

LITERATURE CITED

- Alcorn, J.R. 1988. Birds of Nevada. Fairview West Publishers, Fallon, Nevada.
- American Ornithologists' Union. 1998. Check-list of North American birds. 7th edition. American Ornithologists' Union, Washington, D.C.
- Andrews, R., and R. Righter. 1992. Colorado birds. Denver Museum of Natural History, Colorado.
- Arizona Game and Fish Department. 2005a. Arizona's Comprehensive Wildlife Conservation Strategy: 2005-2015. Available on-line at: http://www.gf.state.az.us/w_c/cwcs.shtml. Last accessed: April 2006.
- Arizona Game and Fish Department. 2005b. Arizona's Comprehensive Wildlife Conservation Strategy: State of the State (Companion Document B). Arizona Game and Fish Department, Phoenix, Arizona.
- Austin, M.P. 1991. Vegetation: Data collection and analysis. Pages 37-41 in C.R. Margules and M.P. Austin, editors, Nature conservation: Cost effective biological surveys and data analysis. Australia CSIRO, East Melbourne.
- Bailey, R.G., P.E. Avers, T. King and W.H. McNab, 1994. Ecoregions and subregions of the United States (1:7,500,000 map). With supplementary table of map unit descriptions, compiled and edited by W.H. McNab and R.G. Bailey. USDA Forest Service, Washington D.C.
- Bailey, R.G. 1995. Descriptions of the ecoregions of the United States. *U.S. Forest Service Miscellaneous Publication # 1391 (Revised), with Separate Map at a Scale of 1:7,500,000*. U.S. Department of the Interior, Forest Service, Washington D.C.
- Bauer, M.E., T.E. Burk, A.R. Ek, P.R. Coppin,, S.D. Lime, T.A. Walsh, D.K. Walters, W. Befort, and D.F. Heizen, 1994. Satellite inventory of Minnesota forest resources. *Photogrammetric Engineering and Remote Sensing* 60(3): 287-298.
- Beardsley, K., and D. Stoms. 1993. Compiling a digital map of areas managed for biodiversity in California. *Natural Areas Journal* 13(3): 177-190.
- Bender, D.J., C.H. Flather, K.R. Wilson, and C. Gordon. 2005. Regional data to support biodiversity assessments: terrestrial vertebrate and butterfly data from the Southwest. General Technical Report RMRS-GTR-152. Fort Collins, CO, US. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 42 pp.
- Bolger, D.T., T.A. Scott, J.T. Rotenberry 1997. Breeding Bird Abundance in an Urbanizing Landscape in Coastal Southern California. *Conservation Biology* 11: 406-421.
- Bonham-Carter, G. F. 1994. Geographic information systems for geoscientists: modeling with GIS. Pergamon, Elsevier Science Inc., Tarrytown, NY, USA, pp.285-302.
- Bourgeron, P.S., H.C. Humphries, R.L. DeVelice, and M.E. Jensen. 1994. Ecological theory in relation to landscape and ecosystem characterization. Pages 58-72 in M.E. Jensen and P.S. Bourgeron, editors, *Ecosystem management: Principles and applications*, Volume II. Gen. Tech. Rep. PNW-GTR-318. USDA Forest Service, Pacific Northwest Research Station, Portland, Oregon. 376 pp.
- Boykin, K.G., C. Drost, and J.J. Wynne. 2007. A Gap Analysis of Terrestrial Vertebrate Species of the Colorado Plateau: Assessment from the Southwest Gap Analysis Project. In C. van Riper III and M. Sogge (eds). *The Colorado Plateau III: Socioeconomic, Biological, and Cultural Research*. The University of Arizona Press, Tucson, AZ.
- Breiman, L., J.H. Friedman, R.A. Olshen, and C. J. Stone, 1984. Classification and regression trees. Wadsworth, Inc. Belmont, CA.
- Brown de Colstoun, E.C., M.H. Story, C. Thompson, K. Commisso, T.G. Smith, and J.R. Irons, 2003. National Park vegetation mapping using multi-temporal Landsat & data and a decision tree classifier. *Remote Sensing of Environment* 85, 316-327.
- Brugnach, M. J. Bolte, and G.A. Bradshaw. 2000. Determining the significance of threshold values uncertainty in rule-based classification models. *Ecological Modelling* 160:63-76.
- Burrough, P.A., and R.A. McDonnell. 1998. Principles of geographical information systems. Oxford University Press, New York, NY, USA, pp.265 - 291.
- Channell, R. and M.V. Lomolino. 2000. Dynamic biogeography and conservation of endangered species. *Nature* 403: 84-86.

- Chavez, P.S. Jr. 1996. Image-based atmospheric corrections—Revisited and improved. *Photogrammetric Engineering and Remote Sensing* 62(9): 1025-1036.
- Clark, L.A. and D. Pregibon, Tree-based Models. In J.M. Chambers & T.J. Hastie (Eds.). *Statistical Models* in S. Pacific Grove, CA: Wadsworth and Brooks; 1992; pp. 377-420.
- Cockrum, E.L. 1960. *The Recent Mammals of Arizona - Their Taxonomy and Distribution*. The University of Arizona Press, Tucson, Arizona. 276 pp.
- Colorado Division of Wildlife. 2005. Colorado's Comprehensive Wildlife Conservation Strategy. Colorado Division of Wildlife, Denver Colorado. Available on-line at: <http://wildlife.state.co.us/WildlifeSpecies/ComprehensiveWildlifeConservationStrategy/>. Last accessed: April 2006.
- Comer, P., D. Faber-Langendoen, R. Evans, S. Gawler, C. Josse, G. Kittel, S. Menard, S. Pyne, M. Reid, K. Schulz, K. Snowand, and J. Teague. 2003. Ecological systems of the United States: A working classification of U.S. terrestrial systems. NatureServe, Arlington, Virginia. <http://www.natureserve.org/library/usEcologicalsystems.pdf>
- Congalton, R.G. 1991. A review of assessing the accuracy of classifications of remotely sensed data. *Remote Sensing of Environment* 37: 35-46.
- Congalton, R.G. and K. Green. 1999. *Assessing the accuracy of remotely sensed data: principles and practices*. Boca Raton: Lewis Publishers.
- Crist, P., B. Thompson, and J. Prior-Magee. 1995. A dichotomous key of land management categorization, unpublished. New Mexico Cooperative Fish and Wildlife Research Unit, Las Cruces, New Mexico.
- Crist, P., B. Thompson, and J. Prior-Magee. 1996. Land management status categorization for Gap Analysis: A potential enhancement. Gap Analysis Bulletin #5, U.S. Geological Survey, Moscow, ID.
- Crist, P., and R. Deitner, 2000. Assessing land cover map accuracy. Version 2.0.0. (16 February 2000). A handbook for conducting Gap Analysis.
- Csuti, B., S. Polasky, P.H. Williams, R.L. Pressey, J.D. Camm, M. Kershaw, A.R. Kiester, B. Downs, R. Hamilton, M. Huso, and K. Sahr. 1997. A comparison of reserve selection algorithms using data on terrestrial vertebrates in Oregon. *Biological Conservation* 80:83-97.
- Csuti, B. 1994. Methods for developing terrestrial vertebrate distribution maps for Gap Analysis (version 1). In J.M. Scott and M.D. Jennings, editors. A handbook for Gap Analysis. Idaho Cooperative Fish and Wildlife Research Unit, University of Idaho, Moscow.
- Davis, F.W., P.A. Stine, D.M. Stoms, M.I. Borchert, and A.D. Hollander. 1995. Gap Analysis of the actual vegetation of California - 1. The southwestern region. *Madroño* 42:40-78.
- DeFries, R.S., M. Hansen, J.R.G. Townshend and R. Sohlberg, 1998. Global land cover classifications at 8 km spatial resolution: the use of training data derived from Landsat imagery in decision tree classifiers. *International Journal of Remote Sensing* 19: 3141-3168.
- Degenhardt, W.G., C.W. Painter, and A.H. Price. 1996. *The amphibians and reptiles of New Mexico*. University of New Mexico Press, Albuquerque.
- Deitner, R.A., B.C. Thompson, and J.S. Prior-Magee. 1999. Assessing Inter-project compatibility and information distribution for conservation planning using New Mexico Gap Analysis Data. Research Completion Report. New Mexico Cooperative Fish and Wildlife Research Unit. 25 pp.
- DesertUSA(a). *Chihuahuan Desert*. Available on-line: http://www.desertusa.com/du_chihua.html [January 2006].
- DesertUSA(b). *Great Basin Desert*. Available on-line: http://www.desertusa.com/du_basin.html [January 2006].
- DesertUSA(c). *Mojave Desert*. Available on-line: http://www.desertusa.com/du_mojave.html [January 2006].
- DesertUSA(d) *Sonoran Desert*. Available on-line: http://www.desertusa.com/du_sonoran.html [January 2006].
- Diamond, J. 1986. The design of a nature reserve system for Indonesian New Guinea. Pages 485-503 in M.E. Soulé, editor. *Conservation biology: The science of scarcity and diversity*. Sinauer Associates, Sunderland, Massachusetts.
- Di Gregorio, A. and L.J.M. Jansen, 2000. Land cover classification system (LCCS): Classification concepts and user manual. Environment and Natural Resources Service, GCP/RAF/287/ITA

- Africover – East Africa Project and Soil Resources, Management and Conservation Service. FAO, Rome.
- Drake, J., and D. Faber-Langendoen. 1997. An alliance-level classification of the vegetation of the Midwestern United States. A report prepared by The Nature Conservancy Midwest Conservation Science Department for the University of Idaho Cooperative Fish and Wildlife Research Unit. The Nature Conservancy Midwest Regional Office, Minneapolis, Minnesota, USA.
- Driscoll, R.S., D.L. Merkel, J.S. Hagihara, and D.L. Radloff. 1983. A component land classification for the United States: Status report. Technical Note 360. U.S. Department of the Interior, Bureau of Land Management, Denver, Colorado.
- Driscoll, R.S., D.L. Merkel, D.L. Radloff, D.E. Snyder, and J.S. Hagihara. 1984. An ecological land classification framework for the United States. Miscellaneous Publication 1439. USDA Forest Service, Washington, DC.
- Durrant, S.D. 1952. Mammals of Utah – taxonomy and distribution. University of Kansas Publications, Museum of Natural History 6:1-549.
- Edwards, T.C., Jr., C.H. Homer, S.D. Bassett, A. Falconer, R.D. Ramsey, and D.W. Wight. 1995. Utah Gap Analysis: An environmental information system. Technical Report 95-1, Utah Cooperative Fish and Wildlife Research Unit, Utah State University, Logan, Utah.
- Ernst, A., and J. Prior-Magee. 2007. Conservation Assessment of the Colorado Plateau using Southwest Regional Gap Analysis Stewardship Data. In C. van Ripper III and M. Sogge (eds). The Colorado Plateau III: Socioeconomic, Biological, and Cultural Research. The University of Arizona Press, Tucson, AZ.
- Falzarano, S. R. and K. A. Thomas. 2004. Fuzzy set and spatial analysis techniques for evaluating thematic accuracy of a land-cover map. In Remote Sensing and GIS Accuracy Assessment R. S. Lunetta and J. G. Lyon, editors. CRC Press, Boca Raton, FL.
- Federal Geographic Data Committee (FGDC). 1994. Content standards for digital geospatial metadata. 8 June 1994. Federal Geographic Data Committee, Washington, DC.
- Federal Geographic Data Committee. 1995. Content standards for digital geospatial metadata workbook, FGDC, Washington, DC.
- Federal Geographic Data Committee, Vegetation Subcommittee. 1997. FGDC Vegetation Classification and Information Standards--June 3, 1996 Draft. FGDC Secretariat, Reston, Virginia. 35 pp.
- Feldhamer, G.A., B.C. Thompson, and J.A. Chapman (Editors). 2003. Wild Mammals of North America – Biology, Management, and Conservation. The Johns Hopkins University Press, Baltimore, Maryland. 1216 pp.
- Findley, J.S., A.H. Harris, D.E. Wilson, and C. Jones. 1975. Mammals of New Mexico. University of New Mexico Press, Albuquerque.
- Findley, James S. 1987. The Natural History of New Mexican Mammals. University of New Mexico Press, Albuquerque, New Mexico. 164 pp.
- Fitzgerald, J.P., C.A. Meaney, and D.M. Armstrong. 1994. Mammals of Colorado. Denver Museum of Natural History, Denver and University Press of Colorado, Niwot, Colorado.
- Flather, C.H., Knowles, M.S., Kendall, I.A. 1998. Threatened and endangered species geography: characteristics of hot spots in the conterminous United States. *BioScience* 48(5): 365-376.
- Flather, C.H., K.R. Wilson, D.J. Dean, and W.C. McComb. 1997. Identifying gaps in conservation networks: Of indicators and uncertainty in Geographic-based Analysis. *Ecological Applications* 7:531-542.
- Foody, G., 2002. Status of land cover classification accuracy assessment. *Remote Sensing of Environment* 80: 185-201.
- Forman, R.T.T., and M. Godron. 1986. Landscape ecology. John Wiley and Sons, New York.
- Franklin, J.F. 1993. Preserving biodiversity: Species, ecosystems, or landscapes? *Ecological Applications* 3(2):202-205.
- Friedl, M.A., and C.E. Brodley, 1997. Decision tree classification of land cover from remotely sensed data. *Remote Sensing of Environment* 61:399-409.
- Friedl, M.A., C.E. Brodley, and A.H. Strahler, 1999. Maximizing land cover classification accuracies produced by decision trees at continental to global scales. *IEEE Transactions on Geoscience and Remote Sensing* 37(2): 969-977.
- Friedl, M. A., D.K. McIver, J.C.F. Hodges, X.Y. Zhang, D. Muchoney, A.H. Strahler, C.E. Woodcock, S. Gopal, A. Schneider, A. Cooper, A. Baccini, F. Gao, and C. Schaaf, 2002. Global land cover

- mapping from MODIS: algorithms and early results. *Remote Sensing of Environment* 83:287-302.
- Gap Analysis Program. 2000. A handbook for conducting Gap Analysis. USGS Gap Analysis Program, Moscow, Idaho. <http://www.gap.uidaho.edu/gap/handbook>.
- Garrard, C.M., 2003. Kappa tool user's guide. Unpublished document. RSGIS Laboratories, Utah State University. <http://bioweb.usu.edu/chrisg/download/>.
- Gonzalez-Rebeles, C., B.C. Thompson, and F.C. Bryant. 2002. Influence of selected environmental Variables on GIS-habitat models used for gap analysis. Pages 639-651 in J.M. Scott, P.J. Heglund, M.L. Morrison et al., editors. Predicting species occurrences: Issues of accuracy and scale. Island Press, Washington, D.C. 868 pp.
- Gopal, S. and C. Woodcock., 1994. Theory and methods for accuracy assessment of thematic maps using fuzzy sets. *Photogrammetric Engineering and Remote Sensing* Vol. 60, No. 2: 181-188.
- Goutte, C., 1997. Note on free lunches and cross-validation, *Neural Computation*, 9, 1211-1215.
- Green, D.M. 2005. Biology of amphibian declines. In: Lannoo, M. (ed). Amphibian Declines: The conservation status of United States Species. University of California Press, Berkeley, CA. Pages 28-33.
- Grossman, D., K.L. Goodin, X. Li, C. Wisniewski, D. Faber-Langendoen, M. Anderson, L. Sneddon, D. Allard, M. Gallyoun, and A. Weakley. 1994. Standardized national vegetation classification system. Report by The Nature Conservancy and Environmental Systems Research Institute for the NBS/NPS Vegetation Mapping Program. National Biological Service, Denver, Colorado.
- Grossman, D.H., D. Faber-Langendoen, A.S. Weakley, M. Anderson, P. Bourgeron, R. Crawford, K. Goodin, S. Landaal, K. Metzler, K.D. Patterson, M. Pyne, M. Reid, and L. Sneddon. 1998. International classification of ecological communities: terrestrial vegetation of the United States. Volume 1. The National Vegetation Classification System: development, status, and applications. The Nature Conservancy, Arlington, Virginia, USA.
- Hall, E.R. 1946. Mammals of Nevada. University of Nevada Press, Las Vegas, Nevada. 710 pp.
- Hall, E.R. 1981. The mammals of North America, 2nd ed. Wiley Interscience, New York, N.Y.
- Halvorson, W.L., K. Thomas, L. Graham, M.R. Kunzmann, P.S. Bennett, C. Van Riper, and C. Drost. 2002. The Arizona GAP analysis project final report. U.S. Geological Survey, Biological Resources Division, Western Ecological Research Center, University of Arizona. Tucson, AZ. 166p.
- Hammerson, G.A. 1999. Amphibians and reptiles of Colorado. 2nd edition. University Press of Colorado, Niwot and Colorado Division of Wildlife, Denver.
- Hansen, M., R. Dubayah, and R. DeFries, 1996. Classification trees: An alternative to traditional land cover classifiers. *International Journal of Remote Sensing* 17(5): 1075-1081.
- Hansen, M.C., R.S. DeFries, J.R.G. Townsend, and R. Sohlberg, 2000. Global land cover classification at 1 km spatial resolution using a classification tree approach. *International Journal of Remote Sensing* 21(6,7): 1331-1364.
- Hayward, C.L., C. Cottam, A.M. Woodbury, and H.H. Frost. 1976. Birds of Utah. Brigham Young University Press, Provo, Utah.
- Hill, K.E. and M.W. Binford. 2002. The role of category definition in habitat models: practical and logical limitations of using Boolean, indexed, probabilistic, and fuzzy categories. In: Scott, J.M, P.J. Heglund, M.L. Morrison, J.B. Haufler, M.G. Raphael, W.A. Wall, and F.B. Samson. Predicting Species Occurrence: Issues of Accuracy and Scale. Island Press, Washington. 868 pp.
- Hoffmeister, D.R. 1986. Mammals of Arizona. University of Arizona Press, Tucson.
- Hollings, C.S. 1992. Cross-scale morphology, geometry, and dynamics of ecosystems. *Ecological Monographs* 62:447-502.
- Holt, R.D. and T.H. Keitt. 2005. Species' borders: A unifying theme in ecology. *Oikos* 108: 3-6.
- Homer, C., C. Huang, L. Yang, B. Wylie, and M. Coan. 2004. Development of a 2001 national land cover database for the United States. *Photogrammetric Engineering and Remote Sensing* 70(7):829-840.
- Homer, C.G., R.D. Ramsey, T.C. Edwards, Jr., and A. Falconer, 1997. Landscape cover-type modeling using a multi-scene Thematic Mapper mosaic. *Photogrammetric Engineering and Remote Sensing* 63(1): 59-67.
- Homer, Collin and Thomas Edwards. 1996. Nevada GAP vegetation data layer. Utah Cooperative Fish and Wildlife Research Unit, Utah State University, Logan Utah.

- Huang, C., B. Wylie, C. Homer, L. Yang, and G. Zylstra, 2002. Derivation of a Tasseled cap transformation based on Landsat 7 at-satellite reflectance. *International Journal of Remote Sensing* 23(8): 1741-1748.
- Hutchingson, C. 1982. Techniques for combining Landsat and ancillary data for digital classification improvement. *Photogrammetric Engineering and Remote Sensing* 48:123-130.
- Jaeger, J.R., B.R. Riddle, and D.F. Bradford. 2005. Cryptic Neogene vicariance and Quaternary dispersal of the red-spotted toad (*Bufo punctatus*): insights on the evolution of North American warm desert biotas. *Molecular Ecology* 14(10): 3033-3048.
- Jenkins, R.E. 1985. Information methods: Why the Heritage Programs work. *The Nature Conservancy News* 35(6):21-23.
- Jenness Enterprises. 2005. Random Point Generator, v 1.3. ArcView Script. Internet WWW URL at http://www.jennessent.com/arcview/random_points.htm.
- Jennings, M.D. 1993. Natural terrestrial cover classification: Assumptions and definitions. Gap Analysis Technical Bulletin 2. Idaho Cooperative Fish and Wildlife Research Unit, University of Idaho, Moscow.
- Jensen, J.R. 2005. *Introductory Digital Image Processing.: A Remote Sensing Perspective*. Third Edition. Upper Saddle River, NJ, Prentice Hall.
- Johnson, D. 2001. Validating and Evaluating Models. In: Shenk, T.M. and A.B. Franklin Modeling in Natural Resource Management: Development, Interpretation and Application. Island Press.
- Kingery, H.E. editor. 1998. Colorado breeding bird atlas. Colorado Bird Atlas Partnership and Colorado Division of Wildlife, Denver.
- Kirkpatrick, J.B. 1983. An iterative method for establishing priorities for the selection of nature reserves: An example from Tasmania. *Biological Conservation* 25:127-134.
- Küchler, A.W., and I.S. Zonneveld, editors. 1988. Vegetation mapping. Kluwer Academic Publishers, Dordrecht, The Netherlands. 635 pp.
- Laba, M., S.K. Gregory, J. Braden, D. Ogurcak, E. Hill, E. Fegraus, J. Fiore, and S.D. DeGloria. 2002. Conventional and fuzzy accuracy assessment of the New York Gap Analysis Project land cover map. *Remote Sensing of Environment*. 81:443-455.
- Langs, L.A., K.A. Thomas, J.H. Lowry, and K.A. Schulz. 2007. A Gap analysis of land cover for the Colorado Plateau: Implications from the Southwest Regional Gap Analysis Project. In C. van Ripper III and M. Sogge (eds). The Colorado Plateau III: Socioeconomic, Biological, and Cultural Research. The University of Arizona Press, Tucson, AZ.
- Lannoo, M.J., ed. 2005. Amphibian Declines: Status and Conservation of United States Species. University of California Press, Berkeley, CA.
- Lawrence, R.L. and A. Wright. 2001. A. Rule-based classification systems using classification and regression trees (CART) analysis. *Photogrammetric Engineering and Remote Sensing* 67(10):1137-1142.
- Lawrence, R., A. Bunn, S. Powell, S., and M. Zambon, M. 2004. Classification of remotely sensed imagery using stochastic gradient boosting as a refinement of classification tree analysis. *Remote Sensing of Environment* 90:331-336.
- Levin, S.A. 1981. The problem of pattern and scale in ecology. *Ecology* 73:1942-1968.
- Ligon, J.S. 1961. New Mexico Birds and Where to Find Them. The University of New Mexico Press, Albuquerque, New Mexico. 360 pp.
- Lillesand, T.M. 1996. A protocol for satellite-based land cover classification in the Upper Midwest. Pages 103-118 in J.M. Scott, T.H. Tear, and F.W. Davis, editors. Gap Analysis: A Landscape Approach to Biodiversity Planning. ASPRS, 320 pp.
- Lillesand, T.M. and R.W. Kiefer. 2000. Remote Sensing and Image Interpretation. Fourth Edition. John Wiley & Sons, Inc., New York.
- Lins, K.S., and R.L. Kleckner. 1996. Land cover mapping: An overview and history of the concepts. Pages 57-65 in J.M. Scott, T.H. Tear, and F. Davis, editors, Gap Analysis: A landscape approach to biodiversity planning. American Society for Photogrammetry and Remote Sensing, Bethesda, Maryland.
- Lowe, C.H. 1964. The vertebrates of Arizona. University of Arizona Press, Tucson.
- Lowe, C.H., C.R. Schwalbe, and T.B. Johnson. 1986. The venomous reptiles of Arizona. Arizona Game and Fish Department, Phoenix.

- Ma, Z., M.M. Hart, and R.L. Redmond. 2001. Mapping vegetation across large geographic areas: Integration of remote sensing and GIS to classify multisource data. *Photogrammetric Engineering and Remote Sensing* Vol. 67, No. 3, 295-307.
- Manis, G., C. Homer, R.D. Ramsey, J. Lowry, T. Sajwaj, and S. Graves. 2000. The development of mapping zones to assist in land cover mapping over large geographic areas: A case study of the Southwest ReGAP project. GAP Analysis Bulletin No. 9. U.S. Geological Survey, Biological Resources Division. <http://www.gap.uidaho.edu/Bulletins/9/bulletin9/default.html>
- Manis, G., J. Lowry, J. and R.D. Ramsey, 2001. Pre-classification: An ecologically predictive landform model. GAP Analysis Bulletin No. 10. U.S. Geological Survey, Biological Resources Division. <http://www.gap.uidaho.edu/Bulletins/10/preclassification.htm>
- Margules, C.R., A.O. Nicholls, and R.L. Pressey. 1988. Selecting networks of reserves to maximize biological diversity. *Biological Conservation* 43:63-76.
- McIver, D.K. and M.A. Friedl. 2002. Using prior probabilities in decision tree classification of remotely sensed data. *Remote Sensing of Environment* 81: 253-261.
- Miller, K.R., 1984. The Bali Action plan: A framework for the future of protected areas. In *National Parks, conservation, and development*, edited by J.A. McNeely and K.R. Miller, 756-764. Smithsonian Institution Press, Washington D.C.
- Miller, K.R. 1994. In J.A. McNeely and K.R. Miller, editors. National parks conservation and development. Smithsonian Institution, Washington, DC.
- Monson, G., and A.R. Phillips. 1981. Annotated checklist of the birds of Arizona. 2nd edition, University of Arizona Press, Tucson.
- Morin, N. 1995. Vascular plants of the United States. In *Our living resources: a report to the nation on the distribution, abundance, and health of U.S. plants, animals, and ecosystems*, edited by E.T. LaRoe, G.S. Farris, C.E. Puckett, P.D. Doran, and M. J. Mac, 200-205. U.S. Department of the Interior, National Biological Service, Washington, D.C.
- Mueller-Dombois, D., and H. Ellenberg. 1974. Aims and methods of vegetation ecology. John Wiley & Sons, New York. 547 pp.
- Nevada Department of Wildlife. 2005. Nevada Wildlife Action Plan. Nevada Department of Wildlife. Reno, Nevada. Available on-line at: <http://www.ndow.org/wild/conservation/cwcs/>. Last accessed: April 2006.
- New Mexico Department of Game and Fish. 2005. Comprehensive Wildlife Conservation Strategy for New Mexico. New Mexico Department of Game and Fish. Santa Fe, New Mexico. 526 pp + appendices. Available on-line at: <http://fws-nmcfwru.nmsu.edu/cwcs/>. Last accessed: April 2006.
- Nicholls, A.O., and Margules. 1993. An upgraded reserve selection algorithm. *Biological Conservation* 64:165-169.
- Noss, R.F. 1987. From plant communities to landscapes in conservation inventories: A look at The Nature Conservancy (USA). *Biological Conservation* 41:11-37.
- Noss, R.F. 1990. Indicators for monitoring biodiversity: A hierarchical approach. *Conservation Biology* 4:355-364.
- Noss, R.F. 1991. Report to the Fund for Animals in Washington, DC.
- Noss, R.F., and A.Y. Cooperrider. 1994. Saving nature's legacy. Island Press, Washington, DC.
- Noss, R.F., E.T. LaRoe III, and J.M. Scott. 1995. Endangered ecosystems of the United States: A preliminary assessment of loss and degradation. Biological Report 28, National Biological Service, Washington, DC.
- O'Brien, L.E. 2005. A method to quantify and depict uncertainty in wildlife habitat suitability models using Bayesian inference and expert opinion. M.S. Thesis, Colorado State University, Fort Collins.
- The Official Website of the State of Utah. Utah History to Go: The Land. Available on-line: http://historytogo.utah.gov/utah_chapters/the_land/index.html [September 2005].
- Odum, E.D., and H.T. Odum. 1972. Natural areas as necessary components of man's total environment. *Proceeding of the North American Wildlife and Natural Resources Conference*. 39:178-189.
- Odum, E.D., and H.T. Odum. 1972. Proceedings of the North American Wildlife and Natural Resources Conference 39:178.
- Omernik, J.M. 1987. Ecoregions of the conterminous United States. Map (scale 1:7,500,000). *Annals of the Association of American Geographers* 77(1):118-125.
- Pal, M. and P.M. Mather. 2003. An assessment of the effectiveness of decision tree methods for land cover classification. *Remote Sensing of Environment* 86, 554-565.

- Pearce, J. and S. Ferrier. 2000. Evaluating the predictive performance of habitat models developed using logistic regression. *Ecological Modeling*. 133:225-245.
- Penhollow, M.E., and D.F. Stauffer. 2000. Large-scale habitat relationships of neotropical migratory birds in Virginia. *Journal of Wildlife Management* 64: 362-373.
- Peterson, A.T. 2005. Kansas Gap Analysis: the importance of validating distributional models before using them. *Southwestern Naturalist* 50:230-236.
- Phillips, A.R., J. Marshall, and G. Monson. 1964. The birds of Arizona. University of Arizona Press, Tucson.
- Phillips, A.R., J. Marshall, and G. Monson. 1983. The birds of Arizona. University of Arizona Press, Tucson.
- Phillips, S.J., R.P. Anderson, and R.E. Shapire. 2006. Maximum entropy modeling of species geographic distribution. *Ecological Modeling* 190:231-259.
- Poole, A.F., P. Stettenheim, and F.B. Gill (Editors). 1992. The Birds of North America. The American Ornithologists' Union and the Academy of Natural Sciences of Philadelphia, Philadelphia, Pennsylvania.
- Pressey, R.L., and A.O. Nicholls. 1989. Application of a numerical algorithm to the selection of reserves in semi-arid New South Wales. *Biological Conservation* 50:263-278.
- Pressey, R.L., C.J. Humphries, C.R. Margules, R.I. Vane-Wright, and P.H. Williams. 1993. Beyond opportunism: Key principles for systematic reserve selection. *Trends in Ecology and Evolution* 8:124-128.
- Pressey, R.L., and V.S. Logan. 1995. Reserve coverage and requirements in relation to partitioning and generalization of land classes: analyses for Western New South Wales. *Conservation Biology* 9(6):1506-1517.
- Quinlan, J.R. 1993. C4.5: programs for machine learning. San Mateo, CA: Morgan Kaufmann Publishers.
- Reese, H.M., T.M. Lillesand, D.E. Nagel, J.S. Stewart, R.A. Goldmann, T.E. Simmons, J.W. Chipman, and P.A. Tessar, 2002. Statewide land cover derived from multiseasonal Landsat TM data: A retrospective of the WISCLAND project. *Remote Sensing of Environment* 82: 224-237.
- Reid, M.S., K.A. Schulz, P.J. Comer, M.H. Schindel, D.R. Culver, D.A. Sarr, and M.C. Damm. 1999. Descriptions of vegetation alliances of the coterminous United States. The Nature Conservancy, Boulder, Colorado, USA.
- Reiners, W.A., K.L. Driese, & D. Schrupp. 2000. Statistical evaluation of Wyoming and Colorado landcover map thematic accuracy using aerial videography techniques. Final Report. Department of Botany, University of Wyoming, Laramie, WY. WWW page at URL: http://ndis1.nrel.colostate.edu/cogap/report/colandcov_acc.pdf
- Ricchetti, E. 2000. Multispectral satellite image and ancillary data integration for geological classification. *Photogrammetric Engineering and Remote Sensing* 66(4):429-435.
- Ride, W.L.D. 1975. In F. Fenner, editor. A national system of ecological reserves in Australia. 64 pp.
- Schrupp, D.L., W.A. Reiners, T.G. Thompson, L.E. O'Brien, J.A. Kindler, M.B. Wunder, J.F. Lowsky, J.C. Buoy, L. Satcowitz, A.L. Cade, J.D. Stark, K.L. Driese, T.W. Owens, S.J. Russo, and F. D'Erchia. 2000. Colorado Gap Analysis Program: A Geographic Approach to Planning for Biological Diversity - Final Report, USGS Biological Resources Division, Gap Analysis Program and Colorado Division of Wildlife, Denver, CO.
- Schwin, M.A., and L. Minden. 1979. Utah reptile and amphibian latilong distribution. Utah Department of Natural Resources, Division of Wildlife Resources, Salt Lake City. Publication No. 80-1.
- Scott, J.M., F. Davis, B. Csuti, R. Noss, B. Butterfield, C. Groves, H. Anderson, S. Caicco, F. D'Erchia, T.C. Edwards, Jr., J. Ulliman, and G. Wright. 1993. Gap analysis: A geographic approach to protection of biological diversity. *Wildlife Monographs* 123.
- Shtatland, E. S., K. Klienman and E.M. Cain. 2004. A new strategy of model building in PROC LOGISTIC with automatic variable selection, validation, shrinkage and model averaging. SUGI 29 Proceedings, paper 191-29. Montreal, Canada. WWW URL: <http://www2.sas.com/proceedings/sugi29/191-29.pdf>
- Smits, P. C., S.G. Dellepiane and R.A. Schowengerdt. 1999. Quality assessment of image classification algorithms for land-cover mapping a review and a proposal for a cost-based approach. *International Journal of Remote Sensing* 20 1461-1486.
- Sneddon, L., M. Anderson, and K. Metzler. 1994. A classification and description of terrestrial community alliances in The Nature Conservancy's Eastern Region: First approximation. Unpublished report to

- USDI Fish & Wildlife Service, Gap Analysis Program. The Nature Conservancy, Eastern Heritage Task Force, Boston, MA. 116 pp.
- Specht, R.L. 1975. The report and its recommendations. Pages 11-16 in: F. Fenner, editor, A national system of ecological reserves in Australia. Australian Academy of Sciences Report No. 19. Canberra, Australia.
- Specht, R.L., E.M. Roe, and V.H. Boughlon. 1974. Australian Journal of Botany Supplement Series. Supplement No. 7.
- Stebbins, R.C. 1985. A field guide to western reptiles and amphibians. 2nd edition, Houghton Mifflin, Boston, Massachusetts.
- Stehman, S.V. and R.L. Czaplewski. 1998. Design and analysis for thematic map accuracy assessment: Fundamental principles. *Remote Sensing of Environment* 64:331-344.
- Stoms, D.M., F.W. Davis, C.B. Cogan. 1992. Sensitivity of wildlife habitat models to uncertainties in GIS data. *Photogrammetric Engineering and Remote Sensing* 58:843-850.
- Stoms, D., and J. Estes. 1993. A remote sensing research agenda for mapping and monitoring biodiversity. *International Journal of Remote Sensing* 14:1839-1860.
- Stoms, D.M. 1994. Actual vegetation layer. In J.M. Scott and M.D. Jennings, editors. A handbook for Gap Analysis. Idaho Cooperative Fish and Wildlife Research Unit, University of Idaho, Moscow.
- Strong, T.R. and C.E. Bock. 1990. Bird Species Distribution Patterns in Riparian Habitats in Southeastern Arizona. *The Condor* 92:866-885.
- The Nature Conservancy. 2005. TNC Terrestrial Global Assessment Units, Ecoregions and Major Habitat Types - July 2005. Available on-line at: https://transfer.natureserve.org/download/longterm/Ecology/GIS_BASE_DATA. or at: <http://conserveonline.org/workspaces/ecoregional.shapefile/>. Last accessed: January 2006.
- Thomas, K.A., K.A. Schulz, and K.G. Boykin. (In Review). A Gap perspective of the Sonoran Desert Ecoregion. Proceedings of the Sixth Conference on Research and Resource Management in the Southwestern Deserts: Borders, Boundaries, and Time Scales.
- Thompson, B.C., P.J. Crist, J.S. Prior-Magee, R.A. Deitner, D.L. Garber, and M.A. Hughes. 1996. Gap analysis of biological diversity conservation in New Mexico using geographic information systems. Research completion report, New Mexico Cooperative Fish and Wildlife Research Unit, Las Cruces.
- Treitz, P. and P. Howarth. 2000. Integrating spectral, spatial, and terrain variables for forest ecosystem classification. *Photogrammetric Engineering and Remote Sensing* 66(3):305-317.
- UNESCO. 1973. International classification and mapping of vegetation. Paris.
- United States Geological Survey –National Park Service Vegetation Mapping Program. 1994. Field Methods for Vegetation Mapping. The Nature Conservancy and Environmental Systems Research Institute. December, 1994.
- United States Geological Survey(a). *Geologic Provinces of the United States: Colorado Plateau*. Available on-line: <http://wrgis.wr.usgs.gov/docs/usgsnps/province/coloplat.html> [January 2006].
- United States Geological Survey(b). *Geologic Provinces of the United States: Interior Plain Province*. Available on-line: <http://wrgis.wr.usgs.gov/docs/usgsnps/province/intplain.html> [January 2006].
- United States Geological Survey(c). *Geologic Provinces of the United States: Rocky Mountains*. Available on-line: <http://wrgis.wr.usgs.gov/docs/usgsnps/province/rockymtn.html> [January 2006].
- Utah Division of Wildlife Resources. 2005. Utah Comprehensive Wildlife Conservation Strategy (CWCS): 2005-2015. Publication Number 05-19. Utah Division of Wildlife Resources, Salt Lake City, Utah. Available on-line at: <http://www.wildlife.utah.gov/cwcs/>. Last accessed: April 2006.
- Van Horne, B. and J.A. Wiens. 1991. Forest Bird Habitat Suitability Models and the Development of General Habitat Models. Fish and Wildlife Research. Washington DC no. 8, 31 pp
- Verbyla, D.L. 1987. Classification trees: A new discrimination tool. *Canadian Journal of Forest Research* 17:1150-1152.
- Walters, R.E., and E. Sorenson, editors. 1983. Utah bird distribution: latilong study. Utah Department of Natural Resources, Division of Wildlife Resources, Salt Lake City. Publication 83-10.
- Wassink, Jan L. 1993. Mammals of the Central Rockies. Mountain Press Publishing Company, Missoula, Montana. 161 pp.
- Weakley, A.S., K.D. Patterson, S. Landaal, M. Gallyoun, and others, compilers. 1996. International classification of ecological communities: Terrestrial vegetation of the Southeastern United States.

-
- Working draft of April 1996. The Nature Conservancy, Southeast Regional Office, Southern Conservation Science Department, Community Ecology Group. Chapel Hill, NC.
- West, N.E. and J.A. Young, 2000. Intermountain Valleys and Lower Mountain Slopes (Chapter 7). *in* M.G. Barbour and W.D. Billings (eds.) *North American Terrestrial Vegetation*, 2nd ed. Cambridge Univ. Press, NY
- Whittaker, R.H. 1960. Vegetation of the Siskiyou mountains, Oregon and California. *Ecological Monographs* 30(3):279-338.
- Whittaker, R.H. 1965. Dominance and diversity in land plant communities. *Science* 147: 250-259.
- Whittaker, R.H. 1977. Species diversity in land communities. *Evolutionary Biology* 10:1-67.
- Wilcox, G., D.M. Theobald, J. Whisman, and N. Peterson. 2006. COMaP: Mapping the status and trends of Colorado's protected areas. COMaP v.5 Technical Report. Natural Resource Ecology Lab, Colorado State University, Fort Collins, Colorado.
- Williams, P.H., D. Gibbons, C. Margules, A. Rebelo, C. Humphries, and R. Pressey. 1996. A comparison of richness hotspots, rarity hotspots, and complementary areas for conserving diversity of British birds. *Conservation Biology* 10:155-174.
- Wilson, D.E., and D.M. Reeder, editors. 1993. *Mammal species of the world: a taxonomic and geographic reference*. Smithsonian Institution Press, Washington, D.C.
- Woodcock, C. and S. Gopal. 1992. *Accuracy assessment of the Stanislaus Forest vegetation map using fuzzy sets*. Proceedings of the 4th Biennial Remote Sensing Applications Conference, Orlando FL.