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### Historical Observations and Identifications of Plants and Animals in the Vicinity of Engineer Cantonment in 1819-1820

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APPENDIX E  
 HISTORICAL OBSERVATIONS AND IDENTIFICATIONS OF PLANTS AND ANIMALS  
 IN THE VICINITY OF ENGINEER CANTONMENT IN 1819–1820

Hugh H. Genoways, Brett C. Ratcliffe, Carl R. Falk, and John R. Bozell

Historical observations and identifications of plants and animals in the vicinity of Engineer Cantonment in 1819–1820 (James 1822) are shown below in Roman and Roman italic print. Specimens identified through phytoarcheological and zooarcheological analysis of materials and believed to be reasonably associated or contemporaneous with the Long Expedition use of the site (AU4) are shown in boldface. Species present in both the historical and archeological data are marked by an asterisk (\*). References used in this compilation include Benedict (1996), Brewer (1970 [1840]), Conant and Collins (1991), Ducey (2000), Evans (1997), Falk et al. (this volume), Genoways et al. (2008), Goodman and Lawson (1995), Jones (1964), Kaul et al. (2011), Lynch (1985), Nepstad-Thornberry and Bozell (this volume), Ord (1815), Page et al. (2013), Peyton (2000), Picha (this volume), Rhoads (1894), Sharpe et al. (2001), Turgeon et al. (1998), and Wilson and Reeder (2005). Modified and revised from Genoways and Ratcliffe (2008). In comments, gm = grams.

| Scientific name                       | Common name                   | Comments   |
|---------------------------------------|-------------------------------|--|
| <b>PLANTS</b>                         |                               |  |
| <i>cf. Acer sp.</i>                   | <b>Maple</b>                  | <b>Represented by 0.1 gm charcoal sample in the phytoarcheological material</b>  |
| <i>Viburnum lentago</i>               | Nannyberry                    | Omaha used to make arrows  |
| <i>Sagittaria</i>                     | Arrowhead                     | In marshes along Missouri River  |
| [probably] <i>Alisma triviale</i>     | Water plantain                | In marshes along Missouri River  |
| <i>Rhus glabra</i>                    | Smooth sumac                  | Goodman and Lawson 1995:126, 331   |
| <i>Toxicodendron radicans negundo</i> | Poison ivy                    | Goodman and Lawson 1995:126  |
| <i>Toxicodendron rydbergii</i>        | Poison ivy                    | Goodman and Lawson 1995:126  |
| <i>Heracleum lanatum</i>              | Cow parsnip                   | Goodman and Lawson 1995:321  |
| <i>Apocynum androsaemifolium</i>      | Dogbane                       | Goodman and Lawson 1995:127  |
| <i>Panax quinquefolius</i>            | American ginseng              | Goodman and Lawson 1995:128; endangered (Kaul 2004)  |
| <i>Echinacea augustifolia</i>         | Narrow-leaf purple coneflower | Goodman and Lawson 1995:163  |
| <i>Prenanthes aspera</i>              | Rattlesnake root              | On loess hills bordering Missouri River  |
| <i>Corylus americana ?</i>            | <b>Hazelnut</b>               | <b>Represented by 12.4 gm charcoal sample in the phytoarcheological material which compare favorably with birch and alder but neither occur in the Engineer Cantonment area and are more likely the morphologically similar hazelnut</b> |
| <i>Ostrya virginiana</i>              | Hop-hornbeam or ironwood      | Along Missouri River; Omaha and Pawnees used to make bows  |
| <i>Gymnocladus dioica</i>             | Kentucky coffee-tree          | Fruits substituted for coffee making a “palatable and wholesome beverage”  |
| <i>Lobelia inflata</i>                | Indian tobacco                | Omaha used as tobacco  |
| <i>Celtis sp.</i>                     | <b>Hackberry</b>              | <b>Represented by 123 seeds and 7.7 gm charcoal sample in the phytoarcheological material</b>  |

| Scientific name                                      | Common name                       | Comments   |
|--|-----------------------------------|--|
| <i>Chenopodium simplex</i>                           | Maple-leaved goosefoot            | Torrey 1827:239; Goodman and Lawson 1995:155   |
| <b><i>Coffea</i> sp.</b>                             | <b>Coffee</b>                     | <b>2 beans in the phytoarcheological material</b>  |
| <i>Cornus sericea</i>                                | Red willow                        |  |
| <i>Carex</i> sp.                                     | Sedges                            | Numerous species occur in the area; in meadows along Missouri River  |
| <i>Apios americana</i>                               | American potato bean or groundnut | Woodlands filled with “pea vines;” excellent pasturage for horses and cattle; tubers boiled and eaten by soldiers  |
| <i>Oxytropis lambertii</i>                           | Purple locoweed                   | Goodman and Lawson 1995:233; on loess hills bordering the Missouri River (p. 422)  |
| <i>Quercus</i> sp.*                                  | Oak                               | Small growth of timber in valleys between loess hills; several species in area; <b>represented by 44.7 gm charcoal sample in the phytoarcheological material</b>   |
| <i>Elodea</i> sp./ <i>Najas</i> sp.                  | frogbit family                    | Could be one of at least three species; in the marshes along the Missouri River  |
| <i>Ellisia nyctelea</i>                              | Waterpod                          | Goodman and Lawson 1995:213  |
| [probably] <i>Carya cordiformis</i>                  | Bitternut hickory                 | Along Missouri River; Omaha and Pawnees used to make bows  |
| <b><i>Juglans nigra</i></b>                          | <b>Black walnut</b>               | <b>Represented by six partial nut shells and 4 gm charcoal sample in the phytoarcheological material</b>   |
| <i>Scutellaria parvula</i> var. <i>missouriensis</i> | Little skullcap                   | Torrey, 1827:232; Goodman and Lawson 1995:217  |
| <i>Allium</i> sp.                                    | Onion                             | Growing along the valley of the Missouri River; several species in area  |
| <i>Linum rigidum</i>                                 | Stiff flax                        | Goodman and Lawson 1995:242  |
| <i>Maclura pomifera</i>                              | Osage orange                      | Omaha using as bow wood  |
| <i>Nelumbo lutea</i>                                 | American lotus                    | May be disappearing from plains because of eradication by humans and habitat loss (Kaul 1986:81)   |
| [probably] <i>Fraxinus pennsylvanica</i>             | Green ash                         | Along Boyer Creek  |
| <b><i>Juniperus virginiana</i> ?</b>                 | <b>Red cedar</b>                  | <b>Represented by 5.3 gm charcoal sample and one wood sample in the phytoarcheological material, which compare favorably with pine but does not occur in the Engineer Cantonment area and is more likely the morphologically similar red cedar</b> |
| [possibly] <i>Phragmites australis</i>               | Common reed                       | In meadows along Missouri River  |
| <i>Polypogon</i> sp.                                 | rabbitsfoot grass                 | In meadows along Missouri River  |
| <i>Spartina</i> sp.                                  | cordgrass                         | In meadows along Missouri River  |
| <b><i>Zea mays</i></b>                               | <b>Corn, maize</b>                | <b>Represented by 33 cobs and cob fragments and one kernel sample in the phytoarcheological material</b>   |

| Scientific name                                | Common name             | Comments   |
|--|-------------------------|--|
| <i>Zizania palustris</i>                       | Interior wild-rice      |  |
| <i>Anemone patens</i>                          | Pasque flower           | Goodman and Lawson 1995:284  |
| <i>Thalictrum dasycarpum</i>                   | Purple meadow-rue       | Goodman and Lawson 1995:289  |
| [probably] <i>Crataegus mollis</i>             | Downy hawthorn          | Fruits recovered from under snow and eaten by Omaha  |
| <i>Drymocallis arguta</i>                      | Tall cinquefoil         | Goodman and Lawson 1995:292  |
| <i>Prunus americana</i>                        | American plums          |  |
| <i>Rubus occidentalis</i>                      | Black raspberry         | Torrey 1827:196; Goodman and Lawson 1995:296   |
| <i>Galium circaezans</i>                       | Woods bedstraw          | Goodman and Lawson 1995:298  |
| <i>Populus deltoides</i>                       | Plains cottonwood       | Along opposite bank of Missouri River and on hills to the west of Engineer Cantonment  |
| <b><i>Populus</i> sp.</b>                      | <b>Cottonwood</b>       | <b>Represented by 1.9 gm charcoal sample in the phytoarcheological material</b>  |
| <i>Salix humilis</i>                           | Prairie willow          | Goodman and Lawson 1995:301  |
| <i>Salix eriocephala</i>                       | Diamond willow          | Goodman and Lawson 1995:301  |
| <i>Salix</i> sp.*                              | Willow                  | Along Missouri River; represented by 0.36 gm charcoal sample in the phytoarcheological material  |
| <b>Salicaceae</b>                              | <b>Willow family</b>    | <b>Represented by 67.4 gm charcoal sample in the phytoarcheological material</b>   |
| <i>Mimulus glabratus</i> var. <i>jamesii</i>   | Roundleaf monkey-flower | Torrey and Gray 1846:371; Goodman and Lawson 1995:309  |
| <i>Penstemon grandiflorus</i>                  | Large beardtongue       | On loess hills bordering Missouri River  |
| <i>Physalis missouriensis</i>                  | Downy groundcherry      | Goodman and Lawson 1995:315  |
| <i>Solanum carolinense</i>                     | Horse-nettle            | Goodman and Lawson 1995:316  |
| [probably] <i>Ulmus americana</i>              | American elm            | Along Boyer Creek  |
| <i>Ulmus thomasii</i>                          | Rock elm                | Goodman and Lawson 1995:321  |
| <b><i>Ulmus</i> sp.</b>                        | <b>Elm</b>              | <b>Represented by 367.23 gm charcoal sample in the phytoarcheological material</b>   |
| <b><i>Ulmaceae</i></b>                         | <b>Elm family</b>       | <b>Represented by 92.6 gm charcoal sample in the phytoarcheological material</b>   |
| <i>Viola pubescens</i>                         | Smooth yellow violet    | Goodman and Lawson 1995:325  |
| <b><i>Vitis</i> sp.</b>                        | <b>Wild grape</b>       | <b>Represented by 35 seeds in the phytoarcheological material</b>  |
| <b>Mollusks</b>                                |                         |  |
| PELECYPODA (BIVALVES)                          |                         |  |
| <b><i>Tritogonia verrucosa</i></b>             | <b>Pistolgrip</b>       | <b>MNI = 2; probably not an important subsistence resource at Engineer Cantonment as dense concentrations or midden deposits have not been found</b> |
| GASTROPODA (FRESHWATER AND TERRESTRIAL SNAILS) |                         |  |
| <i>Physella gyrina</i>                         | Tadpole physa           | “Of this species, I found two specimens at Bowyer creek, near Council Bluff.” (Say 1821:171)   |

| Scientific name               | Common name              | Comments  |
|-------------------------------|--------------------------|---|
| <i>Physella heterostropha</i> | Pewter physa             | "Is very common in ponds of the Missouri as far as Council Bluff." (Say 1821:172)   |
| <i>Helisoma anceps</i>        | Twin-ridge rams-horn     | ". . . inhabits ponds of water, in vicinity of Council Bluff." (Say 1821:164)   |
| <i>Planorbella trivolvis</i>  | Marsh rams-horn          | ". . . inhabits ponds of water, in vicinity of Council Bluff." (Say 1817a, 1821:164)  |
| <i>Gyraulus parvus</i>        | Ash gyro                 | ". . . inhabits ponds of water, in vicinity of Council Bluff." (Say 1817a, 1821:164)  |
| <i>Valvata tricarinata</i>    | Threeridge valvata       | ". . . occurs in considerable numbers in ponds, in the vicinity of Council Bluff." (Say 1817b:13, 1821:178)   |
| <i>Stagnicola elodes</i>      | <b>Marsh pondsnail</b>   | <b>Tentatively identified as present but not quantified in zooarcheological material; prefers areas of decaying terrestrial plant matter</b>  |
| <i>Anguispira alternata</i>   | <b>Flamed tigersnail</b> | <b>Present but not quantified in zooarcheological material; ubiquitous snail occurring especially in deciduous woodlands</b>  |
| <i>Haplotrema concavum</i> *  | Gray-foot lancetooth     | "Found in moist places near the Mississippi river, on the Missouri as high as council bluff, and on the sea islands of Georgia." (Say 1821:159); <b>tentatively identified as present but not quantified in zooarcheological material</b> |
| <i>Allogona profunda</i> *    | Broad-banded forestsnail | "Specimens occurred near Cincinnati on the Ohio, and Engineer Cantonment near Council Bluff, on the Missouri." (Say 1817a, 1821:160; Baker 1942:78); <b>present but not quantified in zooarcheological material</b>                       |
| <i>Patera appressa</i> *      | Flat bladetooth          | "This species is very common on the banks of the Ohio below Galiopolis; I also found it near Council Bluff." (Say 1821:151); <b>tentatively identified as present but not quantified in zooarcheological material</b>                     |
| <i>Stenotrema hirsutum</i> *  | Hairy slitmouth          | ". . . common as far as Council Bluff." (Say 1817c:17, 1821:161); <b>present but not quantified in zooarcheological material</b>  |
| <i>Neohelix albolabris</i>    | Whitelip                 | ". . . common, as far as Council Bluff." (Say 1817a, 1821:161)  |
| <i>Webbhelix multilineata</i> | Striped whitelip         | ". . . numerous species in the moist forests on the margin of the Mississippi near Ohio, and the Missouri as far as Council Bluff." (Say 1821:150)  |

| Scientific name                  | Common name                   | Comments   |
|----------------------------------|-------------------------------|--|
| <b>Pupillidae</b>                | <b>Chrysalis snails</b>       | <b>Present but not quantified in zooarcheological material; occurring in rocky areas such as limestone quarries and escarpments</b>  |
| <i>Strobilops labyrinthicus</i>  | Maze pinecone                 | “. . . common as far as Council Bluff.”<br>(Say 1817d:124, 1821:161)   |
| <i>Vallonia pulchella</i>        | Lovely vallonia               | “. . . common as far as Council Bluff.”<br>(Say 1817d:123, 1821:161)   |
| <b>INSECTS</b>                   |                               |  |
| <i>Acanalonia bivittata</i>      | Planthopper                   | Say 1825c:335<br>“Found near Engineer Cantonment on the Missouri river . . .”  |
| <i>Clastoptera obtusa</i>        | Alder spittlebug              | Say 1825c:339<br>“Very common near Council Bluff, . . .”   |
| <i>Cuerna septentrionalis</i>    | A leafhopper                  | Say 1825c:340<br>“Near Engineer Cantonment on the Missouri.”   |
| <i>Erythroneura obliqua</i>      | A leafhopper                  | Say 1825c:342<br>“Found at Engineer Cantonment, . . .”   |
| <i>Gyponana octolineata</i>      | A leafhopper                  | Say 1825c:340<br>“Near Engineer Cantonment on the Missouri.”   |
| <i>Cixius stigmata</i>           | A planthopper                 | Say 1825c:336<br>“Very numerous at Engineer Cantonment on the Missouri.”   |
| <i>Arhyssus lateralis</i>        | A leaf-footed bug             | Say 1825c:320<br>“Found near Engineer Cantonment, . . .”   |
| <i>Boisea lateralis</i>          | Boxelder bug                  | Say 1825c:322<br>“Taken at Engineer Cantonment.”   |
| <i>Amnestus spinifrons</i>       | A burrower bug                | Say 1825c:316<br>“Found near Engineer Cantonment, common.”   |
| <i>Ortholomus scolopax</i>       | A seed bug                    | Say 1831:775<br>“I obtained a specimen at Council Bluff.”  |
| <i>Neotridactylus apicalis</i>   | A pygmy mole cricket          | Say, 1825c:310-311<br>Described from “Southern and Western States” but “This species is numerous on St. John’s river, in East Florida and on the Missouri, as far as Council Bluff.” |
| <i>Agrilus parvus</i>            | A metallic wood-boring beetle | Say 1825b:252<br>“I detected it at the cantonment of Major Long’s party, on the Missouri.”   |
| <i>Chauliognathus marginatus</i> | A soldier beetle              | Say 1825d:166<br>“I found the specimen near the cantonment of Major Long’s exploring party on the Missouri river.”   |

| Scientific name                         | Common name                   | Comments   |
|---|-------------------------------|--|
| <i>Brachinus cyanipennis</i>            | A ground beetle               | Say 1823b:143<br>“. . . observed great numbers of them near Engineer Cantonment. These chiefly occurred during the winter, in a quarry from which building stone had been taken for the use of Camp Missouri. They were found hibernating in the fissures of the rocks.” |
| <i>Brachinus quadripennis</i>           | A ground beetle               | Say 1834:415<br>“I obtained this species in the winter of 1819, when with Major Long’s party, at Engineer Cantonment, near Council Bluff.”   |
| <i>Bembidion inaequalis</i>             | A ground beetle               | Say 1823b:151<br>“. . . it occurred near Engineer Cantonment.”   |
| <i>Acmaeops bivittatus</i>              | A long-horn beetle            | Say 1824c:416<br>“This insect, which is not very common in the vicinity of Council Bluff . . .”  |
| <i>Donacia aequalis</i>                 | A leaf beetle                 | Say 1824c:428<br>“Found near Engineer Cantonment.”   |
| <i>Monophylla terminata</i>             | A checkered beetle            | Say 1835:160<br>“I obtained two specimens of this curious insect, at the cantonment of Major Long’s party, near Council Bluff on the Missouri river.”  |
| <i>Listronotus caudatus</i>             | A weevil                      | Say 1824b:311<br>“Found near Engineer Cantonment on the Missouri river.”   |
| <i>Coptotomus venustus</i>              | A predaceous diving beetle    | Say 1823b:152<br>“Found many specimens in a pond near Bowyer Creek, Missouri.”   |
| <i>Hydroporus undulates</i>             | A predaceous diving beetle    | Say 1823b:154<br>“Found in a pond near Bowyer Creek, Upper Missouri.”  |
| <i>Odonteus filicornis</i>              | An earth-boring scarab beetle | Say 1823b:211<br>“I obtained it near Council Bluff on the Missouri.”   |
| <i>Geotrupes blackburnii excrementi</i> | An earth-boring scarab beetle | Say 1823b:210-211<br>Described from the United States, but “This species is common in various parts of the United States. It is found in Pennsylvania, and I obtained specimens at Engineer Cantonment, and at Cape Gerardeau.”  |
| <i>Cercyon pygmaeus</i>                 | A water scavenger beetle      | Say 1823b:203<br>“Found at Engineer Cantonment.”   |
| <i>Helophorus lineatus</i>              | A water scavenger beetle      | Say 1823b:200<br>“Found in river near Engineer Cantonment.”  |



| Scientific name                   | Common name                     | Comments  |
|-----------------------------------|---------------------------------|---|
| <i>Corticaria serrata</i>         | A minute brown scavenger beetle | Say 1824b:325-326<br>"Caught above the confluence of the Platte with the Missouri river."               |
| <i>Choleva basilaris</i>          | A round fungus beetle           | Say 1823b:194<br>"Found under wood at Engineer Cantonment on the Missouri."                             |
| <i>Hyonobis matthewsii</i>        | A round fungus beetle           | Say 1825a:91<br>"Found under wood at Engineer Cantonment on the Missouri."                              |
| <i>Epicauta conferta</i>          | A blister beetle                | Say 1824a:281<br>"Found in the vicinity of Council Bluff."  |
| <i>Phalacrus penicillatus</i>     | A shining flower beetle         | Say 1825a:91<br>"Found near Engineer Cantonment."   |
| <i>Aphodius tenellus</i>          | A scarab beetle                 | Say 1823b:213<br>"... obtained specimens of it in the vicinity of Engineer Cantonment on the Missouri." |
| <i>Euphoria inda</i>              | A scarab beetle                 | Say 1824a:239<br>"... found at Council Bluff, on the Missouri, ..."                                     |
| <i>Serica sericea</i>             | A scarab beetle                 | Say 1824a:245<br>"... we obtained specimens near Council Bluff on the Missouri river."                  |
| <i>Astenus binotatus</i>          | A rove beetle                   | Say 1823b:154<br>"Found near the Missouri above the confluence of the Platte"                           |
| <i>Bledius armatus</i>            | A rove beetle                   | Say 1823b:156<br>"On the banks of the Missouri above the confluence of the Platte river"                |
| <i>Bledius fasciatus</i>          | A rove beetle                   | Say 1823b:157<br>"Found near Engineer Cantonment."  |
| <i>Carpelimus quadripunctatus</i> | A rove beetle                   | Say 1834:459<br>"Found at Engineer Cantonment."   |
| <i>Eusphalerum marginatum</i>     | A rove beetle                   | Say 1834:463<br>"... it occurred at Engineer Cantonment on the Missouri."                               |
| <i>Homaeotarsus cinctus</i>       | A rove beetle                   | Say 1834:454<br>"... it occurred at Engineer Cantonment on the Missouri."                               |
| <i>Psephidonus brunneus</i>       | A rove beetle                   | Say 1823b:158<br>"On the banks of the Missouri above the confluence of the Platte river"                |
| <i>Alphitophagus bifasciata</i>   | A darkling beetle               | Say 1824a:268<br>"Found at Engineer Cantonment."  |
| <i>Dilophus stigmaterus</i>       | A march fly                     | Say 1823a:78<br>"Taken at Engineer Cantonment."   |



| Scientific name                                    | Common name                               | Comments  |
|--|---|---|
| <i>Zodion fulvifrons</i>                           | A conopid fly                             | Say 1823a:84<br>Described from near the Rocky Mountains, but “I obtained an individual at Engineer Cantonment, less than half the above mentioned size.”  |
| <i>Gonia frontosa</i>                              | A tachina fly                             | Say 1830:175<br>“Occurred rather common at Engineer Cantonment on the Missouri, late in March, on a wounded tree from which much sap had exuded.”   |
| <i>Myrmosa unicolor</i>                            | A tiphiid wasp                            | Say 1824d:331<br>Described from Northwest Territory, but . . . “also occurred on the Missouri, at Engineer Cantonment, . . .”   |
| <b>FISH</b>  |   |   |
| <i>Scaphirhynchus sp.</i>                          | Shovelnose/pallid sturgeon                | <b>Represented by three zooarcheological items</b>  |
| <i>Lepisosteus sp.</i>                             | Longnose/shortnose gar                    | <b>Represented by four zooarcheological items</b>   |
| <i>Ameiurus sp.</i>                                | Bullhead                                  | <b>Represented by one zooarcheological item</b>   |
| <i>Ictalurus punctatus</i>                         | Channel catfish                           | <b>Represented by nine zooarcheological items</b>   |
| <i>Ictaluridae</i>                                 | North American catfishes                  | <b>Represented by 21 zooarcheological items</b>   |
| <i>Fundulus diaphanous</i>                         | Banded killifish                          | Historical record overlooked by Genoways and Ratcliffe (2008); from a small pond near the mouth of Boyer River; based on a drawing by Titian R. Peale (Peale Collection, APSimage 5645)   |
| <i>Culaea inconstans</i> ?                         | Brook stickleback                         | Say in James 1822:I:190-191; “amongst which three species appeared to be new; several specimens were of the genus <i>Gasterosteus</i> ,” historical record not included in Genoways and Ratcliffe (2008); brook stickleback, <i>Culaea inconstans</i> , only stickleback in Nebraska and Iowa |
| <i>Micropterus sp.</i>                             | Largemouth/smallmouth basses              | <b>Represented by two zooarcheological items</b>  |
| <b>AMPHIBIANS</b>                                  |   |   |
| <i>Bufo woodhousii</i> and/or <i>Bufo cognatus</i> | Woodhouse’s toad and/or Great Plains toad | These two species occur across most of Nebraska and are difficult to distinguish  |
| <i>Bufo sp.</i>                                    | Toads                                     | <b>Represented by six zooarcheological items</b>  |
| <i>Rana catesbeiana</i>                            | American bullfrog                         | <b>Represented by one zooarcheological item, association uncertain</b>  |

| Scientific name  | Common name                                      | Comments   |
|--|--|--|
| <i>Rana pipiens</i> and/or <i>Rana blairi</i> *                  | Northern leopard frog and/or plains leopard frog | Two species occur in eastern Nebraska and are very close in appearance; <i>R. blairi</i> was only recognized recently; represented by 9 zooarcheological items |
| <b><i>Hyla</i> sp.</b>   | <b>Treefrog</b>                                  | <b>Represented by one zooarcheological item</b>  |
| <b>REPTILES</b>  |  |  |
| <i>Chelydra serpentina</i> *                                     | Common snapping turtle                           | Represented by two zooarcheological items  |
| <i>Chrysemys picta</i> and/or <i>Graptemys pseudogeographica</i> | Painted turtle and/or false map turtle           |  |
| <b><i>Chrysemys picta</i></b>                                    | <b>Painted turtle</b>                            | <b>Represented by five zooarcheological items</b>  |
| <i>Terrapene ornata</i>  | Ornate box turtle                                | “rarely, if ever, enters the water . . . decidedly terrestrial”  |
| <i>Apalone mutica</i> /A. <i>spinifera</i>                       | Soft-shelled turtle                              |  |
| [possibly] <i>Cnemidophorus sexlineatus</i>                      | Six-lined race runner                            |  |
| [probably] <i>Eumeces septentrionalis</i>                        | Prairie skink                                    |  |
| <i>Coluber constrictor flaviventris</i>                          | Eastern yellowbelly racer                        | Described by Say in James 1822:I:185; found hibernating in limestone quarry 100 yards from Cantonment  |
| <i>Heterodon platirhinos</i>                                     | Eastern hognose snake                            |  |
| <i>Thamnophis proximus proximus</i>                              | Western ribbon snake                             | Described by Say in James 1822:I:187; found hibernating in limestone quarry 100 yards from Cantonment  |
| [probably] <i>Thamnophis radix haydenii</i>                      | Western plains garter snake                      |  |
| <i>Thamnophis sirtalis parietalis</i>                            | Red-sided garter snake                           | Described by Say in James 1822:I:186; found hibernating in limestone quarry 100 yards from Cantonment  |
| <b>Colubridae</b>  | <b>Colubrid snakes</b>                           | <b>Represented by 15 zooarcheological items</b>  |
| <i>Crotalus horridus</i>   | Timber rattlesnake                               |  |
| <i>Sistrurus catenatus tergeminus</i>                            | Western massasauga                               | April 14, 1820: “We saw numbers of the smaller species of rattle snake, which had, no doubt, but lately left their winter dwelling.” (James 1822:I:345-346)    |
| <b>Serpentes</b>   | <b>Snake</b>                                     | <b>Represented by two zooarcheological items</b>   |
| <b>BIRDS</b>   |  |  |
| <i>Gavia immer</i>   | Common Loon                                      |  |
| <b><i>Podilymbus podiceps</i></b>                                | <b>Pied-billed Grebe</b>                         | <b>Represented by one zooarcheological item</b>  |
| <i>Podiceps nigricollis</i>                                      | Eared Grebe                                      | May 5, 1820 (arrival date Engineer Cantonment in 1820, James 1822, also below)   |
| <i>Pelecanus erythrorhynchos</i>                                 | American White Pelican                           | Arriving April 8, 1820   |

| Scientific name                 | Common name                   | Comments  |
|---------------------------------|-------------------------------|---|
| <i>Pelecanus occidentalis</i>   | Brown Pelican                 |   |
| <i>Phalacrocorax auritus</i>    | Double-crested Cormorant      | Arriving April 10, 1820   |
| <i>Ardea herodias</i>           | Great Blue Heron              |   |
| <i>Butorides virescens</i>      | Green Heron                   |   |
| <i>Nycticorax nycticorax</i>    | Black-crowned Night-Heron     |   |
| <i>Cathartes aura</i>           | Turkey Vulture                | Arriving April 2, 1820  |
| <i>Anser albifrons</i>          | Greater White-fronted Goose   |   |
| <i>Chen caerulescens</i>        | Snow Goose                    |   |
| <i>Branta canadensis</i> *      | Canada Goose                  | “flying to the north February 21, 1820;”<br>represented by three zooarcheological<br>items                            |
| <i>Branta bernicla</i>          | Brant                         | This could be an erroneous report   |
| <i>Cygnus buccinator</i> *      | Trumpeter Swan                | “flying to the north February 22, 1820;”<br><b>represented by one zooarcheological<br/>item</b>                       |
| <b>Anserinae</b>                | <b>Geese</b>                  | <b>Represented by 35 zooarcheological<br/>items</b>   |
| <i>Aix sponsa</i> *             | Wood Duck                     | <b>Represented by two zooarcheological<br/>items</b>  |
| <i>Anas americana</i>           | American Wigeon               | “shot March 3, 1820”  |
| <i>Anas platyrhynchos</i> *     | Mallard                       | <b>Represented by nine zooarcheological<br/>items</b>   |
| <i>Anas discors</i>             | Blue-winged Teal              |   |
| <i>Anas acuta</i>               | Northern Pintail              | “shot February 28, 1820”  |
| <b>Anas sp.</b>                 | <b>Teal group</b>             | <b>Represented by 21 zooarcheological<br/>items</b>   |
| <i>Aythya affinis</i>           | Lesser Scaup                  |   |
| <i>Clangula hyemalis</i>        | Oldsquaw [= Long-tailed Duck] |   |
| <i>Bucephala albeola</i>        | Bufflehead                    |   |
| <i>Bucephala clangula</i>       | Common Goldeneye              |   |
| <i>Lophodytes cucullatus</i>    | Hooded Merganser              |   |
| <i>Mergus merganser</i>         | Common Merganser              |   |
| <b>Anatidae</b>                 | <b>Unidentified duck</b>      | <b>Represented by 81 zooarcheological<br/>items</b>   |
| <i>Pandion haliaetus</i>        | Osprey                        | Arriving May 17, 1820   |
| <i>Elanoides forficatus</i>     | Swallow-tailed Kite           | Arriving May 20, 1820   |
| <i>Ictinia mississippiensis</i> | Mississippi Kite              | “generally winter here”   |
| <i>Haliaeetus leucocephalus</i> | Bald Eagle                    | “generally winter here;” threatened<br>(Lackey 2003)  |
| <i>Circus cyaneus</i>           | Northern Harrier              | “generally winter here”   |
| <i>Accipiter striatus</i> *     | Sharp-shinned Hawk            | “generally winter here;”<br>species described based on young<br>female; represented by one zooarcheo-<br>logical item |
| <i>Buteo platypterus</i>        | Broad-winged Hawk             | “generally winter here;” species de-<br>scribed based on male   |

| Scientific name                    | Common name             | Comments  |
|------------------------------------|-------------------------|---|
| <i>Buteo jamaicensis</i>           | Red-tailed Hawk         | “generally winter here”   |
| <i>Buteo lagopus</i>               | Rough-legged Hawk       | Feb. 1820—presence documented by T. Peale watercolor  |
| <i>Aquila chrysaetos</i>           | Golden Eagle            | “generally winter here”   |
| <i>Falco sparverius</i>            | American Kestrel        |   |
| <i>Bonasa umbellus</i>             | Ruffed Grouse           |   |
| <i>Tympanuchus phasianellus</i>    | Sharp-tailed Grouse     |   |
| <i>Tympanuchus cupido</i>          | Greater Prairie-Chicken |   |
| <b><i>Tympanuchus</i> sp.</b>      | <b>Prairie Grouse</b>   | <b>Represented by nine zooarcheological items</b>   |
| <i>Meleagris gallopavo</i> *       | Wild Turkey             | Extirpated and re-introduced; represented by 62 zooarcheological items  |
| <i>Colinus virginianus</i> *       | Northern Bobwhite       | Represented by six zooarcheological items   |
| <i>Fulica americana</i>            | American Coot           |   |
| <i>Grus canadensis</i>             | Sandhill Crane          | Arriving May 24, 1820—based on watercolor by T. Peale this was the Greater Sandhill Crane   |
| <i>Grus americana</i>              | Whooping Crane          | Arriving March 19, 1820; endangered (Lackey 2003)   |
| <b><i>Grus</i> sp.</b>             | <b>Cranes</b>           | <b>Represented by four zooarcheological items</b>   |
| <i>Pluvialis dominica</i>          | American Golden-Plover  |   |
| <i>Charadrius vociferus</i>        | Killdeer                |   |
| <i>Recurvirostra americana</i>     | American Avocet         |   |
| <i>Tringa melanoleuca</i> *        | Greater Yellowlegs      | Arriving March 19, 1820; represented by one zooarcheological item   |
| <i>Tringa flavipes</i>             | Lesser Yellowlegs       |   |
| <i>Tringa solitaria</i>            | Solitary Sandpiper      | Arriving April 30, 1820   |
| <i>Catoptrophorus semipalmatus</i> | Willet                  |   |
| <i>Bartramia longicauda</i>        | Upland Sandpiper        |   |
| <i>Numenius americanus</i>         | Long-billed Curlew      | Arriving April 1, 1820  |
| <i>Limosa fedoa</i>                | Marbled Godwit          |   |
| <i>Calidris pusilla</i>            | Semipalmated Sandpiper  |   |
| <i>Calidris fuscicollis</i>        | White-rumped Sandpiper  | “This bird was shot in November, near Engineer Cantonment”  |
| <i>Calidris melanotos</i> *        | Pectoral Sandpiper      | Described by Say in James 1822:I:171; “Many flocks of them were seen at Engineer Cantonment, both in the Spring and Autumn;” <b>represented by three zooarcheological items</b> |
| <i>Limnodromus scolopaceus</i>     | Long-billed Dowitcher   | Described by Say in James 1822:I:170; several specimens were shot in a pond near the Bowyer creek”  |
| <i>Scolopax minor</i>              | American Woodcock       | Arriving April 8, 1820  |

| Scientific name                   | Common name               | Comments  |
|-----------------------------------|---------------------------|---|
| <b>Chardrii/Scolopaci</b>         | <b>Shorebirds</b>         | <b>Represented by 16 zooarcheological items</b>                                     |
| <i>Larus pipixcan</i>             | Franklin's Gull           | "in large flocks, flying northward, May 4, 1820;" probably this species             |
| <i>Sterna antillarum</i>          | Least Tern                | Arriving April 2, 1820; endangered (Lackey 2003)                                    |
| <i>Chlidonias niger</i>           | Black Tern                |   |
| <i>Zenaidra macroura</i>          | Mourning Dove             | Arriving April 30, 1820   |
| <i>Ectopistes migratorius</i> *   | Passenger Pigeon          | May 2, 1820; extinct; <b>represented by 13 zooarcheological items</b>               |
| <i>Conuropsis carolinensis</i>    | Carolina Parakeet         | "seen several times during winter;" extinct   |
| <i>Otus asio</i>                  | Eastern Screech-Owl       | "generally winter here"   |
| <i>Bubo virginianus</i>           | Great Horned Owl          | "generally winter here"   |
| <i>Surnia ulula</i>               | Northern Hawk Owl         | "generally winter here"   |
| <i>Strix varia</i>                | Barred Owl                | "generally winter here"   |
| <i>Asio otus</i>                  | Long-eared Owl            |   |
| <i>Aegolius acadicus</i>          | Northern Saw-whet Owl     | "generally winter here"   |
| <i>Chordeiles minor</i>           | Common Nighthawk          | Arriving May 16, 1820   |
| <i>Caprimulgus vociferus</i>      | Whip-poor-will            | Arriving April 19, 1820   |
| <i>Chaetura pelagica</i>          | Chimney Swift             | Arriving May 1, 1820  |
| <i>Archilochus colubris</i> *     | Ruby-throated Hummingbird | Arriving May 18, 1820; <b>represented by one zooarcheological item</b>              |
| <i>Ceryle alcyon</i>              | Belted Kingfisher         | Arriving March 20, 1820   |
| <i>Melanerpes erythrocephalus</i> | Red-headed Woodpecker     | Arriving March 20, 1820 "entirely migratory"  |
| <i>Melanerpes carolinus</i>       | Red-bellied Woodpecker    |   |
| <i>Picoides pubescens</i>         | Downy Woodpecker          |   |
| <i>Picoides villosus</i>          | Hairy Woodpecker          |   |
| <i>Colaptes auratus</i>           | Northern Flicker          | "remain all winter"   |
| <i>Dryocopus pileatus</i>         | Pileated Woodpecker       | Arriving February 28, 1820  |
| <i>Sayornis phoebe</i>            | Eastern Phoebe            | Arriving March 22, 1820   |
| <i>Myiarchus crinitus</i>         | Great Crested Flycatcher  |   |
| <i>Tyrannus tyrannus</i>          | Eastern Kingbird          | Arriving May 7, 1820  |
| <i>Lanius excubitor</i>           | Northern Shrike           |   |
| <i>Vireo griseus</i>              | White-eyed Vireo          | Arriving April 30, 1820   |
| <i>Vireo olivaceus</i>            | Red-eyed Vireo            | Arriving April 30, 1820   |
| <i>Cyanocitta cristata</i>        | Blue Jay                  |   |
| <i>Pica pica</i> *                | Black-billed Magpie       | "retired northward March 23, 1820;" <b>represented by one zooarcheological item</b> |
| <i>Corvus brachyrhynchos</i>      | American Crow             |   |
| <i>Corvus corax</i>               | Common Raven              | "the young nearly able to fly, May 12, 1820"  |
| <i>Eremophila alpestris</i>       | Horned lark               |   |

| Scientific name                 | Common name             | Comments  |
|---------------------------------|-------------------------|---|
| <i>Progne subis</i>             | Purple Martin           | Arriving March 30, 1820   |
| <i>Riparia riparia</i>          | Bank Swallow            |   |
| <i>Hirundo rustica</i>          | Barn Swallow            |   |
| <i>Poecile atricapillus</i>     | Black-capped Chickadee  | “all winter”  |
| <i>Sitta canadensis</i>         | Red-breasted Nuthatch   |   |
| <i>Sitta carolinensis</i>       | White-breasted Nuthatch | “remains all winter”  |
| <i>Thryothorus ludovicianus</i> | Carolina Wren           |   |
| <i>Troglodytes troglodytes</i>  | Winter Wren             |   |
| <i>Cistothorus palustris</i>    | Marsh Wren              | Arriving April 15, 1820   |
| <i>Sialia sialis</i>            | Eastern Bluebird        | “a few remain all winter”   |
| <i>Turdus migratorius</i>       | American Robin          | Arriving April 11, 1820   |
| <i>Dumetella carolinensis</i>   | Gray Catbird            |   |
| <i>Mimus polyglottos</i>        | Northern Mockingbird    |   |
| <i>Toxostoma rufum</i>          | Brown Thrasher          |   |
| <i>Anthus rubescens</i>         | American Pipit          |   |
| <i>Bombycilla cedrorum</i>      | Cedar Waxwing           |   |
| <i>Vermivora pinus</i>          | Blue-winged Warbler     |   |
| <i>Vermivora celata</i>         | Orange-crowned Warbler  | Described by Say in James 1822:I:169;<br>“Shot at Engineer Cantonment early in<br>May”                        |
| <i>Parula americana</i>         | Northern Parula         |   |
| <i>Dendroica petechia</i>       | Yellow Warbler          |   |
| <i>Dendroica striata</i>        | Blackpoll Warbler       | Arriving April 26, 1820   |
| <i>Dendroica cerulea</i>        | Cerulean Warbler        | Described by Say in James 1822:I:170;<br>“Shot in May near Engineer Canton-<br>ment;” arriving April 28, 1820 |
| <i>Setophaga ruticilla</i>      | American Redstart       | Arriving April 28, 1820   |
| <i>Seiurus aurocapillus</i>     | Ovenbird                | Arriving April 26, 1820   |
| <i>Seiurus noveboracensis</i>   | Northern Waterthrush    | Arriving April 26, 1820   |
| <i>Wilsonia canadensis</i>      | Canada Warbler          |   |
| <i>Icteria virens</i>           | Yellow-breasted Chat    |   |
| <b>Parulidae</b>                | <b>Warblers</b>         | <b>Represented by one zooarcheological<br/>item</b>   |
| <i>Piranga rubra</i>            | Summer Tanager          | Arriving May 1, 1820  |
| <i>Piranga olivacea</i>         | Scarlet Tanager         |   |
| <i>Pipilo erythrophthalmus</i>  | Eastern Towhee          |   |
| <i>Spizella passerina</i>       | Chipping Sparrow        |   |
| <i>Melospiza melodia</i>        | Song Sparrow            |   |
| <i>Junco hyemalis</i>           | Dark-eyed Junco         | Departing April 11, 1820  |
| <i>Cardinalis cardinalis</i>    | Northern Cardinal       |   |
| <i>Pheucticus ludovicianus</i>  | Rose-breasted Grosbeak  |   |
| <i>Spiza americana</i>          | Dickeissel              |   |
| <i>Dolichonyx oryzivorus</i>    | Bobolink                | Arriving May 14, 1820   |
| <i>Agelaius phoeniceus</i>      | Red-winged Blackbird    | Arriving March 1, 1820  |

| Scientific name                                   | Common name                 | Comments  |
|---|-----------------------------|---|
| <i>Sturnella magna</i>                            | Eastern Meadowlark          | Arriving April 5, 1820  |
| <i>Xanthocephalus xanthocephalus</i>              | Yellow-headed Blackbird     | Arriving May 14, 1820   |
| <i>Quiscalus quiscula</i>                         | Common Grackle              |   |
| <i>Molothrus ater</i>                             | Brown-headed Cowbird        |   |
| <i>Icterus spurius</i>                            | Orchard Oriole              |   |
| <i>Icterus galbula</i>                            | Baltimore Oriole            |   |
| <b>Icteridae</b>                                  | <b>Blackbirds/oriole</b>    | <b>Represented by one zooarcheological item</b>   |
| <i>Pinicola enucleator</i>                        | Pine Grosbeak               | “occasionally seen during the winter”   |
| <i>Carpodacus purpureus</i>                       | Purple Finch                | Arriving February 28, 1820  |
| <i>Loxia curvirostra</i>                          | Red Crossbill               | Arriving February 21, 1820  |
| <i>Carduelis flammea</i>                          | Common Redpoll              | Arriving February 1, 1820   |
| <i>Carduelis tristis</i>                          | American Goldfinch          |   |
| <b>Passeriformes</b>                              | <b>Perching birds</b>       | <b>Represented by four zooarcheological items</b>   |
| MAMMALS   |                             |   |
| <i>Didelphis virginiana</i>                       | Opossum                     |   |
| [almost certainly] <i>Sylvilagus floridanus</i> * | Eastern cottontail          | Given the abundance and descriptions in text this is almost certainly the common cottontail, <i>S. floridanus</i> ; “went out this morning to kill rabbits, returned, about noon, with twenty-seven;” <b>represented by 47 zooarcheological items</b> |
| <i>Blarina brevicauda brevicauda</i>              | Northern short-tailed shrew | Described by Say in James 1822:I:164; taken near cabins; “the specimen is a male”   |
| <b><i>Blarina</i> sp.</b>                         | <b>Short-tailed shrew</b>   | <b>Represented by two zooarcheological items</b>  |
| <i>Cryptotis parva parva</i>                      | Least shrew                 | Described by Say in James 1822:I:163; taken near cabins; “Mr. Peale caught this animal in a pitfall, which he had dug for the purpose of catching a wolf. It is a female.”  |
| <b>Soricidae</b>                                  | <b>Shrews</b>               | <b>Represented by nine zooarcheological items</b>   |
| <i>Scalopus aquaticus</i> *                       | Eastern mole                | <b>Represented by three zooarcheological items</b>  |
| <i>Eptesicus fuscus</i>                           | Big brown bat               |   |
| <i>Lasiurus borealis</i>                          | Red bat                     |   |
| <i>Lasiurus cinereus cinereus</i>                 | Hoary bat                   | Described by Say under another name in James 1822:I:167; “common in this region”  |
| <i>Puma concolor</i>                              | Mountain lion               | Extirpated; a few wandering individuals coming into general area  |
| <i>Lynx rufus</i> *                               | Bobcat                      | Represented by 3 zooarcheological items   |
| <i>Canis familiaris</i>                           | Indian dog                  |   |



| Scientific name                 | Common name                                      | Comments  |
|---------------------------------|--|---|
| <i>Canis latrans latrans</i>    | Coyote   | Described by Say in James 1822:I:168; apparently four individuals used in description; present “in considerable numbers;” “prairie wolves . . . killed a doe, within a short distance of our huts; this morning the remains of the carcass were found, consisting only of bones and skin” |
| <i>Canis lupus nubilus</i>      | Prairie gray wolf                                | Described by Say in James 1822:I:169; description based on a single individual; extinct   |
| <b>Canis sp.</b>                | <b>Coyote, gray wolf, domestic dog</b>           | <b>Represented by two zooarcheological items</b>  |
| <i>Vulpes vulpes</i>            | Red fox  |   |
| <i>Urocyon cinereoargenteus</i> | Gray fox   |   |
| <i>Ursus americanus</i>         | Black bear                                       | Extirpated  |
| <i>Lontra canadensis</i>        | North American river otter                       | Extirpated, but being reintroduced  |
| <i>Neovison vison</i>           | American mink                                    |   |
| <i>Taxidea taxus</i>            | American badger                                  |   |
| <i>Mephitis mephitis</i>        | Striped skunk                                    | “The flesh of the skunk we had sometimes dressed for dinner, and found it a remarkably rich and delicate food.”   |
| <i>Procyon lotor</i> *          | Raccoon  | Represented by 43 zooarcheological items  |
| <b>Equus sp.</b>                | <b>Horse/mule</b>                                | <b>Represented by eight zooarcheological items; introduced from Europe</b>  |
| <b>Sus scrofa</b>               | <b>Domestic hog</b>                              | <b>Represented by 34 zooarcheological items; introduced from Europe</b>   |
| <i>Odocoileus virginianus</i>   | White-tailed deer                                | Nearly extirpated, re-introduced, and now superabundant; “Mr. Peale on one occasion killed two deer at a single shot and with one ball”   |
| <b>Odocoileus sp.</b>           | <b>White-tailed deer and/or mule deer</b>        | <b>Represented by 79 zooarcheological items, but almost certainly white-tailed deer</b>   |
| <i>Cervus canadensis</i> *      | Elk  | <b>Represented by three zooarcheological items</b>  |
| <i>Antilocapra americana</i>    | Pronghorn  | Extirpated from eastern Nebraska  |
| <i>Bison bison</i> *            | American bison                                   | Extirpated; “Messrs. Dougherty and Peale returned from a hunt, having killed twelve bisons, out of a herd of several hundred;” represented by two zooarcheological items  |
| <i>Sciurus carolinensis</i>     | Eastern gray squirrel                            |   |
| <i>Sciurus niger</i>            | Eastern fox squirrel                             |   |
| <b>Sciurus sp.</b>              | <b>Eastern gray and/or eastern fox squirrels</b> | <b>Represented by 80 zooarcheological items</b>   |

| Scientific name                | Common name   | Comments   |
|--------------------------------|---|--|
| <i>Tamias striatus</i>         | Eastern chipmunk  | Not currently known from this area in Nebraska   |
| <i>Marmota monax</i>           | Woodchuck   |  |
| <i>Castor canadensis</i> *     | American beaver   | Extirpated and now re-invaded; represented by 44 zooarcheological items  |
| <i>Geomys bursarius</i>        | Plains pocket gopher  |  |
| <i>Zapus hudsonius</i>         | Meadow jumping mouse  |  |
| <i>Microtus pennsylvanicus</i> | <b>Meadow vole</b>  | <b>Represented by two zooarcheological items</b>   |
| <i>Microtus pinetorum</i>      | <b>Woodland vole</b>  | <b>Represented by one zooarcheological item</b>  |
| <i>Microtus</i> sp.            | <b>Voies</b>  | <b>Represented by three zooarcheological items</b>   |
| <i>Ondatra zibethicus</i> *    | Muskrat   | Represented by four zooarcheological items   |
| <i>Peromyscus leucopus</i>     | White-footed deermouse  |  |
| <i>Peromyscus</i> sp.          | <b>White-footed deermouse and/or North American deermouse</b> | <b>Represented by two zooarcheological items</b>   |
| <i>Mus musculus</i>            | House mouse   | “introduced by our expedition;” invasive species from Europe   |
| <i>Rattus norvegicus</i>       | Norway rat  | <b>Represented by two zooarcheological items; invasive species from Europe</b>                                   |
| <i>Rattus</i> sp.              | <b>Old World rats</b>   | <b>Represented by nine zooarcheological items, but almost certainly Norway rat; invasive species from Europe</b> |

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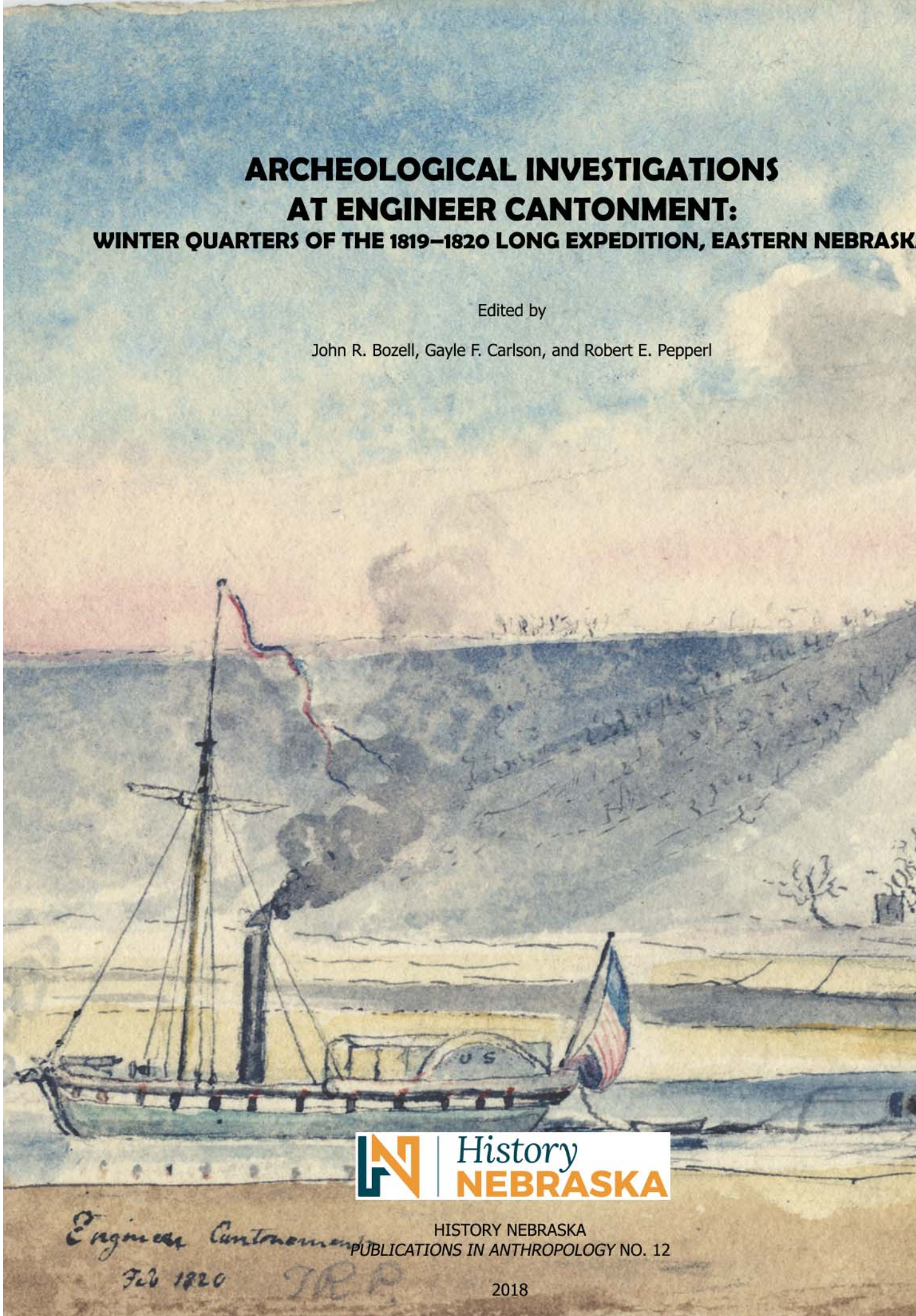
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