

A Supplemental Bibliography of Herpetology in New Mexico

--- Revised: 1 September 2005 ---

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This document may be cited as:

Stuart, J.N. 2005. A Supplemental Bibliography of Herpetology in New Mexico. Web publication (Revised: 1 September 2005): http://www.msb.unm.edu/herpetology/publications/stuart_supl_biblio.pdf

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Section 1: Introduction and Acknowledgments

The publication of *Amphibians and Reptiles of New Mexico* by W.G. Degenhardt, C.W. Painter, and A.H. Price in 1996 provided the first comprehensive review of the herpetofauna in New Mexico. Approximately 1,600 references were cited in the book and yet, as is the nature of scientific research, additional information continues to be published on the amphibian and reptile populations of this state. This supplemental bibliography was created to build on the information in Degenhardt et al. by compiling all pertinent references not included in their 1996 book or in their corrigenda to the book (Price et al. 1996). References include both peer-reviewed and non-reviewed (e.g., "gray literature") sources such as journal and magazine articles, books, book chapters, symposium proceedings, doctoral dissertations, master's theses, unpublished agency and contract reports, and on-line Web publications.

To be included in this bibliography, a reference had to be relevant (at least in part) to one or more of the Recent species of amphibians and reptiles of New Mexico. (Some references concerning fossil remains of modern species, and a few extinct taxa, are also included and cited under this topic in Section 3.) Most of the references appeared in print after *Amphibians and Reptiles of New Mexico* went to press in mid-1995; others that are pre-1995 were either omitted or overlooked during preparation of the book.

Inclusion of some references was subjective, although the intent during compilation was to be more inclusive than exclusive. For example, some references (e.g., systematic or taxonomic papers) may not directly pertain to New Mexico populations but are nonetheless relevant to species and subspecies that occur in the state. Other references concern populations in adjacent U.S. or Mexican states, but near the New Mexico border (and therefore are likely relevant to nearby New Mexico populations). For a few references, specific geographic information was not provided. Still others are popular articles that may be more of historical interest than scientific.

In general, scientific names follow the taxonomy used by Degenhardt et al. (1996), with modifications based on names used by the Committee on Standard English and Scientific Names (2000 [2001]) and Crother et al. (2003). See Appendix A for a checklist of scientific and English common names derived from the latter two publications. A few common synonyms of species and genera are included in Section 3 and refer the user to the scientific name employed in this bibliography.

Although this is not a true annotated bibliography, brief notes have been included for almost every reference and appear in brackets following the citation. In general, these notes merely supplement the information provided in the reference's title and may assist the user in conducting word searches on scientific names or subjects that are not identified in the title.

This supplemental bibliography is available as a PDF document on the Web, courtesy of the Division of Amphibians and Reptiles, Museum of Southwestern Biology (MSB), University of New Mexico (go to <<http://www.msb.unm.edu/herpetology/>> under "Publications"). The bibliography is a work in progress and will be updated periodically as new literature is published, older literature is located, errors are corrected, and references are examined. Feedback from users is strongly encouraged and will be acknowledged. Please send comments on errors, omissions, citation inconsistencies, and ways to improve this document to the address provided above.

Acknowledgments – I thank J. Tomasz Giermakowski of the MSB for his technical assistance in putting this document on the Web; and Charles Painter for his constructive comments on earlier versions. The following individuals have provided references, corrections, recommendations, and other assistance in updating and improving this bibliography: Breck Bartholomew (including resources he has provided on his Bibliomania! website, <http://www.herplit.com>), Ellin Beltz, Christopher K. Borg, Charles C. Carpenter, Geoff Carpenter, Brian Hubbs, Fred Janzen, Travis J. LaDuc, Joel D. Lusk, Charles W. Painter, Leland J.S. Pierce, Andrew H. Price, Kevin de Queiroz, Norman J. Scott, Jr., Wade C. Sherbrooke, and Naida Zucker. Bibliographies of references pertaining to *Plethodon neomexicanus* by Altenbach and Painter (1998) and southern New Mexico herpetofauna by Roger Steeb (<http://lib.nmsu.edu/resources/guides/plants/repamph.htm>) yielded many citations that have been incorporated here.

Section 2: Alphabetical List of References

An asterisk (*) indicates that a reference has not been examined and therefore has possibly not been properly indexed in Section 3, except based on information in the reference's title. This deficiency will be corrected in future versions of this bibliography. References that refer to a large number of species (such as regional surveys) are not cited under each individual species in Section 3, but rather under "All NM Species" or one of the General Topics in Section 3. Brief notes concerning each reference are provided in brackets following the citation.

- Abell, A.J. 1998. Phenotypic correlates of male survivorship and reproductive success in the striped plateau lizard, *Sceloporus virgatus*. Herpetol. J. 8(4):173-180. [Chiricahua Mts., AZ]
- Abell, A.J. 1999. Removal of an evolutionarily-reduced color signal, and restoration of the signal to the ancestral state, influence male-male interactions in the striped plateau lizard, *Sceloporus virgatus*. Bull. Maryland Herpetol. Soc. 35(4):115-142. [locality data for specimens not provided]
- Adler, K. 1979. A brief history of herpetology in North America before 1900. SSAR Herpetol. Circ. No. 8, 40 pp. [includes historical narrative of explorations/collections in SW US]
- Alberico, M.S. 1978. Notes on reproduction in *Lampropeltis getulus* from southern New Mexico. Bull. Maryland Herpetol. Soc. 14(4):264-265. [*L. getula*]
- Aldridge, R.D. 2001. Reproductive anatomy, mating season and cost of reproduction in the glossy snake (*Arizona elegans*). Amphibia-Reptilia 22:243-249. [primarily NM specimens]
- Altenbach, M.J. and C.W. Painter. 1998. A bibliography and review of the Jemez Mountains salamander, *Plethodon neomexicanus*, 1913-1998. New Mexico Naturalist's Notes 1(2):46-82. [annotated list of references, including unpublished reports]
- Altig, R., R.W. McDiarmid, K.A. Nichols, and P.C. Ustach. 1998. A key to the anuran tadpoles of the United States and Canada. Contemporary Herpetol. Inform. Ser. 1998(2). <http://www.cnah.org/ch/chis/1998/2/index.htm> [dichotomous key including photos; all NM spp.]
- Anderson, A.M. 1997. Habitat use and diet of amphibians breeding in playa wetlands on the Southern High Plains of Texas. M.Sci. thesis, Texas Tech Univ., Lubbock. xv + 118 pp. [TX panhandle; *Ambystoma tigrinum*, *Acris crepitans*, *Gastrophryne olivacea*, *Rana blairi*, *Bufo cognatus*, *B. speciosus*, *B. woodhousii*, *Scaphiopus couchii*, *Spea multiplicata*, *S. bombifrons*]
- Anderson, A.M., D.A. Haukos, and J.T. Anderson. 1999a. Diet composition of three anurans from the playa wetlands of northwest Texas. Copeia 1999(2):515-520. [*Bufo cognatus*, *Spea bombifrons*, *S. multiplicata*, Southern High Plains]
- Anderson, A.M., D.A. Haukos, and J.T. Anderson. 1999b. Habitat use by anurans emerging and breeding in playa wetlands. Wildl. Soc. Bull. 27(3):759-769. [TX panhandle, Southern High Plains; *Gastrophryne olivacea*, *Bufo cognatus*, *B. speciosus*, *Spea bombifrons*, *S. multiplicata*]
- Anderson, R.E. 1995. Geographic distribution: *Elaphe guttata emoryi* (Great Plains Rat Snake). Herpetol. Rev. 26(4):210. [Socorro Co.]
- *Anderson, R.E. 1996. Biochemical systematics of *Coluber constrictor*. M.Sci. thesis, Southeastern Louisiana Univ., Hammond. [not examined; considers status of *C. c. mormon*]
- Anonymous. 1963. A monster named Gila. New Mexico Wildl. 8(3):11. [*Heloderma suspectum*; brief article with photo]
- Anonymous. 1985. Recovery plan: New Mexico ridge-nosed rattlesnake (*Crotalus willardi obscurus*). U.S. Fish and Wildl. Serv. End. Species Tech. Bull. 10(12):8-9. [brief summary of plan by Baltosser & Hubbard]
- Anonymous. 1989. All-female lizards are rare in U.S. New Mexico Wildl. 34(3):31-32. [*Cnemidophorus dixonii*; Peloncillo Mountains]

- Anonymous. 1992. Salamander update. *New Mexico Wildl.* 37(3):18. [brief summary of Fish and Wildlife Service decision to not list *Plethodon neomexicanus* under Endangered Species Act]
- *Applegarth, J.S. 1969. The variation, distribution, and taxonomy of the eastern fence lizard, *Sceloporus undulatus* Bosc in Latreille, in northeastern New Mexico. M.Sci. thesis, Univ. New Mexico, Albuquerque, 124 pp. [not examined]
- *Applegarth, J.S. 1973. Amphibians and reptiles of McKinley County, New Mexico. Unpubl. report, Dept. Biology, Univ. New Mexico, Albuquerque. 30 pp. [not examined; multiple spp.]
- Applegarth, J.S. 1979a. Environmental implications of herpetofaunal remains from archeological sites west of Carlsbad, New Mexico. Pp. 159-167 in H.H. Genoways and R.J. Baker (eds.), *Biological Investigations in the Guadalupe Mountains National Park, Texas*. Proc. and Trans. Ser., U.S. Natl. Park Serv. No. 4: xviii + 442 pp. [multiple spp.; Eddy Co.]
- Applegarth, J.S. 1979b. Herpetofauna (anurans and lizards) of Eddy County, New Mexico: Quaternary changes and environmental implications. Ph.D. diss., Univ. New Mexico, Albuquerque, xvi + 257 pp. [multiple spp., range maps; fossil records]
- Applegarth, J.S. 1982. Ecological distribution of amphibians and reptiles in three potential silt-control reservoirs on the Rio Puerco (Hidden Mountain site) and Rio Salado (La Jencia and Loma Blanca sites) in west-central New Mexico. Report to U.S. Army Corps Eng., Albuquerque, DACW47-80-M-0529. [Socorro Co.; multiple species]
- Applegarth, J.S. 1983. Status of the leopard frog (*Rana pipiens*) and the painted turtle (*Chrysemys picta*) in the Rio Grande of north-central New Mexico. Report to U.S. Army Corps Eng., Albuquerque, DACW47-80-M-0719. 74 pp. [localities, literature review]
- Applegarth, J.S., H. Alexander, and L.H. Martinez. 1981. Tier 2a Site and Environmental analysis: invertebrates, amphibians, and reptiles of the potential operating base construction facilities near Clovis, New Mexico. Report to U.S. Army Corps of Engineers, Albuquerque, Contract DACW47-81-M-0477. 117 pp. [near Cannon Air Force Base, Curry Co.; multiple spp., detailed locality info]
- Applegarth, J.S., J.C. Bednarz, and M.A. Williamson. 1980. The ridge-nosed rattlesnake in New Mexico: a review of existing information and a search for suitable habitat on public lands. Report to U.S. Bur. Land Management, Las Cruces, 140 pp. [Animas Mts. and area, Hidalgo Co.]
- Artritt, S. 1997. New book released: Amphibians and Reptiles of New Mexico. *New Mexico Wildl.* 42(3):12. [book review]
- Ashton, K.G. 2001. Body size variation among mainland populations of the western rattlesnake (*Crotalus viridis*). *Evolution* 55(12):2523-2533. [includes NM and AZ specimen data; also *C. cerberus*]
- Ashton, K.G. 2003. Sexing *Cnemidophorus* lizards using a postanal scale character. *Herpetol. Rev.* 34(2):109-111. [includes most NM spp., applicable to all; no locality data provided]
- Ashton, K.G. and K. de Queiroz. 2001. Molecular systematics of the western rattlesnake, *Crotalus viridis* (Viperidae), with comments on the utility of the D-loop in phylogenetic studies of snakes. *Molec. Phylogen. Evol.* 21(2):176-189. [proposes *C. v. viridis* plus subsp. *nuntius* are specifically separate from *C. oreganus*, which includes all other subspp., including *cerberus*; NM material included]
- Asplund, K.K. 1974. Body size and habitat utilization in whiptail lizards (*Cnemidophorus*). *Copeia* 1974(3):695-703. [*C. tigris*, near Tucson, AZ and other sites outside NM]
- Austin, S.C. 1996. Ordination analysis of herpetofauna and vegetation relationships on White Sands Missile Range (WSMR), New Mexico. M.Sci. thesis, New Mexico State Univ., Las Cruces. [multiple spp.; *Cnemidophorus* most abundant; no apparent trend between most common shrubs/cacti and herp distrib.; Otero Co. and vicinity]
- Axtell, R.W. 1956. A solution to the long neglected *Holbrookia lacerata* problem, and a description of two new subspecies of *Holbrookia*. *Bull. Chicago Acad.Sci.* 10(11):163-179. [*H. maculata*]
- Axtell, R.W. 1963. A reinterpretation of the distribution of *Bufo w. woodhousei* Girard, especially in the southeastern margin of its range. *Herpetologica* 19:115-122. [*B. woodhousii*]

- Axtell, R.W. 1977. Ancient playas and their influence on the recent herpetofauna of the northern Chihuahua Desert. Pp. 493-512 in R.H. Wauer and D.H. Riskind (eds.), Transactions of the Symposium on the Biological Resources of the Chihuahuan Desert Region, United States and Mexico. U.S. Dept. Interior Natl. Park Serv. Trans. Proc. Ser. 3, 658 pp. [*Chrysemys picta*, *Apalone spinifera*, *Thamnophis sirtalis*]
- Axtell, R.W. 1989. *Crotaphytus collaris*. Interpretive Atlas of Texas Lizards (8):1-38. Privately printed. Southern Illinois Univ., Edwardsville. [distribution in adjacent TX; brief overview of biology]
- Axtell, R.W. 1991. *Cophosaurus texanus*. Interpretive Atlas of Texas Lizards (10):1-41. Privately printed. Southern Illinois Univ., Edwardsville. [distribution in adjacent TX; brief overview of biology]
- Axtell, R.W. 1992. *Sceloporus magister*. Interpretive Atlas of Texas Lizards (12):1-8. Privately printed. Southern Illinois Univ., Edwardsville. [distribution in adjacent TX; brief overview of biology]
- Axtell, R.W. 1994. *Cnemidophorus sexlineatus*. Interpretive Atlas of Texas Lizards (13):1-31. Privately printed. Southern Illinois Univ., Edwardsville. [distribution in adjacent TX; brief overview of biology]
- Axtell, R.W. 1996. *Phrynosoma cornutum*. Interpretive Atlas of Texas Lizards (16):1-52. Privately printed. Southern Illinois Univ., Edwardsville. [distribution in adjacent TX; brief overview of biology]
- Axtell, R.W. 1997. *Urosaurus ornatus*. Interpretive Atlas of Texas Lizards (17):1-29. Privately printed. Southern Illinois Univ., Edwardsville. [distribution in adjacent TX; brief overview of biology]
- Axtell, R.W. 1998. *Holbrookia maculata*. Interpretive Atlas of Texas Lizards (18):1-19. Privately printed. Southern Illinois Univ., Edwardsville. [distribution in adjacent TX; brief overview of biology; *Holbrookia elegans*; record for Hidalgo Co.]
- Axtell, R.W. 2000a. *Eumeces multivirgatus*. Interpretive Atlas of Texas Lizards (23):1-6. Privately printed. Southern Illinois Univ., Edwardsville. [distribution in adjacent TX; brief overview of biology]
- Axtell, R.W. 2000b. *Eumeces obsoletus*. Interpretive Atlas of Texas Lizards (24):1-21. Privately printed. Southern Illinois Univ., Edwardsville. [distribution in adjacent TX; brief overview of biology]
- Axtell, R.W. 2001. *Cnemidophorus uniparens*. Interpretive Atlas of Texas Lizards (26):1-4. Privately printed. Southern Illinois Univ., Edwardsville. [distribution in adjacent TX; brief overview of biology]
- Axtell, R.W. 2003. *Cnemidophorus (Aspidoscelis) exsanguis*. Interpretive Atlas of Texas Lizards (28):1-10 + map. Privately printed. Southern Illinois Univ., Edwardsville. [*Cnemidophorus exsanguis*; distribution in adjacent TX; brief overview of biology; considers *Aspidoscelis* as subgenus]
- Axtell, R.W. and H.M. Smith. 2004. Clarification of name usage for the variable skink, *Eumeces multivirgatus epiplurotus*. Southwest. Nat. 49(1):100. [this name has priority over *E. m. gaigeae*]
- Badman, J.A., L. Neinaber, D.F. DeNardo, and A.T. Holycross. 2003. Milksnakes (*Lampropeltis triangulum*) from Cochise County: notes on captive breeding and pattern. Sonoran Herpetologist 16(2):15. [description of adults and captive young and habitat from SE AZ]
- Bailey, J. and C. Painter. 1994. What good is this lizard? New Mexico Wildl. 39(4):22-23. [conservation of *Sceloporus arenicolus*, Mescalero Sands]
- Bailey, J.A., D.L. Propst, C.W. Painter, C.G. Schmitt, and S.O. Williams, III. 2001. Status of native wildlife in the Middle Rio Grande Valley of New Mexico. New Mexico J. Sci. 41(1):30-49. [checklist and brief discussion of 27 herp spp.]
- Bailey, J.R. 1937. Three additional specimens of *Eumeces gaigei*. Herpetologica 1(3):96. [*E. multivirgatus*; Grant Co.]
- Bailey, V. 1932. Mammals of New Mexico. North Amer. Fauna (53):1-412. [15 *Ambystoma tigrinum* eaten by a coyote in Chuska Mts., p. 320].
- *Baker, R.J., J.J. Bull, and G.A. Mengden. 1971. Chromosomes of *Elaphe subocularis* (Reptilia: Serpentes), with the description of an *in vivo* technique for preparation of snake chromosomes. Experientia 27:1228-1229. [*Bogertophis*; not examined]
- Baker, R.J., G.A. Mengden, and J.J. Bull. 1972. Karyotypic studies of thirty-eight species of North American snakes. Copeia 1972(2):257-265. [many SW specimens, a few from NM; NM spp. =

- Arizona elegans*, *Coluber constrictor*, *Elaphe guttata*, *Bogertophis subocularis*; *Lampropeltis getula*, *alterna*; *Masticophis flagellum*, *taeniatus*; *Pituophis catenifer*, *Salvadora grahamiae*, *Heterodon nasicus*, *Nerodia erythrogaster*; *Thamnophis cyrtopsis*, *sirtalis*, *elegans*, *marcianus*, *proximus*, *radix*, *rufipunctatus*; *Crotalus atrox*, *lepidus*, *molossus*, *viridis*, *scutulatus*; *Sistrurus catenatus*]
- Ballinger, R.E. and J.D. Congdon. 1996. Status of the bunch grass lizard, *Sceloporus scalaris*, in the Chiricahua Mountains of southeastern Arizona. Bull. Maryland Herpetol. Soc. 32(2):67-69. [*S. slevini*; mentions NM populations]
- *Baltosser, W.H. 1980. A biological inventory of endangered species occurring in Guadalupe Canyon (Hidalgo County), New Mexico. Final report to New Mexico Dept. Game and Fish, contract 519-68-06. [not examined; multiple spp.]
- Baltosser, W.H. and J.P. Hubbard. 1985. New Mexican ridgenose rattlesnake recovery plan. U.S. Fish and Wildlife Service, Albuquerque, NM. 59 pp. [*Crotalus willardi*, Animas Mts.]
- Barber, P.H. 1999a. Phylogeography of *Hyla arenicolor* (Cope) based on mitochondrial sequence data. Molec. Ecol. 8(4):547-562. [includes SW NM material; evidence for 3 clades in AZ, 1 in NM and TX; possible cryptic spp.]
- Barber, P.H. 1999b. Population genetic structuring and gene flow in *Hyla arenicolor* (Cope) based on mitochondrial sequence data. Molec. Ecol. 8(4):563-576. [same dataset as Barber 1999a; evidence of major difference in gene flow among populations in SW]
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- Beck, D.D. 2005. Biology of Gila Monsters and Beaded Lizards. Univ. California Press, Berkeley. [*Heloderma suspectum*; natural history, physiology, conservation, folklore]
- Beck, D. and R.D. Jennings. 2003. Habitat use by Gila monsters: the importance of shelters. Herpetol. Monogr. (17):111-129. [radiotelemetry, microhabitat, subsurface refugia at Red Rock, Grant Co.]
- Belcher, A.D. 1995. Book review: *Snakes, Lizards, Turtles, Frogs, Toads and Salamanders of New Mexico* by M.A. Williamson et al. Herpetol. Rev. 26(3):163-164. [coments/corrections]
- *Belfit, S.C. 1978. Endangered amphibians and reptiles of seven southwestern New Mexico counties. Report to U.S. Bur. Land Manage., Las Cruces., NM. [not examined; multiple spp.]
- Belfit, S.C. 1979. Geographic distribution: *Hyla arenicolor* (Canyon Treefrog). Herpetol. Rev. 10(4):118. [Luna Co.]
- Bell, E.L., H.M. Smith, and D. Chiszar. 2003. An annotated list of the species-group names applied to the lizard genus *Sceloporus*. Acta Zool. Mex. (n.s.) 90:103-174. [reviews all spp. and subspp. in NM and elsewhere]
- Beltz, E. 1995. Citations for the original descriptions of North American amphibians and reptiles. SSAR Herpetol. Circ. No. 24. iv + 44 pp. [all NM taxa]
- Beltz, E. 2004. Names of the reptiles and amphibians of North America. Web address: <http://ebeltz.net/herps/etyhome.html>. Periodically revised. [all NM taxa; etymologies, original descriptions]
- Bernard, S.R. and K.F. Brown. 1978. Distribution of mammals, reptiles, and amphibians by BLM physiographic regions and A.W. Kuchler's associations for the eleven western states. U.S. Dept. Interior Tech. Note 301. [multiple spp.]
- Best, T.L. and P.J. Polechla. 1983. Foods of the Texas spotted whiptail lizard (*Cnemidophorus gularis*) in New Mexico. Southwest. Nat. 28(3):376-377. [also of *C. tigris*; both in SE NM]
- Bezy, R.L. and E.F. Anderson. 2002a. Pseudocopulation in the Gila spotted whiptail, *Cnemidophorus flagellicaudus*. Sonoran Herpetologist 15(8):90-91. [Gila Co., AZ]
- Bezy, R.L. and E.F. Anderson. 2002b. Field observations of predation by the Sonoran whipsnake (*Masticophis bilineatus*). Sonoran Herpetologist 16(2):16-17. [AZ; prey include *Sceloporus clarkii*, *Cophosaurus texanus*, *Rana yavapaiensis*]

- Bishop, S.C. and F.J.W. Schmidt. 1931. The painted turtles of the genus *Chrysemys*. Field Mus. Nat. Hist. Publ. Zool. Ser. 18(4):123-139. [defines subspp. in *C. picta*, including *bellii* in NM; no NM material]
- Bishop, S.H. 1943. Handbook of Salamanders: The Salamanders of the United States, of Canada, and of Lower California. Comstock Pub. Co. Inc., Ithaca, New York. 555 pp. [early NM reports of *Ambystoma tigrinum*, *Aneides hardii*, and "*Eurycea multiplicata*" (= *Plethodon neomexicanus*)]
- Black, D. and D.W. Burkett. 2003. Geographic distribution: *Crotalus lepidus* (Rock Rattlesnake). Herpetol. Rev. 34(4):387. [Socorro Co., Mockingbird Mts.]
- Blackshear, S.D. and J.V. Richerson. 1999. Ant diet of the Texas horned lizard (*Phrynosoma cornutum*) from the Chihuahuan Desert. Texas J. Sci. 51(2):147-152. [*Pogonomyrmex* preferred prey]
- Blair, W.F. 1958. Distributional pattern of vertebrates in the southern United States in relation to past and present environments. Pp. 433-468 in C.L. Hubbs (ed.), Zoogeography. Amer. Assoc. Advanc. Sci. Pub. (51): x + 509 pp. [*Plethodon neomexicanus*]
- Blair, W.F. 1960. Mating call as evidence of relations in the *Hyla eximia* group. Southwest. Nat. 5(3):129-135. [*H. eximia* = *wrightorum*; Apache Co., AZ]
- Blanchard, F.N. 1920. A synopsis of the king snakes: genus *Lampropeltis* Fitzinger. Occ. Papers Mus. Zool. Univ. Michigan 87:1-6. [not examined; presumably includes *L. getula*, *triangulum*, *pyromelana*, *alterna*]
- Bleakney, S. 1958. Postglacial dispersal of the turtle *Chrysemys picta*. Herpetologica 14(2):101-104. [NM as a refugium, area of dispersal]
- Bogan, M.A., C.D. Allen, E.H. Muldavin, S.P. Platania, J.N. Stuart, G.H. Farley, P. Mehlhop, and J. Belnap. 1998. Southwest. Pp. 543-592 in M.J. Mac, P.A. Opler, C.E. Puckett Haecker, and P.D. Doran (eds.). Status and Trends of the Nation's Biological Resources. U.S. Dept. of Interior, Geological Survey, Reston, VA. 964 pp. [general overview of some sensitive spp.]
- Bogert, C.M. 1945. Two additional races of the patch-nosed snake, *Salvadora hexalepis*. Amer. Mus. Novit. (1285):1-14. [*S. h. deserticola* briefly discussed as one of 5 subspp.; no NM material; key to subspp.]
- *Bogert, C.M. 1985. [title unavailable]. Snake System. Newsl. Nov. (3). [not examined; discusses *Salvadora deserticola* sp. status]
- Bohonak, A.J. and H.H. Whiteman. 1999. Dispersal of the fairy shrimp *Branchinecta coloradensis* (Anostraca): effects of hydroperiod and salamanders. Limnol. Oceanogr. 44(3):487-493. [*Ambystoma tigrinum* as predator and shrimp vector, central CO]
- Borg, C.K. 2001. Impacts of timber harvest on the endemic Sacramento Mountain salamander, *Aneides hardii* (Caudata: Plethodontidae), in the Southern Rocky Mountains of New Mexico, USA. M. Sci. Thesis, New Mexico State Univ., Las Cruces. 46 pp. [abundance, distribution, microhabitat use, and body condition were assessed]
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- Bounty, J. 1991. A possible native population of the painted turtle, *Chrysemys picta*, in Arizona. Bull. Chicago Herpetol. Soc. 26(2):33. [Lyman Reservoir, in Little Colorado River near NM line]
- Bowker, R.K. 1986. Life history note: *Gerrhonotus kingi* (Arizona Alligator Lizard). Reproduction. Herpetol. Rev. 17(1):20. [copulation in captive *Elgaria kingii*]
- Bradley, G.A., P.C. Rosen, M.J. Sredl, T.R. Jones, and J.E. Longcore. 2002. Chytridiomycosis in native Arizona frogs. J. Wildl. Diseases 38(1):206-212. [*Rana yavapaiensis*, *R. chiricahuensis*, *Hyla arenicolor* infected in AZ with *Batrachochytrium dendrobatidis*]
- Bragg, A.N. 1941. Tadpoles of *Scaphiopus bombifrons* and *Scaphiopus hammondii*. The Wasmann Collector (Wasmann J. Biol.) 4(3):92-94. [*Spea multiplicata*, *S. bombifrons*, Las Vegas, NM area]
- Brandley, M.C., A. Schmitz, and T.W. Reeder. 2005. Partitioned Bayesian analyses, partition choice, and the phylogenetic relationships of scincid lizards. System. Biol. 54(3):373-390. [*Plestiodon* designated to replace *Eumeces* for North Am./east Asian spp.]

- *Brattstrom, B.H. 1963. A preliminary review of the thermal requirements of amphibians. *Ecology* 44(2):241-242. [includes *Plethodon neomexicanus*; not examined]
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Total references: 948

Section 3: Index of References by Taxon or General Topic

References listed in Section 2 are cited alphabetically under each scientific name or topic that was considered in the publication. Scientific names are based on those in Degenhardt et al. (1996), with some modifications derived from Committee on Standard English and Scientific Names (2000 [2001]) and Crother et al. (2003); see Appendix A for names used by the latter two publications. Note that the taxonomy in this section and in Appendix A is not identical. Where more than one scientific name is in current use, the user is referred to the name used in this section of the bibliography. Note that a publication that concerns all New Mexico species is listed under “All NM Spp.” and not under each individual species name; this approach has also been used under each of the major taxonomic groups (e.g., “All NM Spp. of Frogs and Toads”). A publication that concerns a particular geographic area and refers to numerous species may not be cited under each of the taxa but instead cited once under Herpetofaunal Studies by Region or by County.

All NM Spp. of Herpetofauna (including checklists) – Beltz 1995, 2004; Cochran & Goin 1970; Collins 1997; Collins & Taggart 2002; Committee on Standard English and Scientific Names 2000 (2001); Crother et al. 2003; Degenhardt et al. 1996; Powell et al. 1998; Stebbins 2003; Williamson et al. 1994.

All NM Amphibians – Duellman & Sweet 1999.

SALAMANDERS (Caudata)

Family Ambystomatidae

Ambystoma mavortium (see *A. tigrinum*).

Ambystoma tigrinum – Anderson 1997; V. Bailey 1932; Bishop 1943; Bohonak & Whiteman 1999; Burt 1933; Calamusso 1998; Crawford & Wake 1998; Cummer et al. 2003; Delson 1974; Irschick & Shaffer 1997; Jennings 1995; Lannoo & Phillips 2005; Larson et al. 1999; Livo 1998; Petranka 1998; Pierce et al. 1981; Shaffer & McKnight 1996; L.M. Smith et al. 2004; Vaughan 1961; Wissinger et al. 1999; Woodward 1981; Woodward & Johnson 1985.

Family Plethodontidae

Aneides hardii – Bishop 1943; Borg 2001; Degenhardt et al. 1974; Haan & Desmond 2005; Painter et al. 1999b; Mahoney 2001; Meents 1987; Petranka 1998; Ramotnik 1997a-b, 2005; Scott & Ramotnik 1989a-b; Tanner 1978; Williams 1973.

Plethodon neomexicanus – Altenbach & Painter 1998; Anonymous 1992; Bishop 1943; Blair 1958; Brodie 1968, 1970; Burns 1962; Carey 1987; Crippen 1962; Cummer et al. 2003; Degenhardt et al. 1974; Everett 2002; Guthrie 1979; Herrington & Larsen 1985; Highton 1962; Highton & Larson 1979; Ladyman & Altenbach 1998; Livo 1998; MacGregor & Walker 1973; Mahoney 2001; Maxson et al. 1979; Mizuno & MacGregor 1974; New Mexico Department of Game and Fish 1988; New Mexico Endemic Salamander Team 2000; Painter 1989, 1991, 2005c; Painter & Altenbach 1993; Painter et al. 1999b; Panitz 1967; Petranka 1998; Ramotnik 1985, 1986, 1988; Reagan 1967; Scott and Ramotnik 1989; Scott et al. 1987; Shaw 1971, 1972; Tanner 1978; Thurow 1957, 1968; Trippe and Haarman 1996; U.S. Fish and Wildlife Service 1986, 1990, 1992; Wake 1966; Williams 1972, 1973; Williams & Degenhardt 1974; Wiltenmuth 1997.

FROGS and TOADS (Anura)

All NM Spp. of Frogs and Toads – Altig et al. 1998; Davidson 1996.

Family Pelobatidae (= Scaphiopodidae)

Species uncertain – Vaughan 1961.

Scaphiopus couchii – Anderson 1997; Carr & Stuart 1997a; Dimmitt & Ruibal 1980; García-París et al. 2003; Goldberg & Bursey 2005; Goldberg et al. 1995a; Lowe 1954; McAlister 1958(1959); McClanahan 1972; Morey 2005a; Tocque et al. 1995; Woodward 1981, 1982, 1983; Woodward & Johnson 1985; Zweifel 1977.

Spea (both NM spp.) – García-París et al. 2003; Sullivan 1983b; Tanner 1939; Wasserman 1964.

Spea bombifrons – Anderson 1997; Anderson et al. 1999a-b; Bragg 1941; Farrar & Hey 2005; Goldberg & Bursey 2002b; McAlister 1958(1959); Sattler 1985; Woodward 1981; Zweifel 1977.

Spea multiplicata – Anderson 1997; Anderson et al. 1999a-b; Bragg 1941; Burt 1935; Dimmitt & Ruibal 1980; Goldberg et al. 1995a; Lowe 1954; McAlister 1958(1959); Morey 2005b; Sattler 1985; L.M. Smith et al. 2004; Van Devender et al. 1991; Whitford 1969; Whitford & Meltzer 1976; Woodward 1981, 1982; Zweifel 1977.

Family Leptodactylidae

Eleutherodactylus augusti – C. Goldberg 2002; C. Goldberg et al. 2004b; Malone 2001; Murray & Painter 2003a; Radke 2001; Schwalbe & Goldberg 2005.

Hylactophryne (see *Eleutherodactylus*).

Family Bufonidae

Bufo alvarius – Cook et al. 2002; Fouquette et al. 2005; Holycross et al. 1999; Mendelson & Pramuk 1998; Sullivan 2005a.

Bufo boreas – Carey et al. 2005; Goebel 1996, 2005; Livo 1998; Loeffler 2001; Muths & Corn 2000; Muths & Nanjappa 2005; Sullivan 2005a; Woodward & Mitchell 1984.

Bufo cognatus – Anderson 1997; Anderson et al. 1999a-b; Cook et al. 2002; Dimmitt & Ruibal 1980; Goldberg et al. 1995a; Graves & Krupa 2005; Lowe 1954; McAlister 1958(1959); L.M. Smith et al. 2004; Sullivan 1982, 1983a-b, 2005a; Whitford 1969; Whitford & Meltzer 1976; Woodward 1981; Zweifel 1977.

Bufo debilis – Christman et al. 2004a; Cook et al. 2002; Goldberg et al. 1995a; Kamees & Burkett 2003; Lowe 1954; Painter 2005a; Sullivan 2005a; Taggart 1997; Whitford & Meltzer 1976; Woodward 1981.

Bufo microscaphus – Dahl et al. 2000; Gergus 1998; Goldberg 1996; Jennings 1995; Lamb et al. 2000; Schwaner & Sullivan 2005; Sullivan 1997, 2005a.

Bufo punctatus – Calamusso 1998; Cook et al. 2002; Giermakowski et al. 2003; Korky 1999; Ligon & Stone 2003; Persons & Nowak 2005c; Stuart & Scott 1995; Sullivan 2005a-b; Whitford 1969.

Bufo speciosus – Anderson 1997; Anderson et al. 1999b; Cook et al. 2002; Dayton & Painter 2005; Degenhardt 1998a; Radke 2001.

Bufo woodhousii – Anderson 1997; Axtell 1963; Burt 1933; Cartron et al. 2004a; Goldberg 1996; Lamb et al. 2000; Masta et al. 2002, 2003; McAlister 1958(1959); Mitchell 1988; Nelson et al. 1998; Sullivan 2005a,c; Woodward 1981, 1987.

Family Hylidae

All NM hylids – Faivovich et al. 2005.

Acris crepitans -- Anderson 1997; Gray et al. 2005.

Hyla arenicolor – Barber 1999a-b; Belfit 1979; Bradley et al. 2002; Calamusso 1998; Chiszar et al. 2003; Goldberg et al. 1996; Jennings 1995; Painter 2005b; Powell & Lieb 2003.

Hyla eximia – Blair 1960; Gergus et al. 2004, 2005; Goldberg et al. 1996; Jennings 1995; Monatesti et al. 2005.

Hyla wrightorum (see *H. eximia*).

Pseudacris maculata (see *P. triseriata*).

Pseudacris triseriata – Carr et al. 1997; Chenoweth 1950; Cummer et al. 2003; Goldberg et al. 1996; Livo 1998; Livo et al. 1998; Moriarty & Cannatella 2004; Moriarty & Lannoo 2005; Nelson et al. 1998; Pierce 1996.

Family Microhylidae

Gastrophryne olivacea -- Anderson 1997; Anderson et al. 1999b; Collins 1979; Moriarty et al. 2000; Sredl & Field 2005; Stuart & Painter 1996; Zweifel 1977.

Family Ranidae

All native NM spp. of *Rana* – Moore 1975; Rorabaugh 1997; Schwalbe 1997; Scott & Jennings 1989; Sredl & Painter 1997; Sullivan 1983b.

Rana berlandieri – Hillis & Wilcox 2005; Krupa 1998, 2002; Parker & Goldstein 2004; Purcell 1968; Rorabaugh 2005a.

Rana blairi – Anderson 1997; Burt 1933; Christman 2002; J. Crawford et al. 2005; Hillis & Wilcox 2005; Jaeger et al. 2001; Lusk et al. 2001; Purcell 1968.

Rana catesbeiana (**Non-native**) – Campbell 1965, 1966; Casper & Hendricks 2005; Dyroff 1985; Hillis & Wilcox 2005; Jackson 1962; Jennings 1995; Krupa 1998, 2002; Livo 1998; Lusk et al. 2001; McDowell 1970; Reid 1965; Sullivan 1983b; Woodward 1981.

Rana chiricahuensis – Bradley et al. 2002; Calamusso 1998; Christman 2002; C. Goldberg et al. 2004a; Hillis & Wilcox 2005; Jennings 1991, 1995; Purcell 1968; Rorabaugh 2002; Rosen 1997, 1999; Sredl & Jennings 2005; Zweifel 1977.

Rana pipiens – Applegarth 1983; Burt 1933; Chenoweth 1950; Cummer et al. 2003; Hillis & Wilcox 2005; Hoffman & Blouin 2004; Jaeger et al. 2001; Livo 1998; Moore 1975; Rorabaugh 2005b; Woodward 1981.

Rana yavapaiensis – Bradley et al. 2002; Hillis & Wilcox 2005; Jennings 1995; Rosen 1997; Sredl 2005.

TURTLES (Chelonia)

All NM Spp. of Turtles – Ernst et al. 2000.

Family Chelydridae

Chelydra serpentina – Giermakowski & Lamb 2003; Painter et al. 2001; Seidel 1975; Stuart 2000a; Stuart & Clark 1991.

Family Emydidae

Chrysemys picta – Applegarth 1983; Axtell 1977; Bishop & Schmidt 1931; Bleakney 1958; Boundy 1991; Brown 1968; Burt 1935; Cooley et al. 2003; Cushing 1883; Ernst 1988; M. Jennings 1987; Lindeman 1997; McAllister et al. 1995; McCaw 2001; Morjan 2002, 2003; Packard et al. 2002; Seidel & Smith 1986; Starkey et al. 2003; Stephens & Wiens 2003a-b; Stuart 1996, 1998c, 2000a, 2001; Ultsch et al. 2001; Van Devender & Van Devender 1975; Vogt & McCoy 1980.

Pseudemys gorzugi – Seidel & Ernst 1996; Seidel & Smith 1986; Starkey 1997; Stephens & Wiens 2003a-b; Vogt & McCoy 1980.

Terrapene carolina (Non-native) – Rice et al. 1994; Stuart 2000a.

Terrapene ornata – Brennan & Feldner 2003; Brown 1968; Dodd 2001; Germano 1999; Germano & Nieuwolt-Dacanay 1999; Kelley 1980; Milstead 1967; Nieuwolt 1993, 1996; Nieuwolt-Dacanay 1997; Plummer 2003; Plummer et al. 2003; Stephens & Wiens 2003a-b; Stuart 2000a; Vaughan 1961.

Trachemys gaigeae – Forstner et al. 1999; Garcia 1973; Larisch & Larisch 2003; McAllister et al. 1995a; Morjan & Stuart 2001; Price & Hillis 1989; Seidel 2002; Seidel et al. 1999; Starkey 1997; Stephens & Wiens 2003a-b; Stuart 1996, 1998d, 2000a; Stuart & Ernst 2004; Stuart & Miyashiro 1998; Stuart & Painter 1997, 2002, in press; Vogt & McCoy 1980; Wilson et al. 1999.

Trachemys scripta – Painter & Christman 2000; Seidel 2002; Seidel & Smith 1986; Seidel et al. 1999; Stephens & Wiens 2003a-b; Stuart 1995a, 2000a; Vogt & McCoy 1980.

Family Kinosternidae

Kinosternon flavescens – Conant & Berry 1978; Iverson 1989, 1991; Ligon & Peterson 2002; Seidel 1978; Serb et al. 2001; Stuart 1997, 2000a.

Kinosternon sonoriense – Conant & Berry 1978; Iverson 1991; Ligon & Peterson 2002; Ligon & Stone 2003a-b; Niles 1962; Peterson & Stone 2000; Stone 2001; Stone et al. 2005; van Loben Sels et al. 1997; Wygoda and Chmura 1990.

Family Testudinidae

Gopherus agassizii (Non-native) – Brattstrom 1964; Van Devender et al. 1976.

Family Trionychidae

Apalone mutica – Plummer 2001.

Apalone spinifera – Axtell 1977; Brown 1968; Garcia 1973; King 1984; Stuart 1988a, 1996, 2000a.

Trionyx (see *Apalone*).

LIZARDS (Sauria)

Iguanian lizards – Schulte et al. 2003.

Family Crotophytidae

Crotaphytus collaris – Axtell 1989; Burt 1928, 1935; Hutchison et al. 1999; Jorgensen et al. 1998; Macedonia et al. 2002; McGuire 1996.

Gambelia wislizenii – Burt 1935; Lemos-Espinal et al. 2000a; McGuire 1996; Orange et al. 1999.

Family Phrynosomatidae

NM Phrynosomatids – Reeder & Wiens 1996.

Callisaurus draconoides – Cox & Tanner 1977; de Queiroz 1989, 1992; Wilgenbusch & de Queiroz 2000.

Cophosaurus texanus – Axtell 1991; Burt 1935; Cox & Tanner 1977; de Queiroz 1989, 1992; Jorgensen et al. 1998; Kasson & Ross 2001; Price 1986; Punzo 2000; Reid & Fulbright 1981; Sugg 1992; Wilgenbusch & de Queiroz 2000.

“*Holbrookia elegans*” (including *H. approximans*) – Axtell 1998; Lemos-Espinal et al. 2002; H. Smith et al. 2004; Wilgenbusch & de Queiroz 2000.

Holbrookia maculata – Axtell 1956, 1998; Burt 1935; Cox & Tanner 1977; de Queiroz 1989, 1992; Hager 1998, 2000, 2001a-b, 2002; Hulse 1985; Mehm 1973; Smith et al. 1998a; Vaughan 1961; Wilgenbusch & de Queiroz 2000.

Phrynosoma (all NM spp.) – Barnett 1973; Hodges & Zamudio 2004; Sherbrooke 2003.

Phrynosoma cornutum – Axtell 1996; Blackshear & Richerson 1999; Bott et al. 2001; Burt 1935; Henke 2003; Lambert & Ferguson 1985; Lemos-Espinal et al. 1998a; Lowe 1947; Lynn 1965; Manley & Sherbrooke 2001; McIntyre 2003; Middendorf et al. 2001; Montgomery & Mackessy 2003; Montgomery et al. 2003; Pache 1974; Prieto 1967; Reeder & Montanucci 2001; Reid & Fulbright 1981; Sherbrooke 1990, 1997, 2002a,b,e; Sherbrooke and Mason 2005; Sherbrooke & Middendorf 2001; Sherbrooke & Nagle 1996; Wood 1936.

Phrynosoma douglasii (see *P. hernandesi*)

Phrynosoma hernandesi – Burt 1935; Cartron et al. 2004b; Cummer et al. 2003; Lowe 1947; Lynn 1965; Prieto 1967; Reeder & Montanucci 2001; Sherbrooke et al. 2002; Sherbrooke & Greenfield 2002; Sherbrooke & Middendorf 2001; Sherbrooke & Nagle 1996; H. Smith et al. 1999a; Zamudio 1996, 1998; Zamudio et al. 1997.

Phrynosoma modestum – Lowe 1947; Lynn 1965; Persons & Nowak 2005a; Ramotnik 1998; Reeder & Montanucci 2001; Rondeau 2002; Shaffer 1979; Sherbrooke 1990, 1997, 2000a, 2002c-d; Sherbrooke & Middendorf 2001; Sherbrooke & Nagle 1996; Whiting & Dixon 1996.

Phrynosoma solare – Lynn 1965; Reeder & Montanucci 2001; Sherbrooke 1987, 1997.

Sceloporus (all NM spp.) – Bell et al. 2003; Sites et al. 1992; Wiens & Reeder 1997.

Sceloporus arenicolus – Bailey & Painter 1994; Cole 1975; Degenhardt & Sena 1976; Painter 2002; Painter et al. 1999c; Painter & Sias 1998a; Sartorius et al. 2002.

Sceloporus clarkii – C. Carpenter 1978.

Sceloporus consobrinus (see *S. undulatus* [sensu lato])

Sceloporus cowlesi (see *S. undulatus* [sensu lato])

Sceloporus graciosus – C. Carpenter 1978; Cuellar & Cuellar 1977a.

Sceloporus jarrovi – C. Carpenter 1978; Duncan et al. 2003; Goldberg et al. 1995b; Setser et al. 2005; Sherbrooke 2000b; Sherbrooke and Mason 2005; Sherbrooke et al. 1994; Wiens & Penkrot 2002; Wiens et al. 1999; Zamudio & Wieczorek 2000.

Sceloporus magister – Axtell 1992; Burkett & Black 2000c; C. Carpenter 1978; Grismer & McGuire 1996.

Sceloporus poinsetti – C. Carpenter 1978; Goldberg et al. 1993; Newlin & Ballinger 1976; Werning 2000 (2001).

Sceloporus scalaris (see *S. slevini*).

Sceloporus slevini – Ballinger & Congdon 1996; C. Carpenter 1978; H. Smith et al. 1996; Watkins-Colwell et al. 2003.

Sceloporus tristichus (see *S. undulatus [sensu lato]*)

Sceloporus undulatus (sensu lato) – Applegarth 1969; Burt 1935; C. Carpenter 1978; Crowley 1985, 1986; Cummer et al. 2003; Hager 2001a; Jorgensen et al. 1998; Leache & Reeder 2002; Lemos-Espinal et al. 1998b, 1999, 2000b, 2003, 2004a; Miles et al. 2002; Reid & Fulbright 1981; Smith & Chiszar 1999; H. Smith et al. 1995, 1999b, 1999d, 2001, 2002.

Sceloporus virgatus – Abell 1998, 1999; Duncan et al. 2003; G. Smith 1996a-c, 1997, 1998; Zamudio & Wieczorek 2000.

Urosaurus ornatus – Axtell 1997; G. Carpenter 1992, 1995a-b; Castrucci et al. 1997; Delahunt 1976; Elfström 1996; Elfström & Zucker 1999; Goldberg et al. 1994; Goldberg & Zucker 1994; Haenel 1997; Landwer 1994a-b; Mahrt 1995, 1996, 1998a-b; Michel 1974; Murray 1953; Morrison et al. 1996; Newlin & Ballinger 1976; Pomerinke 1993; Seely et al. 1989; Smith & Ballinger 1994, 1995; Smith & Zucker 1997; Villaverde 1998; Villaverde & Zucker 1998; Yeager 1990; Zucker 1986, 1988a-b, 1992, 1994a-b; Zucker & Guillette 1985; Zucker & Murray 1996.

Uta stansburiana – Burkett & Black 2000d; Burt 1935; C. Carpenter 1962; Jorgensen et al. 1998; McKinney 1971; Reid & Fulbright 1981; Sartorius et al. 2002.

Family Gekkonidae

Coleonyx brevis – Kamees & Burkett 1995.

Coleonyx variegatus – Price 1980.

Hemidactylus turcicus (Non-native) – Murray & Painter 2003b; Sias & Humphrey 2002.

Family Teiidae

Aspidoscelis (see *Cnemidophorus*).

Cnemidophorus (sp. unclear) – Burt 1935.

Cnemidophorus (all or most NM spp.) – Ashton 2003; Reeder et al. 2002; H. Smith 1987; Walker 1986; Townsend 1979; Townsend & Cole 1985; Ward & Cole 1986.

Cnemidophorus burti – Hayward et al. 1977; Paulissen & Walker 1996.

Cnemidophorus dixonii – Anonymous 1989; Dessauer et al. 1996; Kraus 1995; Painter 1995a-b; Walker et al. 1997.

Cnemidophorus exsanguis – Axtell 2003; Cartron et al. 2004a; Cuellar 1968; Hotchkin & Riveroll 2005; Jorgensen et al. 1998; Lucchino 1973a; Maslin 1966; Medica 1966; Moritz & Brown 1986; Moritz et al. 1989; Smith et al. 1998b; Stuart 1993; H. Taylor & Caraveo 2003; H. Taylor et al. 2001; Townsend 1979; Townsend & Cole 1985.

Cnemidophorus flagellicaudus – Bezy & Enderson 2002a; Moritz et al. 1989; H. Taylor & Caraveo 2003; H. Taylor & Ranck 1984.

Cnemidophorus grahamii (see *C. tessellatus*).

Cnemidophorus gularis – Best & Polechla 1983; Gannon et al. 1990; O'Connell & Formanowicz 1998; Pietruszka 1981.

Cnemidophorus gypsi – (see *C. inornatus*).

Cnemidophorus inornatus – Christiansen 1968, 1969, 1973; Christiansen & Ladman 1968; Crews 1989; Day et al. 2001, 2003; Drost et al. 1997; Jorgensen et al. 1998; Kay et al. 1973; Lucchino 1973b; Maslin 1966; Medica 1966; Pietruszka 1981; Walker et al. 1996a; Smith et al. 2000; H. Taylor et al. 2001.

Cnemidophorus marmoratus (see *C. tigris*).

Cnemidophorus neomexicanus – Burkett et al. 2004; Christiansen 1969, 1973; Christiansen & Ladman 1968; Cordes & Walker 2005; Crippen 1962; Cuellar 1968; Cuellar & Cuellar 1977b; Dessauer et al. 1996; Drost et al. 1997; Forbes 1961; Hotchkin & Riveroll 2005; Lawrence 1955; Leuck 1980, 2002 (2003); Lucchino 1973b; Maslin 1966, 1967; Medica 1966; Moritz et al. 1989; Parker et al. 1989; Persons & Wright 1999; H. Smith et al. 1997; H. Taylor 2002; H. Taylor & Walker 1996b; Walker 1997; White 1969; Wright & Degenhardt 1962.

Cnemidophorus sexlineatus – Axtell 1994; Leuck 1980, 2002 (2003); Maslin 1967; Moritz et al. 1989; Pietruszka 1981; Trauth & McAllister 1996; Vaughan 1961.

Cnemidophorus sonorae – Lucchino 1973a; Moritz et al. 1989; H. Taylor & Caraveo 2003.

Cnemidophorus tessellatus – Cordes & Walker 2003; Cuellar 1968; Dessauer et al. 1996; Hotchkin & Riveroll 2005; Leuck 1980, 2002 (2003); Lucchino 1973b; Maslin 1966, 1967; Moritz et al. 1989; Parker et al. 1989; Price 1986; H. Taylor & Caraveo 2003; H. Taylor et al. 1996, 1997, 1999, 2000, 2001, 2003a-b, 2005a-b; Walker & Cordes 2003; Walker et al. 1997.

Cnemidophorus tigris – Asplund 1974; Best & Polechla 1983; Burkett & Black 2000a; Cuellar 1968; Dessauer et al. 1996, 2000; Hotchkin & Riveroll 2005; Jorgensen et al. 1998; Kay et al. 1973; Lemos-Espinal et al. 2000a; Lucchino 1973b; Maslin 1967; Medica 1966; Moritz et al. 1989; Pietruszka 1981; Price 1986; H. Taylor 1968; H. Taylor & Walker 1996a; H. Taylor et al. 2001; Zweifel 1958.

Cnemidophorus uniparens – Axtell 2001; Burkett & Black 2000b; Crews 1989; Cuellar 1968, 1984; Cuellar & Cuellar 1977a; Degenhardt 1998b; Eifler & Eifler 1998; Kraemer 1989; Lucchino 1973b; Moore et al. 1984; Stuart 1995b; Walker et al. 1996b.

Cnemidophorus velox – Cuellar 1968; Maslin 1966; Nelson et al. 1998; Painter et al. 2000a; Parker et al. 1989; Stuart 1998a.

Family Scincidae

***Eumeces* spp.** – Brandley et al. 2005; Griffith et al. 2000; Schmitz et al. 2004; Smith 2005.

Eumeces callicephalus – Edwards & Swann 2003; E. Taylor 1929 (1930).

Eumeces multivirgatus – Axtell 2000a; Axtell & Smith 2004; Bailey 1937; Brown 1952; Doles et al. 1996; Gonzales et al. 2002; Griffith et al. 2000; Heyl & Smith 1957; Lowe 1955; Nelson et al. 1998; Smith 1942; E. Taylor 1935; Watson 2003.

Eumeces obsoletus – Axtell 2000b; Cartron et al. 2004a; Griffith et al. 2000; Painter & Pierce 2000.

Eumeces tetragrammus (see *E. callicephalus*).

Family Anguidae

Elgaria kingii – Bowker 1986; Brennan & Feldner 2002; Good 1988; Painter & Jennings 1998; Wagner & Gurrola 1995.

Family Helodermatidae

Heloderma suspectum – Anonymous 1963; Beck 2005; Beck & Jennings 2003; H. Campbell 1976; J. Campbell & Lamar 2004; Gross 1973; Williamson 1972d.

SNAKES (Serpentes)

Snakes (General) – Greene 1997; Lee 1965; McDiarmid et al. 1999; Price 1985.

Snakes (All NM Spp.) – Ernst & Ernst 2004.

Family Leptotyphlopidae

Leptotyphlops spp. – Wallach 2003.

Leptotyphlops dissectus (see *L. dulcis*)

Leptotyphlops dulcis – Carpenter & Painter 1999; Cope 1896; Dixon & Vaughan 2003; Kley 2001; McAllister 1991; Painter et al. 2000b; Sias 2002; Taylor 1939.

Leptotyphlops humilis – Burkett & Black 2000e; Taylor 1939.

Family Colubridae

Colubrid snake genera – Keogh 1996; Utiger et al. 2005.

Arizona elegans – Aldridge 2001; Baker et al. 1972; Degenhardt & Stuart 1998; Dixon 1959; Painter & Sias 1998b; Rodriguez-Robles et al. 1999.

Bogertophis subocularis – Baker et al. 1971, 1972; Dowling 1957; Jameson 1957b; Schulz 1996; Webb & Ferguson 1986.

Coluber constrictor – Anderson 1996; Baker et al. 1972; Utiger et al. 2005; Glidewell 1974; Jones & Stuart 2004; Nagy et al. 2004; Ortenburger 1928; Schatti & Wilson 1986; Seidel & Wilson 1979; Somers et al. 1995.

Coluber mormon (see *C. constrictor*).

Diadophis punctatus – Gordon 1997; Pinou et al. 1995, 2004; Sias et al. 2001; Stuart 2000b.

Elaphe emoryi (see *E. guttata*).

Elaphe guttata – Anderson 1995; Baker et al. 1972; Burbrink 2002; Burkett et al. 1998; Schulz 1996; Utiger et al. 2002; Vaughan et al. 1996.

Gyalopion canum – Goldberg 2002b; Hardy 1975; Stuart 1988b; Williamson 1972a.

Heterodon nasicus – Baker et al. 1972; Carr & Stuart 1997b; Eckerman 1996; Edgren 2001; Painter et al. 1996; Pinou et al. 2004; H. Smith et al. 2003; Stuart 2000c; Walley & Eckerman 1999; Webb & Eckerman 1998.

Hypsiglena torquata – Goldberg 2001a; Hibbitts et al. 1999; Jorgensen et al. 1998; Persons & Nowak 2005b; Rodriguez-Robles et al. 1999; Tanner 1997.

Lampropeltis spp. – Blanchard 1920.

Lampropeltis alterna – Baker et al. 1972; Hilken & Schlepfer 1998; Painter et al. 2002.

Lampropeltis getula – Alberico 1978; Baker et al. 1972; Burkett & Painter 1998; Davenport et al. 1998; Price 1978; Price & LaPointe 1981.

Lampropeltis pyromelana – Christman & Holycross 2001; Fox 2002; S. Goldberg 1997; Hubbs 2004; Ingrassi et al. 2004; Price & Johnson 1978a.

Lampropeltis triangulum – Badman et al. 2003; Gehlbach 1962; Gorum 1997; Holycross & Schwalbe 1995; Hubbs 1998; Painter & Hibbitts 1997; Painter & Jennings 1996; Price & Johnson 1978b; Tanner & Loomis 1957; Williamson 1972b.

Liochlorophis vernalis (see *Opheodrys vernalis*).

Masticophis spp. – Nagy et al. 2004; Utiger et al. 2005.

Masticophis bilineatus – Bezy & Enderson 2002b; Camper 1996a; Camper & Dixon 1994, 2000, 2002; Hibbitts & Hibbitts 1999; Ortenburger 1928; Stitt 2003.

Masticophis flagellum – Baker et al. 1972; Goldberg 2002a; Jones & Whitford 1989; Maslin 1953; Nelson & Painter 1998; Ortenburger 1928; Stuart et al. 2001; Watson & Stuart 2003.

Masticophis taeniatus – Baker et al. 1972; Camper 1996b; Camper & Dixon 1994, 2000, 2002; Painter et al. 2001; Smith et al. 1999c.

Nerodia erythrogaster – Baker et al. 1972; Gibbons & Dorcas 2004; West 1992.

Opheodrys vernalis – Cummer et al. 2003; Stuart 2002; Stuart & Degenhardt 1990; Walley 2003.

Pantherophis (see *Elaphe*).

Pituophis catenifer – Baker et al. 1972; C. Carpenter 1982; Knight 1986; Owings et al. 2001; Reichling 1995; Rodriguez-Robles 1998, 2002; Rodriguez-Robles & de Jesus-Escobar 2000; Stuart et al. 2001; Vaughan 1961.

Pituophis melanoleucus (see *P. catenifer*).

Rhinocheilus lecontei – Burkett & Black 2000f; Goldberg 2000; Lucas et al. 1995; Manier 2004; Parmley 2002 (2003); Rodriguez-Robles et al. 1999; Rodriguez-Robles & Greene 1999.

***Salvadora* spp.** – Utiger et al. 2005.

Salvadora deserticola (see *S. hexalepis*).

Salvadora grahamiae – Baker et al. 1972; Christman et al. 1998; Lannutti 2000; Painter & Sias 2000.

Salvadora hexalepis – Bogert 1945, 1985; Burkett 2003; Jameson 1957a; Stitt 2003.

Senticolis triaspis – Egbert 1980; Goldberg 2003a; Schulz 1996.

Sonora semiannulata – Goldberg 2001b.

Tantilla hobartsmithi – Painter et al. 1997; Tanner 1966.

Tantilla nigriceps – Painter et al. 1997, 2003; Perry & Hauer 1996; Tanner 1966.

Tantilla yaquia – Tanner 1966; Wilcox et al. 2000.

***Thamnophis* (all NM spp.)** – de Queiroz & Lawson 1994; de Queiroz et al. 2002; Rossman et al. 1996.

Thamnophis cyrtopsis – Baker et al. 1972; Enderson & Bezy 2002; Goldberg 1998; Goldberg & Bursley 2002a; Milstead 1953; Price 1979; Rossman et al. 1996; Stone et al. 2005.

Thamnophis elegans – Baker et al. 1972; Bronikowski & Arnold 2001; Cummer et al. 2003; de Queiroz & Lawson 1994; Goldberg 2004a; Kasper & Kasper 1997; McAllister et al. 1995b; Painter et al. 1999b; Rossman et al. 1996; Seidel & Lindeborg 1973; Stuart 1987.

Thamnophis eques – Center for Biological Diversity 2003; Conant 2003; Goldberg 2004b; Rossman et al. 1996.

Thamnophis marcianus – Baker et al. 1972; Burkett & Black 2003; Rossman et al. 1996; Seigel et al. 2000; Woodward 1981.

Thamnophis proximus – Baker et al. 1972; Rossman et al. 1996.

Thamnophis radix – Baker et al. 1972; Rossman et al. 1996; Seidel & Lindeborg 1973; Walley et al. 2003.

Thamnophis rufipunctatus – Baker et al. 1972; de Queiroz & Lawson 1994; Goldberg 2003b; Nowak & Santana-Bendix 2003a-b; Painter & Hibbits 1996; Rossman et al. 1996; Smith & Chiszar 2003.

Thamnophis sirtalis – Axtell 1977; Baker et al. 1972; Painter et al. 1998; Rossman et al. 1996; Stuart 1991; Tanner 1988; Van Devender 1973; Van Devender & Van Devender 1975.

Trimorphodon biscutatus – Gehlbach 1958; C. Jones & Findley 1963; LaDuc & Johnson 2003; Medica 1962; Sias & Brand 2002; Williamson 1972c.

Trimorphodon vilkinsonii (see *T. biscutatus*).

Tropidoclonion lineatum – Jones & Painter 2005; Lawson 1985; Maslin & Koster 1954; Williamson & Degenhardt 1984; Williamson & Scott 1982.

Family Elapidae

Micruroides euryxanthus – H. Campbell 1952, 1977; J. Campbell & Lamar 2004; Slowinski 1995.

Family Viperidae

***Crotalus/Sistrurus* (genera or all NM spp.)** – H. Campbell 1952, 1975b; J. Campbell & Lamar 2004; Knight et al. 1993; Lee 1961a-b; Murphy et al. 2002; Parkinson 1999; Price 1985; Stille 1987.

Crotalus atrox – Baker et al. 1972; Campbell 1950, 1958; Cartron et al. 2004b; Fitzgerald & Painter 1994, 2000; Goldberg et al. 2002b; Holycross 2000a; Martin-Bashore 1997; Nowak et al. 2002; Owings et al. 2001; Painter 1998; Painter & Fitzgerald 1997; Painter et al. 1999a; Price 1998; Rosen & Goldberg 2002; Vanderpool et al. 2005.

- Crotalus cerberus*** – Ashton 2001; Ashton & de Queiroz 2001; Christman et al. 2000; Douglas et al. 2002; Goldberg 2002c (2003); Goldberg & Bursey 2004; Pook et al. 2000; Schuett et al. 2002b.
- Crotalus lepidus*** – Baker et al. 1972; Black & Burkett 2003; Christman et al. 2004b; Dorcas 1992; Frey 1996; Goldberg 1999a (2000); Goldberg & Bursey 1999; Goldberg et al. 2002a; Holycross et al. 1999, 2002b; Hyder 1992; Kraus et al. 1996; Price 1998; Rice 1984; L. Smith et al. 2001; Rael et al. 1992; Starrett & Holycross 2000; Swinford 1994.
- Crotalus molossus*** – Baker et al. 1972; Christman & Painter 1998; Goldberg 1999b; Goldberg & Bursey 1999; Hardy & Greene 1995, 1999; Greene et al. 2002; Hamilton & Wrieden 2004; Holycross et al. 1999; Hyder 1992; Price 1998; L. Smith et al. 2001.
- Crotalus oreganus*** (see *C. cerberus*)
- Crotalus scutulatus*** – Baker et al. 1972; Goldberg & Rosen 2000; Martin-Bashore 1997; Plummer 2000; Price 1998; Schuett et al. 2002a; Wooldridge et al. 2001.
- Crotalus tigris*** (likely but unverified in NM) – Goldberg & Bursey 1999; Holycross 1998.
- Crotalus viridis*** (see also *C. cerberus*) – Ashton 2001; Ashton & de Queiroz 2001; Baker et al. 1972; Campbell 1953; Christman et al. 2000; Douglas et al. 2002; Pook et al. 2000; Price 1998; Schuett et al. 2002b; Vaughan 1961.
- Crotalus willardi*** – Anonymous 1985; Applegarth et al. 1980; Baltosser & Hubbard 1985; Bryson & Holycross 2001; Goldberg & Bursey 2000; Greene 1994; Gross 1973; Holycross 2000b, 2002; Holycross & Goldberg 2001; Holycross & Smith 1997; Holycross et al. 1999, 2001, 2002a; Keegan et al. 1999; McAllister et al. 1996; Montgomery 1989; Painter 2002; Setser et al. 2005; L. Smith et al. 2001; Tyrpak 1994.
- Sistrurus catenatus*** – Baker et al. 1972; Dileanis 1966; Gloyd 1955; Goldberg & Holycross 1999; Goldberg et al. 2001; Greene 1994; Hobert et al. 2004; Holycross 2002; Holycross & Mackessy 2002; Holycross & Rubio 2000; Jones & Stuart 2004; Price 1998; Reiserer 2002; Stuart & Brown 1996.

GENERAL TOPIC (Multiple Species)

Nearly all of the references provided below concern surveys of multiple species and in most cases have not been cited above under the individual species categories.

Herpetofaunal Studies by Region (more than one county) – Adler 1979; Belfit 1978; Bernard & Brown 1978; Bogan et al. 1998; Burt 1935; Chenoweth 1950; Gehlbach 1981. **Colorado Plateau** – Drost & Deshler 1995. **Chihuahuan Desert** – Fitzgerald et al. 2004; Harris 1977; Johnson 1978; Jorgensen 1996; Jorgensen & Demarais 1998; Kelley 1980; Morafka 1977; Peterson 1978; Price 1985; Rice et al. 1994; Williamson 1986. **Rio Grande Valley** – Bailey et al. 2001; Broderick 2000; Hink & Ohmart 1984. **Pecos River Valley** – Konkle 1996. **White Sands Missile Range** – Austin 1996; Burkett 2000; Burkett & Black 1999a. **Southern Rocky Mountains** – Cook et al. 2000.

Herpetofaunal Studies by County (multiple species, in all or part of county) –

Cibola – McCallum 1979.

Curry – Applegarth et al. 1981.

Doña Ana – Burkett & Black 1999b; Price 1985.

Eddy – Applegarth 1979a-b; Gehlbach 1964; Konkle 1996; Krupa 1998; Stuart & White 1987.

Grant – Johnson 1978.

Harding – Brown 2002; Brown & Stuart 1990; Painter & Wilds 2000.

Hidalgo – Baltosser 1980; Egbert 1980; Dixon 1978; Hayward et al. 1977; Hubbard 1987; Hubbard et al. 1977; Sias & Painter 2001, 2002a-c; Tomberlin 1993.

Lincoln – Kimmons 1969.

Los Alamos – Degenhardt 1975; Fox et al. 1999.

McKinley – Applegarth 1973; Chenoweth 1950; Harris 1965.

Mora – Brown 2002; Brown & Stuart 1990; Painter & Wilds 2000.

Otero – Austin 1996; Martin-Bashore 1997; Price 1985.

Quay – Cully 1983.

Sandoval – Cummer et al. 2003.

San Juan – Dean & Stock 1961; Harris 1965.

San Miguel – Brown & Stuart 1990.

Santa Fe – Degenhardt 1975; Kelley 1980.

Sierra – Brown 2003; Christman 2002.

Socorro – Applegarth 1982; Price 1985; Scott 1978.

Union – Collins 2000; Stuart & Brown 1988.

Herpetofaunas of Adjacent States (multiple species) – **Colorado** – Hammerson 1999. **Texas** – Dixon 2000; Garrett & Barker 1987; Martin-Bashore et al. 1996; Price 1998; Werler & Dixon 2000; Worthington 1976. **Chihuahua** – Lemos Espinal et al. 2004b.

Special Status Herpetofauna (Protected and Regulated Species) – Barnett 1973; Cagle 1974; Campbell 1975a; Fitzgerald et al. 2004; Gross 1973; Painter et al. 1999d; Stebbins & Cohen 1995; H. Stuart 1982.

Fossil Remains of Modern Species (and Selected Extinct Forms) – Applegarth 1979a-b; Brattstrom 1964; Bryan 1929; Conkling 1932; Harris 1977, 1985; Harris & Findley 1964; Holman 1970, 1995; Hutchison et al. 1999; Lucas et al. 1995; Milstead 1967; Norell & de Queiroz 1991; Parmley 2002 (2003); Rickart 1977; Schultz & Howard 1935; Van Devender et al. 1976; Van Devender & Worthington 1977; Wiley 1972.

Reviews and Commentaries – Arritt 1997; Belcher 1995; Dixon 1997; Dorcas 1997; Klemens 1995; Levell 1996; Parmelee 1997; Price et al. 1996; Stuart 1994, 1998b, 2005.

Appendix A

LIST OF STANDARD ENGLISH AND CURRENT SCIENTIFIC NAMES FOR AMPHIBIANS AND REPTILES OF NEW MEXICO

Compiled by James N. Stuart and Charles W. Painter
Revised: 21 July 2004

The following taxonomic checklist for New Mexico, with citations of original descriptions and common names, is derived from Committee on Standard English and Scientific Names (2000 [2001]) and Crother et al. (2003). The checklist reflects recent changes in scientific and vernacular names since the work of Degenhardt et al. (1996) and is an attempt to provide the latest taxonomic consensus (or majority opinion, as consensus is often lacking) of the herpetological community. Scientific names agree in most cases with those used in Section 3 of the supplemental bibliography; however, the user should be aware that some recent and potentially controversial changes have not been incorporated in the bibliography (e.g., *Aspidoscelis* for *Cnemidophorus*; species within *Sceloporus undulatus* sensu lato). Table A-1 provides a count of species and subspecies by major taxonomic group based on the taxonomy in this appendix. Taxa that are not native to New Mexico but are now established in the state are identified by (NN); uniparental (parthenogenetic) species are identified by (U). An asterisk (*) indicates an English name that differs from Committee on Standard English and Scientific Names (2000 [2001]) or Crother et al. (2003). A double asterisk (**) indicates a species of unverified but likely occurrence in New Mexico.

References Cited

- Committee on Standard English and Scientific Names. 2000 (2001). Scientific and standard English names of amphibians and reptiles of North America north of Mexico, with comments regarding confidence in our understanding. SSAR Herpetol. Circular (29): iv + 82.
- Crother, B.I. J. Boundy, J.A. Campbell, K. de Queiroz, D. Frost, D.M. Green, R. Highton, J.B. Iverson, R.W. McDiarmid, P.A. Meylan, T.W. Reeder, M.E. Seidel, J.W. Sites, Jr., S.G. Tilley, and D.B. Wake. 2003. Scientific and standard English names of amphibians and reptiles of North America north of Mexico: update. Herpetol. Rev. 34(3):196-203.
- Degenhardt, W.G., C.W. Painter, and A.H. Price. 1996. Amphibians and Reptiles of New Mexico. Univ. New Mexico Press, Albuquerque. xix + 431 pp.

Table A-1. Species and monotypic species/subspecies of herpetofauna verified from New Mexico, based on scientific names used in Appendix A.

Major Group	Species	Monotypic Species + Subspecies
Caudata	3	4
Anura	24	25
Testudines	10	12
Sauria	46	57
Serpentes	47	61
TOTAL	130	159

Order Caudata – SalamandersFamily Ambystomatidae – Mole Salamanders

Ambystoma Tschudi 1838 – Mole Salamanders

Ambystoma tigrinum (Green 1825) – Tiger Salamander

A. t. mavortium Baird 1850 – Barred Tiger Salamander

A. t. nebulosum Hallowell 1852 – Arizona Tiger Salamander

Family Plethodontidae – Woodland Salamanders

Aneides Baird 1849 – Climbing Salamanders

Aneides hardii (Taylor 1941) – Sacramento Mountains Salamander

Plethodon Tschudi 1838 – Woodland Salamanders

Plethodon neomexicanus Stebbins and Riemer 1950 – Jemez Mountains Salamander

Order Anura – Frogs and ToadsFamily Scaphiopodidae – North American Spadefoots

Scaphiopus Holbrook 1836 – North American Spadefoots

Scaphiopus couchii Baird 1854 – Couch's Spadefoot

Spea Cope 1866 – Western Spadefoots

Spea bombifrons (Cope 1863) – Plains Spadefoot

Spea multiplicata (Cope 1863) – Mexican Spadefoot

S. m. stagnalis (Cope 1875) – New Mexico Spadefoot

Family Leptodactylidae – Tropical Frogs

Eleutherodactylus Duméril and Bibron 1841 – Rainfrogs

Eleutherodactylus augusti (Dugès 1879) – Barking Frog

E. a. latrans (Cope 1880) – Balcones Barking Frog

Family Bufonidae – True Toads

Bufo Laurenti 1768 – Toads

Bufo alvarius Girard 1859 – Sonoran Desert Toad

Bufo boreas Baird and Girard 1852 – Western Toad

B. b. boreas Baird and Girard 1852 – Boreal Toad

Bufo cognatus Say 1823 – Great Plains Toad

Bufo debilis Girard 1854 – Green Toad

B. d. insidiosus Girard 1854 – Western Green Toad

Bufo microscaphus Cope 1867 “1866” – Arizona Toad

Bufo punctatus Baird and Girard 1852 – Red-spotted Toad

Bufo speciosus Girard 1854 – Texas Toad

Bufo woodhousii Girard 1854 – Woodhouse's Toad

B. w. australis Shannon and Lowe 1955 – Southwestern Woodhouse's Toad

B. w. woodhousii Girard 1854 – Rocky Mountain Toad

Family Hylidae – Treefrogs

Acris Duméril and Bibron 1841 – Cricket Frogs

Acris crepitans Baird 1854 – Northern Cricket Frog

A. c. blanchardi Harper 1947 – Blanchard’s Cricket Frog

Hyla Laurenti 1768 – Treefrogs

Hyla arenicolor Cope 1866 – Canyon Treefrog

Hyla wrightorum Taylor 1939 “1938” – Mountain Treefrog

Pseudacris Fitzinger 1843 – Chorus Frogs

Pseudacris maculata (Agassiz 1850) – Boreal Chorus Frog

Pseudacris triseriata (Wied-Neuwied 1838) – Western Chorus Frog

Family Microhylidae – Narrow-mouthed Toads

Gastrophryne Fitzinger 1843 – North American Narrow-mouthed Toads

Gastrophryne olivacea (Hallowell 1856) – Great Plains Narrow-mouthed Toad

Family Ranidae – True Frogs

Rana Linnaeus 1758 – True Frogs

Rana berlandieri Baird 1859 – Rio Grande Leopard Frog

Rana blairi Mecham, Littlejohn, Oldham, Brown and Brown 1973 – Plains Leopard Frog

Rana catesbeiana Shaw 1802 – American Bullfrog (NN)

Rana chiricahuensis Platz and Mecham 1979 – Chiricahua Leopard Frog

Rana pipiens Schreber 1782 – Northern Leopard Frog

Rana yavapaiensis Platz and Frost 1984 – Lowland Leopard Frog

Order Testudines – Turtles

Family Chelydridae – Snapping Turtles

Chelydra Schweigger 1812 – Snapping Turtles

Chelydra serpentina (Linnaeus 1758) – Snapping Turtle

C. s. serpentina (Linnaeus 1758) – Eastern Snapping Turtle

Family Emydidae – Box and Water Turtles

Chrysemys Gray 1844 – Painted Turtles

Chrysemys picta (Schneider 1783) – Painted Turtle

C. p. bellii (Gray 1831) – Western Painted Turtle

Pseudemys Gray 1856 – Cooters

Pseudemys gorzugi Ward 1984 – Western River Cooter*

Terrapene Merrem 1820 – American Box Turtles

Terrapene ornata (Agassiz 1857) – Ornate Box Turtle

T. o. luteola Smith and Ramsey 1952 – Desert Box Turtle

T. o. ornata (Agassiz 1857) – Ornate Box Turtle

Trachemys Agassiz 1857 – Sliders

Trachemys gaigeae (Hartweg 1939) – Mexican Plateau Slider

T. g. gaigeae (Hartweg 1939) – Big Bend Slider

Trachemys scripta (Schoepff 1792) – Pond Slider
T. s. elegans (Wied-Neuwied 1838) – Red-eared Slider

Family Kinosternidae – Mud and Musk Turtles

Kinosternon Spix 1824 – American Mud Turtles
Kinosternon flavescens (Agassiz 1857) – Yellow Mud Turtle
Kinosternon sonoriense LeConte 1854 – Sonora Mud Turtle
K. s. sonoriense LeConte 1854 – Sonora Mud Turtle

Family Trionychidae – Softshell Turtles

Apalone Rafinesque 1832 – North American Softshells
Apalone mutica (Lesueur 1827) – Smooth Softshell
A. m. mutica (Lesueur 1827) – Midland Smooth Softshell
Apalone spinifera (Lesueur 1827) – Spiny Softshell
A. s. emoryi (Agassiz 1857) – Texas Spiny Softshell
A. s. hartwegi (Conant and Goin 1948) – Western Spiny Softshell

Order Squamata – Lizards and Snakes

Suborder Sauria – Lizards

Family Crotophytidae – Collared and Leopard Lizards

Crotaphytus Holbrook 1842 – Collared Lizards
Crotaphytus collaris (Say 1823) – Eastern Collared Lizard

Gambelia Baird 1859 “1858” – Leopard Lizards
Gambelia wislizenii (Baird and Girard 1852) – Long-nosed Leopard Lizard

Family Phrynosomatidae – Horned and Spiny Lizards

Callisaurus Blainville 1835 – Zebra-tailed Lizards
Callisaurus draconoides Blainville 1835 – Zebra-tailed Lizard
C. d. ventralis (Hallowell 1852) – Eastern Zebra-tailed Lizard

Cophosaurus Troschel 1852 “1850” – Greater Earless Lizards
Cophosaurus texanus Troschel 1852 “1850” – Greater Earless Lizard
C. t. scitulus (Peters 1951) – Chihuahuan Greater Earless Lizard

Holbrookia Girard 1851 – Lesser Earless Lizards
Holbrookia elegans Bocourt 1874 – Elegant Earless Lizard
H. e. thermophila Barbour 1921 – Sonoran Earless Lizard
Holbrookia maculata Girard 1851 – Common Lesser Earless Lizard
H. m. approximans Baird 1859 “1858” – Speckled Earless Lizard
H. m. bunkerii Smith 1935 – Bunker’s Earless Lizard
H. m. maculata Girard 1851 – Great Plains Earless Lizard
H. m. ruthveni Smith 1943 – Bleached Earless Lizard

Phrynosoma Wiegmann 1828 – Horned Lizards
Phrynosoma cornutum (Harlan 1825) – Texas Horned Lizard
Phrynosoma hernandesi Girard 1858 – Greater Short-horned Lizard
P. h. hernandesi Girard 1858 – Hernandez’s Short-horned Lizard

Phrynosoma modestum Girard 1852 – Round-tailed Horned Lizard
Phrynosoma solare Gray 1845 – Regal Horned Lizard

Sceloporus Wiegmann 1828 – Spiny Lizards

Sceloporus arenicolus Degenhardt and Jones 1972 – Sand Dune Lizard*
Sceloporus clarkii Baird and Girard 1852 – Clark’s Spiny Lizard
S. c. clarkii Baird and Girard 1852 – Sonoran Spiny Lizard
Sceloporus consobrinus Baird and Girard 1853 – Prairie Lizard
Sceloporus cowlesi Lowe and Norris 1956 – Southwestern Fence Lizard
Sceloporus graciosus Baird and Girard 1852 – Common Sagebrush Lizard
S. g. graciosus Baird and Girard 1852 – Northern Sagebrush Lizard
Sceloporus jarrovii Cope 1875 – Yarrow’s Spiny Lizard
Sceloporus magister Hallowell 1854 – Desert Spiny Lizard
S. m. bimaculosus Phelan and Brattstrom 1955 – Twin-spotted Spiny Lizard
S. m. cephaloflavus Tanner 1955 – Orange-headed Spiny Lizard
Sceloporus poinsetti Baird and Girard 1852 – Crevice Spiny Lizard
S. p. poinsetti Baird and Girard 1852 – Northern Crevice Spiny Lizard
Sceloporus slevini Smith 1937 – Slevin’s Bunchgrass Lizard
Sceloporus tristichus Cope in Yarrow 1875 – Plateau Lizard
Sceloporus virgatus Smith 1938 – Striped Plateau Lizard

Urosaurus Hallowell 1854 – Tree and Brush Lizards

Urosaurus ornatus (Baird and Girard 1852) – Ornate Tree Lizard
U. o. levis (Stejneger 1890) – Smooth Tree Lizard
U. o. schmidti (Mittleman 1940) – Big Bend Tree Lizard
U. o. wrightii (Schmidt 1921) – Cliff Tree Lizard

Uta Baird and Girard 1852– Side-blotched Lizards

Uta stansburiana Baird and Girard 1852 – Common Side-blotched Lizard
U. s. stejnegeri Schmidt 1921 – Eastern Side-blotched Lizard
U. s. uniformis Pack and Tanner 1970 – Plateau Side-blotched Lizard

Family Gekkonidae –Geckos

Coleonyx Gray 1845 – Banded Geckos

Coleonyx brevis Stejneger 1893 – Texas Banded Gecko
Coleonyx variegatus (Baird 1859 “1858”) – Western Banded Gecko
C. v. bogerti Klauber 1945 – Tucson Banded Gecko

Hemidactylus Gray 1825 – House Geckos

Hemidactylus turcicus (Linnaeus 1758) – Mediterranean House Gecko (NN)
H. t. turcicus (Linnaeus 1758) – Turkish House Gecko (NN)

Family Teiidae –Whiptails and Racerunners

Aspidoscelis Fitzinger 1843 – Whiptails and Racerunners

Aspidoscelis burti (Taylor 1938) – Canyon Spotted Whiptail
A. b. stictogramma (Burger 1950) – Giant Spotted Whiptail
Aspidoscelis dixonii (Scudday 1973) – Gray Checkered Whiptail (U)
Aspidoscelis exsanguis (Lowe 1956) – Chihuahuan Spotted Whiptail (U)
Aspidoscelis flagellicauda (Lowe and Wright 1964) – Gila Spotted Whiptail (U)

- Aspidoscelis gularis* (Baird and Girard 1852) – Eastern Spotted Whiptail
A. g. gularis (Baird and Girard 1852) – Texas Spotted Whiptail
Aspidoscelis gypsi (Wright and Lowe 1993) – Little White Whiptail
Aspidoscelis inornata (Baird 1859 “1858”) – Little Striped Whiptail
A. i. heptagramma (Axtell 1961) – Trans-Pecos Striped Whiptail
A. i. junipera (Wright and Lowe 1993) – Woodland Striped Whiptail
A. i. llanuras (Wright and Lowe 1993) – Plains Striped Whiptail
Aspidoscelis marmorata (Baird and Girard 1852) – Marbled Whiptail
A. m. marmorata (Baird and Girard 1852) – Western Marbled Whiptail
A. m. reticuloriens (Vance 1978) – Eastern Marbled Whiptail
Aspidoscelis neomexicana (Lowe and Zweifel 1952) – New Mexico Whiptail (U)
Aspidoscelis sexlineata (Linnaeus 1766) – Six-lined Racerunner
A. s. viridis (Lowe 1966) – Prairie Racerunner
Aspidoscelis sonorae (Lowe and Wright 1964) – Sonoran Spotted Whiptail (U)
Aspidoscelis tessellata (Say 1823) – Common Checkered Whiptail (U)
Aspidoscelis tigris (Baird and Girard 1852) – Tiger Whiptail
A. t. punctilinealis (Dickerson 1919) – Sonoran Tiger Whiptail
A. t. septentrionalis (Burger 1950) – Plateau Tiger Whiptail
Aspidoscelis uniparens (Wright and Lowe 1965) – Desert Grassland Whiptail (U)
Aspidoscelis velox (Springer 1928) – Plateau Striped Whiptail (U)

Family Scincidae – Skinks

- Eumeces* Wiegmann 1834 – Great Skinks
Eumeces callicephalus Bocourt 1879 – Mountain Skink
Eumeces multivirgatus (Hallowell 1857) – Many-lined Skink
E. m. epipleurotus Cope 1880 – Variable Skink
Eumeces obsoletus (Baird and Girard 1852) – Great Plains Skink

Family Anguidae – Glass and Alligator Lizards

- Elgaria* Gray 1838 – Western Alligator Lizards
Elgaria kingii Gray 1838 – Madrean Alligator Lizard
E. k. nobilis Baird and Girard 1852 – Arizona Alligator Lizard

Family Helodermatidae – Venomous Lizards

- Heloderma* Wiegmann 1829 – Gila Monsters and Beaded Lizards
Heloderma suspectum Cope 1869 – Gila Monster
H. s. suspectum Cope 1869 – Reticulate Gila Monster

Suborder Serpentes – Snakes

Family Leptotyphlopidae – Threadsnakes

- Leptotyphlops* Fitzinger 1843 – Threadsnakes
Leptotyphlops dissectus (Cope 1896) – New Mexico Threadsnake
Leptotyphlops humilis (Baird and Girard 1853) – Western Threadsnake
L. h. segregus Klauber 1939 – Trans-Pecos Threadsnake

Family Colubridae – Colubrid Snakes*Arizona* Kennicott 1859 – Glossy Snakes*Arizona elegans* Kennicott 1859 – Glossy Snake*A. e. elegans* Kennicott 1859 – Kansas Glossy Snake*A. e. philipi* Klauber 1946 – Painted Desert Glossy Snake*Bogertophis* Dowling and Price 1988 – Desert Ratsnakes*Bogertophis subocularis* (Brown 1901) – Trans-Pecos Ratsnake*B. s. subocularis* (Brown 1901) – Trans-Pecos Ratsnake*Coluber* Linnaeus 1758 – North American Racers*Coluber constrictor* Linnaeus 1758 – Eastern Racer*C. c. flaviventris* Say 1823 – Eastern Yellow-bellied Racer*C. c. mormon* Baird and Girard 1852 – Western Yellow-bellied Racer*Diadophis* Baird and Girard 1853 – Ring-necked Snakes*Diadophis punctatus* (Linnaeus 1766) – Ring-necked Snake*D. p. arnyi* Kennicott 1859 – Prairie Ring-necked Snake*D. p. regalis* Baird and Girard 1853 – Regal Ring-necked Snake*Elaphe* Fitzinger 1833 – Ratsnakes*Elaphe emoryi* (Baird and Girard 1853) – Great Plains Ratsnake*Gyalopion* Cope 1860 – Western Hook-nosed Snakes*Gyalopion canum* Cope 1860 – Chihuahuan Hook-nosed Snake*Heterodon* Latreille 1801 – North American Hog-nosed Snakes*Heterodon nasicus* Baird and Girard 1852 – Western Hog-nosed Snake*H. n. kernerlyi* Kennicott 1860 – Mexican Hog-nosed Snake*H. n. nasicus* Baird and Girard 1852 – Plains Hog-nosed Snake*Hypsiglena* Cope 1860 – Fangless Nightsnakes*Hypsiglena torquata* (Günther 1860) – Nightsnake*H. t. janii* (Dugès 1865) – Texas Nightsnake*H. t. loreala* Tanner 1944 – Mesa Verde Nightsnake*Lampropeltis* Fitzinger 1843 – Kingsnakes*Lampropeltis alterna* (Brown 1901) – Gray-banded Kingsnake*L. a. alterna* (Brown 1901) – Gray-banded Kingsnake*Lampropeltis getula* (Linnaeus 1766) – Common Kingsnake*L. g. californiae* (Blainville 1835) – California Kingsnake*L. g. splendida* (Baird and Girard 1853) – Desert Kingsnake*Lampropeltis pyromelana* (Cope 1867) – Sonoran Mountain Kingsnake*L. p. pyromelana* (Cope 1867) – Arizona Mountain Kingsnake*Lampropeltis triangulum* (Lacépède 1789) – Milksnake*L. t. celaenops* Stejneger 1902 – New Mexico Milksnake*Masticophis* Baird and Girard 1853 – Whipsnakes*Masticophis bilineatus* Jan 1863 – Sonoran Whipsnake*Masticophis flagellum* (Shaw 1802) – Coachwhip

- M. f. piceus* (Cope 1892) – Red Racer
M. f. testaceus (Say 1823) – Western Coachwhip
Masticophis taeniatus (Hallowell 1852) – Striped Whipsnake
M. t. taeniatus (Hallowell 1852) – Desert Striped Whipsnake
- Nerodia* Baird and Girard 1853 – North American Watersnakes
Nerodia erythrogaster (Forster 1771) – Plain-bellied Watersnake
N. e. transversa (Hallowell 1852) – Blotched Watersnake
- Opheodrys* Fitzinger 1843 – Greensnakes
Opheodrys vernalis (Harlan 1827) – Smooth Greensnake
- Pituophis* Holbrook 1842 – Gophersnakes, Bullsnares and Pinesnakes
Pituophis catenifer (Blainville 1835) – Gophersnake
P. c. affinis (Hallowell 1852) – Sonoran Gophersnake
P. c. deserticola Stejneger 1893 – Great Basin Gophersnake
P. c. sayi (Schlegel 1837) – Bullsnake
- Rhinocheilus* Baird and Girard 1853 – Long-nosed Snakes
Rhinocheilus lecontei Baird and Girard 1853 – Long-nosed Snake
R. l. lecontei Baird and Girard 1853 – Western Long-nosed Snake
R. l. tessellatus Garman 1883 – Texas Long-nosed Snake
- Salvadora* Baird and Girard 1853 – Patch-nosed Snakes
Salvadora grahamiae Baird and Girard 1853 – Eastern Patch-nosed Snake
S. g. grahamiae Baird and Girard 1853 – Mountain Patch-nosed Snake
Salvadora hexalepis (Cope 1866) – Western Patch-nosed Snake
S. h. deserticola Schmidt 1940 – Big Bend Patch-nosed Snake
- Senticolis* Dowling and Fries 1987 – Green Ratsnakes
Senticolis triaspis (Cope 1866) – Green Ratsnake
S. t. intermedia (Boettger 1883) – Northern Green Ratsnake
- Sonora* Baird and Girard 1853 – North American Groundsnakes
Sonora semiannulata Baird and Girard 1853 – Groundsnake
S. s. semiannulata Baird and Girard 1853 – Variable Groundsnake
- Tantilla* Baird and Girard 1853 – Black-headed Snakes
Tantilla hobartsmithi Taylor 1937 – Smith's Black-headed Snake
Tantilla nigriceps Kennicott 1860 – Plains Black-headed Snake
Tantilla yaquia Smith 1942 – Yaqui Black-headed Snake
- Thamnophis* Fitzinger 1843 – North American Gartersnakes
Thamnophis cyrtopsis (Kennicott 1860) – Black-necked Gartersnake
T. c. cyrtopsis (Kennicott 1860) – Western Black-necked Gartersnake
Thamnophis elegans (Baird and Girard 1853) – Terrestrial Gartersnake
T. e. vagrans (Baird and Girard 1853) – Wandering Gartersnake
Thamnophis eques (Reuss 1834) – Mexican Gartersnake
T. e. megalops (Kennicott 1860) – Northern Mexican Gartersnake

Thamnophis marcianus (Baird and Girard 1853) – Checkered Gartersnake
T. m. marcianus (Baird and Girard 1853) – Marcy’s Checkered Gartersnake
Thamnophis proximus (Say 1823) – Western Ribbonsnake
T. p. diabolicus Rossman 1963 – Arid Land Ribbonsnake
Thamnophis radix (Baird and Girard 1853) – Plains Gartersnake
Thamnophis rufipunctatus (Cope 1875) – Narrow-headed Gartersnake
Thamnophis sirtalis (Linnaeus 1758) – Common Gartersnake
T. s. dorsalis (Baird and Girard 1853) – New Mexico Gartersnake
T. s. parietalis (Say 1823) – Red-sided Gartersnake

Trimorphodon Cope 1861 – Lyresnakes
Trimorphodon biscutatus (Duméril, Bibron, and Duméril 1854) – Western Lyresnake
T. b. lambda Cope 1886 – Sonoran Lyresnake
T. b. wilkinsonii Cope 1886 – Texas Lyresnake

Tropidoclonion Cope 1860 – Lined Snakes
Tropidoclonion lineatum (Hallowell 1856) – Lined Snake

Family Elapidae – Coralsnakes

Micruroides Schmidt 1928 – Sonoran Coralsnakes
Micruroides euryxanthus (Kennicott 1860) – Sonoran Coralsnake
M. e. euryxanthus (Kennicott 1860) – Arizona Coralsnake

Family Viperidae – Vipers

Crotalus Linnaeus 1758 – Rattlesnakes
Crotalus atrox Baird and Girard 1853 – Western Diamond-backed Rattlesnake
Crotalus lepidus (Kennicott 1861) – Rock Rattlesnake
C. l. klauberi Gloyd 1936 – Banded Rock Rattlesnake
C. l. lepidus (Kennicott 1861) – Mottled Rock Rattlesnake
Crotalus molossus Baird and Girard 1853 – Black-tailed Rattlesnake
C. m. molossus Baird and Girard 1853 – Northern Black-tailed Rattlesnake
Crotalus oreganus Holbrook 1840 – Western Rattlesnake
C. o. cerberus (Coues 1875) – Arizona Black Rattlesnake
Crotalus scutulatus (Kennicott 1861) – Mohave Rattlesnake
C. s. scutulatus (Kennicott 1861) – Northern Mohave Rattlesnake
Crotalus tigris Kennicott 1859 – Tiger Rattlesnake**
Crotalus viridis (Rafinesque 1818) – Prairie Rattlesnake
C. v. nuntius Klauber 1935 – Hopi Rattlesnake
C. v. viridis (Rafinesque 1818) – Green Prairie Rattlesnake
Crotalus willardi Meek 1905 – Ridge-nosed Rattlesnake
C. w. obscurus Harris and Simmons 1976 – New Mexico Ridge-nosed Rattlesnake

Sistrurus Garman 1883 – Pygmy Rattlesnakes
Sistrurus catenatus Rafinesque 1818 – Massasauga
S. c. edwardsii (Baird and Girard 1853) – Desert Massasauga

Appendix B

LIST OF STATE AND FEDERALLY PROTECTED HERPETOFAUNA IN NEW MEXICO

The following New Mexico species or subspecies are protected by the U.S. Fish and Wildlife Service under the Endangered Species Act as either Federal Endangered (FE) or Federal Threatened (FT), and/or by the New Mexico Department of Game and Fish under the New Mexico Wildlife Conservation Act as either State Endangered (SE) or State Threatened (ST). Species that are classified by the U.S. Fish and Wildlife Service as Candidates (C) for federal listing are also indicated. Common and scientific names are consistent with those in Section 3 of the supplemental bibliography, but may differ from some provided in Appendix A, which are based on recent taxonomic revisions. Other scientific names (synonyms) or common names are also indicated where more than one name is in current use.

Amphibians:

Jemez Mountains Salamander, *Plethodon neomexicanus* (SE)*
 Sacramento Mountains Salamander, *Aneides hardii* (ST)
 Colorado River Toad (= Sonoran Desert Toad), *Bufo alvarius* (ST)
 Boreal (Western) Toad, *Bufo boreas boreas* (SE, C)
 Great Plains Narrow-mouthed Toad, *Gastrophryne olivacea* (SE)
 Chiricahua Leopard Frog, *Rana chiricahuensis* (FT)
 Lowland Leopard Frog, *Rana yavapaiensis* (SE)

Reptiles:

Western River Cooter (= Rio Grande Cooter), *Pseudemys gorzugi* (ST)
 Sand Dune Lizard (= Dunes Sagebrush Lizard), *Sceloporus arenicolus* (SE, C) **
 Slevin's Bunchgrass Lizard, *Sceloporus slevini* (= *S. scalaris slevini*) (ST)
 Canyon Spotted Whiptail, *Cnemidophorus burti* (= *Aspidoscelis burti*) (ST)
 Gray Checkered Whiptail, *Cnemidophorus dixonii* (= *Aspidoscelis dixonii*) (SE)
 Mountain Skink, *Eumeces callicephalus* (= *E. tetragrammus*) (ST)
 Gila Monster, *Heloderma suspectum* (SE)
 Gray-banded Kingsnake, *Lampropeltis alterna* (SE)
 Plain-bellied Watersnake, *Nerodia erythrogaster* (SE)
 Green Ratsnake, *Senticolis triaspis* (ST)
 Mexican Gartersnake, *Thamnophis eques* (SE)
 Western Ribbonsnake, *Thamnophis proximus* (ST)
 Narrow-headed Gartersnake, *Thamnophis rufipunctatus* (ST)
 Mottled Rock Rattlesnake, *Crotalus lepidus lepidus* (ST)
 New Mexico Ridge-nosed Rattlesnake, *Crotalus willardi obscurus* (FT, SE)

* = uplisted to SE from ST in Sept. 2004.

** = uplisted to SE from ST in March 2005.

Current as of September 2005