	44.342695	-97.378645	South Big Sioux Coteau	10170103	Desktop	2.95	0.00	0.03
Kingsbury	SDT-411	W_9_KI_169_DT	PEM	--	44.343505	-97.379731	South Big Sioux Coteau	10170103	Desktop	3.03	33.97	0.34
Kingsbury	SDT-411	W_9_KI_168_DT	PEM	--	44.344464	-97.383863	South Big Sioux Coteau	10170103	Desktop	3.20	65.12	0.70
Kingsbury	SDT-411	W_9_KI_167_DT	PEM	--	44.344588	-97.388072	South Big Sioux Coteau	10170103	Desktop	3.45	0.00	0.13
Kingsbury	SDT-411	W_9_KI_167_DT	PEM	--	44.344813	-97.389552	South Big Sioux Coteau	10170103	Desktop	3.54	0.00	1.10
Kingsbury	SDT-411	W_9_KI_166_DT	PEM	--	44.344762	-97.394615	South Big Sioux Coteau	10170103	Desktop	3.82	0.00	0.24
Kingsbury	SDT-411	W_9_KI_165_DT	PEM	--	44.345214	-97.405845	South Big Sioux Coteau	10170103	Desktop	4.33	140.44	0.91
Kingsbury	SDT-411	W_9_KI_165_DT	PEM	--	44.345259	-97.406271	South Big Sioux Coteau	10170103	Desktop	4.35	40.15	0.38
Kingsbury	SDT-411	W_9_KI_164_DT	PEM	--	44.354380	-97.426665	South Big Sioux Coteau	10170103	Desktop	5.68	770.95	6.52
Kingsbury	SDT-411	W_10_KI_011_DT	PEM	--	44.353545	-97.439351	South Big Sioux Coteau	10170103	Desktop	6.31	33.13	0.19
Kingsbury	SDT-411	W_10_KI_010_DT	PEM	--	44.353459	-97.450397	South Big Sioux Coteau	10170103	Desktop	6.86	290.35	1.98
Kingsbury	SDT-411	W_10_KI_009_DT	PEM	--	44.352148	-97.455746	South Big Sioux Coteau	10170103	Desktop	7.13	38.33	0.44
Kingsbury	SDT-411	W_10_KI_008_DT	PEM	--	44.351070	-97.458270	South Big Sioux Coteau	10170103	Desktop	7.30	295.32	2.25
Kingsbury	SDT-411	W_10_KI_007_DT	PEM	--	44.350715	-97.464383	South Big Sioux Coteau	10170103	Desktop	7.60	294.31	2.06
Kingsbury	SDT-411	W_10_KI_006_DT	PEM	--	44.350517	-97.470558	South Big Sioux Coteau	10170103	Desktop	7.90	291.80	1.73
Kingsbury	SDT-411	W_10_KI_005_DT	PEM	--	44.350354	-97.473784	South Big Sioux Coteau	10170103	Desktop	8.07	172.46	1.34
Kingsbury	SDT-411	W_10_KI_004_DT	PEM	--	44.350741	-97.480345	South Big Sioux Coteau	10170103	Desktop	8.40	0.00	0.15
Kingsbury	SDT-411	W_10_KI_003_DT	PEM	--	44.350384	-97.484308	South Big Sioux Coteau	10170103	Desktop	8.59	865.12	5.90
Kingsbury	SDT-411	W_10_KI_002_DT	PEM	--	44.350293	-97.498278	South Big Sioux Coteau	10170103	Desktop	9.28	460.42	2.93
Kingsbury	SDT-411	W_10_KI_012_DT	PEM	--	44.350296	-97.504332	South Big Sioux Coteau	10170103	Desktop	9.61	800.58	4.95

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Kingsbury	SDT-411	W_9_KI_148_DT	PEM	--	44.349857	-97.512489	South Big Sioux Coteau	10170103	Desktop	9.98	127.65	0.95
Kingsbury	SDT-411	W_9_KI_147_DT	PEM	--	44.348833	-97.516726	South Big Sioux Coteau	10170103	Desktop	10.22	188.50	1.18
Kingsbury	SDT-411	W_9_KI_147_DT	PEM	--	44.348600	-97.517445	South Big Sioux Coteau	10170103	Desktop	10.26	130.99	1.11
Kingsbury	SDT-411	W_9_KI_146_DT	PEM	--	44.342578	-97.529058	South Big Sioux Coteau	10170103	Desktop	11.02	0.00	1.37
Kingsbury	SDT-411	W_9_KI_145_DT	PEM	--	44.341717	-97.537359	South Big Sioux Coteau	10170103	Desktop	11.41	0.00	0.35
Kingsbury	SDT-411	W_9_KI_144_DT	PEM	--	44.342007	-97.540725	South Big Sioux Coteau	10170103	Desktop	11.58	229.16	0.64
Kingsbury	SDT-411	W_9_KI_142_DT	PEM	--	44.339171	-97.561573	Lower James	10160011	Desktop	12.70	0.00	0.08
Kingsbury	SDT-411	W_9_KI_141_DT	PEM	--	44.338832	-97.563292	Lower James	10160011	Desktop	12.79	0.00	0.50
Kingsbury	SDT-411	W_9_KI_140_DT	PEM	--	44.338695	-97.566323	Lower James	10160011	Desktop	12.93	127.73	0.85
Kingsbury	SDT-411	W_9_KI_139_DT	PEM	--	44.338516	-97.570200	Lower James	10160011	Desktop	13.13	33.81	0.24
Kingsbury	SDT-411	W_9_KI_138_DT	PEM	--	44.338158	-97.577636	Lower James	10160011	Desktop	13.50	0.00	0.20
Kingsbury	SDT-411	W_9_KI_137_DT	PEM	--	44.339642	-97.581975	Lower James	10160011	Desktop	13.76	16.10	0.14
Kingsbury	SDT-411	W_9_KI_135_DT	PEM	--	44.342063	-97.586768	Lower James	10160011	Desktop	14.04	0.00	0.06
Kingsbury	SDT-411	W_9_KI_133_DT	PEM	--	44.341525	-97.587233	Lower James	10160011	Desktop	14.06	0.00	0.20
Kingsbury	SDT-411	W_9_KI_134_DT	PEM	--	44.341971	-97.589118	Lower James	10160011	Desktop	14.15	0.00	0.08
Kingsbury	SDT-411	W_9_KI_133_DT	PEM	--	44.341204	-97.590130	Lower James	10160011	Desktop	14.21	0.00	0.08
Kingsbury	SDT-411	W_9_KI_131_DT	PEM	--	44.339816	-97.601586	Lower James	10160011	Desktop	14.79	0.00	0.02
Kingsbury	SDT-411	W_9_KI_129_DT	PEM	--	44.340383	-97.601914	Lower James	10160011	Desktop	14.80	0.00	0.11
Kingsbury	SDT-411	W_9_KI_128_DT	PEM	--	44.338952	-97.609714	Lower James	10160011	Desktop	15.24	0.00	0.19
Kingsbury	SDT-411	W_9_KI_126_DT	PEM	--	44.339649	-97.610099	Lower James	10160011	Desktop	15.25	0.00	0.00
Kingsbury	SDT-411	W_9_KI_126_DT	PEM	--	44.339499	-97.611654	Lower James	10160011	Desktop	15.32	75.52	0.32
Kingsbury	SDT-411	W_9_KI_125_DT	PEM	--	44.339087	-97.613838	Lower James	10160011	Desktop	15.43	0.00	0.45
Kingsbury	SDT-411	W_9_KI_124_DT	PEM	--	44.338847	-97.624890	Middle James	10160006	Desktop	15.99	0.00	0.08
Kingsbury	SDT-411	W_9_KI_123_DT	PEM	--	44.339491	-97.626165	Middle James	10160006	Desktop	16.04	174.01	0.49
Kingsbury	SDT-411	W_9_KI_122_DT	PEM	--	44.338885	-97.627832	Middle James	10160006	Desktop	16.12	0.00	0.09
Kingsbury	SDT-411	W_9_KI_121_DT	PEM	--	44.339243	-97.632325	Middle James	10160006	Desktop	16.35	15.30	0.11
Kingsbury	SDT-411	W_9_KI_120_DT	PEM	--	44.339248	-97.632556	Middle James	10160006	Desktop	16.36	18.47	0.10
Kingsbury	SDT-411	W_9_KI_119_DT	PEM	--	44.339357	-97.635030	Middle James	10160006	Desktop	16.48	482.72	3.29
Kingsbury	SDT-411	W_9_KI_118_DT	PEM	--	44.339627	-97.637267	Middle James	10160006	Desktop	16.59	0.00	0.42

Wetland Crossing Table												
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Kingsbury	SDT-411	W_9_KI_117_DT	PEM	--	44.339416	-97.641056	Middle James	10160006	Desktop	16.77	352.12	2.03
Kingsbury	SDT-411	W_9_KI_117_DT	PEM	--	44.339683	-97.642778	Middle James	10160006	Desktop	16.86	0.00	0.04
Kingsbury	SDT-411	W_9_KI_856_DT	PEM	--	44.339150	-97.642825	Middle James	10160006	Desktop	16.87	100.76	0.43
Kingsbury	SDT-411	W_9_KI_116_DT	PEM	--	44.339114	-97.644454	Middle James	10160006	Desktop	16.96	73.74	0.50
Kingsbury	SDT-411	W_9_KI_115_DT	PEM	--	44.339605	-97.645816	Middle James	10160006	Desktop	17.01	0.00	0.21
Kingsbury	SDT-411	W_9_KI_114_DT	PEM	--	44.339318	-97.647971	Middle James	10160006	Desktop	17.12	604.95	4.24
Kingsbury	SDT-411	W_9_KI_113_DT	PEM	--	44.339289	-97.651359	Middle James	10160006	Desktop	17.29	128.58	0.53
Kingsbury	SDT-411	W_9_KI_112_DT	PEM	--	44.339127	-97.657672	Middle James	10160006	Desktop	17.60	0.00	0.17
Kingsbury	SDT-411	W_9_KI_111_DT	PEM	--	44.339041	-97.661406	Middle James	10160006	Desktop	17.78	0.00	0.09
Kingsbury	SDT-411	W_9_KI_110_DT	PEM	--	44.339363	-97.664066	Middle James	10160006	Desktop	17.94	656.89	2.94
Kingsbury	SDT-411	W_9_KI_108_DT	PEM	--	44.339447	-97.666148	Middle James	10160006	Desktop	18.02	0.00	0.09
Kingsbury	SDT-411	W_9_KI_107_DT	PEM	--	44.338944	-97.671839	Middle James	10160006	Desktop	18.31	0.00	0.17
Kingsbury	SDT-411	W_9_KI_106_DT	PEM	--	44.339397	-97.672369	Middle James	10160006	Desktop	18.33	43.57	0.15
Kingsbury	SDT-411	W_9_KI_105_DT	PEM	--	44.339225	-97.680442	Middle James	10160006	Desktop	18.73	0.00	0.06
Kingsbury	SDT-411	W_9_KI_104_DT	PEM	--	44.339285	-97.692675	Middle James	10160006	Desktop	19.34	0.00	0.06
Kingsbury	SDT-411	W_9_KI_103_DT	PEM	--	44.333962	-97.709889	Middle James	10160006	Desktop	20.34	0.00	0.33
Kingsbury	SDT-411	W2015KI167	PEM	--	44.332518	-97.712741	Middle James	10160006	Survey	20.51	25.21	0.20
Kingsbury	SDT-411	W2022KI065	PEM	--	44.332823	-97.713212	Middle James	10160006	Survey	20.54	0.00	0.07
Lake	SDL-513	W_9_LA_53_DT	PEM	--	44.194624	-96.897766	Middle Big Sioux Coteau	10170202	Desktop	14.88	82.39	0.45
Lake	SDL-513	W_9_LA_53_DT	PEM	--	44.194443	-96.897836	Middle Big Sioux Coteau	10170202	Desktop	14.89	52.65	0.31
Lake	SDL-513	W_9_LA_52_DT	PEM	--	44.190156	-96.898988	Middle Big Sioux Coteau	10170202	Desktop	15.19	67.89	0.59
Lake	SDL-513	W_9_LA_52_DT	PEM	--	44.189883	-96.898963	Middle Big Sioux Coteau	10170202	Desktop	15.21	118.56	0.64
Lake	SDL-513	W_10_LA_017_DT	PEM	--	44.178109	-96.909064	Middle Big Sioux Coteau	10170202	Desktop	16.35	14.74	0.11
Lake	SDL-513	W_9_LA_51_DT	PEM	--	44.178149	-96.909460	Middle Big Sioux Coteau	10170202	Desktop	16.37	104.86	0.65
Lake	SDL-513	W_9_LA_54_DT	PFO	--	44.174964	-96.919592	Middle Big Sioux Coteau	10170202	Desktop	16.92	0.00	0.45
Lake	SDL-513	W_9_LA_50_DT	PEM	--	44.174626	-96.919605	Middle Big Sioux Coteau	10170202	Desktop	16.93	0.00	0.20
Lake	SDL-513	W_9_LA_49_DT	PFO	--	44.174202	-96.918950	Middle Big Sioux Coteau	10170202	Desktop	16.94	0.00	0.04
Lake	SDL-513	W_9_LA_48_DT	PEM	--	44.169183	-96.921828	Middle Big Sioux Coteau	10170202	Desktop	17.33	165.95	1.27
Lake	SDL-513	W_9_LA_47_DT	PEM	--	44.165611	-96.922064	Middle Big Sioux Coteau	10170202	Desktop	17.59	51.16	0.48

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Lake	SDL-513	W_9_LA_45_DT	PEM	--	44.161569	-96.922023	Middle Big Sioux Coteau	10170202	Desktop	17.86	523.45	3.30
Lake	SDL-513	W_9_LA_46_DT	PEM	--	44.160282	-96.922544	Middle Big Sioux Coteau	10170202	Desktop	17.94	0.00	0.07
Lake	SDL-513	W_9_LA_43_DT	PEM	--	44.153938	-96.919090	Middle Big Sioux Coteau	10170202	Desktop	18.40	40.53	0.31
Lake	SDL-513	W_9_LA_44_DT	PEM	--	44.153966	-96.918591	Middle Big Sioux Coteau	10170202	Desktop	18.42	0.00	0.07
Lake	SDL-513	W_10_LA_003_DT	PEM	--	44.150090	-96.914153	Middle Big Sioux Coteau	10170202	Desktop	18.78	235.63	1.45
Lake	SDL-513	W_10_LA_004_DT	PEM	--	44.147792	-96.908436	Middle Big Sioux Coteau	10170202	Desktop	19.12	0.00	0.30
Lake	SDL-513	W_10_LA_004_DT	PEM	--	44.147699	-96.907367	Middle Big Sioux Coteau	10170202	Desktop	19.16	211.06	1.58
Lake	SDL-513	W_10_LA_004_DT	PEM	--	44.147335	-96.907144	Middle Big Sioux Coteau	10170202	Desktop	19.19	65.63	0.58
Lake	SDL-513	W_10_LA_006_DT_PSS	PSS	--	44.139144	-96.901348	Middle Big Sioux Coteau	10170202	Desktop	19.88	20.18	0.05
Lake	SDL-513	W_10_LA_006_DT_PFO	PFO	--	44.138949	-96.901891	Middle Big Sioux Coteau	10170202	Desktop	19.90	0.00	0.29
Lake	SDL-513	W_10_LA_006_DT_PEM	PEM	--	44.138971	-96.901459	Middle Big Sioux Coteau	10170202	Desktop	19.90	339.88	1.76
Lake	SDL-513	W_10_LA_006_DT_PSS	PSS	--	44.138842	-96.900970	Middle Big Sioux Coteau	10170202	Desktop	19.90	0.00	0.05
Lake	SDL-513	W_10_LA_006_DT_PFO	PFO	--	44.138533	-96.901446	Middle Big Sioux Coteau	10170202	Desktop	19.92	24.02	0.15
Lake	SDL-513	W_10_LA_16_DT	PEM	--	44.137967	-96.901999	Middle Big Sioux Coteau	10170202	Desktop	19.96	0.00	0.19
Lake	SDL-513	W_9_LA_35_DT	PEM	--	44.135465	-96.901043	Middle Big Sioux Coteau	10170202	Desktop	20.14	332.85	2.22
Lake	SDL-513	W_9_LA_35_DT	PEM	--	44.132894	-96.900705	Middle Big Sioux Coteau	10170202	Desktop	20.31	64.61	0.88
Lake	SDL-513	W_9_LA_35_DT	PEM	--	44.130666	-96.899253	Middle Big Sioux Coteau	10170202	Desktop	20.49	29.79	0.42
Lake	SDL-513	W_9_LA_34_DT	PEM	--	44.120578	-96.898358	Middle Big Sioux Coteau	10170202	Desktop	21.19	110.01	0.43
Lake	SDL-513	W_9_LA_33_DT	PEM	--	44.109234	-96.898796	Middle Big Sioux Coteau	10170202	Desktop	21.96	0.00	0.16
Lake	SDL-513	W_9_LA_32_DT	PEM	--	44.107177	-96.899366	Middle Big Sioux Coteau	10170202	Desktop	22.13	116.06	0.73
Lake	SDL-513	W_9_LA_31_DT	PEM	--	44.102524	-96.899310	Middle Big Sioux Coteau	10170202	Desktop	22.43	11.77	0.15
Lake	SDL-513	W_9_LA_31_DT	PEM	--	44.102401	-96.899127	Middle Big Sioux Coteau	10170202	Desktop	22.44	134.45	0.63
Lake	SDL-513	W_9_LA_30_DT	PEM	--	44.097704	-96.899275	Middle Big Sioux Coteau	10170202	Desktop	22.77	144.72	0.86
Lake	SDL-513	W_9_LA_29_DT	PEM	--	44.088709	-96.899321	Middle Big Sioux Coteau	10170202	Desktop	23.39	64.28	0.55
Lake	SDL-513	W_9_LA_29_DT	PEM	--	44.088462	-96.898994	Middle Big Sioux Coteau	10170202	Desktop	23.41	85.57	0.70
Lake	SDL-513	W_9_LA_028_DT	PEM	--	44.085472	-96.898621	Middle Big Sioux Coteau	10170202	Desktop	23.58	0.00	0.70
Lake	SDL-513	W_9_LA_027_DT	PEM	--	44.078403	-96.895728	Middle Big Sioux Coteau	10170202	Desktop	24.14	0.00	0.16
Lake	SDL-513	W_10_LA_002_DT	PEM	--	44.072368	-96.897950	Middle Big Sioux Coteau	10170202	Desktop	24.60	28.23	0.09
Lake	SDL-513	W_9_LA_021_DT	PEM	--	44.067260	-96.898456	Middle Big Sioux Coteau	10170202	Desktop	24.94	0.00	0.72

Wetland Crossing Table												
County	Route ID	Feature ID	Feature Type	Feature Name	Latitude	Longitude	HUC 8 Watershed Name	HUC 8 Watershed No.	Survey or Desktop	Approx. MP	ESC Crossing Length (ft)	ESC Total Acres
Lake	SDL-513	W_9_LA_020_DT	PEM	--	44.064012	-96.898052	Middle Big Sioux Coteau	10170202	Desktop	25.18	172.57	1.53
Lake	SDL-513	W_9_LA_019_DT	PEM	--	44.059950	-96.898122	Middle Big Sioux Coteau	10170202	Desktop	25.46	170.49	1.14
Lake	SDL-513	W_9_LA_017_DT	PEM	--	44.025044	-96.918723	Lower Big Sioux	10170203	Desktop	28.26	0.00	0.25
Lake	SDL-513	W_9_LA_015_DT	PEM	--	44.019190	-96.922754	Lower Big Sioux	10170203	Desktop	28.75	102.71	0.61
Lake	SDL-513	W_9_LA_014_DT	PEM	--	44.013636	-96.932612	Lower Big Sioux	10170203	Desktop	29.37	70.49	0.53
Lake	SDL-513	W_9_LA_014_DT	PEM	--	44.013433	-96.933237	Lower Big Sioux	10170203	Desktop	29.41	310.10	2.10
Lake	SDL-513	W_9_LA_889_DT	PEM	--	44.008563	-96.934300	Lower Big Sioux	10170203	Desktop	29.69	0.00	0.24
Lake	SDL-513	W_9_LA_890_DT	PEM	--	44.008209	-96.933992	Lower Big Sioux	10170203	Desktop	29.72	0.00	0.02
Lake	SDL-513	W_9_LA_013_DT	PEM	--	44.008139	-96.939920	Lower Big Sioux	10170203	Desktop	29.91	0.00	0.04
Lake	SDL-513	W_9_LA_012_DT	PEM	--	44.007692	-96.939396	Lower Big Sioux	10170203	Desktop	29.93	156.64	1.09
Lake	SDL-513	W_9_LA_011_DT	PEM	--	44.004233	-96.939101	Lower Big Sioux	10170203	Desktop	30.09	0.00	2.24
Lake	SDL-513	W_9_LA_011_DT	PEM	--	44.002533	-96.938925	Lower Big Sioux	10170203	Desktop	30.29	0.00	0.00
Lake	SDL-513	W_9_LA_010_DT	PEM	--	44.000544	-96.939974	Lower Big Sioux	10170203	Desktop	30.42	0.00	0.18
Lake	SDL-513	W_9_LA_009_DT	PEM	--	43.997173	-96.939971	Lower Big Sioux	10170203	Desktop	30.65	0.00	1.08
Lake	SDL-513	W_9_LA_009_DT	PEM	--	43.994178	-96.940199	Lower Big Sioux	10170203	Desktop	30.87	124.50	1.01
Lake	SDL-513	W_9_LA_008_DT	PEM	--	43.992007	-96.941633	Lower Big Sioux	10170203	Desktop	31.06	337.43	1.65
Lake	SDL-513	W_9_LA_007_DT	PEM	--	43.988548	-96.946102	Lower Big Sioux	10170203	Desktop	31.37	184.56	0.95
Lake	SDL-513	W_9_LA_006_DT	PEM	--	43.987211	-96.947564	Lower Big Sioux	10170203	Desktop	31.49	80.20	0.57
Lake	SDL-513	W_9_LA_006_DT	PEM	--	43.985600	-96.948836	Lower Big Sioux	10170203	Desktop	31.60	0.00	0.06
Lake	SDL-513	W_9_LA_005_DT	PEM	--	43.986012	-96.950516	Lower Big Sioux	10170203	Desktop	31.66	0.00	0.04
Lake	SDL-513	W_9_LA_853_DT	PEM	--	43.984041	-96.950233	Lower Big Sioux	10170203	Desktop	31.78	243.36	1.27
Lake	SDL-513	W_9_LA_852_DT	PEM	--	43.981062	-96.951098	Lower Big Sioux	10170203	Desktop	32.00	72.65	0.61
Lake	SDL-513	W_9_LA_002_DT	PEM	--	43.976700	-96.952238	Lower Big Sioux	10170203	Desktop	32.31	129.39	0.91
Lake	SDL-513	W2006LA086	PEM	--	43.972751	-96.955802	Lower Big Sioux	10170203	Survey	32.66	0.00	0.11
Lake	SDM-104	W_9_LA_192_DT_USACE	PEM	--	43.871754	-97.148068	Lower Big Sioux	10170203	Desktop	85.98	0.00	0.35
Lake	SDM-104	W2010LA051	PEM	--	43.879142	-97.154358	Lower Big Sioux	10170203	Survey	86.72	4.77	0.02
Lake	SDM-104	W2002LA060	PEM	--	43.882288	-97.163233	Lower Big Sioux	10170203	Survey	87.21	0.00	0.00
Lake	SDM-104	W2002LA060	PEM	--	43.882415	-97.164394	Lower Big Sioux	10170203	Survey	87.25	0.00	0.54
Lake	SDM-104	W2002LA060	PEM	--	43.882826	-97.165201	Lower Big Sioux	10170203	Survey	87.31	0.00	0.00

Wetland Crossing Table												
County	Route ID	Feature ID	Feature Type	Feature Name	Latitude	Longitude	HUC 8 Watershed Name	HUC 8 Watershed No.	Survey or Desktop	Approx. MP	ESC Crossing Length (ft)	ESC Total Acres
Lake	SDM-104	W2002LA059	PEM	--	43.892289	-97.184126	Vermillion	10170102	Survey	88.50	79.93	0.54
Lake	SDM-104	W2002LA058	PEM	--	43.895331	-97.188940	Vermillion	10170102	Survey	88.81	46.00	0.24
Lake	SDM-104	W2010LA052	PEM	--	43.895256	-97.189167	Vermillion	10170102	Survey	88.83	18.64	0.06
Lake	SDM-104	W2002LA056	PEM	--	43.906015	-97.202975	Vermillion	10170102	Survey	89.85	37.92	0.29
Lake	SDM-104	W2010LA054	PEM	--	43.920729	-97.221614	Vermillion	10170102	Survey	91.31	0.00	4.09
Lake	SDM-104	W2010LA053	PEM	--	43.927280	-97.230416	Vermillion	10170102	Survey	91.90	27.55	1.03
Lake	SDM-104	W_9_LA_007_DT_USACE	PEM	--	43.931240	-97.234004	Vermillion	10170102	Desktop	92.17	0.00	0.25
Lake	SDM-104	W2010LA058	PEM	--	43.946368	-97.251884	Vermillion	10170102	Survey	93.55	0.00	0.16
Lake	SDM-104	W2010LA057	PEM	--	43.947130	-97.253972	Vermillion	10170102	Survey	93.65	0.00	0.12
Lake	SDM-104	W2010LA056	PEM	--	43.948536	-97.255081	Vermillion	10170102	Survey	93.77	21.60	0.11
Lake	SDM-104	W2010LA056	PEM	--	43.948384	-97.255530	Vermillion	10170102	Survey	93.77	0.00	0.00
Lake	SDM-104	W2010LA055	PEM	--	43.948964	-97.255732	Vermillion	10170102	Survey	93.80	28.75	0.17
Lake	SDM-104	W_9_LA_255_DT_USACE	PEM	--	43.953743	-97.261169	Vermillion	10170102	Desktop	94.23	28.54	0.18
Lake	SDM-104	W2013LA001	PEM	--	43.956813	-97.264649	Vermillion	10170102	Survey	94.48	10.89	0.11
Lake	SDM-104	W2013LA001	PEM	--	43.956397	-97.264617	Vermillion	10170102	Survey	94.49	43.62	0.24
Lake	SDM-104	W2010LA063	PEM	--	43.962915	-97.271232	Vermillion	10170102	Survey	95.06	0.00	0.04
Lake	SDM-104	W2010LA062	PEM	--	43.970013	-97.280671	Vermillion	10170102	Survey	95.73	22.62	0.04
Lake	SDM-104	W2010LA062	PEM	--	43.970060	-97.280718	Vermillion	10170102	Survey	95.73	18.65	0.05
Lake	SDM-104	W2010LA061	PEM	--	43.970560	-97.280367	Vermillion	10170102	Survey	95.74	0.00	0.06
Lake	SDM-104	W2010LA060	PEM	--	43.972845	-97.284874	Vermillion	10170102	Survey	96.02	0.00	0.06
Lake	SDM-104	W2010LA059	PEM	--	43.973783	-97.286268	Vermillion	10170102	Survey	96.11	0.00	0.05
Lake	SDM-104	W2002LA076	PEM	--	43.976248	-97.297652	Vermillion	10170102	Survey	96.73	46.24	0.26
Lake	SDM-104	W2002LA075	PEM	--	43.978436	-97.302050	Vermillion	10170102	Survey	96.99	0.00	0.00
Lake	SDM-104	W2002LA075	PEM	--	43.978069	-97.302869	Vermillion	10170102	Survey	97.01	53.33	0.36
Lake	SDM-104	W_9_LA_855_DT	PEM	--	43.978362	-97.306994	Vermillion	10170102	Desktop	97.23	30.84	0.11
Lake	SDM-104	W_9_LA_004_DT	PEM	--	43.978149	-97.306988	Vermillion	10170102	Desktop	97.23	0.00	0.01
Lake	SDM-104	W_9_LA_004_DT	PEM	--	43.978286	-97.307109	Vermillion	10170102	Desktop	97.24	0.00	0.14
Lake	SDM-104	W_9_LA_004_DT	PEM	--	43.978379	-97.308490	Vermillion	10170102	Desktop	97.30	0.00	0.20
Lake	SDM-104	W_9_LA_854_DT	PEM	--	43.979153	-97.309069	Vermillion	10170102	Desktop	97.34	0.00	0.04

Wetland Crossing Table												
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Lake	SDM-104	W_9_LA_854_DT	PEM	--	43.979171	-97.310322	Vermillion	10170102	Desktop	97.40	14.81	0.07
Lake	SDM-104	W_9_LA_004_DT	PEM	--	43.978594	-97.308754	Vermillion	10170102	Desktop	97.41	18.78	0.87
Lake	SDM-104	W_9_LA_004_DT	PEM	--	43.978939	-97.310671	Vermillion	10170102	Desktop	97.42	42.86	0.47
Lake	SDM-104	W_9_LA_003_DT	PEM	--	43.980301	-97.315553	Vermillion	10170102	Desktop	97.67	0.00	0.09
Lake	SDM-104	W_9_LA_851_DT	PEM	--	43.983715	-97.321797	Vermillion	10170102	Desktop	98.08	55.67	0.33
Lake	SDM-104	W2002LA057	PEM	--	44.012014	-97.338550	Vermillion	10170102	Survey	100.39	236.02	0.62
Lake	SDM-104	W2002LA055	PEM	--	44.020060	-97.347128	Vermillion	10170102	Survey	101.09	68.79	0.13
Lake	SDM-104	W2002LA054	PEM	--	44.040018	-97.363962	Vermillion	10170102	Survey	102.83	0.00	0.04
Lake	SDM-104	W2006LA124	PEM	--	44.042608	-97.367764	Vermillion	10170102	Survey	103.09	0.00	0.22
Lake	SDM-104	W2023MI181	PEM	--	44.045196	-97.373239	Vermillion	10170102	Survey	103.41	92.08	0.73
Lake	SDT-206	W2006LA087	PEM	--	43.971186	-96.955482	Lower Big Sioux	10170203	Survey	0.06	0.00	0.24
Lake	SDT-206	W2006LA088	PEM	--	43.971342	-96.959579	Lower Big Sioux	10170203	Survey	0.26	7.81	0.06
Lake	SDT-206	W2015LA005	PEM	--	43.944108	-96.967520	Lower Big Sioux	10170203	Survey	2.31	26.92	0.29
Lake	SDT-206	W2015LA006	PEM	--	43.942543	-96.969026	Lower Big Sioux	10170203	Survey	2.44	99.01	0.37
Lake	SDT-206	W2015LA007	PEM	--	43.934582	-96.969076	Lower Big Sioux	10170203	Survey	3.00	0.00	0.04
Lake	SDT-206	W2015LA008	PEM	--	43.930760	-96.968308	Lower Big Sioux	10170203	Survey	3.29	173.30	0.78
Lake	SDT-206	W_9_LA_001_DT	PFO	--	43.930390	-96.969136	Lower Big Sioux	10170203	Desktop	3.33	0.00	0.05
Lake	SDT-206	W_9_LA_001_DT	PFO	--	43.930269	-96.969309	Lower Big Sioux	10170203	Desktop	3.33	0.00	0.00
Lake	SDT-206	W_2_LA_586_DT	PEM	--	43.928942	-96.969594	Lower Big Sioux	10170203	Desktop	3.42	106.47	0.53
Lake	SDT-206	W2006LA120	PEM	--	43.927868	-96.970397	Lower Big Sioux	10170203	Survey	3.50	56.92	0.51
Lake	SDT-206	W2006LA121	PEM	--	43.926742	-96.970865	Lower Big Sioux	10170203	Survey	3.59	37.81	0.27
Lake	SDT-206	W2015LA011	PEM	--	43.917005	-96.999504	Lower Big Sioux	10170203	Survey	5.49	14.66	0.26
Lake	SDT-206	W2015LA011	PEM	--	43.916773	-96.999613	Lower Big Sioux	10170203	Survey	5.50	151.99	0.29
Lake	SDT-206	W2015LA009	PEM	--	43.914477	-96.999429	Lower Big Sioux	10170203	Survey	5.64	0.00	0.19
Lake	SDT-206	W2015LA009	PEM	--	43.914762	-96.999357	Lower Big Sioux	10170203	Survey	5.64	0.00	0.08
Lake	SDT-206	W2015LA009	PEM	--	43.914139	-96.999983	Lower Big Sioux	10170203	Survey	5.71	279.07	0.36
Lake	SDT-206	W2011LA049	PEM	--	43.913791	-97.012269	Lower Big Sioux	10170203	Survey	6.33	386.18	1.44
Lake	SDT-206	W2005LA193	PEM	--	43.906439	-97.042333	Lower Big Sioux	10170203	Survey	8.00	0.00	0.03
Lake	SDT-206	W2005LA193	PEM	--	43.906432	-97.042478	Lower Big Sioux	10170203	Survey	8.00	0.00	0.26

Wetland Crossing Table												
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Lake	SDT-206	W_9_LA_023_DT_USACE	PEM	--	43.898698	-97.066381	Lower Big Sioux	10170203	Desktop	9.45	145.24	0.94
Lake	SDT-206	W2002LA127	PEM	--	43.898394	-97.075167	Lower Big Sioux	10170203	Survey	9.88	23.14	0.13
Lake	SDT-206	W2023LA007	PEM	--	43.898408	-97.089626	Lower Big Sioux	10170203	Survey	10.62	30.31	0.35
Lake	SDT-206	W2010LA042	PEM	--	43.884419	-97.098864	Lower Big Sioux	10170203	Survey	11.74	0.00	0.06
Lake	SDT-206	W2010LA042	PEM	--	43.884383	-97.098954	Lower Big Sioux	10170203	Survey	11.74	0.00	0.03
Lake	SDT-206	W_2_LA_386_DT	PEM	--	43.884312	-97.098715	Lower Big Sioux	10170203	Desktop	11.75	37.60	0.32
Lake	SDT-206	W_9_LA_161_DT_USACE	PEM	--	43.883949	-97.104486	Lower Big Sioux	10170203	Desktop	12.02	642.83	3.30
Lake	SDT-206	W_9_LA_019_DT_USACE	PEM	--	43.884676	-97.134947	Lower Big Sioux	10170203	Desktop	13.56	129.08	0.97
Lake	SDT-206	W_9_LA_019_DT_USACE	PEM	--	43.884324	-97.135971	Lower Big Sioux	10170203	Desktop	13.61	0.00	0.00
Lake	SDT-206	W2020LA026	PEM	--	43.878434	-97.145639	Lower Big Sioux	10170203	Survey	14.33	60.23	0.19
Lake	SDT-206	W2020LA025	PEM	--	43.877976	-97.146051	Lower Big Sioux	10170203	Survey	14.36	63.16	0.28
Lincoln	SDM-104	W_10_LI_105_DT	PEM	--	43.356376	-96.558240	Lower Big Sioux	10170203	Desktop	28.83	0.00	0.02
Lincoln	SDM-104	W_10_LI_105_DT	PEM	--	43.356390	-96.558280	Lower Big Sioux	10170203	Desktop	28.83	0.00	0.02
Lincoln	SDM-104	W_10_LI_106_DT	PEM	--	43.357267	-96.558794	Lower Big Sioux	10170203	Desktop	28.88	30.41	0.09
Lincoln	SDM-104	W_12_LI_002_DT	PEM	--	43.374385	-96.585320	Lower Big Sioux	10170203	Desktop	30.80	0.00	0.93
Lincoln	SDM-104	W_12_LI_002_DT	PEM	--	43.374798	-96.588549	Lower Big Sioux	10170203	Desktop	30.90	35.61	0.27
Lincoln	SDM-104	W_10_LI_005_DT	PEM	--	43.380544	-96.598225	Lower Big Sioux	10170203	Desktop	31.60	0.00	0.33
Lincoln	SDM-104	W_10_LI_006_DT	PEM	--	43.381522	-96.601208	Lower Big Sioux	10170203	Desktop	31.76	20.45	0.08
Lincoln	SDM-104	W2002LI108	PEM	--	43.381821	-96.600814	Lower Big Sioux	10170203	Survey	31.77	13.37	0.13
Lincoln	SDM-104	W_10_LI_007_DT	PEM	--	43.382342	-96.602411	Lower Big Sioux	10170203	Desktop	31.83	0.00	0.21
Lincoln	SDM-104	W2002LI107	PEM	--	43.382660	-96.602181	Lower Big Sioux	10170203	Survey	31.85	257.21	1.07
Lincoln	SDM-104	W2002LI107	PEM	--	43.383865	-96.603175	Lower Big Sioux	10170203	Survey	31.96	0.00	0.18
Lincoln	SDM-104	W_10_LI_008_DT	PEM	--	43.384050	-96.603302	Lower Big Sioux	10170203	Desktop	31.96	0.00	0.00
Lincoln	SDM-104	W_10_LI_107_DT	PEM	--	43.384038	-96.607379	Lower Big Sioux	10170203	Desktop	32.16	636.92	2.35
Lincoln	SDM-104	W_10_LI_108_DT	PEM	--	43.384286	-96.608992	Lower Big Sioux	10170203	Desktop	32.22	0.00	0.03
Lincoln	SDM-104	W_10_LI_108_DT	PEM	--	43.383992	-96.609915	Lower Big Sioux	10170203	Desktop	32.31	874.16	4.70
Lincoln	SDM-104	W_10_LI_108_DT	PEM	--	43.384633	-96.610714	Lower Big Sioux	10170203	Desktop	32.33	0.00	0.23
Lincoln	SDM-104	W_10_LI_108_DT	PEM	--	43.385384	-96.613489	Lower Big Sioux	10170203	Desktop	32.49	174.64	0.89
Lincoln	SDM-104	W_10_LI_109_DT	PEM	--	43.385997	-96.615964	Lower Big Sioux	10170203	Desktop	32.62	195.38	1.21

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Lincoln	SDM-104	W_10_LI_109_DT	PEM	--	43.386373	-96.615985	Lower Big Sioux	10170203	Desktop	32.62	0.00	0.05
Lincoln	SDM-104	W_10_LI_009_DT	PEM	--	43.386101	-96.633454	Lower Big Sioux	10170203	Desktop	33.51	606.26	4.40
Lincoln	SDM-104	W_10_LI_010_DT	PEM	--	43.386179	-96.637283	Lower Big Sioux	10170203	Desktop	33.69	650.86	4.43
Lincoln	SDM-104	W_10_LI_011_DT	PEM	--	43.386621	-96.645008	Lower Big Sioux	10170203	Desktop	34.09	0.00	0.07
Lincoln	SDM-104	W_10_LI_012_DT	PEM	--	43.386544	-96.646281	Lower Big Sioux	10170203	Desktop	34.15	0.00	0.35
Lincoln	SDM-104	W_10_LI_013_DT	PEM	--	43.386253	-96.648299	Lower Big Sioux	10170203	Desktop	34.25	21.01	0.14
Lincoln	SDM-104	W_10_LI_014_DT	PEM	--	43.386213	-96.649625	Lower Big Sioux	10170203	Desktop	34.30	547.51	2.03
Lincoln	SDM-104	W_10_LI_110_DT	PEM	--	43.385667	-96.650717	Lower Big Sioux	10170203	Desktop	34.39	0.00	0.10
Lincoln	SDM-104	W_10_LI_015_DT	PEM	--	43.386019	-96.651827	Lower Big Sioux	10170203	Desktop	34.43	29.91	0.29
Lincoln	SDM-104	W_10_LI_016_DT	PEM	--	43.385575	-96.653042	Lower Big Sioux	10170203	Desktop	34.49	171.63	0.63
Lincoln	SDM-104	W_10_LI_017_DT	PEM	--	43.384690	-96.653874	Lower Big Sioux	10170203	Desktop	34.56	123.20	0.84
Lincoln	SDM-104	W-12_LI_003_DT	PEM	--	43.381296	-96.657363	Lower Big Sioux	10170203	Desktop	34.86	8.65	0.06
Lincoln	SDM-104	W_12_LI_004_DT	PEM	--	43.380528	-96.657836	Lower Big Sioux	10170203	Desktop	34.92	139.01	0.89
Lincoln	SDM-104	W_12_LI_005_DT	PEM	--	43.378570	-96.662961	Lower Big Sioux	10170203	Desktop	35.21	810.75	2.95
Lincoln	SDM-104	W_12_LI_006_DT	PEM	--	43.378548	-96.670037	Lower Big Sioux	10170203	Desktop	35.59	56.12	0.42
Lincoln	SDM-104	W_12_LI_006_DT	PEM	--	43.378347	-96.671041	Lower Big Sioux	10170203	Desktop	35.64	15.79	0.49
Lincoln	SDM-104	W_12_LI_007_DT	PEM	--	43.378918	-96.672033	Lower Big Sioux	10170203	Desktop	35.69	0.00	0.10
Lincoln	SDM-104	W_2_LI_339_DT	PEM	--	43.378149	-96.672188	Lower Big Sioux	10170203	Desktop	35.69	0.00	0.04
Lincoln	SDM-104	W_9_LI_003_DT	PEM	--	43.378483	-96.673190	Lower Big Sioux	10170203	Desktop	35.74	82.17	0.58
Lincoln	SDM-104	W_2_LI_343_DT	PEM	--	43.378297	-96.674924	Lower Big Sioux	10170203	Desktop	35.83	0.00	0.12
Lincoln	SDM-104	W_9_LI_004_DT	PEM	--	43.378866	-96.677400	Lower Big Sioux	10170203	Desktop	35.96	74.50	0.65
Lincoln	SDM-104	W_12_LI_001_DT	PEM	--	43.381710	-96.691652	Lower Big Sioux	10170203	Desktop	36.71	29.26	0.18
Lincoln	SDM-104	W3112LI073	PEM	--	43.381776	-96.692542	Lower Big Sioux	10170203	Survey	36.76	19.04	0.11
Lincoln	SDM-104	W_10_LI_111_DT	PEM	--	43.385601	-96.703098	Lower Big Sioux	10170203	Desktop	37.37	34.66	0.46
Lincoln	SDM-104	W_10_LI_043_DT	PEM	--	43.388337	-96.703208	Lower Big Sioux	10170203	Desktop	37.58	130.04	0.32
Lincoln	SDM-104	W_10_LI_044_DT	PEM	--	43.388408	-96.706569	Lower Big Sioux	10170203	Desktop	37.75	423.47	1.52
Lincoln	SDM-104	W_10_LI_046_DT	PEM	--	43.388661	-96.709174	Lower Big Sioux	10170203	Desktop	37.83	334.12	1.95
Lincoln	SDM-104	W_10_LI_047_DT	PEM	--	43.388547	-96.714936	Lower Big Sioux	10170203	Desktop	38.18	1,787.29	7.46
Lincoln	SDM-104	W_10_LI_112_DT	PEM	--	43.388417	-96.718265	Lower Big Sioux	10170203	Desktop	38.33	0.00	0.22

Wetland Crossing Table												
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Lincoln	SDM-104	W_10_LI_113_DT	PEM	--	43.389262	-96.718972	Lower Big Sioux	10170203	Desktop	38.39	0.00	0.07
Lincoln	SDM-104	W_10_LI_114_DT	PEM	--	43.390523	-96.720030	Lower Big Sioux	10170203	Desktop	38.49	0.00	0.09
Lincoln	SDM-104	W_10_LI_052_DT	PEM	--	43.392043	-96.720549	Lower Big Sioux	10170203	Desktop	38.59	0.00	0.02
Lincoln	SDM-104	W_10_LI_115_DT	PEM	--	43.392222	-96.721991	Lower Big Sioux	10170203	Desktop	38.64	0.00	0.05
Lincoln	SDM-104	W_10_LI_116_DT	PEM	--	43.393556	-96.722840	Lower Big Sioux	10170203	Desktop	38.77	295.72	0.85
Lincoln	SDM-104	W_10_LI_056_DT	PEM	--	43.394998	-96.724431	Lower Big Sioux	10170203	Desktop	38.87	54.23	1.05
Lincoln	SDM-104	W_10_LI_057_DT	PEM	--	43.395580	-96.725958	Lower Big Sioux	10170203	Desktop	38.98	184.65	0.99
Lincoln	SDM-104	W_10_LI_058_DT	PEM	--	43.395670	-96.727307	Lower Big Sioux	10170203	Desktop	39.04	14.24	0.06
Lincoln	SDM-104	W_10_LI_059_DT	PEM	--	43.395508	-96.728291	Lower Big Sioux	10170203	Desktop	39.09	144.24	0.29
Lincoln	SDM-104	W_10_LI_060_DT	PEM	--	43.395601	-96.730106	Lower Big Sioux	10170203	Desktop	39.18	167.26	0.70
Lincoln	SDM-104	W_10_LI_061_DT	PEM	--	43.395232	-96.730167	Lower Big Sioux	10170203	Desktop	39.20	0.00	0.30
Lincoln	SDM-104	W_10_LI_062_DT	PEM	--	43.395534	-96.732351	Lower Big Sioux	10170203	Desktop	39.32	277.13	2.26
Lincoln	SDM-104	W_10_LI_063_DT	PEM	--	43.395761	-96.736800	Lower Big Sioux	10170203	Desktop	39.52	16.97	0.18
Lincoln	SDM-104	W_10_LI_064_DT	PEM	--	43.395310	-96.737911	Lower Big Sioux	10170203	Desktop	39.57	586.07	1.91
Lincoln	SDM-104	W_10_LI_965_DT	PEM	--	43.396006	-96.743087	Lower Big Sioux	10170203	Desktop	39.84	0.00	0.01
Lincoln	SDM-104	W_10_LI_064_DT	PEM	--	43.395715	-96.744259	Lower Big Sioux	10170203	Desktop	39.94	643.15	3.54
Lincoln	SDM-104	W_10_LI_065_DT	PEM	--	43.395985	-96.747559	Lower Big Sioux	10170203	Desktop	40.06	0.00	0.21
Lincoln	SDM-104	W_10_LI_066_DT	PEM	--	43.395360	-96.748246	Lower Big Sioux	10170203	Desktop	40.09	0.00	0.26
Lincoln	SDM-104	W_10_LI_067_DT	PEM	--	43.395326	-96.749462	Lower Big Sioux	10170203	Desktop	40.16	0.00	0.14
Lincoln	SDM-104	W_10_LI_068_DT	PEM	--	43.395571	-96.750869	Lower Big Sioux	10170203	Desktop	40.23	107.96	0.79
Lincoln	SDM-104	W_10_LI_068_DT	PEM	--	43.395640	-96.752628	Lower Big Sioux	10170203	Desktop	40.33	188.72	1.16
Lincoln	SDM-104	W_10_LI_070_DT	PEM	--	43.395669	-96.755039	Lower Big Sioux	10170203	Desktop	40.45	537.50	2.33
Lincoln	SDM-104	W_10_LI_071_DT	PEM	--	43.395615	-96.757206	Lower Big Sioux	10170203	Desktop	40.55	54.69	0.12
Lincoln	SDM-104	W_10_LI_117_DT	PEM	--	43.395340	-96.758698	Lower Big Sioux	10170203	Desktop	40.62	0.00	0.13
Lincoln	SDM-104	W_10_LI_072_DT	PEM	--	43.395595	-96.758989	Lower Big Sioux	10170203	Desktop	40.63	368.36	0.92
Lincoln	SDM-104	W_10_LI_118_DT	PEM	--	43.395336	-96.759837	Lower Big Sioux	10170203	Desktop	40.67	0.00	0.12
Lincoln	SDM-104	W_10_LI_119_DT	PEM	--	43.395275	-96.762017	Lower Big Sioux	10170203	Desktop	40.78	0.00	0.07
Lincoln	SDM-104	W_10_LI_120_DT	PEM	--	43.395306	-96.763105	Lower Big Sioux	10170203	Desktop	40.84	0.00	0.05
Lincoln	SDM-104	W_10_LI_073_DT	PEM	--	43.395815	-96.763357	Lower Big Sioux	10170203	Desktop	40.86	317.89	2.79

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Lincoln	SDM-104	W_10_LI_074_DT	PEM	--	43.395688	-96.765495	Lower Big Sioux	10170203	Desktop	40.96	52.91	0.33
Lincoln	SDM-104	W_10_LI_075_DT	PEM	--	43.395651	-96.767816	Lower Big Sioux	10170203	Desktop	41.08	138.81	0.76
Lincoln	SDM-104	W_10_LI_076_DT	PEM	--	43.395479	-96.769153	Lower Big Sioux	10170203	Desktop	41.14	0.00	0.57
Lincoln	SDM-104	W_10_LI_077_DT	PEM	--	43.395461	-96.771169	Lower Big Sioux	10170203	Desktop	41.25	153.65	0.92
Lincoln	SDM-104	W_10_LI_078_DT	PEM	--	43.395177	-96.774702	Lower Big Sioux	10170203	Desktop	41.44	182.10	1.19
Lincoln	SDM-104	W_10_LI_079_DT	PEM	--	43.394796	-96.775616	Lower Big Sioux	10170203	Desktop	41.48	0.00	0.32
Lincoln	SDM-104	W_10_LI_080_DT	PEM	--	43.395106	-96.776636	Lower Big Sioux	10170203	Desktop	41.55	288.29	1.36
Lincoln	SDM-104	W_10_LI_081_DT	PEM	--	43.394937	-96.778203	Lower Big Sioux	10170203	Desktop	41.62	163.12	0.77
Lincoln	SDM-104	W_10_LI_082_DT	PEM	--	43.395136	-96.781181	Lower Big Sioux	10170203	Desktop	41.79	815.35	3.58
Lincoln	SDM-104	W_10_LI_082_DT	PEM	--	43.394886	-96.782710	Lower Big Sioux	10170203	Desktop	41.87	0.00	0.23
Lincoln	SDM-104	W_10_LI_083_DT	PEM	--	43.395292	-96.785144	Lower Big Sioux	10170203	Desktop	41.97	190.00	0.71
Lincoln	SDM-104	W_10_LI_084_DT	PEM	--	43.394907	-96.786244	Lower Big Sioux	10170203	Desktop	42.04	70.79	0.64
Lincoln	SDM-104	W_10_LI_085_DT	PEM	--	43.395798	-96.789162	Lower Big Sioux	10170203	Desktop	42.19	118.39	0.54
Lincoln	SDM-104	W_10_LI_086_DT	PEM	--	43.396772	-96.789670	Lower Big Sioux	10170203	Desktop	42.25	370.80	1.10
Lincoln	SDM-104	W_10_LI_086_DT	PEM	--	43.397110	-96.790071	Lower Big Sioux	10170203	Desktop	42.29	14.90	0.09
Lincoln	SDM-104	W_10_LI_087_DT	PEM	--	43.398144	-96.791209	Lower Big Sioux	10170203	Desktop	42.38	0.00	0.31
Lincoln	SDM-104	W_10_LI_088_DT	PEM	--	43.398945	-96.791652	Lower Big Sioux	10170203	Desktop	42.44	215.75	1.09
Lincoln	SDM-104	W_10_LI_089_DT	PEM	--	43.401494	-96.793994	Lower Big Sioux	10170203	Desktop	42.66	0.00	0.39
Lincoln	SDM-104	W_10_LI_090_DT	PEM	--	43.402722	-96.794866	Lower Big Sioux	10170203	Desktop	42.78	0.00	0.30
Lincoln	SDM-104	W_10_LI_121_DT	PEM	--	43.402689	-96.797629	Lower Big Sioux	10170203	Desktop	42.88	0.00	0.03
Lincoln	SDM-104	W_10_LI_122_DT	PEM	--	43.403153	-96.799451	Lower Big Sioux	10170203	Desktop	42.97	111.77	0.54
Lincoln	SDM-104	W_10_LI_123_DT	PEM	--	43.403731	-96.800993	Lower Big Sioux	10170203	Desktop	43.06	136.42	0.83
Lincoln	SDM-104	W_10_LI_124_DT	PEM	--	43.403800	-96.802206	Lower Big Sioux	10170203	Desktop	43.12	64.76	0.35
Lincoln	SDM-104	W_10_LI_125_DT	PEM	--	43.404256	-96.803695	Lower Big Sioux	10170203	Desktop	43.18	622.98	2.81
Lincoln	SDM-104	W_10_LI_126_DT	PEM	--	43.404512	-96.805654	Lower Big Sioux	10170203	Desktop	43.30	57.01	0.26
Lincoln	SDM-104	W_10_LI_125_DT	PEM	--	43.404971	-96.805569	Lower Big Sioux	10170203	Desktop	43.30	0.00	0.04
Lincoln	SDM-104	W_10_LI_128_DT	PEM	--	43.405991	-96.810170	Lower Big Sioux	10170203	Desktop	43.55	0.00	0.11
Lincoln	SDM-104	W_10_LI_129_DT	PEM	--	43.407211	-96.812716	Lower Big Sioux	10170203	Desktop	43.70	0.00	0.25
Lincoln	SDM-104	W_10_LI_130_DT	PEM	--	43.408290	-96.813403	Lower Big Sioux	10170203	Desktop	43.79	53.67	1.26

Wetland Crossing Table												
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Lincoln	SDM-104	W_10_LI_131_DT	PEM	--	43.408958	-96.816013	Lower Big Sioux	10170203	Desktop	43.91	178.97	0.66
Lincoln	SDM-104	W_10_LI_132_DT	PEM	--	43.411507	-96.840673	Lower Big Sioux	10170203	Desktop	45.21	0.00	0.00
Lincoln	SDM-104	W2008LI014	PEM	--	43.412012	-96.844971	Lower Big Sioux	10170203	Survey	45.43	17.84	0.08
Lincoln	SDM-104	W_10_LI_135_DT	PEM	--	43.412278	-96.847915	Lower Big Sioux	10170203	Desktop	45.57	206.40	1.44
Lincoln	SDM-104	W_10_LI_136_DT	PEM	--	43.412219	-96.848733	Lower Big Sioux	10170203	Desktop	45.61	104.26	0.73
Lincoln	SDM-104	W_10_LI_137_DT	PEM	--	43.412326	-96.850132	Lower Big Sioux	10170203	Desktop	45.70	76.65	0.68
Lincoln	SDM-104	W_10_LI_137_DT	PEM	--	43.412247	-96.852216	Lower Big Sioux	10170203	Desktop	45.79	107.87	0.78
Lincoln	SDM-104	W_10_LI_138_DT	PEM	--	43.412308	-96.853590	Lower Big Sioux	10170203	Desktop	45.85	181.15	1.37
Lincoln	SDM-104	W_10_LI_138_DT	PEM	--	43.412692	-96.856694	Lower Big Sioux	10170203	Desktop	46.06	82.31	0.46
Lincoln	SDM-104	W2015LI222	PEM	--	43.419495	-96.866347	Lower Big Sioux	10170203	Survey	46.71	49.27	0.26
Lincoln	SDM-104	W2015LI223	PEM	--	43.420294	-96.868012	Lower Big Sioux	10170203	Survey	46.82	0.00	0.33
Lincoln	SDM-104	W2015LI224	PEM	--	43.426006	-96.874956	Lower Big Sioux	10170203	Survey	47.35	24.55	0.50
Lincoln	SDM-104	W2008LI016	PEM	--	43.432024	-96.884779	Lower Big Sioux	10170203	Survey	48.03	23.75	0.09
Lincoln	SDM-104	W_9_LI_519_DT	PEM	--	43.432150	-96.885026	Lower Big Sioux	10170203	Desktop	48.04	12.37	0.03
Lincoln	SDM-104	W2008LI017	PEM	--	43.432174	-96.884827	Lower Big Sioux	10170203	Survey	48.04	11.45	0.06
Lincoln	SDM-104	W_2_LI_354_DT	PEM	--	43.436581	-96.893353	Lower Big Sioux	10170203	Desktop	48.57	0.00	0.03
Lincoln	SDM-104	W2008LI018	PEM	--	43.436975	-96.893199	Lower Big Sioux	10170203	Survey	48.59	10.72	0.09
Lincoln	SDM-104	W_9_LI_083_DT_USACE	PEM	--	43.437777	-96.894465	Lower Big Sioux	10170203	Desktop	48.68	0.00	0.17
Lincoln	SDM-104	W_9_LI_136_DT_USACE	PEM	--	43.449884	-96.904279	Lower Big Sioux	10170203	Desktop	49.67	399.38	1.86
Lincoln	SDM-104	W2004LI131	PEM	--	43.451963	-96.910451	Lower Big Sioux	10170203	Survey	50.05	0.00	0.11
Lincoln	SDM-104	W2004LI132	PEM	--	43.452720	-96.912520	Lower Big Sioux	10170203	Survey	50.13	37.39	0.22
Lincoln	SDM-104	W2004LI132	PEM	--	43.452815	-96.912644	Lower Big Sioux	10170203	Survey	50.14	37.43	0.27
Lincoln	SDM-104	W2004LI133	PEM	--	43.452667	-96.913082	Lower Big Sioux	10170203	Survey	50.15	22.51	0.19
Lincoln	SDM-104	W2004LI134	PEM	--	43.453946	-96.916640	Lower Big Sioux	10170203	Survey	50.35	194.58	0.98
Lincoln	SDM-104	W2004LI134	PEM	--	43.454693	-96.917244	Lower Big Sioux	10170203	Survey	50.47	846.81	2.75
Lincoln	SDM-104	W2004LI134	PEM	--	43.455494	-96.918650	Lower Big Sioux	10170203	Survey	50.52	0.00	0.01
Lincoln	SDM-104	W2004LI134	PEM	--	43.456214	-96.918429	Lower Big Sioux	10170203	Survey	50.53	0.00	0.13
Lincoln	SDM-104	W2004LI135	PEM	--	43.456548	-96.919282	Lower Big Sioux	10170203	Survey	50.58	107.32	0.29
Lincoln	SDT-409	W_9_LI_520_DT	PEM	--	43.378331	-96.923823	Vermillion	10170102	Desktop	2.02	0.00	0.22

Wetland Crossing Table												
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Lincoln	SDT-409	W_9_LI_521_DT	PEM	--	43.377717	-96.920809	Vermillion	10170102	Desktop	2.20	77.24	0.86
Lincoln	SDT-409	W_9_LI_522_DT	PEM	--	43.378306	-96.914051	Vermillion	10170102	Desktop	2.54	311.26	1.40
Lincoln	SDT-409	W_9_TU_262_DT	PEM	--	43.378996	-96.912562	Vermillion	10170102	Desktop	2.63	115.44	0.66
Lincoln	SDT-409	W_9_LI_523_DT	PEM	--	43.378869	-96.911110	Vermillion	10170102	Desktop	2.69	0.00	0.01
Lincoln	SDT-409	W_9_TU_263_DT	PEM	--	43.379282	-96.911224	Vermillion	10170102	Desktop	2.69	159.31	1.06
Lincoln	SDT-409	W_9_TU_264_DT	PEM	--	43.379888	-96.908647	Vermillion	10170102	Desktop	2.83	125.54	0.64
Lincoln	SDT-409	W_9_TU_265_DT	PEM	--	43.380562	-96.907366	Vermillion	10170102	Desktop	2.91	265.01	1.43
Lincoln	SDT-409	W_9_TU_266_DT	PEM	--	43.380861	-96.906158	Vermillion	10170102	Desktop	2.97	130.97	1.04
Lincoln	SDT-409	W_9_TU_267_DT	PEM	--	43.381038	-96.900840	Vermillion	10170102	Desktop	3.24	138.51	0.69
Lincoln	SDT-409	W_9_LI_527_DT	PEM	--	43.380981	-96.898525	Vermillion	10170102	Desktop	3.36	61.16	0.33
Lincoln	SDT-409	W_9_LI_527_DT	PEM	--	43.381109	-96.897558	Vermillion	10170102	Desktop	3.40	75.65	0.70
Lincoln	SDT-409	W_9_LI_528_DT	PEM	--	43.381255	-96.894854	Vermillion	10170102	Desktop	3.54	3.61	0.10
Lincoln	SDT-409	W_9_LI_528_DT	PEM	--	43.381075	-96.894681	Vermillion	10170102	Desktop	3.55	33.31	0.25
Lincoln	SDT-409	W_9_LI_529_DT	PEM	--	43.381116	-96.892168	Vermillion	10170102	Desktop	3.67	400.47	2.06
Lincoln	SDT-409	W_9_LI_530_DT	PEM	--	43.380893	-96.888973	Vermillion	10170102	Desktop	3.83	106.46	0.60
Lincoln	SDT-409	W_10_LI_104_DT	PEM	--	43.380929	-96.883936	Vermillion	10170102	Desktop	4.10	1,062.29	4.21
Lincoln	SDT-409	W_10_LI_103_DT	PEM	--	43.380983	-96.878584	Vermillion	10170102	Desktop	4.38	852.60	4.44
Lincoln	SDT-409	W_10_LI_102_DT	PEM	--	43.380951	-96.872975	Vermillion	10170102	Desktop	4.67	861.93	4.33
Lincoln	SDT-409	W_10_LI_101_DT	PEM	--	43.380866	-96.867956	Vermillion	10170102	Desktop	4.89	52.84	0.53
Lincoln	SDT-409	W_10_LI_100_DT	PEM	--	43.381109	-96.864514	Vermillion	10170102	Desktop	5.07	58.36	0.77
Lincoln	SDT-409	W_10_LI_099_DT	PEM	--	43.381055	-96.862712	Vermillion	10170102	Desktop	5.14	199.68	1.45
Lincoln	SDT-409	W_10_LI_098_DT	PEM	--	43.382818	-96.859153	Vermillion	10170102	Desktop	5.40	16.27	0.23
Lincoln	SDT-409	W_10_LI_098_DT	PEM	--	43.382926	-96.858999	Vermillion	10170102	Desktop	5.41	24.44	0.26
Lincoln	SDT-409	W_10_LI_097_DT	PEM	--	43.384594	-96.857934	Vermillion	10170102	Desktop	5.55	181.39	1.65
Lincoln	SDT-409	W_10_LI_096_DT	PEM	--	43.386339	-96.856788	Vermillion	10170102	Desktop	5.67	161.50	0.74
Lincoln	SDT-409	W_10_LI_096_DT	PEM	--	43.386717	-96.856496	Lower Big Sioux	10170203	Desktop	5.70	178.08	0.75
Lincoln	SDT-409	W_10_LI_095_DT	PEM	--	43.387615	-96.856429	Lower Big Sioux	10170203	Desktop	5.80	337.13	1.23
Lincoln	SDT-409	W_10_LI_094_DT	PEM	--	43.389592	-96.855592	Lower Big Sioux	10170203	Desktop	5.93	551.45	2.84
Lincoln	SDT-409	W_10_LI_093_DT	PEM	--	43.394074	-96.855561	Lower Big Sioux	10170203	Desktop	6.21	187.74	1.15

Wetland Crossing Table												
County	Route ID	Feature ID	Feature Type	Feature Name	Latitude	Longitude	HUC 8 Watershed Name	HUC 8 Watershed No.	Survey or Desktop	Approx. MP	ESC Crossing Length (ft)	ESC Total Acres
Lincoln	SDT-409	W_10_LI_092_DT	PEM	--	43.395462	-96.855620	Lower Big Sioux	10170203	Desktop	6.31	183.07	1.00
Lincoln	SDT-409	W_10_LI_091_DT	PEM	--	43.397095	-96.855363	Lower Big Sioux	10170203	Desktop	6.44	201.42	1.32
Lincoln	SDT-409	W_10_LI_141_DT	PEM	--	43.404643	-96.855788	Lower Big Sioux	10170203	Desktop	6.95	509.70	2.57
Lincoln	SDT-409	W_10_LI_140_DT	PEM	--	43.407010	-96.856243	Lower Big Sioux	10170203	Desktop	7.12	201.35	2.71
Lincoln	SDT-409	W_10_LI_139_DT	PEM	--	43.409438	-96.856257	Lower Big Sioux	10170203	Desktop	7.26	93.81	1.12
Lincoln	SDT-409	W_10_LI_138_DT	PEM	--	43.411437	-96.855922	Lower Big Sioux	10170203	Desktop	7.41	83.08	0.70
Lincoln	SDT-409	W_10_LI_138_DT	PEM	--	43.412308	-96.853590	Lower Big Sioux	10170203	Desktop	7.58	185.52	1.37
Lincoln	SDT-409	W_10_LI_137_DT	PEM	--	43.412247	-96.852216	Lower Big Sioux	10170203	Desktop	7.64	112.63	0.78
Lincoln	SDT-409	W_10_LI_137_DT	PEM	--	43.412326	-96.850132	Lower Big Sioux	10170203	Desktop	7.73	75.92	0.68
Lincoln	SDT-409	W_10_LI_136_DT	PEM	--	43.412219	-96.848733	Lower Big Sioux	10170203	Desktop	7.82	111.55	0.73
Lincoln	SDT-409	W_10_LI_135_DT	PEM	--	43.412278	-96.847915	Lower Big Sioux	10170203	Desktop	7.86	203.11	1.44
McCook	SDM-104	W2002MK063	PEM	--	43.828398	-97.131757	Lower Big Sioux	10170203	Survey	82.83	216.15	1.17
McCook	SDM-104	W2002MK064	PEM	--	43.836734	-97.134163	Lower Big Sioux	10170203	Survey	83.33	2,054.65	9.65
McPherson	NDM-106	W_9_MP_598_DT	PEM	--	45.726531	-99.086021	Snake	10160008	Desktop	0.44	234.16	1.54
McPherson	NDM-106	W_9_MP_597_DT	PEM	--	45.735284	-99.103557	Snake	10160008	Desktop	1.67	38.74	0.31
McPherson	NDM-106	W_9_MP_596_DT	PEM	--	45.737082	-99.108651	Snake	10160008	Desktop	1.95	0.00	1.08
McPherson	NDM-106	W_9_MP_595_DT	PEM	--	45.738219	-99.111259	Snake	10160008	Desktop	2.10	0.00	0.20
McPherson	NDM-106	W_9_MP_594_DT	PEM	--	45.738714	-99.112293	Snake	10160008	Desktop	2.16	100.29	0.88
McPherson	NDM-106	W_9_MP_593_DT	PEM	--	45.737176	-99.135388	Snake	10160008	Desktop	3.33	593.92	3.46
McPherson	NDM-106	W_9_MP_592_DT	PEM	--	45.737192	-99.143063	Snake	10160008	Desktop	3.77	335.10	2.59
McPherson	NDM-106	W_10_MP_001_DT	PEM	--	45.733619	-99.161458	Snake	10160008	Desktop	4.65	0.00	0.02
McPherson	NDM-106	W_9_MP_590_DT	PEM	--	45.729358	-99.168440	Snake	10160008	Desktop	5.12	156.66	1.05
McPherson	NDM-106	W_9_MP_589_DT	PEM	--	45.729136	-99.170067	Snake	10160008	Desktop	5.19	127.14	0.37
McPherson	NDM-106	W_9_MP_588_DT	PEM	--	45.728571	-99.171346	Snake	10160008	Desktop	5.26	0.00	0.01
McPherson	NDM-106	W_9_MP_587_DT	PEM	--	45.729131	-99.173941	Snake	10160008	Desktop	5.38	251.43	1.50
McPherson	NDM-106	W_9_MP_586_DT	PEM	--	45.729642	-99.186777	Snake	10160008	Desktop	6.01	251.90	1.84
McPherson	NDM-106	W_9_MP_585_DT	PEM	--	45.729739	-99.190741	Snake	10160008	Desktop	6.19	470.99	3.22
McPherson	NDM-106	W_9_MP_584_DT	PEM	--	45.730171	-99.202427	Snake	10160008	Desktop	6.75	75.89	0.45
McPherson	NDM-106	W_9_MP_583_DT	PEM	--	45.736586	-99.217340	Snake	10160008	Desktop	7.65	0.00	0.76

Wetland Crossing Table												
County	Route ID	Feature ID	Feature Type	Feature Name	Latitude	Longitude	HUC 8 Watershed Name	HUC 8 Watershed No.	Survey or Desktop	Approx. MP	ESC Crossing Length (ft)	ESC Total Acres
McPherson	NDM-106	W_9_MP_581_DT	PEM	--	45.738035	-99.227663	Snake	10160008	Desktop	8.15	0.00	0.64
McPherson	NDM-106	W_9_MP_580_DT	PEM	--	45.737889	-99.228796	Snake	10160008	Desktop	8.20	39.27	0.40
McPherson	NDM-106	W_9_MP_579_DT	PEM	--	45.737729	-99.230652	Snake	10160008	Desktop	8.29	196.51	0.86
McPherson	NDM-106	W_9_MP_654_DT	PEM	--	45.736888	-99.231818	Snake	10160008	Desktop	8.36	44.41	0.21
McPherson	NDM-106	W_9_MP_578_DT	PEM	--	45.736857	-99.233494	Snake	10160008	Desktop	8.45	90.70	0.87
McPherson	NDM-106	W_9_MP_577_DT	PEM	--	45.736750	-99.239242	Snake	10160008	Desktop	8.72	0.00	0.19
McPherson	NDM-106	W_9_MP_576_DT	PEM	--	45.737716	-99.243031	Snake	10160008	Desktop	8.91	0.00	0.45
McPherson	NDM-106	W_9_MP_574_DT	PEM	--	45.738776	-99.243382	Snake	10160008	Desktop	8.96	0.00	0.32
McPherson	NDM-106	W_9_MP_573_DT	PEM	--	45.740777	-99.245110	Snake	10160008	Desktop	9.16	243.69	1.89
McPherson	NDM-106	W_9_MP_572_DT	PEM	--	45.749557	-99.249087	Snake	10160008	Desktop	9.80	0.00	0.59
McPherson	NDM-106	W_9_MP_571_DT	PEM	--	45.750376	-99.248848	Snake	10160008	Desktop	9.84	20.20	0.98
McPherson	NDM-106	W_9_MP_571_DT	PEM	--	45.752156	-99.250089	Snake	10160008	Desktop	9.98	0.00	0.23
McPherson	NDM-106	W_9_MP_570_DT	PEM	--	45.753536	-99.251522	Snake	10160008	Desktop	10.11	199.54	1.84
McPherson	NDM-106	W_9_MP_569_DT	PEM	--	45.755015	-99.252730	Snake	10160008	Desktop	10.22	0.00	0.03
McPherson	NDM-106	W_9_MP_568_DT	PEM	--	45.758142	-99.253393	Snake	10160008	Desktop	10.40	0.00	0.92
McPherson	NDM-106	W_9_MP_567_DT	PEM	--	45.762214	-99.255776	Snake	10160008	Desktop	10.74	0.00	0.13
McPherson	NDM-106	W_9_MP_565_DT	PEM	--	45.766793	-99.257674	Snake	10160008	Desktop	11.09	0.00	0.43
McPherson	NDM-106	W_9_MP_563_DT	PEM	--	45.769421	-99.259077	Snake	10160008	Desktop	11.28	0.00	0.01
McPherson	NDM-106	W_9_MP_563_DT	PEM	--	45.770023	-99.258638	Snake	10160008	Desktop	11.33	0.00	0.46
McPherson	NDM-106	W_9_MP_559_DT	PEM	--	45.776379	-99.265994	West Missouri Coteau	10130106	Desktop	11.98	0.00	0.10
McPherson	NDM-106	W_9_MP_558_DT	PEM	--	45.777900	-99.268038	West Missouri Coteau	10130106	Desktop	12.11	553.22	3.83
McPherson	NDM-106	W_9_MP_557_DT	PEM	--	45.781288	-99.275213	West Missouri Coteau	10130106	Desktop	12.55	0.00	0.40
McPherson	NDM-106	W_9_MP_556_DT	PEM	--	45.782486	-99.276872	West Missouri Coteau	10130106	Desktop	12.67	81.06	1.37
McPherson	NDM-106	W_9_MP_555_DT	PEM	--	45.784297	-99.279540	West Missouri Coteau	10130106	Desktop	12.82	0.00	0.64
McPherson	NDM-106	W_9_MP_663_DT	PEM	--	45.786228	-99.282082	West Missouri Coteau	10130106	Desktop	13.02	0.00	0.24
McPherson	NDM-106	W_9_MP_552_DT	PEM	--	45.788037	-99.285091	West Missouri Coteau	10130106	Desktop	13.23	0.00	0.28
McPherson	NDM-106	W_9_MP_551_DT	PEM	--	45.790809	-99.286634	West Missouri Coteau	10130106	Desktop	13.45	0.00	0.12
McPherson	NDM-106	W_9_MP_550_DT	PEM	--	45.792600	-99.286736	West Missouri Coteau	10130106	Desktop	13.55	0.00	0.25
McPherson	NDM-106	W_9_MP_549_DT	PEM	--	45.792397	-99.287898	West Missouri Coteau	10130106	Desktop	13.58	157.18	1.21

Wetland Crossing Table												
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McPherson	NDM-106	W_9_MP_549_DT	PEM	--	45.792937	-99.289594	West Missouri Coteau	10130106	Desktop	13.70	0.00	0.56
McPherson	NDM-106	W_9_MP_662_DT	PEM	--	45.792866	-99.291059	West Missouri Coteau	10130106	Desktop	13.73	0.00	0.01
McPherson	NDM-106	W_9_MP_661_DT	PEM	--	45.793974	-99.292406	West Missouri Coteau	10130106	Desktop	13.83	0.00	0.02
McPherson	NDM-106	W_9_MP_548_DT	PEM	--	45.796096	-99.293635	West Missouri Coteau	10130106	Desktop	13.99	0.00	0.21
McPherson	NDM-106	W_9_MP_547_DT	PEM	--	45.796840	-99.295262	West Missouri Coteau	10130106	Desktop	14.07	99.93	0.85
McPherson	NDM-106	W_9_MP_546_DT	PEM	--	45.799027	-99.297462	West Missouri Coteau	10130106	Desktop	14.25	0.00	0.63
McPherson	NDM-106	W_9_MP_545_DT	PEM	--	45.798576	-99.298093	West Missouri Coteau	10130106	Desktop	14.26	0.00	0.45
McPherson	NDM-106	W_9_MP_544_DT	PEM	--	45.800106	-99.299935	West Missouri Coteau	10130106	Desktop	14.40	0.00	0.06
McPherson	NDM-106	W_9_MP_543_DT	PEM	--	45.801128	-99.301783	West Missouri Coteau	10130106	Desktop	14.52	0.00	0.08
McPherson	NDM-106	W_9_MP_541_DT	PEM	--	45.802531	-99.303866	West Missouri Coteau	10130106	Desktop	14.64	0.00	0.22
McPherson	NDM-106	W_9_MP_540_DT	PEM	--	45.802379	-99.305455	West Missouri Coteau	10130106	Desktop	14.70	0.00	0.59
McPherson	NDM-106	W_9_MP_538_DT	PEM	--	45.807295	-99.305162	West Missouri Coteau	10130106	Desktop	15.03	0.00	0.75
McPherson	NDM-106	W_9_MP_539_DT	PEM	--	45.807474	-99.302743	West Missouri Coteau	10130106	Desktop	15.11	0.00	0.05
McPherson	NDM-106	W_9_MP_075_DT	PEM	--	45.810203	-99.301373	West Missouri Coteau	10130106	Desktop	15.30	0.00	0.14
McPherson	NDM-106	W_9_MP_537_DT	PEM	--	45.810961	-99.303032	West Missouri Coteau	10130106	Desktop	15.36	0.00	0.65
McPherson	NDM-106	W_9_MP_660_DT	PEM	--	45.812594	-99.302260	West Missouri Coteau	10130106	Desktop	15.48	0.00	0.01
McPherson	NDM-106	W_9_MP_660_DT	PEM	--	45.812637	-99.301797	West Missouri Coteau	10130106	Desktop	15.49	0.00	0.01
McPherson	NDM-106	W_9_MP_073_DT	PEM	--	45.814710	-99.301425	West Missouri Coteau	10130106	Desktop	15.62	0.00	0.22
McPherson	NDM-106	W_9_MP_072_DT	PEM	--	45.816845	-99.301711	West Missouri Coteau	10130106	Desktop	15.78	0.00	0.31
McPherson	NDM-106	W_9_MP_659_DT	PEM	--	45.817929	-99.301964	West Missouri Coteau	10130106	Desktop	15.84	39.18	0.54
McPherson	NDM-106	W_9_MP_070_DT	PEM	--	45.819697	-99.301943	West Missouri Coteau	10130106	Desktop	15.97	0.00	0.22
McPherson	NDM-106	W_9_MP_069_DT	PEM	--	45.822272	-99.302198	West Missouri Coteau	10130106	Desktop	16.14	0.00	0.02
McPherson	NDM-106	W_9_MP_532_DT	PEM	--	45.824100	-99.303530	West Missouri Coteau	10130106	Desktop	16.27	0.00	0.06
McPherson	NDM-106	W_9_MP_530_DT	PEM	--	45.827461	-99.303168	West Missouri Coteau	10130106	Desktop	16.50	324.74	1.88
McPherson	NDM-106	W_9_MP_528_DT	PEM	--	45.839094	-99.325668	West Missouri Coteau	10130106	Desktop	17.99	198.93	1.07
McPherson	NDM-106	W_9_MP_527_DT	PEM	--	45.843439	-99.348643	West Missouri Coteau	10130106	Desktop	19.14	342.31	2.16
McPherson	NDM-106	W_9_MP_526_DT	PEM	--	45.844321	-99.352503	West Missouri Coteau	10130106	Desktop	19.33	352.56	1.91
McPherson	NDM-106	W_9_MP_525_DT	PEM	--	45.846224	-99.358438	West Missouri Coteau	10130106	Desktop	19.67	419.81	0.97
McPherson	NDM-106	W_9_MP_524_DT	PEM	--	45.862601	-99.376443	West Missouri Coteau	10130106	Desktop	21.18	97.49	0.36

Wetland Crossing Table												
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McPherson	NDM-106	W_9_MP_523_DT	PEM	--	45.864804	-99.377321	West Missouri Coteau	10130106	Desktop	21.33	0.00	0.02
McPherson	NDM-106	W_9_MP_868_DT	PEM	--	45.871391	-99.377060	West Missouri Coteau	10130106	Desktop	21.78	0.00	0.56
McPherson	NDM-106	W_9_MP_522_DT	PEM	--	45.872993	-99.377265	West Missouri Coteau	10130106	Desktop	21.90	0.00	0.01
McPherson	NDM-106	W_9_MP_919_DT	PEM	--	45.873175	-99.375730	West Missouri Coteau	10130106	Desktop	21.94	0.00	0.17
McPherson	NDM-106	W_10_MP_014_DT	PEM	--	45.876663	-99.374958	West Missouri Coteau	10130106	Desktop	22.20	126.76	0.74
McPherson	NDM-106	W_10_MP_015_DT	PEM	--	45.879044	-99.377307	West Missouri Coteau	10130106	Desktop	22.40	0.00	0.08
McPherson	NDM-106	W_9_MP_520_DT	PEM	--	45.884066	-99.381823	Upper Lake Oahe	10130102	Desktop	22.82	143.41	0.70
McPherson	NDM-106	W_9_MP_519_DT	PEM	--	45.894178	-99.387104	Upper Lake Oahe	10130102	Desktop	23.70	76.71	0.41
McPherson	NDM-106	W_9_MP_519_DT	PEM	--	45.895209	-99.387097	Upper Lake Oahe	10130102	Desktop	23.75	511.61	1.90
McPherson	NDM-106	W_9_MP_517_DT	PEM	--	45.902973	-99.385769	Upper Lake Oahe	10130102	Desktop	24.32	31.69	0.19
McPherson	NDM-106	W_9_MP_517_DT	PEM	--	45.903093	-99.385918	Upper Lake Oahe	10130102	Desktop	24.34	100.70	0.60
McPherson	NDM-106	W_9_MP_516_DT	PEM	--	45.906023	-99.386289	Upper Lake Oahe	10130102	Desktop	24.54	0.00	0.13
McPherson	NDM-106	W_9_MP_515_DT	PEM	--	45.907198	-99.387494	Upper Lake Oahe	10130102	Desktop	24.63	0.00	0.15
McPherson	NDM-106	W_9_MP_514_DT	PEM	--	45.909287	-99.388594	Upper Lake Oahe	10130102	Desktop	24.79	63.93	0.20
McPherson	NDM-106	W_9_MP_513_DT	PEM	--	45.909822	-99.389320	Upper Lake Oahe	10130102	Desktop	24.84	174.63	1.18
McPherson	NDM-106	W_9_MP_512_DT	PEM	--	45.911142	-99.390380	Upper Lake Oahe	10130102	Desktop	24.94	201.85	0.98
McPherson	NDM-106	W_9_MP_511_DT	PEM	--	45.913023	-99.397794	Upper Lake Oahe	10130102	Desktop	25.32	0.00	0.01
McPherson	NDM-106	W2244MP009	PEM	--	45.925849	-99.418627	Upper Lake Oahe	10130102	Survey	26.74	0.00	0.08
McPherson	NDM-106	W2009MP041	PEM	--	45.928298	-99.418991	Upper Lake Oahe	10130102	Survey	26.90	0.00	0.01
McPherson	NDM-106	W2009MP040	PEM	--	45.929116	-99.419313	Upper Lake Oahe	10130102	Survey	26.95	0.00	0.23
McPherson	NDM-106	W2002MP042	PEM	--	45.929344	-99.418601	Upper Lake Oahe	10130102	Survey	26.97	0.00	0.05
McPherson	NDM-106	W2009MP039	PEM	--	45.930149	-99.419596	Upper Lake Oahe	10130102	Survey	27.03	0.00	0.21
McPherson	NDM-106	W2009MP038	PEM	--	45.934506	-99.419999	Upper Lake Oahe	10130102	Survey	27.34	63.45	0.26
McPherson	NDM-106	W2009MP037	PEM	--	45.938534	-99.420187	Upper Lake Oahe	10130102	Survey	27.62	0.00	0.14
McPherson	NDM-106	W2002MP043	PEM	--	45.938608	-99.419454	Upper Lake Oahe	10130102	Survey	27.63	0.00	0.20
McPherson	NDM-106	W2014MP151	PEM	--	45.939925	-99.420179	Upper Lake Oahe	10130102	Survey	27.72	0.00	0.06
McPherson	NDT-211	W_11_MP_112_DT	PEM	--	45.924945	-98.724884	Elm	10160004	Desktop	91.89	0.00	0.12
McPherson	NDT-211	W_11_MP_111_DT	PEM	--	45.924028	-98.725772	Elm	10160004	Desktop	91.96	0.00	0.36
McPherson	NDT-211	W_11_MP_110_DT	PEM	--	45.922320	-98.726332	Elm	10160004	Desktop	92.09	0.00	0.48

Wetland Crossing Table												
County	Route ID	Feature ID	Feature Type	Feature Name	Latitude	Longitude	HUC 8 Watershed Name	HUC 8 Watershed No.	Survey or Desktop	Approx. MP	ESC Crossing Length (ft)	ESC Total Acres
McPherson	NDT-211	W_11_MP_109_DT	PEM	--	45.919399	-98.729051	Elm	10160004	Desktop	92.35	114.91	0.84
McPherson	NDT-211	W_11_MP_108_DT	PEM	--	45.916165	-98.735004	Elm	10160004	Desktop	92.71	192.59	0.88
McPherson	NDT-211	W_11_MP_107_DT	PEM	--	45.915117	-98.736463	Elm	10160004	Desktop	92.82	44.28	0.64
McPherson	NDT-211	W_11_MP_106_DT	PEM	--	45.914227	-98.739653	Elm	10160004	Desktop	92.95	0.00	0.07
McPherson	NDT-211	W_11_MP_105_DT	PEM	--	45.911766	-98.743680	Elm	10160004	Desktop	93.23	77.04	0.83
McPherson	NDT-211	W_11_MP_105_DT	PEM	--	45.911746	-98.744138	Elm	10160004	Desktop	93.24	34.66	0.24
McPherson	NDT-211	W_11_MP_104_DT	PEM	--	45.911558	-98.751940	Elm	10160004	Desktop	93.62	570.10	3.88
McPherson	NDT-211	W_11_MP_103_DT	PEM	--	45.911483	-98.756704	Elm	10160004	Desktop	93.86	43.21	0.70
McPherson	NDT-211	W_11_MP_102_DT	PEM	--	45.911582	-98.759715	Elm	10160004	Desktop	94.01	774.68	2.28
McPherson	NDT-211	W_11_MP_101_DT	PEM	--	45.911326	-98.766955	Elm	10160004	Desktop	94.34	36.95	0.30
McPherson	NDT-211	W_11_MP_101_DT	PEM	--	45.911502	-98.767106	Elm	10160004	Desktop	94.35	47.46	0.06
McPherson	NDT-211	W_11_MP_100_DT	PEM	--	45.911764	-98.772244	Elm	10160004	Desktop	94.61	55.53	0.42
McPherson	NDT-211	W_11_MP_098_DT	PEM	--	45.911431	-98.774216	Elm	10160004	Desktop	94.69	55.57	0.16
McPherson	NDT-211	W_11_MP_097_DT	PEM	--	45.911307	-98.774940	Elm	10160004	Desktop	94.73	40.20	0.24
McPherson	NDT-211	W_11_MP_099_DT	PEM	--	45.911575	-98.775803	Elm	10160004	Desktop	94.77	127.48	0.35
McPherson	NDT-211	W_11_MP_096_DT	PEM	--	45.911131	-98.777716	Elm	10160004	Desktop	94.87	0.00	0.02
McPherson	NDT-211	W_11_MP_095_DT	PEM	--	45.911307	-98.779103	Elm	10160004	Desktop	94.93	103.87	1.19
McPherson	NDT-211	W_11_MP_094_DT	PEM	--	45.911453	-98.780449	Elm	10160004	Desktop	95.00	75.37	0.31
McPherson	NDT-211	W_11_MP_093_DT	PEM	--	45.911245	-98.785137	Elm	10160004	Desktop	95.18	615.39	2.83
McPherson	NDT-211	W_11_MP_092_DT	PEM	--	45.910949	-98.789035	Elm	10160004	Desktop	95.41	439.59	2.89
McPherson	NDT-211	W_11_MP_087_DT	PEM	--	45.910626	-98.792847	Elm	10160004	Desktop	95.63	506.14	1.35
McPherson	NDT-211	W_11_MP_088_DT	PEM	--	45.910432	-98.793822	Elm	10160004	Desktop	95.65	0.00	0.19
McPherson	NDT-211	W_11_MP_089_DT	PEM	--	45.910548	-98.794812	Elm	10160004	Desktop	95.68	0.00	0.27
McPherson	NDT-211	W_11_MP_090_DT	PEM	--	45.910846	-98.795100	Elm	10160004	Desktop	95.72	50.99	0.16
McPherson	NDT-211	W_11_MP_091_DT	PEM	--	45.910457	-98.795128	Elm	10160004	Desktop	95.72	0.00	0.04
McPherson	NDT-211	W_11_MP_086_DT	PEM	--	45.910546	-98.796595	Elm	10160004	Desktop	95.78	0.00	0.03
McPherson	NDT-211	W_11_MP_085_DT	PEM	--	45.910757	-98.798335	Elm	10160004	Desktop	95.87	194.21	0.40
McPherson	NDT-211	W_11_MP_084_DT	PEM	--	45.910430	-98.798486	Elm	10160004	Desktop	95.88	0.00	0.13
McPherson	NDT-211	W_11_MP_083_DT	PEM	--	45.910580	-98.799529	Elm	10160004	Desktop	95.93	115.00	0.32

Wetland Crossing Table												
County	Route ID	Feature ID	Feature Type	Feature Name	Latitude	Longitude	HUC 8 Watershed Name	HUC 8 Watershed No.	Survey or Desktop	Approx. MP	ESC Crossing Length (ft)	ESC Total Acres
McPherson	NDT-211	W_11_MP_083_DT	PEM	--	45.910362	-98.799996	Elm	10160004	Desktop	95.96	0.00	0.05
McPherson	NDT-211	W_11_MP_082_DT	PEM	--	45.910587	-98.800523	Elm	10160004	Desktop	95.98	234.68	0.48
McPherson	NDT-211	W_11_MP_081_DT	PEM	--	45.910114	-98.809891	Elm	10160004	Desktop	96.43	0.00	0.27
McPherson	NDT-211	W_11_MP_079_DT	PEM	--	45.910967	-98.813154	Elm	10160004	Desktop	96.57	81.39	1.36
McPherson	NDT-211	W_11_MP_080_DT	PEM	--	45.910499	-98.814441	Elm	10160004	Desktop	96.64	0.00	0.13
McPherson	NDT-211	W_11_MP_078_DT	PEM	--	45.911555	-98.817510	Elm	10160004	Desktop	96.81	108.31	0.15
McPherson	NDT-211	W_11_MP_077_DT	PEM	--	45.911834	-98.818443	Elm	10160004	Desktop	96.89	314.68	0.37
McPherson	NDT-211	W_11_MP_076_DT	PEM	--	45.911355	-98.821708	Elm	10160004	Desktop	97.00	19.33	0.18
McPherson	NDT-211	W_11_MP_076_DT	PEM	--	45.911382	-98.821752	Elm	10160004	Desktop	97.00	19.79	0.14
McPherson	NDT-211	W_11_MP_075_DT	PEM	--	45.911457	-98.822772	Elm	10160004	Desktop	97.06	0.00	0.23
McPherson	NDT-211	W_11_MP_074_DT	PEM	--	45.911688	-98.825427	Elm	10160004	Desktop	97.20	182.24	0.62
McPherson	NDT-211	W_11_MP_073_DT	PEM	--	45.911929	-98.827269	Elm	10160004	Desktop	97.27	176.68	0.82
McPherson	NDT-211	W_11_MP_072_DT	PEM	--	45.911701	-98.829735	Elm	10160004	Desktop	97.40	231.46	0.76
McPherson	NDT-211	W_11_MP_071_DT	PEM	--	45.911005	-98.837660	Elm	10160004	Desktop	97.71	938.64	1.58
McPherson	NDT-211	W_11_MP_071_DT	PEM	--	45.910682	-98.840166	Elm	10160004	Desktop	97.91	56.25	0.64
McPherson	NDT-211	W_10_MP_070_DT	PEM	--	45.910851	-98.846887	Elm	10160004	Desktop	98.24	0.00	0.10
McPherson	NDT-211	W_10_MP_069_DT	PEM	--	45.914807	-98.861587	Elm	10160004	Desktop	99.09	83.19	1.01
McPherson	NDT-211	W_10_MP_068_DT	PEM	--	45.924454	-98.876365	Elm	10160004	Desktop	100.22	37.10	0.22
McPherson	NDT-211	W_10_MP_068_DT	PEM	--	45.924289	-98.876414	Elm	10160004	Desktop	100.22	15.13	0.12
McPherson	NDT-211	W_10_MP_067_DT	PEM	--	45.924442	-98.883659	Elm	10160004	Desktop	100.57	216.72	1.67
McPherson	NDT-211	W_10_MP_066_DT	PEM	--	45.924850	-98.895600	Elm	10160004	Desktop	101.14	30.79	0.21
McPherson	NDT-211	W_10_MP_065_DT	PEM	--	45.924608	-98.901008	Elm	10160004	Desktop	101.41	46.81	0.36
McPherson	NDT-211	W_10_MP_064_DT	PEM	--	45.924051	-98.903019	Elm	10160004	Desktop	101.52	60.14	0.50
McPherson	NDT-211	W_10_MP_063_DT	PEM	--	45.915472	-98.916449	Elm	10160004	Desktop	102.41	18.54	0.12
McPherson	NDT-211	W_10_MP_060_DT	PEM	--	45.912979	-98.921939	Elm	10160004	Desktop	102.73	44.60	0.17
McPherson	NDT-211	W_10_MP_062_DT	PFO	--	45.913290	-98.922194	Elm	10160004	Desktop	102.74	0.00	0.02
McPherson	NDT-211	W_10_MP_061_DT	PFO	--	45.913420	-98.922445	Elm	10160004	Desktop	102.74	0.00	0.01
McPherson	NDT-211	W_10_MP_059_DT	PEM	--	45.911832	-98.929294	Elm	10160004	Desktop	103.09	0.00	0.00
McPherson	NDT-211	W_10_MP_059_DT	PEM	--	45.911801	-98.929356	Elm	10160004	Desktop	103.09	0.00	0.01

Wetland Crossing Table												
County	Route ID	Feature ID	Feature Type	Feature Name	Latitude	Longitude	HUC 8 Watershed Name	HUC 8 Watershed No.	Survey or Desktop	Approx. MP	ESC Crossing Length (ft)	ESC Total Acres
McPherson	NDT-211	W_10_MP_058_DT	PEM	--	45.906828	-98.939451	Elm	10160004	Desktop	103.69	0.00	0.06
McPherson	NDT-211	W_10_MP_058_DT	PEM	--	45.906753	-98.940290	Elm	10160004	Desktop	103.72	27.96	0.20
McPherson	NDT-211	W_10_MP_057_DT	PFO	--	45.905818	-98.941989	Elm	10160004	Desktop	103.83	0.00	0.03
McPherson	NDT-211	W_10_MP_056_DT	PEM	--	45.905964	-98.942201	Elm	10160004	Desktop	103.83	54.50	0.20
McPherson	NDT-211	W_10_MP_055_DT	PEM	--	45.905072	-98.944900	Elm	10160004	Desktop	103.97	85.32	0.61
McPherson	NDT-211	W_10_MP_054_DT	PEM	--	45.903868	-98.946719	Elm	10160004	Desktop	104.10	0.00	0.21
McPherson	NDT-211	W_10_MP_053_DT	PEM	--	45.903097	-98.949495	Elm	10160004	Desktop	104.24	52.83	0.44
McPherson	NDT-211	W_10_MP_052_DT	PEM	--	45.899688	-98.950887	Elm	10160004	Desktop	104.47	98.96	0.17
McPherson	NDT-211	W_10_MP_051_DT	PEM	--	45.892346	-98.955782	Elm	10160004	Desktop	105.05	195.41	1.50
McPherson	NDT-211	W_10_MP_050_DT	PEM	--	45.890430	-98.957963	Elm	10160004	Desktop	105.20	91.73	0.11
McPherson	NDT-211	W_10_MP_049_DT	PEM	--	45.885728	-98.962026	Elm	10160004	Desktop	105.58	0.00	0.07
McPherson	NDT-211	W_10_MP_048_DT	PEM	--	45.883169	-98.965431	Elm	10160004	Desktop	105.83	0.00	0.25
McPherson	NDT-211	W_10_MP_047_DT	PEM	--	45.881227	-98.967019	Elm	10160004	Desktop	105.98	0.00	0.10
McPherson	NDT-211	W_10_MP_046_DT	PEM	--	45.867509	-98.976591	Elm	10160004	Desktop	107.08	228.05	0.86
McPherson	NDT-211	W_10_MP_045_DT	PEM	--	45.861578	-98.978910	Elm	10160004	Desktop	107.50	9.61	0.12
McPherson	NDT-211	W_10_MP_045_DT	PEM	--	45.861548	-98.978959	Elm	10160004	Desktop	107.50	8.34	0.10
McPherson	NDT-211	W_10_MP_044_DT	PEM	--	45.855423	-98.981804	Elm	10160004	Desktop	107.96	155.28	0.93
McPherson	NDT-211	W_10_MP_043_DT	PEM	--	45.854187	-98.981426	Elm	10160004	Desktop	108.03	0.00	0.07
McPherson	NDT-211	W_10_MP_042_DT	PEM	--	45.853931	-98.982046	Elm	10160004	Desktop	108.05	30.30	0.02
McPherson	NDT-211	W_10_MP_041_DT	PEM	--	45.852662	-98.981827	Elm	10160004	Desktop	108.13	0.00	0.20
McPherson	NDT-211	W_10_MP_039_DT	PEM	--	45.851203	-98.983284	Elm	10160004	Desktop	108.24	0.00	0.17
McPherson	NDT-211	W_10_MP_040_DT	PEM	--	45.850763	-98.982510	Elm	10160004	Desktop	108.27	0.00	0.04
McPherson	NDT-211	W_10_MP_038_DT	PEM	--	45.849194	-98.983995	Elm	10160004	Desktop	108.39	20.00	0.18
McPherson	NDT-211	W_10_MP_037_DT	PEM	--	45.847513	-98.984669	Elm	10160004	Desktop	108.52	100.88	0.82
McPherson	NDT-211	W_10_MP_036_DT	PEM	--	45.846268	-98.984861	Elm	10160004	Desktop	108.60	170.17	0.54
McPherson	NDT-211	W_10_MP_035_DT	PEM	--	45.842642	-98.986061	Elm	10160004	Desktop	108.85	30.43	0.16
McPherson	NDT-211	W_10_MP_035_DT	PEM	--	45.842531	-98.986071	Elm	10160004	Desktop	108.85	10.86	0.08
McPherson	NDT-211	W_10_MP_034_DT	PEM	--	45.839786	-98.989159	Elm	10160004	Desktop	109.10	0.00	0.04
McPherson	NDT-211	W_10_MP_033_DT	PEM	--	45.834218	-98.991098	Elm	10160004	Desktop	109.52	0.00	0.07

Wetland Crossing Table												
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McPherson	NDT-211	W_10_MP_032_DT	PEM	--	45.833399	-98.991257	Elm	10160004	Desktop	109.59	0.00	0.31
McPherson	NDT-211	W_10_MP_031_DT	PEM	--	45.831345	-98.992284	Elm	10160004	Desktop	109.73	130.35	0.97
McPherson	NDT-211	W_10_MP_029_DT	PEM	--	45.823925	-98.999034	Elm	10160004	Desktop	110.34	0.00	0.17
McPherson	NDT-211	W_11_MP_116_DT	PEM	--	45.823470	-99.000552	Elm	10160004	Desktop	110.42	23.72	0.29
McPherson	NDT-211	W_11_MP_117_DT	PEM	--	45.821137	-99.000832	Elm	10160004	Desktop	110.57	259.83	1.30
McPherson	NDT-211	W_11_MP_118_DT	PEM	--	45.818514	-99.000571	Elm	10160004	Desktop	110.74	0.00	0.61
McPherson	NDT-211	W_11_MP_119_DT	PEM	--	45.817183	-99.001155	Elm	10160004	Desktop	110.84	85.62	0.23
McPherson	NDT-211	W_11_MP_120_DT	PEM	--	45.814291	-99.001271	Elm	10160004	Desktop	111.04	144.24	0.61
McPherson	NDT-211	W_11_MP_122_DT	PEM	--	45.813440	-99.001228	Elm	10160004	Desktop	111.10	8.65	0.04
McPherson	NDT-211	W_11_MP_121_DT	PEM	--	45.813191	-99.001303	Elm	10160004	Desktop	111.12	0.00	0.07
McPherson	NDT-211	W_11_MP_124_DT	PEM	--	45.802510	-98.996140	Elm	10160004	Desktop	111.93	0.00	0.31
McPherson	NDT-211	W_11_MP_125_DT	PEM	--	45.800809	-98.994916	Elm	10160004	Desktop	112.06	0.00	0.09
McPherson	NDT-211	W_10_MP_019_DT	PEM	--	45.782188	-98.980460	Elm	10160004	Desktop	113.53	219.15	0.57
McPherson	NDT-211	W_10_MP_017_DT	PEM	--	45.777400	-98.984335	Upper James	10160003	Desktop	113.94	0.00	0.07
McPherson	NDT-211	W_10_MP_018_DT	PEM	--	45.776859	-98.986594	Upper James	10160003	Desktop	114.05	0.00	0.01
McPherson	NDT-211	W_10_MP_016_DT	PEM	--	45.775786	-98.987954	Upper James	10160003	Desktop	114.15	0.00	0.10
McPherson	NDT-211	W_9_MP_615_DT	PEM	--	45.772121	-98.990466	Upper James	10160003	Desktop	114.43	58.80	0.55
McPherson	NDT-211	W_9_MP_615_DT	PEM	--	45.771753	-98.990600	Upper James	10160003	Desktop	114.45	138.31	0.84
McPherson	NDT-211	W2022MP005	PEM	--	45.764047	-98.995008	Upper James	10160003	Survey	115.02	0.00	0.17
McPherson	NDT-211	W2022MP004	PEM	--	45.763292	-98.996692	Upper James	10160003	Survey	115.12	52.76	0.04
McPherson	NDT-211	W2022MP003	PEM	--	45.761423	-98.999886	Upper James	10160003	Survey	115.31	0.00	0.17
McPherson	NDT-211	W2022MP002	PEM	--	45.759769	-99.001019	Upper James	10160003	Survey	115.44	0.00	0.04
McPherson	NDT-211	W2022MP001	PEM	--	45.759313	-99.001847	Upper James	10160003	Survey	115.49	37.50	0.17
McPherson	NDT-211	W2022MP006	PEM	--	45.758568	-99.003629	Upper James	10160003	Survey	115.59	0.00	0.03
McPherson	NDT-211	W2014MP082	PEM	--	45.757275	-99.004736	Upper James	10160003	Survey	115.69	38.87	0.09
McPherson	NDT-211	W2014MP081	PEM	--	45.756759	-99.004869	Upper James	10160003	Survey	115.72	0.00	0.11
McPherson	NDT-211	W2014MP080	PEM	--	45.755935	-99.006423	Upper James	10160003	Survey	115.81	24.72	0.16
McPherson	NDT-211	W2014MP079	PEM	--	45.755454	-99.006695	Upper James	10160003	Survey	115.85	0.00	0.16
McPherson	NDT-211	W2004MP125	PEM	--	45.750438	-99.014346	Upper James	10160003	Survey	116.36	0.00	0.02

Wetland Crossing Table												
County	Route ID	Feature ID	Feature Type	Feature Name	Latitude	Longitude	HUC 8 Watershed Name	HUC 8 Watershed No.	Survey or Desktop	Approx. MP	ESC Crossing Length (ft)	ESC Total Acres
McPherson	NDT-211	W3919MP332	PEM	--	45.749549	-99.015652	Upper James	10160003	Survey	116.47	0.00	0.08
McPherson	NDT-211	W3919MP330	PEM	--	45.748134	-99.016915	Upper James	10160003	Survey	116.57	0.00	0.01
McPherson	NDT-211	W_9_MP_614_DT	PEM	--	45.747909	-99.016544	Upper James	10160003	Desktop	116.58	84.49	0.51
McPherson	NDT-211	W_10_MP_030_DT	PEM	--	45.745561	-99.016913	Upper James	10160003	Desktop	116.74	0.00	0.17
McPherson	NDT-211	W_10_MP_010_DT	PEM	--	45.739201	-99.022707	Upper James	10160003	Desktop	117.24	1.92	0.12
McPherson	NDT-211	W_10_MP_009_DT	PEM	--	45.738952	-99.023082	Upper James	10160003	Desktop	117.27	0.00	0.03
McPherson	NDT-211	W_10_MP_008_DT	PEM	--	45.737366	-99.024629	Upper James	10160003	Desktop	117.43	0.00	0.09
McPherson	NDT-211	W_10_MP_007_DT	PEM	--	45.737089	-99.024714	Upper James	10160003	Desktop	117.44	26.81	0.32
McPherson	NDT-211	W_10_MP_006_DT	PEM	--	45.736406	-99.029502	Upper James	10160003	Desktop	117.69	0.00	0.01
McPherson	NDT-211	W_10_MP_005_DT	PEM	--	45.736250	-99.031493	Snake	10160008	Desktop	117.78	0.00	0.12
McPherson	NDT-211	W_10_MP_004_DT	PEM	--	45.735475	-99.035408	Snake	10160008	Desktop	117.98	0.00	0.03
McPherson	NDT-211	W_10_MP_003_DT	PEM	--	45.734864	-99.036156	Snake	10160008	Desktop	118.04	0.00	0.01
McPherson	NDT-211	W_9_MP_607_DT	PEM	--	45.732979	-99.041333	Snake	10160008	Desktop	118.31	0.00	0.10
McPherson	NDT-211	W_10_MP_002_DT	PEM	--	45.731526	-99.045287	Snake	10160008	Desktop	118.55	42.07	0.25
McPherson	NDT-211	W_9_MP_606_DT	PEM	--	45.728933	-99.063542	Snake	10160008	Desktop	119.44	0.00	0.08
McPherson	NDT-211	W_9_MP_605_DT	PEM	--	45.727801	-99.065374	Snake	10160008	Desktop	119.55	0.00	0.41
McPherson	NDT-211	W_9_MP_604_DT	PEM	--	45.728148	-99.067610	Snake	10160008	Desktop	119.65	0.00	0.48
McPherson	NDT-211	W_9_MP_603_DT	PEM	--	45.727611	-99.068750	Snake	10160008	Desktop	119.71	8.10	0.43
McPherson	NDT-211	W_9_MP_602_DT	PEM	--	45.727424	-99.071023	Snake	10160008	Desktop	119.84	178.52	1.24
McPherson	NDT-211	W_9_MP_601_DT	PEM	--	45.727036	-99.073194	Snake	10160008	Desktop	119.93	0.00	0.05
McPherson	NDT-211	W_9_MP_600_DT	PEM	--	45.726451	-99.073272	Snake	10160008	Desktop	119.96	134.36	0.35
McPherson	NDT-211	W_9_MP_599_DT	PEM	--	45.726068	-99.074094	Snake	10160008	Desktop	120.01	154.05	1.09
McPherson	SDM-105	W_2_MP_161_DT	PEM	--	45.618991	-98.946060	Snake	10160008	Desktop	103.32	0.00	0.01
McPherson	SDM-105	W2014MP143	PEM	--	45.634452	-98.951685	Snake	10160008	Survey	104.43	0.00	0.09
McPherson	SDM-105	W3919MP054	PEM	--	45.635786	-98.952460	Snake	10160008	Survey	104.54	0.00	0.03
McPherson	SDM-105	W_2_MP_436_DT	PEM	--	45.635901	-98.952437	Snake	10160008	Desktop	104.56	0.00	0.08
McPherson	SDM-105	W2014MP141	PEM	--	45.635989	-98.952507	Snake	10160008	Survey	104.57	0.00	0.02
McPherson	SDM-105	W_9_MP_664_DT	PEM	--	45.635983	-98.953723	Snake	10160008	Desktop	104.60	0.00	0.00
McPherson	SDM-105	W2014MP142	PEM	--	45.636120	-98.953626	Snake	10160008	Survey	104.60	0.00	0.12

Wetland Crossing Table												
County	Route ID	Feature ID	Feature Type	Feature Name	Latitude	Longitude	HUC 8 Watershed Name	HUC 8 Watershed No.	Survey or Desktop	Approx. MP	ESC Crossing Length (ft)	ESC Total Acres
McPherson	SDM-105	W_9_MP_632_DT	PEM	--	45.649520	-98.974423	Snake	10160008	Desktop	105.98	0.00	0.13
McPherson	SDM-105	W2023MP164	PEM	--	45.650236	-98.973661	Snake	10160008	Survey	106.01	22.82	0.08
McPherson	SDM-105	W_9_MP_631_DT	PEM	--	45.650401	-98.974485	Snake	10160008	Desktop	106.02	0.00	0.03
McPherson	SDM-105	W2001MP198	PEM	--	45.650448	-98.973860	Snake	10160008	Survey	106.02	79.16	0.30
McPherson	SDM-105	W2001MP199	PEM	--	45.651154	-98.973669	Snake	10160008	Survey	106.07	0.00	0.24
McPherson	SDM-105	W2001MP200	PEM	--	45.652366	-98.974464	Snake	10160008	Survey	106.16	0.00	0.41
McPherson	SDM-105	W2001MP201	PEM	--	45.652790	-98.975622	Snake	10160008	Survey	106.21	0.00	0.07
McPherson	SDM-105	W2001MP202	PEM	--	45.653672	-98.975792	Snake	10160008	Survey	106.26	0.00	0.14
McPherson	SDM-105	W2001MP203	PEM	--	45.655716	-98.977110	Snake	10160008	Survey	106.42	29.35	0.35
McPherson	SDM-105	W2244MP050	PEM	--	45.658633	-98.978464	Snake	10160008	Survey	106.63	95.16	0.63
McPherson	SDM-105	W2001MP204	PEM	--	45.666248	-98.981785	Snake	10160008	Survey	107.19	0.00	0.16
McPherson	SDM-105	W2001MP205	PEM	--	45.668368	-98.983162	Snake	10160008	Survey	107.34	0.00	0.35
McPherson	SDM-105	W_9_MP_800_DT	PEM	--	45.671421	-98.983846	Snake	10160008	Desktop	107.54	0.00	0.18
McPherson	SDM-105	W2001MP206	PEM	--	45.671375	-98.983251	Snake	10160008	Survey	107.55	46.59	0.28
McPherson	SDM-105	W2023MP125	PEM	--	45.672259	-98.983835	Snake	10160008	Survey	107.63	0.00	0.23
McPherson	SDM-105	W2001MP153	PEM	--	45.681592	-98.997136	Snake	10160008	Survey	108.56	103.30	1.01
McPherson	SDM-105	W2001MP036	PEM	--	45.685666	-99.002590	Snake	10160008	Survey	108.93	154.47	1.06
McPherson	SDM-105	W2014MP075	PEM	--	45.688909	-99.008385	Snake	10160008	Survey	109.32	0.00	0.59
McPherson	SDM-105	W2002MP022	PEM	--	45.695457	-99.015776	Snake	10160008	Survey	109.92	0.00	0.00
McPherson	SDM-105	W3919MP016	PEM	--	45.700876	-99.020982	Snake	10160008	Survey	110.40	111.84	0.58
McPherson	SDM-105	W2244MP044	PEM	--	45.708596	-99.029054	Snake	10160008	Survey	111.06	111.49	0.71
McPherson	SDM-105	W_12_MP_010_DT	PEM	--	45.708858	-99.028861	Snake	10160008	Desktop	111.07	0.00	0.47
McPherson	SDM-105	W22440MP46	PEM	--	45.709552	-99.030812	Snake	10160008	Survey	111.17	65.97	0.28
McPherson	SDM-105	W_12_MP_004_DT	PEM	--	45.710158	-99.030426	Snake	10160008	Desktop	111.18	0.00	0.14
McPherson	SDM-105	W2244MP047	PEM	--	45.710157	-99.030624	Snake	10160008	Survey	111.19	0.00	0.06
McPherson	SDM-105	W2244MP048	PEM	--	45.710181	-99.031366	Snake	10160008	Survey	111.22	112.38	0.29
McPherson	SDM-105	W_9_MP_630_DT	PEM	--	45.713814	-99.041034	Snake	10160008	Desktop	111.77	164.96	0.89
McPherson	SDM-105	W2001MP016	PEM	--	45.714170	-99.040802	Snake	10160008	Survey	111.77	0.00	0.27
McPherson	SDM-105	W_9_MP_629_DT	PEM	--	45.714241	-99.041925	Snake	10160008	Desktop	111.81	118.77	0.69

Wetland Crossing Table												
County	Route ID	Feature ID	Feature Type	Feature Name	Latitude	Longitude	HUC 8 Watershed Name	HUC 8 Watershed No.	Survey or Desktop	Approx. MP	ESC Crossing Length (ft)	ESC Total Acres
McPherson	SDM-105	W_9_MP_727_DT	PEM	--	45.714942	-99.042442	Snake	10160008	Desktop	111.86	0.00	0.07
McPherson	SDM-105	W_9_MP_627_DT	PEM	--	45.714819	-99.043189	Snake	10160008	Desktop	111.88	174.67	0.94
McPherson	SDM-105	W_9_MP_626_DT	PEM	--	45.715769	-99.045388	Snake	10160008	Desktop	112.01	30.23	0.27
McPherson	SDM-105	W_9_MP_625_DT	PEM	--	45.716233	-99.047817	Snake	10160008	Desktop	112.13	0.00	0.01
McPherson	SDM-105	W_9_MP_624_DT	PEM	--	45.717074	-99.047601	Snake	10160008	Desktop	112.15	0.00	0.00
McPherson	SDM-105	W_9_MP_623_DT	PEM	--	45.716695	-99.048833	Snake	10160008	Desktop	112.19	0.00	0.11
McPherson	SDM-105	W_9_MP_622_DT	PEM	--	45.717696	-99.049582	Snake	10160008	Desktop	112.26	0.00	0.34
McPherson	SDM-105	W_9_MP_621_DT	PEM	--	45.718514	-99.051332	Snake	10160008	Desktop	112.35	0.00	0.05
McPherson	SDM-105	W_9_MP_620_DT	PEM	--	45.720243	-99.056037	Snake	10160008	Desktop	112.61	0.00	0.10
McPherson	SDM-105	W_9_MP_618_DT	PEM	--	45.720667	-99.057939	Snake	10160008	Desktop	112.70	0.00	0.06
McPherson	SDM-105	W_9_MP_618_DT	PEM	--	45.720690	-99.058187	Snake	10160008	Desktop	112.71	0.00	0.04
McPherson	SDM-105	W_9_MP_617_DT	PEM	--	45.722205	-99.072994	Snake	10160008	Desktop	113.44	0.00	0.11
McPherson	SDM-105	W_9_MP_616_DT	PEM	--	45.723930	-99.076389	Snake	10160008	Desktop	113.69	98.19	0.56
McPherson	SDT-210	W3919BR073	PEM	--	45.436727	-98.592772	Snake	10160008	Survey	3.61	0.00	0.00
McPherson	SDT-210	W3919BR073	PEM	--	45.436806	-98.592892	Snake	10160008	Survey	3.62	0.00	0.00
McPherson	SDT-210	W3919BR073	PEM	--	45.436913	-98.593717	Snake	10160008	Survey	3.70	444.19	0.82
McPherson	SDT-210	W3919BR073	PEM	--	45.437268	-98.597640	Snake	10160008	Survey	3.84	179.21	1.00
Miner	SDL-513	W_10_LA_005	PEM	--	44.141645	-96.903232	Middle Big Sioux Coteau	10170202	Desktop	19.69	0.00	0.50
Miner	SDM-104	W2023MI180	PEM	--	44.054543	-97.390201	Vermillion	10170102	Survey	104.47	15.92	0.10
Miner	SDM-104	W2002MN078	PEM	--	44.059906	-97.398589	Vermillion	10170102	Survey	105.05	0.00	0.77
Miner	SDM-104	W2002MN077	PEM	--	44.065971	-97.407304	Vermillion	10170102	Survey	105.65	11.50	0.63
Miner	SDM-104	W2006MI125	PEM	--	44.094833	-97.443512	Vermillion	10170102	Survey	108.44	0.00	0.10
Miner	SDM-104	W2006MI126	PEM	--	44.095059	-97.443437	Vermillion	10170102	Survey	108.48	5.99	0.09
Miner	SDM-104	W2015MI012	PEM	--	44.100993	-97.468759	Vermillion	10170102	Survey	109.80	37.79	0.44
Miner	SDM-104	W2015MI013_PEM	PEM	--	44.102759	-97.472069	Vermillion	10170102	Survey	110.04	233.07	1.54
Miner	SDM-104	W2023MI036	PEM	--	44.104696	-97.473164	Vermillion	10170102	Survey	110.18	0.00	0.18
Miner	SDM-104	W2023MI037_PEM	PEM	--	44.105093	-97.474498	Vermillion	10170102	Survey	110.24	0.00	0.19
Miner	SDM-104	W2023MI037_PSS	PSS	--	44.105648	-97.474659	Vermillion	10170102	Survey	110.28	221.42	0.89
Miner	SDM-104	W2023MI037_PEM_B	PEM	--	44.106258	-97.475465	Vermillion	10170102	Survey	110.34	434.91	1.95

Wetland Crossing Table												
County	Route ID	Feature ID	Feature Type	Feature Name	Latitude	Longitude	HUC 8 Watershed Name	HUC 8 Watershed No.	Survey or Desktop	Approx. MP	ESC Crossing Length (ft)	ESC Total Acres
Miner	SDM-104	W2020MI024	PEM	--	44.108837	-97.483842	Vermillion	10170102	Survey	110.82	0.00	0.05
Miner	SDM-104	W_9_MR_987_DT	PEM	--	44.110358	-97.485925	Vermillion	10170102	Desktop	110.97	0.00	0.00
Miner	SDM-104	W2020MI023	PEM	--	44.110151	-97.486739	Vermillion	10170102	Survey	111.00	261.26	1.36
Miner	SDM-104	W2020MI022	PEM	--	44.110677	-97.488498	Vermillion	10170102	Survey	111.09	63.49	0.29
Miner	SDM-104	W2010MI064	PEM	--	44.110381	-97.490199	Vermillion	10170102	Survey	111.18	0.00	0.00
Miner	SDM-104	W2010MI064	PEM	--	44.110451	-97.490339	Vermillion	10170102	Survey	111.19	0.00	0.02
Miner	SDM-104	W2010MI065	PEM	--	44.110450	-97.490726	Vermillion	10170102	Survey	111.20	0.00	0.16
Miner	SDM-104	W2010MI066	PEM	--	44.111853	-97.494579	Vermillion	10170102	Survey	111.42	0.00	0.19
Miner	SDM-104	W2010MI067	PEM	--	44.113700	-97.499348	Vermillion	10170102	Survey	111.69	67.13	0.82
Miner	SDM-104	W2014MI033	PEM	--	44.117609	-97.505095	Vermillion	10170102	Survey	112.09	0.00	0.07
Miner	SDM-104	W2014MI034	PEM	--	44.119708	-97.510405	Vermillion	10170102	Survey	112.40	0.00	0.13
Miner	SDM-104	W2014MI031	PEM	--	44.122436	-97.518894	Vermillion	10170102	Survey	112.86	84.38	0.20
Miner	SDM-104	W2014MI031	PEM	--	44.122543	-97.518872	Vermillion	10170102	Survey	112.88	12.47	0.32
Miner	SDM-104	W2014MI032	PEM	--	44.122575	-97.519979	Vermillion	10170102	Survey	112.90	0.00	0.06
Miner	SDM-104	W2014MI030	PEM	--	44.123908	-97.522854	Vermillion	10170102	Survey	113.08	18.53	0.24
Miner	SDM-104	W_9_MR_089_DT	PEM	--	44.127412	-97.527258	Vermillion	10170102	Desktop	113.44	0.00	0.20
Miner	SDM-104	W_9_MR_089_DT	PEM	--	44.128026	-97.527722	Vermillion	10170102	Desktop	113.50	0.00	0.02
Miner	SDM-104	W_9_MR_088_DT	PEM	--	44.129448	-97.529230	Vermillion	10170102	Desktop	113.61	22.82	0.11
Miner	SDM-104	W2020MI021	PEM	--	44.129179	-97.529933	Vermillion	10170102	Survey	113.62	0.00	0.35
Miner	SDM-104	W_9_MR_088_DT	PEM	--	44.129624	-97.529520	Vermillion	10170102	Desktop	113.63	0.00	0.09
Miner	SDM-104	W2015MI019	PEM	--	44.131706	-97.532742	Vermillion	10170102	Survey	113.86	0.00	0.13
Miner	SDM-104	W2023MI110	PEM	--	44.146989	-97.541647	Vermillion	10170102	Survey	115.08	0.00	0.53
Miner	SDM-104	W2023MI111	PEM	--	44.148713	-97.541475	Vermillion	10170102	Survey	115.19	0.00	0.07
Miner	SDM-104	W2023MI112	PEM	--	44.165570	-97.549939	Vermillion	10170102	Survey	116.52	0.00	0.31
Miner	SDM-104	W2023MI113	PEM	--	44.167354	-97.550502	Vermillion	10170102	Survey	116.65	252.34	1.49
Miner	SDM-104	W2023MI114	PEM	--	44.171259	-97.550592	Vermillion	10170102	Survey	116.92	54.71	0.08
Miner	SDM-104	W_2_MI_002_DT	PEM	--	44.188711	-97.551060	Vermillion	10170102	Desktop	118.11	0.00	0.02
Miner	SDM-104	W2015MI020	PEM	--	44.190732	-97.551036	Vermillion	10170102	Survey	118.27	0.00	0.00
Miner	SDM-104	W2015MI020	PEM	--	44.191294	-97.550972	Vermillion	10170102	Survey	118.31	74.30	0.45

Wetland Crossing Table												
County	Route ID	Feature ID	Feature Type	Feature Name	Latitude	Longitude	HUC 8 Watershed Name	HUC 8 Watershed No.	Survey or Desktop	Approx. MP	ESC Crossing Length (ft)	ESC Total Acres
Miner	SDM-104	W2005MI122	PEM	--	44.190961	-97.551761	Vermillion	10170102	Survey	118.34	0.00	0.11
Miner	SDM-104	W2005MI123	PEM	--	44.192864	-97.552324	Vermillion	10170102	Survey	118.47	93.15	0.82
Miner	SDM-104	W2005MI124	PEM	--	44.193866	-97.552429	Vermillion	10170102	Survey	118.52	28.65	0.52
Miner	SDT-410	W_10_MR_043_DT	PEM	--	44.000363	-97.847416	Lower James	10160011	Desktop	22.03	377.93	1.68
Miner	SDT-410	W_10_MR_044_DT	PEM	--	44.001006	-97.845152	Lower James	10160011	Desktop	22.14	0.00	0.31
Miner	SDT-410	W_10_MR_045_DT	PEM	--	44.000648	-97.844503	Lower James	10160011	Desktop	22.16	0.00	0.28
Miner	SDT-410	W_10_MR_045_DT	PEM	--	44.000870	-97.843219	Lower James	10160011	Desktop	22.23	0.00	0.25
Miner	SDT-410	W_10_MR_046_DT	PEM	--	44.001709	-97.842442	Lower James	10160011	Desktop	22.28	0.00	0.28
Miner	SDT-410	W_10_MR_002_DT	PEM	--	44.001787	-97.841037	Lower James	10160011	Desktop	22.35	102.36	0.36
Miner	SDT-410	W_9_MR_081_DT	PEM	--	44.001599	-97.839610	Lower James	10160011	Desktop	22.42	0.00	0.11
Miner	SDT-410	W_10_MR_003_DT	PEM	--	44.002271	-97.839394	Lower James	10160011	Desktop	22.44	0.00	0.42
Miner	SDT-410	W_9_MR_081_DT	PEM	--	44.002466	-97.837794	Lower James	10160011	Desktop	22.52	278.04	1.60
Miner	SDT-410	W_9_MR_080_DT	PEM	--	44.003739	-97.834904	Lower James	10160011	Desktop	22.70	449.19	3.14
Miner	SDT-410	W_9_MR_863_DT	PEM	--	44.005026	-97.831270	Lower James	10160011	Desktop	22.90	0.00	0.11
Miner	SDT-410	W_10_MR_060_DT	PEM	--	44.005812	-97.828425	Lower James	10160011	Desktop	23.05	184.43	0.78
Miner	SDT-410	W_10_MR_959_DT	PEM	--	44.005881	-97.826456	Lower James	10160011	Desktop	23.15	41.95	0.36
Miner	SDT-410	W_10_MR_058_DT	PEM	--	44.007428	-97.823062	Lower James	10160011	Desktop	23.36	21.49	0.18
Miner	SDT-410	W_10_MR_057_DT	PEM	--	44.011540	-97.822240	Lower James	10160011	Desktop	23.74	786.68	1.54
Miner	SDT-410	W_10_MR_056_DT	PEM	--	44.014832	-97.822171	Lower James	10160011	Desktop	23.88	23.02	0.24
Miner	SDT-410	W_10_MR_055_DT	PEM	--	44.016351	-97.821796	Lower James	10160011	Desktop	23.98	107.88	0.42
Miner	SDT-410	W_10_MR_054_DT	PEM	--	44.017127	-97.821322	Lower James	10160011	Desktop	24.04	0.00	0.19
Miner	SDT-410	W_10_MR_053_DT	PEM	--	44.017730	-97.820325	Lower James	10160011	Desktop	24.11	56.42	0.09
Miner	SDT-410	W_10_MR_052_DT	PEM	--	44.018636	-97.819195	Lower James	10160011	Desktop	24.20	0.00	0.73
Miner	SDT-410	W_10_MR_051_DT	PEM	--	44.019666	-97.818725	Lower James	10160011	Desktop	24.26	43.21	0.25
Miner	SDT-410	W_10_MR_051_DT	PEM	--	44.019856	-97.818634	Lower James	10160011	Desktop	24.27	53.13	0.41
Miner	SDT-410	W_10_MR_050_DT	PEM	--	44.020452	-97.818295	Lower James	10160011	Desktop	24.31	145.17	0.50
Miner	SDT-410	W_10_MR_051_DT	PEM	--	44.021749	-97.817743	Lower James	10160011	Desktop	24.42	0.00	0.09
Miner	SDT-410	W_10_MR_049_DT	PEM	--	44.022170	-97.816419	Lower James	10160011	Desktop	24.46	0.00	0.02
Miner	SDT-410	W_10_MR_049_DT	PEM	--	44.022618	-97.816320	Lower James	10160011	Desktop	24.50	0.00	0.30

Wetland Crossing Table												
County	Route ID	Feature ID	Feature Type	Feature Name	Latitude	Longitude	HUC 8 Watershed Name	HUC 8 Watershed No.	Survey or Desktop	Approx. MP	ESC Crossing Length (ft)	ESC Total Acres
Miner	SDT-410	W_9_MR_069_DT	PEM	--	44.026248	-97.810098	Lower James	10160011	Desktop	24.95	105.79	0.96
Miner	SDT-410	W_9_MR_068_DT	PEM	--	44.027332	-97.806781	Lower James	10160011	Desktop	25.11	47.95	0.66
Miner	SDT-410	W_9_MR_968_DT	PEM	--	44.028518	-97.805995	Lower James	10160011	Desktop	25.20	0.00	0.65
Miner	SDT-410	W_9_MR_066_DT	PEM	--	44.028305	-97.792612	Lower James	10160011	Desktop	25.88	107.52	0.53
Miner	SDT-410	W_9_MR_856_DT	PEM	--	44.028593	-97.790627	Lower James	10160011	Desktop	25.96	0.00	0.16
Miner	SDT-410	W_9_MR_064_DT	PEM	--	44.028844	-97.787434	Lower James	10160011	Desktop	26.17	236.86	1.30
Miner	SDT-410	W_9_MR_064_DT	PEM	--	44.028868	-97.786871	Lower James	10160011	Desktop	26.20	32.38	0.93
Miner	SDT-410	W_10_MR_004_DT	PEM	--	44.030137	-97.780977	Lower James	10160011	Desktop	26.47	295.58	0.97
Miner	SDT-410	W_10_MR_005_DT	PEM	--	44.031146	-97.778825	Lower James	10160011	Desktop	26.59	0.00	0.25
Miner	SDT-410	W_10_MR_006_DT	PEM	--	44.031220	-97.776340	Lower James	10160011	Desktop	26.72	125.87	0.46
Miner	SDT-410	W_10_MR_007_DT	PEM	--	44.031831	-97.775947	Lower James	10160011	Desktop	26.75	0.00	0.16
Miner	SDT-410	W_10_MR_008_DT	PEM	--	44.031805	-97.774515	Lower James	10160011	Desktop	26.82	188.86	1.23
Miner	SDT-410	W_10_MR_009_DT	PEM	--	44.032838	-97.771420	Lower James	10160011	Desktop	26.98	0.00	0.05
Miner	SDT-410	W_10_MR_010_DT	PEM	--	44.032756	-97.768896	Lower James	10160011	Desktop	27.10	0.00	0.11
Miner	SDT-410	W_10_MR_011_DT	PEM	--	44.032883	-97.766829	Lower James	10160011	Desktop	27.20	0.00	0.07
Miner	SDT-410	W_10_MR_012_DT	PEM	--	44.032137	-97.764088	Lower James	10160011	Desktop	27.33	40.14	1.53
Miner	SDT-410	W_10_MR_013_DT	PEM	--	44.032650	-97.761893	Lower James	10160011	Desktop	27.46	135.74	1.39
Miner	SDT-410	W_10_MR_955_DT	PEM	--	44.032240	-97.754172	Lower James	10160011	Desktop	27.84	272.89	1.15
Miner	SDT-410	W_10_MR_956_DT	PEM	--	44.032459	-97.751909	Lower James	10160011	Desktop	27.96	0.00	0.40
Miner	SDT-410	W_10_MR_957_DT	PEM	--	44.031907	-97.747671	Lower James	10160011	Desktop	28.12	0.00	0.86
Miner	SDT-410	W_10_MR_958_DT	PEM	--	44.032605	-97.746880	Lower James	10160011	Desktop	28.20	0.00	0.21
Miner	SDT-410	W_10_MR_059_DT	PEM	--	44.032534	-97.745482	Lower James	10160011	Desktop	28.27	0.00	0.45
Miner	SDT-410	W_10_MR_960_DT	PEM	--	44.032545	-97.741771	Lower James	10160011	Desktop	28.46	878.93	4.66
Miner	SDT-410	W_10_MR_061_DT	PEM	--	44.033159	-97.739218	Lower James	10160011	Desktop	28.59	0.00	0.15
Miner	SDT-410	W_10_MR_019_DT	PEM	--	44.035027	-97.738911	Lower James	10160011	Desktop	28.72	0.00	0.02
Miner	SDT-410	W_9_MR_860_DT	PEM	--	44.036705	-97.736508	Lower James	10160011	Desktop	28.87	21.60	0.41
Miner	SDT-410	W_9_MR_860_DT	PEM	--	44.037064	-97.735547	Lower James	10160011	Desktop	28.96	0.00	0.01
Miner	SDT-410	W_9_MR_860_DT	PEM	--	44.037592	-97.733484	Lower James	10160011	Desktop	29.05	456.23	1.83
Miner	SDT-410	W_9_MR_861_DT	PEM	--	44.037127	-97.732712	Lower James	10160011	Desktop	29.10	0.00	0.01

Wetland Crossing Table												
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Miner	SDT-410	W_9_MR_077_DT	PEM	--	44.037258	-97.731862	Lower James	10160011	Desktop	29.19	0.00	0.61
Miner	SDT-410	W_9_MR_867_DT	PEM	--	44.037600	-97.729407	Lower James	10160011	Desktop	29.26	0.00	0.35
Miner	SDT-410	W_9_MR_079_DT	PEM	--	44.039044	-97.728172	Lower James	10160011	Desktop	29.38	34.79	0.50
Miner	SDT-410	W_9_MR_079_DT	PEM	--	44.039165	-97.727964	Lower James	10160011	Desktop	29.39	31.41	0.33
Miner	SDT-410	W_9_MR_864_DT	PEM	--	44.041528	-97.724393	Lower James	10160011	Desktop	29.63	206.04	0.56
Miner	SDT-410	W_9_MR_051_DT	PEM	--	44.043939	-97.721020	Lower James	10160011	Desktop	29.86	26.64	0.14
Miner	SDT-410	W_9_MR_050_DT	PEM	--	44.044719	-97.720541	Lower James	10160011	Desktop	29.92	0.00	0.04
Miner	SDT-410	W_9_MR_051_DT	PEM	--	44.044345	-97.719970	Lower James	10160011	Desktop	29.92	0.00	0.05
Miner	SDT-410	W_9_MR_050_DT	PEM	--	44.044787	-97.720547	Lower James	10160011	Desktop	29.93	0.00	0.05
Miner	SDT-410	W_9_MR_051_DT	PEM	--	44.044801	-97.719344	Lower James	10160011	Desktop	29.97	0.00	0.04
Miner	SDT-410	W_9_MR_049_DT	PEM	--	44.050558	-97.708236	Lower James	10160011	Desktop	30.67	57.50	0.61
Miner	SDT-410	W_9_MR_048_DT	PEM	--	44.050801	-97.706383	Lower James	10160011	Desktop	30.77	3.55	0.37
Miner	SDT-410	W_9_MR_047_DT	PEM	--	44.051243	-97.705474	Lower James	10160011	Desktop	30.80	31.00	0.19
Miner	SDT-410	W_9_MR_047_DT	PEM	--	44.051317	-97.705212	Lower James	10160011	Desktop	30.81	17.35	0.15
Miner	SDT-410	W_9_MR_047_DT	PEM	--	44.052031	-97.704734	Lower James	10160011	Desktop	30.86	0.00	0.04
Miner	SDT-410	W_9_MR_046_DT	PEM	--	44.054608	-97.696989	Lower James	10160011	Desktop	31.29	79.75	0.55
Miner	SDT-410	W_9_MR_045_DT	PEM	--	44.055341	-97.694228	Lower James	10160011	Desktop	31.43	0.00	0.35
Miner	SDT-410	W_9_MR_044_DT	PEM	--	44.056113	-97.693685	Lower James	10160011	Desktop	31.47	0.00	0.16
Miner	SDT-410	W_9_MR_042_DT	PEM	--	44.056443	-97.688223	Lower James	10160011	Desktop	31.78	0.00	0.41
Miner	SDT-410	W_9_MR_040_DT	PEM	--	44.059499	-97.676729	Lower James	10160011	Desktop	32.37	0.00	0.02
Miner	SDT-410	W_9_MR_039_DT	PEM	--	44.059570	-97.675745	Lower James	10160011	Desktop	32.41	0.00	0.07
Miner	SDT-410	W_9_MR_038_DT	PEM	--	44.059643	-97.674856	Lower James	10160011	Desktop	32.46	0.00	0.14
Miner	SDT-410	W_9_MR_37_DT	PEM	--	44.059998	-97.670472	Lower James	10160011	Desktop	32.67	0.00	0.01
Miner	SDT-410	W_9_MR_036_DT	PEM	--	44.059877	-97.669604	Lower James	10160011	Desktop	32.71	0.00	0.25
Miner	SDT-410	W_9_MR_858_DT	PEM	--	44.059207	-97.662320	Lower James	10160011	Desktop	33.08	0.00	0.00
Miner	SDT-410	W_9_MR_858_DT	PEM	--	44.059261	-97.661774	Lower James	10160011	Desktop	33.10	0.00	0.00
Miner	SDT-410	W_9_MR_037_DT	PEM	--	44.060317	-97.660346	Lower James	10160011	Desktop	33.20	0.00	0.04
Miner	SDT-410	W_9_MR_037_DT	PEM	--	44.059813	-97.660104	Lower James	10160011	Desktop	33.21	7.91	0.12
Miner	SDT-410	W_9_MR_037_DT	PEM	--	44.059846	-97.659863	Lower James	10160011	Desktop	33.21	10.73	0.22

Wetland Crossing Table												
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Miner	SDT-410	W_9_MR_035_DT	PEM	--	44.061695	-97.650079	Lower James	10160011	Desktop	33.71	49.35	0.36
Miner	SDT-410	W_9_MR_034_DT	PEM	--	44.069274	-97.638004	Lower James	10160011	Desktop	34.53	0.00	0.10
Miner	SDT-410	W_9_MR_033_DT	PEM	--	44.069597	-97.636195	Lower James	10160011	Desktop	34.65	0.00	0.20
Miner	SDT-410	W_10_MR_949_DT	PEM	--	44.071495	-97.633448	Lower James	10160011	Desktop	34.83	26.43	0.36
Miner	SDT-410	W_10_MR_021_DT	PEM	--	44.073212	-97.631825	Lower James	10160011	Desktop	34.98	382.16	2.24
Miner	SDT-410	W_10_MR_023_DT	PEM	--	44.074071	-97.629440	Lower James	10160011	Desktop	35.11	0.00	0.16
Miner	SDT-410	W_10_MR_023_DT	PEM	--	44.074094	-97.627546	Lower James	10160011	Desktop	35.21	0.00	0.07
Miner	SDT-410	W_10_MR_950_DT	PEM	--	44.073657	-97.627169	Lower James	10160011	Desktop	35.23	56.09	0.23
Miner	SDT-410	W_10_MR_950_DT	PEM	--	44.073625	-97.626986	Lower James	10160011	Desktop	35.24	16.12	0.26
Miner	SDT-410	W_10_MR_951_DT	PEM	--	44.073536	-97.623586	Lower James	10160011	Desktop	35.38	611.74	1.57
Miner	SDT-410	W_10_MR_952_DT	PEM	--	44.073386	-97.607597	Lower James	10160011	Desktop	36.20	74.26	0.31
Miner	SDT-410	W_9_MR_025_DT	PEM	--	44.073886	-97.605153	Lower James	10160011	Desktop	36.32	0.00	0.11
Miner	SDT-410	W_10_MR_953_DT	PEM	--	44.073522	-97.603936	Lower James	10160011	Desktop	36.38	34.42	0.09
Miner	SDT-410	W_10_MR_954_DT	PEM	--	44.075952	-97.596415	Lower James	10160011	Desktop	36.80	576.38	2.49
Miner	SDT-410	W_9_MR_923_DT	PEM	--	44.077926	-97.591010	Lower James	10160011	Desktop	37.12	237.33	2.17
Miner	SDT-410	W_10_MR_034_DT	PEM	--	44.082072	-97.583500	Lower James	10160011	Desktop	37.58	114.54	1.08
Miner	SDT-410	W_10_MR_035_DT	PEM	--	44.082627	-97.581396	Lower James	10160011	Desktop	37.71	62.32	0.52
Miner	SDT-410	W_10_MR_036_DT	PEM	--	44.085909	-97.572039	Lower James	10160011	Desktop	38.22	0.00	0.07
Miner	SDT-410	W_10_MR_037_DT	PEM	--	44.086555	-97.571593	Lower James	10160011	Desktop	38.25	353.83	0.89
Miner	SDT-410	W_10_MR_038_DT	PEM	--	44.086572	-97.569852	Lower James	10160011	Desktop	38.34	582.05	2.52
Miner	SDT-410	W_10_MR_039_DT	PEM	--	44.086642	-97.568118	Lower James	10160011	Desktop	38.43	0.00	0.17
Miner	SDT-410	W_10_MR_040_DT	PEM	--	44.086946	-97.564819	Lower James	10160011	Desktop	38.60	0.00	0.10
Miner	SDT-410	W_10_MR_041_DT	PEM	--	44.087161	-97.564644	Lower James	10160011	Desktop	38.61	0.00	0.05
Miner	SDT-410	W_10_MR_042_DT	PEM	--	44.087876	-97.562178	Lower James	10160011	Desktop	38.76	784.01	2.01
Miner	SDT-410	W_10_MR_042_DT	PEM	--	44.088868	-97.560435	Lower James	10160011	Desktop	38.85	0.00	0.03
Miner	SDT-410	W_9_MR_013_DT	PEM	--	44.092923	-97.560596	Lower James	10160011	Desktop	39.13	187.46	0.56
Miner	SDT-410	W_9_MR_012_DT	PEM	--	44.093789	-97.560601	Lower James	10160011	Desktop	39.19	177.49	0.67
Miner	SDT-410	W_9_MR_011_DT	PEM	--	44.097773	-97.560284	Lower James	10160011	Desktop	39.49	252.95	2.38
Miner	SDT-410	W_9_MR_010_DT	PEM	--	44.102061	-97.557911	Lower James	10160011	Desktop	39.77	0.00	0.08

Wetland Crossing Table												
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Miner	SDT-410	W_9_MR_009_DT	PEM	--	44.106168	-97.553628	Lower James	10160011	Desktop	40.14	14.97	0.03
Miner	SDT-410	W_9_MR_008_DT	PEM	--	44.107276	-97.552691	Lower James	10160011	Desktop	40.23	57.88	0.50
Miner	SDT-410	W_9_MR_007_DT	PEM	--	44.109062	-97.551524	Lower James	10160011	Desktop	40.35	0.00	0.03
Miner	SDT-410	W_9_MR_006_DT	PEM	--	44.110450	-97.548508	Lower James	10160011	Desktop	40.55	0.00	0.18
Miner	SDT-410	W_9_MR_005_DT	PEM	--	44.112183	-97.548549	Vermillion	10170102	Desktop	40.67	0.00	0.25
Miner	SDT-410	W_9_MR_004_DT	PEM	--	44.121404	-97.543070	Vermillion	10170102	Desktop	41.44	48.56	0.42
Miner	SDT-410	W_9_MR_004_DT	PEM	--	44.121517	-97.542926	Vermillion	10170102	Desktop	41.45	45.60	0.33
Miner	SDT-410	W_9_MR_003_DT	PEM	--	44.123803	-97.535234	Vermillion	10170102	Desktop	41.86	0.00	0.06
Miner	SDT-410	W_9_MR_002_DT	PEM	--	44.124161	-97.532548	Vermillion	10170102	Desktop	41.98	0.00	0.05
Miner	SDT-410	W_9_MR_002_DT	PEM	--	44.123705	-97.532455	Vermillion	10170102	Desktop	41.99	20.07	0.09
Miner	SDT-410	W_9_MR_002_DT	PEM	--	44.124238	-97.532276	Vermillion	10170102	Desktop	41.99	0.00	0.01
Miner	SDT-410	W_9_MR_002_DT	PEM	--	44.123907	-97.532555	Vermillion	10170102	Desktop	41.99	12.18	0.11
Minnehaha	SDM-104	W2005MN186	PEM	--	43.507458	-96.942376	Lower Big Sioux	10170203	Survey	55.03	98.01	0.82
Minnehaha	SDM-104	W2005MN186	PEM	--	43.507846	-96.942636	Lower Big Sioux	10170203	Survey	55.05	86.11	0.72
Minnehaha	SDM-104	W2005MN187	PEM	--	43.511474	-96.950801	Lower Big Sioux	10170203	Survey	55.55	422.78	2.28
Minnehaha	SDM-104	W2002MI130	PEM	--	43.515724	-96.954567	Lower Big Sioux	10170203	Survey	55.92	49.53	0.29
Minnehaha	SDM-104	W2011MN047	PEM	--	43.516873	-96.957431	Lower Big Sioux	10170203	Survey	56.08	0.00	1.03
Minnehaha	SDM-104	W_12_MN_001_DT	PEM	--	43.522224	-96.968773	Lower Big Sioux	10170203	Desktop	56.82	27.42	0.22
Minnehaha	SDM-104	W_9_MN_093_DT_USACE	PEM	--	43.522672	-96.968113	Lower Big Sioux	10170203	Desktop	56.82	0.00	0.12
Minnehaha	SDM-104	W_9_MN_092_DT	PEM	--	43.522962	-96.969889	Lower Big Sioux	10170203	Desktop	56.90	0.00	0.00
Minnehaha	SDM-104	W3919MI339	PEM	--	43.522807	-96.971211	Lower Big Sioux	10170203	Survey	56.95	0.00	0.00
Minnehaha	SDM-104	W2015MN226	PEM	--	43.529439	-96.982773	Lower Big Sioux	10170203	Survey	57.93	980.19	1.33
Minnehaha	SDM-104	W2015MN227	PEM	--	43.535726	-96.983214	Lower Big Sioux	10170203	Survey	58.29	158.85	0.72
Minnehaha	SDM-104	W2020MN004	PEM	--	43.538101	-96.983710	Lower Big Sioux	10170203	Survey	58.40	34.64	0.39
Minnehaha	SDM-104	W2020MN004	PEM	--	43.537482	-96.983072	Lower Big Sioux	10170203	Survey	58.41	39.34	0.26
Minnehaha	SDM-104	W_2_MN_053_DT	PEM	--	43.544173	-96.983814	Lower Big Sioux	10170203	Desktop	58.87	162.23	1.38
Minnehaha	SDM-104	W2005MN189	PEM	--	43.551103	-96.980948	Lower Big Sioux	10170203	Survey	59.38	521.17	3.98
Minnehaha	SDM-104	W2005MN188	PEM	--	43.555319	-96.979384	Lower Big Sioux	10170203	Survey	59.66	0.00	0.47
Minnehaha	SDM-104	W3919MI354	PEM	--	43.571868	-96.979264	Lower Big Sioux	10170203	Survey	60.83	0.00	0.08

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Minnehaha	SDM-104	W3919MI354	PEM	--	43.572034	-96.979976	Lower Big Sioux	10170203	Survey	60.86	0.00	0.05
Minnehaha	SDM-104	W_2_MN_546_DT	PEM	--	43.571697	-96.980641	Lower Big Sioux	10170203	Desktop	60.88	203.61	1.29
Minnehaha	SDM-104	W_2_MN_578_DT_USACE	PEM	--	43.574339	-96.980461	Lower Big Sioux	10170203	Desktop	61.08	546.11	1.43
Minnehaha	SDM-104	W_9_MN_94_DT_USACE	PEM	--	43.576541	-96.980807	Lower Big Sioux	10170203	Desktop	61.17	390.93	0.78
Minnehaha	SDM-104	W_9_MN_030_DT	PEM	--	43.581688	-96.980849	Lower Big Sioux	10170203	Desktop	61.57	0.00	0.18
Minnehaha	SDM-104	W_9_MN_029_DT	PEM	--	43.587023	-96.981266	Lower Big Sioux	10170203	Desktop	61.94	8.37	0.05
Minnehaha	SDM-104	W2005MN191	PEM	--	43.590689	-96.981234	Lower Big Sioux	10170203	Survey	62.19	222.14	1.28
Minnehaha	SDM-104	W2005MN191	PEM	--	43.591121	-96.981271	Lower Big Sioux	10170203	Survey	62.22	104.01	0.80
Minnehaha	SDM-104	W2008MN027	PEM	--	43.595709	-96.980272	Lower Big Sioux	10170203	Survey	62.56	0.00	0.07
Minnehaha	SDM-104	W2008MN028	PEM	--	43.600899	-96.979265	Lower Big Sioux	10170203	Survey	62.89	79.83	0.82
Minnehaha	SDM-104	W2015MN176	PEM	--	43.601796	-96.978952	Lower Big Sioux	10170203	Survey	62.98	0.00	0.11
Minnehaha	SDM-104	W_12_MN_002_DT	PEM	--	43.607828	-96.980116	Lower Big Sioux	10170203	Survey	63.40	0.00	0.00
Minnehaha	SDM-104	W_12_MN_002_DT	PEM	--	43.608383	-96.979611	Lower Big Sioux	10170203	Survey	63.43	234.98	0.94
Minnehaha	SDM-104	W2015MN001	PEM	--	43.615299	-96.978895	Lower Big Sioux	10170203	Survey	63.93	323.97	2.04
Minnehaha	SDM-104	W_12_MN_004_DT	PEM	--	43.615106	-96.978285	Lower Big Sioux	10170203	Desktop	63.96	0.00	0.14
Minnehaha	SDM-104	W_12_MN_003_DT	PEM	--	43.619539	-96.979906	Lower Big Sioux	10170203	Desktop	64.29	54.60	0.31
Minnehaha	SDM-104	W_9_MN_024_DT	PEM	--	43.623269	-96.986955	Lower Big Sioux	10170203	Desktop	64.74	6.61	0.06
Minnehaha	SDM-104	W_9_MN_024_DT	PEM	--	43.623345	-96.986999	Lower Big Sioux	10170203	Desktop	64.75	1.93	0.05
Minnehaha	SDM-104	W_9_MN_023_DT	PEM	--	43.626540	-96.988396	Lower Big Sioux	10170203	Desktop	65.01	474.62	1.13
Minnehaha	SDM-104	W_9_MN_022_DT	PEM	--	43.631784	-96.989213	Lower Big Sioux	10170203	Desktop	65.34	0.00	0.15
Minnehaha	SDM-104	W_9_MN_021_DT	PEM	--	43.633501	-96.991732	Lower Big Sioux	10170203	Desktop	65.55	40.63	0.40
Minnehaha	SDM-104	W_9_MN_021_DT	PEM	--	43.633198	-96.992228	Lower Big Sioux	10170203	Desktop	65.55	0.00	0.00
Minnehaha	SDM-104	W_9_MN_021_DT	PEM	--	43.633637	-96.991967	Lower Big Sioux	10170203	Desktop	65.55	2.81	0.07
Minnehaha	SDM-104	W_9_MN_020_DT	PEM	--	43.635425	-96.992841	Lower Big Sioux	10170203	Desktop	65.72	43.52	0.52
Minnehaha	SDM-104	W_9_MN_020_DT	PEM	--	43.635696	-96.992882	Lower Big Sioux	10170203	Desktop	65.73	67.42	0.48
Minnehaha	SDM-104	W_9_MN_019_DT	PEM	--	43.637393	-96.992666	Lower Big Sioux	10170203	Desktop	65.84	135.92	0.77
Minnehaha	SDM-104	W_9_MN_018_DT	PEM	--	43.639980	-96.993928	Lower Big Sioux	10170203	Desktop	66.03	139.76	0.95
Minnehaha	SDM-104	W_9_MN_103_DT	PEM	--	43.654235	-96.996451	Lower Big Sioux	10170203	Desktop	67.06	104.23	0.82
Minnehaha	SDM-104	W_10_MI_010_DT	PEM	--	43.656143	-96.994645	Lower Big Sioux	10170203	Desktop	67.20	371.19	1.77

Wetland Crossing Table												
County	Route ID	Feature ID	Feature Type	Feature Name	Latitude	Longitude	HUC 8 Watershed Name	HUC 8 Watershed No.	Survey or Desktop	Approx. MP	ESC Crossing Length (ft)	ESC Total Acres
Minnehaha	SDM-104	W_10_MI_009_DT	PEM	--	43.657578	-96.992895	Lower Big Sioux	10170203	Desktop	67.34	307.81	2.16
Minnehaha	SDM-104	W_10_MI_008_DT	PEM	--	43.659309	-96.989772	Lower Big Sioux	10170203	Desktop	67.55	45.04	0.43
Minnehaha	SDM-104	W_10_MI_007_DT	PEM	--	43.660112	-96.988641	Lower Big Sioux	10170203	Desktop	67.64	161.96	0.35
Minnehaha	SDM-104	W_10_MI_007_DT	PEM	--	43.661523	-96.988593	Lower Big Sioux	10170203	Desktop	67.74	0.00	0.03
Minnehaha	SDM-104	W_10_MI_006_DT	PEM	--	43.668645	-96.988933	Lower Big Sioux	10170203	Desktop	68.21	0.00	0.04
Minnehaha	SDM-104	W3919MI311	PEM	--	43.668228	-96.989338	Lower Big Sioux	10170203	Survey	68.22	35.59	0.23
Minnehaha	SDM-104	W_10_MI_001_DT	PEM	--	43.667975	-96.990937	Lower Big Sioux	10170203	Desktop	68.33	0.00	0.03
Minnehaha	SDM-104	W2023MN081	PEM	--	43.668407	-96.992073	Lower Big Sioux	10170203	Survey	68.36	628.19	4.13
Minnehaha	SDM-104	W_10_MI_002_DT	PEM	--	43.668018	-96.992868	Lower Big Sioux	10170203	Desktop	68.42	0.00	0.03
Minnehaha	SDM-104	W_10_MI_003_DT	PEM	--	43.668599	-96.995008	Lower Big Sioux	10170203	Desktop	68.51	0.00	0.08
Minnehaha	SDM-104	W2023MN081	PEM	--	43.669075	-96.994892	Lower Big Sioux	10170203	Survey	68.52	261.53	1.45
Minnehaha	SDM-104	W_10_MI_004_DT_PEM	PEM	--	43.669808	-96.997954	Lower Big Sioux	10170203	Desktop	68.65	0.00	0.41
Minnehaha	SDM-104	W2023MN082_PEM	PEM	--	43.669989	-96.997075	Lower Big Sioux	10170203	Survey	68.65	37.03	0.44
Minnehaha	SDM-104	W_10_MI_004_DT_PSS	PSS	--	43.669750	-96.997714	Lower Big Sioux	10170203	Desktop	68.66	0.00	0.01
Minnehaha	SDM-104	W2023MN082_PSS	PSS	--	43.670132	-96.997551	Lower Big Sioux	10170203	Survey	68.67	195.60	0.93
Minnehaha	SDM-104	W2023MN082_PEM_B	PEM	--	43.670221	-96.998239	Lower Big Sioux	10170203	Survey	68.70	95.29	0.64
Minnehaha	SDM-104	W_10_MI_005_DT	PEM	--	43.672658	-97.004950	Lower Big Sioux	10170203	Desktop	69.06	0.00	0.21
Minnehaha	SDM-104	W2023MN057	PEM	--	43.673132	-97.004881	Lower Big Sioux	10170203	Survey	69.09	247.62	1.52
Minnehaha	SDM-104	W_9_MN_095_DT	PEM	--	43.673612	-97.007433	Lower Big Sioux	10170203	Desktop	69.24	0.00	0.36
Minnehaha	SDM-104	W2023MN058	PEM	--	43.674001	-97.007664	Lower Big Sioux	10170203	Survey	69.24	22.97	0.22
Minnehaha	SDM-104	W_9_MN_849_DT	PEM	--	43.674354	-97.009300	Lower Big Sioux	10170203	Desktop	69.33	14.23	0.14
Minnehaha	SDM-104	W2023MN059	PEM	--	43.674500	-97.008642	Lower Big Sioux	10170203	Survey	69.34	0.00	0.02
Minnehaha	SDM-104	W2015MN225	PEM	--	43.674885	-97.010797	Lower Big Sioux	10170203	Survey	69.44	132.40	0.78
Minnehaha	SDM-104	W_9_MN_242_DT_USACE	PEM	--	43.678157	-97.023033	Lower Big Sioux	10170203	Desktop	70.10	324.37	2.16
Minnehaha	SDM-104	W_9_MN_240_DT_USACE	PEM	--	43.678044	-97.028145	Lower Big Sioux	10170203	Desktop	70.35	82.47	0.65
Minnehaha	SDM-104	W2005MN192	PEM	--	43.684267	-97.042543	Lower Big Sioux	10170203	Survey	71.22	324.49	1.28
Minnehaha	SDM-104	W2005MN192	PEM	--	43.684583	-97.043367	Lower Big Sioux	10170203	Survey	71.25	34.86	0.35
Minnehaha	SDM-104	W2008MN032	PEM	--	43.685072	-97.044598	Lower Big Sioux	10170203	Survey	71.34	0.00	0.00
Minnehaha	SDM-104	W2008MN032	PEM	--	43.685101	-97.044749	Lower Big Sioux	10170203	Survey	71.35	0.00	0.01

Wetland Crossing Table												
County	Route ID	Feature ID	Feature Type	Feature Name	Latitude	Longitude	HUC 8 Watershed Name	HUC 8 Watershed No.	Survey or Desktop	Approx. MP	ESC Crossing Length (ft)	ESC Total Acres
Minnehaha	SDM-104	W2008MN033	PEM	--	43.687938	-97.052943	Lower Big Sioux	10170203	Survey	71.78	43.63	1.13
Minnehaha	SDM-104	W2008MN034	PEM	--	43.689116	-97.054335	Lower Big Sioux	10170203	Survey	71.93	0.00	0.21
Minnehaha	SDM-104	W2011MN048	PEM	--	43.691221	-97.058036	Lower Big Sioux	10170203	Survey	72.16	0.00	0.05
Minnehaha	SDM-104	W_9_MN_152_DT_USACE	PEM	--	43.696196	-97.071114	Lower Big Sioux	10170203	Desktop	72.89	0.00	1.65
Minnehaha	SDM-104	W_9_MN_153_DT_USACE	PEM	--	43.699471	-97.070837	Lower Big Sioux	10170203	Desktop	73.13	231.08	1.90
Minnehaha	SDM-104	W_9_MN_153_DT_USACE	PEM	--	43.699993	-97.070143	Lower Big Sioux	10170203	Desktop	73.17	0.00	0.00
Minnehaha	SDM-104	W2008MN036	PEM	--	43.702700	-97.073230	Lower Big Sioux	10170203	Survey	73.41	25.64	0.46
Minnehaha	SDM-104	W_9_MN_009_DT	PEM	--	43.711751	-97.081748	Lower Big Sioux	10170203	Desktop	74.19	0.00	0.07
Minnehaha	SDM-104	W_9_MN_008_DT	PEM	--	43.714306	-97.081348	Lower Big Sioux	10170203	Desktop	74.37	176.95	1.31
Minnehaha	SDM-104	W_9_MN_007_DT	PEM	--	43.718941	-97.081711	Lower Big Sioux	10170203	Desktop	74.67	41.70	0.33
Minnehaha	SDM-104	W2008MN035	PEM	--	43.741416	-97.090710	Lower Big Sioux	10170203	Survey	76.30	51.10	0.47
Minnehaha	SDM-104	W2002MI129	PEM	--	43.755056	-97.096241	Lower Big Sioux	10170203	Survey	77.30	86.14	0.22
Minnehaha	SDM-104	W_2_MN_005_DT	PEM	--	43.761022	-97.097912	Lower Big Sioux	10170203	Desktop	77.71	0.00	0.03
Minnehaha	SDM-104	W2002MI128	PEM	--	43.761054	-97.098355	Lower Big Sioux	10170203	Survey	77.74	68.64	0.61
Minnehaha	SDM-104	W_9_MN_095_DT_USACE	PEM	--	43.761662	-97.098439	Lower Big Sioux	10170203	Desktop	77.83	792.59	2.62
Minnehaha	SDM-104	W_12_MN_006_DT	PEM	--	43.765674	-97.098013	Lower Big Sioux	10170203	Desktop	78.06	0.00	0.02
Minnehaha	SDM-104	W_12_MN_006_DT	PEM	--	43.767274	-97.098547	Lower Big Sioux	10170203	Desktop	78.17	91.47	0.68
Minnehaha	SDM-104	W_12_MN_006_DT	PEM	--	43.766557	-97.097489	Lower Big Sioux	10170203	Desktop	78.17	0.00	0.81
Minnehaha	SDM-104	W_12_MN_004_DT	PEM	--	43.774535	-97.101290	Lower Big Sioux	10170203	Desktop	78.69	0.00	0.09
Minnehaha	SDM-104	W_9_MN_520_DT	PEM	--	43.783101	-97.108303	Lower Big Sioux	10170203	Desktop	79.39	0.00	0.06
Minnehaha	SDM-104	W2008MN037_PEM	PEM	--	43.782832	-97.108991	Lower Big Sioux	10170203	Survey	79.39	38.35	0.27
Minnehaha	SDM-104	W2008MN037_PFO_1	PFO	--	43.782905	-97.108738	Lower Big Sioux	10170203	Survey	79.39	0.00	0.05
Minnehaha	SDM-104	W2008MN037_PFO_2	PFO	--	43.782804	-97.109174	Lower Big Sioux	10170203	Survey	79.40	0.00	0.05
Minnehaha	SDM-104	W2008MN038	PEM	--	43.788580	-97.111422	Lower Big Sioux	10170203	Survey	79.85	31.14	0.20
Minnehaha	SDM-104	W2008MN039	PEM	--	43.794441	-97.113586	Lower Big Sioux	10170203	Survey	80.26	18.10	0.25
Minnehaha	SDM-104	W_9_MN_111_DT_USACE	PEM	--	43.798127	-97.115231	Lower Big Sioux	10170203	Desktop	80.53	53.17	0.26
Minnehaha	SDM-104	W2008MN140	PEM	--	43.802043	-97.117488	Lower Big Sioux	10170203	Survey	80.81	20.73	0.21
Minnehaha	SDM-104	W_9_MN_120_DT_USACE	PEM	--	43.805209	-97.119025	Lower Big Sioux	10170203	Desktop	81.06	178.98	0.55
Minnehaha	SDM-104	W2006MN082	PEM	--	43.806381	-97.120439	Lower Big Sioux	10170203	Survey	81.14	0.00	0.17

Wetland Crossing Table												
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Minnehaha	SDM-104	W2006MN083	PEM	--	43.808324	-97.121148	Lower Big Sioux	10170203	Survey	81.29	69.38	0.35
Minnehaha	SDM-104	W2003MI079_PSS	PSS	--	43.822336	-97.129301	Lower Big Sioux	10170203	Survey	82.38	0.00	0.12
Minnehaha	SDM-104	W2003MI079	PEM	--	43.822379	-97.129821	Lower Big Sioux	10170203	Survey	82.39	117.69	0.69
Minnehaha	SDT-212	W3919MI356	PEM	--	43.500090	-97.012114	Lower Big Sioux	10170203	Survey	15.17	164.27	0.79
Minnehaha	SDT-212	W3919MI357	PEM	--	43.502763	-97.008094	Lower Big Sioux	10170203	Survey	15.49	43.36	0.37
Minnehaha	SDT-212	W3112MI070	PEM	--	43.503676	-97.002372	Lower Big Sioux	10170203	Survey	15.79	176.74	1.41
Minnehaha	SDT-212	W3112MI070	PEM	--	43.503579	-97.000326	Lower Big Sioux	10170203	Survey	15.91	0.00	0.52
Minnehaha	SDT-212	W3919MI358	PEM	--	43.505437	-96.997334	Lower Big Sioux	10170203	Survey	16.03	69.29	0.72
Minnehaha	SDT-212	W_9_MN_010_DT	PEM	--	43.507884	-96.993798	Lower Big Sioux	10170203	Desktop	16.33	63.02	0.45
Minnehaha	SDT-212	W_9_MN_082_DT	PEM	--	43.509595	-96.990221	Lower Big Sioux	10170203	Desktop	16.57	67.27	0.47
Minnehaha	SDT-212	W_9_MN_083_DT	PEM	--	43.510600	-96.987605	Lower Big Sioux	10170203	Desktop	16.72	20.67	0.12
Minnehaha	SDT-212	W_9_MN_084_DT	PEM	--	43.512418	-96.985232	Lower Big Sioux	10170203	Desktop	16.89	38.41	0.57
Minnehaha	SDT-212	W_9_MN_085_DT	PEM	--	43.513128	-96.982748	Lower Big Sioux	10170203	Desktop	17.02	183.36	0.87
Minnehaha	SDT-212	W_9_MN_086_DT	PEM	--	43.517696	-96.980677	Lower Big Sioux	10170203	Desktop	17.36	116.07	0.71
Minnehaha	SDT-212	W_9_MN_087_DT	PEM	--	43.519849	-96.977540	Lower Big Sioux	10170203	Desktop	17.58	30.70	0.24
Minnehaha	SDT-212	W_12_MN_001_DT	PEM	--	43.521053	-96.976646	Lower Big Sioux	10170203	Desktop	17.67	0.00	0.35
Minnehaha	SDT-212	W_9_MN_091_DT	PEM	--	43.522264	-96.970566	Lower Big Sioux	10170203	Desktop	18.01	90.18	0.31
Minnehaha	SDT-212	W_9_MN_090_DT	PEM	--	43.521894	-96.969459	Lower Big Sioux	10170203	Desktop	18.06	313.56	0.26
Minnehaha	SDT-212	W3919MI359	PEM	--	43.506924	-96.994253	Lower Big Sioux	10170203	Survey	16.27	0.00	0.19
Sanborn	SDT-410	W_10_SN_063_DT	PEM	--	43.851462	-98.028840	Lower James	10160011	Desktop	5.54	214.97	1.06
Sanborn	SDT-410	W_10_SN_064_DT	PEM	--	43.851619	-98.027336	Lower James	10160011	Desktop	5.63	0.00	0.20
Sanborn	SDT-410	W_12_SN_009_DT	PEM	--	43.851208	-98.026621	Lower James	10160011	Desktop	5.67	242.90	0.43
Sanborn	SDT-410	W_12_SN_008_DT	PEM	--	43.851363	-98.024948	Lower James	10160011	Desktop	5.76	75.76	0.29
Sanborn	SDT-410	W_12_SN_007_DT	PEM	--	43.851545	-98.024089	Lower James	10160011	Desktop	5.79	0.00	0.73
Sanborn	SDT-410	W_12_SN_006_DT	PEM	--	43.851282	-98.022038	Lower James	10160011	Desktop	5.89	505.79	1.23
Sanborn	SDT-410	W_12_SN_005_DT	PEM	--	43.851191	-98.020702	Lower James	10160011	Desktop	5.97	55.68	0.12
Sanborn	SDT-410	W_12_SN_004_DT	PEM	--	43.851340	-98.016666	Lower James	10160011	Desktop	6.18	427.94	1.85
Sanborn	SDT-410	W_12_SN_003_DT	PEM	--	43.851283	-98.013736	Lower James	10160011	Desktop	6.34	509.36	1.81
Sanborn	SDT-410	W_12_SN_002_DT	PEM	--	43.851357	-98.010455	Lower James	10160011	Desktop	6.47	0.00	0.14

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Sanborn	SDT-410	W_12_SN_001-DT	PEM	--	43.851362	-98.009303	Lower James	10160011	Desktop	6.54	0.00	0.12
Sanborn	SDT-410	W_9_DV_039_DT	PEM	--	43.850923	-97.990834	Lower James	10160011	Desktop	7.46	1,064.50	7.37
Sanborn	SDT-410	W_9_SN_153_DT	PEM	--	43.851276	-97.981619	Lower James	10160011	Desktop	7.92	0.00	0.00
Sanborn	SDT-410	W_9_SN_153_DT	PEM	--	43.851215	-97.981465	Lower James	10160011	Desktop	7.93	0.00	0.02
Sanborn	SDT-410	W_9_SN_154_DT	PEM	--	43.851201	-97.980555	Lower James	10160011	Desktop	7.97	0.00	0.05
Sanborn	SDT-410	W_10_SN_011_DT	PEM	--	43.858411	-97.959566	Lower James	10160011	Desktop	9.17	0.00	0.12
Sanborn	SDT-410	W_10_SN_012_DT	PEM	--	43.858014	-97.959316	Lower James	10160011	Desktop	9.17	25.17	0.11
Sanborn	SDT-410	W_10_SN_013_DT	PEM	--	43.859125	-97.954996	Lower James	10160011	Desktop	9.40	125.87	0.93
Sanborn	SDT-410	W_10_SN_015_DT	PEM	--	43.859285	-97.952206	Lower James	10160011	Desktop	9.54	0.00	0.07
Sanborn	SDT-410	W_10_SN_014_DT	PEM	--	43.860122	-97.951688	Lower James	10160011	Desktop	9.58	0.00	0.11
Sanborn	SDT-410	W_10_SN_016_DT	PEM	--	43.859731	-97.951241	Lower James	10160011	Desktop	9.59	65.56	0.46
Sanborn	SDT-410	W_10_SN_916_DT	PEM	--	43.860335	-97.949713	Lower James	10160011	Desktop	9.69	0.00	0.73
Sanborn	SDT-410	W_10_SN_018_DT	PEM	--	43.861293	-97.949638	Lower James	10160011	Desktop	9.73	0.00	0.17
Sanborn	SDT-410	W_10_SN_017_DT	PEM	--	43.862929	-97.947797	Lower James	10160011	Desktop	9.90	201.84	1.88
Sanborn	SDT-410	W_10_SN_019_DT	PEM	--	43.863981	-97.946572	Lower James	10160011	Desktop	9.98	186.64	0.76
Sanborn	SDT-410	W_10_SN_020_DT	PEM	--	43.866175	-97.945259	Lower James	10160011	Desktop	10.14	0.00	0.28
Sanborn	SDT-410	W_10_SN_921_DT	PEM	--	43.867800	-97.940315	Lower James	10160011	Desktop	10.42	235.37	1.50
Sanborn	SDT-410	W_10_SN_049_DT	PEM	--	43.868334	-97.938193	Lower James	10160011	Desktop	10.52	0.00	0.48
Sanborn	SDT-410	W_10_SN_059_DT	PEM	--	43.873081	-97.921607	Lower James	10160011	Desktop	11.46	14.25	0.35
Sanborn	SDT-410	W_10_SN_060_DT	PEM	--	43.874020	-97.922283	Lower James	10160011	Desktop	11.53	0.00	0.07
Sanborn	SDT-410	W_10_SN_061_DT	PEM	--	43.877667	-97.921513	Lower James	10160011	Desktop	11.78	74.58	0.40
Sanborn	SDT-410	W_10_SN_050_DT	PEM	--	43.879187	-97.921486	Lower James	10160011	Desktop	11.89	128.24	0.94
Sanborn	SDT-410	W_10_SN_062_DT	PEM	--	43.880031	-97.921767	Lower James	10160011	Desktop	11.95	113.84	0.85
Sanborn	SDT-410	W_10_SN_051_DT	PEM	--	43.891868	-97.921468	Lower James	10160011	Desktop	12.78	36.88	0.35
Sanborn	SDT-410	W_10_SN_052_DT	PEM	--	43.894522	-97.921700	Lower James	10160011	Desktop	12.95	106.52	0.32
Sanborn	SDT-410	W_10_SN_052_DT	PEM	--	43.897098	-97.921878	Lower James	10160011	Desktop	13.13	0.00	0.04
Sanborn	SDT-410	W_10_SN_054_DT	PEM	--	43.901307	-97.921570	Lower James	10160011	Desktop	13.42	64.10	0.47
Sanborn	SDT-410	W_10_SN_053_DT	PEM	--	43.906709	-97.921461	Lower James	10160011	Desktop	13.77	0.00	0.10
Sanborn	SDT-410	W_10_SN_031_DT	PEM	--	43.912012	-97.922643	Lower James	10160011	Desktop	14.17	109.75	0.62

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Sanborn	SDT-410	W_10_SN_032_DT	PEM	--	43.919367	-97.921684	Lower James	10160011	Desktop	14.68	274.59	1.86
Sanborn	SDT-410	W_10_SN_033_DT	PEM	--	43.921738	-97.922133	Lower James	10160011	Desktop	14.84	0.00	0.16
Sanborn	SDT-410	W_10_SN_034_DT	PEM	--	43.922900	-97.922176	Lower James	10160011	Desktop	14.94	0.00	0.40
Sanborn	SDT-410	W_10_SN_035_DT	PEM	--	43.923414	-97.922142	Lower James	10160011	Desktop	14.95	9.66	0.21
Sanborn	SDT-410	W_10_SN_036_DT	PEM	--	43.924523	-97.920611	Lower James	10160011	Desktop	15.05	0.00	0.01
Sanborn	SDT-410	W_10_SN_037_DT	PEM	--	43.927361	-97.920183	Lower James	10160011	Desktop	15.24	0.00	0.15
Sanborn	SDT-410	W_10_SN_038_DT	PEM	--	43.927349	-97.919220	Lower James	10160011	Desktop	15.26	0.00	0.16
Sanborn	SDT-410	W_10_SN_039_DT	PEM	--	43.928626	-97.919149	Lower James	10160011	Desktop	15.34	150.44	0.43
Sanborn	SDT-410	W_10_SN_040_DT	PEM	--	43.930290	-97.918164	Lower James	10160011	Desktop	15.46	0.00	0.31
Sanborn	SDT-410	W_9_SN_019_DT	PEM	--	43.936096	-97.916615	Lower James	10160011	Desktop	15.88	32.62	0.37
Sanborn	SDT-410	W_9_SN_019_DT	PEM	--	43.936299	-97.916434	Lower James	10160011	Desktop	15.89	88.68	0.35
Sanborn	SDT-410	W_9_SN_018_DT	PEM	--	43.939254	-97.915781	Lower James	10160011	Desktop	16.11	0.00	0.42
Sanborn	SDT-410	W_9_SN_017_DT	PEM	--	43.939890	-97.915492	Lower James	10160011	Desktop	16.14	0.00	0.38
Sanborn	SDT-410	W_9_SN_016_DT	PEM	--	43.940095	-97.914646	Lower James	10160011	Desktop	16.16	0.00	0.46
Sanborn	SDT-410	W_9_SN_015_DT	PEM	--	43.942414	-97.913283	Lower James	10160011	Desktop	16.33	0.00	0.26
Sanborn	SDT-410	W_9_SN_014_DT	PEM	--	43.944524	-97.910809	Lower James	10160011	Desktop	16.56	0.00	0.19
Sanborn	SDT-410	W_9_SN_013_DT	PEM	--	43.950555	-97.901822	Lower James	10160011	Desktop	17.18	54.29	0.46
Sanborn	SDT-410	W_10_SN_055_DT	PEM	--	43.953084	-97.900920	Lower James	10160011	Desktop	17.37	122.37	0.30
Sanborn	SDT-410	W_10_SN_056_DT	PEM	--	43.961303	-97.900864	Lower James	10160011	Desktop	17.87	3,502.56	17.31
Sanborn	SDT-410	W_10_SN_057_DT	PEM	--	43.966358	-97.900253	Lower James	10160011	Desktop	18.30	102.56	0.80
Sanborn	SDT-410	W_10_SN_058_DT	PEM	--	43.971006	-97.894524	Lower James	10160011	Desktop	18.73	0.00	0.40
Sanborn	SDT-410	W_10_SN_004_DT	PEM	--	43.975664	-97.889555	Lower James	10160011	Desktop	19.17	427.63	2.90
Sanborn	SDT-410	W_10_SN_007_DT	PEM	--	43.978665	-97.884612	Lower James	10160011	Desktop	19.49	10.48	0.08
Sanborn	SDT-410	W_10_SN_008_DT	PEM	--	43.979717	-97.882512	Lower James	10160011	Desktop	19.62	203.15	1.20
Sanborn	SDT-410	W_10_SN_048_DT	PEM	--	43.986723	-97.875965	Lower James	10160011	Desktop	20.20	91.58	0.72
Sanborn	SDT-410	W_10_SN_048_DT	PEM	--	43.987291	-97.875406	Lower James	10160011	Desktop	20.25	337.92	2.34
Sanborn	SDT-410	W_10_SN_047_DT	PEM	--	43.990184	-97.871841	Lower James	10160011	Desktop	20.52	0.00	0.20
Sanborn	SDT-410	W_10_SN_046_DT	PEM	--	43.990752	-97.872017	Lower James	10160011	Desktop	20.54	205.03	1.16
Sanborn	SDT-410	W_10_SN_045_DT	PEM	--	43.993029	-97.868009	Lower James	10160011	Desktop	20.81	0.00	0.10

Wetland Crossing Table												
County	Route ID	Feature ID	Feature Type	Feature Name	Latitude	Longitude	HUC 8 Watershed Name	HUC 8 Watershed No.	Survey or Desktop	Approx. MP	ESC Crossing Length (ft)	ESC Total Acres
Sanborn	SDT-410	W_10_SN_044_DT	PEM	--	43.993523	-97.867930	Lower James	10160011	Desktop	20.84	115.18	0.43
Sanborn	SDT-410	W_10_SN_043_DT	PEM	--	43.995697	-97.865034	Lower James	10160011	Desktop	21.08	0.00	0.05
Sanborn	SDT-410	W_10_SN_043_DT	PEM	--	43.996110	-97.863690	Lower James	10160011	Desktop	21.15	0.00	0.06
Sanborn	SDT-410	W_10_SN_042_DT	PEM	--	43.997916	-97.857936	Lower James	10160011	Desktop	21.47	153.31	0.39
Sanborn	SDT-410	W_10_SN_041_DT	PEM	--	43.998739	-97.856430	Lower James	10160011	Desktop	21.56	215.92	1.22
Spink	SDL-320	W2004SP057	PEM	--	44.877110	-98.702576	Snake	10160008	Survey	70.73	0.00	0.23
Spink	SDL-320	W2004SP056	PEM	--	44.878022	-98.700096	Snake	10160008	Survey	70.87	314.13	1.61
Spink	SDL-320	W2004SP055	PEM	--	44.878850	-98.697304	Snake	10160008	Survey	71.02	393.38	1.42
Spink	SDL-320	W2004SP054	PEM	--	44.879180	-98.694594	Snake	10160008	Survey	71.15	186.83	0.63
Spink	SDL-320	W2011SP027	PEM	--	44.881432	-98.691390	Snake	10160008	Survey	71.38	44.11	0.03
Spink	SDL-320	W2011SP026	PEM	--	44.882396	-98.688638	Snake	10160008	Survey	71.54	489.04	2.69
Spink	SDL-320	W2011SP025	PEM	--	44.883365	-98.686699	Snake	10160008	Survey	71.65	145.02	0.38
Spink	SDL-320	W_9_SP_566_DT	PEM	--	44.884011	-98.686281	Snake	10160008	Desktop	71.69	0.00	0.08
Spink	SDL-320	W2001SP157	PEM	--	44.884051	-98.685110	Snake	10160008	Survey	71.74	747.87	4.08
Spink	SDL-320	W_9_SP_566_DT	PEM	--	44.884697	-98.684793	Snake	10160008	Desktop	71.82	0.00	0.74
Spink	SDL-320	W_9_SP_566_DT	PEM	--	44.885446	-98.683170	Snake	10160008	Desktop	71.88	0.00	0.13
Spink	SDL-320	W_9_SP_566_DT	PEM	--	44.885716	-98.682555	Snake	10160008	Desktop	71.92	0.00	0.21
Spink	SDL-320	W_9_SP_566_DT	PEM	--	44.886140	-98.681655	Snake	10160008	Desktop	71.95	0.00	0.21
Spink	SDL-320	W2001SP157	PEM	--	44.886637	-98.679492	Snake	10160008	Survey	71.98	1,480.59	5.09
Spink	SDL-320	W_9_SP_566_DT	PEM	--	44.887318	-98.679086	Snake	10160008	Desktop	72.15	0.00	1.05
Spink	SDL-320	W_2_SP_073_DT	PEM	--	44.887565	-98.678265	Snake	10160008	Desktop	72.15	0.00	0.00
Spink	SDL-320	W2015SP059	PEM	--	44.888603	-98.667326	Snake	10160008	Survey	72.70	96.93	0.54
Spink	SDL-320	W2015SP058	PEM	--	44.888556	-98.666685	Snake	10160008	Survey	72.72	120.98	0.76
Spink	SDL-320	W2015SP057	PEM	--	44.888462	-98.665496	Snake	10160008	Survey	72.78	263.93	1.74
Spink	SDL-320	W2001SP057	PEM	--	44.888016	-98.657702	Snake	10160008	Survey	73.17	72.51	0.77
Spink	SDL-320	W2001SP057	PEM	--	44.887976	-98.656596	Snake	10160008	Survey	73.23	97.97	0.80
Spink	SDL-320	W2001SP056	PEM	--	44.887925	-98.655624	Snake	10160008	Survey	73.27	114.03	0.76
Spink	SDL-320	W2001SP058	PEM	--	44.888003	-98.654206	Snake	10160008	Survey	73.35	301.91	1.64
Spink	SDL-320	W2015SP056	PEM	--	44.888896	-98.644660	Snake	10160008	Survey	73.83	0.00	0.66

Wetland Crossing Table												
County	Route ID	Feature ID	Feature Type	Feature Name	Latitude	Longitude	HUC 8 Watershed Name	HUC 8 Watershed No.	Survey or Desktop	Approx. MP	ESC Crossing Length (ft)	ESC Total Acres
Spink	SDL-320	W_9_SP_567_DT	PEM	--	44.888838	-98.644279	Snake	10160008	Desktop	73.85	0.00	0.36
Spink	SDL-320	W_9_SP_556_DT	PEM	--	44.899085	-98.601933	Turtle	10160009	Desktop	76.08	1,411.28	7.41
Spink	SDL-320	W3333SP001	PEM	--	44.899371	-98.598620	Turtle	10160009	Survey	76.30	651.76	3.48
Spink	SDL-320	W_9_SP_568_DT	PEM	--	44.897957	-98.594377	Turtle	10160009	Desktop	76.45	0.00	0.01
Spink	SDL-320	W3333SP001	PEM	--	44.899505	-98.594520	Turtle	10160009	Survey	76.45	344.57	1.57
Spink	SDL-320	W_9_SP_569_DT	PEM	--	44.897955	-98.594042	Turtle	10160009	Desktop	76.47	0.00	0.01
Spink	SDL-320	W3333SP002	PEM	--	44.899798	-98.592774	Turtle	10160009	Survey	76.55	5.00	0.02
Spink	SDL-320	W3333SP004	PEM	--	44.900227	-98.589652	Turtle	10160009	Survey	76.70	0.00	0.09
Spink	SDL-320	W3333SP007	PEM	--	44.900822	-98.577706	Turtle	10160009	Survey	77.30	0.00	0.40
Spink	SDL-320	W2005SP097	PEM	--	44.900784	-98.573154	Turtle	10160009	Survey	77.52	2.20	0.16
Spink	SDL-320	W2005SP098	PEM	--	44.901242	-98.570049	Turtle	10160009	Survey	77.68	94.30	0.73
Spink	SDL-320	W_2_HA_144_DT	PEM	--	44.902408	-98.558131	Turtle	10160009	Desktop	78.27	0.00	0.00
Spink	SDL-320	W2005SP099	PEM	--	44.902835	-98.558114	Turtle	10160009	Survey	78.28	46.46	0.35
Spink	SDL-320	W2011SP024	PEM	--	44.901146	-98.545327	Turtle	10160009	Survey	78.88	0.00	0.26
Spink	SDL-320	W2011SP022	PEM	--	44.898020	-98.543821	Turtle	10160009	Survey	78.91	0.00	0.09
Spink	SDL-320	W2011SP023	PEM	--	44.897972	-98.543515	Turtle	10160009	Survey	78.93	0.00	0.05
Spink	SDL-320	W2005SP100	PEM	--	44.904756	-98.540316	Turtle	10160009	Survey	79.17	119.94	0.74
Spink	SDL-320	W2005SP101	PEM	--	44.904920	-98.538422	Turtle	10160009	Survey	79.24	0.00	0.16
Spink	SDL-320	W2011SP021	PEM	--	44.907883	-98.529376	Turtle	10160009	Survey	79.77	386.94	1.19
Spink	SDL-320	W2015SP055	PEM	--	44.909049	-98.511276	Turtle	10160009	Survey	80.68	47.69	0.18
Spink	SDL-320	W2015SP053	PEM	--	44.909301	-98.510319	Turtle	10160009	Survey	80.73	56.94	0.13
Spink	SDL-320	W2015SP054	PEM	--	44.909873	-98.510053	Turtle	10160009	Survey	80.76	0.00	0.14
Spink	SDL-320	W2002SP113	PEM	--	44.911134	-98.506762	Turtle	10160009	Survey	80.95	135.98	0.82
Spink	SDL-320	W_12_SP_020_DT	PEM	--	44.914851	-98.505569	Turtle	10160009	Survey	81.19	0.00	1.03
Spink	SDL-320	W_12_SP_019_DT	PEM	--	44.917432	-98.504826	Turtle	10160009	Survey	81.41	170.51	0.89
Spink	SDM-105	W2023BE050	PEM	--	44.629479	-98.007525	Middle James	10160006	Survey	7.26	78.31	0.42
Spink	SDM-105	W2023SP096	PEM	--	44.637250	-98.008259	Middle James	10160006	Survey	7.80	96.47	0.58
Spink	SDM-105	W2003SP083	PEM	--	44.647623	-98.010046	Middle James	10160006	Survey	8.52	0.00	0.18
Spink	SDM-105	W2020SP020	PEM	--	44.656158	-98.014541	Middle James	10160006	Survey	9.16	96.67	0.19

Wetland Crossing Table												
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Spink	SDM-105	W2020SP019	PEM	--	44.656551	-98.014805	Middle James	10160006	Survey	9.19	26.77	0.05
Spink	SDM-105	W2020SP017	PEM	--	44.656971	-98.014862	Middle James	10160006	Survey	9.23	34.26	0.59
Spink	SDM-105	W2020SP018	PEM	--	44.657364	-98.015707	Middle James	10160006	Survey	9.26	0.00	0.05
Spink	SDM-105	W2020SP016	PEM	--	44.660687	-98.017027	Middle James	10160006	Survey	9.50	5.64	0.05
Spink	SDM-105	W2003SP084	PEM	--	44.660832	-98.016649	Middle James	10160006	Survey	9.52	8.29	0.19
Spink	SDM-105	W_2_HA_777_DT	PEM	--	44.660834	-98.017445	Middle James	10160006	Desktop	9.52	0.00	0.01
Spink	SDM-105	W2014SP069	PEM	--	44.672821	-98.018391	Middle James	10160006	Survey	10.38	0.00	0.18
Spink	SDM-105	W2014SP070	PEM	--	44.675152	-98.020570	Middle James	10160006	Survey	10.57	0.00	0.01
Spink	SDM-105	W2014SP068	PEM	--	44.676683	-98.021174	Middle James	10160006	Survey	10.68	0.00	0.18
Spink	SDM-105	W2015SP076	PEM	--	44.689986	-98.029064	Middle James	10160006	Survey	11.67	0.00	0.27
Spink	SDM-105	W2015SP077	PEM	--	44.690582	-98.028655	Middle James	10160006	Survey	11.72	0.00	0.07
Spink	SDM-105	W2014SP065	PEM	--	44.703692	-98.028257	Middle James	10160006	Survey	12.63	151.85	0.33
Spink	SDM-105	W_9_SP_061_DT_USACE	PEM	--	44.706167	-98.028552	Middle James	10160006	Desktop	12.79	238.34	1.61
Spink	SDM-105	W2023SP174	PEM	--	44.718077	-98.038759	Middle James	10160006	Survey	13.89	0.00	0.12
Spink	SDM-105	W2023SP172	PEM	--	44.718226	-98.041313	Middle James	10160006	Survey	13.96	1,024.98	2.55
Spink	SDM-105	W2023SP173	PEM	--	44.718234	-98.043002	Middle James	10160006	Survey	14.10	66.42	0.48
Spink	SDM-105	W2023SP175	PEM	--	44.718600	-98.044307	Middle James	10160006	Survey	14.16	69.09	0.23
Spink	SDM-105	W2023SP176	PEM	--	44.718482	-98.046357	Middle James	10160006	Survey	14.26	86.83	0.89
Spink	SDM-105	W2023SP177	PEM	--	44.718489	-98.047890	Middle James	10160006	Survey	14.34	70.71	0.12
Spink	SDM-105	W2007SP018	PEM	--	44.727488	-98.056606	Middle James	10160006	Survey	15.11	4.77	0.06
Spink	SDM-105	W2007SP029	PEM	--	44.727771	-98.056718	Middle James	10160006	Survey	15.13	122.18	0.99
Spink	SDM-105	W2007SP016	PEM	--	44.772017	-98.098936	Middle James	10160006	Survey	18.94	16.92	0.07
Spink	SDM-105	W2007SP015	PEM	--	44.771956	-98.099584	Middle James	10160006	Survey	18.98	14.78	0.09
Spink	SDM-105	W2007SP015	PEM	--	44.771902	-98.099890	Middle James	10160006	Survey	18.99	33.79	0.29
Spink	SDM-105	W2007SP059	PEM	--	44.787796	-98.116142	Middle James	10160006	Survey	20.40	19.02	0.17
Spink	SDM-105	W_12_SP_004_DT	PEM	--	44.787459	-98.116914	Middle James	10160006	Desktop	20.40	0.00	0.06
Spink	SDM-105	W2007SP014	PEM	--	44.792076	-98.117316	Middle James	10160006	Survey	20.73	36.50	0.29
Spink	SDM-105	W2007SP013	PEM	--	44.792912	-98.117712	Middle James	10160006	Survey	20.78	0.00	0.01
Spink	SDM-105	W2007SP013	PEM	--	44.793208	-98.118647	Middle James	10160006	Survey	20.78	781.03	4.18

Wetland Crossing Table												
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Spink	SDM-105	W_12_SP_007_DT	PEM	--	44.798554	-98.120601	Middle James	10160006	Desktop	21.21	0.00	0.22
Spink	SDM-105	W_12_SP_006_DT	PEM	--	44.802335	-98.120624	Middle James	10160006	Desktop	21.48	57.51	0.45
Spink	SDM-105	W_12_SP_907_DT	PEM	--	44.805620	-98.121147	Middle James	10160006	Desktop	21.71	0.00	0.18
Spink	SDM-105	W_12_SP_008_DT	PEM	--	44.806326	-98.120237	Middle James	10160006	Desktop	21.76	0.00	0.04
Spink	SDM-105	W_12_SP_009_DT	PEM	--	44.807505	-98.121050	Middle James	10160006	Desktop	21.84	105.83	0.86
Spink	SDM-105	W_12_SP_010_DT	PEM	--	44.811325	-98.121050	Middle James	10160006	Desktop	22.10	0.00	0.06
Spink	SDM-105	W_12_SP_011_DT	PEM	--	44.812941	-98.119355	Middle James	10160006	Desktop	22.24	57.21	0.29
Spink	SDM-105	W_12_SP_012_DT	PEM	--	44.813471	-98.118987	Middle James	10160006	Desktop	22.27	0.00	0.03
Spink	SDM-105	W_12_SP_013_DT	PEM	--	44.816356	-98.118174	Middle James	10160006	Desktop	22.50	853.46	4.24
Spink	SDM-105	W_12_SP_015_DT	PEM	--	44.818127	-98.117832	Middle James	10160006	Desktop	22.63	0.00	0.28
Spink	SDM-105	W_12_SP_014_DT	PEM	--	44.820151	-98.118782	Middle James	10160006	Desktop	22.79	276.43	1.13
Spink	SDM-105	W_12_SP_016_DT	PEM	--	44.832024	-98.145328	Middle James	10160006	Desktop	24.48	902.76	2.17
Spink	SDM-105	W_12_SP_017_DT	PEM	--	44.833567	-98.147562	Middle James	10160006	Desktop	24.58	27.07	0.22
Spink	SDM-105	W_12_SP_018_DT	PEM	--	44.834034	-98.148423	Middle James	10160006	Desktop	24.63	0.00	0.06
Spink	SDM-105	W2023SP033	PEM	--	44.836611	-98.150394	Middle James	10160006	Survey	24.85	487.91	2.76
Spink	SDM-105	W_9_SP_140_DT_USACE	PEM	--	44.857722	-98.180325	Middle James	10160006	Desktop	27.37	0.00	0.28
Spink	SDM-105	W_9_SP_139_DT_USACE	PEM	--	44.857530	-98.179725	Middle James	10160006	Desktop	27.42	319.66	1.43
Spink	SDM-105	W2014SP071	PEM	--	44.871085	-98.181118	Middle James	10160006	Survey	28.36	143.73	1.08
Spink	SDM-105	W2007SP009	PEM	--	44.891214	-98.189713	Middle James	10160006	Survey	29.96	0.00	0.03
Spink	SDM-105	W_9_SP_168_DT	PEM	--	44.907992	-98.211586	Middle James	10160006	Desktop	31.53	0.00	0.34
Spink	SDM-105	W2023SP159	PEM	--	44.908901	-98.210488	Middle James	10160006	Survey	31.63	521.13	2.63
Spink	SDM-105	W_9_SP_898_DT	PEM	--	44.908952	-98.211026	Middle James	10160006	Desktop	31.67	0.00	0.36
Spink	SDM-105	W2015SP042	PEM	--	44.908501	-98.213064	Middle James	10160006	Survey	31.68	0.00	0.28
Spink	SDM-105	W_9_SP_890_DT	PEM	--	44.910053	-98.213117	Middle James	10160006	Desktop	31.73	0.00	1.17
Spink	SDM-105	W2015SP043	PEM	--	44.908749	-98.214198	Middle James	10160006	Survey	31.74	0.00	0.01
Spink	SDM-105	W_9_SP_171_DT	PEM	--	44.908681	-98.214486	Middle James	10160006	Desktop	31.75	0.00	0.35
Spink	SDM-105	W2015SP044	PEM	--	44.909820	-98.213922	Middle James	10160006	Survey	31.79	0.00	0.01
Spink	SDM-105	W2015SP044	PEM	--	44.909736	-98.214190	Middle James	10160006	Survey	31.79	0.00	0.00
Spink	SDM-105	W2007SP008	PEM	--	44.940862	-98.254629	Middle James	10160006	Survey	34.87	3.07	0.26

Wetland Crossing Table												
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Spink	SDM-105	W2007SP007	PEM	--	44.940786	-98.255256	Middle James	10160006	Survey	34.90	194.99	0.98
Spink	SDM-105	W2007SP005	PEM	--	44.948043	-98.260996	Middle James	10160006	Survey	35.48	467.40	3.08
Spink	SDM-105	W2015SP045	PEM	--	44.952316	-98.263529	Middle James	10160006	Survey	35.79	25.49	0.17
Spink	SDM-105	W2015SP046	PEM	--	44.952463	-98.263594	Middle James	10160006	Survey	35.80	28.97	0.20
Spink	SDM-105	W2015SP047	PEM	--	44.955883	-98.265533	Middle James	10160006	Survey	36.08	1,007.94	7.34
Spink	SDM-105	W2004SP036	PEM	--	44.980110	-98.293456	Middle James	10160006	Survey	38.45	0.00	0.03
Spink	SDM-105	W2004SP036	PEM	--	44.980097	-98.293208	Middle James	10160006	Survey	38.46	0.00	0.19
Spink	SDM-105	W3112SP037	PEM	--	45.018476	-98.309879	Middle James	10160006	Survey	41.33	29.71	0.42
Spink	SDM-105	W3112SP037	PEM	--	45.019114	-98.310286	Middle James	10160006	Survey	41.35	19.27	0.17
Spink	SDM-105	W3112SP038	PEM	--	45.040729	-98.329882	Middle James	10160006	Survey	43.18	4.15	0.07
Spink	SDM-105	W3112SP039	PEM	--	45.053248	-98.339729	Middle James	10160006	Survey	44.24	0.00	1.12
Spink	SDM-105	W_9_SP_869_DT	PEM	--	45.070164	-98.360275	Middle James	10160006	Desktop	45.73	737.70	5.06
Spink	SDM-105	W_9_SP_144_DT	PEM	--	45.079484	-98.378157	Middle James	10160006	Desktop	46.84	1,666.73	11.47
Spink	SDM-105	W_9_SP_146_DT	PEM	--	45.084988	-98.392861	Middle James	10160006	Desktop	47.72	122.91	0.91
Spink	SDM-105	W_9_SP_883_DT	PEM	--	45.090714	-98.405079	Middle James	10160006	Desktop	48.43	154.41	1.03
Spink	SDM-105	W_9_SP_878_DT	PEM	--	45.097844	-98.419432	Middle James	10160006	Desktop	49.29	0.00	0.08
Spink	SDM-105	W_9_SP_448_DT	PEM	--	45.098405	-98.421383	Middle James	10160006	Desktop	49.39	149.96	1.04
Spink	SDM-105	W_9_SP_151_DT	PEM	--	45.099663	-98.427020	Middle James	10160006	Desktop	49.69	499.19	2.44
Spink	SDM-105	W_9_SP_150_DT	PEM	--	45.099580	-98.428929	Middle James	10160006	Desktop	49.79	177.01	1.22
Spink	SDM-105	W_9_SP_152_DT	PEM	--	45.099712	-98.443296	Middle James	10160006	Desktop	50.49	172.06	1.36
Spink	SDM-105	W_9_SP_879_DT	PEM	--	45.099927	-98.455995	Middle James	10160006	Desktop	51.11	197.26	1.40
Spink	SDM-105	W_9_SP_876_DT	PEM	--	45.105649	-98.465466	Middle James	10160006	Desktop	51.74	107.09	0.66
Spink	SDM-105	W_9_SP_154_DT	PEM	--	45.107006	-98.469977	Middle James	10160006	Desktop	52.00	22.43	0.22
Spink	SDM-105	W_9_SP_154_DT	PEM	--	45.107635	-98.470381	Middle James	10160006	Desktop	52.01	35.78	0.29
Spink	SDM-105	W_9_SP_875_DT	PEM	--	45.107694	-98.472429	Middle James	10160006	Desktop	52.12	0.00	0.02
Spink	SDM-105	W_10_SP_013_DT	PEM	--	45.107001	-98.487139	Snake	10160008	Desktop	52.84	0.00	0.08
Spink	SDM-105	W_9_SP_904_DT	PEM	--	45.109553	-98.496498	Snake	10160008	Desktop	53.34	222.82	1.52
Spink	SDM-105	W_9_SP_905_DT	PEM	--	45.110699	-98.498717	Snake	10160008	Desktop	53.48	0.00	0.93
Spink	SDM-105	W_9_SP_158_DT	PEM	--	45.115390	-98.512577	Snake	10160008	Desktop	54.32	486.52	3.31

Wetland Crossing Table												
County	Route ID	Feature ID	Feature Type	Feature Name	Latitude	Longitude	HUC 8 Watershed Name	HUC 8 Watershed No.	Survey or Desktop	Approx. MP	ESC Crossing Length (ft)	ESC Total Acres
Spink	SDM-105	W_9_SP_159_DT	PEM	--	45.115326	-98.514157	Snake	10160008	Desktop	54.39	114.88	0.64
Spink	SDM-105	W_9_SP_160_DT	PEM	--	45.117260	-98.531607	Snake	10160008	Desktop	55.26	332.64	2.38
Spink	SDM-105	W_9_SP_162_DT	PEM	--	45.118181	-98.540359	Snake	10160008	Desktop	55.69	286.22	1.94
Spink	SDM-105	W_9_SP_163_DT	PEM	--	45.119167	-98.549571	Snake	10160008	Desktop	56.14	457.41	3.13
Spink	SDM-105	W_9_SP_164_DT	PEM	--	45.120973	-98.565712	Snake	10160008	Desktop	56.94	110.02	0.71
Spink	SDM-105	W_9_SP_165_DT	PEM	--	45.121339	-98.569025	Snake	10160008	Desktop	57.11	565.67	3.85
Spink	SDM-105	W_9_SP_166_DT	PEM	--	45.125657	-98.582540	Snake	10160008	Desktop	57.87	543.07	3.65
Spink	SDM-105	W_9_SP_167_DT	PEM	--	45.128478	-98.587433	Snake	10160008	Desktop	58.18	148.37	0.94
Spink	SDM-105	W_9_SP_885_DT	PEM	--	45.128124	-98.587839	Snake	10160008	Desktop	58.19	0.00	0.05
Spink	SDM-105	W_9_SP_906_DT	PEM	--	45.131236	-98.591298	Snake	10160008	Desktop	58.47	20.68	0.14
Spink	SDM-105	W_9_SP_906_DT	PEM	--	45.131415	-98.591634	Snake	10160008	Desktop	58.49	80.38	0.61
Spink	SDM-105	W_9_SP_169_DT	PEM	--	45.135893	-98.598611	Snake	10160008	Desktop	58.95	605.30	4.05
Spink	SDM-105	W_9_SP_170_DT	PEM	--	45.140193	-98.618846	Snake	10160008	Desktop	60.03	87.87	0.14
Spink	SDM-105	W_9_SP_891_DT	PEM	--	45.151871	-98.626909	Snake	10160008	Desktop	61.01	0.00	0.00
Spink	SDM-105	W_9_SP_172_DT	PEM	--	45.157574	-98.624689	Snake	10160008	Desktop	61.47	23.85	0.21
Spink	SDM-105	W_9_SP_173_DT	PEM	--	45.157898	-98.624713	Snake	10160008	Desktop	61.49	23.76	0.13
Spink	SDM-105	W_9_SP_889_DT	PEM	--	45.159014	-98.626247	Snake	10160008	Desktop	61.57	0.00	0.08
Spink	SDM-105	W_9_SP_174_DT	PEM	--	45.159115	-98.625578	Snake	10160008	Desktop	61.57	0.00	0.14
Spink	SDM-105	W_10_SP_002_DT	PEM	--	45.163312	-98.620851	Snake	10160008	Desktop	61.93	0.00	0.04
Spink	SDM-105	W_10_SP_003_DT	PEM	--	45.168741	-98.616092	Snake	10160008	Desktop	62.37	268.19	1.65
Spink	SDM-105	W_10_SP_005_DT	PEM	--	45.180085	-98.606991	Snake	10160008	Desktop	63.29	294.28	1.34
Spink	SDM-105	W_10_SP_006_DT	PEM	--	45.182521	-98.605246	Snake	10160008	Desktop	63.48	337.32	2.20
Spink	SDM-105	W_10_SP_007_DT	PEM	--	45.185350	-98.605250	Snake	10160008	Desktop	63.68	166.03	1.31
Spink	SDM-105	W_10_SP_008_DT	PEM	--	45.193225	-98.604899	Snake	10160008	Desktop	64.22	224.31	1.12
Spink	SDM-105	W_10_SP_009_DT	PEM	--	45.197314	-98.606945	Snake	10160008	Desktop	64.43	1,214.43	5.91
Spink	SDM-105	W_10_SP_010_DT	PEM	--	45.200492	-98.611167	Snake	10160008	Desktop	64.84	234.56	2.57
Spink	SDM-105	W_10_SP_011_DT	PEM	--	45.201392	-98.612556	Snake	10160008	Desktop	64.94	650.93	2.81
Spink	SDM-105	W_10_SP_012_DT	PEM	--	45.208877	-98.613673	Snake	10160008	Desktop	65.45	2,933.01	20.40
Spink	SDM-105	W_9_SP_182_DT	PEM	--	45.221539	-98.614374	Snake	10160008	Desktop	66.34	365.53	2.28

Wetland Crossing Table												
County	Route ID	Feature ID	Feature Type	Feature Name	Latitude	Longitude	HUC 8 Watershed Name	HUC 8 Watershed No.	Survey or Desktop	Approx. MP	ESC Crossing Length (ft)	ESC Total Acres
Spink	SDM-105	W_9_SP_183_DT	PEM	--	45.222459	-98.614212	Snake	10160008	Desktop	66.40	0.00	0.09
Spink	SDM-105	W_9_SP_184_DT	PEM	--	45.235449	-98.615113	Snake	10160008	Desktop	67.29	33.52	0.10
Spink	SDM-105	W_9_SP_184_DT	PEM	--	45.235505	-98.614963	Snake	10160008	Desktop	67.30	90.06	0.18
Spink	SDM-105	W_9_SP_185_DT	PEM	--	45.239178	-98.615202	Snake	10160008	Desktop	67.55	23.88	0.12
Spink	SDM-105	W_9_SP_185_DT	PEM	--	45.239244	-98.615142	Snake	10160008	Desktop	67.56	15.34	0.12
Spink	SDT-209	W_9_SP_570_DT	PEM	--	44.921889	-98.504736	Middle James	10160006	Desktop	0.24	35.68	0.27
Spink	SDT-209	W_9_SP_884_DT	PEM	--	44.929213	-98.499039	Middle James	10160006	Desktop	0.92	17.86	0.12
Spink	SDT-209	W_9_SP_157_DT	PEM	--	44.929204	-98.498827	Middle James	10160006	Desktop	0.93	23.43	0.16
Spink	SDT-209	W_9_SP_156_DT	PEM	--	44.929179	-98.497974	Middle James	10160006	Desktop	0.98	4.46	0.05
Spink	SDT-209	W_9_SP_156_DT	PEM	--	44.929183	-98.497926	Middle James	10160006	Desktop	0.98	8.22	0.05
Spink	SDT-209	W_9_SP_156_DT	PEM	--	44.928737	-98.497549	Middle James	10160006	Desktop	0.99	0.00	0.00
Spink	SDT-209	W_9_SP_156_DT	PEM	--	44.928167	-98.497210	Middle James	10160006	Desktop	1.00	0.00	0.05
Spink	SDT-209	W_9_SP_156_DT	PEM	--	44.928209	-98.497166	Middle James	10160006	Desktop	1.00	0.00	0.02
Spink	SDT-209	W_9_SP_155_DT	PEM	--	44.928936	-98.492843	Middle James	10160006	Desktop	1.23	12.42	0.38
Spink	SDT-209	W_9_SP_255_DT	PEM	--	44.928819	-98.490089	Middle James	10160006	Desktop	1.36	0.00	0.33
Spink	SDT-209	W_9_SP_153_DT	PEM	--	44.929111	-98.487755	Middle James	10160006	Desktop	1.48	332.07	2.03
Spink	SDT-209	W_9_SP_572_DT	PEM	--	44.929002	-98.478149	Middle James	10160006	Desktop	1.94	149.29	0.76
Spink	SDT-209	W_9_SP_571_DT	PFO	--	44.928667	-98.477828	Middle James	10160006	Desktop	1.95	0.00	0.07
Spink	SDT-209	W_9_SP_573_DT	PEM	--	44.929383	-98.469447	Middle James	10160006	Desktop	2.37	0.00	0.53
Spink	SDT-209	W_9_SP_574_DT	PEM	--	44.929694	-98.464147	Middle James	10160006	Desktop	2.64	31.91	0.38
Spink	SDT-209	W_9_SP_575_DT	PEM	--	44.929811	-98.459625	Middle James	10160006	Desktop	2.82	68.68	0.91
Spink	SDT-209	W_9_SP_576_DT	PEM	--	44.930180	-98.457872	Middle James	10160006	Desktop	2.95	526.25	3.93
Spink	SDT-209	W3919SP097	PEM	--	44.931625	-98.442051	Middle James	10160006	Survey	3.73	12.79	0.15
Spink	SDT-209	W_12_SP_001_DT	PEM	--	44.938927	-98.409147	Middle James	10160006	Desktop	5.44	160.31	1.04
Spink	SDT-209	W_12_SP_002_DT	PEM	--	44.942992	-98.390108	Middle James	10160006	Desktop	6.45	231.14	1.13
Spink	SDT-209	W_12_SP_003_DT	PEM	--	44.943927	-98.387064	Middle James	10160006	Desktop	6.62	153.30	0.70
Spink	SDT-209	W2001SP054	PEM	--	44.944221	-98.387393	Middle James	10160006	Survey	6.62	9.34	0.26
Spink	SDT-209	W_9_SP_149_DT	PEM	--	44.946972	-98.379000	Middle James	10160006	Desktop	7.05	0.00	0.03
Spink	SDT-209	W_9_SP_149_DT	PEM	--	44.946962	-98.378406	Middle James	10160006	Desktop	7.08	0.00	0.08

Wetland Crossing Table												
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Spink	SDT-209	W2001SP053	PEM	--	44.946671	-98.377369	Middle James	10160006	Survey	7.13	402.80	2.55
Spink	SDT-209	W_9_SP_147_DT	PEM	--	44.946265	-98.375781	Middle James	10160006	Desktop	7.19	234.35	1.42
Spink	SDT-209	W2001SP052	PEM	--	44.946911	-98.374774	Middle James	10160006	Survey	7.26	0.00	0.05
Spink	SDT-209	W_9_SP_877_DT	PEM	--	44.946808	-98.374171	Middle James	10160006	Desktop	7.28	0.00	0.58
Spink	SDT-209	W_9_SP_148_DT	PEM	--	44.946455	-98.374083	Middle James	10160006	Desktop	7.30	0.00	0.05
Spink	SDT-209	W_9_SP_145_DT	PEM	--	44.946760	-98.372733	Middle James	10160006	Desktop	7.37	0.00	0.52
Spink	SDT-209	W_9_SP_143_DT	PEM	--	44.946710	-98.370399	Middle James	10160006	Desktop	7.48	0.00	0.07
Spink	SDT-209	W_9_SP_882_DT	PEM	--	44.946234	-98.370439	Middle James	10160006	Desktop	7.48	31.31	0.16
Spink	SDT-209	W_9_SP_142_DT	PEM	--	44.946058	-98.370149	Middle James	10160006	Desktop	7.49	0.00	0.01
Spink	SDT-209	W_9_SP_141_DT	PEM	--	44.946322	-98.358793	Middle James	10160006	Desktop	8.05	401.83	2.61
Spink	SDT-209	W2023SP119	PEM	--	44.946175	-98.357033	Middle James	10160006	Survey	8.12	401.88	1.76
Spink	SDT-209	W_9_SP_881_DT	PEM	--	44.946539	-98.356846	Middle James	10160006	Desktop	8.13	0.00	0.05
Spink	SDT-209	W2023SP118	PEM	--	44.948033	-98.351033	Middle James	10160006	Survey	8.45	486.34	1.31
Spink	SDT-209	W2023SP117	PEM	--	44.951337	-98.342794	Middle James	10160006	Survey	8.93	35.66	0.17
Spink	SDT-209	W2023SP116	PEM	--	44.951811	-98.342245	Middle James	10160006	Survey	8.96	0.00	0.12
Spink	SDT-209	W2023SP115	PEM	--	44.952344	-98.341771	Middle James	10160006	Survey	9.00	0.00	0.05
Spink	SDT-209	W2023SP115	PEM	--	44.952420	-98.340297	Middle James	10160006	Survey	9.07	460.63	2.82
Spink	SDT-209	W2015SP050	PEM	--	44.956805	-98.325467	Middle James	10160006	Survey	9.87	37.78	0.21
Spink	SDT-209	W2015SP050	PEM	--	44.957220	-98.324394	Middle James	10160006	Survey	9.94	0.00	0.16
Spink	SDT-209	W2015SP051	PEM	--	44.957410	-98.321978	Middle James	10160006	Survey	10.04	0.00	0.10
Spink	SDT-209	W2015SP052	PEM	--	44.958140	-98.313073	Middle James	10160006	Survey	10.48	0.00	0.11
Spink	SDT-209	W2015SP048	PEM	--	44.959264	-98.296708	Middle James	10160006	Survey	11.29	237.94	1.87
Spink	SDT-209	W2015SP049	PEM	--	44.959566	-98.293076	Middle James	10160006	Survey	11.48	277.86	1.83
Sully	SDL-320	W_9_SU_001_DT	PEM	--	44.692376	-100.061852	Lower Lake Oahe	10130105	Desktop	0.00	0.00	0.11
Sully	SDL-320	W2007SU025	PEM	--	44.692545	-100.061881	Lower Lake Oahe	10130105	Survey	0.00	0.00	0.04
Sully	SDL-320	W2007SU027	PEM	--	44.693015	-100.054415	Lower Lake Oahe	10130105	Survey	0.29	0.00	0.14
Sully	SDL-320	W3919SU055	PEM	--	44.721713	-99.937112	Medicine Knoll	10140103	Survey	6.66	454.15	0.22
Sully	SDL-320	W3919SU057	PEM	--	44.722291	-99.909428	Medicine Knoll	10140103	Survey	8.03	26.36	0.14
Sully	SDL-320	W_2_SU_126_DT	PEM	--	44.739080	-99.758013	Medicine Knoll	10140103	Desktop	15.61	0.00	0.01

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Sully	SDL-320	W2007SU032	PEM	--	44.738434	-99.757762	Medicine Knoll	10140103	Survey	15.62	11.41	0.11
Sully	SDL-320	W2015SU084	PEM	--	44.746020	-99.717054	Medicine Knoll	10140103	Survey	17.68	358.42	2.80
Sully	SDL-320	W2015SU084	PEM	--	44.746091	-99.715509	Medicine Knoll	10140103	Survey	17.76	411.22	2.22
Turner	SDM-104	W2004LI136	PEM	--	43.458610	-96.922349	Lower Big Sioux	10170203	Survey	50.81	62.36	0.74
Turner	SDM-104	W2023TU034	PEM	--	43.463345	-96.925368	Lower Big Sioux	10170203	Survey	51.19	0.00	0.01
Turner	SDM-104	W_9_TU_260_DT	PEM	--	43.467939	-96.935469	Lower Big Sioux	10170203	Desktop	51.92	0.00	0.29
Turner	SDM-104	W_9_TU_138_DT_USACE	PEM	--	43.476296	-96.934194	Lower Big Sioux	10170203	Desktop	52.49	24.76	0.13
Turner	SDM-104	W_9_TU_139_DT_USACE	PEM	--	43.478356	-96.934233	Lower Big Sioux	10170203	Desktop	52.63	200.53	0.87
Turner	SDM-104	W_2_TU_359_DT	PEM	--	43.486483	-96.934868	Lower Big Sioux	10170203	Desktop	53.19	0.00	0.00
Turner	SDM-104	W2005TU183	PEM	--	43.486583	-96.934531	Lower Big Sioux	10170203	Survey	53.19	44.96	0.50
Turner	SDM-104	W_9_TU_259_DT	PEM	--	43.488144	-96.932900	Lower Big Sioux	10170203	Desktop	53.34	124.92	0.93
Turner	SDM-104	W_9_TU_257_DT	PEM	--	43.490900	-96.930512	Lower Big Sioux	10170203	Desktop	53.58	134.79	1.18
Turner	SDM-104	W_9_TU_873_DT	PEM	--	43.491437	-96.931571	Lower Big Sioux	10170203	Desktop	53.63	0.00	0.08
Turner	SDM-104	W_9_TU_872_DT	PEM	--	43.492671	-96.931741	Lower Big Sioux	10170203	Desktop	53.72	64.76	0.50
Turner	SDM-104	W_9_TU_871_DT	PEM	--	43.494224	-96.932949	Lower Big Sioux	10170203	Desktop	53.83	669.63	4.06
Turner	SDM-104	W2005TU185	PEM	--	43.497552	-96.935309	Lower Big Sioux	10170203	Survey	54.10	48.40	0.15
Turner	SDT-212	W_12_TU_001_DT	PEM	--	43.440456	-97.278703	Vermillion	10170102	Desktop	0.25	61.09	0.26
Turner	SDT-212	W_12_TU_001_DT	PEM	--	43.440616	-97.278779	Vermillion	10170102	Desktop	0.26	45.75	0.32
Turner	SDT-212	W_10_TU_006_DT	PEM	--	43.444005	-97.277811	Vermillion	10170102	Desktop	0.51	208.89	1.91
Turner	SDT-212	W_10_TU_002_DT	PEM	--	43.447202	-97.276441	Vermillion	10170102	Desktop	0.73	318.16	1.92
Turner	SDT-212	W_10_TU_007_DT	PEM	--	43.450356	-97.273010	Vermillion	10170102	Desktop	1.02	56.35	0.42
Turner	SDT-212	W_10_TU_003_DT	PEM	--	43.451953	-97.252191	Vermillion	10170102	Desktop	2.11	5.48	0.10
Turner	SDT-212	W_10_TU_008_DT	PEM	--	43.452481	-97.252169	Vermillion	10170102	Desktop	2.11	0.00	0.19
Turner	SDT-212	W_10_TU_003_DT	PEM	--	43.451991	-97.252069	Vermillion	10170102	Desktop	2.11	5.65	0.09
Turner	SDT-212	W_10_TU_004_DT	PEM	--	43.452135	-97.245424	Vermillion	10170102	Desktop	2.45	76.19	0.36
Turner	SDT-212	W_10_TU_005_DT	PEM	--	43.451996	-97.243128	Vermillion	10170102	Desktop	2.57	31.95	0.24
Turner	SDT-212	W_9_TU_250_DT	PEM	--	43.451906	-97.234092	Vermillion	10170102	Desktop	2.99	0.00	0.04
Turner	SDT-212	W3112TU065	PEM	--	43.454222	-97.231410	Vermillion	10170102	Survey	3.19	0.00	0.10
Turner	SDT-212	W_9_TU_013_DT	PEM	--	43.455212	-97.228665	Vermillion	10170102	Desktop	3.35	153.01	1.27

Wetland Crossing Table												
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Turner	SDT-212	W3112TU066	PEM	--	43.458768	-97.221486	Vermillion	10170102	Survey	3.79	11.14	0.08
Turner	SDT-212	W_9_TU_016_DT	PEM	--	43.460811	-97.218822	Vermillion	10170102	Desktop	3.97	564.86	1.54
Turner	SDT-212	W_9_TU_233_DT	PEM	--	43.466692	-97.211063	Vermillion	10170102	Desktop	4.56	130.08	0.41
Turner	SDT-212	W_9_TU_020_DT	PEM	--	43.467912	-97.202221	Vermillion	10170102	Desktop	5.02	149.65	0.88
Turner	SDT-212	W_9_TU_021_DT	PEM	--	43.467998	-97.199778	Vermillion	10170102	Desktop	5.14	74.27	1.00
Turner	SDT-212	W_9_TU_022_DT	PEM	--	43.468636	-97.198018	Vermillion	10170102	Desktop	5.24	0.00	0.64
Turner	SDT-212	W_9_TU_023_DT	PEM	--	43.468878	-97.192055	Vermillion	10170102	Desktop	5.53	305.38	2.03
Turner	SDT-212	W_9_TU_024_DT	PEM	--	43.469238	-97.189030	Vermillion	10170102	Desktop	5.68	15.81	0.18
Turner	SDT-212	W_9_TU_018_DT	PEM	--	43.469928	-97.183704	Vermillion	10170102	Desktop	5.96	24.65	0.15
Turner	SDT-212	W_9_TU_026_DT	PEM	--	43.472665	-97.168583	Vermillion	10170102	Desktop	6.74	0.00	0.89
Turner	SDT-212	W_9_TU_027_DT	PEM	--	43.472077	-97.168158	Vermillion	10170102	Desktop	6.76	0.00	0.14
Turner	SDT-212	W_9_TU_028_DT	PEM	--	43.474309	-97.158490	Vermillion	10170102	Desktop	7.31	180.64	0.73
Turner	SDT-212	W_9_TU_030_DT	PSS	--	43.476805	-97.148523	Vermillion	10170102	Desktop	7.85	41.45	0.35
Turner	SDT-212	W_9_TU_100_DT	PEM	--	43.483029	-97.120148	Vermillion	10170102	Desktop	9.38	174.00	0.79
Turner	SDT-212	W_9_TU_034_DT	PEM	--	43.483458	-97.118868	Vermillion	10170102	Desktop	9.45	0.00	0.33
Turner	SDT-212	W_9_TU_234_DT	PEM	--	43.484991	-97.110434	Vermillion	10170102	Desktop	9.91	0.00	0.16
Turner	SDT-212	W_9_TU_037_DT	PEM	--	43.484621	-97.109357	Vermillion	10170102	Desktop	9.94	0.00	1.06
Turner	SDT-212	W_9_TU_040_DT	PSS	--	43.485884	-97.095423	Vermillion	10170102	Desktop	10.66	75.77	0.54
Turner	SDT-212	W_9_TU_042_DT	PEM	--	43.486674	-97.088508	Vermillion	10170102	Desktop	11.01	267.50	1.50
Turner	SDT-212	W_9_TU_041_DT	PEM	--	43.487248	-97.088306	Vermillion	10170102	Desktop	11.03	0.00	0.00
Turner	SDT-212	W_9_TU_032_DT	PEM	--	43.487225	-97.086505	Vermillion	10170102	Desktop	11.16	951.18	2.30
Turner	SDT-212	W_9_TU_133_DT	PEM	--	43.487326	-97.083941	Vermillion	10170102	Desktop	11.25	37.13	0.25
Turner	SDT-212	W_9_TU_044_DT	PEM	--	43.487570	-97.083367	Vermillion	10170102	Desktop	11.28	82.06	0.19
Turner	SDT-212	W3919TU340	PEM	--	43.488254	-97.078874	Vermillion	10170102	Survey	11.50	11.85	0.31
Turner	SDT-212	W_9_TU_047_DT	PEM	--	43.490563	-97.067607	Vermillion	10170102	Desktop	12.14	0.00	0.01
Turner	SDT-212	W_9_TU_049_DT	PEM	--	43.491757	-97.063134	Vermillion	10170102	Desktop	12.38	0.00	0.46
Turner	SDT-212	W_9_TU_050_DT	PEM	--	43.491875	-97.062214	Vermillion	10170102	Desktop	12.43	0.00	0.36
Turner	SDT-212	W_9_TU_051_DT	PEM	--	43.492320	-97.058670	Vermillion	10170102	Desktop	12.60	119.02	1.01
Turner	SDT-212	W_9_TU_052_DT	PEM	--	43.492249	-97.057089	Vermillion	10170102	Desktop	12.66	0.00	0.60

Wetland Crossing Table												
County	Route ID	Feature ID	Feature Type	Feature Name	Latitude	Longitude	HUC 8 Watershed Name	HUC 8 Watershed No.	Survey or Desktop	Approx. MP	ESC Crossing Length (ft)	ESC Total Acres
Turner	SDT-212	W_9_TU_847_DT	PEM	--	43.493321	-97.052730	Vermillion	10170102	Desktop	12.91	25.04	0.19
Turner	SDT-212	W_9_TU_848_DT	PEM	--	43.494426	-97.048256	Vermillion	10170102	Desktop	13.15	29.98	0.32
Turner	SDT-212	W_9_TU_848_DT	PEM	--	43.494223	-97.047880	Vermillion	10170102	Desktop	13.17	47.35	0.41
Turner	SDT-212	W_9_TU_057_DT	PEM	--	43.494515	-97.035442	Vermillion	10170102	Desktop	13.79	398.67	2.57
Turner	SDT-212	W3112TU067	PEM	--	43.494922	-97.034386	Vermillion	10170102	Survey	13.83	9.59	0.07
Turner	SDT-212	W3112TU067	PEM	--	43.494872	-97.034354	Vermillion	10170102	Survey	13.83	22.68	0.11
Turner	SDT-212	W3112TU067	PEM	--	43.494122	-97.034465	Vermillion	10170102	Survey	13.84	0.00	0.00
Turner	SDT-212	W_9_TU_059_DT	PEM	--	43.494957	-97.029361	Vermillion	10170102	Desktop	14.10	0.00	0.19
Turner	SDT-212	W_9_TU_060_DT	PEM	--	43.494413	-97.025441	Vermillion	10170102	Desktop	14.24	7.86	0.68
Turner	SDT-212	W_9_TU_206_DT	PEM	--	43.494496	-97.022625	Vermillion	10170102	Desktop	14.43	35.96	0.42
Turner	SDT-212	W_9_TU_064_DT	PEM	--	43.495554	-97.016385	Vermillion	10170102	Desktop	14.82	0.00	0.55
Turner	SDT-212	W_9_TU_065_DT	PEM	--	43.498047	-97.013802	Lower Big Sioux	10170203	Desktop	15.01	0.00	0.28
Turner	SDT-212	W_9_TU_069_DT	PEM	--	43.499455	-97.011865	Lower Big Sioux	10170203	Desktop	15.15	46.33	0.85
Turner	SDT-409	W_9_TU_236_DT	PEM	--	43.373408	-96.954109	Vermillion	10170102	Desktop	0.35	107.93	0.22
Turner	SDT-409	W_9_TU_237_DT	PEM	--	43.374182	-96.954328	Vermillion	10170102	Desktop	0.41	0.00	0.00
Turner	SDT-409	W_9_TU_238_DT	PEM	--	43.374534	-96.953250	Vermillion	10170102	Desktop	0.45	26.94	0.20
Turner	SDT-409	W_9_TU_239_DT	PEM	--	43.376769	-96.950589	Vermillion	10170102	Desktop	0.65	15.60	0.70
Turner	SDT-409	W_9_TU_241_DT	PFO	--	43.377699	-96.944945	Vermillion	10170102	Desktop	0.96	145.79	0.16
Turner	SDT-409	W_9_TU_240_DT	PFO	--	43.378079	-96.944163	Vermillion	10170102	Desktop	0.99	0.00	0.05
Turner	SDT-409	W_9_TU_242_DT	PEM	--	43.378075	-96.941971	Vermillion	10170102	Desktop	1.09	0.00	0.26
Turner	SDT-409	W_9_TU_243_DT	PEM	--	43.378636	-96.937379	Vermillion	10170102	Desktop	1.34	0.00	0.00
Turner	SDT-409	W_9_TU_243_DT	PEM	--	43.378068	-96.936897	Vermillion	10170102	Desktop	1.36	32.10	0.29
Turner	SDT-409	W_9_TU_244_DT	PEM	--	43.377892	-96.934992	Vermillion	10170102	Desktop	1.46	0.00	0.21
Turner	SDT-409	W_9_TU_245_DT	PEM	--	43.377766	-96.933940	Vermillion	10170102	Desktop	1.52	0.00	0.08
Turner	SDT-409	W_9_TU_246_DT	PEM	--	43.378129	-96.932945	Vermillion	10170102	Desktop	1.56	139.44	0.95
Turner	SDT-409	W_9_TU_248_DT	PEM	--	43.377743	-96.930989	Vermillion	10170102	Desktop	1.67	0.00	0.10
Turner	SDT-409	W_9_TU_247_DT	PEM	--	43.378169	-96.929883	Vermillion	10170102	Desktop	1.72	69.37	0.45
Turner	SDT-409	W_9_TU_249_DT	PEM	--	43.377910	-96.927244	Vermillion	10170102	Desktop	1.84	208.65	0.69
Union	IAL-510	W_9_UN_004_DT	PEM	--	43.076555	-96.469742	Lower Big Sioux	10170203	Desktop	2.23	0.00	0.13

Wetland Crossing Table												
County	Route ID	Feature ID	Feature Type	Feature Name	Latitude	Longitude	HUC 8 Watershed Name	HUC 8 Watershed No.	Survey or Desktop	Approx. MP	ESC Crossing Length (ft)	ESC Total Acres
Union	IAL-510	W_9_UN_002_DT	PEM	--	43.076797	-96.467794	Lower Big Sioux	10170203	Desktop	2.33	0.00	0.18

Appendix B – Waterbody Crossing Table

Waterbody Crossing Table												
County	Route ID	Feature ID	Feature Type	Feature Name	Latitude	Longitude	HUC 8 Watershed Name	HUC 8 Watershed No.	Survey or Desktop	Approx. MP	ESC Crossing Length (ft)	ESC Total Acres
Beadle	SDM-104	S2015BE008	Ephemeral	Trib. to Middle Pearl Creek	44.530156	-97.858571	Middle James	10160006	Survey	148.78	7.52	0.06
Beadle	SDM-104	S2015BE009	Ephemeral	Trib. to Pearl Creek	44.535195	-97.875199	Middle James	10160006	Survey	149.67	0.00	0.01
Beadle	SDM-104	S2015BE009	Ephemeral	Trib. to Pearl Creek	44.535154	-97.877102	Middle James	10160006	Survey	149.75	8.01	0.09
Beadle	SDM-104	S2015BE010	Ephemeral	Trib. to Pearl Creek	44.541597	-97.884789	Middle James	10160006	Survey	150.36	9.94	0.05
Beadle	SDM-104	S_9_BE_001_DT	Ephemeral	Trib. to Pearl Creek	44.541330	-97.885216	Middle James	10160006	Desktop	150.36	0.00	0.02
Beadle	SDM-104	S2015BE011	Natural Pond	--	44.543981	-97.887444	Middle James	10160006	Survey	150.58	20.78	0.17
Beadle	SDM-104	S_10_BE_001_DT	Ephemeral	Trib. to Pearl Creek	44.544358	-97.884007	Middle James	10160006	Desktop	150.60	0.00	0.02
Beadle	SDM-104	S2014BE009	Ephemeral	Trib. to Pearl Creek	44.559618	-97.916249	Middle James	10160006	Survey	152.56	4.17	0.03
Beadle	SDM-105	S2022BE002	Perennial	Shue Creek	44.587349	-97.962494	Middle James	10160006	Survey	3.07	13.30	0.10
Beadle	SDM-105	S2022BE003	Perennial	Trib. to Shue Creek	44.599096	-97.978180	Middle James	10160006	Survey	4.29	34.32	0.15
Beadle	SDT-207	S2005BE025	Perennial	Trib. to James River	44.379690	-98.253193	Middle James	10160006	Survey	0.19	4.03	0.03
Beadle	SDT-207	S2002BE077	Ephemeral	Trib. to James River	44.402515	-98.254767	Middle James	10160006	Survey	2.22	5.00	0.04
Beadle	SDT-207	S2005BE021	Ephemeral	Trib. to James River	44.419322	-98.234477	Middle James	10160006	Survey	3.94	4.00	0.03
Beadle	SDT-207	S2005BE022	Ephemeral	Trib. to James River	44.419685	-98.228073	Middle James	10160006	Survey	4.25	0.00	0.03
Beadle	SDT-207	S2005BE022	Ephemeral	Trib. to James River	44.419309	-98.226975	Middle James	10160006	Survey	4.30	7.09	0.05
Beadle	SDT-207	S_2_BE_071_DT	Ephemeral	Trib. to James River	44.418948	-98.226396	Middle James	10160006	Desktop	4.34	0.00	0.00
Beadle	SDT-207	S2005BE023	Manmade Pond	--	44.419039	-98.224898	Middle James	10160006	Survey	4.41	0.00	0.06
Beadle	SDT-207	S2002BE081	Ephemeral	Trib. to James River	44.437866	-98.214163	Middle James	10160006	Survey	5.90	0.00	0.02
Beadle	SDT-207	S2007BE030	Natural Pond	--	44.445744	-98.181125	Middle James	10160006	Survey	7.71	0.00	0.14
Beadle	SDT-207	S2007BE029	Intermittent	Trib. to James River	44.467827	-98.132832	Middle James	10160006	Survey	10.63	12.75	0.10
Beadle	SDT-207	S2008BE002	Perennial	James River	44.470275	-98.127431	Middle James	10160006	Survey	10.98	1,996.67	13.44
Beadle	SDT-207	S2008BE001	Ephemeral	Trib. to James River	44.472437	-98.123156	Middle James	10160006	Survey	11.23	0.00	0.01
Beadle	SDT-207	S2008BE003	Ephemeral	Trib. to James River	44.475806	-98.113356	Middle James	10160006	Survey	11.77	5.51	0.04
Beadle	SDT-207	S2008BE004	Ephemeral	Trib. to James River	44.475871	-98.113146	Middle James	10160006	Survey	11.78	5.50	0.04
Beadle	SDT-207	S2008BE005	Ephemeral	Trib. to James River	44.477993	-98.106096	Middle James	10160006	Survey	12.16	8.08	0.06
Beadle	SDT-207	S2005BE020	Perennial	Shue Creek	44.518479	-98.006457	Middle James	10160006	Survey	18.01	70.99	0.57
Beadle	SDT-207	S2015BE031	Manmade Pond	--	44.526381	-97.990780	Middle James	10160006	Survey	18.96	0.00	0.03
Beadle	SDT-207	S2005BE019	Ephemeral	Trib. to Shue Creek	44.535178	-97.967637	Middle James	10160006	Survey	20.25	0.00	0.01
Beadle	SDT-207	S2005BE019	Ephemeral	Trib. to Shue Creek	44.535349	-97.967004	Middle James	10160006	Survey	20.29	0.00	0.02
Beadle	SDT-207	S2002BE082	Ephemeral	Trib. to Pearl Creek	44.559128	-97.942290	Middle James	10160006	Survey	22.27	4.02	0.29

Waterbody Crossing Table												
County	Route ID	Feature ID	Feature Type	Feature Name	Latitude	Longitude	HUC 8 Watershed Name	HUC 8 Watershed No.	Survey or Desktop	Approx. MP	ESC Crossing Length (ft)	ESC Total Acres
Beadle	SDT-207	S2002BE082	Ephemeral	Trib. to Pearl Creek	44.559078	-97.918936	Middle James	10160006	Survey	23.77	0.00	0.05
Beadle	SDT-208	S2002BE058	Ephemeral	Trib. to Pearl Creek	44.561182	-97.862543	Middle James	10160006	Survey	49.73	0.00	0.02
Beadle	SDT-208	S2002BE058	Ephemeral	Trib. to Pearl Creek	44.560529	-97.863541	Middle James	10160006	Survey	49.77	2.64	0.02
Beadle	SDT-208	S2006BE035	Ephemeral	Trib. to Pearl Creek	44.558198	-97.877220	Middle James	10160006	Survey	50.50	1.02	0.01
Beadle	SDT-208	S2006BE036	Ephemeral	Trib. to Pearl Creek	44.558616	-97.883020	Middle James	10160006	Survey	50.79	1.56	0.01
Brookings	SDL-513	S_9_BO_008_DT	Perennial	Deer Creek	44.256195	-96.725441	Middle Big Sioux Coteau	10170202	Desktop	3.79	51.51	0.27
Brookings	SDL-513	S_9_BO_008_DT	Perennial	Deer Creek	44.255754	-96.726109	Middle Big Sioux Coteau	10170202	Desktop	3.83	0.00	0.01
Brookings	SDL-513	S_9_BO_020_DT	Perennial	Big Sioux River	44.232533	-96.811746	Middle Big Sioux Coteau	10170202	Desktop	8.69	375.02	1.42
Brookings	SDL-513	S_9_BO_021_DT	Perennial	Trib. to Lake Campbell Outlet	44.232673	-96.836211	Middle Big Sioux Coteau	10170202	Desktop	9.92	119.68	0.86
Brookings	SDL-513	S_9_BO_010_DT	Ephemeral	Trib. to Big Sioux River	44.226243	-96.875425	Middle Big Sioux Coteau	10170202	Desktop	11.97	2.00	0.01
Brookings	SDL-513	S_9_BO_009_DT	Intermittent	Trib. to Battle Creek	44.200775	-96.883519	Middle Big Sioux Coteau	10170202	Desktop	14.01	14.37	0.07
Brown	NDT-211	S2007BR033	Perennial	Webber Gulch	45.935613	-98.694609	Elm	10160004	Survey	90.00	161.60	0.94
Brown	NDT-211	S2004BR032	Ephemeral	Trib. to Elm River	45.931662	-98.704494	Elm	10160004	Survey	90.62	0.00	0.00
Brown	NDT-211	S2004BR032	Ephemeral	Trib. to Elm River	45.931019	-98.704480	Elm	10160004	Survey	90.67	0.00	0.05
Brown	SDL-515	S_10_BR_001_DT	Ephemeral	Trib. to James River	45.459312	-98.148067	Mud	10160005	Desktop	0.63	11.09	0.07
Brown	SDL-515	S_10_BR_002_DT	Intermittent	Trib. to James River	45.461056	-98.202249	Upper James	10160003	Desktop	3.37	12.66	0.08
Brown	SDL-515	S_9_BR_002_DT	Perennial	James River	45.398822	-98.283175	Upper James	10160003	Desktop	10.16	106.44	0.79
Brown	SDL-515	S_9_BR_902_DT	Intermittent	Trib. to Moccasin Creek	45.400179	-98.310538	Upper James	10160003	Desktop	11.51	11.65	0.08
Brown	SDL-515	S_9_BR_003_DT	Intermittent	Trib. to Moccasin Creek	45.400208	-98.331312	Upper James	10160003	Desktop	12.52	24.78	0.12
Brown	SDL-515	S_9_BR_004_DT	Intermittent	Trib. to Moccasin Creek	45.400257	-98.337880	Upper James	10160003	Desktop	12.84	29.84	0.22
Brown	SDL-515	S_9_BR_005_DT	Intermittent	Trib. to Moccasin Creek	45.400289	-98.356133	Upper James	10160003	Desktop	13.72	12.50	0.09
Brown	SDL-515	S_12_BR_001_DT	Perennial	Moccasin Creek	45.398558	-98.483938	Upper James	10160003	Desktop	20.09	0.00	0.21
Brown	SDL-515	S_9_BR_006_DT	Perennial	Moccasin Creek	45.398755	-98.484519	Upper James	10160003	Desktop	20.12	260.92	1.09
Brown	SDL-515	S_9_BR_007_DT	Intermittent	Trib. to Snake Creek	45.440208	-98.556459	Snake	10160008	Desktop	25.82	15.45	0.12
Brown	SDM-105	S2001BR008	Perennial	Snake Creek	45.352934	-98.717969	Snake	10160008	Survey	78.23	17.82	0.13
Brown	SDT-210	S2015BR023	Manmade Pond	--	45.458631	-98.538720	Upper James	10160003	Survey	0.06	0.00	0.45
Brown	SDT-210	S2244BR007	Manmade Pond	--	45.438211	-98.576513	Snake	10160008	Survey	2.82	0.00	0.01
Brown	SDT-210	S_9_BR_010_DT	Pond	--	45.436078	-98.634108	Snake	10160008	Desktop	5.64	0.00	0.09
Brown	SDT-210	S2015BR022	Intermittent	Trib. to Snake Creek	45.432336	-98.648138	Snake	10160008	Survey	6.41	78.71	0.44
Brown	SDT-210	S_12_BR_002_DT	Ephemeral	Trib. to Snake Creek	45.431677	-98.656409	Snake	10160008	Desktop	6.87	5.00	0.03

Waterbody Crossing Table												
County	Route ID	Feature ID	Feature Type	Feature Name	Latitude	Longitude	HUC 8 Watershed Name	HUC 8 Watershed No.	Survey or Desktop	Approx. MP	ESC Crossing Length (ft)	ESC Total Acres
Brown	SDT-210	S_12_BR_003_DT	Ephemeral	Trib. to Snake Creek	45.431570	-98.656411	Snake	10160008	Desktop	6.88	5.00	0.03
Brown	SDT-210	S_12_BR_004_DT	Intermittent	Snake Creek	45.416667	-98.692057	Snake	10160008	Desktop	9.10	7.18	0.13
Clark	SDT-208	S2002CL059	Natural Pond	--	44.684430	-97.509490	Middle Big Sioux Coteau	10170202	Survey	28.74	153.76	1.28
Clark	SDT-208	S2014CL017	Natural Pond	--	44.674429	-97.544600	Middle Big Sioux Coteau	10170202	Survey	30.68	269.04	1.31
Clark	SDT-208	S2014CL016	Natural Pond	--	44.673752	-97.545395	Middle Big Sioux Coteau	10170202	Survey	30.75	336.77	1.48
Clark	SDT-208	S2007CL010	Natural Pond	--	44.655289	-97.580500	Middle Big Sioux Coteau	10170202	Survey	32.99	0.00	0.11
Clark	SDT-208	S2006CL012	Intermittent	Trib. to Redstone Creek	44.654240	-97.580842	Middle Big Sioux Coteau	10170202	Survey	33.03	13.16	0.07
Clark	SDT-208	S2004CL028	Intermittent	Trib. to Redstone Creek	44.614753	-97.639235	Middle Big Sioux Coteau	10170202	Survey	37.12	0.00	0.01
Clark	SDT-208	S2004CL028	Intermittent	Trib. to Redstone Creek	44.614353	-97.639170	Middle Big Sioux Coteau	10170202	Survey	37.14	18.10	0.16
Clark	SDT-208	S2004CL029	Natural Pond	--	44.606193	-97.650939	Middle Big Sioux Coteau	10170202	Survey	37.94	0.00	0.48
Clark	SDT-208	S2004CL030	Ephemeral	Trib. to Redstone Creek	44.581341	-97.686779	Middle James	10160006	Survey	40.77	2.81	0.01
Clark	SDT-208	S2006CL039	Natural Pond	--	44.579160	-97.699331	Middle James	10160006	Survey	41.42	288.78	2.36
Clark	SDT-208	S_2_CL_068_DT	Ephemeral	Redstone Creek	44.571160	-97.765947	Middle James	10160006	Desktop	44.83	0.00	0.00
Clark	SDT-208	S2006CL026	Ephemeral	Redstone Creek	44.571588	-97.766287	Middle James	10160006	Survey	44.84	1.04	0.01
Clark	SDT-208	S2006CL042	Ephemeral	Trib. to Pearl Creek	44.570256	-97.800029	Middle James	10160006	Survey	46.50	0.00	0.03
Clark	SDT-208	S2006CL037	Ephemeral	Trib. to Pearl Creek	44.565526	-97.823700	Middle James	10160006	Survey	47.74	1.21	0.02
Clark	SDT-208	S2006CL038	Ephemeral	Trib. to Pearl Creek	44.565092	-97.825872	Middle James	10160006	Survey	47.85	2.00	0.01
Codington	SDL-514	S_9_CD_002_DT	Intermittent	Trib. to Willow Creek	45.051703	-96.888172	Upper Big Sioux	10170201	Desktop	29.39	14.18	0.11
Codington	SDL-514	S_9_CD_003_DT	Intermittent	Trib. to Willow Creek	45.046759	-96.890167	Upper Big Sioux	10170201	Desktop	29.77	14.38	0.12
Codington	SDL-514	S_9_CD_004_DT	Intermittent	Trib. to Willow Creek	45.037935	-96.890410	Upper Big Sioux	10170201	Desktop	30.38	9.35	0.07
Codington	SDL-514	S_9_CD_005_DT	Intermittent	Trib. to Willow Creek	45.027260	-96.892352	Upper Big Sioux	10170201	Desktop	31.14	6.21	0.08
Codington	SDL-514	S_9_CD_006_DT	Intermittent	Trib. to Willow Creek	45.020430	-96.892538	Upper Big Sioux	10170201	Desktop	31.60	4.46	0.02
Codington	SDL-514	S_9_CD_047_DT	Ephemeral	Trib. to Willow Creek	44.951378	-96.951801	Upper Big Sioux	10170201	Desktop	38.25	4.60	0.03
Codington	SDL-514	S_9_CD_047_DT	Ephemeral	Trib. to Willow Creek	44.950730	-96.951288	Upper Big Sioux	10170201	Desktop	38.29	0.00	0.00
Codington	SDL-514	S_9_CD_048_DT	Perennial	Willow Creek	44.947024	-96.952620	Upper Big Sioux	10170201	Desktop	38.54	0.00	0.07
Codington	SDL-514	S_9_CD_012_DT	Perennial	Willow Creek	44.945061	-96.956062	Upper Big Sioux	10170201	Desktop	38.77	22.73	0.19
Codington	SDL-514	S_10_CD_014_DT	Pond	--	44.929899	-96.961722	Upper Big Sioux	10170201	Desktop	39.90	0.00	0.32
Codington	SDL-514	S_10_CD_013_DT	Ephemeral	Trib. to Willow Creek	44.928947	-96.962141	Upper Big Sioux	10170201	Desktop	39.95	5.21	0.06
Codington	SDL-514	S_10_CD_012_DT	Ephemeral	Trib. to Willow Creek	44.900315	-96.973354	Upper Big Sioux	10170201	Desktop	42.38	0.00	0.01
Codington	SDL-514	S_10_CD_011_DT	Intermittent	Trib. to Willow Creek	44.899797	-96.973416	Upper Big Sioux	10170201	Desktop	42.38	379.11	0.12

Waterbody Crossing Table												
County	Route ID	Feature ID	Feature Type	Feature Name	Latitude	Longitude	HUC 8 Watershed Name	HUC 8 Watershed No.	Survey or Desktop	Approx. MP	ESC Crossing Length (ft)	ESC Total Acres
Codington	SDL-514	S_10_CD_010_DT	Ephemeral	Trib. to Willow Creek	44.898446	-96.973689	Upper Big Sioux	10170201	Desktop	42.50	6.12	0.05
Codington	SDL-514	S_10_CD_009_DT	Pond	--	44.897570	-96.973182	Upper Big Sioux	10170201	Desktop	42.56	0.00	0.07
Codington	SDL-514	S_9_CD_026_DT	Intermittent	Trib. to Big Sioux River	44.885913	-96.975475	Upper Big Sioux	10170201	Desktop	43.41	2.15	0.02
Codington	SDL-514	S_9_CD_028_DT	Ephemeral	Trib. to Big Sioux River	44.873672	-96.975850	Upper Big Sioux	10170201	Desktop	44.28	0.00	0.00
Codington	SDL-514	S_10_CD_001_DT	Ephemeral	Trib. to Big Sioux River	44.867684	-96.976664	Upper Big Sioux	10170201	Desktop	44.69	0.00	0.00
Codington	SDL-514	S_9_CD_029_DT	Ephemeral	Trib. to Big Sioux River	44.866984	-96.975753	Upper Big Sioux	10170201	Desktop	44.74	0.00	0.00
Codington	SDL-514	S_9_CD_030_DT	Perennial	Trib. to Big Sioux River	44.861726	-96.976605	Upper Big Sioux	10170201	Desktop	45.11	2.31	0.04
Codington	SDL-514	S_9_CD_032_DT	Ephemeral	Trib. to Big Sioux River	44.853808	-96.975920	Upper Big Sioux	10170201	Desktop	45.65	2.45	0.01
Codington	SDL-514	S_9_CD_033_DT	Intermittent	Trib. to Big Sioux River	44.853335	-96.976077	Upper Big Sioux	10170201	Desktop	45.68	2.27	0.02
Codington	SDL-514	S_9_CD_034_DT	Ephemeral	Trib. to Big Sioux River	44.848268	-96.976061	Upper Big Sioux	10170201	Desktop	46.03	14.47	0.06
Codington	SDL-514	S_9_CD_034_DT	Ephemeral	Trib. to Big Sioux River	44.847493	-96.976446	Upper Big Sioux	10170201	Desktop	46.07	0.00	0.04
Codington	SDL-514	S_9_CD_035_DT	Ephemeral	Trib. to Big Sioux River	44.845229	-96.976025	Upper Big Sioux	10170201	Desktop	46.24	2.03	0.02
Codington	SDL-514	S_9_CD_037_DT	Ephemeral	Trib. to Big Sioux River	44.839291	-96.996791	Upper Big Sioux	10170201	Desktop	47.49	2.49	0.02
Codington	SDL-514	S_9_CD_037_DT	Ephemeral	Trib. to Big Sioux River	44.839153	-96.999135	Upper Big Sioux	10170201	Desktop	47.62	3.48	0.02
Codington	SDL-514	S_9_CD_039_DT	Ephemeral	Trib. to Big Sioux River	44.838088	-97.021228	Upper Big Sioux	10170201	Desktop	48.73	4.67	0.03
Codington	SDL-514	S_9_CD_040_DT	Intermittent	Trib. to Big Sioux River	44.840189	-97.032467	Upper Big Sioux	10170201	Desktop	49.32	6.94	0.04
Codington	SDL-514	S_9_CD_041_DT	Perennial	Big Sioux River	44.838332	-97.055259	Upper Big Sioux	10170201	Desktop	50.54	75.38	0.70
Codington	SDL-514	S_10_CD_002_DT	Ephemeral	Trib. to Big Sioux River	44.841883	-97.063554	Upper Big Sioux	10170201	Desktop	51.03	2.22	0.02
Codington	SDT-208	S2023CD016	Intermittent	Trib. to Big Sioux River	44.878181	-97.112202	Upper Big Sioux	10170201	Survey	0.00	0.00	0.11
Codington	SDT-208	S2023CD015	Manmade Pond	--	44.880334	-97.112261	Upper Big Sioux	10170201	Survey	0.00	0.00	0.00
Codington	SDT-208	S2023CD015	Manmade Pond	--	44.880670	-97.111950	Upper Big Sioux	10170201	Survey	0.00	0.00	0.03
Codington	SDT-208	S2015CD033	Perennial	Big Sioux River	44.880646	-97.109639	Upper Big Sioux	10170201	Survey	0.12	251.71	0.45
Codington	SDT-208	S3112CO003	Perennial	Big Sioux River	44.880124	-97.108228	Upper Big Sioux	10170201	Survey	0.17	64.19	0.54
Codington	SDT-208	S3112CO003	Perennial	Big Sioux River	44.878926	-97.105861	Upper Big Sioux	10170201	Survey	0.34	0.00	0.02
Codington	SDT-208	S3112CO003	Perennial	Big Sioux River	44.877857	-97.100648	Upper Big Sioux	10170201	Survey	0.59	0.00	0.17
Codington	SDT-208	S3112CO003	Perennial	Big Sioux River	44.877247	-97.099383	Upper Big Sioux	10170201	Survey	0.72	52.97	0.52
Codington	SDT-208	S_10_CD_007_DT	Ephemeral	Trib. to Big Sioux River	44.862257	-97.084708	Upper Big Sioux	10170201	Desktop	2.10	9.66	0.03
Codington	SDT-208	S_10_CD_008_DT	Perennial	--	44.862534	-97.084314	Upper Big Sioux	10170201	Desktop	2.12	0.00	0.04
Codington	SDT-208	S_10_CD_008_DT	Perennial	--	44.862534	-97.084225	Upper Big Sioux	10170201	Desktop	2.12	0.00	0.03
Codington	SDT-208	S_10_CD_006_DT	Ephemeral	Trib. to Big Sioux River	44.862379	-97.081327	Upper Big Sioux	10170201	Desktop	2.27	2.48	0.01

Waterbody Crossing Table												
County	Route ID	Feature ID	Feature Type	Feature Name	Latitude	Longitude	HUC 8 Watershed Name	HUC 8 Watershed No.	Survey or Desktop	Approx. MP	ESC Crossing Length (ft)	ESC Total Acres
Codington	SDT-208	S_10_CD_005_DT	Ephemeral	Trib. to Big Sioux River	44.862460	-97.079776	Upper Big Sioux	10170201	Desktop	2.33	3.20	0.01
Codington	SDT-208	S_10_CD_004_DT	Ephemeral	Trib. to Big Sioux River	44.862365	-97.079248	Upper Big Sioux	10170201	Desktop	2.37	4.87	0.02
Codington	SDT-208	S_10_CD_003_DT	Ephemeral	Trib. to Big Sioux River	44.851951	-97.078574	Upper Big Sioux	10170201	Desktop	3.13	3.57	0.03
Codington	SDT-208	S2014CD024	Perennial	Trib. to Big Sioux River	44.833362	-97.194607	Upper Big Sioux	10170201	Survey	9.36	0.00	0.00
Codington	SDT-208	S2014CD023	Perennial	Trib. to Big Sioux River	44.833910	-97.196692	Upper Big Sioux	10170201	Survey	9.45	29.64	0.13
Codington	SDT-208	S2006CD016	Ephemeral	Trib. to Big Sioux River	44.821856	-97.235021	Upper Big Sioux	10170201	Survey	11.58	48.98	0.03
Codington	SDT-208	S2014CD025	Intermittent	Trib. to Big Sioux River	44.814493	-97.250598	Upper Big Sioux	10170201	Survey	12.54	9.65	0.08
Codington	SDT-208	S2006CD015	Ephemeral	Trib. to Big Sioux River	44.810641	-97.259014	Upper Big Sioux	10170201	Survey	13.03	4.06	0.03
Davison	SDT-410	S_9_DV_007_DT	Ephemeral	Trib. to Dry Run	43.803976	-98.106451	Lower James	10160011	Desktop	0.19	0.00	0.04
Davison	SDT-410	S_9_DV_005_DT	Perennial	Dry Run	43.808773	-98.099963	Lower James	10160011	Desktop	0.67	26.86	0.18
Davison	SDT-410	S_9_DV_026_DT	Intermittent	Trib. to Dry Run	43.818722	-98.075590	Lower James	10160011	Desktop	2.09	9.72	0.07
Davison	SDT-410	S_12_DV_001_DT	Intermittent	Trib. to James River	43.845344	-98.039512	Lower James	10160011	Desktop	4.85	5.05	0.04
Davison	SDT-410	S_9_DV_035_DT	Ephemeral	Trib. to James River	43.850861	-97.999659	Lower James	10160011	Desktop	7.04	0.00	0.01
Edmunds	SDM-105	S2002EM004	Manmade Pond	--	45.434982	-98.760259	Snake	10160008	Survey	84.73	0.00	0.12
Edmunds	SDM-105	S2002ED003	Natural Pond	--	45.438055	-98.761172	Snake	10160008	Survey	84.95	0.00	0.02
Edmunds	SDM-105	S2014ED027	Ephemeral	Trib. to Snake Creek	45.461441	-98.780647	Snake	10160008	Survey	87.30	4.01	0.03
Edmunds	SDM-105	S2014ED028	Ephemeral	Trib. to Snake Creek	45.461587	-98.780632	Snake	10160008	Survey	87.31	4.01	0.03
Edmunds	SDM-105	S2014ED031	Intermittent	Trib. to Snake Creek	45.583552	-98.931936	Snake	10160008	Survey	100.75	11.60	0.13
Edmunds	SDM-105	S2014ED032	Intermittent	Trib. to Snake Creek	45.583783	-98.932609	Snake	10160008	Survey	100.77	0.00	0.00
Edmunds	SDM-105	S2014ED029	Intermittent	Trib. to Snake Creek	45.592249	-98.933872	Snake	10160008	Survey	101.36	16.18	0.07
Edmunds	SDM-105	S2014MP030	Intermittent	Trib. to Snake Creek	45.592406	-98.934394	Snake	10160008	Survey	101.37	0.00	0.02
Grant	SDL-514	S_9_GR_002_DT	Perennial	Whetstone River	45.274851	-96.526681	Upper Minnesota	07020001	Desktop	1.89	119.95	0.74
Grant	SDL-514	S_9_GR_003_DT	Pond	Lake Albert	45.245758	-96.532410	Upper Minnesota	07020001	Desktop	4.26	399.60	3.02
Grant	SDL-514	S_9_GR_004_DT	Pond	--	45.228240	-96.533900	Upper Minnesota	07020001	Desktop	5.54	0.00	0.01
Grant	SDL-514	S_9_GR_005_DT	Intermittent	Trib. to North Fork Yellow Bank River	45.209449	-96.552479	Upper Minnesota	07020001	Desktop	7.54	22.01	0.15
Grant	SDL-514	S_9_GR_006_DT	Ephemeral	Trib. to North Fork Yellow Bank River	45.188255	-96.590127	Upper Minnesota	07020001	Desktop	10.13	11.87	0.06
Grant	SDL-514	S_9_GR_007_DT	Ephemeral	Trib. to North Fork Yellow Bank River	45.181807	-96.593937	Upper Minnesota	07020001	Desktop	10.61	2.31	0.02
Grant	SDL-514	S_9_GR_008_DT	Ephemeral	Trib. to North Fork Yellow Bank River	45.174908	-96.616217	Upper Minnesota	07020001	Desktop	11.88	4.87	0.04
Grant	SDL-514	S_9_GR_009_DT	Perennial	North Fork Yellow Bank River	45.166734	-96.629524	Upper Minnesota	07020001	Desktop	12.93	201.24	0.47
Grant	SDL-514	S_9_GR_010_DT	Ephemeral	Trib. to North Fork Yellow Bank River	45.154162	-96.630034	Upper Minnesota	07020001	Desktop	13.82	0.00	0.00

Waterbody Crossing Table												
County	Route ID	Feature ID	Feature Type	Feature Name	Latitude	Longitude	HUC 8 Watershed Name	HUC 8 Watershed No.	Survey or Desktop	Approx. MP	ESC Crossing Length (ft)	ESC Total Acres
Grant	SDL-514	S_9_GR_011_DT	Ephemeral	Trib. to North Fork Yellow Bank River	45.140033	-96.652904	Upper Minnesota	07020001	Desktop	15.45	0.00	0.03
Grant	SDL-514	S_9_GR_012_DT	Ephemeral	Trib. to North Fork Yellow Bank River	45.118226	-96.697967	Upper Minnesota	07020001	Desktop	18.24	4.78	0.04
Grant	SDL-514	S_9_GR_845_DT	Ephemeral	Trib. to North Fork Yellow Bank River	45.114605	-96.711070	Upper Minnesota	07020001	Desktop	18.93	0.00	0.01
Grant	SDL-514	S_9_GR_013_DT	Pond	--	45.102566	-96.735071	Upper Minnesota	07020001	Desktop	20.58	0.00	0.04
Grant	SDL-514	S_9_GR_015_DT	Ephemeral	Trib. to North Fork Yellow Bank River	45.101758	-96.737835	Upper Minnesota	07020001	Desktop	20.73	0.00	0.02
Grant	SDL-514	S_9_GR_016_DT	Ephemeral	Trib. to North Fork Yellow Bank River	45.097936	-96.745082	Upper Minnesota	07020001	Desktop	21.20	4.64	0.07
Grant	SDL-514	S_9_GR_841_DT	Ephemeral	Trib. to North Fork Yellow Bank River	45.095089	-96.754388	Upper Minnesota	07020001	Desktop	21.69	0.00	0.01
Grant	SDL-514	S_9_GR_018_DT	Intermittent	Trib. to North Fork Yellow Bank River	45.089131	-96.770717	Upper Minnesota	07020001	Desktop	22.65	0.00	0.00
Grant	SDL-514	S_9_GR_018_DT	Intermittent	Trib. to North Fork Yellow Bank River	45.089047	-96.770739	Upper Minnesota	07020001	Desktop	22.66	0.00	0.00
Grant	SDL-514	S_9_GR_018_DT	Intermittent	Trib. to North Fork Yellow Bank River	45.088955	-96.770883	Upper Minnesota	07020001	Desktop	22.66	0.00	0.01
Grant	SDL-514	S_9_GR_018_DT	Intermittent	Trib. to North Fork Yellow Bank River	45.088975	-96.771061	Upper Minnesota	07020001	Desktop	22.67	0.00	0.00
Grant	SDL-514	S_9_GR_018_DT	Intermittent	Trib. to North Fork Yellow Bank River	45.089029	-96.771099	Upper Minnesota	07020001	Desktop	22.67	0.00	0.00
Grant	SDL-514	S_9_GR_019_DT	Ephemeral	Trib. to North Fork Yellow Bank River	45.088088	-96.772175	Upper Minnesota	07020001	Desktop	22.73	0.00	0.00
Grant	SDL-514	S_9_GR_018_DT	Intermittent	Trib. to North Fork Yellow Bank River	45.088300	-96.772515	Upper Minnesota	07020001	Desktop	22.73	25.41	0.43
Grant	SDL-514	S_9_GR_021_DT	Ephemeral	Trib. to North Fork Yellow Bank River	45.080642	-96.789956	Upper Minnesota	07020001	Desktop	23.79	0.00	0.00
Grant	SDL-514	S_9_GR_020_DT	Ephemeral	Trib. to North Fork Yellow Bank River	45.080445	-96.790294	Upper Minnesota	07020001	Desktop	23.84	5.99	0.06
Grant	SDL-514	S_9_GR_022_DT	Ephemeral	Trib. to North Fork Yellow Bank River	45.076788	-96.797836	Upper Minnesota	07020001	Desktop	24.26	6.02	0.05
Grant	SDL-514	S_9_GR_840_DT	Ephemeral	Trib. to North Fork Yellow Bank River	45.075542	-96.803342	Upper Minnesota	07020001	Desktop	24.57	4.79	0.02
Grant	SDL-514	S_9_GR_024_DT	Ephemeral	Trib. to North Fork Yellow Bank River	45.073891	-96.810200	Upper Minnesota	07020001	Desktop	24.92	0.00	0.01
Grant	SDL-514	S_9_GR_025_DT	Ephemeral	Trib. to North Fork Yellow Bank River	45.073882	-96.810755	Upper Minnesota	07020001	Desktop	24.93	0.00	0.02
Grant	SDL-514	S_9_GR_023_DT	Pond	--	45.074552	-96.810874	Upper Minnesota	07020001	Desktop	24.96	0.00	0.18
Grant	SDL-514	S_9_GR_025_DT	Ephemeral	Trib. to North Fork Yellow Bank River	45.074224	-96.811911	Upper Minnesota	07020001	Desktop	25.01	0.00	0.03
Grant	SDL-514	S_9_GR_025_DT	Ephemeral	Trib. to North Fork Yellow Bank River	45.074164	-96.812652	Upper Minnesota	07020001	Desktop	25.04	0.00	0.01
Grant	SDL-514	S_12_GR_001_DT	Pond/Lake	--	45.061558	-96.848060	Upper Minnesota	7020001	Desktop	27.13	0.00	0.14
Hamlin	SDT-208	S2006HA012	Ephemeral	Trib. to Big Sioux River	44.781215	-97.336770	Middle Big Sioux Coteau	10170202	Survey	17.49	0.00	0.00
Hamlin	SDT-208	S2014HA021	Intermittent	Trib. to Big Sioux River	44.773945	-97.352979	Middle Big Sioux Coteau	10170202	Survey	18.45	0.00	0.04
Hamlin	SDT-208	S2006HA013	Ephemeral	Trib. to Big Sioux River	44.772513	-97.355433	Middle Big Sioux Coteau	10170202	Survey	18.63	24.08	0.11
Hamlin	SDT-208	S2006HA014	Ephemeral	Trib. to Big Sioux River	44.764289	-97.365531	Middle Big Sioux Coteau	10170202	Survey	19.39	3.01	0.03
Hamlin	SDT-208	S2014HA018	Ephemeral	Trib. to Big Sioux River	44.755394	-97.376179	Middle Big Sioux Coteau	10170202	Survey	20.20	2.06	0.01
Hamlin	SDT-208	S2014HA019	Ephemeral	Trib. to Big Sioux River	44.749340	-97.382433	Middle Big Sioux Coteau	10170202	Survey	20.74	23.23	0.15

Waterbody Crossing Table												
County	Route ID	Feature ID	Feature Type	Feature Name	Latitude	Longitude	HUC 8 Watershed Name	HUC 8 Watershed No.	Survey or Desktop	Approx. MP	ESC Crossing Length (ft)	ESC Total Acres
Hamlin	SDT-208	S2014HA020	Ephemeral	Trib. to Big Sioux River	44.748910	-97.383119	Middle Big Sioux Coteau	10170202	Survey	20.74	0.00	0.04
Hamlin	SDT-208	S2014HA022	Natural Pond	--	44.725395	-97.430261	Middle Big Sioux Coteau	10170202	Survey	23.66	49.47	0.38
Hamlin	SDT-208	S2015HA042	Ephemeral	Trib. to Redstone Creek	44.708531	-97.463734	Middle Big Sioux Coteau	10170202	Survey	25.72	2.09	0.01
Hamlin	SDT-208	S2015HA032	Intermittent	Trib. to Redstone Creek	44.701461	-97.484723	Middle Big Sioux Coteau	10170202	Survey	26.94	3.14	0.03
Hand	SDL-320	S_2_HN_019_DT	Ephemeral	Matter Creek	44.821662	-99.072822	Turtle	10160009	Desktop	51.37	11.21	0.10
Hand	SDL-320	S2014HN004	Ephemeral	Trib. to Matter Creek	44.826560	-99.055011	Turtle	10160009	Survey	52.33	5.16	0.03
Hand	SDL-320	S2014HN026	Manmade Pond	--	44.833948	-99.013690	Turtle	10160009	Survey	54.53	0.00	0.05
Hand	SDL-320	S2012HN001	Intermittent	Bryant Creek	44.855519	-98.820202	Turtle	10160009	Survey	64.49	20.66	0.20
Hand	SDL-320	S2015HN019	Manmade Pond	--	44.868513	-98.767997	Turtle	10160009	Survey	67.25	0.00	0.05
Hand	SDL-320	S2015HN018	Manmade Pond	--	44.870923	-98.735186	Turtle	10160009	Survey	68.97	0.00	0.09
Hyde	SDL-320	S3919HY001	Manmade Pond	--	44.756489	-99.635468	Medicine Knoll	10140103	Survey	21.79	0.00	0.23
Kingsbury	SDM-104	S2006KI034	Ephemeral	Trib. to Rock Creek	44.226594	-97.585350	Lower James	10160011	Survey	121.39	1.31	0.01
Kingsbury	SDM-104	S_12_KI_003_DT	Pond	--	44.254206	-97.609106	Lower James	10160011	Desktop	123.71	0.00	0.63
Kingsbury	SDM-104	S_10_KI_001_DT	Intermittent	Trib. to Rock Creek	44.262367	-97.611595	Lower James	10160011	Desktop	124.27	0.00	0.05
Kingsbury	SDM-104	S_12_KI_004_DT	Intermittent	Rock Creek	44.263888	-97.613589	Lower James	10160011	Desktop	124.44	10.39	0.10
Kingsbury	SDM-104	S_12_KI_005_DT	Intermittent	Rock Creek	44.266184	-97.615046	Lower James	10160011	Desktop	124.64	11.51	0.11
Kingsbury	SDM-104	S2014KI007	Ephemeral	Trib. to Redstone Creek	44.278963	-97.658306	Middle James	10160006	Survey	127.08	9.79	0.08
Kingsbury	SDM-104	S2005KI017	Ephemeral	Trib. to Redstone Creek	44.291128	-97.670705	Middle James	10160006	Survey	128.18	4.52	0.04
Kingsbury	SDM-104	S2015KI006	Intermittent	Trib. to Redstone Creek	44.302289	-97.691020	Middle James	10160006	Survey	129.51	5.29	0.06
Kingsbury	SDM-104	S2005KI018	Perennial	Redstone Creek	44.304471	-97.699192	Middle James	10160006	Survey	129.90	53.38	0.29
Kingsbury	SDM-104	S2015KI007	Ephemeral	Trib. to Redstone Creek	44.322673	-97.711336	Middle James	10160006	Survey	131.41	2.00	0.01
Kingsbury	SDM-104	S2015KI030	Ephemeral	Trib. to South Fork Pearl Creek	44.439215	-97.772074	Middle James	10160006	Survey	140.61	3.11	0.03
Kingsbury	SDM-104	S_9_KI_014_DT	Ephemeral	Trib. to South Fork Pearl Creek	44.439849	-97.771741	Middle James	10160006	Desktop	140.61	0.00	0.00
Kingsbury	SDM-104	S_9_KI_014_DT	Ephemeral	Trib. to South Fork Pearl Creek	44.439981	-97.771581	Middle James	10160006	Desktop	140.61	0.00	0.00
Kingsbury	SDM-104	S2009KI003	Ephemeral	Trib. to South Fork Pearl Creek	44.473708	-97.788609	Middle James	10160006	Survey	143.32	0.00	0.01
Kingsbury	SDM-104	S2014KI008	Natural Pond	--	44.473607	-97.789092	Middle James	10160006	Survey	143.33	68.85	0.12
Kingsbury	SDM-104	S2009KI003	Ephemeral	Trib. to South Fork Pearl Creek	44.473518	-97.789497	Middle James	10160006	Survey	143.34	0.00	0.01
Kingsbury	SDT-411	S_9_KI_844_DT	Intermittent	Trib. to East Fork Vermillion River	44.345003	-97.388317	South Big Sioux Coteau	10170103	Desktop	3.46	11.99	0.08
Kingsbury	SDT-411	S_9_KI_013_DT	Intermittent	Trib. to East Fork Vermillion River	44.345109	-97.406136	South Big Sioux Coteau	10170103	Desktop	4.34	9.42	0.08
Kingsbury	SDT-411	S_10_KI_001_DT	Open Water	Lake Henry	44.350331	-97.501010	South Big Sioux Coteau	10170103	Desktop	9.42	1,010.18	6.89

Waterbody Crossing Table												
County	Route ID	Feature ID	Feature Type	Feature Name	Latitude	Longitude	HUC 8 Watershed Name	HUC 8 Watershed No.	Survey or Desktop	Approx. MP	ESC Crossing Length (ft)	ESC Total Acres
Kingsbury	SDT-411	S_9_KI_008_DT	Pond	--	44.349075	-97.517158	South Big Sioux Coteau	10170103	Desktop	10.23	0.00	0.14
Kingsbury	SDT-411	S_9_KI_007_DT	Intermittent	Trib. to East Fork Vermillion River	44.348714	-97.517126	South Big Sioux Coteau	10170103	Desktop	10.24	54.70	0.23
Kingsbury	SDT-411	S_9_KI_996_DT	Ephemeral	Trib. to Rock Creek	44.340575	-97.598173	Lower James	10160011	Desktop	14.62	28.23	0.13
Kingsbury	SDT-411	S_9_KI_006_DT	Intermittent	Rock Creek	44.339260	-97.609706	Lower James	10160011	Desktop	15.23	26.96	0.23
Kingsbury	SDT-411	S_9_KI_005_DT	Ephemeral	Trib. to Rock Creek	44.339168	-97.623870	Middle James	10160006	Desktop	15.93	6.26	0.04
Kingsbury	SDT-411	S_9_KI_003_DT	Ephemeral	Trib. to Redstone Creek	44.339138	-97.696802	Middle James	10160006	Desktop	19.53	523.48	0.60
Kingsbury	SDT-411	S_9_KI_001_DT	Perennial	Redstone Creek	44.338751	-97.699089	Middle James	10160006	Desktop	19.66	0.00	0.14
Kingsbury	SDT-411	S_9_KI_002_DT	Ephemeral	Trib. to Redstone Creek	44.338994	-97.699300	Middle James	10160006	Desktop	19.66	25.56	0.10
Kingsbury	SDT-411	S_9_KI_001_DT	Perennial	Redstone Creek	44.339219	-97.701080	Middle James	10160006	Desktop	19.75	70.09	0.41
Lake	SDL-513	S_9_LA_537_DT	Intermittent	Trib. to Battle Creek	44.194515	-96.897841	Middle Big Sioux Coteau	10170202	Desktop	14.89	13.92	0.07
Lake	SDL-513	S_9_LA_536_DT	Intermittent	Trib. to Battle Creek	44.190069	-96.899001	Middle Big Sioux Coteau	10170202	Desktop	15.20	10.71	0.07
Lake	SDL-513	S_10_LA_001_DT	Ephemeral	Trib. to Battle Creek	44.147505	-96.907019	Middle Big Sioux Coteau	10170202	Desktop	19.18	2.67	0.02
Lake	SDL-513	S_10_LA_002_DT	Perennial	Battle Creek	44.139425	-96.901487	Middle Big Sioux Coteau	10170202	Desktop	19.86	21.67	0.15
Lake	SDL-513	S_9_LA_533_DT	Intermittent	Trib. to Battle Creek	44.120564	-96.898883	Middle Big Sioux Coteau	10170202	Desktop	21.20	0.00	0.04
Lake	SDL-513	S_9_LA_531_DT	Intermittent	Trib. to Battle Creek	44.102480	-96.899311	Middle Big Sioux Coteau	10170202	Desktop	22.43	13.42	0.12
Lake	SDL-513	S_9_LA_530_DT	Intermittent	Trib. to Battle Creek	44.088607	-96.899593	Middle Big Sioux Coteau	10170202	Desktop	23.40	16.07	0.10
Lake	SDL-513	S_9_LA_925_DT	Ephemeral	Trib. to Bachelor Creek	44.039926	-96.912613	Lower Big Sioux	10170203	Desktop	27.18	0.00	0.05
Lake	SDL-513	S_10_LA_004_DT	Ephemeral	Trib. to Bachelor Creek	44.039737	-96.913272	Lower Big Sioux	10170203	Desktop	27.19	12.60	0.07
Lake	SDL-513	S_9_LA_523_DT	Pond	--	44.014217	-96.932683	Lower Big Sioux	10170203	Desktop	29.35	0.00	0.01
Lake	SDL-513	S_9_LA_524_DT	Perennial	Bachelor Creek	44.013678	-96.932748	Lower Big Sioux	10170203	Desktop	29.38	21.64	0.14
Lake	SDL-513	S2006LA028	Manmade Pond	--	43.973075	-96.954782	Lower Big Sioux	10170203	Survey	32.58	0.00	0.00
Lake	SDL-513	S2006LA029	Manmade Pond	--	43.972644	-96.954770	Lower Big Sioux	10170203	Survey	32.65	0.00	0.00
Lake	SDL-513	S2006LA029	Manmade Pond	--	43.972650	-96.954986	Lower Big Sioux	10170203	Survey	32.66	0.00	0.00
Lake	SDL-513	S2006LA027	Ephemeral	Trib. to Skunk Creek	43.973751	-96.955593	Lower Big Sioux	10170203	Survey	32.66	0.00	0.07
Lake	SDL-513	S2006LA025	Manmade Pond	--	43.971936	-96.955407	Lower Big Sioux	10170203	Survey	32.68	0.00	0.13
Lake	SDM-104	S2008LA007	Ephemeral	Trib. to North Buffalo Creek	43.862519	-97.147729	Lower Big Sioux	10170203	Survey	85.34	3.87	0.03
Lake	SDM-104	S2008LA008	Ephemeral	Trib. to North Buffalo Creek	43.862649	-97.147740	Lower Big Sioux	10170203	Survey	85.35	3.87	0.03
Lake	SDM-104	S2003LA037	Ephemeral	Trib. to North Buffalo Creek	43.881570	-97.164137	Lower Big Sioux	10170203	Survey	87.23	0.00	0.00
Lake	SDM-104	S2003LA038	Ephemeral	Trib. to North Buffalo Creek	43.882301	-97.165917	Lower Big Sioux	10170203	Survey	87.34	5.28	0.04
Lake	SDM-104	S2002LA013	Ephemeral	Trib. to East Fork Vermillion River	43.902602	-97.197358	Vermillion	10170102	Survey	89.46	3.12	0.03

Waterbody Crossing Table												
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Lake	SDM-104	S2002LA032	Ephemeral	Trib. to East Fork Vermillion River	43.914414	-97.213687	Vermillion	10170102	Survey	90.63	1.00	0.01
Lake	SDM-104	S2013LA001	Natural Pond	--	43.919282	-97.219746	Vermillion	10170102	Survey	91.08	0.00	0.07
Lake	SDM-104	S2002LA031	Ephemeral	Trib. to East Fork Vermillion River	43.922986	-97.224300	Vermillion	10170102	Survey	91.42	1.21	0.01
Lake	SDM-104	S2010LA015	Ephemeral	Trib. to East Fork Vermillion River	43.944818	-97.250543	Vermillion	10170102	Survey	93.42	3.08	0.02
Lake	SDM-104	S2002LA030	Ephemeral	Trib. to East Fork Vermillion River	43.948830	-97.255663	Vermillion	10170102	Survey	93.80	4.02	0.01
Lake	SDM-104	S2013LA002	Ephemeral	Trib. to East Fork Vermillion River	43.956784	-97.264665	Vermillion	10170102	Survey	94.48	4.69	0.04
Lake	SDM-104	S2002LA027	Ephemeral	Trib. to East Fork Vermillion River	43.963080	-97.271584	Vermillion	10170102	Survey	95.06	1.00	0.01
Lake	SDM-104	S2002LA026	Ephemeral	Trib. to East Fork Vermillion River	43.967691	-97.276758	Vermillion	10170102	Survey	95.50	745.17	0.04
Lake	SDM-104	S2002LA025	Intermittent	Trib. to East Fork Vermillion River	43.970143	-97.280627	Vermillion	10170102	Survey	95.73	2.02	0.01
Lake	SDM-104	S2002LA024	Manmade Pond	--	43.970414	-97.280379	Vermillion	10170102	Survey	95.74	0.00	0.18
Lake	SDM-104	S2002LA023	Ephemeral	Trib. to East Fork Vermillion River	43.973601	-97.286202	Vermillion	10170102	Survey	96.11	1.54	0.01
Lake	SDM-104	S_12_LA_002_DT	Perennial	East Fork Vermillion River	43.966202	-97.300469	Vermillion	10170102	Desktop	96.56	0.00	0.02
Lake	SDM-104	S_9_LA_525_DT	Perennial	East Fork Vermillion River	43.978191	-97.306972	Vermillion	10170102	Desktop	97.23	0.00	0.10
Lake	SDM-104	S_9_LA_525_DT	Perennial	East Fork Vermillion River	43.978571	-97.308512	Vermillion	10170102	Desktop	97.30	0.00	0.22
Lake	SDM-104	S_9_LA_525_DT	Perennial	East Fork Vermillion River	43.978677	-97.309933	Vermillion	10170102	Desktop	97.41	54.61	0.52
Lake	SDM-104	S_9_LA_842_DT	Ephemeral	Trib. to East Fork Vermillion River	43.980801	-97.317416	Vermillion	10170102	Desktop	97.79	12.01	0.10
Lake	SDM-104	S2006LA032	Manmade Pond	--	43.989244	-97.330493	Vermillion	10170102	Survey	98.68	0.00	0.06
Lake	SDM-104	S2002LA011	Ephemeral	Trib. to East Fork Vermillion River	43.990914	-97.331834	Vermillion	10170102	Survey	98.84	10.23	0.13
Lake	SDM-104	S2002LA012	Ephemeral	Trib. to East Fork Vermillion River	43.992351	-97.331984	Vermillion	10170102	Survey	98.90	4.38	0.03
Lake	SDM-104	S2010LA016	Natural Pond	--	44.012105	-97.338114	Vermillion	10170102	Survey	100.38	66.00	0.16
Lake	SDM-104	S2002LA010	Ephemeral	Trib. to East Fork Vermillion River	44.041947	-97.366629	Vermillion	10170102	Survey	103.00	0.00	0.02
Lake	SDT-206	S2006LA025	Manmade Pond	--	43.971921	-96.955775	Lower Big Sioux	10170203	Survey	0.07	0.00	0.00
Lake	SDT-206	S2015LA002	Natural Pond	--	43.930138	-96.968457	Lower Big Sioux	10170203	Survey	3.33	264.73	1.99
Lake	SDT-206	S_2_LA_007_DT	Open Water	Round Lake	43.929510	-96.969466	Lower Big Sioux	10170203	Desktop	3.39	187.17	1.42
Lake	SDT-206	S2006LA030	Natural Pond	--	43.927260	-96.970479	Lower Big Sioux	10170203	Survey	3.55	381.39	2.68
Lake	SDT-206	S2006LA031	Ephemeral	Trib. to Franklin Creek	43.923369	-96.992304	Lower Big Sioux	10170203	Survey	4.75	11.67	0.07
Lake	SDT-206	S2015LA004	Intermittent	Franklin Creek	43.917026	-96.999694	Lower Big Sioux	10170203	Survey	5.49	10.32	0.09
Lake	SDT-206	S2015LA003	Perennial	North Buffalo Creek	43.914573	-96.999389	Lower Big Sioux	10170203	Survey	5.64	0.00	0.07
Lake	SDT-206	S2005LA073	Ephemeral	Trib. to North Buffalo Creek	43.909087	-97.038178	Lower Big Sioux	10170203	Survey	7.72	1.34	0.01
Lake	SDT-206	S2005LA072	Intermittent	North Buffalo Creek	43.906484	-97.042340	Lower Big Sioux	10170203	Survey	8.00	0.00	0.01

Waterbody Crossing Table												
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Lake	SDT-206	S2010LA012	Ephemeral	Trib. to North Buffalo Creek	43.884370	-97.098933	Lower Big Sioux	10170203	Survey	11.74	0.00	0.00
Lake	SDT-206	S_9_LA_162_DT_USACE	Intermittent	North Buffalo Creek	43.883705	-97.102253	Lower Big Sioux	10170203	Desktop	11.90	0.00	0.08
Lake	SDT-206	S2005LA071	Ephemeral	Trib. to North Buffalo Creek	43.883814	-97.108685	Lower Big Sioux	10170203	Survey	12.24	0.00	0.02
Lake	SDT-206	S2006LA024	Ephemeral	Trib. to North Buffalo Creek	43.884256	-97.109210	Lower Big Sioux	10170203	Survey	12.25	0.00	0.01
Lake	SDT-206	S2005LA070	Intermittent	Trib. to North Buffalo Creek	43.879626	-97.145818	Lower Big Sioux	10170203	Survey	14.28	1.04	0.01
Lake	SDT-206	S2020LA003	Manmade Pond	--	43.878539	-97.146288	Lower Big Sioux	10170203	Survey	14.33	0.00	0.35
Lincoln	IAL-510	S_9_LI_001_DT	Intermittent	Trib. to Pattee Creek	43.097867	-96.476230	Lower Big Sioux	10170203	Desktop	0.19	1,551.52	0.48
Lincoln	IAL-510	S_9_UN_001_DT	Perennial	Big Sioux River	43.076426	-96.455753	Lower Big Sioux	10170203	Desktop	2.93	240.48	1.72
Lincoln	SDM-104	S2008LI004	Perennial	Big Sioux River	43.350634	-96.527247	Lower Big Sioux	10170203	Survey	27.15	92.66	0.51
Lincoln	SDM-104	S_2_LI_132_DT	Perennial	Big Sioux River	43.350978	-96.527314	Lower Big Sioux	10170203	Desktop	27.16	0.00	0.13
Lincoln	SDM-104	S2008LI005	Ephemeral	Trib. to Big Sioux River	43.352019	-96.542147	Lower Big Sioux	10170203	Survey	27.96	0.00	0.01
Lincoln	SDM-104	S_10_LI_024_DT	Ephemeral	Trib. to Big Sioux River	43.352560	-96.542510	Lower Big Sioux	10170203	Desktop	27.96	3.66	0.01
Lincoln	SDM-104	S_10_LI_025_DT	Ephemeral	Trib. to Big Sioux River	43.357197	-96.558249	Lower Big Sioux	10170203	Desktop	28.84	3.28	0.03
Lincoln	SDM-104	S_10_LI_004_DT	Ephemeral	Trib. to Big Sioux River	43.384283	-96.609094	Lower Big Sioux	10170203	Desktop	32.22	0.00	0.01
Lincoln	SDM-104	S_10_LI_004_DT	Ephemeral	Trib. to Big Sioux River	43.384322	-96.609598	Lower Big Sioux	10170203	Desktop	32.26	0.00	0.00
Lincoln	SDM-104	S_10_LI_004_DT	Ephemeral	Trib. to Big Sioux River	43.384575	-96.610752	Lower Big Sioux	10170203	Desktop	32.33	0.00	0.03
Lincoln	SDM-104	S_10_LI_005_DT	Ephemeral	Trib. to Big Sioux River	43.386331	-96.615977	Lower Big Sioux	10170203	Desktop	32.62	0.00	0.01
Lincoln	SDM-104	S_12_LI_001_DT	Ephemeral	Trib. to Ninemile Creek	43.378619	-96.668472	Lower Big Sioux	10170203	Desktop	35.51	3.84	0.03
Lincoln	SDM-104	S2005LI046	Ephemeral	Trib. to Ninemile Creek	43.378217	-96.668459	Lower Big Sioux	10170203	Desktop	35.51	0.00	0.00
Lincoln	SDM-104	S_2_LI_063_DT	Ephemeral	Trib. to Ninemile Creek	43.380845	-96.687502	Lower Big Sioux	10170203	Desktop	36.48	0.00	0.00
Lincoln	SDM-104	S2005LI047	Ephemeral	Trib. to Ninemile Creek	43.380482	-96.687499	Lower Big Sioux	10170203	Survey	36.48	5.00	0.03
Lincoln	SDM-104	S_10_LI_007_DT	Ephemeral	Trib. to Beaver Creek	43.395645	-96.747037	Lower Big Sioux	10170203	Desktop	40.04	3.00	0.02
Lincoln	SDM-104	S_10_LI_008_DT	Ephemeral	Trib. to Beaver Creek	43.395647	-96.747223	Lower Big Sioux	10170203	Desktop	40.04	3.00	0.02
Lincoln	SDM-104	S_10_LI_010_DT	Ephemeral	Trib. to Beaver Creek	43.395936	-96.760442	Lower Big Sioux	10170203	Desktop	40.69	0.00	0.03
Lincoln	SDM-104	S_10_LI_009_DT	Intermittent	Trib. to Beaver Creek	43.395737	-96.760065	Lower Big Sioux	10170203	Desktop	40.69	10.67	0.08
Lincoln	SDM-104	S_10_LI_011_DT	Ephemeral	Trib. to Beaver Creek	43.394861	-96.778315	Lower Big Sioux	10170203	Desktop	41.62	0.00	0.01
Lincoln	SDM-104	S_10_LI_012_DT	Ephemeral	Trib. to Beaver Creek	43.394983	-96.782756	Lower Big Sioux	10170203	Desktop	41.87	0.00	0.05
Lincoln	SDM-104	S_10_LI_015_DT	Ephemeral	Trib. to Beaver Creek	43.395126	-96.786853	Lower Big Sioux	10170203	Desktop	42.05	3.00	0.02
Lincoln	SDM-104	S_10_LI_016_DT	Ephemeral	Trib. to Beaver Creek	43.395127	-96.787021	Lower Big Sioux	10170203	Desktop	42.06	2.50	0.02
Lincoln	SDM-104	S_10_LI_017_DT	Ephemeral	Trib. to Beaver Creek	43.397096	-96.790061	Lower Big Sioux	10170203	Desktop	42.29	2.34	0.02

Waterbody Crossing Table												
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Lincoln	SDM-104	S_10_LI_018_DT	Ephemeral	Trib. to Beaver Creek	43.399548	-96.792542	Lower Big Sioux	10170203	Desktop	42.50	0.00	0.00
Lincoln	SDM-104	S_10_LI_028_DT	Intermittent	Trib. to Beaver Creek	43.402635	-96.797638	Lower Big Sioux	10170203	Desktop	42.88	0.00	0.00
Lincoln	SDM-104	S_10_LI_027_DT	Intermittent	Trib. to Beaver Creek	43.403135	-96.797628	Lower Big Sioux	10170203	Desktop	42.88	15.45	0.08
Lincoln	SDM-104	S_10_LI_029_DT	Ephemeral	Trib. to Beaver Creek	43.404747	-96.806271	Lower Big Sioux	10170203	Desktop	43.33	4.00	0.03
Lincoln	SDM-104	S_10_LI_030_DT	Ephemeral	Trib. to Beaver Creek	43.404752	-96.806461	Lower Big Sioux	10170203	Desktop	43.34	4.00	0.03
Lincoln	SDM-104	S_10_LI_031_DT	Ephemeral	Trib. to Beaver Creek	43.406596	-96.810995	Lower Big Sioux	10170203	Desktop	43.61	6.55	0.05
Lincoln	SDM-104	S_10_LI_032_DT	Ephemeral	Trib. to Beaver Creek	43.410828	-96.821290	Lower Big Sioux	10170203	Desktop	44.22	6.08	0.04
Lincoln	SDM-104	S2008LI008	Ephemeral	Trib. to Beaver Creek	43.410798	-96.835521	Lower Big Sioux	10170203	Survey	44.95	6.50	0.02
Lincoln	SDM-104	S2008LI009	Ephemeral	Trib. to Beaver Creek	43.410644	-96.835699	Lower Big Sioux	10170203	Survey	44.98	0.00	0.03
Lincoln	SDM-104	S_10_LI_033_DT	Ephemeral	Trib. to Beaver Creek	43.411233	-96.837454	Lower Big Sioux	10170203	Desktop	45.00	7.87	0.06
Lincoln	SDM-104	S_10_LI_033_DT	Ephemeral	Trib. to Beaver Creek	43.412227	-96.844397	Lower Big Sioux	10170203	Desktop	45.42	0.00	0.02
Lincoln	SDM-104	S_10_LI_034_DT	Ephemeral	Trib. to Beaver Creek	43.412437	-96.844936	Lower Big Sioux	10170203	Desktop	45.43	0.00	0.01
Lincoln	SDM-104	S_10_LI_035_DT	Ephemeral	Trib. to Beaver Creek	43.412642	-96.846104	Lower Big Sioux	10170203	Desktop	45.48	0.00	0.00
Lincoln	SDM-104	S2008LI010	Ephemeral	Trib. to Beaver Creek	43.412230	-96.846116	Lower Big Sioux	10170203	Survey	45.49	2.00	0.01
Lincoln	SDM-104	S_10_LI_037_DT	Ephemeral	Trib. to Beaver Creek	43.412643	-96.846313	Lower Big Sioux	10170203	Desktop	45.49	0.00	0.00
Lincoln	SDM-104	S2008LI011	Ephemeral	Trib. to Beaver Creek	43.412232	-96.846325	Lower Big Sioux	10170203	Survey	45.50	2.00	0.01
Lincoln	SDM-104	S2008LI012	Ephemeral	Trib. to Beaver Creek	43.412251	-96.848445	Lower Big Sioux	10170203	Survey	45.60	8.89	0.06
Lincoln	SDM-104	S_10_LI_040_DT	Ephemeral	Trib. to Beaver Creek	43.412663	-96.848696	Lower Big Sioux	10170203	Desktop	45.61	0.00	0.00
Lincoln	SDM-104	S2005LI064	Perennial	Trib. to Beaver Creek	43.429720	-96.883343	Lower Big Sioux	10170203	Survey	47.85	4.00	0.03
Lincoln	SDM-104	S_2_LI_065_DT	Ephemeral	Trib. to Beaver Creek	43.430204	-96.883308	Lower Big Sioux	10170203	Desktop	47.85	0.00	0.00
Lincoln	SDM-104	S_2_LI_065_DT	Ephemeral	Trib. to Beaver Creek	43.430211	-96.883327	Lower Big Sioux	10170203	Desktop	47.86	0.00	0.00
Lincoln	SDM-104	S2005LI060	Intermittent	Trib. to Beaver Creek	43.448029	-96.902038	Lower Big Sioux	10170203	Survey	49.48	8.86	0.06
Lincoln	SDM-104	S2005LI061	Ephemeral	Trib. to Beaver Creek	43.451508	-96.906848	Lower Big Sioux	10170203	Survey	49.81	9.17	0.07
Lincoln	SDM-104	S2004LI035	Ephemeral	Trib. to Beaver Creek	43.452412	-96.910517	Lower Big Sioux	10170203	Survey	50.03	2.03	0.01
Lincoln	SDM-104	S2004LI036	Intermittent	Beaver Creek	43.452748	-96.912591	Lower Big Sioux	10170203	Survey	50.13	3.50	0.03
Lincoln	SDM-104	S2004LI037	Ephemeral	Beaver Creek	43.454059	-96.916742	Lower Big Sioux	10170203	Survey	50.37	2.50	0.02
Lincoln	SDM-104	S2004LI038	Ephemeral	Trib. to Beaver Creek	43.455886	-96.918480	Lower Big Sioux	10170203	Survey	50.52	1.02	0.01
Lincoln	SDT-409	S_9_TU_055_DT	Intermittent	Long Creek	43.377946	-96.938861	Vermillion	10170102	Desktop	1.24	29.03	0.44
Lincoln	SDT-409	S_9_LI_007_DT	Intermittent	Trib. to Long Creek	43.377697	-96.915779	Vermillion	10170102	Desktop	2.43	66.17	0.55
Lincoln	SDT-409	S_9_TU_064_DT	Ephemeral	Trib. to Long Creek	43.380764	-96.905455	Vermillion	10170102	Desktop	3.01	12.28	0.07

Waterbody Crossing Table												
County	Route ID	Feature ID	Feature Type	Feature Name	Latitude	Longitude	HUC 8 Watershed Name	HUC 8 Watershed No.	Survey or Desktop	Approx. MP	ESC Crossing Length (ft)	ESC Total Acres
Lincoln	SDT-409	S_9_TU_065_DT	Ephemeral	Trib. to Long Creek	43.380835	-96.903628	Vermillion	10170102	Desktop	3.10	12.28	0.08
Lincoln	SDT-409	S_9_LI_006_DT	Intermittent	Trib. to Long Creek	43.381036	-96.894770	Vermillion	10170102	Desktop	3.54	10.02	0.07
Lincoln	SDT-409	S_10_LI_023_DT	Pond	--	43.380634	-96.872783	Vermillion	10170102	Desktop	4.65	0.00	0.16
Lincoln	SDT-409	S_10_LI_022_DT	Ephemeral	Trib. to Long Creek	43.381421	-96.859912	Vermillion	10170102	Desktop	5.29	0.00	0.01
Lincoln	SDT-409	S_10_LI_021_DT	Ephemeral	Trib. to Long Creek	43.382904	-96.859236	Vermillion	10170102	Desktop	5.40	3.01	0.02
Lincoln	SDT-409	S_10_LI_921_DT	Ephemeral	Trib. to Beaver Creek	43.391045	-96.855354	Lower Big Sioux	10170203	Desktop	5.99	0.00	0.04
Lincoln	SDT-409	S_10_LI_020_DT	Ephemeral	Trib. to Beaver Creek	43.393102	-96.855466	Lower Big Sioux	10170203	Desktop	6.20	0.00	0.02
Lincoln	SDT-409	S_10_LI_019_DT	Perennial	Beaver Creek	43.397352	-96.855909	Lower Big Sioux	10170203	Desktop	6.46	30.55	0.23
Lincoln	SDT-409	S2008LI012	Ephemeral	Trib. to Beaver Creek	43.412251	-96.848445	Lower Big Sioux	10170203	Survey	7.84	8.89	0.06
McPherson	NDM-106	S_10_MP_001_DT	Pond	--	45.733596	-99.161457	Snake	10160008	Desktop	4.65	0.00	0.01
McPherson	NDM-106	S_9_MP_006_DT	Intermittent	Trib. to Spring Creek	45.851073	-99.367984	West Missouri Coteau	10130106	Desktop	20.24	12.23	0.08
McPherson	NDM-106	S_9_MP_005_DT	Ephemeral	Trib. to Spring Creek	45.862407	-99.376834	West Missouri Coteau	10130106	Desktop	21.15	28.13	0.13
McPherson	NDM-106	S_9_MP_002_DT	Intermittent	Spring Creek	45.894349	-99.387128	Upper Lake Oahe	10130102	Desktop	23.71	23.89	0.18
McPherson	NDM-106	S_9_MP_001_DT	Intermittent	Trib. to Spring Creek	45.902929	-99.385863	Upper Lake Oahe	10130102	Desktop	24.32	15.30	0.10
McPherson	NDT-211	S_11_MP_015_DT	Ephemeral	Trib. to Elm River	45.924016	-98.725176	Elm	10160004	Desktop	91.96	1.16	0.01
McPherson	NDT-211	S_11_MP_014_DT	Ephemeral	Trib. to Elm River	45.911770	-98.744063	Elm	10160004	Desktop	93.24	8.03	0.06
McPherson	NDT-211	S_11_MP_013_DT	Ephemeral	Trib. to Elm River	45.911606	-98.766760	Elm	10160004	Desktop	94.33	183.41	0.15
McPherson	NDT-211	S_11_MP_013_DT	Ephemeral	Trib. to Elm River	45.911558	-98.769521	Elm	10160004	Desktop	94.45	262.75	0.19
McPherson	NDT-211	S_11_MP_012_DT	Ephemeral	Trib. to Elm River	45.910538	-98.797559	Elm	10160004	Desktop	95.83	5.20	0.03
McPherson	NDT-211	S_11_MP_011_DT	Ephemeral	Trib. to Elm River	45.910810	-98.803093	Elm	10160004	Desktop	96.10	0.00	0.03
McPherson	NDT-211	S_11_MP_009_DT	Ephemeral	Trib. to Elm River	45.910581	-98.806930	Elm	10160004	Desktop	96.29	0.00	0.01
McPherson	NDT-211	S_11_MP_010_DT	Pond	--	45.910521	-98.807247	Elm	10160004	Desktop	96.30	0.00	0.07
McPherson	NDT-211	S_11_MP_908_DT	Ephemeral	Trib. to Elm River	45.911369	-98.821728	Elm	10160004	Desktop	97.00	1.39	0.02
McPherson	NDT-211	S_10_MP_008_DT	Ephemeral	Trib. to Elm River	45.924495	-98.876410	Elm	10160004	Desktop	100.22	1.51	0.01
McPherson	NDT-211	S_10_MP_007_DT	Intermittent	Trib. to Elm River	45.919158	-98.912054	Elm	10160004	Desktop	102.08	4.85	0.03
McPherson	NDT-211	S_10_MP_006_DT	Ephemeral	Trib. to Elm River	45.911723	-98.929030	Elm	10160004	Desktop	103.08	4.93	0.03
McPherson	NDT-211	S_10_MP_005_DT	Ephemeral	Trib. to Elm River	45.908363	-98.936632	Elm	10160004	Desktop	103.52	1.03	0.01
McPherson	NDT-211	S_10_MP_004_DT	Ephemeral	Trib. to Dry Run	45.861556	-98.978916	Elm	10160004	Desktop	107.50	2.21	0.02
McPherson	NDT-211	S_10_MP_003_DT	Ephemeral	Trib. to Willow Creek	45.842571	-98.986068	Elm	10160004	Desktop	108.85	1.46	0.01
McPherson	NDT-211	S_11_MP_016_DT	Ephemeral	Trib. to Willow Creek	45.804967	-98.998916	Elm	10160004	Desktop	111.72	0.00	0.02

Waterbody Crossing Table												
County	Route ID	Feature ID	Feature Type	Feature Name	Latitude	Longitude	HUC 8 Watershed Name	HUC 8 Watershed No.	Survey or Desktop	Approx. MP	ESC Crossing Length (ft)	ESC Total Acres
McPherson	NDT-211	S_11_MP_016_DT	Ephemeral	Trib. to Willow Creek	45.804279	-98.998033	Elm	10160004	Desktop	111.78	3.17	0.03
McPherson	NDT-211	S_9_MP_014_DT	Intermittent	Trib. to Foot Creek	45.771940	-98.990496	Upper James	10160003	Desktop	114.44	34.69	0.20
McPherson	NDT-211	S2014MP014	Ephemeral	Trib. to Foot Creek	45.754186	-99.008359	Upper James	10160003	Survey	115.96	0.00	0.01
McPherson	NDT-211	S_9_MP_012_DT	Ephemeral	Trib. to Snake Creek	45.735198	-99.036877	Snake	10160008	Desktop	118.06	12.57	0.09
McPherson	NDT-211	S_9_MP_009_DT	Intermittent	Trib. to Snake Creek	45.729902	-99.059143	Snake	10160008	Desktop	119.21	18.15	0.16
McPherson	SDM-105	S2001MP016	Ephemeral	Trib. to Snake Creek	45.606116	-98.937289	Snake	10160008	Survey	102.33	4.04	0.05
McPherson	SDM-105	S2014MP035	Ephemeral	Trib. to Snake Creek	45.630687	-98.950089	Snake	10160008	Survey	104.16	17.31	0.12
McPherson	SDM-105	S2014MP034	Intermittent	Trib. to Snake Creek	45.634752	-98.950943	Snake	10160008	Survey	104.41	45.67	0.43
McPherson	SDM-105	S2014MP034	Intermittent	Trib. to Snake Creek	45.635122	-98.952013	Snake	10160008	Survey	104.52	0.00	0.03
McPherson	SDM-105	S_2_MP_073_DT	Intermittent	Trib. to Snake Creek	45.635292	-98.952910	Snake	10160008	Desktop	104.57	62.16	0.36
McPherson	SDM-105	S2014MP033	Intermittent	Trib. to Snake Creek	45.636100	-98.953343	Snake	10160008	Survey	104.58	43.70	0.08
McPherson	SDM-105	S_2_MP_073_DT	Intermittent	Trib. to Snake Creek	45.635931	-98.953655	Snake	10160008	Desktop	104.59	0.00	0.01
McPherson	SDM-105	S2001MP102	Ephemeral	Trib. to Snake Creek	45.654950	-98.976658	Snake	10160008	Survey	106.36	4.04	0.05
McPherson	SDM-105	S2001MP103	Natural Pond	--	45.666676	-98.982720	Snake	10160008	Survey	107.22	0.00	0.23
McPherson	SDM-105	S2244MP006	Manmade Pond	--	45.698606	-99.017221	Snake	10160008	Survey	110.15	0.00	0.03
McPherson	SDM-105	S3919MP005	Ephemeral	Trib. to Snake Creek	45.706246	-99.026856	Snake	10160008	Survey	110.88	9.89	0.09
McPherson	SDM-105	S_9_MP_015_DT	Intermittent	Trib. to Snake Creek	45.720079	-99.058247	Snake	10160008	Desktop	112.71	18.47	0.14
Miner	SDM-104	S2015MI005	Intermittent	Trib. to West Fork Vermillion River	44.097980	-97.458702	Vermillion	10170102	Survey	109.26	6.44	0.04
Miner	SDM-104	S2014MI006	Ephemeral	Trib. to West Fork Vermillion River	44.120402	-97.511643	Vermillion	10170102	Survey	112.46	0.00	0.01
Miner	SDM-104	S2014MI005	Ephemeral	Trib. to West Fork Vermillion River	44.122490	-97.518858	Vermillion	10170102	Survey	112.87	8.29	0.08
Miner	SDT-210	S_12_BR_903_DT	Perennial	--	45.420653	-98.689153	Snake	10160008	Desktop	8.78	0.00	0.58
Miner	SDT-410	S_10_MR_010_DT	Intermittent	Jim Creek	44.019708	-97.818659	Lower James	10160011	Desktop	24.27	12.95	0.08
Miner	SDT-410	S_10_MR_010_DT	Intermittent	Jim Creek	44.021734	-97.817802	Lower James	10160011	Desktop	24.42	0.00	0.00
Miner	SDT-410	S_9_MR_010_DT	Intermittent	Trib. to Jim Creek	44.028911	-97.787084	Lower James	10160011	Desktop	26.19	7.45	0.10
Miner	SDT-410	S_10_MR_001_DT	Ephemeral	Trib. to Jim Creek	44.030152	-97.782129	Lower James	10160011	Desktop	26.43	4.28	0.01
Miner	SDT-410	S_9_MR_088_DT	Intermittent	Pooley Creek	44.038987	-97.727895	Lower James	10160011	Desktop	29.38	5.01	0.04
Miner	SDT-410	S_9_MR_006_DT	Ephemeral	Trib. to Pooley Creek	44.044007	-97.721818	Lower James	10160011	Desktop	29.85	0.00	0.02
Miner	SDT-410	S_9_MR_005_DT	Intermittent	Pooley Creek	44.043809	-97.721559	Lower James	10160011	Desktop	29.85	40.91	0.26
Miner	SDT-410	S_9_MR_006_DT	Ephemeral	Trib. to Pooley Creek	44.044813	-97.720495	Lower James	10160011	Desktop	29.93	0.00	0.04
Miner	SDT-410	S_9_MR_004_DT	Intermittent	Pooley Creek	44.051238	-97.705162	Lower James	10160011	Desktop	30.81	35.41	0.48

Waterbody Crossing Table												
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Miner	SDT-410	S_9_MR_003_DT	Perennial	Rock Creek	44.059857	-97.659944	Lower James	10160011	Desktop	33.21	12.65	0.14
Miner	SDT-410	S_10_MR_002_DT	Pond	--	44.071237	-97.633368	Lower James	10160011	Desktop	34.82	0.00	0.17
Miner	SDT-410	S_10_MR_012_DT	Ephemeral	Trib. to Rock Creek	44.073727	-97.626964	Lower James	10160011	Desktop	35.23	7.67	0.04
Miner	SDT-410	S_10_MR_001_DT	Manmade Pond	--	44.073573	-97.616181	Lower James	10160011	Desktop	35.77	30.94	0.08
Miner	SDT-410	S_11_MR_013_DT	Ephemeral	Trib. to Rock Creek	44.073515	-97.616142	Lower James	10160011	Desktop	35.78	3.22	0.02
Miner	SDT-410	S_10_MR_001_DT	Manmade Pond	--	44.073518	-97.616079	Lower James	10160011	Desktop	35.78	32.34	0.12
Miner	SDT-410	S_10_MR_014_DT	Ephemeral	Trib. to Rock Creek	44.073951	-97.614713	Lower James	10160011	Desktop	35.88	0.00	0.06
Miner	SDT-410	S_10_MR_015_DT	Ephemeral	Trib. to Rock Creek	44.073566	-97.601812	Lower James	10160011	Desktop	36.49	0.00	0.08
Miner	SDT-410	S_10_MR_005_DT	Ephemeral	Trib. to Rock Creek	44.083957	-97.577773	Lower James	10160011	Desktop	37.92	1.47	0.01
Miner	SDT-410	S_10_MR_006_DT	Ephemeral	Trib. to Rock Creek	44.084545	-97.577170	Lower James	10160011	Desktop	37.93	0.00	0.01
Miner	SDT-410	S_10_MR_007_DT	Ephemeral	Trib. to Rock Creek	44.085733	-97.573957	Lower James	10160011	Desktop	38.13	1.14	0.01
Miner	SDT-410	S_10_MR_008_DT	Pond	--	44.086289	-97.569762	Lower James	10160011	Desktop	38.34	0.00	0.16
Miner	SDT-410	S_9_MR_002_DT	Intermittent	West Fork Vermillion River	44.121774	-97.543088	Vermillion	10170102	Desktop	41.45	2.28	0.02
Miner	SDT-410	S_9_MR_001_DT	Intermittent	Trib. to West Fork Vermillion River	44.123905	-97.532610	Vermillion	10170102	Desktop	41.99	20.59	0.22
Minnehaha	SDM-104	S2008MN017	Ephemeral	Trib. to Skunk Creek	43.503428	-96.941194	Lower Big Sioux	10170203	Survey	54.71	1,040.40	0.17
Minnehaha	SDM-104	S2008MN020	Manmade Pond	--	43.505052	-96.940885	Lower Big Sioux	10170203	Survey	54.77	0.00	0.22
Minnehaha	SDM-104	S2015MN035	Intermittent	Trib. to Skunk Creek	43.507010	-96.941895	Lower Big Sioux	10170203	Survey	55.00	0.00	0.02
Minnehaha	SDM-104	S2005MN064	Perennial	Trib. to Skunk Creek	43.507802	-96.942380	Lower Big Sioux	10170203	Survey	55.04	7.96	0.06
Minnehaha	SDM-104	S2020MN002	Ephemeral	Trib. to Skunk Creek	43.538176	-96.983713	Lower Big Sioux	10170203	Survey	58.40	1.74	0.02
Minnehaha	SDM-104	S2005MN065	Ephemeral	Trib. to Skunk Creek	43.542747	-96.984292	Lower Big Sioux	10170203	Survey	58.74	0.00	0.04
Minnehaha	SDM-104	S2005MN068	Ephemeral	Trib. to Skunk Creek	43.590937	-96.981298	Lower Big Sioux	10170203	Survey	62.21	3.01	0.02
Minnehaha	SDM-104	S_9_MN_003_DT	Ephemeral	Trib. to Skunk Creek	43.623309	-96.987216	Lower Big Sioux	10170203	Desktop	64.75	20.88	0.14
Minnehaha	SDM-104	S_9_MN_002_DT	Ephemeral	Trib. to Skunk Creek	43.630323	-96.988756	Lower Big Sioux	10170203	Desktop	65.24	4.31	0.03
Minnehaha	SDM-104	S_9_MN_001_DT	Ephemeral	Trib. to Skunk Creek	43.633355	-96.992139	Lower Big Sioux	10170203	Desktop	65.55	4.03	0.03
Minnehaha	SDM-104	S_9_MN_001_DT	Ephemeral	Trib. to Skunk Creek	43.635644	-96.992969	Lower Big Sioux	10170203	Desktop	65.72	5.07	0.04
Minnehaha	SDM-104	S2005MN069	Ephemeral	Trib. to West Branch Skunk Creek	43.684549	-97.042893	Lower Big Sioux	10170203	Survey	71.25	1.63	0.02
Minnehaha	SDM-104	S2008MN021	Natural Pond	--	43.702515	-97.073297	Lower Big Sioux	10170203	Survey	73.38	0.00	0.17
Minnehaha	SDM-104	S_2_MN_067_DT	Ephemeral	West Branch Skunk Creek	43.754867	-97.095574	Lower Big Sioux	10170203	Desktop	77.29	0.00	0.00
Minnehaha	SDM-104	S2002MI075	Ephemeral	West Branch Skunk Creek	43.755306	-97.096189	Lower Big Sioux	10170203	Survey	77.32	2.65	0.03
Minnehaha	SDM-104	S2011MN011	Ephemeral	Trib. to West Branch Skunk Creek	43.792386	-97.113410	Lower Big Sioux	10170203	Survey	80.13	0.00	0.01

Waterbody Crossing Table												
County	Route ID	Feature ID	Feature Type	Feature Name	Latitude	Longitude	HUC 8 Watershed Name	HUC 8 Watershed No.	Survey or Desktop	Approx. MP	ESC Crossing Length (ft)	ESC Total Acres
Minnehaha	SDM-104	S2006MN023	Ephemeral	Trib. to Buffalo Creek	43.806729	-97.120740	Lower Big Sioux	10170203	Survey	81.25	5.44	0.04
Sanborn	SDT-410	S_9_DV_033_DT	Perennial	James River	43.850948	-97.993174	Lower James	10160011	Desktop	7.34	159.27	1.14
Sanborn	SDT-410	S_10_SN_003_DT	Ephemeral	Trib. to James River	43.890459	-97.921762	Lower James	10160011	Desktop	12.67	5.32	0.04
Sanborn	SDT-410	S_10_SN_004_DT	Ephemeral	Trib. to James River	43.897919	-97.921285	Lower James	10160011	Desktop	13.40	0.00	0.21
Sanborn	SDT-410	S_9_SN_003_DT	Intermittent	Dry Run	43.936200	-97.916508	Lower James	10160011	Desktop	15.88	11.87	0.10
Sanborn	SDT-410	S_10_SN_002_DT	Intermittent	Jim Creek	43.986827	-97.875698	Lower James	10160011	Desktop	20.22	26.25	0.21
Spink	SDL-320	S2011SP004	Manmade Pond	--	44.878844	-98.698050	Snake	10160008	Survey	70.98	0.00	0.02
Spink	SDL-320	S_9_SP_555_DT	Manmade Pond	--	44.898993	-98.599431	Turtle	10160009	Desktop	76.22	0.00	0.10
Spink	SDL-320	S3333SP001	Manmade Pond	--	44.899031	-98.599172	Turtle	10160009	Survey	76.22	0.00	0.18
Spink	SDL-320	S2005SP011	Manmade Pond	--	44.903203	-98.558070	Turtle	10160009	Survey	78.29	0.00	0.05
Spink	SDL-320	S2011SP003	Ephemeral	Trib. to Turtle Creek	44.903343	-98.553521	Turtle	10160009	Survey	78.51	2.04	0.01
Spink	SDL-320	S2022SP005	Ephemeral	Trib. to Turtle Creek	44.917500	-98.503133	Turtle	10160009	Survey	81.48	0.00	0.07
Spink	SDM-105	S2003SP039	Natural Pond	--	44.664520	-98.017419	Middle James	10160006	Survey	9.77	0.00	0.01
Spink	SDM-105	S2007SP007	Intermittent	Foster Creek	44.727564	-98.056676	Middle James	10160006	Survey	15.11	51.56	0.21
Spink	SDM-105	S2007SP006	Ephemeral	Trib. to Timber Creek	44.766117	-98.095472	Middle James	10160006	Survey	18.49	0.00	0.00
Spink	SDM-105	S2007SP005	Ephemeral	Trib. to Timber Creek	44.768823	-98.096745	Middle James	10160006	Survey	18.68	6.45	0.04
Spink	SDM-105	S_2_SP_102_DT	Ephemeral	Trib. to Timber Creek	44.769121	-98.096251	Middle James	10160006	Desktop	18.69	0.00	0.00
Spink	SDM-105	S2007SP004	Ephemeral	Trib. to Timber Creek	44.771543	-98.099858	Middle James	10160006	Survey	18.98	26.29	0.23
Spink	SDM-105	S2007SP031	Ephemeral	Trib. to Timber Creek	44.785733	-98.115556	Middle James	10160006	Survey	20.26	3.00	0.02
Spink	SDM-105	S_12_SP_001_DT	Pond	--	44.812599	-98.118944	Middle James	10160006	Desktop	22.24	0.00	0.05
Spink	SDM-105	S_9_SP_104_DT	Perennial	Timber Creek	44.909196	-98.211307	Middle James	10160006	Desktop	31.68	0.00	0.25
Spink	SDM-105	S2023SP020	Perennial	Timber Creek	44.909801	-98.211256	Middle James	10160006	Survey	31.69	76.53	0.31
Spink	SDM-105	S2015SP014	Intermittent	Timber Creek	44.908628	-98.213707	Middle James	10160006	Survey	31.70	0.00	0.05
Spink	SDM-105	S2015SP015	Perennial	Timber Creek	44.909462	-98.214579	Middle James	10160006	Survey	31.79	0.00	0.10
Spink	SDM-105	S_9_SP_105_DT	Perennial	Timber Creek	44.908608	-98.214986	Middle James	10160006	Desktop	31.80	0.00	0.24
Spink	SDM-105	S2023SP019	Perennial	Timber Creek	44.911513	-98.213032	Middle James	10160006	Survey	31.85	0.00	0.04
Spink	SDM-105	S_9_SP_106_DT	Perennial	Timber Creek	44.911624	-98.213154	Middle James	10160006	Desktop	31.85	0.00	0.00
Spink	SDM-105	S2004SP008	Ephemeral	Trib. to Dry Run	45.004693	-98.299883	Middle James	10160006	Survey	40.22	4.04	0.03
Spink	SDM-105	S3112SP002	Perennial	Dry Run Creek	45.018653	-98.310146	Middle James	10160006	Survey	41.34	82.05	0.71
Spink	SDM-105	S_9_SP_997_DT	Perennial	James River	45.099705	-98.436378	Middle James	10160006	Desktop	50.15	68.70	0.49

Waterbody Crossing Table												
County	Route ID	Feature ID	Feature Type	Feature Name	Latitude	Longitude	HUC 8 Watershed Name	HUC 8 Watershed No.	Survey or Desktop	Approx. MP	ESC Crossing Length (ft)	ESC Total Acres
Spink	SDM-105	S_9_SP_558_DT	Intermittent	Trib. to James River	45.107501	-98.470162	Middle James	10160006	Desktop	52.00	2.01	0.02
Spink	SDM-105	S_9_SP_559_DT	Ephemeral	Trib. to James River	45.107408	-98.477610	Middle James	10160006	Desktop	52.37	3.74	0.02
Spink	SDM-105	S_9_SP_560_DT	Perennial	Snake Creek	45.131279	-98.591431	Snake	10160008	Desktop	58.47	60.61	0.39
Spink	SDM-105	S_9_SP_561_DT	Perennial	Snake Creek	45.157744	-98.624726	Snake	10160008	Desktop	61.48	94.03	0.61
Spink	SDM-105	S_9_SP_564_DT	Ephemeral	Trib. to Snake Creek	45.235095	-98.614725	Snake	10160008	Desktop	67.29	18.45	0.05
Spink	SDM-105	S_9_SP_565_DT	Intermittent	Trib. to Snake Creek	45.239213	-98.615204	Snake	10160008	Desktop	67.56	2.02	0.02
Spink	SDT-209	S_9_SP_847_DT	Ephemeral	Trib. to James River	44.929197	-98.497963	Middle James	10160006	Desktop	0.98	5.29	0.04
Spink	SDT-209	S_9_SP_847_DT	Ephemeral	Trib. to James River	44.928106	-98.497097	Middle James	10160006	Desktop	1.01	0.00	0.02
Spink	SDT-209	S_9_SP_557_DT	Perennial	James River	44.929165	-98.488546	Middle James	10160006	Desktop	1.43	114.03	0.87
Spink	SDT-209	S2001SP021	Ephemeral	Trib. to James River	44.931997	-98.442201	Middle James	10160006	Survey	3.74	0.00	0.00
Spink	SDT-209	S2015SP017	Perennial	Dry Run	44.956839	-98.325756	Middle James	10160006	Survey	9.86	99.28	0.67
Spink	SDT-209	S2015SP017	Perennial	Dry Run	44.957294	-98.324440	Middle James	10160006	Survey	9.94	0.00	0.19
Spink	SDT-209	S2015SP016	Ephemeral	Trib. to Dry Run	44.959997	-98.289100	Middle James	10160006	Survey	11.67	4.00	0.03
Sully	SDL-320	S2007SU009	Ephemeral	Trib. to Medicine Knoll Creek	44.693193	-100.060569	Lower Lake Oahe	10130105	Survey	0.01	1.02	0.02
Sully	SDL-320	S2015SU041	Ephemeral	Trib. to Medicine Knoll Creek	44.692374	-100.060407	Lower Lake Oahe	10130105	Survey	0.01	0.00	0.00
Sully	SDL-320	S2007SU010	Manmade Pond	--	44.693076	-100.054397	Lower Lake Oahe	10130105	Survey	0.30	0.00	0.03
Sully	SDL-320	S3919SU004	Ephemeral	Trib. to Medicine Knoll Creek	44.729994	-99.823253	Medicine Knoll	10140103	Survey	12.36	8.19	0.20
Sully	SDL-320	S2015SU021	Perennial	Medicine Knoll Creek	44.746378	-99.715805	Medicine Knoll	10140103	Survey	17.72	26.46	0.38
Turner	SDM-104	S2005LI063	Ephemeral	Trib. to Beaver Creek	43.460461	-96.924681	Lower Big Sioux	10170203	Survey	50.98	5.00	0.03
Turner	SDM-104	S2005TU051	Ephemeral	Trib. to Beaver Creek	43.460706	-96.924863	Lower Big Sioux	10170203	Survey	50.99	3.00	0.03
Turner	SDM-104	S_9_TU_061_DT	Ephemeral	Trib. to Beaver Creek	43.460078	-96.924863	Lower Big Sioux	10170203	Desktop	50.99	0.00	0.00
Turner	SDM-104	S2005TU050	Ephemeral	Trib. to Beaver Creek	43.461246	-96.925410	Lower Big Sioux	10170203	Survey	51.06	3.00	0.02
Turner	SDM-104	S2023TU006	Ephemeral	Trib. to Beaver Creek	43.462937	-96.925013	Lower Big Sioux	10170203	Survey	51.17	0.00	0.01
Turner	SDM-104	S_9_TU_060_DT	Pond	--	43.470659	-96.935394	Lower Big Sioux	10170203	Desktop	52.10	32.21	0.28
Turner	SDM-104	S_9_TU_059_DT	Ephemeral	Trib. to Skunk Creek	43.489122	-96.931625	Lower Big Sioux	10170203	Desktop	53.44	2.94	0.01
Turner	SDM-104	S2005TU063	Intermittent	Trib. to Skunk Creek	43.497548	-96.936222	Lower Big Sioux	10170203	Survey	54.12	0.00	0.04
Turner	SDT-212	S_9_TU_003_DT	Pond	--	43.436032	-97.272401	Vermillion	10170102	Desktop	0.00	0.00	0.12
Turner	SDT-212	S_9_TU_003_DT	Pond	--	43.436098	-97.275259	Vermillion	10170102	Desktop	0.00	0.00	0.01
Turner	SDT-212	S_9_TU_001_DT	Intermittent	Trib. to West Fork Vermillion River	43.436397	-97.276538	Vermillion	10170102	Desktop	0.00	0.00	0.06
Turner	SDT-212	S_9_TU_002_DT	Intermittent	Trib. to West Fork Vermillion River	43.436541	-97.276426	Vermillion	10170102	Desktop	0.00	0.00	0.05

Waterbody Crossing Table												
County	Route ID	Feature ID	Feature Type	Feature Name	Latitude	Longitude	HUC 8 Watershed Name	HUC 8 Watershed No.	Survey or Desktop	Approx. MP	ESC Crossing Length (ft)	ESC Total Acres
Turner	SDT-212	S_10_TU_002_DT	Ephemeral	Trib. to West Fork Vermillion River	43.440532	-97.278715	Vermillion	10170102	Desktop	0.25	4.03	0.03
Turner	SDT-212	S_10_TU_009_DT	Pond	--	43.440415	-97.278157	Vermillion	10170102	Desktop	0.25	0.00	0.04
Turner	SDT-212	S_10_TU_005_DT	Perennial	West Fork Vermillion River	43.450888	-97.271897	Vermillion	10170102	Desktop	1.09	54.98	0.40
Turner	SDT-212	S_10_TU_006_DT	Ephemeral	Trib. to West Fork Vermillion River	43.452062	-97.263895	Vermillion	10170102	Desktop	1.51	7.05	0.07
Turner	SDT-212	S_10_TU_007_DT	Ephemeral	Trib. to West Fork Vermillion River	43.452190	-97.259348	Vermillion	10170102	Desktop	1.73	10.13	0.09
Turner	SDT-212	S_10_TU_008_DT	Ephemeral	Trib. to West Fork Vermillion River	43.452285	-97.257841	Vermillion	10170102	Desktop	1.83	5.25	0.03
Turner	SDT-212	S_10_TU_010_DT	Ephemeral	Trib. to West Fork Vermillion River	43.452030	-97.252185	Vermillion	10170102	Desktop	2.11	3.02	0.01
Turner	SDT-212	S_10_TU_009_DT	Ephemeral	Trib. to West Fork Vermillion River	43.452627	-97.251751	Vermillion	10170102	Desktop	2.12	0.00	0.00
Turner	SDT-212	S_9_TU_014_DT	Ephemeral	Trib. to West Fork Vermillion River	43.456811	-97.225553	Vermillion	10170102	Desktop	3.55	52.74	0.43
Turner	SDT-212	S_9_TU_019_DT	Intermittent	Trib. to West Fork Vermillion River	43.467436	-97.204087	Vermillion	10170102	Desktop	4.92	11.62	0.08
Turner	SDT-212	S_9_TU_009_DT	Intermittent	Trib. to East Fork Vermillion River	43.469623	-97.186405	Vermillion	10170102	Desktop	5.81	19.76	0.16
Turner	SDT-212	S_9_TU_010_DT	Perennial	East Fork Vermillion River	43.481581	-97.128768	Vermillion	10170102	Desktop	8.93	94.13	0.43
Turner	SDT-212	S_9_TU_038_DT	Perennial	Elce Creek	43.484765	-97.106017	Vermillion	10170102	Desktop	10.13	18.78	0.15
Turner	SDT-212	S_9_TU_012_DT	Ephemeral	Trib. to Camp Creek	43.487372	-97.084116	Vermillion	10170102	Desktop	11.24	24.40	0.14
Turner	SDT-212	S_9_TU_054_DT	Perennial	Long Creek	43.494500	-97.048012	Vermillion	10170102	Desktop	13.16	18.51	0.17
Turner	SDT-212	S3112TU003	Intermittent	Trib. to Long Creek	43.494463	-97.034528	Vermillion	10170102	Survey	13.83	4.75	0.04
Turner	SDT-409	S_9_TU_062_DT	Manmade Pond	--	43.372666	-96.959408	Vermillion	10170102	Desktop	0.06	41.26	0.88