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|  |  | **Supplementary Table 1: Cement Creek Cave Fossil Identifications 2007 Excavations** | | | |  |
| **Unit** | **Level** | **Taxon** | **Element** | | **Notes** | |
| TP2 | 3 | *Dendragapus obscurus* | complete left humerus; 2 carina of sterna, 2 medial furcula | |  | |
| TP2 | 3 | Aves | ungual phalanx | |  | |
| TP2 | 3 | cf. *Lepus townsendii* | ulnar | |  | |
| TP2 | 4 | *Mustela nivalis* | right mandible with m1 | | distinctly smaller than *M. frenata*; compares well in size and characters to DMNH specimens | |
| TP2 | 9 | *Dendragapus obscurus* | left coracoid missing ends | |  | |
| TP2 | 9 | *Dendragapus obscurus* | partial right carpmetacarpus | |  | |
| TP2 | 9 | Corvidae | complete right tarsometatarsus | | slightly larger and more robust than *Nucifraga*, but closest to this; *Perisoreus* too small, *Pica* too large, *Cyanocitta* very long and slender | |
| TP2 | 9 | *Asio* sp. | distal left humerus | | compares well to male *A. otus* or *A. flammeus* in size and features | |
|  |  |  |  | |  | |
| TP2 | 12 | *Ursus americanus* | complete left tibia | | compares well to small *Ursus*, carnivore tooth mark at proximal end | |
| TP2 | 12 | *Dendragapus obscurus* | complete left humerus; cervical vertebra; 2 left and one right acetabula, medial left coracoid; right distal cmt, right distal femur | |
| TP2 | 12 | *Lagapus leucurus* | proximal half left cmt | |  | |
| TP2 | 12 | Aves | synsacrum fragment, acetabulum fragment, right femur shaft, right humerus with no ends | |
| TP2 | 12 | Phasianidae | premaxilla | | shorter and broader than *Dendragagus*, larger than *Lagopus lagopus* male, smaller than *Centrocercus*; *C. minima* female at USNM has much broader nasal bar; *Tympanuchus* closest but slightly longer | |
| TP2 | 12 | Passeriformes | right humerus with no ends; left cmt | |  | |
| TP2 | 14 | *Marmota* | Rm3, Rm1, LM1, Lm3 | |  | |
| TP2 | 14 | *Ochotona* | proximal 1/2 right mandible with Rm1-3; left mandible with no teeth | |  | |
| TP2 | 14 | Leporid | left medial mandible with m2 | |  | |
| TP2 | 14 | *Phenacomys intermedius* | left mandible with m1-2; right mandible with m1-3, right and left mandibles with m1-2; right mandible with m1 | |
| TP2 | 14 | *Neotoma* | left maxilla with M1-2; right mandible with m1; right mandible with m2; left mandible with no teeth; 2LM1, 2Lm1, RM2, Rm1, RM1 | |
| TP2 | 14 | *Thomomys talpoides* | proximal half right mandible with no teeth | |  | |
| TP2 | 14 | Sciuridae | 2 P or M; 2 left maxillae fragments with no teeth; 1 maxilla fragment with no teeth | |
| TP2 | 14 | *Dendragapus obscurus* | humeral half right scapula | |  | |
| TP2 | 15 | *Marmota* | 2LM1, Rm2; complete right tibia | |  | |
| TP2 | 15 | *Ochotona* | medial mandible with no teeth | |  | |
| TP2 | 15 | *Canis* | proximal phalanx V | |  | |
| TP2 | 15 | *Mustela vison* (?) | LC, RC | |  | |
| TP2 | 15 | *Bison* | right medial phalanx II | |  | |
| TP2 | 15 | *Dendragapus obscurus* | right coracoid with ends damaged | | compares well to male, USNM 11/26/10 | |
| TP2 | 16 | *Marmota* | RM1, LM3 (worn), 3 worn tooth fragments; left humerus missing proximal end; radius missing distal epiphysis; distal 1/2 left mandible with no teeth | |
| TP2 | 16 | *Mustela frenata* (?) | right mandible with m1 and p4 | |  | |
| TP2 | 16 | *Mustela vison* (?) | LC, RC | |  | |
| TP2 | 16 | Mustelid | LC, RC | |  | |
| TP2 | 16 | *Ursus americanus* | RI2 | |  | |
| TP2 | 16 | *Ochotona* | right mandible with no teeth, left mandible with m1-2 | |  | |
| TP2 | 17 | *Marmota* | RP3, Rm2, 2LP4, RM3, RP4, 2RM1;proximal 1/2 right femur | |  | |
| TP2 | 17 | *Ochotona* | left mandible with p4-m2; left proximal mandible with no teeth; right distal mandible with m1; right proximal 1/2 mandible with teeth fragmented | |
| TP2 | 17 | Cervid | incisor fragment | |  | |
| TP2 | 17 | *Ovis* | left distal mandible with teeth fragmented | |  | |
| TP2 | 17 | *Euceratherium* | first phalanx | | short and robust compared to *Ovis*, similar to *Oreamnos* but larger | |
| TP2 | 17 | *Vulpes vulpes* | RP3 | |  | |
| TP2 | 17 | *Ursus americanus* | metacarpal | |  | |
| TP2 | 17 | *Lagopus leucurus* | complete right tarsometatarsus | |  | |
| TP2 | 18 | *Marmota* | Lp4, left medial mandible with Lm1-3; left distal mandible with no teeth | |  | |
| TP2 | 18 | *Martes americana* (?) | RM1 | |  | |
| TP2 | 18 | *Lagopus* sp. | complete left humerus | | slightly larger than male at DNMH | |
| TP2 | 19 | *Sorex palustris* | left mandible with no teeth | | large, good comparison | |
| TP2 | 19 | *Marmota* | LM1, RM1, LP3; left mandible with i1, p4-m3; Li1; top of cranium | |  | |
| TP2 | 19 | *Urocitellus elegans* | right mandible with m2 | | confirm identification | |
| TP2 | 19 | *Ochotona* | right mandible with teeth fragments; left mandible with no teeth | |  | |
| TP2 | 19 | *Mustela* (?) | left mandible | | robust, not *M. frenata*, *M*. *vison* or *Martes* | |
| TP2 | 19 | *Buteo* cf*. B. jamaicensis* | distal left tarsometatarsus | | size of female | |
| TP2 | 20 | *Marmota* | 2Rm2, LM1, Lm3, RM1; right distal mandible fragment | |  | |
| TP2 | 20 | *Ochotona* | 2 right proximal 1/2 mandibles with no teeth; left distal 1/2 mandible with teeth | |  | |
| TP2 | 20 | *Mustela frenata* (?) | left mandible with m1 | |  | |
| TP2 | 21 | *Marmota* | LP3, Rm1, right mandible with no teeth, right medial mandible with no teeth, proximal 1/2 left femur, proximal 1/2 left tibia with no epiphysis | |
| TP2 | 21 | *Ochotona* | right mandible with m1; right distal 1/2 mandible with p4 | |  | |
| TP2 | 21 | *Dendragapus obscurus* | distal 1/2 right femur with end damaged | |  | |
| TP2 | 21 | *Lagopus* | distal left tarsometatarsus missing trochlea | |  | |
| TP2 | 21 | Anatidae | proximal half left carpometacarpus | | closest to *Mergus*, but too small | |
| TP2 | 21 | *Ovis canadensis* | atlas vertebra | | NE Quad, in situ; similar in size to DMNH 8247; deer has a more flattened vertebra with broader 'wings' | |
| TP2 | 22 | *Marmota* | RM2, RM1, one worn tooth fragment; right medial maxilla with no teeth | |  | |
| TP2 | 22 | *Ochotona* | right mandible with m1; right mandible with no teeth; right mandible with m1-2; left proximal 1/2 mandible with no teeth; 2 mandible fragments with no teeth | |
| TP2 | 22 | *Martes americana* (?) | Rp3 | |  | |
| TP2 | 22 | *Syvilagus* | medial mandible fragment with no teeth; left maxilla with no teeth | |  | |
| TP2 | 22 | *Neotoma* | fragment of left maxilla with M1; medial left maxilla with M1-2; medial right maxilla with M1-2 | |
| TP2 | 22 | *Lemmiscus curtatus* | left mandible with m1-2; right mandible with fragmented m1-2; right mandible with m1; 2 right mandibles with m1-2 | |
| TP2 | 22 | *Urocitellus* or *Callospermophilus* | distal left mandible with no teeth; medial right mandible with no teeth; 4 medial maxillae fragments with no teeth | |
| TP2 | 22 | *Urocitellus elegans* | Rm3, LM1 | |  | |
| TP2 | 22 | *Tamias* | left mandible with p4 | | size of *T*. *minimus*, smaller than female *T. quadrivittatus* | |
| TP2 | 23 | *Marmota* | Lm3, Lm2, Rm2, RP3, LP4, 2RM1, left medial maxilla with no teeth | |  | |
| TP2 | 23 | *Ochotona* | right mandible with p4-m2; right maxilla with no teeth | |  | |
| TP2 | 23 | *Mustela frenata* (?) | Lp4 | |  | |
| TP2 | 23 | *Vulpes vulpes* | RM1 | |  | |
| TP2 | 23 | *Dendragapus obscurus* | left femur missing ends, distal shaft right femur | |  | |
| TP2 | 24 | *Marmota* | RP4, Lp4, right maxilla with M1-2; proximal 1/2 right ulna | |  | |
| TP2 | 25 | *Marmota* | LP3, 2RM1, LP4, RP4, right tibia with proximal end damaged | |  | |
| TP2 | 25 | *Ovis canadensis* | astragalus | | in situ; has 'V' shape on condyle as in *Ovis*, rounded in *Odocoileus* | |
| TP2 | 26 | *Marmota* | Lm3, 3Rm2, 2Rm3, LM1, 2RM1, LP4, RP4, one worn tooth fragment | |  | |
| TP2 | 26 | *Anas* | furculum | | size of *A. crecca* | |
| TP2 | 27 | *Marmota* | Lm3, Rm2, LM1, right maxilla with no teeth | |  | |
| TP2 | 27 | *Mustela frenata* (?) | LP4 | |  | |
| TP2 | 27 | *Ochotona* | right mandible with p4-m3 | |  | |
| TP2 | 27 | *Thomomys* | distal halft right mandible with i1, p4-m1 | |  | |
| TP2 | 27 | *Urocitellus elegans* | medial right maxilla with M1-2; medial left maxilla with no teeth; Lm2, Lm3 | |  | |
| TP2 | 27 | *Lemmiscus curtatus* | 3 left mandibles with m1-2; 2 right mandibles with m1-2 | |  | |
| TP2 | 27 | Artiodactyla | half of proximal end of right radius | | could be *Ovis* | |
| TP2 | 28 | *Lagopus* sp. | distal left tarsometatarsus | | slightly smaller than female *L. lagopus* | |
| TP2 | 28 | *Lagopus* sp. | proximal half left tarsometatarsus | | slightly smaller than female *L. lagopus* | |
| TP2 | 28 | Aves | two eggshell pieces | |  | |
| TP2 | 28 | *Ovis canadensis* | right m1 | |  | |
| TP2 | 29 | *Marmota* | right maxilla with no teeth | |  | |
| TP2 | 29 | *Lagopus* sp. | distal right tarsometatarsus missing middle trochlea | | slightly smaller than female *L. lagopus* | |
| TP2 | 30 | *Marmota* | Lm1, Rm1, right medial mandible with no teeth, right medial mandible fragment with no teeth | |
| TP2 | 30 | *Ovis canadensis* | left acetabulum fragment | | large and robust, lacking deep pit as in *Odocoileus* | |
| TP2 | 30 | Artiodactyla | left radius missing distal end, worn proximal end | | small, either imm *Ovis* or *Odocoileus* | |
| TP2 | 30 | *Lagopus* sp. | proximal half right carpometacarpus | | slightly smaller than female *L. lagopus* | |
| TP2 | 31 | *Marmota* | Lp4, Rm2, one worn tooth fragment | |  | |
| TP2 | 31 | *Urocitellus elegans* | 2Rm1, Rm3, Lm1 | |  | |
| TP2 | 31 | *Lemmiscus curtatus* | 2 left mandibles with m1-2; left mandible with m1; 2 right mandibles with m1-2 | |  | |
| TP2 | 31 | *Ochotona* | distal half right mandible with no teeth; medial right mandible with no teeth | |  | |
| TP2 | 31 | *Neotoma* | LM2, RM1, LM3; medial left mandible with no teeth | |  | |
| TP2 | 31 | *Mustela sp.* | right mandible with c1, p1-3, m1 | | smaller than female *M. frenata* and in range of male *M.* *erminea* | |
| TP2 | 32 | *Marmota* | maxilla fragment; LI1 | |  | |
| TP2 | 32 | *Urocitellus* or *Callospermophilus* | medial right mandible with no teeth | |  | |
| TP2 | 32 | *Lemmiscus curtatus* | left mandible with m1-2 | |  | |
| TP2 | 32 | *Ochotona* | LM1 or 2; medial left maxilla with no teeth | |  | |
| TP2 | 32 | *Neotoma* | RM1 | |  | |
| TP2 | 33 | *Marmota* | maxilla fragment | |  | |
| TP2 | 33 | *Lagopus* sp. | digit 2 phalanx 1 | | slightly smaller than male *L. lagopus* | |
| TP2 | 33 | Falconiformes | ungual phalange | | small *Buteo* in size | |
| TP2 | 35 | *Marmota* | Rm2, Lm3 | |  | |
| TP2 | 35 | *Mustela frenata* (?) | RP4 | |  | |
| TP2 | 35 | *Lagopus leucurus* | left tarsometatarsus missing proximal end | |  | |
| TP2 | 35 | *Ovis canadensis* | complete first phalanx | | more robust than *Odocoileus* | |
| TP2 | 36 | *Marmota* | Ri1, proximal 1/2 left femur | |  | |
| TP2 | 36 | *Lagopus leucurus* | complete left tarsometatarsus | |  | |
| TP2 | 37 | *Marmota* | 2LP4, RM1, 2LM3, LM2 | |  | |
| TP2 | 37 | *Canis latrans* (?) | RC1 | | similar in size to *C. latrans*, not a felid | |
| TP2 | 38 | *Brachyprotoma* | left mandible missing proximal end, with i1, p4, m1 | | short jaw, robust, bigger than frenata, smaller than vison; closest to *Spilogale*, but not a perfect match; compares well with extinct *Brachyprotoma* at USNM | |
| TP2 | 38 | *Lagopus* cf*. L. leucurus* | distal 1/2 left tarsometatarsus (imm) | |  | |
| TP2 | 38 | *Ovis canadensis* | fragmented left maxilla with P3-M3 | | *in situ* | |
| TP2 | 38 | Carnivora | RC1 | | not *Canis latrans, Lynx, Vulpes* or *Urocyon* (too small), not *Gulo* or *Martes* | |
| TP2 burrow fill | 17 | *Colaptes auratus* | proximal right humerus | |  | |
| TP2 burrow fill | 21 | *Passeriformes* | complete left humerus | | not *Turdus*, but closest to this; not *Aegalius*, Fringillid, Cinclid, corvid, waxwing | |
| TP2 SW Quad | 11-15 | *Mustela frenata* (?) | medial right mandible with p3-m2 | |  | |
| TP2 SW Quad | 11-15 | *Ursus americanus* | LI3 | |  | |
| TP2 SE Quad | 15 | *Dendragapus obscurus* | complete left humerus | | size of male; *D. canadensis* and *Bonasa umbellus* males much smaller, female *Centrocercus* larger | |
| TP2 SE Quad | 15 | *Erethizon dorsatum* | left M, perhaps M3 | |  | |
| TP2 NW Quad | 15 | *Ochotona* | medial left mandible with m3 | |  | |
| TP2 NW Quad | 15 | *Thomomys talpoides* | left mandible with no teeth; medial maxilla with no teeth | |  | |
| TP2 NW Quad | 15 | *Urocitellus elegans* | worn right m1 or m2; right maxilla with P4-M2; 2LM1; worn LM3 | |  | |
| TP2 NW Quad | 15 | *Lemmiscus curtatus* | right mandible with m1-2; medial right mandible with m1; medial left mandible with m1; medial left mandible with m2; medial left mandible with m1-2; medial left mandible with m1 (juv.) | |
| TP2 NW Quad | 15 | *Mustela* cf. *M. frenata* | distal left mandible with c1, p2 | | compares well in size | |
| TP2 NW Corner below Travertine | 14 | *Marmota* | right premaxilla with I1 | |  | |
| TP2 NW Corner below Travertine | 14 | Leporid | distal left mandible with no teeth | | size of *Lepus* | |
| TP2 NW Corner below Travertine | 14 | *Urocitellus elegans* | left mandible with m1-3 | |  | |
| TP2 NW Corner below Travertine | 14 | cf*. Lemmiscus curtatus* | left mandible with m1; left mandible with m1-2 (juv.) | |  | |
| TP2 NW Corner below Travertine | 14 | *Ochotona* | medial left mandible with p4-m2 | |  | |
| TP2 NW Corner below Travertine | 14 | cf. *Ovis canadensis* | fragment of calcaneum | |  | |
| TP2 NW Corner below Travertine | 14 | *Neotoma* | LM2, RM2 | |  | |
| TP2 NE | 1 | *Dendragapus obscurus* | left coracoid with ends damaged | |  | |
| TP2 NE | 3 | *Dendragapus obscurus* | left scapula with damaged ends | |  | |
| TP2 NE | 7 | *Lemmiscus curtatus* | right mandible with m1-2 | | used for C14 dating, 8 March 2012 | |
| TP2 NE | 8 | *Dendragapus obscurus* | shaft left femur | |  | |
| TP2 NE | 8 | *Microtus pennsylvanicus* | maxilla with LM1 | | right side removed for C14, 19 Oct. 10 | |
| TP2 NE | 12 | *Dendragapus obscurus* | right tibiotarsus with ends damaged, proximal right scapula, proximal left coracoid | |
| TP2 NE | 12 | *Phenacomys intermedius* | right mandible with i1, m1-2 | | i1 removed for C14 analysis, 19 Oct. 10 | |
| TP2 NE | 16 | *Lagopus* sp. | left tarsometatarsus mising proximal end | | larger than *L. leucurus* | |
| TP2 NE | 5 | *Peromyscus* | right mandible with i1, m1-3 | |  | |
| TP2 NE | 5 | *Peromyscus* | left mandible with no teeth | |  | |
| TP2 NE | 5 | *Microstus montanus* (?) | left maxilla with M1-2 | |  | |
| TP2 NE | 5 | *Microtus montanus* | three LM1, LM3, RM1, two RM2, LM2 | |  | |
| TP2 NE | 5 | *Microtus montanus* | Lm2, Rm3 | |  | |
| TP2 NE | 5 | *Microtus pennsylvanicus* | maxilla with RM3 | |  | |
| TP2 NE | 5 | *Microtus pennsylvanicus* | two Lm1, Lm2, Rm1, Rm2 | |  | |
| TP2 NE | 5 | *Microtus longicaudus* | two Lm1, Rm1 | |  | |
| TP2 NE | 5 | *Lemmiscus curtatus* | LM1, Rm1 | | Rm1 pulled for C14 dating, 8 March 2012 | |
| TP2 NE | 5 | *Neotoma* | RM2, two LM2, Rm2, Lm2 | |  | |
| TP2 NE | 5 | *Thomomys* | LP4, Rp4, two Lm1 or 2, LM1 or 2, RM1 or 2, RM3 | |  | |
| TP2 NE | 5 | *Phenacomys* | Rm1 | |  | |
| TP2 NE | 5 | *Ochotona* | Rp3 | |  | |
| TP2 NE | 5 | *Ochotona* | left maxilla with M1 | |  | |
| TP2 NE | 5 | *Ochotona* | LM3 | |  | |
| TP2 NE | 5 | *Ochotona* | distal right humerus | |  | |
| TP2 NE | 5 | *Lepus townsendii* | Rm3 | | compares well in size to USNM specimen | |
| TP2 NE | 5 | *Callospermophilus lateralis* | Rm1 | |  | |
| TP2 NE | 9 | *Dendragapus obscurus* | sternal end right coracoid | |  | |
| TP2 NE | 9 | *Sylvilagus* | Lp4 or m1, RM1 or 2 | |  | |
| TP2 NE | 9 | *Thomomys* | 5R and 4L mandibles with no teeth | |  | |
| TP2 NE | 9 | *Thomomys* | maxilla and premax with no teeth | |  | |
| TP2 NE | 9 | *Thomomys* | 7Lp4, 4Rp4, 2RP4 | |  | |
| TP2 NE | 9 | *Neotoma* | Lm2, RM2, LM1 (partial) | |  | |
| TP2 NE | 9 | *Peromyscus* | skull with LI1, RI1, RM1, LM1-M2 | |  | |
| TP2 NE | 9 | *Peromyscus* | 3 complete right mandibles with i1, m1-3; right mandible with m1-3 | |  | |
| TP2 NE | 9 | *Peromyscus* | right mandible with i1, m1-2; right mandible with m1 | |  | |
| TP2 NE | 9 | *Peromyscus* | 3 left mandibles with i1, m1-3 | |  | |
| TP2 NE | 9 | *Peromyscus* | left mandible with i1; right mandible with i1 | |  | |
| TP2 NE | 9 | *Peromyscus* | 2Rm1, 5LM1, 2RM1, LM2 | |  | |
| TP2 NE | 9 | *Lemmiscus curtatus* | rt mandible with m1-2 | |  | |
| TP2 NE | 9 | *Lemmiscus curtatus* | Rm1 | |  | |
| TP2 NE | 9 | *Myodes* | RM2 | |  | |
| TP2 NE | 9 | *Myodes* | Rm3? | |  | |
| TP2 NE | 9 | *Phenacomys* | Rm2, Rm3 | |  | |
| TP2 NE | 9 | *Microtus* | 7L and 2R mandibles with no teeth | |  | |
| TP2 NE | 9 | *Microtus* | right mandible with i1, m1-2 | | very similar in size and characters to *M. pennsylvanicus* | |
| TP2 NE | 9 | *Microtus* | 9Lm1, 6Rm1, 3Rm2, 2Rm3, 5Lm2, Lm3 | |  | |
| TP2 NE | 9 | *Microtus* | 7RM1, 7RM2, 3RM3, 3LM1, 3LM2, 4LM3 | |  | |
| TP2 NE | 9 | *Marmota* | Rp4 | |  | |
| TP2 NE | 9 | *Urocitellus elegans* | Rm3, Lm2, RP4 or M | |  | |
| TP2 NE | 9 | *Callospermophilus lateralis* | 2LM1, RP4, 2RM1 or 2 | |  | |
| TP2 NE | 9 | *Callospermophilus lateralis* | right maxilla with no teeth | |  | |
| TP2 NE |  |  |  | |  | |
| TP2 NE | 10 | *Dendragapus obscurus* | humeral end right coracoid | |  | |
| TP2 NE | 10 | *Lepus americanus* | humeral half left scapula | | compares well with *L. a. americanus* from Canada, Michigan, USNM specimens 11/24/10 | |
| TP2 NE | 10 | *Lepus americanus* | LM1 | |  | |
| TP2 NE | 10 | *Thomomys* | five left and two right mandibles with no teeth | | two left mandibles have incisors | |
| TP2 NE | 10 | *Thomomys* | two maxilla and one premaxilla with no teeth | |  | |
| TP2 NE | 10 | *Thomomys* | three Rp4, three Lp4; LP4, two RP4, LM1 or 2, RM1 or 2, Rm1 or 2 | |  | |
| TP2 NE | 10 | *Neotoma* | left mandible with m1 | |  | |
| TP2 NE | 10 | *Neotoma* | medial left mandible with m1 | |  | |
| TP2 NE | 10 | *Neotoma* | medial right maxilla with M2-3 | |  | |
| TP2 NE | 10 | *Neotoma* | medial right mandible with m1-2 | |  | |
| TP2 NE | 10 | *Neotoma* | two Rm1, Rm2, Lm2, Lm3, two LM1, two LM2, LM3, two RM3 | |  | |
| TP2 NE | 10 | *Tamiasciurus hudonicus* | two Rm1 | |  | |
| TP2 NE | 10 | *Tamias* | LM1 or 2; RP4 | |  | |
| TP2 NE | 10 | *Urocitellus elegans* | Rm1 | |  | |
| TP2 NE | 10 | *Peromyscus* | two Rm1, Lm2 | |  | |
| TP2 NE | 10 | *Peromyscus* | right mandible with i1, m1-2 | |  | |
| TP2 NE | 10 | *Peromyscus* | right mandible with i1, m1 | |  | |
| TP2 NE | 10 | *Peromyscus* | two right mandibles with i1, m1-2 | | very worn teeth | |
| TP2 NE | 10 | *Peromyscus* | Lm1 | | very worn | |
| TP2 NE | 10 | *Peromyscus* | left mandible with i1 | |  | |
| TP2 NE | 10 | *Lemmiscus curtatus* | left mandible with m1-2 | |  | |
| TP2 NE | 10 | *Lemmiscus curtatus* | right mandible with m1-2 | | m1 removed and saved, rest pulled for C14 8 March 2012 | |
| TP2 NE | 10 | *Lemmiscus curtatus* | Lm1, three Rm2 | |  | |
| TP2 NE | 10 | *Lemmiscus curtatus* | RM1 | |  | |
| TP2 NE | 10 | *Microtus pennsylvanicus* | three Rm1, eight Lm1, Lm2, two Lm3, four Rm3 | |  | |
| TP2 NE | 10 | *Microtus pennsylvanicus* | seven LM1, six LM2, six LM3, ten RM1, nine RM2, four RM3 | |  | |
| TP2 NE | 10 | *Microtus longicaudus* | LM1 | |  | |
| TP2 NE | 10 | *Myodes gapperi* | Rm1 | |  | |
| TP2 NE | 10 | *Phenacomys* | Lm2 | |  | |
| TP2 NE |  |  |  | |  | |
| TP2 NE | 11 | *Dendragapus obscurus* | left coracoid, humeral end left coracoid, left scapula | |  | |
| TP2 NE | 11 | *Bubo virginianus* | premaxilla | | compared to *Nyctea* (distal tip shorter and broader), *Strix* (too small) | |
| TP2 NE | 11 | *Colaptes auratus* | distal half left humerus | |  | |
| TP2 NE | 11 | Soricidae | two right mandibles | |  | |
| TP2 NE | 11 | Leporidae | thoracic and two cervical vertebrae | |  | |
| TP2 NE | 11 | *Ochotona* | LP3, LM1 or 2, LM3 | |  | |
| TP2 NE | 11 | *Ochotona* | RM1 or 2 | |  | |
| TP2 NE | 11 | *Lepus americanus* | distal right tibia; metatarsal missing distal end | |  | |
| TP2 NE | 11 | *Lepus americanus* | Rp3, RP2, RM1 | |  | |
| TP2 NE | 11 | *Lepus americanus* | premaxilla with LI1 | |  | |
| TP2 NE | 11 | *Lepus* sp. | Lm3 | |  | |
| TP2 NE | 11 | *Thomomys* | 3 left mandibles (2 with i1), 2 right mandibles with no teeth, right mandible with i1, p4-m1 | |
| TP2 NE | 11 | *Thomomys* | 6M or m; 5Lp4, Rp4, 3LP4, 2RP4 | |  | |
| TP2 NE | 11 | *Marmota* | right mandible with p4-m2 | | Rp4 used in stable isotope analysis, 10 Dec. 2010 | |
| TP2 NE | 11 | *Marmota* | Lp4 (juv.), Lm1, RM2 | |  | |
| TP2 NE | 11 | *Urocitellus elegans* | Lp4, Lm2, 2Lm3, Rm1, 2Rm2, Rm3 | |  | |
| TP2 NE | 11 | *Urocitellus elegans* | 3LP4, RP4, 2RM1, 2RM3 | |  | |
| TP2 NE | 11 | *Callospermophilus lateralis* | Lm3, Rm1, Rm2, Rm3 | |  | |
| TP2 NE | 11 | *Callospermophilus lateralis* | LM1, RM1 or 2 | |  | |
| TP2 NE | 11 | *Tamiasciurus hudsonicus* | Lp4 | |  | |
| TP2 NE | 11 | *Tamias* sp. | Lm2 | |  | |
| TP2 NE | 11 | cf. *Cynomys* sp. | left p4 | | distinctly larger than *Urocitellus*, compares well in size and characters to *C. gunnisoni* except in having more robust distal lateral cusp | |
| TP2 NE | 11 | Arvicolinae | 1 left mandible with i1; 5 distal right mandibles (1 with i1) | |  | |
| TP2 NE | 11 | *Phenacomys* | left mandible with i1, m1-3; left mandible with m1; right mandible with i1 | |  | |
| TP2 NE | 11 | *Phenacomys* | Lm1, Lm3 | |  | |
| TP2 NE | 11 | *Phenacomys* | 3LM2, LM3, RM1 | |  | |
| TP2 NE | 11 | *Lemmiscus* | left mandible with i1, m1-2; two left mandibles with m1; two left mandibles with m1-2; right mandible with i1, m2; two right mandibles with m1-2; right mandible with m2 | |
| TP2 NE | 11 | *Lemmiscus* | left maxilla with M1 | |  | |
| TP2 NE | 11 | *Lemmiscus* | 3LM1, 5LM2, 2LM3, 5RM1, 3RM2, 3RM3 | |  | |
| TP2 NE | 11 | *Lemmiscus* | 12Lm1, 9Lm2, 2Lm3, 10Rm1, 4Rm2, 2Rm3 | |  | |
| TP2 NE | 11 | *Microtus* | left mandible with m2; left mandible with i1, m2; right mandible with i1, m1; right mandible with m2 | |
| TP2 NE | 11 | *Microtus* | skull with LM1 and RM3 | |  | |
| TP2 NE | 11 | *Microtus* | 8LM1, 4LM2, 11LM3, 9RM1, 6RM2, RM3 | |  | |
| TP2 NE | 11 | *Microtus* | 8Lm1, 4Lm2, 6Lm3, 11Rm1, 3Rm2, 4Rm3 | |  | |
| TP2 NE | 11 | *Myodes* | right mandible with i1, m1-3 | |  | |
| TP2 NE | 11 | *Myodes* | LM1, 2LM3, RM1 | |  | |
| TP2 NE | 11 | *Myodes* | 2Lm1, Rm1 | |  | |
| TP2 NE | 11 | *Neotoma* | two right maxillae with M1-2 | |  | |
| TP2 NE | 11 | *Neotoma* | left maxilla with M1 | | M1 sampled with SIA, 7 Jan 2010 | |
| TP2 NE | 11 | *Neotoma* | right maxilla with M1 | | M1 sampled with SIA, 7 Jan 2010 | |
| TP2 NE | 11 | *Neotoma* | 2Lm2, 2Rm1, 4Rm2, 2Rm3 | |  | |
| TP2 NE | 11 | *Neotoma* | LM2, 4LM3, 3RM2, 3RM3 | |  | |
| TP2 NE | 11 | *Peromyscus* | left mandible with i1; two right mandibles with i1, m1-3; three right mandibles with i1; right mandible with no teeth | |
| TP2 NE | 11 | *Peromyscus* | 2Rm1, Rm2 | |  | |
| TP2 NE | 11 | *Peromyscus* | LM1, LM2, RM1 | |  | |
| TP2 NE | 11 | *Mustela frenata* | left mandible with p4-m1; left mandible with m1-2 | |  | |
| TP2 NE | 11 | *Mustela* sp. | right mandible with m1 | | smaller than *M. frenata* | |
| TP2 NE | 11 | *Mustela* sp. | Lp3, Lp4 | |  | |
| TP2 NE |  |  |  | |  | |
| TP2 NE | 12 | Aves | right tibiotarsus missing ends, humeral end right scapula, left coracoid missing sternal end | | all appear to be *Dendragapus* but need confirmation | |
| TP2 NE | 12 | *Pinicola enucleator* | left mandible | | compares well, not similar to other genera of grosbeak | |
| TP2 NE | 12 | *Ochotona* | left mandible with p4-m2; medial right mandible with no teeth | |  | |
| TP2 NE | 12 | *Ochotona* | LM indet from wear | |  | |
| TP2 NE | 12 | *Ochotona* | Lm1 or 2 | |  | |
| TP2 NE | 12 | *Lepus americanus* | medial left innominate; left calcaneum | |  | |
| TP2 NE | 12 | *Lepus americanus* | Lp4 or m1, Lm1 or 2 | |  | |
| TP2 NE | 12 | *Lepus townsendii* | distal half metatarsal | |  | |
| TP2 NE | 12 | *Lepus townsendii* | RP4 or M1, LP4 or M1 (broken) | |  | |
| TP2 NE | 12 | *Sylvilagus* | Lp4 | |  | |
| TP2 NE | 12 | *Marmota* | medial right maxilla with M3 | | M3 used for SIA and C14 analyses by B. McLean, 11 Dec. 2010 | |
| TP2 NE | 12 | *Marmota* | RM1 or 2 | |  | |
| TP2 NE | 12 | *Marmota* | Lm1 | |  | |
| TP2 NE | 12 | *Tamias* | medial right mandible with m1-3 | |  | |
| TP2 NE | 12 | *Urocitellus elegans* | medial right mandible with no teeth | |  | |
| TP2 NE | 12 | *Urocitellus elegans* | 2LM3, RM1 | |  | |
| TP2 NE | 12 | *Urocitellus elegans* | Lp4, Rp4, Rm2 | |  | |
| TP2 NE | 12 | *Neotoma* | nearly complete skull with no teeth except RI1; right mandible with i1, m1-2 | |  | |
| TP2 NE | 12 | *Neotoma* | RM2 | |  | |
| TP2 NE | 12 | *Neotoma* | Lm3, Rm3 | |  | |
| TP2 NE | 12 | *Phenacomys* | right mandible with i1, m1-2 | | i1 used for C14 date, 10/19/2010 | |
| TP2 NE | 12 | *Phenacomys* | LM3, RM2 | |  | |
| TP2 NE | 12 | *Phenacomys* | Rm3 | |  | |
| TP2 NE | 12 | *Microtus* | maxilla with LM1-2 and RM1-2 | |  | |
| TP2 NE | 12 | *Microtus* | left mandible with m2; right mandible with m1-2; right mandible with m2 | |  | |
| TP2 NE | 12 | *Microtus* | 5LM1, LM2, 2LM3, RM1, 3RM2, 3RM3 | |  | |
| TP2 NE | 12 | *Microtus* | Lm1, 3Rm1, 2Rm2 | |  | |
| TP2 NE | 12 | *Myodes* | left mandible with i1, m1-2 | |  | |
| TP2 NE | 12 | *Lemmiscus curtatus* | left mandible with m1-2; right mandible with m1-2 | |  | |
| TP2 NE | 12 | *Lemmiscus curtatus* | 3LM1, LM2, 3RM1, RM2 | |  | |
| TP2 NE | 12 | *Lemmiscus curtatus* | 6Lm1, 3Lm2, 7Rm1, 2Rm2 | |  | |
| TP2 NE | 12 | Arvicolinae | right mandible with no teeth | |  | |
| TP2 NE | 12 | *Peromyscus* | skull with no teeth except RI1 and LI1 | | in fragments | |
| TP2 NE | 12 | *Peromyscus* | right mandible with i1, m1-3; two right mandibles with i1 | |  | |
| TP2 NE | 12 | *Peromyscus* | LM1, RM1 | |  | |
| TP2 NE | 13 | Aves | proximal left mandible; thoracic vertebra | |  | |
| TP2 NE | 13 | *Lagopus*? | proximal half left carpometacarpus, left tarsometatarsus missing ends | | both need to be confirmed | |
| TP2 NE | 13 | Soricidae | complete right mandible with i1, p4-m3; right mandible with m2-3 | |  | |
| TP2 NE | 13 | *Lepus townsendii* | right humerus missing ends | |  | |
| TP2 NE | 13 | *Lepus americanus* | proximal end right tibia; humeral end left scapula; proximal metatarsal; two fragments lumbar vertebrae; proximal left radius | |
| TP2 NE | 13 | *Lepus americanus* | 2LM1 or 2 | |  | |
| TP2 NE | 13 | *Sylvilagus* | Lp3, Rm or p, Rm3 | |  | |
| TP2 NE | 13 | *Ochotona* | Lm1 or 2, Rp3, 2Rm1 or 2 | |  | |
| TP2 NE | 13 | *Ochotona* | RM3 | |  | |
| TP2 NE | 13 | Leporidae | RM1 or 2 | | size of *Brachylagus*, but need more specimens | |
| TP2 NE | 13 | *Microtus* | left maxilla with M2; right maxilla with M1 | |  | |
| TP2 NE | 13 | *Microtus* | left mandible with m1; distal left mandible with i1 and m1; right mandible with m1-2 | |
| TP2 NE | 13 | *Microtus* | 2Lm1, 10Lm2, 4Lm3, 3Rm1, 5Rm2, 2Rm3, 9LM1, 11LM2, 6LM3, 6RM1, 6RM2, 5RM3 | |
| TP2 NE | 13 | *Phenacomys* | LM1, RM1, RM2 | | two are juvenile teeth | |
| TP2 NE | 13 | *Lemmiscus curtatus* | left mandible with i1 and m2; distal half left mandible with m1 | | used for C14 date, 8 March 2012 | |
| TP2 NE | 13 | *Lemmiscus curtatus* | left mandible with m1-2; left mandible with i1 and m1 | |  | |
| TP2 NE | 13 | *Lemmiscus curtatus* | 10Lm1, 8Lm2, 2Lm3, 9Rm1, 5Rm2, 4Rm3 | |  | |
| TP2 NE | 13 | *Lemmiscus curtatus* | 2LM1, 5LM2, 3LM3, 3RM1, 3RM2, 4RM3 | |  | |
| TP2 NE | 13 | Arvicolinae | maxilla with no teeth; three left mandibles with no teeth; four right mandibles with no teeth; distal right mandible with i1; right mandible with i1 | |
| TP2 NE | 13 | *Thomomys* | maxilla with no teeth; premaxilla and skull portion with no teeth | |  | |
| TP2 NE | 13 | *Thomomys* | left mandible with no teeth; right mandible with i1-m2; distal right mandible with no teeth; medial right mandible with no teeth | |
| TP2 NE | 13 | *Thomomys* | 2Lp4, 3Rp4, 8 cheek teeth | |  | |
| TP2 NE | 13 | *Neotoma* | distal right mandible with no teeth | |  | |
| TP2 NE | 13 | *Neotoma* | LM2, RM1, RM2, RM3 | |  | |
| TP2 NE | 13 | *Neotoma* | 5Lm1, 6Lm2, Rm1 (broken), 2Rm2, 3Rm3 | |  | |
| TP2 NE | 13 | *Peromyscus* | left mandible with i1, m1-2; right mandible with i1 and m1-3 | |  | |
| TP2 NE | 13 | *Peromyscus* | LM2, RM1 | |  | |
| TP2 NE | 13 | *Peromyscus* | 3Lm1, Lm2, 3Rm1 | |  | |
| TP2 NE | 13 | *Marmota* | Rp4 (deciduous) | |  | |
| TP2 NE | 13 | *Callospermophilus lateralis* | Lm1, Rm1, Rm3 | |  | |
| TP2 NE | 13 | *Urocitellus elegans* | LP3, 2LP4, RP4, 3RM1, RM2 | |  | |
| TP2 NE | 13 | *Urocitellus elegans* | Lp4, 3Lm1, 2Lm2, 3Lm3, Rm1, Rm3 | |  | |
| TP2 NE | 13 | *Tamias* | LM1 | | larger than *T. minimus* | |
| TP2 NE | 13 | Sciuridae | Rp4 | | similar to *Marmota*, but about half the size, need to check more | |
| TP2 NE | 13 | Sciuridae | medial left mandible with no teeth | | possibly *C. lateralis* | |
| TP2 NE | 13 | Carnivora | LC1 | | small, perhaps *Martes*, but need more material | |
| TP2 NE |  |  |  | |  | |
| TP2 NE | 14 | *Sorex cinereus* | right mandible with m1-2 | |  | |
| TP2 NE | 14 | *Sorex monticolus* | left mandible with i1, p4-m3 | |  | |
| TP2 NE | 14 | *Sorex monticolus* | left mandible with i1, m1-2 | |  | |
| TP2 NE | 14 | *Sorex monticolus* | right mandible with m1-3 | |  | |
| TP2 NE | 14 | *Sorex preblei* | right mandible with m1-3 | |  | |
| TP2 NE | 14 | *Ochotona* | distal right mandible with i1, p3-4 | |  | |
| TP2 NE | 14 | *Ochotona* | 2LP4, 7LM1 or 2, 5LM3, 3RM1 or 2, 2RM3 | |  | |
| TP2 NE | 14 | *Ochotona* | Lp3, Lp4, Lm1 or 2, Rp3 | |  | |
| TP2 NE | 14 | *Sylvilagus* | LP2, 2LP4 or M1, LM2, 2RP2, RP4 or M1 | |  | |
| TP2 NE | 14 | *Sylvilagus* | Lp3, Lp4 or m1, Rp3 | |  | |
| TP2 NE | 14 | *Lepus americanus* | distal right femur | | sent for C14 dating, 12/27/10 | |
| TP2 NE | 14 | *Lepus americanus* | LP2, RM1 or 2 | |  | |
| TP2 NE | 14 | *Lepus americanus* | Rp4 or m1 | |  | |
| TP2 NE | 14 | *Lepus sp.* | RM1 or 2 | | broken | |
| TP2 NE | 14 | *Lepus townsendii* | RP3 | |  | |
| TP2 NE | 14 | *Marmota* | Li1, Lm1, Rp4, Rm1 (broken) | |  | |
| TP2 NE | 14 | *Marmota* | Li1 | | submitted for C14 analysis to CAIS, 26 Dec. 2011 | |
| TP2 NE | 14 | *Microtus pennsylvanicus* | maxilla with LM1 | | LMI removed and maxilla sent for C14 analysis, Nov. 2011 | |
| TP2 NE | 14 | *Microtus* | maxilla with LM2; maxilla with LM1-2, RM1; 2 right maxillae with M1 | |  | |
| TP2 NE | 14 | *Microtus* | 12Lm1, Lm2, 8Lm3, 9Rm1, 8Rm2, 10Rm3 | |  | |
| TP2 NE | 14 | *Microtus* | 10LM1, 14LM2, 7LM3, 12RM1, 13RM2, 8RM3 | |  | |
| TP2 NE | 14 | Arvicolinae | 4 left and 6 right mandibles with i1; right mandible with no teeth; right mandible with m1-2 | | all are either *Microtus* or *Lemmiscus* | |
| TP2 NE | 14 | *Lemmiscus curtatus* | right mandible with i1 and m1 | | Rm1 pulled and saved, rest sent for C14 Nov. 2011; Rm1 sent for C14, 8 March 2012 | |
| TP2 NE | 14 | *Lemmiscus curtatus* | 2 right maxillae with M1-2; left maxilla with M1 | |  | |
| TP2 NE | 14 | *Lemmiscus curtatus* | left mandible with i1, m2; left mandible with i1, m1-2; left mandible with m1-2; left mandible with m2; left mandible with i1, m1; 2 right mandibles with i1, m1-2; right mandible with m1-2 | |
| TP2 NE | 14 | *Lemmiscus curtatus* | 14Lm1, 14Rm1 | |  | |
| TP2 NE | 14 | *Lemmiscus curtatus* | 6Lm1, 18Lm2, 9Lm3, 3Rm1, 12Rm2, 19Rm3 | |  | |
| TP2 NE | 14 | *Lemmiscus curtatus* | 9LM1, 10LM2, 11LM3, 5RM1, 20RM2, 11RM3 | |  | |
| TP2 NE | 14 | *Myodes* | Lm2 | |  | |
| TP2 NE | 14 | *Phenacomys* | Lm1, Lm2, 2Rm1, Rm3 | |  | |
| TP2 NE | 14 | *Phenacomys* | LM1, LM2, 2RM1, 2RM3 | |  | |
| TP2 NE | 14 | *Neotoma* | medial right mandible with no teeth | |  | |
| TP2 NE | 14 | *Neotoma* | Lm1, Lm2, 3Lm3, 2Rm1, Rm2, 3Rm3 | |  | |
| TP2 NE | 14 | *Neotoma* | 3LM1, 2LM3, 2RM1, 2RM2, 5RM3 | |  | |
| TP2 NE | 14 | *Thomomys* | two right and one left mandibles with no teeth; right mandible with i1; left mandible with i1; right mandible with p4-m1 | |
| TP2 NE | 14 | *Thomomys* | LP4, 5RP4 | |  | |
| TP2 NE | 14 | *Thomomys* | 2Lp4, 3Rp4 | |  | |
| TP2 NE | 14 | *Thomomys* | 26 M or m | |  | |
| TP2 NE | 14 | *Tamias* | right mandible with m1 | |  | |
| TP2 NE | 14 | *Tamias* | LP4 (large), 2RM2, RM1 or 2 (large) | | some larger than *T. minimus* | |
| TP2 NE | 14 | *Tamias* | 3Lm1, Lm3, 3Rp4, 3Rm2 (2 large), 2Rm3 | |  | |
| TP2 NE | 14 | *Urocitellus elegans* | right mandible with no teeth | | ID by size of alveoli | |
| TP2 NE | 14 | *Urocitellus elegans* | 5LM1, 2LM2, 2RP3, RP4, 3RM1, 4RM2, 3RM3 | |  | |
| TP2 NE | 14 | *Urocitellus elegans* | 3Lp4, Lm1, 3Lm2, 5Lm3, Rp4, 3Rm1, 5Rm3 | |  | |
| TP2 NE | 14 | *Callospermophilus lateralis* | LP4, RP4, LM2, 2RM2, RM1 or 2 | |  | |
| TP2 NE | 14 | *Callospermophilus lateralis* | Lm2, 4Rm2 | |  | |
| TP2 NE | 14 | *Tamiasciurus hudsonius* | LP4 | |  | |
| TP2 NE | 14 | *Tamiasciurus hudsonius* | left maxilla with M3 | | unworn teeth, need better comparison | |
| TP2 NE | 14 | *Peromyscus* | distal left mandible with i1; medial rt mandible with m1-3; rt mandible with i1, m1-3; rt mandible with i1; left mandible with i1, m1; rt mandible with i1,m1-3; rt mandible with i1 | |
| TP2 NE | 14 | *Peromyscus* | 6LM1, 2LM2, 4RM1, 5RM2, RM3 | |  | |
| TP2 NE | 14 | *Peromyscus* | 3Lm1, 3Lm2, 4Lm3, 4Rm1, 6Rm2, Rm3 | |  | |
| TP2 NE | 14 | *Mustela* | medial right mandible with m1 | | smaller than male *M. erminea* | |
| TP2 NE | 14 | *Mustela* (?) | Lp3 | |  | |
| TP2 NE | 14 | *Martes americana* | Lm1, Lm2, 2Lm3, 2Rm1, Rm2, 3Rm3 | |  | |
|  |  |  |  | |  | |
| TP2 NE | 15 | Anura | humerus or tibia | | frog | |
| TP2 NE | 15 | Passeriformes? | proximal half left ulna | | size of songbird | |
| TP2 NE | 15 | *Aves* | proximal left humerus | |  | |
| TP2 NE | 15 | *Lagopus* | proximal half right tarsometatarus | | large compared to male *Lagopus*, too small for *Dendragapus;* compares well to male *L. lagopus* from Alaska*,* USNM 11/26/10 | |
| TP2 NE | 15 | *Lagopus* | distal right tibiotarsus | | smaller than female *L. lagopus*; male *L. leucurus* likely | |
| TP2 NE | 15 | Chiroptera | right mandible with no teeth | |  | |
| TP2 NE | 15 | *Sorex cinereus* | left mandible with i1, m1-3 | | *S. monticolus* male similar in size, but teeth much more robust; ID confirmed at USNM 11/25/10 | |
| TP2 NE | 15 | *Sorex palustris* | medial right mandible with m1 | | size of female *S. palustris*, perhaps larger | |
| TP2 NE | 15 | *Sorex monticolus* | right mandible with p4-m3 | | size of female, male *S. palustris* has more robust m3 and ascending ramus--not robust in fossil and similar to *S. monticolus* | |
| TP2 NE | 15 | *Sorex monticolus* | proximal half left mandible with m1 | | size of female | |
| TP2 NE | 15 | *Phenacomys* | maxilla with no teeth | |  | |
| TP2 NE | 15 | *Phenacomys* | left mandible with m1-3 | |  | |
| TP2 NE | 15 | *Phenacomys* | 4Lm1, 2Lm2, Lm3, 2Rm1, Rm3 | |  | |
| TP2 NE | 15 | *Phenacomys* | 4LM1, 3RM1, 3RM2 | |  | |
| TP2 NE | 15 | *Phenacomys* | medial left mandible with m1 | |  | |
| TP2 NE | 15 | *Microtus pennsylvanicus* | right mandible with m1-2 | |  | |
| TP2 NE | 15 | *Microtus pennsylvanicus* | maxilla and premaxilla with LI1, RI1, and LM1-M2 | | compares very well in characters, length of diastema, shape of anterior palatine foramina | |
| TP2 NE | 15 | *Microtus pennsylvanicus* | right mandible with m2 | |  | |
| TP2 NE | 15 | *Microtus pennsylvanicus* | maxilla with LM2-M3 | |  | |
| TP2 NE | 15 | *Microtus pennsylvanicus* | left mandible with m1 | |  | |
| TP2 NE | 15 | *Microtus* | right mandible with i1, m2 | |  | |
| TP2 NE | 15 | *Microtus* | 12Lm1, 11Lm2, 7Lm3, 10Rm1, 7Rm2, 11Rm3 | |  | |
| TP2 NE | 15 | *Microtus* | 19LM1, 8LM2, 6LM3, 15RM1, 26RM2, 10RM3 | |  | |
| TP2 NE | 15 | *Lemmiscus curtatus* | left mandible with m1 | |  | |
| TP2 NE | 15 | *Lemmiscus curtatus* | left mandible with m1-2 | | submitted for C14 analysis Nov. 2011 | |
| TP2 NE | 15 | *Lemmiscus curtatus* | left maxilla with M1 | |  | |
| TP2 NE | 15 | *Lemmiscus curtatus* | right mandible with m1-2 | | used for C14 date, 8 March 2012 | |
| TP2 NE | 15 | *Lemmiscus curtatus* | left mandible with i1, m1-2 | | part of i1 and small bone frag removed for DNA, remainder sent for C14 analysis Oct. 2010 | |
| TP2 NE | 15 | *Lemmiscus curtatus* | right mandible with m2 | |  | |
| TP2 NE | 15 | *Lemmiscus curtatus* | 13Lm1, 13Lm2, 4Lm3, 11Rm1, 15Rm2, 5Rm3 | |  | |
| TP2 NE | 15 | *Lemmiscus curtatus* | 7LM1, 2LM2, 7LM3, 5RM1, 6RM2, 9RM3 | |  | |
| TP2 NE | 15 | *Myodes* | right mandible with m1-2 | |  | |
| TP2 NE | 15 | *Myodes* | Lm1 | |  | |
| TP2 NE | 15 | *Myodes* | 2RM2, RM3 | |  | |
| TP2 NE | 15 | Arvicolinae | 4 maxilla; 8 left mandibles with no teeth; 2 left mandibles with i1; 10 right mandibles with no teeth; 3 right mandibles with i1 | |
| TP2 NE | 15 | Cricetidae | Rm2 | | very large compared to *Microtus*, similar in size to Haystack specimens of *Dicrostonyx*, but does not compare well to modern at DNMH | |
| TP2 NE | 15 | *Thomomys* | maxilla and premaxilla with LI1 and RI1; maxilla with no teeth | |  | |
| TP2 NE | 15 | *Thomomys* | left mandible with no teeth | |  | |
| TP2 NE | 15 | *Thomomys* | right mandible with no teeth | |  | |
| TP2 NE | 15 | *Thomomys* | 5Lp4 | |  | |
| TP2 NE | 15 | *Thomomys* | three Rp4 | |  | |
| TP2 NE | 15 | *Thomomys* | three RP4 | |  | |
| TP2 NE | 15 | *Thomomys* | two Lm1 or m2; 1M or m | |  | |
| TP2 NE | 15 | *Thomomys* | RM1 or M2 | |  | |
| TP2 NE | 15 | *Thomomys* | 3LP4 | |  | |
| TP2 NE | 15 | *Ochotona* | left mandible with p4-m3 | |  | |
| TP2 NE | 15 | *Ochotona* | medial left mandible with no teeth | |  | |
| TP2 NE | 15 | *Ochotona* | medial left maxilla with M1 | |  | |
| TP2 NE | 15 | *Ochotona* | LI1 | |  | |
| TP2 NE | 15 | *Ochotona* | Rm1 or m2 | |  | |
| TP2 NE | 15 | *Ochotona* | Rp4 | |  | |
| TP2 NE | 15 | *Ochotona* | four Lm1 or m2 | |  | |
| TP2 NE | 15 | *Ochotona* | two LM3 | |  | |
| TP2 NE | 15 | *Ochotona* | two LM1 or M2 | |  | |
| TP2 NE | 15 | *Ochotona* | LP4 | |  | |
| TP2 NE | 15 | *Ochotona* | LP3 | |  | |
| TP2 NE | 15 | *Lepus townsendii* | proximal left tibia | |  | |
| TP2 NE | 15 | *Lepus townsendii* | two first phalanges | | one sent for C14 dating, 12/27/10 | |
| TP2 NE | 15 | *Lepus americanus* | proximal left tibia; metatarsal missing ends; first phalange | | similar in size to *L. americanus* | |
| TP2 NE | 15 | *Lepus americanus* | two partial lumbar vertebrae | | similar in size to *L. americanus*; one submitted for C14 to CAIS, 26 Dec. 11 | |
| TP2 NE | 15 | *Lepus americanus* | Lp3 | |  | |
| TP2 NE | 15 | *Lepus americanus* | Lm3 | |  | |
| TP2 NE | 15 | *Sylvilagus* | Rp4 | | compares well with *S. nuttallii* in size, shape | |
| TP2 NE | 15 | *Marmota* | LI1 | |  | |
| TP2 NE | 15 | *Marmota* | Lm1 | |  | |
| TP2 NE | 15 | *Marmota* | Rp4 | |  | |
| TP2 NE | 15 | *Erithizon dorsatum* | LM2 | |  | |
| TP2 NE | 15 | *Mustela erminea* | right mandible with m1 | | size of female | |
| TP2 NE | 15 | *Neotoma* | Rm1 | |  | |
| TP2 NE | 15 | *Neotoma* | Rm2 | |  | |
| TP2 NE | 15 | *Neotoma* | three Lm3 | |  | |
| TP2 NE | 15 | *Neotoma* | two Lm2 | |  | |
| TP2 NE | 15 | *Neotoma* | three Lm1 | |  | |
| TP2 NE | 15 | *Neotoma* | three RM3 | |  | |
| TP2 NE | 15 | *Neotoma* | two RM2 | |  | |
| TP2 NE | 15 | *Neotoma* | two LM3 | |  | |
| TP2 NE | 15 | *Neotoma* | LM2 | |  | |
| TP2 NE | 15 | *Neotoma* | LM1; RM1 | |  | |
| TP2 NE | 15 | *Callospermophila lateralis* | medial left mandible with m1-2 | |  | |
| TP2 NE | 15 | *Callospermophila lateralis* | Lm2 | |  | |
| TP2 NE | 15 | *Callospermophilus lateralis* | Lm3 | |  | |
| TP2 NE | 15 | *Callospermophilus lateralis* | RP4 | |  | |
| TP2 NE | 15 | *Callospermophilus lateralis* | LM1 | |  | |
| TP2 NE | 15 | *Callospermophilus lateralis* | Rp4 | |  | |
| TP2 NE | 15 | *Urocitellus elegans* | Lm3 | |  | |
| TP2 NE | 15 | *Urocitellus elegans* | Lm2 | |  | |
| TP2 NE | 15 | *Urocitellus elegans* | two Lm1 | |  | |
| TP2 NE | 15 | *Urocitellus elegans* | two Lp4 | |  | |
| TP2 NE | 15 | *Urocitellus elegans* | three Rm3 | |  | |
| TP2 NE | 15 | *Urocitellus elegans* | Rm2 | |  | |
| TP2 NE | 15 | *Urocitellus elegans* | Rm1 | |  | |
| TP2 NE | 15 | *Urocitellus elegans* | Rp4 | |  | |
| TP2 NE | 15 | *Urocitellus elegans* | RM1 | |  | |
| TP2 NE | 15 | *Urocitellus elegans* | RM2 | |  | |
| TP2 NE | 15 | *Urocitellus elegans* | RP4 | |  | |
| TP2 NE | 15 | *Urocitellus elegans* | two LM3 | |  | |
| TP2 NE | 15 | *Urocitellus elegans* | LM1 or M2 | |  | |
| TP2 NE | 15 | *Urocitellus elegans* | LP3, LP4 | |  | |
| TP2 NE | 15 | *Peromyscus* sp. | right mandible with m1; 2 right mandibles with i1; right mandible with no teeth | |  | |
| TP2 NE | 15 | *Peromyscus* sp. | right medial maxilla with M1-2 | |  | |
| TP2 NE | 15 | *Peromyscus* sp*.* | right mandible with m1-2 | |  | |
| TP2 NE | 15 | *Peromyscus* sp*.* | medial left mandible with m2; left mandible with no teeth; distal left mandible with no teeth | |
| TP2 NE | 15 | *Peromyscus* sp*.* | two RM1, one LM2 | |  | |
| TP2 NE | 15 | *Peromyscus* sp*.* | two Lm1, three Rm1; Lm3 (large) | |  | |
| TP2 NE | 15 | *Tamias* | two Lm3 | |  | |
| TP2 NE | 15 | *Tamiasciurus* | LP4, RM1, RM2 | |  | |
| TP2 NE |  |  |  | |  | |
| TP2 NE | 20 | *Lagopus* | digit 2 phalanx 1; distal left femur | | size in between *Lagopus* and *Dendragapus;* compare well in size to *L. lagopus* male, USNM 623341 | |
| TP2 NE | 20 | *Anas* sp. | distal half left tarsometatarsus | | size of *A. crecca* | |
| TP2 NE | 20 | *Sorex palustris* | left mandible with no teeth | | ID by A. Boehm, confirmed by SDE, larger than female *S. monticolus* | |
| TP2 NE | 20 | *Sorex palustris* | right mandible with no teeth | | ID by A. Boehm, confirmed by SDE, larger than female *S*. *monticolus* | |
| TP2 NE | 20 | *Lemmiscus curtatus* | left maxilla with M1 | |  | |
| TP2 NE | 20 | *Lemmiscus curtatus* | left mandible with i1 and m1 | |  | |
| TP2 NE | 20 | *Lemmiscus curtatus* | three left mandibles with m1-2 | |  | |
| TP2 NE | 20 | *Lemmiscus curtatus* | left mandible with m2 | |  | |
| TP2 NE | 20 | *Lemmiscus curtatus* | two right mandibles with m1-2 | |  | |
| TP2 NE | 20 | *Lemmiscus curtatus* | left mandible with m1 | |  | |
| TP2 NE | 20 | *Lemmiscus curtatus* | right mandible with m2 | |  | |
| TP2 NE | 20 | *Lemmiscus curtatus* | right mandible with m1 | |  | |
| TP2 NE | 20 | *Lemmiscus curtatus* | 13Lm1, 12Rm1, 16Lm2, Lm3, 12Rm2, Rm3 | |  | |
| TP2 NE | 20 | *Lemmiscus curtatus* | 5LM1, 15LM2, 7LM3, 13RM1, 11RM2, 2RM3 | |  | |
| TP2 NE | 20 | *Lemmiscus curtatus* | RM1-2 | |  | |
| TP2 NE | 20 | *Phenacomys* | medial right mandible with m1-2 | |  | |
| TP2 NE | 20 | *Phenacomys* | 2Rm1, Rm2, Rm3 | | large | |
| TP2 NE | 20 | *Phenacomys* | RM2 | |  | |
| TP2 NE | 20 | *Phenacomys* | LM1 | |  | |
| TP2 NE | 20 | *Phenacomys* | LM2 | |  | |
| TP2 NE | 20 | *Phenacomys* | Lm3 | |  | |
| TP2 NE | 20 | *Phenacomys* | 2Lm2 | |  | |
| TP2 NE | 20 | *Phenacomys* | Rm1 | |  | |
| TP2 NE | 20 | *Microtus* | 22Lm1, 23Rm1, Lm2, 3Lm3, 3Rm2, 2Rm3 | |  | |
| TP2 NE | 20 | *Microtus* | 9LM1, 4LM2, LM3, 9RM1, 3LM2, LM3 | |  | |
| TP2 NE | 20 | *Thomomys* | three RP4 | |  | |
| TP2 NE | 20 | *Thomomys* | LP4 | |  | |
| TP2 NE | 20 | *Thomomys* | right mandible with i1 | |  | |
| TP2 NE | 20 | *Thomomys* | distal left mandible with i1 | |  | |
| TP2 NE | 20 | *Thomomys* | two distal left mandibles with no teeth | |  | |
| TP2 NE | 20 | *Ochotona* | medial left mandible with no teeth | |  | |
| TP2 NE | 20 | *Ochotona* | medial left maxilla with no teeth | |  | |
| TP2 NE | 20 | *Ochotona* | Rp3 | |  | |
| TP2 NE | 20 | *Ochotona* | Rm1 or m2 | |  | |
| TP2 NE | 20 | *Ochotona* | three Lm1 or m2 | |  | |
| TP2 NE | 20 | *Ochotona* | RM1 or M2 | |  | |
| TP2 NE | 20 | *Ochotona* | LM1 or M2 | |  | |
| TP2 NE | 20 | *Ochotona* | LI1 | |  | |
| TP2 NE | 20 | *Lepus townsendii* | distal left humerus | |  | |
| TP2 NE | 20 | *Lepus townsendii* | proximal right tibia | |  | |
| TP2 NE | 20 | *Lepus townsendii* | right astralagus | |  | |
| TP2 NE | 20 | *Lepus townsendii* | right auditory bulla | |  | |
| TP2 NE | 20 | *Lepus townsendii* | proximal right radius | |  | |
| TP2 NE | 20 | *Lepus townsendii* | three first phalanges | |  | |
| TP2 NE | 20 | *Lepus townsendii* | proximal half first phalange | |  | |
| TP2 NE | 20 | *Lepus townsendii* | Rm1 or m2 | |  | |
| TP2 NE | 20 | *Lepus townsendii* | Rp3 | |  | |
| TP2 NE | 20 | *Lepus townsendii* | Rm1 | |  | |
| TP2 NE | 20 | *Lepus americanus* | distal right femur | | sent for C14 dating, 12/27/10 | |
| TP2 NE | 20 | *Lepus americanus* | proximal left humerus | | slightly larger than *L. americanus* | |
| TP2 NE | 20 | *Lepus americanus* | second phalange | | slightly larger than *L. americanus* | |
| TP2 NE | 20 | *Lepus americanus* | proximal half of metatarsal | | slightly larger than *L. americanus* | |
| TP2 NE | 20 | *Lepus americanus* | distal half of metatarsal | | slightly larger than *L. americanus* | |
| TP2 NE | 20 | *Urocitellus elegans* | left mandible with p4-m3 | | m3 removed for DNA analysis, 18 July 2010 | |
| TP2 NE | 20 | *Urocitellus elegans* | left mandible with no teeth | |  | |
| TP2 NE | 20 | *Urocitellus elegans* | left maxilla with M1-3 | | M1 used for C14, 19 Oct. 10 | |
| TP2 NE | 20 | *Urocitellus elegans* | right maxilla with no teeth | |  | |
| TP2 NE | 20 | *Urocitellus elegans* | right maxilla with P4-M2 | |  | |
| TP2 NE | 20 | *Urocitellus elegans* | Rm3 | |  | |
| TP2 NE | 20 | *Urocitellus elegans* | three Rm2 | |  | |
| TP2 NE | 20 | *Urocitellus elegans* | five Rm1 | |  | |
| TP2 NE | 20 | *Urocitellus elegans* | Rp4 | |  | |
| TP2 NE | 20 | *Urocitellus elegans* | two Lm1 | |  | |
| TP2 NE | 20 | *Urocitellus elegans* | four RM3 | |  | |
| TP2 NE | 20 | *Urocitellus elegans* | RM1 | |  | |
| TP2 NE | 20 | *Urocitellus elegans* | two RP4 | |  | |
| TP2 NE | 20 | *Urocitellus elegans* | LM3 | |  | |
| TP2 NE | 20 | *Urocitellus elegans* | two LP4 | |  | |
| TP2 NE | 20 | *Marmota* | complete left femur | | submitted for C14 4/19/08 | |
| TP2 NE | 20 | *Marmota* | complete left femur | |  | |
| TP2 NE | 20 | *Marmota* | right femur missing distal epiphysis | |  | |
| TP2 NE | 20 | *Marmota* | two left femora missing epiphyses (juv.) | | one with pathology (?) | |
| TP2 NE | 20 | *Marmota* | right ulna missing ends | |  | |
| TP2 NE | 20 | *Marmota* | medial left ulna | |  | |
| TP2 NE | 20 | *Marmota* | left nasal bone | |  | |
| TP2 NE | 20 | *Marmota* | left I1 | |  | |
| TP2 NE | 20 | *Marmota* | RM2 | |  | |
| TP2 NE | 20 | *Marmota* | RP4 or M1 | |  | |
| TP2 NE | 20 | *Marmota* | LP4 | |  | |
| TP2 NE | 20 | *Marmota* | Lm2 | |  | |
| TP2 NE | 20 | *Marmota* | LP3 | |  | |
| TP2 NE | 20 | *Neotoma* | Rm3 | |  | |
| TP2 NE | 20 | *Neotoma* | Rm2 | |  | |
| TP2 NE | 20 | *Neotoma* | three Rm1 | |  | |
| TP2 NE | 20 | *Neotoma* | three Lm2 | |  | |
| TP2 NE | 20 | *Neotoma* | medial left maxilla with M1 | |  | |
| TP2 NE | 20 | *Neotoma* | two RM2 | |  | |
| TP2 NE | 20 | *Neotoma* | RM1 | |  | |
| TP2 NE | 20 | *Neotoma* | three LM3 | |  | |
| TP2 NE | 20 | *Neotoma* | three LM2 | |  | |
| TP2 NE | 20 | *Neotoma* | three LM1 | |  | |
| TP2 NE | 20 | *Ovis* | right (?) cuneiform--ulnar carpal | |  | |
| TP2 NE | 20 | Artiodactyla | tooth fragment, possibly *Ovis* | |  | |
| TP2 NE | 20 | cf. *Mustela* sp. | Lp3 | | size of male *M. erminea* | |
| TP2 NE | 20 | *Peromyscus* sp. | medial right mandible with m1 | |  | |
| TP2 NE | 20 | *Peromyscus* sp. | medial right mandible with no teeth | |  | |
| TP2 NE | 20 | *Peromyscus* sp. | Lm1, Rm1 | |  | |
| TP2 NE | 20 | *Tamias* cf*. T. minimus* | right mandible with i1 only | | based on small size compared to *T. quadrivittalus*, *T. umbrinus*, and *T. dorsalis* | |
| TP2 NE |  |  |  | |  | |
| TP2 NE |  |  |  | |  | |
| TP2 NE | 21 | *Ovis canadensis* | humeral end right scapula | | top of level; distance from condyle to spine greater in *Ovis* than *Odocoileus* | |
| TP2 NE | 23 | *Falco mexicanus* or *F. peregrinus* | complete right coracoid | | size of female; *F. peregrinus* female varies in size, robustness, but within range of fossil as is female *F. mexicanus*; *F*. *femoralis* is too small, *F. rusticolu*s is too large; USNM comparisons 11/27/10 | |
| TP2 NE | 24 | *Dendragapus obscurus* | distal 1/2 right humerus | |  | |
| TP2 NE | 25 | *Marmota* | Lm1, Rm1, Lm1 (worn), Lm3, two tooth fragments | |  | |
| TP2 NE | 25 | *Dendragapus obscurus* | complete left humerus | | size of male, broken fresh in two halves | |
| TP2 NE | 25 | *Leucosticte* | premaxilla | | compares best with *L. atrata* by breadth at distal nares, narrower than in *L. tephrocotis* | |
| TP2 NE | 25 | *Leucosticte* | distal left ulna | | compares well with USNM specimen | |
| TP2 NE |  |  |  | |  | |
| TP2 NE | 26 | *Sorex monticolus* | right mandible with m1-2 | | size of female, overlaps with male *S. palustris* but ramus is not as high below m2 in *S. monticolus* and fossil plus m2 is more robust in *S. palustris* | |
| TP2 NE | 26 | *Sorex monticolus* | medial right maxilla with P4, M2 | |  | |
| TP2 NE | 26 | *Sorex monticolus* | medial right maxilla with P4 | |  | |
| TP2 NE | 26 | *Sorex monticolus* | left mandible with m1 | |  | |
| TP2 NE | 26 | *Sorex nanus* | right mandible with m1 | | compared to *S. preblei* and *S. hoyi*, the latter is very distinct and more robust ramus; *S. preblei* has more robust condyloid process in distal view; specimen best matches *S. nanus* in size, narrow condyloid process | |
| TP2 NE | 26 | *Sorex monticolus* | RM1 | | size of female *S. monticolus*; male *S. palustris* still larger, USNM 11/2510 | |
| TP2 NE | 26 | *Ochotona* | two medial left mandibles with no teeth | |  | |
| TP2 NE | 26 | *Ochotona* | medial right mandible with m1-2 | |  | |
| TP2 NE | 26 | *Ochotona* | medial right maxilla with M1 | |  | |
| TP2 NE | 26 | *Ochotona* | six Rp4, m1 or m2 | |  | |
| TP2 NE | 26 | *Ochotona* | Rp3 | |  | |
| TP2 NE | 26 | *Ochotona* | Lp4, m1 or m2 | |  | |
| TP2 NE | 26 | *Ochotona* | left maxilla with no teeth | |  | |
| TP2 NE | 26 | *Ochotona* | RI1 | |  | |
| TP2 NE | 26 | *Ochotona* | LI1 | |  | |
| TP2 NE | 26 | *Ochotona* | 10 RM1 or M2 | |  | |
| TP2 NE | 26 | *Ochotona* | six RP4 | |  | |
| TP2 NE | 26 | *Ochotona* | LM3 | |  | |
| TP2 NE | 26 | *Ochotona* | 12 LM1 or M2 | |  | |
| TP2 NE | 26 | *Ochotona* | five LP4 | |  | |
| TP2 NE | 26 | *Lepus townsendii* | RP4 or M1 | | size of *L. townsendii* | |
| TP2 NE | 26 | *Lepus townsendii* | Rp3 (broken) | | size of *L. townsendii* | |
| TP2 NE | 26 | *Lepus townsendii* | distal right tibia | | size of *L. townsendii* | |
| TP2 NE | 26 | *Lepus townsendii* | right calcaneum | | size of *L. townsendii* | |
| TP2 NE | 26 | *Lepus townsendii* | lumbar vertebra | | size of *L. townsendii* | |
| TP2 NE | 26 | *Lepus townsendii* | left astragalus | | size of *L. townsendii* | |
| TP2 NE | 26 | *Lepus townsendii* | proximal left humerus | | size of *L. townsendii* | |
| TP2 NE | 26 | *Lepus townsendii* | proximal end of left tibia | | size of *L. townsendii* | |
| TP2 NE | 26 | *Lepus americanus* | Lm1 | | closer to *L. americanus* than *Sylvilagus;* checked more at UNSM on 24 Nov. 10, appears to be *L. americanus*, female size, not *Sylvilagus* | |
| TP2 NE | 26 | Leporidae | Rp3 | | slightly larger than *S. nuttallii* and *S. audubonii*, but shape more like this genus than *L. americanus* | |
| TP2 NE | 26 | *Lemmiscus curtatus* | three left mandibles with m1 | |  | |
| TP2 NE | 26 | *Lemmiscus curtatus* | right mandible with m1 | |  | |
| TP2 NE | 26 | *Lemmiscus curtatus* | two left mandibles with m1-2 | |  | |
| TP2 NE | 26 | *Lemmiscus curtatus* | left mandible with broken m1 and m2 | |  | |
| TP2 NE | 26 | *Lemmiscus curtatus* | two medial right mandibles with m1-2 | |  | |
| TP2 NE | 26 | *Lemmiscus curtatus* | 31Lm1, 45Lm2, 28Lm3, 43Rm1, 36Rm2, 29Rm3 | |  | |
| TP2 NE | 26 | *Lemmiscus curtatus* | 36LM1, 28LM2, 27LM3, 28RM1, 27RM2, 32RM3 | |  | |
| TP2 NE | 26 | *Microtus longicaudus* | maxilla with LM1 and RM1 | |  | |
| TP2 NE | 26 | *Microtus* | 14Lm1, 11Lm2, 6Lm3, 12Rm1, 4Rm2, 5Rm3 | |  | |
| TP2 NE | 26 | *Microtus* | 17LM1, 4LM2, 10LM3, 16RM1, 2RM2, 5RM3 | |  | |
| TP2 NE | 26 | *Phenacomys* | left mandible with m2 | |  | |
| TP2 NE | 26 | *Phenacomys* | 4Lm1 | |  | |
| TP2 NE | 26 | *Phenacomys* | Rm1 | |  | |
| TP2 NE | 26 | *Phenacomys* | 2Rm3 | |  | |
| TP2 NE | 26 | *Phenacomys* | 3Rm2 | |  | |
| TP2 NE | 26 | *Phenacomys* | Lm3 | |  | |
| TP2 NE | 26 | *Phenacomys* | 2Lm2 | |  | |
| TP2 NE | 26 | *Phenacomys* | RM1, 2RM2, 4RM3 | |  | |
| TP2 NE | 26 | *Phenacomys* | 3LM3 | |  | |
| TP2 NE | 26 | *Phenacomys* | 5LM2 | |  | |
| TP2 NE | 26 | *Neotoma* | right mandible with m1 | |  | |
| TP2 NE | 26 | *Neotoma* | Lm3 | |  | |
| TP2 NE | 26 | *Neotoma* | two Lm2 | |  | |
| TP2 NE | 26 | *Neotoma* | Lm1 | |  | |
| TP2 NE | 26 | *Neotoma* | two LM2 | |  | |
| TP2 NE | 26 | *Neotoma* | three LM1 | |  | |
| TP2 NE | 26 | *Neotoma* | six Rm3 | |  | |
| TP2 NE | 26 | *Neotoma* | two Rm1 | |  | |
| TP2 NE | 26 | *Neotoma* | three RM3 | |  | |
| TP2 NE | 26 | *Neotoma* | three RM1 | |  | |
| TP2 NE | 26 | *Neotoma* | small left maxilla fragment with M3 | |  | |
| TP2 NE | 26 | *Thomomys* | four Rp4 | |  | |
| TP2 NE | 26 | *Thomomys* | five RP4 | |  | |
| TP2 NE | 26 | *Thomomys* | two Lp4 | |  | |
| TP2 NE | 26 | *Thomomys* | Lm3 | |  | |
| TP2 NE | 26 | *Thomomys* | six Lm2 or m3 | |  | |
| TP2 NE | 26 | *Thomomys* | LM3 | |  | |
| TP2 NE | 26 | *Thomomys* | three LM1 or M2 | |  | |
| TP2 NE | 26 | *Thomomys* | two Rm3 | |  | |
| TP2 NE | 26 | *Thomomys* | three Rm1 or m2 | |  | |
| TP2 NE | 26 | *Thomomys* | two RM3 | |  | |
| TP2 NE | 26 | *Thomomys* | five RM1 or M2 | |  | |
| TP2 NE | 26 | *Thomomys* | four LP4 | |  | |
| TP2 NE | 26 | *Thomomys* | complete maxilla with no teeth | |  | |
| TP2 NE | 26 | *Thomomys* | left mandible with no teeth | |  | |
| TP2 NE | 26 | *Marmota* | complete right mandible with i1, p4-m3 | |  | |
| TP2 NE | 26 | *Marmota* | right fragment of postorbital process of skull | |  | |
| TP2 NE | 26 | *Marmota* | right ulna with ends broken | |  | |
| TP2 NE | 26 | *Marmota* | complete right mandible with no teeth | |  | |
| TP2 NE | 26 | *Marmota* | medial left mandible with no teeth | |  | |
| TP2 NE | 26 | *Marmota* | distal left mandible with no teeth | |  | |
| TP2 NE | 26 | *Marmota* | medial right maxilla with no teeth | |  | |
| TP2 NE | 26 | *Marmota* | Rp4 | |  | |
| TP2 NE | 26 | *Marmota* | Rm1 | |  | |
| TP2 NE | 26 | *Marmota* | Rm3 | |  | |
| TP2 NE | 26 | *Marmota* | RI1 | |  | |
| TP2 NE | 26 | *Marmota* | distal Li1 | |  | |
| TP2 NE | 26 | *Marmota* | RM1 or M2 (broken) | |  | |
| TP2 NE | 26 | *Marmota* | two RP4 | |  | |
| TP2 NE | 26 | *Marmota* | LP4 | | size of small female | |
| TP2 NE | 26 | *Marmota* | LM2 | |  | |
| TP2 NE | 26 | *Marmota* | Lm3 | |  | |
| TP2 NE | 26 | *Urocitellus elegans* | right mandible with p4-m2 | | m2 removed for DNA analysis, 18 July 2010 | |
| TP2 NE | 26 | *Urocitellus elegans* | right mandible with no teeth | |  | |
| TP2 NE | 26 | *Urocitellus elegans* | medial left maxilla with M1-3 | |  | |
| TP2 NE | 26 | *Urocitellus elegans* | medial right maxilla with M1-2 | |  | |
| TP2 NE | 26 | *Urocitellus elegans* | right maxilla with no teeth | |  | |
| TP2 NE | 26 | *Urocitellus elegans* | six LM3 | |  | |
| TP2 NE | 26 | *Urocitellus elegans* | 13 LM1 or M2 | |  | |
| TP2 NE | 26 | *Urocitellus elegans* | five LM3 | |  | |
| TP2 NE | 26 | *Urocitellus elegans* | nine RM1 or M2 | |  | |
| TP2 NE | 26 | *Urocitellus elegans* | five RP4 | |  | |
| TP2 NE | 26 | *Urocitellus elegans* | six Lm3 | |  | |
| TP2 NE | 26 | *Urocitellus elegans* | five Lm2 | |  | |
| TP2 NE | 26 | *Urocitellus elegans* | two Lp4 | |  | |
| TP2 NE | 26 | *Urocitellus elegans* | six Rm3 | |  | |
| TP2 NE | 26 | *Urocitellus elegans* | five Rm2 | |  | |
| TP2 NE | 26 | *Urocitellus elegans* | five Rm1 | |  | |
| TP2 NE | 26 | *Urocitellus elegans* | eight Rp4 | |  | |
| TP2 NE | 26 | *Urocitellus elegans* | four RP3 | |  | |
| TP2 NE | 26 | *Urocitellus elegans* | LP3 | |  | |
| TP2 NE | 26 | *Urocitellus elegans* | two RM3 | |  | |
| TP2 NE | 26 | *Callospermophilus lateralis* | LM3 | |  | |
| TP2 NE | 26 | *Callospermophilus lateralis* | LM1 or M2 | |  | |
| TP2 NE | 26 | *Callospermophilus lateralis* | Lm1 | |  | |
| TP2 NE | 26 | *Callospermophilus lateralis* | Rm1 | |  | |
| TP2 NE | 26 | *Callospermophilus lateralis* | RP3 | |  | |
| TP2 NE | 26 | *Callospermophilus lateralis* | RP4 | |  | |
| TP2 NE | 26 | *Callospermophilus lateralis* | Rp4 | |  | |
| TP2 NE | 26 | *Tamias* | right mandible with p4 | |  | |
| TP2 NE | 26 | *Tamias* | LM2, two RM1 | |  | |
| TP2 NE | 26 | *Tamias* | Rm1, Rm2, Lm1 | |  | |
| TP2 NE | 26 | *Ursus sp.* | phalanx I | | compared to *U. arctos* USNM 283629 from WY, sex (?), and fossil is slightly larger | |
| TP2 NE | 26 | *Ovis* | right (?) carpal--lunate or intermediate carpal | |  | |
| TP2 NE | 26 | *Mustela* sp. | left P4 | | size of female *M. frenata* | |
| TP2 NE | 26 | *Peromyscus sp.* | medial right mandible with m1-2 | | worn teeth, size of maniculatus | |
| TP2 NE | 26 | *Peromyscus sp.* | three RM1 | |  | |
| TP2 NE | 26 | *Peromyscus sp.* | two RM2 | |  | |
| TP2 NE | 26 | *Peromyscus sp.* | two Rm1, two Rm2, two Lm1, one Lm2 | |  | |
| TP2 NE |  |  |  | |  | |
| TP2 NE | 27 | *Marmota* | medial right mandible with p4, m2-3; left medial mandible with p4-m2; medial right mandible with m1; Rm1; left maxilla with partial P4 | |
| TP2 NE | 27 | *Urocitellus elegans* | left mandible with p4-m1, m3 | |  | |
| TP2 NE | 27 | *Brachyprotoma* sp. | right mandible (imm) with c1-m1; distal 1/2 with top of m1 fragmented | | compares well with other mandibles from the cave | |
| TP2 NE | 27 | *Artiodactyla* | proximal epiphysis of phalanx I | |  | |
| TP2 NE | 27 | *Lagopus leucurus* | right tarsometatarsus with proximal end damaged | | smaller than female *L. lagopus* | |
| TP2 NE | 27 | *Lagopus leucurus* | distal right humerus | | compares well in size with USNM 289726 | |
| TP2 NE | 27 | Falconiformes | ungual phalange missing proximal end | | size of *Buteo* | |
| TP2 NE | 27 | *Sorex palustris* | right mandible with m1, m3 | | large and robust, good comparison | |
| TP2 NE | 27 | *Sorex preblei* | left mandible with i1, c1-m1 | | very similar in size and characters, more robust teeth than *S. nanus*; smaller than *S. cinereus, S. merriami, S. vagrans, and S. monticolus* | |
| TP2 NE | 27 | *Sorex preblei* | right mandible with p4-m3 | | same as above | |
| TP2 NE | 28 | *Marmota* | RI1, Li1, 2Lm2, Lm1, Rm3, Lm1 or 2, 2RP4 or M, LM1, RM1, LM3, LM3 (juv.); 2 medial left mandibles with no teeth; proximal right femur (part used for C14 analysis) | |
| TP2 NE | 28 | *Urocitellus elegans* | right medial mandible with p4-m3, medial left mandible with m1-2, medial right maxilla with M1 | |
| TP2 NE | 29 | *Marmota* | Li1, Rp4, 2Rm1, Rm1 or 2, LM1, 2Rm2, 3RM or P fragments, RM3, right mandible with no teeth | |
| TP2 NE | 29 | *Urocitellus elegans* | left mandible with I, Rp4, m1-2; right medial mandible with m2-3, right medial mandible with m3; left medial maxilla with no teeth | |
| TP2 NE | 29 | *Mustela frenata (?)* | medial left mandible with p4, m1 | |  | |
| TP2 NE | 29 | *Sorex* sp. | proximal half left mandible with no teeth | | *S. palustris* male larger, more robust ascending ramus and condyloid process; *S. merriami* and *S. monticolus* both close in size and characters | |
| TP2 NE | 29 | *Sorex palustris* | medial left mandible with m1-2 | | large and robust, good comparison | |
| TP2 NE | 30 | *Sorex palustris* | medial right mandible with m1 | | teeth more robust than female *S. monticolus* | |
| TP2 NE | 30 | *Sorex palustris* | medial left mandible with p4-m2 | | teeth more robust than female *S. monticolus* | |
| TP2 NE | 30 | *Sorex palustris* | medial left mandible with m1-3 | | m3 bigger than in female *S. monticolus* | |
| TP2 NE | 30 | *Sorex sp.* | medial left mandible with m2 | | small, size of *S. cinereus* and *S. nanus* | |
| TP2 NE | 30 | *Sorex sp.* | RP4 fragment | |  | |
| TP2 NE | 30 | *Phenacomys* | right maxilla with M1 | |  | |
| TP2 NE | 30 | *Phenacomys* | eight Rm1 | |  | |
| TP2 NE | 30 | *Phenacomys* | two Rm2 | |  | |
| TP2 NE | 30 | *Phenacomys* | 2Lm1, 3Lm3, 3Rm3 | |  | |
| TP2 NE | 30 | *Phenacomys* | Lm2 | |  | |
| TP2 NE | 30 | *Phenacomys* | two Lm3 | |  | |
| TP2 NE | 30 | *Phenacomys* | 2LM1, LM2, RM1, RM2, 3RM3 | |  | |
| TP2 NE | 30 | *Phenacomys* | five RM2 | |  | |
| TP2 NE | 30 | *Phenacomys* | three RM1 | |  | |
| TP2 NE | 30 | *Phenacomys* | four LM3 | |  | |
| TP2 NE | 30 | *Phenacomys* | two LM2 | |  | |
| TP2 NE | 30 | *Phenacomys* | LM1 | |  | |
| TP2 NE | 30 | *Lemmiscus curtatus* | three left mandibles with m1-2 | |  | |
| TP2 NE | 30 | *Lemmiscus curtatus* | seven left mandibles with m1 | |  | |
| TP2 NE | 30 | *Lemmiscus curtatus* | three right mandibles with m1 | |  | |
| TP2 NE | 30 | *Lemmiscus curtatus* | right mandible with m1-2 | |  | |
| TP2 NE | 30 | *Lemmiscus curtatus* | left mandible with m2 | |  | |
| TP2 NE | 30 | *Lemmiscus curtatus* | left maxilla with M1 | |  | |
| TP2 NE | 30 | *Lemmiscus curtatus* | right maxilla with M1-2 | |  | |
| TP2 NE | 30 | *Lemmiscus curtatus* | 46Lm1, 58Lm2, 52Lm3, 39Rm1, 50Rm2, 32Rm3 | |  | |
| TP2 NE | 30 | *Lemmiscus curtatus* | 33LM1, 52LM2, 31LM3, 29RM1, 50RM2, 40RM3 | |  | |
| TP2 NE | 30 | *Microtus pennsylvanicus* | two right mandibles with m1-2 | |  | |
| TP2 NE | 30 | *Microtus pennsylvanicus* | right maxilla with M1 | |  | |
| TP2 NE | 30 | *Microtus* | 4Lm1, 4Lm2, 2Rm1, 2Rm2, Rm3 | |  | |
| TP2 NE | 30 | *Microtus* | 8LM1, 8LM2, 4LM3, 11RM1, 3RM2, 6RM3 | |  | |
| TP2 NE | 30 | *Neotoma* | two Rm3 | |  | |
| TP2 NE | 30 | *Neotoma* | four Rm2 | |  | |
| TP2 NE | 30 | *Neotoma* | six Rm1 | |  | |
| TP2 NE | 30 | *Neotoma* | two Lm3 | |  | |
| TP2 NE | 30 | *Neotoma* | eight Lm2 | |  | |
| TP2 NE | 30 | *Neotoma* | eight Lm1 | |  | |
| TP2 NE | 30 | *Neotoma* | four LM3 | |  | |
| TP2 NE | 30 | *Neotoma* | nine RM2 | |  | |
| TP2 NE | 30 | *Neotoma* | seven LM1 | |  | |
| TP2 NE | 30 | *Neotoma* | three RM1 | |  | |
| TP2 NE | 30 | *Neotoma* | RM3 | |  | |
| TP2 NE | 30 | *Neotoma* | six LM2 | |  | |
| TP2 NE | 30 | *Urocitellus elegans* | right maxilla with M1-3 | |  | |
| TP2 NE | 30 | *Urocitellus elegans* | right maxilla with M2-3 | |  | |
| TP2 NE | 30 | *Urocitellus elegans* | medial left maxilla with M1 | |  | |
| TP2 NE | 30 | *Urocitellus elegans* | six Rm1 or 2 | |  | |
| TP2 NE | 30 | *Urocitellus elegans* | four Rp4 | |  | |
| TP2 NE | 30 | *Urocitellus elegans* | medial right mandible with m3 | |  | |
| TP2 NE | 30 | *Urocitellus elegans* | two LM3 | |  | |
| TP2 NE | 30 | *Urocitellus elegans* | four Lp4 | |  | |
| TP2 NE | 30 | *Urocitellus elegans* | five left m1 or 2 | |  | |
| TP2 NE | 30 | *Urocitellus elegans* | left m3 | |  | |
| TP2 NE | 30 | *Urocitellus elegans* | four LP4 | |  | |
| TP2 NE | 30 | *Urocitellus elegans* | three LM1 or 2 | |  | |
| TP2 NE | 30 | *Urocitellus elegans* | four RP4 | |  | |
| TP2 NE | 30 | *Urocitellus elegans* | five RM1 or 2 | |  | |
| TP2 NE | 30 | *Urocitellus elegans* | three RM3 | |  | |
| TP2 NE | 30 | *Urocitellus elegans* | four RP3 | |  | |
| TP2 NE | 30 | *Urocitellus elegans* | two LP3 | |  | |
| TP2 NE | 30 | *Callospermophilus lateralis* | three LM1 | |  | |
| TP2 NE | 30 | *Callospermophilus lateralis* | three Lm1 | |  | |
| TP2 NE | 30 | *Callospermophilus lateralis* | two Rp4 | |  | |
| TP2 NE | 30 | *Callospermophila lateralis* | Rm1 in small mandible fragment | |  | |
| TP2 NE | 30 | *Callospermophilus lateralis* | Rm1 | |  | |
| TP2 NE | 30 | *Tamias* | RM1, two Lm1, | |  | |
| TP2 NE | 30 | *Marmota* | right mandible with i1, m1-2 | | piece of proximal end removed for C14, 19 Oct. 10 | |
| TP2 NE | 30 | *Marmota* | two upper incisor fragments | |  | |
| TP2 NE | 30 | *Marmota* | left maxilla with no teeth | |  | |
| TP2 NE | 30 | *Marmota* | two medial right maxillae fragments with no teeth | |  | |
| TP2 NE | 30 | *Marmota* | medial left maxilla fragment with no teeth | |  | |
| TP2 NE | 30 | *Marmota* | two Lm3 | |  | |
| TP2 NE | 30 | *Marmota* | Rm3 | |  | |
| TP2 NE | 30 | *Marmota* | Rp4 | |  | |
| TP2 NE | 30 | *Marmota* | five RM1 or 2 | |  | |
| TP2 NE | 30 | *Marmota* | two RM3 | |  | |
| TP2 NE | 30 | *Marmota* | LM1 or 2 | |  | |
| TP2 NE | 30 | *Marmota* | two LP4 | | small, one may be deciduous | |
| TP2 NE | 30 | *Thomomys* | Lp4 | |  | |
| TP2 NE | 30 | *Thomomys* | five left lower cheek teeth | |  | |
| TP2 NE | 30 | *Thomomys* | four Rp4 | |  | |
| TP2 NE | 30 | *Thomomys* | five right lower cheek teeth | |  | |
| TP2 NE | 30 | *Thomomys* | LP4 | |  | |
| TP2 NE | 30 | *Thomomys* | two right upper cheek teeth | |  | |
| TP2 NE | 30 | *Thomomys* | medial right mandible with no teeth | |  | |
| TP2 NE | 30 | *Thomomys* | medial left mandible with no teeth | |  | |
| TP2 NE | 30 | *Thomomys* | LM1 | |  | |
| TP2 NE | 30 | *Ochotona* | two medial right mandibles with m2 | |  | |
| TP2 NE | 30 | *Ochotona* | two medial right mandibles with no teeth | |  | |
| TP2 NE | 30 | *Ochotona* | four medial left mandibles with no teeth | |  | |
| TP2 NE | 30 | *Ochotona* | medial left maxilla with no teeth | |  | |
| TP2 NE | 30 | *Ochotona* | Rp3 | |  | |
| TP2 NE | 30 | *Ochotona* | four Rm1 or 2 | |  | |
| TP2 NE | 30 | *Ochotona* | Lm1 or 2 | |  | |
| TP2 NE | 30 | *Ochotona* | four LM3 | |  | |
| TP2 NE | 30 | *Ochotona* | five LM1 or 2 | |  | |
| TP2 NE | 30 | *Ochotona* | six LP4 | |  | |
| TP2 NE | 30 | *Ochotona* | LP3 | |  | |
| TP2 NE | 30 | *Ochotona* | two LI1 | |  | |
| TP2 NE | 30 | *Ochotona* | nine RM1 or 2 | |  | |
| TP2 NE | 30 | *Ochotona* | five RP4 | |  | |
| TP2 NE | 30 | *Ochotona* | medial left maxilla fragment with P4 | |  | |
| TP2 NE | 30 | *Lepus americanus* | Rp3 | | size of *L. americanus*, too small and shaped unlike *L. townsendii* | |
| TP2 NE | 30 | *Lepus americanus* | LM2 | | size of *L. americanus*; *L. townsendii* much larger | |
| TP2 NE | 30 | *Lepus americanus* | RM1 | | compares well in size | |
| TP2 NE | 30 | *Lepus* | RM1 or 2 | | size of *L. americanus* but too broken for ID | |
| TP2 NE | 30 | *Lepus americanus* | LP3, LP4 | | compares well in size | |
| TP2 NE | 30 | *Lepus townsendii* | LP or M | | fragmented, but large and compares well in size | |
| TP2 NE | 30 | *Lepus townsendii* | distal half metapodia | | size of *L. townsendii* by robustness of shaft; sent for C14 dating, 12/27/10 | |
| TP2 NE | 30 | *Lepus townsendii* | RP3 or 4 | | compares well in size | |
| TP2 NE | 30 | *Equus* | Li1 (juv.) | |  | |
| TP2 NE | 30 | *Mustela erminea* | right mandible with m1 | | compares well to small female, *M. nivalis* is much smaller | |
| TP2 NE | 30 | *Mustela erminea* | medial left mandible with p3-4 | | compares well to small female | |
| TP2 NE | 30 | *Mustela erminea* | Rp4 | | compares well to small female | |
| TP2 NE | 30 | *Mustela erminea* | LP4 | | compares well to small female | |
| TP2 NE | 30 | *Mustela erminea* | RP4 (partial) | | compares well to small female | |
| TP2 NE | 30 | *Mustela* sp. | right mandible with p3, m1 (broken) | | *M. erminea* or *M. frenata*; female *M. frenata* is close in size | |
| TP2 NE | 30 | *Peromyscus* sp. | right medial maxilla with M1-3 | |  | |
| TP2 NE | 30 | *Peromyscus* sp. | medial left mandible with no teeth | |  | |
| TP2 NE | 30 | *Peromyscus* sp. | two LM1, three RM1 | |  | |
| TP2 NE | 30 | *Peromyscus* sp. | Lm1, Lm2, Rm2 | |  | |
| TP2 NE |  |  |  | |  | |
| TP2 NE | 31 | *Marmota* | RM1, LM1, M or P fragment | |  | |
| TP2 NE | 31 | *Urocitellus* or *Callospermophilus* | medial mandible with no teeth, 2Rm1, Lm1 or 2 | |  | |
| TP2 NE | 31 | *Urocitellus elegans* | right maxilla with P4-M3 | |  | |
| TP2 NE | 31 | *Mustela ermina* (?) | left mandible with p4-m2 | |  | |
| TP2 NE | 32 | *Marmota* | 3RM1 or 2, LP4, RP4, RM1, RP or M fragment, 3 P3, Rm2, right and left medial maxillae fragments with no teeth | |
| TP2 NE | 32 | *Urocitellus* or *Callospermophilus* | Lm3, Rm3 | |  | |
| TP2 NE | 32 | *Martes americana* (?) | medial right mandible with p4, m1 (2 pieces); Rm1 (juv.) | |  | |
| TP2 NE | 32 | *Mustela frenata* (?) | RP4 | |  | |
| TP2 NE | 32 | Mustelidae | Rm1 | |  | |
| TP2 NE | 32 | *Lagopus* | distal left tarsometatarsus | | compares well with male *L. leucurus* | |
| TP2 NE | 32 | *Lagopus* | distal right carpometacarpus | |  | |
| TP2 NE | 33 | *Marmota* | Rm1, Rm2, LM3, P or M fragment, LP4, RM1, 2Rm2, Rm1, P3 | |  | |
| TP2 NE | 33 | *Urocitellus elegans* | medial left mandible with m1-3, right maxilla with M2, maxilla fragment with no teeth | |
| TP2 NE | 33 | *Martes americana* (?) | LP4 | |  | |
| TP2 NE | 33 | *Mustela frenata* (?) | distal right mandible with p2-4, RP4, LP4 | |  | |
| TP2 NE | 34 | *Marmota* | Ri1, Rm1 or 2, 2Lm1 or 2, 3LM1 or 2, 2P or M fragments; medial mandible with RM2 | |
| TP2 NE | 34 | *Urocitellus* or *Callospermophilus* | medial left mandible with m2, medial left mandible with p4-m1, 11 cheek teeth, upper and lower | |
| TP2 NE | 34 | *Mustela frenata* (?) | RP4 | |  | |
| TP2 NE | 35 | *Sorex* cf*. S. monticolus* | left mandible with no teeth | | large, close to *S. palustris* in size, but shape of ascending ramus seems to match *S. monticolus* best | |
| TP2 NE | 35 | *Sorex* sp*.* | Rm1 in dentary fragment | | size of *S. monticolus* or S*. cinereus* | |
| TP2 NE | 35 | *Sorex monticolus* | medial right mandible with m3 | | size of female *S. monticolus*; checked male *S. palustris* at USNM 11/25/10 and it is still larger than this specimen | |
| TP2 NE | 35 | *Sorex* sp*.* | Lm1 | | size of female *S. monticolus* or male *S. palustris*; checked both at USNM 11/25/10 and can't distinguish either species by size or characters from fossil | |
| TP2 NE | 35 | *Sorex* sp*.* | medial left mandible with m1-3 | | size of S*. cinereus* or *S. preblei*, but teeth damaged slightly and can't ID | |
| TP2 NE | 35 | *Sorex palustris* | medial left maxilla with M1 | |  | |
| TP2 NE | 35 | *Sorex palustris* | left maxilla with P4-M1 | | distinctly larger than female *S. monticolus* | |
| TP2 NE | 35 | *Ochotona princeps* | medial right mandible with m1-3 | |  | |
| TP2 NE | 35 | *Ochotona princeps* | distal right mandible with no teeth | |  | |
| TP2 NE | 35 | *Ochotona princeps* | medial right mandible with no teeth | |  | |
| TP2 NE | 35 | *Ochotona princeps* | two left maxillae with M2 | |  | |
| TP2 NE | 35 | *Ochotona princeps* | LI1 | |  | |
| TP2 NE | 35 | *Ochotona princeps* | seven left P4 | |  | |
| TP2 NE | 35 | *Ochotona princeps* | five right P4 | |  | |
| TP2 NE | 35 | *Ochotona princeps* | 16 LM1 or 2 | |  | |
| TP2 NE | 35 | *Ochotona princeps* | 3 LM3 | |  | |
| TP2 NE | 35 | *Ochotona princeps* | 7 right M1 or 2 | |  | |
| TP2 NE | 35 | *Ochotona princeps* | 3 RM3 | |  | |
| TP2 NE | 35 | *Ochotona princeps* | two RI1 | |  | |
| TP2 NE | 35 | *Ochotona princeps* | two distal left tibiae | |  | |
| TP2 NE | 35 | *Ochotona princeps* | left m or p | |  | |
| TP2 NE | 35 | *Ochotona princeps* | right m or p | |  | |
| TP2 NE | 35 | *Ochotona princeps* | Rp4 | |  | |
| TP2 NE | 35 | *Ochotona princeps* | Lm1 or 2 | |  | |
| TP2 NE | 35 | *Lepus townsendii* | RP2 | | compared to *L. americanus* and *Sylvilagus*; size of *L. townsendii* | |
| TP2 NE | 35 | *Lepus townsendii* | Lm1 | |  | |
| TP2 NE | 35 | *Lepus americanus* | RM1 | | slightly larger than *Sylvilagus*, compares well to *L. americanus* | |
| TP2 NE | 35 | *Lepus americanus* | RP2 | | smaller than *L. townsendii*, narrower than *Sylvilagus,* appears most like a small *L. americanus* | |
| TP2 NE | 35 | Leporidae | RM1 (broken); proximal 1st phalange, proximal metatarsal | | size of *L. americanus* or *Sylvilagus* | |
| TP2 NE | 35 | *Thomomys* | right mandible with no teeth | |  | |
| TP2 NE | 35 | *Thomomys* | two distal left mandibles with no teeth | |  | |
| TP2 NE | 35 | *Thomomys* | two right P4 | | larger enamel island flattened in occlusal view, similar to *T. talpoides*; more rounded in *T. bottae* | |
| TP2 NE | 35 | *Thomomys* | left P4 | | larger enamel island flattened in occlusal view, similar to *T. talpoides*; more rounded in *T. bottae* | |
| TP2 NE | 35 | *Thomomys* | two left p4 | |  | |
| TP2 NE | 35 | *Thomomys* | three right p4 | |  | |
| TP2 NE | 35 | *Thomomys* | two right upper cheek teeth | |  | |
| TP2 NE | 35 | *Thomomys* | three left lower cheek teeth | |  | |
| TP2 NE | 35 | *Thomomys* | two right lower cheek teeth | |  | |
| TP2 NE | 35 | *Microtus pennsylvanicus* | left mandible with m2 | |  | |
| TP2 NE | 35 | *Microtus pennsylvanicus* | left m1 | |  | |
| TP2 NE | 35 | *Microtus pennsylvanicus* | right M1 | |  | |
| TP2 NE | 35 | *Microtus pennsylvanicus* | two right m1 | |  | |
| TP2 NE | 35 | *Microtus longicaudus* | right mandible with m1 | |  | |
| TP2 NE | 35 | *Microtus* | 15Lm1, 19Lm2, 4Lm3, 10Rm1, 15Rm2, 7Rm3 | |  | |
| TP2 NE | 35 | *Microtus* | 29LM1, 9LM2, LM3, 19RM1, 15RM2, RM3 | |  | |
| TP2 NE | 35 | *Lemmiscus curtatus* | four right mandibles with m1-2 | |  | |
| TP2 NE | 35 | *Lemmiscus curtatus* | five left mandibles with m1 | |  | |
| TP2 NE | 35 | *Lemmiscus curtatus* | three left m1 | |  | |
| TP2 NE | 35 | *Lemmiscus curtatus* | 11LM1, 45LM2, 34LM3, 16RM1, 29RM2, 31RM3 | |  | |
| TP2 NE | 35 | *Lemmiscus curtatus* | 31Lm1, 43Lm2, 38Lm3, 41Rm1, 47Rm2, 28Rm3 | |  | |
| TP2 NE | 35 | *Lemmiscus curtatus* | left maxilla with M1-2 | |  | |
| TP2 NE | 35 | *Lemmiscus curtatus* | left m2 | |  | |
| TP2 NE | 35 | *Phenacomys intermedius* | left mandible with m1-2 | | confirmed at USNM 11/25/10 | |
| TP2 NE | 35 | *Phenacomys intermedius* | three left M2 | | confirmed at USNM 11/25/10 | |
| TP2 NE | 35 | *Phenacomys intermedius* | three right M2 | | confirmed at USNM 11/25/10 | |
| TP2 NE | 35 | *Phenacomys intermedius* | three right M1 | | some large; confirmed at USNM 11/25/10, size similar to Gunnison specimens | |
| TP2 NE | 35 | *Phenacomys intermedius* | two left M3 | | confirmed at USNM 11/25/10 | |
| TP2 NE | 35 | *Phenacomys intermedius* | 5LM1, LM2, RM1, RM2, RM3 | | some large; confirmed at USNM 11/25/10, size similar to Gunnison specimens | |
| TP2 NE | 35 | *Phenacomys intermedius* | 3Lm1, Lm2, 2Lm3, Rm2, 5Rm3 | | confirmed at USNM 11/25/10 | |
| TP2 NE | 35 | *Phenacomys intermedius* | two right m1 | | confirmed at USNM 11/25/10 | |
| TP2 NE | 35 | *Phenacomys intermedius* | two right m3 | | confirmed at USNM 11/25/10 | |
| TP2 NE | 35 | *Phenacomys intermedius* | two left m2 | | confirmed at USNM 11/25/10 | |
| TP2 NE | 35 | *Phenacomys intermedius* | Lm3 | | confirmed at USNM 11/25/10 | |
| TP2 NE | 35 | *Neotoma* | left mandible with m1-3 | |  | |
| TP2 NE | 35 | *Neotoma* | three Lm1 | |  | |
| TP2 NE | 35 | *Neotoma* | Lm3 | |  | |
| TP2 NE | 35 | *Neotoma* | four Rm1 | |  | |
| TP2 NE | 35 | *Neotoma* | two Rm2 | |  | |
| TP2 NE | 35 | *Neotoma* | two Rm3 | |  | |
| TP2 NE | 35 | *Neotoma* | four RM1 | |  | |
| TP2 NE | 35 | *Neotoma* | three LM1 | |  | |
| TP2 NE | 35 | *Neotoma* | three LM2 | |  | |
| TP2 NE | 35 | *Neotoma* | five RM2 | |  | |
| TP2 NE | 35 | *Neotoma* | three LM3 | |  | |
| TP2 NE | 35 | *Neotoma* | five RM3 | |  | |
| TP2 NE | 35 | *Marmota* | two RM3 | | both pulled for isotope analysis | |
| TP2 NE | 35 | *Marmota* | LM3 | | pulled for isotope analysis | |
| TP2 NE | 35 | *Marmota* | right premaxilla with no teeth | |  | |
| TP2 NE | 35 | *Marmota* | left premaxilla with no teeth | |  | |
| TP2 NE | 35 | *Marmota* | Ri1 | |  | |
| TP2 NE | 35 | *Marmota* | medial right maxilla | |  | |
| TP2 NE | 35 | *Marmota* | two right upper molar fragments | |  | |
| TP2 NE | 35 | *Marmota* | RP4 | |  | |
| TP2 NE | 35 | *Marmota* | LM1 | |  | |
| TP2 NE | 35 | *Marmota* | RP3 | |  | |
| TP2 NE | 35 | *Marmota* | left astragalus | |  | |
| TP2 NE | 35 | *Urocitellus elegans* | left maxilla with no teeth | |  | |
| TP2 NE | 35 | *Urocitellus elegans* | medial right mandible with m2-3 | |  | |
| TP2 NE | 35 | *Urocitellus elegans* | four Rm3 | |  | |
| TP2 NE | 35 | *Urocitellus elegans* | two Lm3 | |  | |
| TP2 NE | 35 | *Urocitellus elegans* | three LM3 | |  | |
| TP2 NE | 35 | *Urocitellus elegans* | three RM3 | |  | |
| TP2 NE | 35 | *Urocitellus elegans* | six LP4 | |  | |
| TP2 NE | 35 | *Urocitellus elegans* | ten LM1 or 2 | |  | |
| TP2 NE | 35 | *Urocitellus elegans* | six RP4 | |  | |
| TP2 NE | 35 | *Urocitellus elegans* | nine RM1 or 2 | |  | |
| TP2 NE | 35 | *Urocitellus elegans* | two RP3 | |  | |
| TP2 NE | 35 | *Urocitellus elegans* | two Lp4 | |  | |
| TP2 NE | 35 | *Urocitellus elegans* | five Lm1 or 2 | |  | |
| TP2 NE | 35 | *Urocitellus elegans* | four Rp4 | |  | |
| TP2 NE | 35 | *Urocitellus elegans* | nine Rm1 or 2 | |  | |
| TP2 NE | 35 | *Callospermophilus lateralis* | two LP4 | | close in size and shape | |
| TP2 NE | 35 | *Callospermophilus lateralis* | RP4 | |  | |
| TP2 NE | 35 | *Callospermophilus lateralis* | RM1 or 2 | | good comparison, similar size and shape | |
| TP2 NE | 35 | *Callospermophilus lateralis* | Lm1 or 2 | |  | |
| TP2 NE | 35 | *Callospermophilus lateralis* | Rm3 | |  | |
| TP2 NE | 35 | Artiodactyla | distal metapodia, half of epiphysis | |  | |
| TP2 NE | 35 | *Peromyscus* sp. | three RM1, two Lm1, one Rm1 | |  | |
| TP2 NE | 35 | *Tamias* cf*. T. minimus* | three RM1, one RM3, LP4, LM1, Rm1 | |  | |
| TP2 NE | 35 | *Zapus* cf. *Z. princeps* | RM2 | | shape more like this species than *Z. hudsonius* | |
| TP2 NE |  |  |  | |  | |
| TP2 NE | 36 | *Martes americana* | RM1 | | compares well with DMNH specimens | |
| TP2 NE | 36 | cf*. Ovis canadensis* | right humerus missing proximal epiphysis (imm) | | distal condylar fossa deep and round as in *Ovis*, elongated in *Odocoileus* | |
| TP2 NE | 37 | *Lagopus* cf*. L. leucurus* | proximal right tibiotarsus | | smaller than female *L. lagopus* | |
| TP2 NE | 39 | *Lagopus* cf. *L. leucurus* | distal right tarsometatarsus | | smaller than female *L. lagopus* | |
| TP2 NE | 39 | *Lagopus* cf*. L. leucurus* | distal left tibiotarsus | | smaller than female *L. lagopus* | |
| TP2 NE | 39 | *Lagopus* cf*. L. leucurus* | left carpometacarpus missing distal end | | smaller than female *L. lagopus* | |
| TP2 NE | 39 | *Lagopus* cf*. L. leucurus* | premaxilla | | smaller than female *L. lagopus*; only one specimen of *L. leucurus* at USNM, imm, no sex, much smaller than fossil | |
| TP2 NE |  |  |  | |  | |
| TP2 NE | 40 | Serpentes | vertebra | |  | |
| TP2 NE | 40 | *Dendragapus obscurus* | distal left humerus | |  | |
| TP2 NE | 40 | Passeriformes | left carpometacarpus, distal left humerus; proximal half tarsometatarus, tibiotarsus; proximal right tarsometatarus |
| TP2 NE | 40 | *Sorex monticolus* | left mandible with m1-3, missing distal end | | distinctly larger than *S. nanus*, *S. preblei*; smaller than *S. palustris*; similar in size to *S. cinereus* but molars distinctly broader as in *S. monticolus*; confirmed at USNM 11/25/10, also compared to *S. merriami* (teeth broader) and *S. vagrans* (teeth narrower). | |
| TP2 NE | 40 | *Sorex cinereus* | distal right mandible with i1 and m1 | | similar in size to *S. monticolus*, but i1 is relatively narrower and longer and m1 less robust as in *S. cinereus*; confirmed at USNM 11/25/10, also compared to *S. merriami* and *S. vagrans* | |
| TP2 NE | 40 | *Sorex* sp. | right i1 and I1 | |  | |
| TP2 NE | 40 | *Neotoma cinerea* | left maxilla with M1 | |  | |
| TP2 NE | 40 | *Neotoma cinerea* | right M2 | |  | |
| TP2 NE | 40 | *Neotoma cinerea* | left m1 | |  | |
| TP2 NE | 40 | *Neotoma cinerea* | three left m2 | |  | |
| TP2 NE | 40 | *Neotoma cinerea* | right M1 | |  | |
| TP2 NE | 40 | *Neotoma cinerea* | right m1 | |  | |
| TP2 NE | 40 | *Neotoma cinerea* | three right m2 | |  | |
| TP2 NE | 40 | *Neotoma cinerea* | two left M2 | |  | |
| TP2 NE | 40 | *Neotoma cinerea* | right M3 | |  | |
| TP2 NE | 40 | *Neotoma cinerea* | two left M1 | |  | |
| TP2 NE | 40 | *Neotoma cinerea* | three left m3 | |  | |
| TP2 NE | 40 | *Neotoma cinerea* | three right m3 | |  | |
| TP2 NE | 40 | *Marmota flaviventris* | medial left maxilla with no teeth | |  | |
| TP2 NE | 40 | *Marmota flaviventris* | medial left mandible with no teeth | |  | |
| TP2 NE | 40 | *Marmota flaviventris* | left M1 | |  | |
| TP2 NE | 40 | *Marmota flaviventris* | right M1 | |  | |
| TP2 NE | 40 | *Marmota flaviventris* | two left p4 | | both pulled for isotope analysis | |
| TP2 NE | 40 | *Marmota flaviventris* | left m1 | |  | |
| TP2 NE | 40 | *Marmota flaviventris* | medial left ulna | |  | |
| TP2 NE | 40 | *Urocitellus elegans* | right maxilla with P4-M3 | |  | |
| TP2 NE | 40 | *Urocitellus elegans* | two right p4 | |  | |
| TP2 NE | 40 | *Urocitellus elegans* | left p4 | |  | |
| TP2 NE | 40 | *Urocitellus elegans* | two right m3 | |  | |
| TP2 NE | 40 | *Urocitellus elegans* | left m3 | |  | |
| TP2 NE | 40 | *Urocitellus elegans* | five left P4 | |  | |
| TP2 NE | 40 | *Urocitellus elegans* | right P3 | |  | |
| TP2 NE | 40 | *Urocitellus elegans* | four right P4 | |  | |
| TP2 NE | 40 | *Urocitellus elegans* | two right M3 | |  | |
| TP2 NE | 40 | *Urocitellus elegans* | six right m1 or m2 | |  | |
| TP2 NE | 40 | *Urocitellus elegans* | four left m1 or m2 | |  | |
| TP2 NE | 40 | *Thomomys* | medial right mandible fragment | |  | |
| TP2 NE | 40 | *Thomomys* | eight lower cheek teeth | | small, most similar to *T. talpoides* | |
| TP2 NE | 40 | *Thomomys* | right P4 | |  | |
| TP2 NE | 40 | *Thomomys* | left P4 | |  | |
| TP2 NE | 40 | *Thomomys* | three left p4 | | occlusal surface more flattened, prox to dist, as in *T. talpoides*; more rounded in *T. bottae* | |
| TP2 NE | 40 | *Ochotona princeps* | medial left mandible with m2-3 | |  | |
| TP2 NE | 40 | *Ochotona princeps* | four left P4 | |  | |
| TP2 NE | 40 | *Ochotona princeps* | three right P4 | |  | |
| TP2 NE | 40 | *Ochotona princeps* | nine left M1 or 2 | |  | |
| TP2 NE | 40 | *Ochotona princeps* | three right M1 or 2 | |  | |
| TP2 NE | 40 | *Ochotona princeps* | left p4 | |  | |
| TP2 NE | 40 | *Ochotona princeps* | left M3 | |  | |
| TP2 NE | 40 | *Ochotona princeps* | right M3 | |  | |
| TP2 NE | 40 | *Ochotona princeps* | right incisor | |  | |
| TP2 NE | 40 | *Lepus americanus* | medial left mandible with m1-2 | | larger than female *Sylvilagus nuttallii* | |
| TP2 NE | 40 | *Lepus americanus* | distal right humerus | | slightly larger than 1 male *L. americanus* specimen, distinctly larger than female *Sylvilagus nuttallii* | |
| TP2 NE | 40 | *Lepus americanus* | proximal right scapula | | slightly larger than 1 male *L. americanus* specimen, distinctly larger than female *Sylvilagus nuttallii* | |
| TP2 NE | 40 | *Lemmiscus curtatus* | three left mandibles with m1-2 | |  | |
| TP2 NE | 40 | *Lemmiscus curtatus* | three right mandibles with m1-2 | |  | |
| TP2 NE | 40 | *Lemmiscus curtatus* | two right mandibles with m1 | |  | |
| TP2 NE | 40 | *Lemmiscus curtatus* | left M1 | |  | |
| TP2 NE | 40 | *Lemmiscus curtatus* | 35Lm1, 35Lm2, 22Lm3, 27Rm1, 25Rm2, 24Rm3 | |  | |
| TP2 NE | 40 | *Lemmiscus curtatus* | 10LM1, 28LM2, 29LM3, 9RM1, 19RM2, 27RM3 | |  | |
| TP2 NE | 40 | *Microtus montanus* | LM1 | | close to *M. longicaudus* as well, but enamel islands shape most like *M. montanus*, USNM 11/25/10 | |
| TP2 NE | 40 | *Microtus pennsylvannicus* | Lm1 | | small, but enamel islands narrow and long, similar to female specimen at USNM 11/25/10 | |
| TP2 NE | 40 | *Microtus pennsylvannicus* | right m1 | | confirmed at USNM 11/25/10 by large size (length 3.0 mm) compared to *M. longicaudus* (length 2.7 mm), larger islands with sharp angles on edges | |
| TP2 NE | 40 | *Microtus pennsylvannicus* | two left M1 | | confirmed at USNM 11/25/10 | |
| TP2 NE | 40 | *Microtus* | 12Lm1, 17Lm2, 3Lm3, 10Rm1, 17Rm2, 4Rm3 | |  | |
| TP2 NE | 40 | *Microtus* | 31LM1, 15LM2, 6LM3, 31RM1, 18RM2, 3RM3 | |  | |
| TP2 NE | 40 | *Phenacomys* | LM1, RM1 | | confirmed at USNM 11/25/10 | |
| TP2 NE | 40 | *Phenacomys* | right M2 | | confirmed at USNM 11/25/10 | |
| TP2 NE | 40 | *Phenacomys* | left M2 | | confirmed at USNM 11/25/10 | |
| TP2 NE | 40 | *Phenacomys* | left M3 | | closest to this species, but still not perfect match, fossil a bit larger; compares well with female USNM 485645 from Gothic, coll. 2 July 1971, same size and angles to tooth | |
| TP2 NE | 40 | *Phenacomys* | Lm1, Rm1, Lm1 or 2 | | fragment; confirmed at USNM 11/25/10 | |
| TP2 NE | 40 | *Phenacomys* | Lm3 | | fragment; confirmed at USNM 11/25/10 | |
| TP2 NE | 40 | *Ursus americanus* | RI3 | |  | |
| TP2 NE | 40 | *Mustela* cf. *M. frenata* | medial left mandible with p4, m1 | | compares well in size to female *M. frenata* | |
| TP2 NE | 40 | *Brachyprotoma* | RM1 | | compares well with DMNH 11014 from Porcupine Cave | |
| TP2 NE | 40 | *Permomyscus* sp. | right mandible with no teeth | |  | |
| TP2 NE | 40 | *Permomyscus* sp. | left mandible with i1 only | |  | |
| TP2 NE | 40 | *Permomyscus* sp. | medial left mandible with no teeth | |  | |
| TP2 NE | 40 | *Permomyscus* sp. | LM1, RM1 | |  | |
| TP2 NE | 40 | *Permomyscus* sp. | two Rm1, three Rm2, one Rm3 | |  | |
| TP2 NE | 40 | *Permomyscus* sp. | four Lm1, two Lm2 | |  | |
| TP2 NE | 40 | *Tamias* cf. *T. minimus* | LM1 | | smaller than most *T. minimus*, unworn deciduous tooth? | |
| TP2 NE Ext + TP1 | 31 | *Ochotona* | left mandible with m1-2 | |  | |
| TP2 NE Ext + TP1 | 31 | *Mustela erminea* | proximal half left mandible with p4-m1 | | very small | |
| TP2 NE Ext + TP1 | 31 | *Lemmiscus curtatus* | medial left mandible with m1-2; medial right mandible with m1-2; medial right mandible with m1 |
| TP2 NE Ext + TP1 | 31 | *Marmota* (?) | RM1, LM1 (worn | |  | |
| TP2 NE Ext + TP1 | 31 | *Thomomys* | distal left mandible with no teeth | |  | |
| TP2 NE Ext + TP1 | 31 | *Neotoma* | 2RM2; Rm2 (?) | |  | |
| TP2 NE Ext + TP1 | 31 | *Urocitellus* or *Callospermophilus* | left maxilla with P4-M3; medial mandible fragment; 2 lower and 1 upper cheek teeth | |
| TP2 NE Ext + TP1 | 32 | *Lagopus* sp. | distal left tarsometatarsus | | larger, more robust than *L. leucurus* | |
| TP2 Marmot burrow | 18 | *Lagopus leucurus* | left tarsometatarsus mising proximal end | |  | |
| TP2 Marmot burrow | 18 | *Lagopus* sp*.* | distal left tibiotarsus | | larger than *L. leucurus* | |
| TP2 Mixed with NE Ext | 25 | *Urocitellus elegans* | left mandible with p4-m3; medial left mandible with no teeth; right mandible with no teeth; right mandible fragment with m1; Lm3; right mandible with no teeth; right maxilla with P3-M3; right maxilla with M1 | |
| TP2 Mixed with NE Ext | 25 | *Microtus* cf*. M. longicaudus* | 4 right and 4 left mandibles with m1-m2 | |  | |
| TP2 Mixed with NE Ext | 25 | *Thomomys* | distal half left mandible with no teeth | |  | |
| TP2 Mixed with NE Ext | 25 | *Neotoma* | 2 left maxilla fragments with M1 | |  | |
| TP2 Mixed with NE Ext | 25 | *Ochotona* | right mandible with no teeth; right mandible with m1-2 | |  | |

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Supplementary Table 2: Signature Cave Fossil Identifications from Selected Levels, 2009 and 2011 Excavations** | | |
| **Level TP1** | **Taxon** | **Element** | **Notes** |
| 0 | *Castor canadensis* | right mandible with i1, p4-m3 |  |
| 16-21 | *Sorex palustris* | left mandible with p4-m2 | large |
|  |  |  |  |
| 6 | *Vulpes vulpes* | LP4, M1, M2 | compares well to *V. v. macroura* |
| 17 | *Sorex palustris* | right mandible with i1, c1-m3 | large, good comparison |
| 17 | *Sorex nanus* | medial left mandible with m1-3 | good comparison |
|  |  |  |  |
| 22 | *Sorex palustris* | right mandible with p4-m1, m3 | large and robust |
| 22 | *Sorex palustris* | right mandible with m1-3 | good match for size and characters |
| 22 | *Sorex palustris* | left maxilla with P4-M2 | good match for size and characters |
| 22 | *Sorex* sp. | left maxilla with U1-M3 | closest to *S. cinereus* in size, teeth worn |
| 23 | *Sorex monticolus* | left mandible with i1, m1-2 | good comparison |
| 23 | *Sorex* sp. | Ri1 |  |
| 24 | *Sorex cinereus* | left mandible with i1, p4-m3 | narrow long ramus as in *S. cinereus* |
| 24 | *Sorex cinereus* | medial left mandible with m1 | same as above |
| 24 | *Sorex palustris* | right mandible with i1, c1-m3 | size and robust teeth are good match |
| 24 | *Sorex palustris* | right mandible with i1-m1 | same as above |
| 24 | *Sorex monticolus* | medial right mandible with m1-3 | good size comparison |
| 26 | *Sorex palustris* | left mandible with i1-m3 |  |
| 26 | *Sorex merriami* | left mandible with i1, p4-m3 | good match in robustness, length |
| 26 | *Sorex merriami* | left mandible with p4-m3 | same as above |
| 27 | *Sorex palustris* | proximal left mandible with m2-3 | compares well |
| 27 | *Sorex monticolus* | left mandible with i1, p4-m3 |  |
| 27 | *Sorex monticolus* | right mandible with i1, m1-2 |  |
| 27 | *Sorex palustris* | right mandible with i1-m3 |  |
| 27 | *Sorex palustris* | medial right mandible with m1, m3 |  |
| 31 | *Vulpes vulpes* | Lm1 | compares well to *V. v. macroura* |
| 31 | *Sorex cinereus* | right mandible with i1, p4-m2 | good match for size and characters |
| 31 | *Sorex nanus* | medial right mandible with m1-3 | good comparison |
|  |  |  |  |
| 33 | Odocoileus | Rp3 | very worn |
| 33 | *Sorex palustris* | left mandible with i1, p4-m3 | large, good match with female |
| 33 | *Sorex nanus* | left mandible with m1-3 | teeth match well, not robust as in *S. preblei* |
| 33 | *Sorex nanus* | left mandible with i1, m1-3 | good match |
| 33 | *Sorex hoyi* | right mandible with p4-m3 | good match in length of ramus, size of teeth, specimen is unworn and is similar to female specimen USNM 348059 from Gunnison |
| 33 | *Sorex* sp. | right maxilla with U3-4 | small, close to *S. nanus* or *S. hoyi* |
|  |  |  |  |
| 35 | *Sorex cinereus* | proximal half right mandible with m1-3 | good comparison |
|  |  |  |  |
| 34 | Serpentes | 2 vertebrae |  |
| 34 | *Sorex merriami* | left mandible with i1, p4-m3 | short, as in *S. monticolus* compared to *S. palustris*; teeth slightly more rubust than *S. monticolus*, shorter than male *S. palustris*; compares well with male *S. merriami* |
| 34 | *Sorex monticolus* | RM1 | good match for female in size, male *S. palustris* a bit larger, more robust |
| 34 | *Sorex cinereus* | left mandible with i1, p3-m3 | proximal end missing, size and length a good match for this species |
| 34 | *Sorex cinereus* | left mandible with m1-3 | missing distal end, size and length a good match for this species |
| 34 | *Sorex hoyi* | left mandible with i1, p4-m3 | very short and robust, shorter with more robust teeth than *S. cinereus, S. vagrans*, *S. nanus* and *S. preblei*; p4 still erupting, smaller than *S. merriami*; good comparison with male *S. hoyi* |
| 34 | *Sorex palustris* | medial left maxilla with M1-2 | large, good match with female and larger than female *S. monticolus* |
| 34 | *Lepus americanus* | left mandible with p3-m1 | missing proximal end, good match of teeth but no *Sylvilagus* available |
| 34 | *Lepus americanus* | distal right tibia |  |
| 34 | *Lepus americanus* | cervical vertebra |  |
| 34 | *Lepus americanus* | left auditory bulla |  |
| 34 | *Lepus americanus* | 1st phalanx |  |
| 34 | *Lepus americanus* | two proximal metapodia |  |
| 34 | *Lepus americanus* | Lp3 |  |
| 34 | *Lepus americanus* | LP2 |  |
| 34 | *Lepus americanus* | LM2 |  |
| 34 | *Lepus americanus* | two RM2 |  |
| 34 | *Lepus americanus* | RP2 |  |
| 34 | *Lepus americanus* | LP4 or M1 |  |
| 34 | *Lepus americanus* | left molar or premolar broken |  |
| 34 | *Lepus americanus* | Lm3 |  |
| 34 | *Sylvilagus* sp*.* | LM2, LP3 |  |
| 34 | *Sylvilagus* sp*.* | RM2 |  |
| 34 | *Sylvilagus* sp*.* | LM2 |  |
| 34 | *Ochotona* | RM1 or 2 |  |
| 34 | *Ochotona* | lower cheek tooth fragment |  |
| 34 | *Ochotona* | Rm1 or 2 |  |
| 34 | *Thomomys* | distal left mandible with no teeth |  |
| 34 | *Thomomys* | distal right mandible with no teeth |  |
| 34 | *Thomomys* | two LP4 |  |
| 34 | *Thomomys* | RP4 |  |
| 34 | *Thomomys* | Rp4 |  |
| 34 | *Thomomys* | Rm1 or 2 |  |
| 34 | *Callospermophilus lateralis* | two Lm1 |  |
| 34 | *Tamiasciurus hudsonicus* | RM1 | size of female |
| 34 | *Tamias* | LM2, RP4 |  |
| 34 | *Marmota* | left tibia and fibula |  |
| 34 | *Marmota* | right astragalus | used for DNA extraction, 24 May 2011 |
| 34 | *Microtus montanus* | Lm1 |  |
| 34 | *Microtus montanus* | LM1 |  |
| 34 | *Microtus pennsylvanicus* | Lm1 |  |
| 34 | *Phenacomys* | LM1 |  |
| 34 | *Phenacomys* | medial right mandible with m1 |  |
| 34 | *Phenacomys* | LM2 |  |
| 34 | *Phenacomys* | LM3 |  |
| 34 | *Clethrionomys gapperi* | RM2 | good match, distinct from other voles |
| 34 | cf*. Clethrionomys gapperi* | Lm1 | very worn, but probably this species |
| 34 | *Clethrionomys gapperi* | left mandible with i1, m1 |  |
| 34 | *Clethrionomys gapperi* | LM2, Lm1, Rm3, two Rm1 |  |
| 34 | *Peromyscus* | LM1, Lm1, Rm1, Lm2 |  |
| 34 | *Zapus princeps* | LM1, Rm1 |  |
| 34 | *Neotoma* | medial right mandible with m1 |  |
| 34 | *Neotoma* | Rm3 |  |
| 34 | *Neotoma* | two Rm2 | used for DNA extraction, 24 May 2011 |
| 34 | *Neotoma* | two Rm1 |  |
| 34 | *Neotoma* | three Lm2 |  |
| 34 | *Neotoma* | four Lm1 |  |
| 34 | *Neotoma* | RM3 |  |
| 34 | *Neotoma* | three RM1 |  |
| 34 | *Neotoma* | LM3 |  |
| 34 | *Neotoma* | LM2 |  |
| 34 | *Neotoma* | LM1 |  |
| 34 | *Mustela* sp*.* | left mandible with p2-m2 | size of female *M. frenata* or male *M. erminea* |
| 34 | Artiodactyla (?) | pelvis (?) fragment |  |
| 34 | *Erethizon dorsatum* | RM1 or 2 (broken) |  |
| 34 | *Martes americana* | RP4 |  |
|  |  |  |  |
| 30 | *Lepus americanus* | right mandible with p4-m2 | p4 removed for C14 date, 19 Oct. 2010 |
| 30 | *Lepus americanus* | right innominate |  |
| 30 | *Lepus americanus* | premaxilla with R and L incisors (4) |  |
| 30 | *Lepus americanus* | two L and three RP4 or M1 |  |
| 30 | *Lepus americanus* | LM2 |  |
| 30 | *Lepus americanus* | Lp4 or m1, Lm1, two Rp4 or m1, Rm1 |  |
| 30 | *Lepus americanus* | Lm3 |  |
| 30 | *Lepus* (?) | Rm3 | smaller than *L. americanus*, but not *Sylvilagus* |
| 30 | *Lepus* (?) | RP2 | smaller than *L. americanus*, but not *Sylvilagus* |
| 30 | *Lepus americanus* | proximal end of metatarsal, first phalange | similar in size, larger and more robust than *Sylvilagus* |
| 30 | *Sylvilagus* | first phalange, metatarsal with ends missing | good size match |
| 30 | Leporidae | first phalange and metatarsal (juv.) | *Sylvilagus* or *Lepus americanus* |
| 30 | Leporidae | RP4 or M1 | definitely not *Ochotona* which has double wide teeth |
| 30 | *Ochotona* | LM1 or 2, two LM3, RM3 |  |
| 30 | *Ochotona* | Rp3 |  |
| 30 | *Thomomys* | two LP4, three LM1 or 2, RM3 |  |
| 30 | *Thomomys* | maxilla with no teeth |  |
| 30 | *Thomomys* | left mandible with no teeth |  |
| 30 | *Thomomys* | four Lm1 or 2, two Rm1 or 2 |  |
| 30 | *Marmota* | RM1, RM1 or 2 | both broken, RM1 used for DNA, SIA, and C14 19 Oct. 10 |
| 30 | *Marmota* | LM2 |  |
| 30 | *Myodes* | 5Rm1, 2Rm2, Rm3 | one has very angular edges on tooth, but very similar to USNM 181420 |
| 30 | *Myodes* | 2Lm1, 3Lm2, Lm3 | angular edges on tooth, but very similar to USNM 181420 |
| 30 | *Myodes* | RM1, RM3 | angular edges on tooth, but very similar to USNM 181420 |
| 30 | *Myodes* | 2LM1, LM2 |  |
| 30 | *Myodes* | distal rt mandible with i1, m1 |  |
| 30 | *Phenacomys* | RM1, RM2, 2RM3, 4LM1, 4LM2 | confirmed at USNM 11/25/10 |
| 30 | *Phenacomys* | 2Rm1, 2Rm2, Rm3, 2Lm1, Lm3 | confirmed at USNM 11/25/10; Rm1 fragmented |
| 30 | *Phenacomys* | left mandible with m1-2 | confirmed at USNM 11/25/10 |
| 30 | *Phenacomys* (?) | RM2 and LM2 | rooted teeth, unlike all specimens but similar cusps |
| 30 | *Microtus pennsylvanicus* | left mandble with i1, m3 |  |
| 30 | *Microtus pennsylvanicus* | four Lm1, five Rm1 |  |
| 30 | *Microtus montanus* | RM3 |  |
| 30 | *Microtus* | 2Lm1, Lm3, Rm2, 3Rm1 |  |
| 30 | *Microtus* | 13RM1, 11LM1, 3RM2, 3RM3, 2LM2, 4LM3 |  |
| 30 | *Vulpes vulpes* | Lc1 | compares well to *V. v. macroura* |
| 30 | *Martes americana* | right maxilla fragment with P3-4 |  |
| 30 | *Neotoma* | 5RM1, 3R and 1LM2, 4LM3 |  |
| 30 | *Neotoma* | 2Rm1, 2Rm2, 3Rm3, 1Lm1, 5Lm2, 4Lm3 |  |
| 30 | *Neotoma* | 2 molar fragments |  |
| 30 | *Callospermophilus lateralis* | 2Lm1, Rm2 |  |
| 30 | *Callospermophilus lateralis* (?) | Rp4 | could be milk tooth, smaller than adult specimens |
| 30 | *Callospermophilus lateralis* (?) | Lp4 | smaller than adult specimens compared |
| 30 | *Callospermophilus lateralis* (?) | Rm2 | large, blocky, not a perfect match but not *U. elegans* |
| 30 | *Tamias* sp. | RM3 |  |
| 30 | *Tamias* sp*.* | LM1or 2 | not good match for *T. minimus* |
| 30 | *Tamias* sp*.* | LM1 or 2 | compares well to *T. minimus* |
| 30 | *Tamias* sp*.* | Lm2, Rm1 or 2 |  |
| 30 | *Sorex monticolus* | left mandible with p4-m3 | good match in size and characters, *S. palustris* is slightly longer, *S. cinereus* smaller |
| 30 | *Sorex* sp. | medial left mandible with m1-2 | either *S. monticolus* or *S. palustris* |
| 30 | *Peromyscus* sp. | distal left mandible with i1- m1 | probably *P. maniculatus* |
| 30 | *Peromyscus* sp. | right mandible with no teeth |  |
| 30 | *Peromyscus* sp*.* | 2RM1, RM2, LM3 |  |
|  |  |  |  |
| 25 | *Sorex palustris* | left mandible with i1, m1-3 | compares well to female |
| 25 | *Sorex merriami* | medial left mandible with m1-3 | good comparison to USNM 498396 female |
| 25 | *Sorex monticolus* | medial right mandible with m2-3 | compares well in size and teeth |
| 25 | *Sorex* sp. | RP4 | size near *S. monticolus* |
| 25 | *Marmota* | LP4, LM1 or 2 |  |
| 25 | *Neotoma* | left mandible with i1 |  |
| 25 | *Neotoma* | rt mandible with m1-3 |  |
| 25 | *Neotoma* | rt maxilla fragment with M1 |  |
| 25 | *Neotoma* | distal half right mandible with m1-2 |  |
| 25 | *Neotoma* | rt maxilla fragment with no teeth |  |
| 25 | *Neotoma* | 1Rm1, 3Rm2, 3Rm3, 4Lm2, 2Lm3 |  |
| 25 | *Neotoma* | 3RM1, 2RM2, 2RM3, 3LM1, 6LM2, 4LM3 |  |
| 25 | *Phenacomys* | left mandible with i1, m1-2 |  |
| 25 | *Phenacomys* | RM1 |  |
| 25 | *Myodes* | left mandible fragment with m1 |  |
| 25 | *Myodes* | left mandible with i1, m1-2 |  |
| 25 | *Myodes* | left mandible fragment with m2 |  |
| 25 | *Myodes* | right mandible with m1-3 |  |
| 25 | *Myodes* | left maxilla with M2-3 |  |
| 25 | *Myodes* | left maxilla frag with M2 |  |
| 25 | *Myodes* | 3Rm2, Rm3 |  |
| 25 | *Myodes* | Rm1 |  |
| 25 | *Myodes* | LM2, 2RM2, LM3 |  |
| 25 | *Microtus* | 8RM1, 6RM2, 5RM3, 11LM1, 2LM2, 13LM3 |  |
| 25 | *Microtus* | 9Lm1, 10Lm2, 4Lm3, 10Rm1, 5Rm2, Rm3 |  |
| 25 | *Peromyscus* | left maxilla fragment with M1 |  |
| 25 | *Peromyscus* | medial left mandible with m1-2 |  |
| 25 | *Peromyscus* | left maxilla with M1-3 |  |
| 25 | *Callospermophilus lateralis* | 2RM3, LP4, 2LM1, LM2 |  |
| 25 | *Callospermophilus lateralis* | Rp4, Rm1 |  |
| 25 | *Tamias* | RM3 |  |
| 25 | *Tamias* | Rm1 |  |
| 25 | *Zapus princeps* | LM2 |  |
| 25 | *Mustela* | Lp4 |  |
| 25 | *Thomomys talpoides* | 2LP4 |  |
| 25 | *Thomomys talpoides* | 3Lp4, 2Rp4 |  |
| 25 | *Thomomys talpoides* | 6Lm1 or 2, 6Rm1 or 2, 3LM1 or 2 |  |
| 25 | *Ochotona princeps* | Lp4 |  |
| 25 | *Sylvilagus* | LM1, LM2, RP2, RM1 or 2 |  |
| 25 | *Sylvilagus* | Lp3, Lm3 |  |
| 25 | *Sylvilagus* | left proximal femur (juv.), medial rt innominate, 1 phalange |
| 25 | *Lepus americanus* | LM1 |  |
| 25 | *Lepus americanus* | medial left innominate, proximal left ulna, left astragalus |
| 25 | *Lepus americanus* | proximal metatarsal, 3 phalanges |  |
| 25 | Leporidae | distal left tibia |  |
|  |  |  |  |
| 20 | *Sorex palustris* | medial left mandible with p4-m3 |  |
| 20 | *Lepus americanus* | left radius missing distal end, 2 rt humeral end scapulae |
| 20 | *Lepus americanus* | left astragalus, distal end of metatarsal |  |
| 20 | *Lepus americanus* | LM1, LM2 |  |
| 20 | *Lepus townsendii* | Lp4 |  |
| 20 | *Sylvilagus* | lumbar vertebra |  |
| 20 | *Sylvilagus* | RP2, RP3, RP4 |  |
| 20 | *Ochotona* | Rp3 |  |
| 20 | *Leporidae* | RM1, Lm? |  |
| 20 | *Marmota* | left premaxilla with I1 | bone sent for C14, 12/27/10, incisor saved |
| 20 | *Marmota* | right humerus, sacrum, left nasal |  |
| 20 | *Marmota* | Li1 |  |
| 20 | *Neotoma* | RM1, 3RM2, 2RM3, 2LM1, LM2, 4LM3 |  |
| 20 | *Neotoma* | Rm1, 2Rm2, Rm3, Lm1, Lm2, Lm3 |  |
| 20 | *Thomomy talpoides* | left mandible with p4-m2 |  |
| 20 | *Thomomy talpoides* | rt mandible with p4-m1 |  |
| 20 | *Thomomy talpoides* | 2LP4, 2LM, RM, 4Lm, 7Rm |  |
| 20 | *Callospermophilus lateralis* | LP4, 2RP4, 3RM1 or 2 |  |
| 20 | *Peromyscus* | Lm1 |  |
| 20 | *Peromyscus* | RM1 |  |
| 20 | *Peromyscus* | Lm2 |  |
| 20 | *Tamias* | LM1, LM1 or 2, RM1 or 2 |  |
| 20 | *Microtus* | skull with no teeth, maxilla with no teeth, left mandible with no teeth, distal rt mandible with no teeth |
| 20 | *Microtus* | rt mandible with i1-m1, m3 |  |
| 20 | *Microtus* | rt maxilla with M3 |  |
| 20 | *Microtus* | rt mandible with m2 |  |
| 20 | *Microtus* | 5Rm1, 4Rm2, 3Rm3, 5Lm1, 3Lm2, 2Lm3 |  |
| 20 | *Microtus* | 5RM1, 4RM2, 3RM3, 6LM1, 3LM2, 4LM3 |  |
| 20 | *Myodes* | 2Lm1, Rm1 | one Lm1 is large |
| 20 | *Mustela frenata* | medial right mandible with m1-2 |  |
| 20 | *Mustela* sp. | LC1 |  |
|  |  |  |  |
| 15 | *Buteo jamaicensis* (?) | left tibiotarsus missing ends | need to compare for ID confirmation |
| 15 | *Sylvilagus* | Rp3 |  |
| 15 | *Sylvilagus* | LM1 or 2 |  |
| 15 | *Sylvilagus* | RP3 |  |
| 15 | *Lepus americanus* | Lp4 or m |  |
| 15 | *Lepus americanus* | two metatarsals |  |
| 15 | *Lepus americanus* | proximal left ulna | sent for C14 date 12/27/10 |
| 15 | *Ochotona* | Lm1 or 2 |  |
| 15 | *Neotoma* | partial left maxilla with M3 |  |
| 15 | *Neotoma* | Lm2, Rm3 |  |
| 15 | *Neotoma* | RM1, LM2 |  |
| 15 | *Marmota* | RM3 (juv) | deciduous tooth |
| 15 | *Marmota* | Lm3 |  |
| 15 | *Myodes gapperi* | right mandible with i1, m1-3 | i1 used for C14, 19 Oct. 10 |
| 15 | *Tamias* | right mandible with m2-3 |  |
| 15 | *Tamias* | Lm1, Rm1 |  |
| 15 | *Tamias* | RP4, RM2 |  |
| 15 | *Callospermophilus lateralis* | LM3 |  |
| 15 | *Callospermophilus lateralis* | LM1 | deciduous tooth |
| 15 | *Peromyscus* | RM1 |  |
| 15 | *Thomomys* | LP4, RM |  |
|  |  |  |  |
| 10 | *Lepus americanus* | distal rt tibia |  |
| 10 | *Sylvilagus* | 2LM |  |
| 10 | *Marmota* | left maxilla with P4-M3 |  |
| 10 | *Microtus pennsylvanicus* | rt mandible with i1, m1-3 |  |
| 10 | *Microtus* | rt mandible with m1 |  |
| 10 | *Neotoma* | RM3 |  |
| 10 | *Phenacomys* | left maxilla with M1 |  |
| 10 | *Mustela* | medial left mandible with m1 | smaller than *M. erminea*, probably *M. nivalis* |
|  |  |  |  |
| 5 | *Sylvilagus* | Lm (broken) |  |
| 5 | *Thomomys* | distal left mandible |  |
| 5 | *Thomomys* | R?p4 (juv.) |  |
| 5 | *Microtus longicaudus* | right mandible with m1-2 | mandible used for C14, 19 Oct. 10, teeth saved |
| 5 | *Neotoma* | Rm1 | removed for aDNA analysis, 12/16/12 |
| 5 | *Neotoma* | Lm1, Rm2 |  |
| 5 | *Neotoma* | RM2 |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  | **Supplementary Table 3: Signature Cave Fossil Identifications 2011 Excavations** | | | | |
| **Unit** | **Level** | **Taxon** | | **Element** | | **Notes** |
| Rm 2 | Surface | *Bos* or *Bison* | | 1st phalanx | | Compared both: neither quite right in muscle scars, size is correct. |
| Rm 4 | Surface | *Marmota flaviventris* | | Left humerus | |  |
| Rm 4 Surface | *Lepus americanus* | | Lumbar vertebra | | One distal tip broken off | |
| Rm 4 Surface | *Lepus americanus* | | Left medial femur | |  | |
| Rm 4 Surface | *Lepus americanus* | | Right proximal 5th metatarsal | |  | |
| Rm 4 Surface | Artiodactyl | | Right medial scapula | | Extreme distal gnawing | |
| Rm 4 Surface | Artiodactyl | | Left medial mandible p3-m1 (Juvenile) | | p4 is 3-lobed | |
| Rm 4 Surface | Artiodactyl | | Left medial innominate-juv. frag of acetabulum | |  | |
| Rm 4 Surface | Artiodactyl | | Distal metapodia condyle | |  | |
| Rm 4 Surface | *Neotoma* | | Skull with Left I1 + M1-3, Right I1 + M1-3 | |  | |
| Rm 4 Surface | *Neotoma* | | Medial maxilla fragment with Left M1 | |  | |
| Rm 4 Surface | *Microtus* | | Skull with Left M1-3, Right M1-2 | |  | |
| Crawlway to Rm 4 Surface | *Marmota flaviventris* | | (2x) skulls with no teeth | |  | |
| Crawlway to Rm 4 Surface | Artiodactyl | | (3x) lumbar and (2x) thoracic vertebrae | |  | |
| Crawlway to Rm 4 Surface | *Bos* | | Right distal mandible with p2-4, m1 (juvenile) | | *Bos*-has cingulum, *Bison* juv. differs- no cingulum | |
| Crawlway to Rm 4 Surface | *Canis latrans* | | Left mandible with no teeth | |  | |
| Rm 3 Surface | *Bos* | | Right proximal radius | |  | |
| Rm 3 Surface | Artiodactyl | | Sacrum fragment | |  | |
| Rm 3 Surface | *Lepus americanus* | | Right femur missing distal end | |  | |
| Rm 3 Surface | Large mammal | | Ribs and shards | |  | |
| Rm 3 Surface | Large mammal | | Medial shafts | | Rodent incisor gnaw marks (probably artiodactyl bones?) | |
|  | **2011 Excavations** | |  | |  | |
| **Level (TP 2)** |  | |  | |  | |
|  | *Marmota flaviventris* | | Left complete femur (adult) | | Small teeth marks | |
| 1 | *Marmota flaviventris* | | Right proximal half of femur (juvenile) | | Small teeth marks | |
| 1 | *Marmota flaviventris* | | Complete maxilla with no teeth (adult) | |  | |
| 1 | *Marmota flaviventris* | | Left medial ulna | |  | |
| 1 | *Marmota flaviventris* | | Left m1 or m2 or m3 | | very worn | |
| 1 | *Marmota flaviventris* | | Right m1 | |  | |
| 1 | *Lepus americanus* | | Right calcaneum | |  | |
| 1 | *Lepus americanus* | | Right astragalus | |  | |
| 1 | *Lepus americanus* | | Left medial mandible fragment with p3-4 | |  | |
| 1 | *Lepus americanus* | | Lumbar vertebra | |  | |
| 1 | *Sylvilagus nuttallii* | | Left P4 | |  | |
| 1 | *Sylvilagus nuttallii* | | (2x) Left M1 | |  | |
| 1 | *Sylvilagus nuttallii* | | Left P3 | |  | |
| 1 | *Sylvilagus nuttallii* | | Right p3 | |  | |
| 1 | *Sylvilagus nuttallii* | | Left p4 or m1 or m2 | |  | |
| 1 | *Neotoma* | | Right M1 | |  | |
| 1 | *Neotoma* | | (2x) Left M2 | |  | |
| 1 | *Neotoma* | | (2x) Left m2 | |  | |
| 1 | *Neotoma* | | Right M2 | |  | |
| 1 | *Neotoma* | | Left m1 | |  | |
| 1 | *Neotoma* | | Right m1 | |  | |
| 1 | *Microtus* sp. | | Left M1 | |  | |
| 1 | *Microtus* sp. | | Left M3 | |  | |
| 1 | *Microtus* sp. | | Right mandible fragment with m1-m3 | |  | |
| 1 | *Microtus* sp*.* | | Left mandible fragment with m1 | |  | |
| 1 | *Microtus* sp*.* | | Skull fragment with no teeth | |  | |
| 1 | *Microtus* sp*.* | | Left mandible fragment with no teeth | |  | |
| 1 | *Microtus* sp*.* | | Right mandible fragment with no teeth | |  | |
| 1 | *Microtus* sp. | | Left mandible fragment with i and m1 | |  | |
| 1 | *Microtus* sp*.* | | Left mandible fragment with i1 | |  | |
| 1 | *Microtus* sp*.* | | Maxilla fragment with no teeth | |  | |
| 1 | *Microtus* sp. | | (2x) Right M3 | |  | |
| 1 | *Microtus* sp*.* | | (2x) Right m1 | |  | |
| 1 | *Microtus* sp*.* | | (2x) Right mandible fragment with i1 | |  | |
| 1 | *Microtus pennsylvanicus* | | Left mandible with i1 + m1-2 | |  | |
| 1 | *Microtus pennsylvanicus* | | Right partial mandible with m1 | |  | |
| 1 | *Microtus pennsylvanicus* | | (2x) Left m1 | |  | |
| 1 | *Microtus pennsylvanicus* | | Right m1 | |  | |
| 1 | *Microtus pennsylvanicus* | | Right M1 | |  | |
| 1 | *Microtus pennsylvanicus* | | (2x) Left M1 | |  | |
| 1 | *Microtus montanus* | | (3x) Left m1 | |  | |
| 1 | *Microtus montanus* | | Right m1 | |  | |
| 1 | *Microtus montanus* | | (5x) Right M1 | |  | |
| 1 | *Microtus montanus* | | Skull fragment with right M2 | |  | |
| 1 | *Microtus montanus* | | Left M1 | |  | |
| 1 | *Microtus montanus* | | Right M2 | |  | |
| 1 | *Myodes gapperi* | | Right medial mandible with m1-2 | |  | |
| 1 | *Phenacomys intermedius* | | (2x) Right m1 (juvenile) | |  | |
| 1 | *Tamias minimus* | | Left mandible with i1, p4, and m1-2 | |  | |
| 1 | *Sorex palustris* | | Right mandible with i1 + p4-m3 | |  | |
| 1 | c.f. *Dendragapus obscurus* | | Complete left scapula | |  | |
| 1 | Artiodactyl | | (3x) vertebrae fragments | |  | |
| 1 | Artiodactyl | | Distal shaft of femur | |  | |
| 1 | Odocoileus | | Left astragalus | |  | |
| 1 | *Cervus* | | Carpal bone | |  | |
| 1 | *Cervus* | | Right I3 | |  | |
| 1 | *Ovis canadensis* | | Right mandible fragment with worn p4 | |  | |
| 1 | *Canis latrans* | | Complete right tibia (juvenile) | |  | |
| 2 | *Marmota flaviventris* | | Left p4 | |  | |
| 2 | *Marmota flaviventris* | | Left m1 or m2 | |  | |
| 2 | *Marmota flaviventris* | | Right M1 | |  | |
| 2 | *Marmota flaviventris* | | Medial skull fragment with no teeth | |  | |
| 2 | *Marmota flaviventris* | | Left mandible with i1 | |  | |
| 2 | *Marmota flaviventris* | | Left premaxilla with no I1 | |  | |
| 2 | *Marmota flaviventris* | | Left radius missing distal end | |  | |
| 2 | *Marmota flaviventris* | | Left ulna | |  | |
| 2 | *Marmota flaviventris* | | Left ulna missing ends | |  | |
| 2 | *Marmota flaviventris* | | Right ulna (juvenile) | |  | |
| 2 | *Lepus americanus* | | Right proximal femur | |  | |
| 2 | *Lepus americanus* | | Right calcaneus | |  | |
| 2 | *Sylvilagus nuttallii* | | Left p4 or m1 | |  | |
| 2 | *Neotoma* | | (4x) Right m1 | |  | |
| 2 | *Neotoma* | | (2x) Left m1 | |  | |
| 2 | *Neotoma* | | Right M1 | |  | |
| 2 | *Neotoma* | | (3x) Right m2 | |  | |
| 2 | *Neotoma* | | Left m2 | |  | |
| 2 | *Neotoma* | | (2x) Right M2 | |  | |
| 2 | *Neotoma* | | Left mandible fragment with m1-2 | |  | |
| 2 | *Microtus sp.* | | Right mandible fragment with i1 | |  | |
| 2 | *Microtus sp.* | | Skull fragment with left M2 | |  | |
| 2 | *Microtus sp.* | | Right mandible fragment with no teeth | |  | |
| 2 | *Microtus sp.* | | Skull fragment with no teeth | |  | |
| 2 | *Microtus sp.* | | Left manidble fragment with i1 | |  | |
| 2 | *Microtus sp.* | | Left M3 | |  | |
| 2 | *Microtus pennslyvanicus* | | Right M1 | |  | |
| 2 | *Microtus pennslyvanicus* | | Right m2 | |  | |
| 2 | *Microtus pennslyvanicus* | | (2x) Right m1 | |  | |
| 2 | *Microtus pennslyvanicus* | | (2x) Left m1 | |  | |
| 2 | *Microtus pennslyvanicus* | | Left complete mandible with i1, m1-2 | |  | |
| 2 | *Microtus pennslyvanicus* | | Left mandible fragment with i1, m1-2 | |  | |
| 2 | *Microtus montanus* | | (2x) Right m1 | |  | |
| 2 | *Microtus montanus* | | Left m1 | |  | |
| 2 | *Microtus montanus* | | Left mandible fragment with i1, m1-2 | |  | |
| 2 | *Myodes gapperi* | | Left mandible fragment with i1, m1-2 | |  | |
| 2 | *Peromyscus miniculatus* | | Right mandible with i1, m1-3 | |  | |
| 2 | Artiodactyl | | (2x) proximal pelvic fragments | |  | |
| 2 | *Odocoileus* | | Right frontal bone (juvenile) | |  | |
| 2 | Artiodactyl | | Right distal humerus | | Worn (Deer?) | |
| 2 | Artiodactyl | | Proximal shaft fragment of metatarsal | |  | |
| 2 | Artiodactyl | | Lumbar vertebra fragment | |  | |
| 2 | Artiodactyl | | Tooth fragment | |  | |
| 2 | Passeriformes | | Tibiotarsus | |  | |
| 2 | Large mammal | | Unidentifiable shaft and fragments | |  | |
| 3 | *Marmota flaviventris* | | Complete maxilla with no teeth | |  | |
| 3 | *Marmota flaviventris* | | Left M2 | |  | |
| 3 | *Marmota flaviventris* | | Left M1 | |  | |
| 3 | *Marmota flaviventris* | | Left p4 | |  | |
| 3 | *Marmota flaviventris* | | Left p4 (juvenile) | |  | |
| 3 | *Marmota flaviventris* | | Left mandible with p4-m3 (Juvenile) | |  | |
| 3 | *Marmota flaviventris* | | Right premaxilla with i1 (juvenile) | |  | |
| 3 | *Lepus americanus* | | Right distal humerus | |  | |
| 3 | *Lepus americanus* | | Right medial mandible with no teeth | |  | |
| 3 | *Sylvilagus nuttallii* | | Right medial mandible with m2 | |  | |
| 3 | *Ochotona* | | Right medial maxilla with no teeth | |  | |
| 3 | *Neotoma* | | Left M1 | |  | |
| 3 | *Neotoma* | | (4x) Right m2 | |  | |
| 3 | *Neotoma* | | Right m1 | |  | |
| 3 | *Neotoma* | | (3x) Left m2 | |  | |
| 3 | *Neotoma* | | (2x) Right M1 | |  | |
| 3 | *Neotoma* | | (2x) Left M2 | |  | |
| 3 | *Neotoma* | | Right M2 | |  | |
| 3 | *Neotoma* | | Left m3 | |  | |
| 3 | *Neotoma* | | Left maxilla fragment with M1 | |  | |
| 3 | *Neotoma* | | Left mandible fragment with m2-3 | |  | |
| 3 | *Neotoma* | | Right maxilla fragment with M1 | |  | |
| 3 | *Microtus* sp. | | Right M1 | |  | |
| 3 | *Microtus* sp. | | Right m2 | |  | |
| 3 | *Microtus* sp. | | Right m1 | |  | |
| 3 | *Microtus* sp. | | Skull fragment with no teeth | |  | |
| 3 | *Microtus* sp. | | Right mandible fragment with no teeth | |  | |
| 3 | *Microtus* sp. | | Left mandible fragment with i1 | |  | |
| 3 | *Microtus* sp. | | Maxilla with Left M1-2 | |  | |
| 3 | *Microtus* sp. | | (2x) Right mandible fragment with i1 | |  | |
| 3 | *Microtus pennslyvanicus* | | Left m1 | |  | |
| 3 | *Microtus pennslyvanicus* | | Right m1 | |  | |
| 3 | *Microtus pennslyvanicus* | | Left mandible fragment with i1 + m2 | |  | |
| 3 | *Microtus pennslyvanicus* | | Maxilla with Left M1-2 and Right M1 | |  | |
| 3 | *Microtus montanus* | | (2x) Right M2 | |  | |
| 3 | *Microtus montanus* | | Right m2 | |  | |
| 3 | *Microtus longicaudus* | | Left M1 | |  | |
| 3 | *Myodes gapperi* | | Right m1 | |  | |
| 3 | *Myodes gapperi* | | Left mandible fragment with m1-2 | |  | |
| 3 | *Myodes gapperi* | | Left medial mandible fragment with m3 | |  | |
| 3 | *Tamias minimus* | | Right maxilla with P3-M2 | |  | |
| 3 | *Callospermophilus lateralis* | | Right medial mandible with p4 + m1-2 | |  | |
| 3 | *Peromyscus maniculatus* | | Right mandible with i1 and m1 | |  | |
| 3 | *Erethizon dorsatum* | | Right humeral end of scapula | |  | |
| 3 | *Canis latrans* | | Left frontal of skull (juvenile) | |  | |
| 3 | Large mammal | | Shaft fragment | |  | |
| 4 | *Marmota flaviventris* | | Left ulna | |  | |
| 4 | *Marmota flaviventris* | | Left mandible with p4,m1,m3 and no i1 | |  | |
| 4 | *Marmota flaviventris* | | Right m3 | |  | |
| 4 | *Marmota flaviventris* | | Left P4 | |  | |
| 4 | *Lepus americanus* | | sacrum | |  | |
| 4 | *L. americanus* or *S. nuttallii* | | Left p4 or m1-2 | |  | |
| 4 | *Neotoma* | | (3x) Right m1 | |  | |
| 4 | *Neotoma* | | (3x) Left m2 | |  | |
| 4 | *Neotoma* | | Left m1 | |  | |
| 4 | *Neotoma* | | Right M1 | |  | |
| 4 | *Neotoma* | | Right m2 | |  | |
| 4 | *Neotoma* | | Right mandible fragment with 1/2 m1 and 1/2 m2 | |  | |
| 4 | *Neotoma* | | Left mandible fragment with m1 | |  | |
| 4 | *Microtus* sp. | | Right M2 | |  | |
| 4 | *Microtus* sp. | | Left mandible with i1 | |  | |
| 4 | *Microtus* sp. | | Left mandible fragment no teeth | |  | |
| 4 | *Microtus pennslyvanicus* | | Right m1 | |  | |
| 4 | *Microtus pennslyvanicus* | | (2x) Right M1 | |  | |
| 4 | *Microtus longicaudus* | | Right M1 | |  | |
| 4 | *Sorex monticolus* | | Left mandible with i1 + m1-3 | |  | |
| 4 | Artiodactyl | | 3rd phalange | | Badly eroded | |
| 4 | Artiodactyl | | Medial shaft of femur | | Rodent incisor gnaw marks | |
| 4 | *Canis latrans* | | Left pelvis | |  | |
| 4 | *Canis latrans* | | Distal tibia epiphysis | |  | |
| 4 | *Canis latrans* | | Distal femur epiphysis | |  | |
| 4 | *Martes americana* | | Right p4 | |  | |
| 4 | Large mammal | | Bone fragments | | Carnivore canine teeth marks | |
| 5 | *Marmota flaviventris* | | Humeral right scapula | |  | |
| 5 | *Lepus americanus* | | Proximal sacral fragment | |  | |
| 5 | *Lepus americanus* | | Left medial tibia fragment | |  | |
| 5 | *Lepus americanus* | | Left p3 | |  | |
| 5 | *Sylvilagus nuttallii* | | Distal femur missing epiphysis | |  | |
| 5 | *Ochotona* | | Left distal mandible with p4-m2 | |  | |
| 5 | *Neotoma* | | (3x) Left m2 | |  | |
| 5 | *Neotoma* | | Left M1 | |  | |
| 5 | *Neotoma* | | Right M2 | |  | |
| 5 | *Neotoma* | | Left M2 | |  | |
| 5 | *Neotoma* | | Right m3 | |  | |
| 5 | *Neotoma* | | Right mandible fragment with m1 | |  | |
| 5 | *Neotoma* | | Right maxilla fragment with M1-2 | |  | |
| 5 | *Microtus* sp. | | (2x) Right M1 | |  | |
| 5 | *Microtus* sp. | | Right m2 | |  | |
| 5 | *Microtus* sp. | | Right mandible fragment with i1 | |  | |
| 5 | *Microtus* sp. | | Right mandible fragment no teeth | |  | |
| 5 | *Microtus pennslyvanicus* | | (2x) Right m1 | |  | |
| 5 | *Microtus pennslyvanicus* | | (3x) Left m1 | |  | |
| 5 | *Microtus pennslyvanicus* | | Right mandible with i1, m1-2 | |  | |
| 5 | *Microtus montanus* | | Left m1 | |  | |
| 5 | *Myodes gapperi* | | Right mandible with i1, m1-2 | |  | |
| 5 | *Peromyscus maniculatus* | | Right maxilla with M1-2 | |  | |
| 5 | Artiodactyl | | (1x) thoracic and (1x) lumbar vertebrae | |  | |
| 5 | *Canis latrans* | | Right scapula | |  | |
| 5 | *Canis latrans* | | Left radius missing epiphysis | |  | |
| 5 | *Dendragapus obscurus* | | End of furculum | |  | |
| 5 | *Dendragapus obscurus* | | Left scapula humeral end | |  | |
| 5 | *Dendragapus obscurus* | | Distal right tibiotarsus | |  | |
| 5 | Large mammal | | Bone shafts and fragment | | One with saw marks | |
| 5 | Large mammal | | Rib | |  | |
| 6 | *Marmota flaviventris* | | Right maxilla and premaxilla No I1. with M2-3 | |  | |
| 6 | *Marmota flaviventris* | | Right mandible No i1, p4, m1-m3 | |  | |
| 6 | *Marmota flaviventris* | | Right m2 | |  | |
| 6 | *Marmota flaviventris* | | Right premaxilla, No I1 | |  | |
| 6 | *Lepus americanus* | | Right astragalus | |  | |
| 6 | *Lepus americanus* | | Right proximal scapula | |  | |
| 6 | *Sylvilagus nuttallii* | | (2x) Left P3 | |  | |
| 6 | *Sylvilagus nuttallii* | | Left P4 | |  | |
| 6 | *Sylvilagus nuttallii* | | Left M2 | |  | |
| 6 | *Sylvilagus nuttallii* | | Left m1 or m2 | |  | |
| 6 | *Neotoma* | | Left maxilla fragment with M1-2 | |  | |
| 6 | *Neotoma* | | Left m1 | |  | |
| 6 | *Neotoma* | | (2x) Left m2 | |  | |
| 6 | *Neotoma* | | Right M2 | |  | |
| 6 | *Neotoma* | | Right m1 fragment | |  | |
| 6 | *Microtus* sp. | | Right m1 | |  | |
| 6 | *Microtus* sp. | | Left M1 | |  | |
| 6 | *Microtus* sp. | | Left maxilla fragment with M1-2 | |  | |
| 6 | *Microtus* sp. | | Right maxilla fragment with M1-2 | |  | |
| 6 | *Microtus* sp. | | Left mandible with m1 | |  | |
| 6 | *Microtus* sp. | | Left mandible with i1 and m1 | |  | |
| 6 | *Microtus* sp. | | Right maxilla fragment with I1 | |  | |
| 6 | *Microtus* sp. | | (2x) Left mandible fragment with no teeth | |  | |
| 6 | *Microtus* sp. | | Right mandible fragment with no teeth | |  | |
| 6 | *Microtus* sp. | | Left mandible fragment with i1 | |  | |
| 6 | *Microtus* sp. | | Right maxilla fragment with no teeth | |  | |
| 6 | *Peromyscus* sp. | | Right mandible with no teeth | |  | |
| 6 | *Dendragapus obscurus* | | Left coracoid | |  | |
| 6 | *Thomomys* | | Right mandible with i1, p4 | |  | |
| 7 | *Marmota flaviventris* | | Right mandible no teeth | |  | |
| 7 | *Marmota flaviventris* | | Skull with no teeth | | Missing premaxilla and occipital region | |
| 7 | *Marmota flaviventris* | | (2x) Deciduous left P4 | |  | |
| 7 | *Marmota flaviventris* | | Right P4 | |  | |
| 7 | *Marmota flaviventris* | | Right M2 | |  | |
| 7 | *Lepus americanus* | | Right calcaneum | |  | |
| 7 | *Lepus americanus* | | Right astragalus | |  | |
| 7 | *Lepus americanus* | | Right distal tibia | |  | |
| 7 | *Lepus americanus* | | Right medial femur shaft | |  | |
| 7 | *Lepus americanus* | | Right medial pelvic fragment | |  | |
| 7 | *Lepus americanus* | | Right m1 | |  | |
| 7 | *Sylvilagus nuttallii* | | Lumbar vertebra fragment | |  | |
| 7 | *Ochotona* | | Right m1 or m2 | |  | |
| 7 | *Neotoma* | | Left m1 | |  | |
| 7 | *Neotoma* | | Right M2 | |  | |
| 7 | *Neotoma* | | Left M1 | |  | |
| 7 | *Microtus* sp. | | Left M1 | | very worn | |
| 7 | *Microtus* sp. | | (2x) Right M1 | |  | |
| 7 | *Microtus* sp. | | (2x) Left m1 | |  | |
| 7 | *Microtus* sp. | | Right m1 | |  | |
| 7 | *Microtus* sp. | | Skull fragment with right M1-2 | |  | |
| 7 | *Microtus* sp. | | Right mandible with i1 and m1 | |  | |
| 7 | *Callospermophilus lateralis* | | Right maxilla fragment with M2 | |  | |
| 7 | Artiodactyl | | (3x) thoracic vertebrae | |  | |
| 7 | *Ovis canadensis* | | 1st phalange | |  | |
| 7 | Large mammal | | Bone fragment | |  | |
| 8 | *Marmota flaviventris* | | (2x) Right M2 | |  | |
| 8 | *Marmota flaviventris* | | Clavicle | |  | |
| 8 | *Lepus americanus* | | Lumbar vertebra | |  | |
| 8 | *Lepus americanus* | | Right proximal radius | |  | |
| 8 | Leporidae | | distal humerus | |  | |
| 8 | *Lepus americanus* | | Metatarsal (unknown) distal end broken | |  | |
| 8 | *Lepus americanus* | | Left radius | |  | |
| 8 | *Lepus americanus* | | Left distal tibia | |  | |
| 8 | *Lepus americanus* | | (2x) 1st phalange | |  | |
| 8 | *Lepus americanus* | | Left P3 | |  | |
| 8 | *Lepus townsendii* | | Left 5th metatarsal proximal end | |  | |
| 8 | *Neotoma* | | Maxilla fragment with Left M1 and Right M1 | |  | |
| 8 | *Neotoma* | | (3x) Right m1 | |  | |
| 8 | *Neotoma* | | Right M1 | |  | |
| 8 | *Neotoma* | | Left m2 | |  | |
| 8 | *Neotoma* | | Left M1 | |  | |
| 8 | *Neotoma* | | Right m2 | |  | |
| 8 | *Neotoma* | | Left M2 | |  | |
| 8 | *Microtus* sp. | | Right M1 | |  | |
| 8 | *Microtus* sp. | | (3x) Right m1 | |  | |
| 8 | *Microtus* sp. | | (2x) Left m1 | |  | |
| 8 | *Microtus* sp. | | Right mandible with no teeth | |  | |
| 8 | *Microtus* sp. | | Left mandible with no teeth | |  | |
| 8 | *Microtus* sp. | | Skull fragment with left M1 | |  | |
| 8 | *Microtus* sp. | | Right mandible with i1 and m1-2 | |  | |
| 8 | *Microtus* sp. | | (2x) Right mandible with i1 | |  | |
| 8 | *Microtus* sp. | | Left mandible fragment with i1 and m1 | |  | |
| 8 | *Callospermophilus lateralis* | | Left m2 | |  | |
| 8 | *Cervus* | | Left maxilla fragment with M1 | |  | |
| 8 | *Odocoileus* | | Left P2 fragment | |  | |
| 8 | Large mammal | | Shafts and fragments | | Rodent gnaw marks | |
| 8 | *Erethizon dorsatum* | | Right mandible with p4-m3 | |  | |
| 9 | *Marmota flaviventris* | | Skull with Left M2+3, P4, No I1 and Right M2-3, with I1 | |  | |
| 9 | *Marmota flaviventris* | | Left premolar m1 | |  | |
| 9 | *Marmota flaviventris* | | Upper premolar/molar fragment | |  | |
| 9 | *Marmota flaviventris* | | Right nasal bone | | Separate individual | |
| 9 | *Marmota flaviventris* | | Right p4 (Juvenile) | |  | |
| 9 | *Marmota flaviventris* | | Left i1 | |  | |
| 9 | *Lepus americanus* | | Right medial ulna | |  | |
| 9 | *Lepus americanus* | | Left medial pelvis | |  | |
| 9 | *Lepus americanus* | | Thoracic vertebra | |  | |
| 9 | *Lepus americanus* | | Right distal humerus | |  | |
| 9 | *Lepus americanus* | | (2x) Left astragulus | |  | |
| 9 | *Lepus americanus* | | Left maxilla with no teeth | |  | |
| 9 | *Lepus americanus* | | Left M1 | |  | |
| 9 | *Lepus americanus* | | Left P3 | |  | |
| 9 | *Sylvilagus nuttallii* | | Left maxilla with no teeth | |  | |
| 9 | *Sylvilagus nuttallii* | | Left p3 | |  | |
| 9 | *Sylvilagus nuttallii* | | Left M1 | |  | |
| 9 | *Sylvilagus nuttallii* | | Right P4 | |  | |
| 9 | *Sylvilagus nuttallii* | | Left P4 | |  | |
| 9 | *Ochotona* | | maxilla with no teeth | |  | |
| 9 | *Neotoma* | | Maxilla fragment with Left M1 and Right M1 | |  | |
| 9 | *Neotoma* | | Left mandible with i1, m1-2 | |  | |
| 9 | *Neotoma* | | (2x) Right m1 | |  | |
| 9 | *Neotoma* | | Right M1 | |  | |
| 9 | *Neotoma* | | Left m2 | |  | |
| 9 | *Microtus* sp. | | Left i1 | |  | |
| 9 | *Microtus* sp. | | Left m1 | |  | |
| 9 | *Microtus* sp. | | Right m1 | |  | |
| 9 | *Microtus* sp. | | Right M2 | |  | |
| 9 | *Microtus* sp. | | Left mandible with i1 and m1 | |  | |
| 9 | *Microtus* sp. | | Right mandible with i1 and m2 | |  | |
| 9 | *Microtus* sp. | | (2x) Skull fragments with no teeth | |  | |
| 9 | *Microtus* sp. | | Right mandible with no teeth | |  | |
| 9 | *Tamiasciurus hudsonicus* | | Left maxilla with M1 | |  | |
| 9 | Large mammal | | Rib | |  | |
| 9 | *Dendragapus obscurus* | | Left proximal humerus | | Piece of shaft removed for C14 dating | |
| 10 | *Marmota flaviventris* | | Right nasal bone | |  | |
| 10 | *Marmota flaviventris* | | (2x) Skull fragments | |  | |
| 10 | *Marmota flaviventris* | | Left premaxilla fragment | |  | |
| 10 | *Marmota flaviventris* | | Upper tooth fragment | |  | |
| 10 | *Lepus americanus* | | Left distal femur | |  | |
| 10 | *Lepus americanus* | | 3rd metatarsal | |  | |
| 10 | *Lepus americanus* | | (2x) Lumbar vertebrae | |  | |
| 10 | *Lepus americanus* | | Right mandible with m1-2 | |  | |
| 10 | *Lepus americanus* | | Right P2 | |  | |
| 10 | *Lepus americanus* | | Right M1 or M2 | |  | |
| 10 | *Lepus americanus* | | Left p3 | |  | |
| 10 | *Sylvilagus nuttallii* | | (2x) Left m1 | |  | |
| 10 | *Sylvilagus nuttallii* | | Right P4or M1 | |  | |
| 10 | *Sylvilagus nuttallii* | | Right P3 | |  | |
| 10 | *Sylvilagus nuttallii* | | Left m1 or m2 | |  | |
| 10 | *Sylvilagus nuttallii* | | Left P4 or M1 | |  | |
| 10 | *Sylvilagus nuttallii* | | Left P2 | |  | |
| 10 | *Sylvilagus nuttallii* | | Left p4 | |  | |
| 10 | *Sylvilagus nuttallii* | | (3x) Left M2 | |  | |
| 10 | *Neotoma* | | (2x) Left m1 | |  | |
| 10 | *Neotoma* | | Right M2 | |  | |
| 10 | *Neotoma* | | Left m2 | |  | |
| 10 | *Neotoma* | | (3x) Left M1 | |  | |
| 10 | *Microtus* sp. | | Left m1 | |  | |
| 10 | *Microtus* sp. | | Right M3 | |  | |
| 10 | *Microtus* sp. | | Left M1 | |  | |
| 10 | *Microtus* sp. | | Right M1 | |  | |
| 10 | *Microtus* sp. | | Right m1 | |  | |
| 10 | *Microtus* sp. | | Left M3 | |  | |
| 10 | *Microtus* sp. | | Left M2 | |  | |
| 10 | *Microtus* sp. | | (2x) Right M2 | |  | |
| 10 | *Microtus* sp. | | Skull with left I1 and right I1 | |  | |
| 10 | *Microtus* sp. | | Left mandible with i1 and m1 | |  | |
| 10 | *Microtus* sp. | | Right mandible with i1 | |  | |
| 10 | *Sorex monticolus* | | Left mandible with p3-m3 | |  | |
| 10 | *Phenacomys intermedius* | | Left M1 | |  | |
| 10 | *Peromyscus maniculatus* | | Left mandible with i1 and m1 | |  | |
| 10 | Artiodactyl | | Thoracic vertebra (juvenile) | |  | |
| 10 | *Odocoileus* | | Distal end of metatarsal | |  | |
| 10 | Artiodactyl | | Right medial scapula (juvenile) | |  | |
| 10 | Artiodactyl | | Tooth fragment | |  | |
| 10 | *Canis latrans* | | Left tibia proximal epiphysis | |  | |
| 10 | *Dendragapus obscurus* | | Left distal humerus | |  | |
| 10 | Passeriformes (?) | | Right tibiotarsus missing distal end | |  | |
| 10 | Large mammal | | Shafts and fragments | |  | |
| 11 | *Marmota flaviventris* | | Right mandible with all teeth | |  | |
| 11 | *Marmota flaviventris* | | (2x) i1 | |  | |
| 11 | *Marmota flaviventris* | | Right auditory bulla | |  | |
| 11 | *Lepus americanus* | | Left calcaneum | |  | |
| 11 | *Lepus americanus* | | Left distal humerus | |  | |
| 11 | *Lepus americanus* | | Right humerus proximal end broken | |  | |
| 11 | *Lepus americanus* | | Left distal tibia | |  | |
| 11 | *L. americanus* or *S. nuttallii* | | Left p4 or m1-2 | |  | |
| 11 | *Odocoileus* | | Left P4 | |  | |
| 11 | *Odocoileus* | | Left p2 | |  | |
| 11 | *Neotoma* | | Right distal mandible with no teeth | |  | |
| 11 | *Neotoma* | | (2x) Right m1 | |  | |
| 11 | *Neotoma* | | Right m2 | |  | |
| 11 | *Neotoma* | | (3x) Right M2 | |  | |
| 11 | *Neotoma* | | Right M1 | |  | |
| 11 | *Neotoma* | | Left M1 | |  | |
| 11 | *Microtus* sp. | | (5x) Right m1 | |  | |
| 11 | *Microtus* sp. | | (2x) Left m1 | |  | |
| 11 | *Microtus* sp. | | Left M1 | |  | |
| 11 | *Microtus* sp. | | Left M2 | |  | |
| 11 | *Microtus* sp. | | Right mandible with m1-2 | |  | |
| 11 | *Microtus* sp. | | (2x) Left mandible with i1 | |  | |
| 11 | *Microtus* sp. | | Right mandible with i1 | |  | |
| 11 | *Microtus* sp. | | Left mandible fragment with m1-2 | |  | |
| 11 | *Myodes gapperi* | | Left mandible with i1 | |  | |
| 11 | *Colaptes auratus* | | Complete right ulna | |  | |
| 11 | *Martes americana* | | Skull missing maxilla | |  | |
| 12 | *Marmota flaviventris* | | Deciduous right p4 | |  | |
| 12 | *Marmota flaviventris* | | Left p4 | |  | |
| 12 | *Marmota flaviventris* | | Partial Left p4 | |  | |
| 12 | *Neotoma* | | Right m1 | |  | |
| 12 | *Neotoma* | | Left M2 | |  | |
| 12 | *Neotoma* | | (2x) Left m1 | |  | |
| 12 | *Neotoma* | | Left m2 | |  | |
| 12 | *Neotoma* | | Right m2 | |  | |
| 12 | *Neotoma* | | Maxilla fragment with right M1 | |  | |
| 12 | *Microtus* sp. | | Right mandible with m1-2 | |  | |
| 12 | *Microtus* sp. | | (2x) Left m1 | |  | |
| 12 | *Microtus* sp. | | (2x) Right M1 | |  | |
| 12 | *Microtus* sp. | | m1 | | side unknown b/c too worn | |
| 12 | *Lepus americanus* | | Right distal humerus | |  | |
| 12 | *Lepus americanus* | | Left P3 | |  | |
| 12 | *L. americanus* or *S. nuttallii* | | Left p4 or m1-2 | |  | |
| 12 | *L. americanus* or *S. nuttallii* | | Right p4 or m1-2 | |  | |
| 12 | *Martes americana* | | Left maxilla with P4-M1 | |  | |
| 12 | *Mustela* sp. | | Right mandible with p3-m1 | |  | |
| 13 | *Marmota flaviventris* | | Occipital fragments | |  | |
| 13 | *Marmota flaviventris* | | Left distal humerus | |  | |
| 13 | *Marmota flaviventris* | | Left premaxilla | |  | |
| 13 | *Marmota flaviventris* | | Right auditory bulla | |  | |
| 13 | *Marmota flaviventris* | | Right astragalus | |  | |
| 13 | *Marmota flaviventris* | | Right m1 deciduous | |  | |
| 13 | *Marmota flaviventris* | | Left M2 | |  | |
| 13 | *Lepus americanus* | | Left mandible fragment with m1 and m2 | |  | |
| 13 | *Sylvilagus nuttallii* | | Right P4 or M1 | |  | |
| 13 | *Martes americana* | | Right auditory bulla | |  | |
| 13 | Large mammal | | Small skull fragment | | with rodent gnaw marks | |
| 13 | *Neotoma* | | Left m1 | |  | |
| 13 | *Neotoma* | | (2x) Right M2 | |  | |
| 13 | *Neotoma* | | Left M2 | |  | |
| 13 | *Neotoma* | | Left m2 | |  | |
| 13 | *Microtus* sp. | | Right m1 | |  | |
| 13 | *Microtus* sp. | | (3x) Left m1 | |  | |
| 14 | *Lepus americanus* | | Right metatarsal | |  | |
| 14 | *Lepus americanus* | | Right P2 | |  | |
| 14 | *Neotoma* | | Right m1 | |  | |
| 14 | *Neotoma* | | Right M2 | |  | |
| 14 | *Neotoma* | | (2x) Right M1 | |  | |
| 14 | *Neotoma* | | Left m1 | |  | |
| 14 | *Microtus* sp. | | (2x) Left m1 | |  | |
| 14 | *Microtus* sp. | | Right M1 | |  | |
| 14 | *Microtus* sp. | | Left mandible with i1 | |  | |
| 14 | *Microtus* sp. | | Left mandible with i1 + m1 | |  | |
| 14 | *Tamiasciurus hudsonicus* | | Left M1 | |  | |
| 14 | *Callospermophilus lateralis* | | Right distal mandible with i1 + p4 | | smaller than *T. minimus* | |
| 14 | Large mammal | | (2x) shaft fragments | |  | |
| 14 | Passeriformes (?) | | distal mandible | |  | |
| 15 | *Marmota flaviventris* | | Left p4 or m1 deciduous | |  | |
| 15 | *Neotoma* | | Left M1 | |  | |
| 15 | *Neotoma* | | Left M3 ? | |  | |
| 15 | *Microtus* sp. | | Right m1 | |  | |
| 15 | *Microtus* sp. | | Left M2 | |  | |
| 15 | *Microtus* sp. | | Right M1 | |  | |
| 15 | *Microtus* sp. | | Right mandible with i1 + m1-2 | |  | |
| 15 | *Microtus* sp. | | Right mandible with i1 | |  | |
| 15 | *Microtus* sp. | | Left mandible fragment with no teeth | |  | |
| 15 | *Sylvilagus nuttallii* | | Left p4 | |  | |
| 15 | *Thomomys* | | Pelvis and sacrum | | right side removed for C14 dating | |
| 15 | Passeriformes | | Distal tarsometatarsus | |  | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Supplementary Table 4: Cement Creek Cave, TP 2 NE Extension, fossil identifications from selected levels, 2007 excavations. Numbers represent total identifiable specimens with MNI in parentheses** | | | | | | | | | | | | |
|  |  |  | **Level** |  |  |  |  |  |  |  |  |  |  |
| **Taxon** | **40** | **35** | **30** | **26** | **20** | **15** | **14** | **13** | **12** | **11** | **10** | **9** | **5** |
| **Amphibia** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Anura** |  |  |  |  |  | 1 |  |  |  |  |  |  |  |
| **Reptilia** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Serpentes | 1 (1) |  |  |  |  |  |  |  |  |  |  |  |  |
| **Aves** |  |  |  |  |  |  |  | 2 |  | 1 |  |  |  |
| *Anas* sp. |  |  |  |  | 1 (1) |  |  |  |  |  |  |  |  |
| Phasianidae |  |  |  |  | 1 |  |  |  |  |  |  |  |  |
| Ptarmigan (*Lagopus* sp.) |  |  |  |  |  | 1 (1) |  | 2 (1) | 3 |  |  |  |  |
| Blue Grouse (*Dendragapus obscurus*) | 1 (1) |  |  |  |  |  |  |  |  | 3 (2) | 1 (1) | 1 (1) |  |
| Great Horned Owl (*Bubo virginianus*) |  |  |  |  |  |  |  |  |  | 1 (1) |  |  |  |
| Northern Flicker (*Colaptes auratus*) |  |  |  |  |  |  |  |  |  | 1 (1) |  |  |  |
| Pine Grosbeak (*Pinicola enucleator*) |  |  |  |  |  |  |  |  | 1 (1) |  |  |  |  |
| Passeriformes | 5 |  |  |  |  |  |  |  | 1 |  |  |  |  |
| **Insectivora** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Montane Shrew (*Sorex monticolus*) | 1 (1) | 1 (1) |  | 5 (2) |  | 2 (1) | 3 (2) |  |  |  |  |  |  |
| Dwarf Shrew (*Sorex nanus*) |  |  |  | 1 (1) |  |  |  |  |  |  |  |  |  |
| Masked Shrew (*Sorex cinereus*) | 1 (1) |  |  |  |  | 1 (1) | 1 (1) |  |  |  |  |  |  |
| Water Shrew (*Sorex palustris*) |  | 2 (2) | 3 (2) |  | 2 (1) | 1 (1) |  |  |  |  |  |  |  |
| Preble's Shrew (*Sorex preblei*) |  |  |  |  |  |  | 1 (1) |  |  |  |  |  |  |
| Shrew (*Sorex* sp.) | 2 | 4 | 2 |  |  |  |  | 2 (2) |  | 2 (2) |  |  |  |
| **Chiroptera** |  |  |  |  |  | 1 |  |  |  |  |  |  |  |
| **Lagomorpha** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| American Pika (*Ochotona princeps*) | 24 (4) | 51 (7) | 48 (7) | 51 (6) | 9 (2) | 16 (2) | 24 (5) | 5 (2) | 4 (2) | 4 (1) |  |  | 4 (1) |
| Snowshoe Hare (*Lepus americanus*) | 3 (1) | 2 (1) | 5 (1) | 1 (1) | 5 (1) | 7 (1) | 4 (1) | 8 (2) | 4 (1) | 6 (1) | 2 (1) |  |  |
| Cottontail (*Sylvilagus* sp.) |  |  |  |  |  | 1 (1) | 10 (2) | 3 (1) | 1 (1) |  |  | 2 (1) |  |
| White-tailed Jackrabbit (*Lepus townsendii*) |  | 2 (1) | 3 (1) | 8 (1) | 13 (1) | 3 (1) | 1 (1) | 1 (1) | 3 (1) |  |  |  | 1 (1) |
| Rabbit (*Lepus* sp.) |  |  | 1 |  | 4 |  | 1 |  |  | 1 |  |  |  |
| Leporidae |  | 3 |  | 1 |  |  |  | 1 |  | 3 |  |  |  |
| **Rodentia** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Least Chipmunk (*Tamias* cf. *T. minimus*) | 1 (1) | 7 (3) | 3 (2) | 7 (2) | 1 (1) | 2 (2) |  |  |  |  | 2 (1) |  |  |
| Chipmunk (*Tamias* sp.) |  |  |  |  |  |  | 17 (3) | 1 (1) | 1 (1) | 1 (1) |  |  |  |
| Yellow-bellied Marmot (*Marmota flaviventris*) | 8 (2) | 13 (2) | 21 (2) | 18 (2) | 37 (6) | 3 (1) | 5 (2) | 1 (1) | 3 (1) | 4 (2) |  | 1 (1) |  |
| Wyoming Ground Squirrel (*Urocitellus elegans*) | 29 (5) | 67 (7) | 51 (5) | 87 (9) | 27 (5) | 20 (3) | 42 (5) | 19 (3) | 7 (2) | 16 (3) | 1 (1) | 3 (1) |  |
| Golden-mantled Ground Squirrel (*Callospermophilus lateralis*) |  | 6 (2) | 10 (3) | 7 (1) |  | 6 (2) | 11 (4) | 3 (1) |  | 6 (1) |  | 6 (2) | 1 (1) |
| Prairie Dog (*Cynomys* sp.) |  |  |  |  |  |  |  |  |  | 1 (1) |  |  |  |
| Chickaree (*Tamiasciurus* cf. *T. hudsonicus*) |  |  |  |  |  | 3 (1) | 2 (1) |  |  | 1 (1) | 2 (2) |  |  |
| Pocket Gopher (*Thomomys* sp.) | 14 (3) | 18 (3) | 21 (4) | 40 (5) | 8 (3) | 22 (5) | 43 (5) | 19 (4) |  | 23 (5) | 22 (5) | 23 (7) | 7 (2) |
| Mouse (*Peromyscus* sp.) | 17 (4) | 6 (3) | 10 (4) | 13 (3) | 4 (2) | 18 (5) | 46 (9) | 11 (4) | 6 (3) | 13 (6) | 9 (6) | 22 (7) | 2 (1) |
| Bushy-tailed Woodrat (*Neotoma cinerea*) | 22 (3) | 36 (5) | 60 (9) | 25 (6) | 21 (4) | 20 (3) | 26 (5) | 22 (6) | 5 (1) | 25 (5) | 16 (3) | 3 (1) | 5 (2) |
| Southern Red-backed Vole (*Myodes gapperi*) |  |  |  |  |  | 5 (2) | 1 (1) |  | 1 (1) | 8 (2) | 1 (1) | 2 (1) |  |
| Heather Vole (*Phenacomys intermedius*) | 9 (1) | 40 (7) | 45 (8) | 29 (5) | 12 (4) | 23 (6) | 11 (2) | 3 (2) | 4 (1) | 10 (3) | 1 (1) | 2 (1) | 1 (1) |
| Vole (*Microtus* spp.) | 172 (33) | 150 (29) | 56 (12) | 107 (18) | 81 (23) | 148 (26) | 118 (16) | 74 (10) | 25 (6) | 80 (12) | 61 (10) | 63 (9) | 20 (4) |
| Sagebrush Vole (*Lemmiscus curtatus*) | 299 (38) | 408 (51) | 529 (61) | 399 (48) | 121 (19) | 103 (17) | 173 (22) | 62 (13) | 28 (8) | 70 (17) | 7 (4) | 2 (2) | 2 (1) |
| Lemming (*Dicrostonyx* sp.) |  |  |  |  |  | 1 (1) |  |  |  |  |  |  |  |
| Arvicolinae (voles) |  |  |  |  |  | 27 | 12 | 10 | 1 | 6 |  |  |  |
| Western Jumping Mouse (*Zapus* cf. *Z. princeps*) |  | 1 (1) |  |  |  |  |  |  |  |  |  |  |  |
| Porcupine (*Erethizon dorsatum*) |  |  |  |  |  | 1 (1) |  |  |  |  |  |  |  |
| **Carnivora** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Brachyprotoma* cf. *B. brevimala* | 1 (1) |  |  |  |  |  |  |  |  |  |  |  |  |
| Black Bear (*Ursus americanus*) | 1 (1) |  |  |  |  |  |  |  |  |  |  |  |  |
| Bear (*Ursus* sp.) |  |  |  | 1 (1) |  |  |  |  |  |  |  |  |  |
| Short-tailed or Least Weasel (*Mustela erminea* or *M. nivalis*) |  |  | 5 (1) |  |  | 1 (1) | 1 (1) |  |  |  |  |  |  |
| Long-tailed Weasel (*Mustela* cf. *M. frenata*) | 1 (1) |  |  | 1 (1) |  |  |  |  |  | 2 (2) |  |  |  |
| American Marten (*Martes americana*) |  |  |  |  |  |  | 10 (3) |  |  |  |  |  |  |
| Weasel (*Mustela* sp.) |  |  | 1 |  | 1 |  | 1 |  |  | 3 (1) |  |  |  |
| **Perissodactyla** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| \*Horse (*Equus* sp.) |  |  | 1 (1) |  |  |  |  |  |  |  |  |  |  |
| **Artiodactyla** |  | 1 |  |  | 1 |  |  |  |  |  |  |  |  |
| Bighorn Sheep (*Ovis canadensis*) |  |  |  | 1 (1) | 1 (1) |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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|  | **Supplementary Table 5: Richness and Evenness Calculations, Cement Creek Cave, TP2NE, 2007 excavations.** | | | | | |
|  | Shrews, Rabbits and Rodents only | | | |  |  |
| **LEVEL** | **RICHNESS** | **NISP** | **MNI** | **NISP DIV** | **MNI DIV** | **LN NISP** |
| 5 | 9 | 43 | 14 | 0.729 | 0.912 | 3.761 |
| 9 | 11 | 129 | 33 | 0.6964 | 0.848 | 4.860 |
| 10 | 11 | 124 | 35 | 0.7004 | 0.866 | 4.820 |
| 11 | 14 | 267 | 60 | 0.8156 | 0.862 | 5.587 |
| 12 | 12 | 91 | 28 | 0.8084 | 0.873 | 4.511 |
| 13 | 13 | 231 | 50 | 0.7983 | 0.873 | 5.442 |
| 14 | 18 | 522 | 85 | 0.812 | 0.878 | 6.258 |
| 15 | 21 | 408 | 83 | 0.7894 | 0.851 | 6.011 |
| 20 | 13 | 341 | 72 | 0.7915 | 0.818 | 5.832 |
| 26 | 15 | 798 | 110 | 0.7102 | 0.771 | 6.682 |
| 30 | 14 | 865 | 121 | 0.6062 | 0.723 | 6.763 |
| 35 | 16 | 810 | 125 | 0.6958 | 0.772 | 6.697 |
| 40 | 13 | 600 | 97 | 0.6624 | 0.729 | 6.397 |

|  |  |  |
| --- | --- | --- |
| **LEVEL** | **RICHNESS** | **LogN NISP** |
| Lev5 | 9 | 3.7612 |
| Lev9 | 11 | 4.859812 |
| Lev10 | 11 | 4.820282 |
| Lev11 | 14 | 5.587249 |
| Lev12 | 12 | 4.51086 |
| Lev13 | 13 | 5.442418 |
| Lev14 | 18 | 6.257668 |
| Lev15 | 21 | 6.011267 |
| Lev20 | 13 | 5.831882 |
| Lev26 | 15 | 6.682109 |
| Lev30 | 14 | 6.76273 |
| Lev35 | 16 | 6.697034 |
| Lev40 | 13 | 6.39693 |