

REFERENCES

- ADAMS, L.G., SINGER, F.J., & DALE, B.W. 1995. Caribou calf mortality in Denali National Park. *J. Wildl. Mgmt* 59:584-594.
- ALADOS, C.L. 1985. An analysis of vigilance in the Spanish Ibx (*Capra pyrenaica*). *Z. Tierpsychol.* 68:58-64.
- ANDERSON, J.L. 1978. *Aspects of the ecology of the nyala in Zululand*. PhD Thesis, Univ. London.
- ANDERSON, J.L. 1980. A summary of observations on the larger carnivores of the Hluhluwe/Corridor/Umfolozi Game Reserve complex, Zululand. Natal Parks Board unpublished report 7pp.
- ANDERSON, J.L. 1981. The re-establishment and management of lion *Panthera leo* population in Zululand, South Africa. *Biol. Conserv.* 1:107-117
- ATTWELL, C.A.M. 1977. *Reproduction and population ecology in the blue wildebeest in Zululand*. PhD thesis, University of Natal.
- BAILEY, T.N. 1993. *The African leopard*. Columbia Univ. Press, New York.
- BANGS, E.E., & FRITTS, S.H. 1996. Reintroducing the gray wolf to central Idaho and Yellowstone National Park. *Wildl. Soc. Bull.* 24:402-413.
- BEARDER, S.K. 1975. Inter-relationships between hyaenas and their competitors in the Transvaal lowveld. *Nuwe Reeks. Pub. Univ. Pretoria* 97:39-48.
- BEIER, P. 1993. Determining minimum habitat areas and habitat corridors for cougars. *Conser. Biol.* 7:94-108.
- BELDEN, R.C. & HAGEDORN, B.W. 1993. Feasibility of translocating panthers into northern Florida. *J. Wildl. Mgmt.* 57:388-397.
- BERGER, J. & CUNNINGHAM, C. 1988. Size-related effects on search times in North American grassland female ungulates. *Ecology* 69:177-183.
- BERGER, J., DANEKE, D., JOHNSON, J. & BERWICK, S.H. 1983. Pronghorn foraging economy and predator avoidance in a desert ecosystem: Implications for the conservation of large mammalian herbivores. *Biol. Cons.* 25: 193-208.
- BERTRAM, B.C.R. 1973. Lion population regulation. *E. Afr. Wildl. J.* 11:215-225
- BERTRAM, B.C.R. 1978. Social factors influencing reproduction in wild lions. *J. Zool. London.* 177,463-482.
- BERTRAM, B.C.R. 1979. *Studying Predators*. Handbook No. 3. African Wildlife Leadership Foundation, Nairobi. 2nd Edition 44pp

- BERRY, H., BUSH, M., DAVIDSON, B., FORGE, O., FOX, B., GRISHAM, J., HOWE, M., HURLBUT, S., MARKER-KRAUS, L., MARTENSON, J., MUNSON, L., NOWELL, K., SCHUMANN, M., SHILLE, T., STANDER, P., VENZKE, K., WAGENER, T., WILDT, D., ELLIS, S., AND SEAL, U. (eds). 1997. *Population and habitat viability assessment for the Namibian cheetah and lion*. Workshop report. IUCN/SSC Conservation Breeding Specialist Group, Minn.
- BLANCHARD, B.M. & KNIGHT, R.R. 1995. Biological consequences of relocating grizzly bears in the Yellowstone ecosystem. *J. Wildl. Mgmt.* 59:560-565.
- BOTHMA, J. du P., KNIGHT, M.H., le RICHE, E.A.N., & van HENSBERGEN, H.J. 1997. Range size of southern Kalahari leopards. *S. Afr. J. Wildl. Res.* 27:94-99.
- BRANNON, R.D. 1985. Nuisance grizzly bear translocations in the Greater Yellowstone Region. *Can. Field. Nat.* 101:569-575.
- BREITENMOSER, U., & BREITENMOSER-WURSTEN, C. 1990. Status, conservation needs and reintroduction of the lynx in Europe. Strasbourg, Council of Europe, *Nature & Environment Series* 45.
- BRYDEN, B.R. 1976. *The biology of the African lion (Panthera leo Linn. 1758) in the Kruger National Park*. MSc. Thesis, Univ. Pretoria 96pp.
- BURGER, J. & GOCHFELD, M. 1994. Vigilance in African mammals: Difference among mothers, other females and males. *Behav.* 131:154-169.
- BURNEY, D.A. 1980. *The effects of human activities on cheetah Acinonyx jubatus in the Mara region of Kenya*. MSc. thesis, University of Nairobi.
- BURROUGHS, R.E.J. 1993. Care of carnivores in captivity. In *The Capture and Care Manual: Capture, Care, Accommodation and Transportation of Wild African Animals*. (ed A.A. McKenzie), Pp. 304-311. Wildlife Decision Support Services and the South African Veterinary Foundation, Pretoria.
- DE BOER, W.F. & PRINS, H.H.T. 1990. Large herbivores that prey on cheetahs: the effects of predation, disturbance and dilution effects. *Animals, Food*
- CARACO, T. & WOLF, L.L. 1975 Ecological determinants of group sizes of foraging lions. *Am. Nat.* 109:343-352
- CARBYN, L.N., ARMBUSTER, H.J., & MAMO, C. 1995. The Swift fox reintroduction program in Canada from 1983 to 1992. In: *Restoration of Endangered Species; Conceptual Issues, Planning and Implementation*. (eds. M.L. Bowles & C.J. Whelan), pp 243-271. Cambridge University Press, Cambridge.
- CARO, T.M. & COLLINS, D.A. 1987. Male cheetah social organisation and territoriality. *Ethology* 74:52-64

- CARO, T.M. 1994. *Cheetahs of the Serengeti Plains. Group living in an asocial species*. University of Chicago Press, Chicago. 478pp.
- CARO, T.M. 1982. A record of the cheetah scavenging in the Serengeti. *Afr. J Ecol.* 20:213-214.
- CHILDES, S.L. 1988. Can re-introduction save the wild dog? *Zimb. Wildl.* 51: 27-33
- CHIVERS, D.J. 1991. Guidelines for re-introductions: procedures and problems. *Symp. Zool. Soc. Lond.* 62:89-99.
- COBB, S. 1981. The leopard- problems of an overabundant, threatened, terrestrial carnivore. In *Problems in management of locally abundant wild mammals* by P.A. Jewell and S. Holt (eds), pp. 181-192. Academic Press, London.
- COMLY, L.M. & VAUGHAN, M.R. 1995. Survival and reproduction of translocated Virginia black bears. *Int. Conf. Bear Res. Manage.* 9:428-437.
- CREEL, S.R. 1996. Behavioral endocrinology and social organization in dwarf mongooses. In *Carnivore Behavior, Ecology and Evolution*. Volume II. (ed J.L. Gittleman), pp 46-78. Cornell University Press, New York.
- CREEL, S.R. & WASER, P.M. 1991. Failures of reproductive suppression in dwarf mongooses: accident or adaptation? *Behav. Ecol.* 5:339-348.
- CRESSWELL, W.J. & SMITH, G.C. 1992. The effects of temporally autocorrelated data on methods of home-range analysis. In *Wildlife Telemetry*. by I. Priede & S. Swift. (eds). pp272-284. Ellis Harwood, Chichester, UK.
- CROOKS, K.R., SANJAYAN, M.A. & DOAK, D.F. 1998. New insights on cheetah conservation through demographic modelling. *Cons. Biol.* 12(4):889-895.
- DaSILVA, J., MACDONALD, D.W., & EVANS, P.G.H. 1994. Net costs of group living in a solitary forager, the Eurasian badger: genetic evidence. *J. Zool. London.* 218:587-595.
- DE BOER, W.F. & PRINS, H.H.T. 1990. Large herbivores that strive mightily but eat and drink as friends. *Oecologia (Berl.)* 82: 264-274.
- DEHN, M.M. 1990. Vigilance for predators: detection and dilution effects. *Behav. Ecol Sociobiol.* 26:337-342.
- DINERSTEIN, E, WIKRAMANAYAKE, E., ROBINSON, J., KARANTH, U., RABINOWITZ, A., OLSON, D., MATHEW, T., HEDEO, P., & CONNOR, M. 1997. *A Framework for Identifying High Priority Areas and Actions for the Conservation of Tigers in the Wild*. WWF-US & Wildlife Conservation Society. 72pp.

- DUBLIN, H.T. 1995. Vegetation dynamics in the Serengeti-Mara ecosystem: the role of elephants, fire and other factors. In *Serengeti II: Dynamics, Management and Conservation of an Ecosystem*. (eds A.R.E. Sinclair and P. Arcese). pp 49-70. University of Chicago Press, Chicago.
- DURANT, S.M, 1998. Competition refuges and coexistence: an example from Serengeti carnivores. *J.Anim. Ecol.* 67:370-386.
- DURANT, S.M, CARO, T.M., COLLINS, D.A., ALAWI, R.M., & FITZGIBBON, C.D. 1988. Migration patterns of Thomson's gazelles and cheetahs on the Serengeti Plains. *Afr. J. Ecol.* 26:257-268.
- EATON, R.L. 1970. Hunting behavior of the cheetah. *J. Wildl. Mgmt.* 34:56-67.
- EATON, R.L. 1974. *The cheetah*. Van Nostrand Reinhold, New York.
- EATON, R.L. 1979. Interference competition among carnivores: a model for the evolution of social behavior. *Carnivore* 2:9-16.
- EBEDES, H. 1993. The use of long-acting tranquillisers in captive wild animals. In: *The Capture and Care Manual: Capture, Care, Accommodation and Transportation of Wild African Animals*. (ed A.A. McKenzie), Pp. 71-99. Wildlife Decision Support Services and the South African Veterinary Foundation, Pretoria.
- ELGAR, M.A. 1989. Predator vigilance and group size in mammals and birds: A critical review of the empirical evidence. *Biol. Review* 64:13-33.
- ELOFF, F.C. 1964. On the predatory habits of lions and hyaenas. *Koedoe* 7:105-112
- ELTRINGHAM, S.K. 1979. *The ecology and conservation of large African mammals*. Macmillan Press, London.
- EMMONS, L.H. 1988. A field study of ocelots (*Felis pardalis*) in Peru. *Rev. Ecol. (Terre. Vie.)* 43,133-157.
- FAIRALL, N. & BRAACK, H.H. 1976. Growth and development of the impala. *Koedoe*. 19:83-88.
- FITZGIBBON, C.D. 1990a. Mixed species grouping in Thompson's and Grant's gazelles: the antipredator benefits. *Anim. Behav.* 39: 1116-1126.
- FITZGIBBON, C.D. 1990b. Why do hunting cheetahs prefer male gazelles? *Anim. Behav.* 40: 837-845.
- FRITTS, S.H. 1992. Reintroductions and translocations of wolves in North America: an analysis. Wolves for Yellowstone? Report to the United States Congress 4: *Research and Analysis*: 3-5 - 3-31.

- FRITTS, S.H, PAUL, W.J., & MECH, L.D. 1985. Can relocated wolves survive? *Wildl. Soc. Bull.* 13:459-463.
- FRYXELL, J.M., GREEVER, J, & SINCLAIR, A.R.E. 1988. Why are migratory ungulates so abundant? *Am. Nat.* 131:781-98.
- GILPIN, M.E. 1987. Spatial structure and population vulnerability. In *Viable Populations for Conservation* (ed M.E. Soule), pp 125-139. New York, Cambridge University Press.
- GIRALDEAU, L. & ELLIS, D. 1988. Do lions hunt in group sizes that maximise hunter's daily food returns? *Anim. Behav.* 36:611-613
- GITTLEMAN, J.L. & HARVEY, P.H. 1982. Carnivore home-range size, metabolic needs and ecology. *Behav.Ecol. Sociobiol.* 10:57-63.
- GLUCK, E. 1987. An experimental study of feeding, vigilance and predator avoidance in a single bird. *Oecologia* 71: 268-272.
- GOODMAN, P.S. 1981. A preliminary summary of the climatic features of Mkuzi Game Reserve. Unpubl. N.P.B. report, Pietermaritzburg.
- GOODMAN, P.S. 1990. *Soil, vegetation and large herbivore relations in Mkuzi Game Reserve, Natal*. Unpubl. PhD Thesis, University of Witswatersrand, 324pp.
- GOODMAN, P.S. & TOMKINSON, A.J. 1987. The past distribution of giraffe in Zululand and its implications for reserve management. *S. Afr. J. Wild. Res.* 17: 28-32.
- GRAHAM, A.D. & PARKER, I.S.C. 1965. *East African Wildlife Society cheetah survey*. Report by Wildlife Services. East African Wildlife Society, Nairobi. 20pp.
- GREEN, J.S., GOLIGHTY, R.T., LINDSEY, S.L., & LEAMASTER, B.R. 1985. Use of radio transmitter implants in wild canids. *Gt. Basin Nat.* 45:567-570.
- GRIFFITH, B., SCOTT, J.M., CARPENTER, J.W. & REED, C. 1989. Translocation as a species conservation tool: status and strategy. *Science* 245:477-490.
- GUGGISBERG, C.A.W. 1961. *Simba*. Howard Tinnins, Cape Town.
- GUYNN, D.C., DAVIS, J.R., & VON RECUM, A.F. 1987. Pathological potential of intraperitoneal transmitter implants in beavers. *J. Wildl. Manage* 51: 605-606.
- GWYNNE, M.D. & BELL, R.H.V. 1968. Selection of vegetation components by grazing ungulates in the Serengeti National Park. *Nature*. 220:390-93.
- HALL-MARTIN, A. 1976. *Studies on the biology and productivity of the giraffe*. DSc Thesis, Univ. Pretoria.

- HAMILTON, P.H. 1981. *The leopard and the cheetah in Kenya*. Unpubl. report to the U.S. Fish and Wildlife Service.
- HANBY, J.P., BYGOTT, J.D & PACKER, C. 1995. Ecology, demography and behavior of lions in two contrasting habitats: Ngorongoro Crater and the Serengeti Plains. *Serengeti II: Dynamics, Management and Conservation of an Ecosystem*. (eds A.R.E. Sinclair and P. Arcese). pp 315-331. University of Chicago Press, Chicago.
- HARRIS, S., CRESSWELL, W.J., FORDE, P.G., TREWHELLA, W.J., WOOLLARD, T. & WRAY, S. 1990. Home-range analysis using radio-tracking data - a review of problems and techniques particularly as applied to the study of mammals. *Mamm. Rev.* 20:97-123.
- HEMKER, T.P., LINDZEY, F.G. ACKERMAN, B.B. & BUTTON, A.J. 1986. Survival of cougar cubs in a non-hunted population. In: S.D. Miller and D.D. Everett (eds) *Cats Of the World*. National Wildlife Federation, Washington DC, pp65-76.
- HERBST, L. 1991. Pathological and reproductive effects of intraperitoneal telemetry devices on female armadillos. *J. Wildl. Mgmt.* 55(4):628-631.
- HIRST, S.M. 1969a. Road-strip census techniques for wild ungulates in African Woodland. *J. Wildl. Mgmt.* 33:40-48.
- HIRST, S.M. 1969b. Predation as a regulating factor of wild ungulate populations in a Transvaal lowveld nature reserve. *Zool. Afr.* 4:199-230.
- HIRST, S.M. 1975. Ungulate-habitat relationships in a South African woodland/savanna ecosystem. *Wildlife Monographs* 44:1-60.
- HOFMEYR, M & VAN DYK, G. 1998. Cheetah introductions to two North West parks: case studies from Pilanesberg National Park and Madikwe Game Reserve. pp 60-71 in B.L. Penzhorn (Ed.): *Proceedings of a Symposium on Cheetahs as Game Ranch Animals*, S.A. Veterinary Assoc., Onderstepoort.
- HOOGE, P. N. and W.M. EICHENLAUB. 1998. *Animal movement extension to Arcview. ver. 1.1*. Alaska Biological Science Center, U.S. Geological Survey, Anchorage, AK, USA. Available: <http://www.absc.usgs.gov/glba/gistools.htm>.
- HORNOCKER, M.G. 1970. An analysis of mountain lion predation upon mule deer and elk in the Idaho Primitive Area. *Wildlife Monographs* 21,1-39.
- HUNTER, L.T.B. 1996a. The reintroduction of cheetahs into Phinda Resource Reserve, Northern Natal South Africa. In: Marker-Kraus, L. (ed) *1994-95 International Cheetah Studbook*. National Zoological Park, Washington.

- HUNTER, L.T.B. 1996b. Secondary re-introductions of large cats in South Africa. *Cat News* 25:14.
- HUNTER, L.T.B. 1998a. Early post-release movements and behaviour of reintroduced cheetahs and lions, and technical considerations in large carnivore restoration. pp 72-82 in B.L. Penzhorn (Ed.): *Proceedings of a Symposium on Cheetahs as Game Ranch Animals*, S.A. Veterinary Assoc., Onderstepoort.
- HUNTER, L.T.B. 1998b. *The socio-ecology of re-introduced lions in small reserves: comparisons with established populations and the implications for management in enclosed conservation areas*. Unpubl. project proposal, Dept of Biology, Univ. Natal.
- HUNTER, L.T.B. & SKINNER, J.D. 1995. A case of cannibalism in male cheetahs. *J. Afr. Ecol.* 33:169-171.
- HUNTER, L.T.B. & SKINNER, J.D. 1998. Vigilance in African ungulates: The role of predation pressure. *Behav.* 135:195-211.
- HUNTER, L.T.B. & SKINNER, J.D. *In press*. Effect of habitat type on performance of intraperitoneal and external radiotransmitters in lions. *J. Wildl. Res.*
- JAKSIC, F.M. & DELIBES, M. 1987. A comparative analysis of food-niche relationships and trophic guild structure in two assemblages of vertebrate predators differing in species richness: causes, correlations and consequences. *Oecologia* 71:461-472.
- JENNRICH, R.I. & TURNER, F.B. 1969. Measurements of non-circular home-range. *J. Theor. Biol.* 22:227-237.
- KELLY, M.J., LAURENSEN, M.K., FITZGIBBON, C.D., COLLINS, D.A., DURANT, S.M., FRAME, G.W., BERTRAM, C.R. & CARO, T.M. 1998. Demography of the Serengeti cheetah population: the first 25 years. *J. Zool. Lond.* 244:473-488.
- KENWARD, R. 1987. *Wildlife Radio Tagging: Equipment, field techniques and data analysis*. Academic Press, London. 222pp.
- KLEIMAN, D.G. 1989. Reintroduction of captive mammals for conservation. *BioScience* 39:152-153.
- KOCH, T, WHITELOW, A., & ASHER, V. 1995. Idaho wolf update. *Wolf! magazine* 18-21.
- KOEHLER, D.K., REYNOLDS, T.D. & ANDERSON, S.H. 1987. Radio-transmitter implants in 4 species of small mammals. *J. Wildl. Mgmt.* 51: 105-108.

- KORSCHGEN, C.E., MAXSON, S.J. & KUECHLE, V.B. 1984. Evaluation of implanted radio transmitters in ducks. *J. Wildl. Mgmt.* 48:982-987.
- KORSCHGEN, C.E., KENOW, K.P., GENDRON-FITZPATRICK, A., GREEN, W.L. & DEIN, J. 1996. Implanting intra-abdominal radiotransmitters with external whip antennas in ducks. *J. Wildl. Manage.* 60:132-137.
- KNIGHT, M.H., KNIGHT-ELOFF, A.K. & BORNMAN, J.J. 1988. The importance of borehole water and lick sips to Kalahari ungulates. *J. Arid Env.* 15:269-281.
- KREBS, J.R. & DAVIES, N.B. 1992. *Behavioural Ecology, an Evolutionary Approach*. 3rd Edition. Blackwell Scientific Publications, Oxford.
- KRUGER, J.E. 1988. *Interrelationships between the larger carnivores of the Klasserie Private Nature Reserve with special reference to the leopard Panthera pardus (Linn. 1758) and the cheetah Acinonyx jubatus (Schreber 1775)*. Unpubl. M.Sc. Thesis. Univ. of Pretoria, 227p.
- KRUUK, H. 1972. Group territories of carnivores: empires and enclaves. In *Behavioural Ecology. Ecological Consequences of Adaptive Behaviour*. (eds R.M. Sibly and R.H. Smith). pp. 521-536. Blackwell Scientific Publications. Oxford.
- KRUUK, H. 1972. *The Spotted Hyaena. A Study of Predation and Social Behavior*. University of Chicago Press, Chicago.
- LACY, R.C. 1987. Loss of genetic diversity from managed populations: Interacting effects of drift, mutation, immigration, selection and population subdivision. *Cons. Biol.* 1:143-58.
- LAGORY, K.E. 1986. Habitat, group size and the behaviour of white-tailed deer. *Behav.* 98: 168-179.
- LAURENSEN, M.K. 1994. High juvenile mortality in cheetahs and its consequences for maternal care. *J.Zool. Lond.* 234:387-408.
- LAURENSEN, M.K. 1995a. Cub growth and maternal care in cheetahs. *Behav. Ecol* 6:405-409
- LAURENSEN, M.K. 1995b. Implications of high offspring mortality for cheetah population dynamics. In *Serengeti II: Dynamics, Management and Conservation of an Ecosystem*. (eds A.R.E. Sinclair and P. Arcese). pp 385-399. University of Chicago Press, Chicago.
- LAURENSEN, M.K., CARO, T.M., & BORNER, M. 1992. Female cheetah reproduction *Nat. Geo. Res. Expl.* 8:64-75.

- LAZARUS, J. 1979. The early warning function of flocking in birds: an experimental study with captive quelea. *Anim. Behav.* 27: 855-865.
- LEUTHOLD, W. 1977 *African ungulates, a comparative review of their ethology and behavioural ecology*. Springer Verlag, Berlin.
- LIMA, S.L. 1995. Back to the basics of anti-predatory vigilance: the group size effect. *Anim. Behav.* 49:11-20.
- LIMA, S.L & ZOLLNER, P.A. 1996. Anti-predatory vigilance and the limit to collective detection: visual and spatial separation between foragers. *Behav. Ecol. Sociobiol.* 38:355-363.
- LINNELL, J.D.C., ODDEN, J., SMITH, M.E., AANES, R., SWENSON, J. 1997. Translocation of carnivores as a method for problem animal management: a review. *Biodiv. Conserv.* 6:1245-1257.
- LINNELL, J.D.C., AANES, R. & ANDERSEN, R. 1995. Who killed bambi? The role of predation in the neonatal mortality of temperate ungulates. *Wildl. Biol.* 1:209-223.
- LOW, A.B. & REBELO, A.G. 1996. *Vegetation of South Africa, Lesotho and Swaziland*. Dept. Environmental Affairs and Tourism, Pretoria. 84pp.
- MACDONALD, D.W. 1983. The ecology of carnivore social behaviour. *Nature* 301:379-384.
- MACDONALD, D.W & MOEHLMAN, P.D. 1982. Cooperation, altruism and restraint in the reproduction of carnivores. *Persp. Ethol.* 5:433-467.
- MACDONALD, D.W., APPS, P.J., CARR, G.M. & KERBY, G. 1986. Social dynamics, nursing coalitions and infanticide among farm cats *Felis catus*. *Adv. Ethol.* 28,1-68. Verlag Paul Parey, Berlin.
- MADDOCK, L. 1979. The 'migration' and grazing succession. In Sinclair A.R.E. & Norton-Griffiths, M. (Eds). *Serengeti. Dynamics of an ecosystem*. pp104-129. University of Chicago Press, Chicago.
- MADDOCK, A., ANDERSON, A., CARLISLE, F., GALLI, N., JAMES, A., VERSTER, A., & WHITFIELD, W. 1996. Changes in lion numbers in Hluhluwe-Umfolozi Park. *Lammergeyer* 44:6-18.
- MAKACHA, S. & SCHALLER, G.B. 1969. Observations on lions in Lake Manyara National Park, Tanzania. *E. Afr. Wildl. J.* 7:99-103.
- MARKER-KRAUS, L., D.KRAUS, D., BARNETT, D., & HURLBUT, S. 1996. *Cheetah Survival on Namibian Farmlands*. Cheetah Conservation Fund. 85pp.

- MARKER-KRAUS, L. 1996. Cheetah relocation, *Cheetah Conservation Fund Newsletter* 6:5
- MASON, D.R. 1985. Post-natal growth and physical condition of warthog in Zululand. *S.Afr. J. Wildl. Res.* 15:89-97.
- MAUD, R.R. 1980. The climate and geology of Maputaland. In: *The Ecology of Maputaland*. (eds M.N. Bruton and K.H. Cooper), pp 1-7. Rhodes University and the Wildlife Society of Southern Africa.
- MCDUGAL, C. 1988. Leopard and tiger interactions at Royal Chitwan National Park, Nepal. *J. Bombay Natl. Hist. Soc.* 85: 609-11.
- MCKENZIE, A.A., MELTZER, D.G.A., LE ROUX, P.G., & GOSS, R.A. 1990. Use of implantable radio transmitters in large African carnivores. *S.Afr. J. Wildl. Res.* 20(1): 33-35.
- MCVITTIE, R. 1979. Changes in the social behaviour of the South West African cheetah. *Madoqua*, 11,171-184.
- MELTZER, D.G.A. 1998. Reproduction in male cheetahs. In: *6th Biennial International Symposium of Wildlife Utilization*. Faculty of Vet. Sci, Onderstepoort, Pretoria, pp 35-54.
- MILLER, S.D. & BALLARD, W.B. 1982. Homing of transplanted Alaskan brown bears. *J. Wildl. Mgmt.* 46:869-876.
- MILLS, M.G.L. 1990. *Kalahari hyaenas*. London, Unwin Hyman.
- MILLS, M.G.L. 1991. Conservation management of large carnivores in Africa. *Koedoe* 34:81-90.
- MILLS, M.G.L. 1992. A comparison of methods used to study food habits of large African carnivores. In *Wildlife 2001: populations* by D.R. McCullough and R.H. Barrett. (eds). pp1112-1124, Elsevier Applied Science, London.
- MILLS, M.G.L. 1996. Methodological advances in capture, census, and food habits studies of large African carnivores. In *Carnivore Behavior, Ecology and Evolution*. Volume II. (ed J.L. Gittleman), pp 223-242. Cornell University Press, New York.
- MILLS, M.G.L. & RETIEF, P.F. 1984. The effect of windmill closure on the movement patterns of ungulates along the Aoub riverbed. *Koedoe suppl.* 107-118.
- MILLS, M.G.L. & SHENK, T.M. 1992. Predator-prey relationships: the impact of lion predation on wildebeest and zebra populations. *J. Anim. Ecol.* 61:693-702.
- MITCHELL, B, SHENTON, J. UYS, J. 1965. Predation on large mammals in the Kafue National Park, Zambia. *Zool. Afr.* 1:297-318.

- MIZUTANI, F. & JEWELL, P.A. 1998. Home-range and movements of leopards on a livestock ranch in Kenya. *J.Zool. Lond.* 244:269-286.
- MOLL, E.J. 1980. Terrestrial plant ecology. In *The Ecology of Maputaland*. (eds M.N. Bruton and K.H. Cooper), pp52-68. Rhodes University and the Wildlife Society of Southern Africa.
- MOORE, D.E. & SMITH, R. 1990. The red wolf as a model for carnivore reintroductions. *Symp. Zool. Soc. Lond.* 65:263-278.
- NOWELL, K & JACKSON, P. 1996. *Wild Cats: Status survey and conservation action plan*. IUCN/SSC, Gland, Switzerland.
- NUDDS, T.D. 1978. Convergence of group size strategies by mammalian social carnivores. *Am. Nat.* 112:957-960.
- ORFORD, H.J.L., PERRIN, M.R., AND BERRY, H.H., 1988. Contraception, reproduction and demography of free-ranging Etosha lions (*Panthera leo*). *J. Zool. Lond.* 216:717-733.
- PACKER, C. & PUSEY A.E.1983. Adaptations of female lions to infanticide by incoming males. *Am. Nat.* 121:717-728.
- PACKER, C. & PUSEY, A.E. 1984. Infanticide in carnivores. In: G. Hausfater and S.B. Hrdy (eds), *Infanticide: Comparative and evolutionary perspectives*. Aldine, New York, pp31-42.
- PACKER, C. & RUTTAN, L. 1988. The evolution of cooperative hunting. *Am Nat.* 132:159-198.
- PACKER, C.P., HERBST L, PUSEY, A.E., BYGOTT, D.J., HANBY, J.P. CAIRNS, S.J. & BORGERHOF MULDER, M. 1988. Reproductive success of lions. In *Reproductive Success: Studies of Individual Variation in Contrasting Breeding Systems*. (ed T.H. Clutton-Brock). pp 363-383. University of Chicago Press, Chicago.
- PACKER, C., SCHELL, D. & PUSEY, A.E. 1990. Why lions form groups :food is not enough. *Am. Nat.* 136:1-19.
- PANWAR, H.S. & RODGERS, W.A., 1986. The reintroduction of large cats into wildlife protected areas. *Indian Forester.* 112:939-944.

- PEEK, J.M., BROWN, D.E., KELLERT, S.R., MECH, L.D., SHAW, J.H., AND VAN BALLEMBERGHE, V. 1991. Restoration of wolves in North America. *Wildl. Soc. Tech Rev.* 91-1:1-21.
- PETTIFER, H.L. 1981a. The experimental release of captive-bred cheetahs (*Acinonyx jubatus*) into the natural environment. In *Worldwide Furbearer Conference Proceedings*. (eds J.A. Chapman & D. Pursey). pp.1001-1024. R.R. Donnelly & Sons, Co. Falls Church, VA.
- PETTIFER, H.L. 1981b. Aspects of the ecology of cheetahs (*Acinonyx jubatus*) on the Suikerbosrand Nature Reserve. In *Worldwide Furbearer Conference Proceedings*. (eds J.A. Chapman & D. Pursey). pp.1121-1142. R.R. Donnelly & Sons, Co. Falls Church, VA.
- PHILLIPS, J.A. 1993 Bone consumption by cheetahs at undisturbed kills: evidence for a lack of focal-palatine erosion. *J. Mamm.* 74:487-492
- PIENAAR, U. de V. 1969. Predator-prey relationships amongst the larger mammals of the Kruger National Park. *Koedoe* 12:108-187.
- POWELL, G.V.N. 1974. Experimental analysis of the social value of flocking by starlings in relation to predation and foraging. *Anim. Behav.* 22: 501-505.
- POWELL, R.A., ZIMMERMAN, J.W., & SEAMAN, D.E. 1998. *Ecology and Behaviour of North American Black Bears: Home Ranges, Habitat and Social Organisation*. Chapman & Hall, London, 203pp.
- PRINS, H.H.T. & IASON, G. 1989. Dangerous lions and nonchalant buffalo. *Behav.* 108: 262-296.
- PRINS, H.H.T. 1996. *Ecology and Behaviour of the African buffalo: Social inequality and decision making*. Chapman & Hall, London.
- PURCHASE, G.K. 1998. The Matusadona cheetah project: lessons from a wild-to-wild translocation. pp 83-89 in B.L. Penzhorn (Ed.): *Proceedings of a Symposium on Cheetahs as Game Ranch Animals*, S.A. Veterinary Assoc., Onderstepoort.
- PUSEY A.E. & PACKER, C. 1987. The evolution of sex-based dispersal in lions. *Behav.* 101: 275-310.
- PUSEY A.E. & PACKER, C. 1994. Infanticide in lions: consequences and counter-strategies. In: S. Parmigiani and F. von Saal (eds), *Infanticide and Parental Care*, Harwood Academic Publishers, London, pp 277-299.

- QUINN, N.W.S. & PARKER, G. 1987. Lynx. In: M. Novak, J.A. Baker, M.E. Obbard and B. Malloch (eds) *Wild Furbearer Management and Conservation in North America*. Ministry of Natural Resources, Ontario: pp 682-695.
- RABINOWITZ, A.R. & WALKER, S.R. 1991. The carnivore community in a dry tropical forest mosaic in Huai Kha Khaeng Wildlife Sanctuary, Thailand. *J. Trop. Ecol.* 7:37-47.
- RALLS, K., SINIFF, D.B., WILLIAMS, T.D., KUECHLE, V.B. 1989. An intraperitoneal radio transmitter for sea otters. *Mar. Mamm. Sci.* 5(4):376-381.
- RAUTENBACH, I.L., SKINNER, J.D. & NEL, J.A.J. 1980. The past and present status of mammals of Maputaland. In: *The Ecology of Maputaland*. (eds Bruton, M.N. and K.H. Cooper), pp 322-345. Rhodes University and the Wildlife Society of Southern Africa.
- RAUTENBACH, I.L. & NEL, J.A.J. 1978. Coexistence in Transvaal Carnivora. *Bull. Carn. Mus. Nat. Hist.* 6:138-145.
- READING, R.P & CLARK, T.W. 1996. Carnivore reintroductions: an interdisciplinary examination. In *Carnivore Behavior, Ecology and Evolution*. Volume II. (ed J.L. Gittleman), pp 296-336. Cornell University Press, New York
- REID, D.G., MELQUIST, W.E., WOOLINGTON, J.D., & NOLL, J.M. 1986. Reproductive effects of intraperitoneal transmitter implants in river otters. *J. Wildl. Mgmt.* 50(1): 92-94.
- REPASKY, R.P. 1996. Using vigilance behaviour to test whether predation promotes habitat partitioning. *Ecology* 77:1880-1887.
- ROELKE, M.E., MARTENSON, J.S. & O'BRIEN, S.J. 1993. The consequences of demographic reduction and genetic depletion in the endangered Florida panther. *Curr. Biol.* 3:340-350.
- ROGERS, L.L. 1986. Effects of translocation distance on frequency of return by adult black bears. *Wildl. Soc. Bull.* 14:76-80.
- ROSENWEIG, M.L. 1966. Community structure in sympatric Carnivora. *J. Mamm.* 47:602-612.
- ROWE-ROWE, D.T. 1992. *The Carnivores of Natal*. Natal Parks Board, Pietermaritzburg, 31pp.
- RUDNAI, J. 1973. Reproductive biology of lions (*P.l.massaica*) in Nairobi National Park. *E. Afr. Wild. J.* 11:241-253.

- RUDNAI, J. 1974. The pattern of lion predation in Nairobi Park. *E. Afr. Wild. J.* 12:213-225.
- RUDNAI, J.A. 1973. *The Social life of the lion. A study of the behaviour of wild lions (P.l. massaica [Newmann]) in the Nairobi National Park, Kenya.* Med. & Tech. Pub. Co. Ltd., Great Britain.
- RUGGEIRO, R.G. 1991. Prey selection of the lion in the Manovo-Gounda-St Floris National Park, Central African Republic. *Mammalia* 55:23-33.
- RUTH, T.K., LOGAN, K.A., SWEANOR, L.L., SMITH, J.F. & TEMPLE, L.J. 1993. Evaluating mountain lion translocation. *Final report, Hornocker Wildlife Research Institute*, pp46.
- SANDELL, M. 1989. The mating tactics and spacing patterns of solitary carnivores. In *Carnivore Behavior, Ecology and Evolution*. Volume I. (ed J.L. Gittleman), pp 164-182. Cornell University Press, New York.
- SANDWITH, T. & WHATELEY, A. 1987. Results of the lion monitoring programme in the Hluhluwe & Umfolozi Game Reserves for the period Nov. 1984- Dec. 1986. NPB unpubl. report. 24p.
- SARGEANT, A.B. 1980. Approaches, field considerations and problems associated with radio tracking carnivores. In: Alamaner, C.J. & D.W. Macdonald (Eds). *A Handbook in Biotelemetry and Radio Tracking*. Pp 57-64. Pergamon Press, Oxford.
- SCHALLER, G.B. 1967. *The Deer and the Tiger*. University of Chicago Press, Chicago.
- SCHEEL, D. 1993. Watching for lions in the grass: the usefulness of scanning and its effects during hunts. *Anim. Behav* 46: 695-704.
- SCHEEL, D. & PACKER, C. 1991. Group hunting behaviour of lions: a search for cooperation. *Anim. Behav.* 41:697-709.
- SCHEEL, D. & PACKER, C. 1995. Variation in predation by lions: tracking a movable feast. In *Serengeti II: Dynamics, Management and Conservation of an Ecosystem*. (eds A.R.E. Sinclair and P. Arcese). pp 297-299. University of Chicago Press, Chicago.
- SCHMIDT, J.L. 1984. Common duiker measurements in Natal and Zambia- an example of Bergmann's and Allen's Rules. *Lammergeyer* 32:8-10.
- SCHULZE, B R. 1965. *Climate of South Africa Part 8. General Survey*. South African Weather Bureau. Government Printer, Pretoria.

- SEAMAN, D.E. & POWELL, R.A. 1996. An evaluation of the accuracy of kernel density estimators for home-range analysis. *Ecology*. 77:2075-2085.
- SEIP, D.R. 1992. Factors limiting woodland caribou populations and their inter-relationships with wolves and moose in southeastern British Columbia. *Can. J. Zool.* 70:1494-1503.
- SILVA, M. & DOWLING, J.A. 1995. *CRC Handbook of Mammalian Body Masses*. CRC Press, New York, 359pp.
- SINCLAIR, A.R.E. 1979. Dynamics of the Serengeti ecosystem: process and pattern. pp1-30 in Sinclair A.R.E. & Norton-Griffiths, M. (Eds). *Serengeti. Dynamics of an ecosystem*. University of Chicago Press, Chicago.
- SINCLAIR, A.R.E. 1995. Population limitation of resident herbivores. In *Serengeti II: Dynamics, Management and Conservation of an Ecosystem*. (eds A.R.E. Sinclair and P. Arcese). pp 194-219. University of Chicago Press, Chicago.
- SKINNER, J.D. & SMITHERS, R.H.N. 1990. *The mammals of the Southern African Subregion*. 2nd Edition. Univ. of Pretoria, Pretoria.
- SKOGLAND, T. 1991. What are the effects of predators on large ungulate populations? *OIKOS* 61:401-411.
- SMITH, J.L.D. & MCDUGAL, C.W. 1990. The contribution of variance in lifetime reproduction to effective population size in tigers. *Cons. Biol.* 5:484-490.
- SMITH, K.G. & CLARK, J.D. 1994. Black bears in Arkansas: characteristics of a successful translocation. *J. Mamm.* 75:309-320.
- SMUTS, G.L. 1974. *Growth, reproduction and population characteristics of Burchell's zebra in the Kruger National Park*. Dsc thesis, Univ. Pretoria.
- SMUTS, G.L. 1976. Population characteristics and recent history of lions in two parts of the Kruger National Park. *Koedoe* 19:153-164.
- SMUTS, G.L. 1978. Reproduction and social organisation of lions from the Kruger National Park. *Carnivore* 1:17-28
- SOULÉ, M.E. 1980. Thresholds for survival: maintaining fitness and evolutionary potential. In: *Conservation Biology: An Evolutionary-Ecological Perspective*. (eds M.E. Soulé and B.A. Wilcox), pp151-169. Sinauer, Massachusetts.
- STANDER, P.E. 1990. A suggested management strategy for stock-raiding lions in Namibia. *S. Afr. J. Wild. Res.* 20:37-43.
- STANDER, P.E. 1991. Demography of lions in Etosha National Park. *Madoqua* 18:1-9.
- STANDER, P.E. 1992a. Cooperative hunting in lions: the role of the individual. *Behav. Ecol. Sociobiol.* 29:445-454.

- STANDER, P.E. 1992b. Foraging dynamics of lions in a semi-arid environment. *Can. J. Zool.* 70:8-21.
- STANLEY-PRICE, M.R. 1989. *Animal reintroductions: the Arabian oryx in Oman*. Cambridge University Press, Cambridge.
- STEELE, N.A. 1970. A preliminary report on the lions in the Umfolozi and Hluhluwe Game Reserves. *Lammergeyer* 11:68-79.
- SUNQUIST, M.E. & SUNQUIST, F. 1989. Ecological constraints on predation by large felids. pp283-301 in Gittleman, J.L. (Ed), *Carnivore behavior, ecology and evolution*. Cornell Univ. Press, New York.
- SUNQUIST, M.E., SUNQUIST, F. & DANEKE, D.E. 1989. Ecological separation in a Venezuelan llanos carnivore community. pp.197-232 in Redford, K.H. & Eisenberg J.F. (Eds). *Advances in Neotropical mammalogy*. Sandhill Crane Press, Gainesville, FL. 614pp.
- SWIHART, R.K. & SLADE, N.A. 1985. Testing for independence of observations in animal movements. *Ecol.* 66:1176-1184.
- UNDERWOOD, R. 1982a. Vigilance behaviour in grazing African Antelopes. *Behav.* 79:81-107
- UNDERWOOD, R. 1982b. On surveying ungulate groups. *Afr.J. Ecol.* 20:105-111.
- VAN AARDE, R.J. 1987a. Reproduction in the Cape porcupine: an ecological perspective. *S.Afr. J. Sci.* 83:605-607.
- VAN AARDE, R.J. 1987b. Demography of a Cape porcupine population. *J. Zool. London.* 213:205-212.
- VAN AARDE, R.J. & SKINNER, J.D. 1986. Pattern of space use by relocated servals *Felis serval*. *Afr. J. Ecol.* 24:94-101.
- VAN DER MEULEN, J.H. 1977. Notes on the capture and translocation of stock-raiding lions in north eastern and north western Rhodesia. *S. Afr. J. Wildl. Res.* 7:15-17.
- VAN DYK, G. 1997. Reintroduction techniques for lion (*Panthera leo*). In: *Proceedings of a Symposium on Lions and Leopards as Game Ranch Animals*. (ed. J. van Heerden), pp 82-91. Wildlife Group of the SA Veterinary Association, Onderstepoort.
- VAN ORDSOL, K.G. 1982. Ranges and food habits of lions in Ruwenzori National Park, Uganda. *Symp. Zol. Soc. Lond.* 49:325-340.

- VAN ORDSOL, K.G. 1984. Foraging behaviour and hunting success of lions in Queen Elizabeth National Park, Uganda. *Afr. J. Ecol.* 22:79-99.
- VAN ORDSOL, K.G, HANBY, J.P. & BYGOTT, J.D. 1985. Ecological correlates of lion social organisation. *J.Zool. Lond.* 206:97-112.
- VAN VUREN, D. 1989. Effects of intraperitoneal transmitter implants on yellow-bellied marmots. *J. Wildl. Mgmt.* 53(2):320-323.
- VENTER, J. AND WHATELEY, A. 1985. Results of the lion monitoring programme in the Hluhluwe-Umfolozi Game Reserves for the period November 1983-October 1984. Unpublished report, Natal Parks Board, 24pp.
- VILJOEN, P.C. 1993. The effects of change in prey availability in lion predation in a large natural ecosystem in northern Botswana. *Symp. Proc. Zool. Soc.* 65:
- VINCENT, J. 1972. *Reproduction in the impala with particular reference to the Mkuzi Game Reserve, Zululand.* M.Sc. thesis, University of Pretoria.
- WALTHER, F. 1969. Flight behaviour and avoidance of predators in Thompson's gazelle. *Behav.* 34:184-221.
- WELLS, M.P. 1996. The social role of protected areas in the new South Africa. *Envir. Conserv.* 23(4): 322-331.
- WEMMER, C. & SUNQUIST, M. 1988. Felid reintroductions: economic and energetic considerations. In *Proceedings of the 5th International Snow Leopard Symposium.* (ed H. Freeman), pp193-205. ISLT and Wildlife Institute India.
- WHATELEY, A. & BROOKS, P.M. 1985 The carnivores of the Hluhluwe and Umfolozi Game Reserves, 1973-1982. *Lammergeyer* 35:1-27.
- WILSON, V.J. 1970. Data from the culling of kudu in the Kyle National Parl. *Arnoldia Rhod.* 4:1-26.
- WORTON, B.J. 1987. A review of models of home-range for animal movement. *Ecol. Model.* 38:277-298.
- WORTON, B.J. 1989. Kernel models for estimating the utilization distribution in home range studies. *Ecology.* 70:164-168.
- WORTON, B.J. 1995. Using Monte Carlo simulation to evaluate kernel-based home-range estimators, *J. Wildl. Mgmt.* 59:794-800.
- YALDEN, D.W. 1993. The problems of reintroducing carnivores. *Symp. Zool. Soc. Lond.* 65:289-304.

ZANK, C.M. & J.T.DuTOIT. 1996. Translocation as a management option for cheetah *Acinonyx jubatus* conservation: A Zimbabwean case-study. In: *Proceedings of the 1996 ZSSA Symposium*, p 120. Zoological Society of Southern Africa. Abstract only.

ZAR, J.H. 1984. *Biostatistical Analysis*. Prentice-Hall, New Jersey, 718pp.

Order Carnivora	
<i>Canis</i> suborder*	<i>Felis concolor</i>
<i>Canis</i> suborder*	<i>Cenoprotherium aethiops</i>
<i>Canis</i> suborder*	<i>Oulema crassicaudata</i>
Order Lagomorpha	
<i>Lepus</i> suborder*	<i>Lepus capensis</i>
Order Rodentia	
<i>Thryonomys</i> suborder*	<i>Thryonomys swinhonis</i>
<i>Lepus</i> suborder*	<i>Hystrix africaeastensis</i>
<i>Thryonomys</i> suborder*	<i>Parotaxillus capensis</i>
Order Testudines	
<i>Testudo</i> suborder*	<i>Geochelone</i> spp.
Order Chiroptera	
<i>Myotis</i> suborder	<i>Lycodon pinnatus</i>
<i>Myotis</i> suborder	<i>Carollia melanotis</i>
<i>Myotis</i> suborder	<i>Carollia lescuri</i>
<i>Myotis</i> suborder	<i>Carollia adusta</i>
<i>Myotis</i> suborder	<i>Carollia nigra</i>
<i>Myotis</i> suborder	<i>Myotis velox</i>
<i>Myotis</i> suborder	<i>Urolophus africanus</i>
<i>Myotis</i> suborder	<i>Urolophus arctus</i>
<i>Myotis</i> suborder	<i>Aonyx capensis</i>
<i>Myotis</i> suborder	<i>Musiele nigripes</i>
<i>Myotis</i> suborder	<i>Mellivora capensis</i>
<i>Myotis</i> suborder	<i>Scalops aquaticus</i>
<i>Myotis</i> suborder	<i>Ichthyophaga uruguayensis</i>
<i>Myotis</i> suborder	<i>Genivora nana</i>
<i>Myotis</i> suborder	<i>Mungos mungos</i>
<i>Myotis</i> suborder	<i>Halopeltis parvula</i>
<i>Myotis</i> suborder	<i>Galeoscolecus longicauda</i>
<i>Myotis</i> suborder	<i>Aspilota paludicola</i>
<i>Myotis</i> suborder	<i>Ichneumonidae</i>
<i>Myotis</i> suborder	<i>Acrida</i> spp.
<i>Myotis</i> suborder	<i>Felis concolor</i>
<i>Myotis</i> suborder	<i>Felis concolor</i>
<i>Myotis</i> suborder	<i>Felis concolor</i>
<i>Myotis</i> suborder	<i>Lynx lynx</i>
<i>Myotis</i> suborder	<i>Panthera pardus</i>
<i>Myotis</i> suborder	<i>Panthera leo</i>
<i>Myotis</i> suborder	<i>Hyena brunnea</i>
<i>Myotis</i> suborder	<i>Crocuta crocuta</i>