

ORDER PERISSODACTYLA

ISIS NUMBER: 530141800000000000.

Family Equidae

REVIEWED BY: D. K. Bennett (DKB); C. R. Durst (CRD); C. P. Groves (CPG); P. Grubb (PG); I. U. Kohler (IUK); O. L. Rossolimo (OLR)(U.S.S.R.); A. C. Ziegler (ACZ).

ISIS NUMBER: 530141800100000000.

Equus Linnaeus, 1758. Syst. Nat., 10th ed., 1:73.

COMMENT: Recent and fossil forms revised by Bennett, 1980, Syst. Zool., 29:272-287; subgenera reviewed by Groves and Willoughby, 1981, Mammalia, 45:321-354.

ISIS NUMBER: 5301418001001000000.

Equus asinus Linnaeus, 1758. Syst. Nat., 10th ed., 1:73.

TYPE LOCALITY: "Southern Asia" (domesticated stock).

DISTRIBUTION: Formerly N.W. Algeria, adjacent Morocco and Tunisia; Egypt; perhaps Arabia; N.E. Sudan; survives only in N.E. Ethiopia and N. Somalia; domesticated worldwide.

COMMENT: Ansell, 1974, Part 14:6, recommended *africanus* replace *asinus*, because domesticated stock was used for the type material; also see Corbet, 1978:195.

PROTECTED STATUS: U.S. ESA - Endangered as *E. africanus* (= *asinus*).

ISIS NUMBER: 5301418001001001001.

Equus burchelli (Gray, 1824). Zool. J., 1:247.

TYPE LOCALITY: South Africa, Bechuanaland, Little Klipbolikhoni Fontein.

DISTRIBUTION: Blue Nile to Orange River, including S.W. Somalia and S.W. Ethiopia, to S. Africa to S.E. Zaire and S. and E. Angola.

COMMENT: Does not include the extinct species, *quagga*; see Bennett, 1980, Syst. Zool., 29:272-287; Groves and Willoughby, 1981, Mammalia, 45:321-354. Many previous workers regarded *quagga* and *burchelli* as conspecific; see Rau, 1978, Ann. S. Afr. Mus., 77. At least 21 synonyms of *burchelli* exist, most based on variations in stripe pattern. Cabrera, 1936, J. Mamm., 17:89-112, synonymized most forms and demonstrated a cline in stripe pattern. Reviewed by Grubb, 1981, Mamm. Species, 157:1-9.

ISIS NUMBER: 5301418001001002001.

Equus caballus Linnaeus, 1758. Syst. Nat., 10th ed., 1:73.

TYPE LOCALITY: Norway (domesticated stock).

DISTRIBUTION: Domesticated worldwide; wild population survived (at least until recently) in S.W. Mongolia and adjacent Kansu, Sinkiang and Inner Mongolia (China)(SW). West to Poland before the 19th Century, in steppe zone.

COMMENT: Groves, 1971, Bull. Zool. Nomencl., 27:269-272., and Corbet, 1978:194, have proposed that *ferus* replace *caballus*, objecting to use of domesticated stock for type material. Includes *przewalskii*; despite different chromosome numbers (Benirschke *et al.*, 1972, Science, 148:382-383), the fundamental chromosome number of Przewalski and domestic horses is the same and matings produce fertile offspring; therefore, DKB and IUK consider them conspecific. Gromov and Baranova, 1981:333-334, recognized the two as separate species and used the names *gmelini* and *przewalskii*. See Sokolov and Orlov, 1980:249 for discussion of Mongolian and Chinese wild stocks.

PROTECTED STATUS: CITES - Appendix I and U.S. ESA - Endangered as *Equus przewalskii* only.

ISIS NUMBER: 5301418001001003001 as *E. caballus*.

5301418001001006001 as *E. przewalskii*.

Equus grevyi Oustalet, 1882. La Nature (Paris), 10(2):12.

TYPE LOCALITY: Ethiopia (=Abyssinian desert), Galla Country.

DISTRIBUTION: Dry desert regions of N. Kenya; S. Somalia; S. and E. Ethiopia.

COMMENT: More different synonymous subgenera (at least five) have been erected to accommodate this monotypic species and its close fossil relatives than any other *Equus* species (DKB); see also Groves and Willoughby, 1981, Mammalia, 45:321-354. Threatened with extinction, except in Kenya (CPG).

PROTECTED STATUS: CITES - Appendix I and U.S. ESA - Threatened.

ISIS NUMBER: 5301418001001004001.

Equus hemionus Pallas, 1775. Nova Comm. Acad. Sci. Petrop., 19:397.

TYPE LOCALITY: U.S.S.R., Transbaikalia, S. Chitinsk. Obl., Tarei-Nor, 50° N, 115° E.

DISTRIBUTION: Formerly much of Mongolia, north to Transbaikalia (U.S.S.R.); east to N.E. Inner Mongolia (China) and possibly W. Manchuria (China); west to Dzhungarian Gate. Survives in S.W. and S.C. Mongolia and adjacent China; see Sokolov and Orlov, 1980:248.

COMMENT: Includes *luteus* (DKB). Groves and Mazak, 1967, Z. Saugetierk., 32:321-355, Corbet, 1978:194, and Gromov and Baranova, 1981:335, included *onager* in this species, but Bennett, 1980, Syst. Zool., 29:272-287, considered it a distinct species. See Sokolov and Orlov, 1980:248 for discussion of Mongolian and Chinese stocks.

PROTECTED STATUS: CITES - Appendix II and U.S. ESA - Endangered as *E. hemionus*.

CITES - Appendix I as *E. h. hemionus* subspecies only.

ISIS NUMBER: 5301418001001005001.

Equus kiang Moorcroft, 1841. Travels in the Himalayan Provinces, 1:312.

TYPE LOCALITY: India, Kashmir, Ladakh.

DISTRIBUTION: Populations exist in dry, intermontane basins of Ladakh (India); Tibet, Tsinghai, Szechwan (China) and adjacent Nepal and Sikkim.

COMMENT: Groves and Mazak, 1967, Z. Saugetierk., 32:321-355; Corbet, 1978:195; and Bennett, 1980, Syst. Zool., 29:272-287, recommended separating *kiang* from *hemionus*.

Equus onager Boddaert, 1785. Elench. Anim., p. 60.

TYPE LOCALITY: N.W. Persia (=Iran), Kasbin, near Caspian.

DISTRIBUTION: Formerly much of Central Asian republics (U.S.S.R.) north to upper Irtysh and Ural Rivers; westward north of the Caucasus and Black Sea at least to Dniestr River; and S.E. of Caspian Sea, Anatolia, N. Iraq, Iran, Afghanistan, and Pakistan to Thar Desert of N.W. India; survives as isolated populations in Rann of Kutch (India), Badkhyz Preserve, Turkmenia (U.S.S.R.); and central Iran; also reestablished on Barsa-khelmes Isl. (Aral Sea) (U.S.S.R.).

COMMENT: Includes *hemippus*, *khur*, and *kulan* (DKB); most previous workers regarded *onager* as a synonym of *hemionus*, but Bennett, 1980, Syst. Zool., 29:272-287, considered it a distinct species; see comments under *hemionus*.

PROTECTED STATUS: CITES - Appendix I as *E. hemionus khur* subspecies only.

Equus quagga Gmelin, 1788. In Linnaeus, Syst. Nat., 13th ed., 1:213.

TYPE LOCALITY: South Africa.

DISTRIBUTION: South Africa, south of the Vaal River.

COMMENT: Extinct; last specimen, a captive, died in 1872. See also comments under *burchelli*.

Equus zebra Linnaeus, 1758. Syst. Nat., 10th ed., 1:74.

TYPE LOCALITY: South Africa, S.W. Cape Prov., Paardeburg, near Malmesbury.

DISTRIBUTION: Formerly in S. Angola; Namibia; S.W. and S.C. Cape Prov. (South Africa).

COMMENT: *E. z. zebra* is nearly extinct in the wild; recent counts indicate fewer than 70 alive in their habitat within remote mountain basins of the Cape Province, South Africa.

PROTECTED STATUS: CITES - Appendix I and U.S. ESA - Endangered as *E. z. zebra* subspecies only.

CITES - Appendix II as *E. z. hartmannae* subspecies only.

ISIS NUMBER: 5301418001001007001.

Family Tapiridae

REVIEWED BY: C. R. Durst (CRD); C. P. Groves (CPG); J. Ramirez-Pulido (JRP).
 ISIS NUMBER: 5301418002000000000.

Tapirus Brunnich, 1772. Zool. Fundamenta, pp. 44, 45.
 ISIS NUMBER: 5301418002001000000.

Tapirus bairdii (Gill, 1865). Proc. Acad. Nat. Sci. Phila., 17:183.
 TYPE LOCALITY: Panama, Isthmus of Panama.

DISTRIBUTION: S. Veracruz and S. Oaxaca (Mexico) east of Isthmus of Tehuantepec to Colombia west of the Rio Cauca and Ecuador west of the Andes to the Gulf of Guayaquil.

COMMENT: Revised by Hershkovitz, 1954, Proc. U.S. Nat. Mus., 103:465-496. Type locality restricted by Hershkovitz, 1954, Proc. U.S. Nat. Mus., 103:465-496, to Canal Zone.

PROTECTED STATUS: CITES - Appendix I and U.S. ESA - Endangered.
 ISIS NUMBER: 5301418002001001001 as *T. bairdi* (sic).

Tapirus indicus Desmarest, 1819. Nouv. Dict. Hist. Nat., 32:458.
 TYPE LOCALITY: Malaysia, Malay Peninsula.

DISTRIBUTION: Burma and Thailand south of 18° N., south through Malay Peninsula; Sumatra. Formerly, S. China, and probably parts of Kampuchea, Laos, and Vietnam.

PROTECTED STATUS: CITES - Appendix I and U.S. ESA - Endangered.
 ISIS NUMBER: 5301418002001002001.

Tapirus pinchaque (Roulin, 1829). Ann. Sci. Nat. Zool., 18:46.
 TYPE LOCALITY: Colombia, Cundinamarca, Paramo de Sumapaz.

DISTRIBUTION: Andes of Colombia; Ecuador; perhaps W. Venezuela and N. Peru.
 COMMENT: Revised by Hershkovitz, 1954, Proc. U.S. Nat. Mus., 103:465-496.

PROTECTED STATUS: CITES - Appendix I and U.S. ESA - Endangered.
 ISIS NUMBER: 5301418002001003001.

Tapirus terrestris (Linnaeus, 1758). Syst. Nat., 10th ed., 1:74.
 TYPE LOCALITY: Brazil, Pernambuco.

DISTRIBUTION: Venezuela and Colombia south to S. Brazil, N. Argentina and Paraguay, mostly east of the Andes.

COMMENT: Revised by Hershkovitz, 1954, Proc. U.S. Nat. Mus., 103:465-496.
 PROTECTED STATUS: CITES - Appendix II and U.S. ESA - Endangered.
 ISIS NUMBER: 5301418002001004001.

Family Rhinocerotidae

REVIEWED BY: C. R. Durst (CRD); C. P. Groves (CPG); B. R. Stein (BRS).
 PROTECTED STATUS: CITES - Appendix I as Rhinocerotidae.
 ISIS NUMBER: 5301418003000000000.

Ceratotherium Gray, 1868. Proc. Zool. Soc. Lond., 1867:1027.
 PROTECTED STATUS: CITES - Appendix I as Rhinocerotidae.
 ISIS NUMBER: 5301418003001000000.

Ceratotherium simum (Burchell, 1817). Bull. Sci. Soc. Philom. Paris, p. 97.

TYPE LOCALITY: Botswana, Makuba Range, Chue Spring (about 26° 15' S, 23° 10' E).

DISTRIBUTION: Formerly much of N.W. Africa; Nile Valley; C. Africa between Lake Chad and White Nile River; perhaps portions of E. Africa; S. Africa south of the Zambezi River (except in W. Zambia, where it perhaps occurred between the Mashi and Zambezi rivers), south to Orange River, and west to E. Namibia. Survives mostly as scattered populations in reserves in South Africa, Zimbabwe, Mozambique, Uganda, Zaire, and S. Sudan. Extinct in N.W. Africa and lower Nile Valley.

COMMENT: Reviewed by Groves, 1972, Mamm. Species, 8:1-6. Revised by Groves, 1975, Saugetierk. Mitt., 23:200-212.

PROTECTED STATUS: CITES - Appendix I as Rhinocerotidae.

CITES - Appendix I and U.S. ESA - Endangered as *C. s. cottoni* subspecies only.

ISIS NUMBER: 5301418003001001001.

Dicerorhinus Gloger, 1841. Hand. Hilfsb. Nat., p. 125.

COMMENT: *Didermocerus* Brookes, 1828, has been rejected, and *Dicerorhinus* validated;
Bull. Zool. Nomencl., 34:21-24.

PROTECTED STATUS: CITES - Appendix I as Rhinocerotidae.

ISIS NUMBER: 5301418003003000000 as *Didermocerus*.

Dicerorhinus sumatrensis (Fischer, 1814). Zoognosia, 3:301.

TYPE LOCALITY: Indonesia, Sumatra, Bencoolen (=Bintuhan) Dist., Fort Marlborough.

DISTRIBUTION: Formerly Assam (India), Chittagong Hills (Bangladesh), Burma, Thailand, and Vietnam south through Malay Peninsula to Sumatra; probably also S. China, Laos, and Cambodia (Kampuchea); Borneo; Mergui Isl. Survives in Tenasserim Range (Thailand-Burma), Petchabun Range (Thailand); and other scattered localities in Burma, Malay Peninsula, Sumatra, and Borneo.

COMMENT: Reviewed by Groves and Kurt, 1972, Mamm. Species, 21:1-6. Revised by Groves, 1967, Saugetierk. Mitt., 15:221-237.

PROTECTED STATUS: CITES - Appendix I as Rhinocerotidae and U.S. ESA - Endangered as *Dicerorhinus* (= *Didermocerus*) *sumatrensis*.

ISIS NUMBER: 5301418003003001001 as *Didermocerus sumatrensis*.

Diceros Gray, 1821. Lond. Med. Repos., 15:306.

PROTECTED STATUS: CITES - Appendix I as Rhinocerotidae.

ISIS NUMBER: 5301418003002000000.

Diceros bicornis (Linnaeus, 1758). Syst. Nat., 10th ed., 1:56.

TYPE LOCALITY: South Africa, Cape Prov. (= "India").

DISTRIBUTION: Formerly in suitable open habitats in Africa south of about 10° N. from Chad, S. Sudan and N. Somalia, and from Angola, south to Cape Province (South Africa). Survives in reserves and relatively undisturbed areas in much of the northern three-quarters of its historic range, and in places, to South Africa.

PROTECTED STATUS: CITES - Appendix I as Rhinocerotidae and U.S. ESA - Endangered.

ISIS NUMBER: 5301418003002001001.

Rhinoceros Linnaeus, 1758. Syst. Nat., 10th ed., 1:56.

PROTECTED STATUS: CITES - Appendix I as Rhinocerotidae.

ISIS NUMBER: 5301418003004000000.

Rhinoceros sondaicus Desmarest, 1822. Mammalogie, 2:399.

TYPE LOCALITY: Probably Java (Indonesia).

DISTRIBUTION: Formerly Bangladesh, Burma, Thailand, Laos, Kampuchea, Vietnam, and probably S. China through Malay Peninsula to Sumatra and Java. Survives in Ujung Kulon (W. Java), and perhaps in small areas of Burma, Thailand, Laos, and Kampuchea.

COMMENT: Revised by Groves, 1967, Saugetierk. Mitt., 15:221-237.

PROTECTED STATUS: CITES - Appendix I as Rhinocerotidae and U.S. ESA - Endangered.

ISIS NUMBER: 5301418003004001001.

Rhinoceros unicornis Linnaeus, 1758. Syst. Nat., 10th ed., 1:56.

TYPE LOCALITY: India, Assam, Terai.

DISTRIBUTION: Formerly Indus Valley, Gangetic Plain, Brahmaputra Valley, and Himalayan foothills from Pakistan to Assam (India). Survives in reserves in Nepal and Assam; perhaps Bangladesh.

PROTECTED STATUS: CITES - Appendix I as Rhinocerotidae and U.S. ESA - Endangered.

ISIS NUMBER: 5301418003004002001.