

**Table 1. Drummond specimens**

**North America: Carlton House**

Order and family	Previous name	Type status	Current identification	Specimen	Specimen number	Citations
Carnivora: Mustelidae	<i>Mustela longicauda</i> Bonaparte, 1838	Holotype	<i>Mustela frenata</i> Lichtenstein, 1831	skin, skull	NHMUK 1843.3.3.3	Description Bonaparte (1838: 38); Gray (1843: 195); Thomas (catalogue):57
Rodentia: Sciuridae	<i>Arctomys empetra</i> (Pallas, 1778)		<i>Marmota monax</i> (Linnaeus, 1758)	skin, skull in skin	NHMUK GMCM Glires 94c	Richardson (1829: 147); Gray (1843: 147); Thomas (catalogue):374
Rodentia: Sciuridae	<i>Spermophilus franklinii</i> (Sabine, 1822)		<i>Poliocitellus franklinii</i>	skin	NHMUK GMCM Glires 61b or 61c	Gray (1843: 147); Thomas (catalogue):348
Rodentia: Sciuridae	<i>Spermophilus franklinii</i>		<i>Poliocitellus franklinii</i>	skin, skull in skin	NHMUK 1842.10.7.4	Gray (1843: 147); Thomas (catalogue):348
Rodentia: Sciuridae	<i>Spermophilus franklinii</i>		<i>Poliocitellus franklinii</i>	skin, skull in skin	NHMUK 1842.12.9.14	Gray (1843: 147); Thomas (catalogue):348
Rodentia: Sciuridae	<i>Spermophilus richardsonii</i> (Sabine, 1822)		<i>Urocitellus richardsonii</i>	skin, skull	NHMUK GMCM Glires 63c	Gray (1843: 146); Thomas (catalogue):337
Rodentia: Sciuridae	<i>Spermophilus richardsonii</i>		<i>Urocitellus richardsonii</i>	skin, skull in skin	NHMUK GMCM Glires 63d	Gray (1843: 146); Thomas (catalogue):337
Rodentia: Sciuridae	<i>Spermophilus richardsonii</i>		<i>Urocitellus richardsonii</i>	untraced	NHMUK GMCM Glires 63e	Gray (1843: 146)
Rodentia: Sciuridae	<i>Spermophilus hoodii</i> (Sabine, 1822)		<i>Ictidomys tridecemlineatus</i> (Mitchill, 1821)	skin, skull in skin	NHMUK 1842.12.9.20	Gray (1843: 146)
Rodentia: Sciuridae	<i>Spermophilus hoodii</i>		<i>Ictidomys tridecemlineatus</i>	untraced	NHMUK GMCM Glires 62b	Gray (1843: 146); Thomas (catalogue):345

**North America: Hudson's Bay countries**

Eulipotyphla: Soricidae	<i>Sorex forsteri</i> Richardson, 1828	Holotype	<i>Sorex cinereus</i> Kerr, 1792	skin	NHMUK 1842.10.7.2	Description Richardson (1828: 516); Richardson (1829: 6); Gray (1843: 79)
Eulipotyphla: Soricidae	<i>Sorex palustris</i> Richardson, 1828	Holotype	<i>Sorex palustris</i>	skin, skull	NHMUK 1842.10.7.1	Description Richardson (1828: 517); Richardson (1829: 5); Gray (1843: 80); Woodman (2018: 70)

## North America: Rocky Mountains

Carnivora: Mustelidae	<i>Martes americana abietinoides</i> Gray, 1865	Holotype	<i>Martes americana</i> (Turton, 1806)	skin	NHMUK 1842.12.9.5	Description Gray (1865: 106); Gray (1843: 63); Thomas (catalogue):27; Rhoads (1902: 451)
Lagomorpha: Ochotonidae	<i>Lepus (Lagomys) princeps</i> Richardson, 1828	Holotype	<i>Ochotona princeps</i>	skin, skull	NHMUK 1842.10.7.12	Description Richardson (1828: 520); Richardson (1829: 227); Gray (1843: 129); Thomas (catalogue):431; Preble (1908: 198)
Lagomorpha: Ochotonidae	<i>Lepus (Lagomys) princeps</i>		<i>Ochotona princeps</i>	skin, skull	NHMUK 1855.12.24.119	Richardson (1829: 227); Waterhouse (1838: 62)
Rodentia: Sciuridae	<i>Spermophilus lateralis</i> (Say, 1823)		<i>Callospermophilus lateralis</i>	skin, skull in skin	NHMUK GMCM Glires 131a	Richardson (1829: 175); Gray (1843: 145); Thomas (catalogue):303; (Preble, 1908: 166)
Rodentia: Sciuridae	<i>Spermophilus lateralis</i>		<i>Callospermophilus lateralis</i>	untraced	NHMUK GMCM Glires 131b	Richardson (1829: 175); Gray (1843: 145); (Preble, 1908: 166)
Rodentia: Sciuridae	<i>Tamias quadrivittatus</i> (Say, 1823)		<i>Tamias minimus</i> Bachman, 1839	skin, skull in skin	NHMUK 1842.12.9.18	Richardson (1829: 184); Gray (1843: 145); Thomas (catalogue):297
Rodentia: Sciuridae	<i>Tamias quadrivittatus</i>		<i>Tamias minimus</i>	skin, skull in skin	NHMUK 1842.10.7.3	Richardson (1829: 184); Gray (1843: 145)
Rodentia: Cricetidae	<i>Arvicola noveboracensis</i> (Rafinesque, 1820)		<i>Microtus pennsylvanicus</i> (Ord, 1815)	skin, skull in skin	NHMUK 1842.10.7.9	Richardson (1829: 126); Gray (1843: 119); Thomas (catalogue):267
Rodentia: Cricetidae	<i>Arvicola riparius</i> Ord, 1825		<i>Microtus pennsylvanicus</i>	skin, skull in skin	NHMUK 1842.10.7.7	Richardson (1829: 120); Gray (1843: 117); Thomas (catalogue):267; Preble (1908: 190)
Rodentia: Cricetidae	<i>Arvicola xanthognathus</i> Leach, 1815		<i>Microtus xanthognathus</i>	skin, skull in skin	NHMUK GMCM Glires 132a	Richardson (1829: 123); Gray (1843: 118)
Rodentia: Cricetidae	<i>Arvicola (Lemmus) helvolus</i> Richardson, 1828	Holotype	<i>Lemmus trimucronatus</i> (Richardson, 1825)	skin, skull	NHMUK 1842.10.7.11	Description Richardson (1828: 517); Richardson (1829: 128); Gray (1843:120); Thomas (catalogue):412; Preble (1908: 182)

Rodentia: Cricetidae	<i>Myoxus drummondi</i> Richardson, 1828	Holotype	<i>Neotoma cinerea</i> (Ord, 1815)	skin, skull	NHMUK 1842.10.7.6	Description Richardson (1828: 517); Richardson (1829: 137); Gray (1843: 117); Thomas (catalogue):398; Preble (1908: 176); Goldman (1910: 99)
----------------------	--	----------	------------------------------------	-------------	-------------------	--

### North America: USA

Didelphimorphia: Didelphidae	<i>Didelphis virginiana</i> Kerr, 1792		<i>Didelphis virginiana</i>	skin, skull	NHMUK GMCM Ferae 155b; GERM 317h	Gray (1843: 100); Thomas (1888: 327)
Didelphimorphia: Didelphidae	<i>Didelphis virginiana</i>		<i>Didelphis virginiana</i>	untraced	NHMUK GMCM Ferae 155a	Gray (1843: 100)
Chiroptera: Vespertilionidae	<i>Lasiurus pruinosus</i> Say, 1823		<i>Lasiurus seminolus</i> (Rhoads, 1895)	skin, skull in skin	NHMUK 1837.4.8.124 (624)	Gray (1843: 32); Dobson (1878:271)
Chiroptera: Vespertilionidae	<i>Lasiurus pruinosus</i>		<i>Lasiurus seminolus</i>	skin, skull in skin	NHMUK 1837.4.8.125 (628)	Gray (1843: 32); Dobson (1878:271)
Carnivora: Mephitidae	<i>Mephitis varians</i> Gray, 1837		<i>Mephitis mephitis</i> (Schreber, 1776)	untraced	NHMUK GMCM Ferae 153a	Gray (1843: 69)
Carnivora: Mephitidae	<i>Mephitis varians</i>		<i>Mephitis mephitis</i>	skin, skull	NHMUK 1837.4.8.115 (615); 1848.12.26.2	Gray (1843: 69); Thomas (catalogue):176b
Carnivora: Mephitidae	<i>Mephitis varians</i>		<i>Mephitis mephitis</i>	skin	NHMUK 1839.7.25.7	Gray (1843: 69); Thomas (catalogue):176
Carnivora: Procyonidae	<i>Procyon lotor</i> (Linnaeus, 1758)		<i>Procyon lotor</i>	skin, skull in skin	NHMUK 1837.4.8.116 (616)	Gray (1843: 74); Thomas (catalogue):306
Lagomorpha: Leporidae	<i>Lepus douglasii</i> Gray, 1837	Lectotype	<i>Sylvilagus palustris</i> (Bachman, 1837)	skin, skull	NHMUK GMCM Glires 92a	Description Gray (1837: 586); Thomas (catalogue):387; Thomas (1927: 554)
Lagomorpha: Leporidae	<i>Lepus douglasii</i>	Paralectotype	<i>Sylvilagus palustris</i>	skin, skull	NHMUK GMCM Glires 92b	Description Gray (1837: 586); Thomas (catalogue):387; Thomas (1927: 554)
Rodentia: Sciuridae	<i>Sciurus carolinensis</i> Gmelin, 1788		<i>Sciurus carolinensis</i>	skin, skull in skin	NHMUK GMCM Glires 104a	Gray (1843: 138); Thomas (catalogue):228

Rodentia: Sciuridae	<i>Sciurus ludovicianus</i> Custis, 1806		<i>Sciurus niger</i> Linnaeus, 1758	skin, skull in skin	NHMUK GMCM Glires 83b	Gray (1843: 138); Thomas (catalogue):232
Rodentia: Sciuridae	<i>Sciurus</i>		<i>Sciurus</i>	untraced	NHMUK 1837.4.8.114 (614)	
Rodentia: Cricetidae	<i>Neotoma floridana</i> (Ord, 1818)		<i>Neotoma floridana</i>	skin, skull in skin	NHMUK GMCM Glires 130a	Gray (1843: 117); Thomas (catalogue):394

#### North America: no details

Chiroptera: Vespertilionidae	<i>Lasiurus pruinosus</i>		<i>Lasiurus cinereus?</i> (Palisot de Beauvois, 1796)	untraced	NHMUK 1837.4.8.119 (619)	Gray (1843: 32)
Chiroptera: Vespertilionidae	<i>Vespertilio carol</i> Temminck, 1840i		<i>Myotis lucifugus?</i> (Le Conte, 1831)	untraced	NHMUK 1837.4.8.126 (626)	Richardson (1829: 3-4); Gray (1843: 26)
Chiroptera: Vespertilionidae	<i>Vespertilio caroli</i>		<i>Myotis austroriparius</i> (Rhoads, 1897)	skin, skull in skin	NHMUK 1837.4.8.127 (627)	Gray (1843: 26); Miller and Allen (1928)
Carnivora: Procyonidae	<i>Procyon lotor</i>		<i>Procyon lotor</i>	untraced	NHMUK GMCM Ferae 92c	Gray (1843: 74); Thomas (catalogue):306
Rodentia: Sciuridae	<i>Arctomys empetra</i>		<i>Marmota monax</i>	skin, skull in skin	NHMUK 1842.12.9.10	Richardson (1829: 147)
Rodentia: Sciuridae	<i>Arctomys empetra</i>		<i>Marmota monax</i>	skin, skull in skin	NHMUK 1842.12.9.11	Richardson (1829: 147)
Rodentia: Cricetidae	<i>Mynomys riparius</i>		<i>Microtus pennsylvanicus</i>	untraced	NHMUK GMCM Glires 97b	Gray (1843: 117); Thomas (catalogue):267
Rodentia: Cricetidae	<i>Arvicola riparius</i>		<i>Microtus pennsylvanicus</i>	skin, skull	NHMUK 1842.12.9.21	Thomas (catalogue):267

Rodentia: Cricetidae	<i>Mus leucogaster</i>		<i>Peromyscus leucopus?</i> (Rafinesque, 1818)	duplicate	NHMUK 1837.4.8.120 (620)	Gray (1843: 112); Thomas (catalogue):189
Rodentia: Cricetidae	<i>Mus leucogaster</i>		<i>Peromyscus leucopus?</i>	Duplicate	NHMUK 1837.4.8.121 (621)	Gray (1843: 112); Thomas (catalogue):189
Rodentia: Cricetidae	<i>Mus leucogaster</i>		<i>Peromyscus leucopus?</i>	duplicate	NHMUK 1837.4.8.122 (622)	Gray (1843: 112); Thomas (catalogue):189
Rodentia: Cricetidae	<i>Mus leucogaster</i>		<i>Reithrodontomys</i>	skin, skull in skin	NHMUK 1837.4.8.123 (623)	Gray (1843: 112); Thomas (catalogue):189

**Table 2.** Comparison of NHMUK 1837.4.8.127 with three species of *Myotis*. Morphological characters, forearm length and greatest skull length of the three species of *Myotis* are taken from Miller and Allen (1928), LaVal (1970), Fenton and Barclay (1980), Jones and Manning (1989), Braun et al. (2015) and comparative material in NHM. The forearm measurement of 1837.4.8.127 was taken from Miller and Allan (1928). The cranial measurements of 1837.4.8.127 are derived from scans of the specimen as defined in the text and are comparable to the measurements in Miller and Allen (1928) unless indicated thus: \*. Geographical ranges are taken from LaVal (1970), Fenton and Barclay (1980), Jones and Manning (1989), Simmons (2005), Olson et al. (2014), Braun et al. (2015) and Vonhof et al. (2015).

Character	<i>Myotis lucifugus</i> (Le Conte, 1831)	<i>Myotis yumanensis</i> (H. Allen, 1864)	<i>Myotis austroriparius</i> (Rhoads, 1897)	1837.4.8.127
Calcar	Calcar lacking keel, or keel very weakly developed	Calcar lacking keel, or keel very weakly developed	Calcar lacking keel, or keel very weakly developed	Calcar lacking keel
Sagittal crest	Absent	Absent	Low but definite and sharp-edged sagittal crest usually present	Present
Dorsal pelage	Silky; glossy; hairs with burnished tips	Silky; dull; hairs lacking burnished tips	Dense; woolly; hairs lacking burnished tips	Dense; dull /drab; hairs without contrasting tips
Forearm length	Usually > 35 (33 – 41)	Usually < 35 (32 – 38)	33 – 40 (mean 36.0 in males, 38.6 in females)	38.8
Greatest length of skull	Usually >14 (14.3 - 15.3)	Usually <14 (13.2 – 14.2)	13.5 – 15.2	Skull too damaged

Skull profile	Slopes gradually from rostrum to braincase	Slopes steeply from rostrum to braincase	Slopes abruptly from rostrum to braincase	Skull too damaged
Maxillary toothrow length	5.0 – 5.6	5.0 – 5.2	5.0 – 5.6	5.39
Maxillary breadth at M3	5.4 – 6.1	5.0 – 5.6	5.6 – 6.0	5.54
Mandible length	10.1 – 11.0	9.4 – 10.0	10.0 – 11.0	10.39*
Mandibular toothrow length	5.4 – 6.0	5.2 – 5.6	5.4 – 6.2	5.69
Geographical range	Alaska to Labrador and Newfoundland, south to S California, N Arizona, N New Mexico	Mexico N to Alaska and British Columbia, E to Montana and W Texas	SE USA: Florida north to Indiana, Illinois and N Carolina, W to NE Texas and SE Oklahoma	