

## LITERATURE

ACOCKS, J.P.H. 1988. Veld types of South Africa. 3rd edn. *Memoirs of the Botanical Survey of South Africa*. 57: 1 - 146

ARMSTRONG, A.J. & VAN HENBERGEN, H.J.. 1996. Small mammals in afforestable montane grasslands of the northern Eastern Cape Province, South Africa. *South African Journal of Wildlife Research* 26 (1): 11-18

ARNOLD, T.H. & DE WET, B.C. 1993. Plants of Southern Africa: Names and distribution. *Memoirs of the Botanical Survey of South Africa* 62: 1 - 825

ATWELL, C.A.M & BHIKA, M. 1985. Feeding ecology of impala on Starvation Island, Lake Kariba. *South African Journal of Wildlife Research* 15 (2): 41 - 48

AUCAMP, A.J., DANCKWERTS, J.E. & TANTON, N.M. 1992. Range monitoring in South Africa: a broad perspective. *Journal of the Grassland Society of South Africa* 9(1): 8-10

BARNES, D.L., RETHMAN, N.F.G., BEUKES, B.H. & KOTZE, G.D. 1984. Veld composition in relation to grazing capacity. *Journal of the Grassland Society of South Africa* 1(1): 16-19.

BEARDALL, G.M., JOUBERT, S.C.J. & RETIEF, P.F. 1984. An evaluation of the use of correspondence analysis for the analysis of herbivore habitat selection. *South African Journal of Wildlife Research* 14(3): 79-88.

BESTBIER, R.X., ROGERS, K.H., BLACKMORE, A., KRUGER, J. and BIGGS, H. 1996. Guidelines for Goal-Orientated Conservation. Report 1/96, Centre for Water in the Environment, University of the Witwatersrand, Johannesburg.

BEZUIDENHOUT, H. 1993. Syntaxonomy and synecology of western Transvaal Grasslands, South Africa. Ph.D thesis. University of Pretoria, Pretoria.

BEZUIDENHOUT, H. 1994. An ecological study of the major vegetation communities of the Vaalbos National Park. Northern Cape.1.The Than-Droogeveld section. *Koedoe* 37: 19-42

BEZUIDENHOUT, H. 1995. An ecological study of the major vegetation communities of the Vaalbos National Park. Northern Cape.2.The Graspan-Holpan section. *Koedoe* 38(2): 65-83

BEZUIDENHOUT, H, BREDEKAMP, G.J. & THERON, G.K. 1994. Phytosociological classes of the western Transvaal grassland, South Africa. *Koedoe* 37(1): 1-18. Pretoria. ISSN 0075-6458

BOOYSEN, J. (Undated) PLANTS SURVEY - A statistically justified point sampling apparatus for surveying rangelands. Unpublished User manual Dept of Plant Sciences, Potchefstroom University for Christian Higher Education

BOOYSEN, J & BOSCH, O.J.H. 1992. An integrated system for plant dynamics (ISPD): Configuration of a DSS applied in natural resource management. (Paper presented in May 1992, as part of the Third Southern African conference on Expert Systems (Expert 1992) Pretoria.

BOSCH O.J.H. 1989. Degradation of the semi-arid grasslands of southern Africa. *Journal of Arid environments*, 16: 143 - 147

BOSCH, O.J.H. & GAUCH, H.G. 1991. The use of degradation gradients for the assessment and ecological interpretation of range condition. *Journal of the Grassland Society of South Africa* 8(4)

BOSCH, O.J.H. & KELLNER, K. 1991. The use of degradation gradient for the ecological interpretation of condition assessments in the western grassland biome of southern Africa. *Journal of Arid Environments* 21: 21-29

BOSCH O.J.H. & BOOYSEN, J. 1992a. An integrative approach to rangeland condition and capability assessment. *Journal of Range Management*, 45(2): 116-122

BOSCH O.J.H. & BOOYSEN, J. 1992b. An Intergrated System for Plant Dynamics - A Decision Support Tool for use at the farm or paddock level. *Agricultural systems and Information technology*, 4(1): 34 - 36

BOSCH, O.J.H. & JANSE VAN RENSBURG, F.P. 1987. Ecological status of species on grazing gradients on the shallow soils of the western grassland biome in South Africa *Journal of the Grassland Society of South Africa* 4(4)

BOSCH, J.M., SCHULZE, R.E. & KRUGER, F.J. 1984. The effect of fire on water yield. In: *Ecological effects of fire in South African Ecosystems*, eds. P.de V Booyesen & N.M. Tainton. Springer-Verlag, Heidelberg. p 328- 348.

BOTHMA, J DU P. 1975. Conservation status of the larger mammals of Southern Africa. *Biol. Conserva.* 7:87-95

BOTHMA, J du P. 1989. *Game Ranch Management*. J.L. van Schaik, Pretoria.

BOTHMA, J du P. 1995. *Game Ranch Management*. J.L. van Schaik, Pretoria

BOTHMA, J DU P., PEEL, M.J.S., PETTIT, S & GROSSMAN, D. 1990. Evaluating the accuracy of some commonly used game counting methods. *South African Journal of Wildlife Research* 20(1): 26-32.

BRADY, N.C. 1984. *The nature and properties of soils*. Macmillan Publishers, New York.

BREDENKAMP, G.J. & DEUTSCHLÄNDER, M.S. 1995. New azonal syntaxa from the hills and river banks of the Manyeleti Game Reserve, Northern Transvaal Province, South Africa. *Koedoe* 38(1): 41 - 58 Pretoria.

BREDENKAMP, G.J. & THERON, G.K. 1976. Vegetation units for management of the grasslands of the Suikerbosrand Nature Reserve. *South African Journal of Wildlife Research*. 6(2): 113-122.

BREDENKAMP, G.J. & THERON, G.K. 1978. A synecological account of the Suikerbosrand Nature Reserve 1. The phytosociology of the Witwatersrand geological system. *Bothalia* 12: 513 - 529.

BREDENKAMP, G.J. & THERON, G.K. 1980. A synecological account of the Suikerbosrand Nature Reserve II. The phytosociology of the Ventersdorp geological system. *Bothalia* 12: 513 - 529.

---

BREDENKAMP, G.J. & THERON, G.K. 1991. The *Eucleo divinori-Acacietaum nigricentis*, a new association from the calcereous bottomland clays of the Manyeleti Game Reserve, Eastern Transvaal Lowveld, South Africa. *Vegetatio* 93: 119-130

BREYTENBACH, G.J. 1987. Small mammals dynamics in relation to fire. Pp 56-58. In: Cowling, R.M, Le Maitre, B., Mckenzie, B., Prys-Jones, R.P. & van Wilgen, B.W. (eds). Disturbance and the dynamics of fynbos biome communities. Pretoria. CSIR, National Scientific Programmes Unit (South African National Scientific Programme report no. 135.

ROCKETT, B.H., BIGGS, H.C. & VAN WILGEN, B.W. ( *in press*) A patch-mosaic burning system for conservation areas in southern African savannas. *International Journal of Wildland fire*.

BROWN, L.R. 1997. A plant ecological and wildlife management plan of the Borakolalo National Park, North West Province. PhD dissertation. University of Pretoria, Pretoria.

BROWN, L..R. & BREDENKAMP,G.J. 1994. The phytosociology of the southern section of Borakolalo National Park. *Koedoe*. 37(2): 59 - 72. Pretoria

BROWN, L..R., BREDENKAMP,G.J. & VAN ROOYEN, N. 1995. The phytosociology of the western section of Borakolalo National Park. *Koedoe*. 38(2): 49 - 64. Pretoria

BROWN, L..R., BREDENKAMP,G.J. & VAN ROOYEN, N. 1996. The phytosociology of the northern section of Borakolalo National Park. *Koedoe*. 39(1): 9 - 24. Pretoria

BUYS, D. 1990. Food selection by eland in the western Transvaal. *South African Journal of Wildlife Research* 20(1): 16-20

CARRUTHERS, V. 1990. The Magaliesberg. Southern Book Publishers. Johannesburg.

COERTZE, F.J. 1974. The geology of the Basic Portion of the Western Bushveld Igneous Complex. *Geol. Surv. Mem.* 66. Government printer. Pretoria.

COETZEE, B.J. 1975. A phytosociological classification of Rustenburg Nature Reserve. *Bothalia* 11: 561-580.

COETZEE, B.J. 1983. Phytosociology, vegetation structure and landscapes of the central district, Kruger National Park, South Africa. *Dissertationes Botanicae* 69: 1-456.

COETZEE, B.J. & GERTENBACH, W.P.D. 1977. Technique for describing woody vegetation and structure in inventory type classification, ordination and animal habitat survey. *Koedoe* 20: 67 - 75

COLLINSON, R.F.H. 1985. Selecting wildlife census techniques. Monograph 6. Institute for Natural Resources, Pietermaritzburg.

COLLINSON, R.F.H. & GOODMAN, P.S. 1982. An Assessment of Range Condition and Large Herbivore Carrying Capacity of the Pilanesberg Game Reserve, with Guidelines and Recommendations for Management. *Inkwe*. 1: 1-54

COOMBES, P.J. 1991. *Development of a grassland monitoring system for the management of the Wolkberg Wilderness Area*. Unpublished M.Sc Thesis. University of the Witwatersrand.

COOMBES, P.J. & MENTIS, M.T. 1992. A procedure for defining conservation management objectives and goals. In *Wildlife Ranching: A celebration of diversity*. Eds W. van Hoven, H Ebedes and A Conroy. 270 - 273. Promedia. Pretoria.

DE WET, S.F. 1988. Habitat en voedingsvoorkeure van die blouwildebees (*Connochaetes taurinus* Burchell, 1823) en ander diersoorte in die sentraal suid-oostelike gebied van die Nasionale Kruger wildtuin. M.Sc dissertations. University of Pretoria. Pretoria

DEKKER, B. AND N VAN ROOYEN. 1995. The physical environment and plant communities of the Messina Experimental Farm. *South African Journal of Botany* 61(3): 158-167

DEKKER, B, VAN ROOYEN, N.J. & BOTHMA, J, DU P . 1996. Habitat partitioning by ungulates on a game ranch in the Mopani veld. *South African Journal of Wildlife Research* 26 (4): 117-122

DÖRGELOH, W.G. 1996. Habitat selection of a roan antelope (*Hippotragus equinus* population in Mixed Bushveld, Nylsvlei Nature Reserve. *South African Journal of Wildlife Research* 28(2): 47-57

DÖRGELOH, W.G., VAN HOVEN, W & RETHMAN, N.F.G. 1996. Population growth of roan antelope under different management systems. *South African Journal of Wildlife Research* 26(4): 113-116

DU TOIT, K. 1992. Reddingsaksie vir waardevolle swartwitpense. *Landbouweekblad*: 46-49

ESTES, R.D. 1990. The behaviour guide to African mammals, including hoofed mammals, carnivores, primates. Russel Friedman Books

FAIRALL, N.1985. Manipulation of sex and age ratios to optimize production from impala *Aepyceros melampus* population. *South African Journal of Wildlife Management*. 15(3): 85-87.

FERRAR, A.A. 1983. Guidelines for the Management of Large Mammals in African Conservation Areas. *South African National Scientific Programmes, Report No. 69*. CSIR, Pretoria.

FORAN, B.1976. The development and testing of methods for assessing the condition of three grassveld types in Natal. Unpublished M.Sc thesis, University of Natal, Pietermaritzburg

FORAN, B., TAINTON, N.M. & BOOYSEN, P. De V. 1978 The development of a method for assessing veld conditions in three grassveld types in Natal. *Proceedings of the Grassland Society of South Africa* 13: 27 - 33

FOURIE, S.P., REILLY, B.K. & COOMBES, P.C. 1993. Aksieplan: Prosedurele-bestuursmodel vir provinsiale natuurreserve. *Internal Report. Transvaal Nature Conservation*.

FRANKLIN, J.F. 1993. Preserving Biodiversity: Species, ecosystems or Landscapes. *Ecological Applications* 3(2) pp. 203-205

FRASER, S.W., VAN ROOYEN, T.H. & VERSTER, E. 1987. Soil-plant relationships in the Central Kruger National Park. *Koedoe* 30: 19-34



FULS, E.R., BREDEKAMP, G.J. VAN ROOYEN, N & THERON, G.K. .1993. The physical environment and major plant communities of the Heilbron-Lindley-Villiers area, northern Orange Free State. *South African Journal of Botany* 59: 345-359

FURSTENBURG. D. 1991. Die invloed van tanniene in plante op die voedingsekologie van kameelperde (*Giraffa camelopardalis*) . M.Sc (Wildlife management) University of Pretoria, Pretoria.

GAUCH. H.G. 1982. Multivariate analysis in community ecology. Cambridge University press, Cambridge.

GERBER, C. 1989. Die voedingsekologie van die kameelperd, *Giraffa camelopardalis* in die Rustenburg Natuureservaat. *Report on a Wildlife Management project*. University of Pretoria. Pretoria

GERTENBACH, W.P.D. 1983. Landscapes of the Kruger National Park. *Koedoe* 26: 9-121.

GIBBS RUSSEL, G.E., WATSON, L., KOEKEMOER, M., SMOOK, L., BARKER, N.P., ANDERSON, H.M. & DALLWITZ, M.J. 1991. Grasses of southern Africa. *Memoirs of the Botanical Survey of South Africa* No. 58. Botanical Research Institute

GLEN-LEARY, J. 1990. Veld management by burning. *Farmer's weekly*. 32-35.

GOODMAN, P.S. & A.J. TOMKINSON. 1987. The past distribution of giraffe in Zululand and its implications for reserve management. *South African Journal of Wildlife Research* 173 (1): 28-32

GRIMSDELL, J.J.R. 1978. Ecological monitoring. *Serengeti Ecological Monitoring Programme Handbook No.4*

GROBLER, J.H. 1974. 'Aspects of the biology, population ecology and behaviour of the sable *Hippotragus niger niger* (Harris, 1838) in the Rhodes Matopos National Park, Rhodesia. *Arnoldia Rhodesia*. 7(6):1-36

GRUNOW, J.O. 1980. Feed and habitat preferences among some large herbivores on African veld. *Proceedings of the Grassland Society of South Africa*, 15:141 - 146

HEARD, C.A.H., TAINTON, N.M., CLAYTON, J.A. & HARDY, M.B. 1986. A comparison of five methods for assessing veld condition in the Natal Midlands. *Journal of the Grassland Society of South Africa* 3:70-76

HILL, M.O. 1979a: DECORANA: A fortran program for detrending correspondence analysis and reciprocal averaging. *New York: Cornell University*.

HILL, M.O. 1979b. TWINSpan: A fortran program for arranging multivariate data in an ordered two-way table by classification of individuals and attributes. *New York: Cornell University*.

HILL. M.O. & GAUCH. H.G. 1980. Detrended correspondence analysis, an improved ordination technique. *Vegetatio* 42: 47-58

HINDS, W.T. 1984. Towards monitoring of long-term trends in terrestrial ecosystems. *Environmental Conservation* 11: 11-18

HOBBS, R.J. & HUENNEKE, L.F. 1992. Disturbance, Diversity and Invasion: Implications for Conservation. *Conservation Biology* 6(3) pp.325 - 333

HUGO, M.L. 1979. Die potensiaal van die Magaliesberg vir ontspanningsdoeleindes. Unpublished M.Sc Thesis. University of Pretoria.

HURT, C.R. & BOSCH, O.J.H. 1991. A comparison of some range condition assessment techniques used in southern African grasslands. *Journal of the Grassland Society of South Africa* 8(4)

HURT, C.R. & HARDY, M.B. 1989. A weighted key species method for monitoring changes in species composition of Highland Sourveld . *Journal of the Grassland Society of South Africa* 6(3): 109-113

HURT, C.R., HARDY, M.B. & TAINTON, N.M. 1993. Identification of key grass species under grazing in the Highland Sourveld of Natal. *African Journal of Range and Forage Science* 10: 96-102

HUSTON, M.A. 1994. Biological diversity. The coexistence of species on changing landscapes. Cambridge University Press.

JACOBSEN, N.H.G. 1972. Project T.N. 6.3.3. A floristic survey of the provincial nature reserves, Transvaal. *Unpublished internal report No 4 Transvaal Nature Conservation*

JACOBSEN, W.B.G. 1989. The ferns and fern allies of southern Africa. Butterworths. Durban.

JANSE VAN RENSBURG, F.P. 1987. Plantegroeveranderinge op die ekotipe van 'n aantal landtipes in die grasveldbloom. M.Sc. Dissertation: PU for CHE. Potchefstroom 250pp

JANSE VAN RENSBURG, F.P. & BOSCH, O.J.H. 1990. Influence of habitat differences on the ecological grouping of grass species on a grazing gradient. *Journal of the Grassland Society of South Africa* 7(1): 11 - 15.

JANSEN, H. 1977. Die geologie van die landstreek rondom Pretoria. *Geol. Surv.* Government printer. Pretoria.

JONES, R.J & SANDLAND, R.L. 1974. The relation between animal gain and stocking rate: derivation of the relation from results of grazing trails. *Journal of Agricultural Science, Cambridge* 83: 335-342

JOOSTE, J.F & PALMER, N.G.. 1982. The distribution and habitat preference of some small mammals in the Rolfontein Nature Reserve. *South African Journal of Wildlife Research* 12 (1)

JORDAAN, F.P. 1997. Implementation of a computerized system for assessing rangeland condition and monitoring in a number of key grazing areas of the Western Grassland Biome. PhD Dissertation. University of Potchefstroom, Potchefstroom.

JOUBERT, S.C.J. 1976. *The population ecology of the roan antelope Hippotragus equinus equinus* (Desmarest, 1804) in the Kruger National Park. PhD Dissertation. University of Pretoria. Pretoria.

JUTA, M. 1936. The pace of the ox. A life of Paul Kruger.

KENT, L.E. 1980. Stratigraphy of South Africa. (Part 1). (comp. L.E Kent). Litostratigraphy of the Republic of South Africa, South West Africa/Namibie, Republic of Bophuthatswana, Transkei and Venda. *Handb. Geol. Surv. S. Afr.* 8. Government printer. Pretoria.

KERLEY, G.I.H. 1992. Ecological correlates of small mammal community structure in semi arid Karoo, South Africa. *Journal of Zoology, London* 227: 17-27

KOK, O.B. 1975. Gedrag en ekologie van die rooihartbees *Orange Freestate Nature conservation General publication* (4) Bloemfontein

KOK, O.B. & OPPERMAN, D.P.J. 1975. Voedingsgedrag van kameelperde *Giraffa camelopardalis* in die Willem Pretorius-wildtuin, Oranje Vrystaat. *South African Journal of Wildlife Research* 10: 45-55

KRIGE, F.N. 1993. Bestuursplan vir Rustenburg Natuurresewaat. *Unpublished internal report. Transvaal Nature Conservation.*

LABUSCHAGNE, E. 1983. Boekenhoutfontein. National Council of the Simon van der Stel Foundation. Promedia.

LAJEUNESSE, D., DOMON, G., DRAPEAU, P., COGLIASTRO, A. & BOUCHARD, A. 1995. Development and application of an ecosystem management approach for protected natural areas. *Environmental Management* 19(4) 481-495.

LE ROUX, C.J.G. 1979. The grazing capacity of the plains in the Ethosha National Park. *Proceedings of the Grassland Society of South Africa.* 14: 89-93

LE ROUX, C.J.G. 1988. The effect of veld burning and mowing on ungrazed tall grassveld of Natal. *Journal of the Grassland Society of South Africa.*

LIVERSIDGE, R & GUBB, A. 1994. Feeding competition between springbok and merino sheep. In: *Wildlife Ranching: A celebration of diversity.* Eds. W. v Hoven, H. Ebedes and A. Conroy. p 87 - 90. Promedia, Pretoria

LOUW, A.J. 1970. An ecological study of mopani veld north of the Soutpansberg. Unpublised D.Sc (Agric) Thesis. University of Pretoria

LOW, A.B. & REBELO, A.G. (Eds). 1996. Vegetation of South Africa, Lesotho and Swaziland. Department of Environmental Affairs and Tourism.

LUDICK, B.P. 1987. Riglyne vir grondgebruiksbeplanning in die redelike homogene boerderygebiede van die Substreek Lichtenburg geleë in die Hoëveldstreek, Department van Landbou en Watervoorsiening (Unpublished)

MacDONALD, I & GRIMSDELL, J, 1983. What causes change? - Getting at the facts. The role of ecological monitoring. In: Ferrar, A.C. (ed). *Guidelines for the Management of Large Mammals in African Conservation Areas*. South African National Scientific Programmes, Report No. 69. Council for Scientific and Industrial Research, Pretoria

MACVICAR, C.N., DE VILLIERS, J.M., LOXTON, R.F., VERSTER, E., LAMBRECHTS, J.J.N., MERRYWEATHER, F.R., LE ROUX, J., VAN ROOYEN, T.H., & VON M. HARMSE, H.J. 1977. Grondklassifikasie. 'n Binomiese sisteem vir Suid Afrika. Scientific report 390. Department Agricultural -Technical Services: Pretoria.

MACVIVAR, C.N., SCOTNEY, D.M., SKINNER, T.E., NIEHAUS, H.S. & LOUBSER, J.H. 1974. Classification of land primarily for rainfed agriculture. *South African Journal of Agricultural Extension*, 3: 22-24

MARTENS, J.C., DANCKWERTS, J.E., STUART-HILL, G.C. & AUCAMP, A.J. 1990. Use of multivariate techniques to identify vegetation units and monitor change on a livestock production system in a semi-arid savanna of the eastern Cape. *Journal of the Grassland Society of South Africa* 7: 184-189

MATTHEWS, W.S., BREDEKAMP, G.J. AND VAN ROOYEN, N.J.1992.The vegetation of the dry dolomitic regions of the north-eastern mountain sourveld of the Transvaal escarpment, South Africa. *Phytocoenologia* 20(4): 467-488

MATTHEWS, W.S., BREDEKAMP,G.J. AND VAN ROOYEN, N.J.1994. The phytosociology and syntaxonomy of relative low-altitude areas in the North-eastern Mountain Sourveld, in the eastern Transvaal escarpment region. *Koedoe* 37(2): 73-87

MELTON, D.A. & SNYMAN. A. 1989. The influence of farmland on eland in the Natal Drakensberg. *South African Journal of Wildlife Research* 19 (1): 26 - 30

MENTIS, M.T. 1977. Stocking rates and grazing capacity for ungulates on African Rangelands. *South African Journal of Wildlife Research* 7: 89-98

MENTIS, M.T. 1980. Towards a scientific management of terrestrial ecosystems. *South African Journal of Science*, 76: 536-540.

MENTIS, M.T. 1981. Evaluation of the wheel-point and step-point methods of veld condition assessment. *Proceedings of the Grassland Society of South Africa*

MENTIS, M.T. 1982. A simulation of the grazing of sour grassveld. Ph.D thesis. University of Natal, Pietermaritzburg, South Africa

MENTIS, M.T. 1983. Towards objective veld condition assessment. *Proceedings of the Grassland Society of South Africa* 18:77-80

---

MENTIS, M.T. 1984. Monitoring in South African Grasslands. *South African National Scientific Programmes Report* no. 91, Council for Scientific and Industrial Research, Pretoria

MENTIS, M.T. & COLLINSON, R.F.G. 1979. Management goals for wildlife reserves in grassveld and bushveld. *Proceedings of the Grassland Society of South Africa* 14: 771-784.

MENTIS, M.T. & DUKE, R.R. 1976. Carrying capacities of natural veld in Natal for large wild herbivores. *South African Journal of Wildlife Research* 6: 65 - 74.

MUNSELL SOIL COLOR CHART. 1954. Munsell color company, Inc. Baltimore 2, Maryland.

NEL, H.P. . 1992. Die monitering van plantegroei-dinamika op Rustenburg Natuurreseervaat en die aanwending daarvan in die bestuur van die reservaat. *Internal Report. Transvaal Nature Conservation.*

NEL, P.J., BREDEKAMP, G.J. & VAN ROOYEN, N. 1993. Ecological status of grass species in the red turfveld of the Springbok Flats Turf Thornveld, Transvaal. *South African Journal of Botany.* 59 (1) ; 45-49

NOSS, R.F. 1990. Indicators for monitoring biodiversity: a hierarchical approach. *Conservation Biology* 4: 355-364

NOVELLIE, P.A. 1990. Habitat use by indigenous grazing ungulates in relation to structure and veld condition. *Journal of the Grassland Society of South Africa* 7(1) 16-22



O'CONNELL, M.A. & R.F. NOSS. 1992. Private land Management for biodiversity Conservation. *Environmental Management* Vol. 16, No 4 pp 435-450

O'CONNOR, T.G. 1991. Determinants of herbaceous plant species compositions on a number of ranches in the North-western Transvaal. *Journal of the Grassland Society of South Africa* 8: 103-109

O'CONNOR, T.G. 1992. Woody vegetation-environment relations in a semi-arid savanna in the northern Transvaal. *South African Journal of Botany* 58(4) 268-274

OATES, L.G. 1972. Food preferences of giraffe in Transvaal Lowveld Mopane woodland. *South African Journal of Wildlife Research*, 2: 21-23

PALGRAVE, K.G. 1991. Trees of Southern Africa. Struik. Cape Town.

PAUW, J.C. 1988. Riglyne vir die bestuur van die natuurlewe in die bosveldgemeenskappe van die Atherstone Natuurresewaat in die Noordwes Transvaal. Unpublished M.Sc Thesis. University of Pretoria.

PEEL, M.J.S. 1990. Determinants of veld composition on a number of ranches in the north-western Transvaal. M.Sc Dissertation. University of Pretoria, Pretoria

PEEL, M.J.S. & BOTHMA, J du P. 1995. Comparison of the accuracy of four methods commonly used to count impala. *South African Journal of Wildlife Research* 25(2): 41-43

PEEL, M.J.S., GROSSMAN, D. & VAN ROOYEN, N. 1991. Determinants of herbaceous plant species compositions on a number of ranches in the North-western Transvaal. *Journal of the Grassland Society of South Africa* 8: 99-102

PERRIN, M.R. & TAOLO, C. 1999. Habitat use by a herd of introduced roan antelope in Kwazulu-Natal, South Africa. *South African Journal of Wildlife Research* 29(3): 72-80

PIENAAR, U de V. 1974. Habitat preferences in South African antelope species and its significance in natural and artificial distribution patterns. *Koedoe* 17: 185-195

PIETERSEN, L.N, MEISSNER, H.H & PIETERSEN, E.W. 1993. Food selection and intake by male impalas in the Timbavati area. *South African Journal of Wildlife Research* 23 (1): 6 - 11

PRINS, H.H.T & VAN DER JEUGD, H.P. 1992. Growth rates of shrubs on different soils in Tanzania. *Afr. J. Ecol.* 30: 309 - 315

QUATTRO PRO. 1993, 1994. Novell PerfectOffice. V 6.0. © Novell, Inc. United States

REILLY, B.K. 1994. Aerial game counts: of what real value? *Farmers weekly.* 20 - 21.

REILLY, B.K. & EMSLIE, R.H. 1998. Power and precision of replicated helicopter surveys in mixed bushveld. *Koedoe* 41(1): 47-56. Pretoria. ISSN 0075-6458

REILLY, B.K. & MACFAYDEN, I.D. 1992. An eco-systemic procedural model for the Ecological Management of Letaba Ranch Game Reserve, Gazankulu. *In Wildlife Ranching: A celebration of diversity.* Eds W. van Hoven, H. Ebedes and A. Conroy. p 266 - 269 Promedia, Pretoria

RINGOLD, P.L, J. ALEGRIA, R.L. CZAPLEWSKI, B.S. MULDER, T. TOLLE & K BURNETT. 1996. Adaptive monitoring design for ecosystem management. *Ecological Applications*, 6(3) pp. 745 - 747

RISSEER, P.G. 1995. Biodiversity and ecosystem function. *Conservation biology* 9(4) 742 - 746

RUTHERFORD, M.C. & WESTFALL, R.H. 1994. Biomes of Southern Africa: An objective categorization. *Mem. Bot. Surv. S. Afr.* 63:1-94

SCHEEPERS, J.C. 1983. Progress with vegetation studies in South Africa. *Bothalia* 14: 683-690.

SCHMIDT, A.G. 1992. Guidelines for the management of some Game Ranches in the mixed bushveld communities of the north-western Transvaal, with special reference to Rhino Ranch. M.Sc (Wildlife Management) dissertation. University of Pretoria.

SCHOLES, R.J. & WALKER, B.H. 1993. An African Savanna. Synthesis of the Nylsvley study. Cambridge University Press.

SCHULZE, B.R. 1947. The climate of South Africa according to the classification of Koppen and Thornwaite. *South African Geography Journal*. 29: 32-42

SCHULZE, B.R. 1965. Klimaat van Suid Afrika. Deel 8. Algemene oorsig. WB. 28. Staatsdrukker, Pretoria.

SCHULZE, R.E. 1980. The land use component in hydrological modelling: an evaluation. University of Natal, Department of Agricultural Engineering. *ACRU report 9 1-38*

SCHULZE, E. 1992. Riglyne vir natuurlewe bestuur op die Imberbe Game Lodge in die Noordwes-Transvaal. M.Sc (Wildlife Management) dissertation. University of Pretoria.

SCHULZE, E., G.K. THERON AND W. VAN HOVEN. 1994. The vegetation and identification of management units of the Imberbe Game Lodge in the mixed Bushveld of the north-western Transvaal. *South African Journal of Botany* 60(2): 85-93

SHACKLETON, C.M. & SCHOLES, R.J. 2000. Impact of fire frequency on woody community structure and soil nutrients in the Kruger National Park. *Koedoe* 43 (1): 75 - 82. Pretoria. ISSN 0075-6458.

SIEGFRIED, W.R. & DAVIES, B.R. 1982. Conservation of ecosystems, theory and practice. South African National Scientific Programmes Report no. 61, Council for Scientific and Industrial Research, Pretoria.

SMIT, C.M., BREDENKAMP, G.J. & VAN ROOYEN, N.J. 1993. Plant communities of the Ad landtype in the New Castle - Memel - Chelmsford Dam area. *South African Journal of Botany* 59: 116-122

SMITH, D.C. 1992. Bestuursriglyne vir Doornpoort Eksperimentele wildsplaas.. Unpublished M.Sc Thesis. University of Pretoria.

SKINNER, J.D. & SMITHERS, R.H.N. 1990. The mammals of the southern African Sub-region. University of Pretoria. Pretoria.

SNYMAN, D.D. 1989. Verwantskappe tussen veldtoestande, reeënval en dierebelading in die Mopanieveld. M.Sc.(Wildlife Management) dissertation. University of Pretoria;

SOIL CLASSIFICATION WORKING GROUP. 1991. Soil classification. A taxonomic system for South Africa. *Memoirs on the Agricultural Natural Resources of South Africa* 15: 1-257

STOLS, S.H.E., BOOYSEN, J. & BOSCH, O.J.H. 1992. An Integrated System for Plant Dynamics(ISPD): Development of a customised Expert system for natural resource Management. *Proceedings EXPERT 92, Real world applications and techniques in expert systems*. Pretoria.

STUART-HILL, G.C. 1988. Adaptive Management: the only viable method of veld management. *Dohne Agric*. Vol 10(1): 14-16

TAINTON, N.M. 1988. A consideration of veld condition assessment techniques for commercial livestock production in South Africa. *Journal of the Grassland Society of South Africa* 5(2): 76-79.

TAINTON, N.M., EDWARDS, P.J. & MENTIS, M.T. 1980. A revised method for assessing veld condition. *Proceedings of the Grassland Society of South Africa*, 15:37-42

---

TAINTON, N.M., B.D. FORAN & P. DE VBOOYSEN. 1978. The veld condition score: An evaluation in situations of past management. *Proceedings of the Grassland Society of South Africa*, 13:35-40

TCHEBAKOVA, N.M., MONSERUD, R.A., LEEMANS, R & GOLOVANOV, S. 1993. A global vegetation model based on the climatological approach of Budkyo. *Journal of Biogeography* 20: 129 - 144.

THOMPSON, R. 1986. On Wildlife Conservation. United Publishers International, New York.

TIDMARSH, C.E.M & HAVENGA, C.M. 1955. The wheelpoint method of survey and measurement of semi-open grassland and Karoo vegetation in South Africa. *Memiors of the Botanical Society of South Africa*, Pretoria: Government Printer No 29

TROLLOPE, W.S.W. 1978. Fire behaviour - a preliminary study. *Proceedings of the Grassland Society of South Africa* No.13(4):pp123-128.

TROLLOPE, W.S.W. 1981. Application of Grassland management principles. In: *Veld and Pasture Management in South Africa*.pp 481. Ed. N.M. Tainton. Shuter & Shooter, Pietermaritzburg in association with the University of Natal Press, Pietermaritzburg

TROLLOPE, W.S.W. 1984. Fire in Savannas. In: *Ecological effects of fire in South African Ecosystems*, Pp 149 - 175 eds. P.de V Booyesen & N.M. Tainton. Springer-Verlag, Heidelberg.

TROLLOPE, W.S.W. 1989. Veld burning as a management practice in livestock production. In: *Veld Management in the Eastern Cape*. Eds. J.E. Danckwerts & W.R. Teague. Dept. of Agric. and Water Supply. Gov. Printer, Pretoria

TROLLOPE, W.S.W. 1990. Veld management with specific reference to game ranching in the grassland and savanna areas of South Africa. *Koedoe* 33(2): 77-87 Pretoria. ISSN 0075-6458.

TROLLOPE, W.S.W. & POTGIETER, A.L.F. 1986. Estimating grass fuel loads with a disc pasture meter in the Kruger National Park. *Journal of the Grassland Society of South Africa* No.3(4): pp148-152.

TROLLOPE, W.S.W, POTGIETER, A.L.F & ZIMBATHI, N. 1996. A structured versus a *laissez faire* approach to controlled burning in the Kruger National Park in South Africa. *Congress 31 of the Journal of the Grassland Society of South Africa* , Nelspruit, South Africa.

TYSON. P.D. 1987. Climatic change and variability in southern Africa. Oxford University press. Cape Town.

VAN DEN BERG, J.A. & ROUX, P.W. 1974. Handleiding vir die evaluering van veld met behulp van 'n keurkaart. Unpublished report, Department of Agriculture.

VAN ROOYEN, N. 1983. Die plantegroei van die Roodeplaatdam Natuureservaat. II. Die Plantgemeenskappe. *Suid Afrikaanse Tydskrif vir Plantkunde* 2: 115-125

VAN ROOYEN, N. 1984. 'n Fenologiese studie van die plantegroei van die Roodeplaatdam Natuureservaat. P.hD. Dissertation University of Pretoria, Pretoria.

VAN WYK, B. & MALAN, S. 1988. Veldgids tot the veldblomme van die Witwatersrand- en Pretoria-gebied. Struik, Cape Town.

VAN OUDTSHOORN, F.P. 1992. Guide to the grasses of South Africa. Briza. Arcadia.

VAN GOGH, J & ANDERSON, J. 1988. Bome en struik van die Witwatersrand, Magaliesberg en Pilanesberg, Struik Publishers, CapeTown, South Africa

VAN VUUREN, D.R.J. & VAN DER SCHIJFF, H.P. 1970. ' n Vergelykende ekologiese studie van die plantegroei van 'n noordelike en suidelike kloof van die Magaliesberg. *Tyds. Natuurw.*10: 16-75

VENTER, J. 1994. An intergrated monitoring system for large herbivore and veld management on an Eastern Transvaal game ranch. *In Wildlife Ranching: A celebration of diversity.* Eds W. van Hoven, H. Ebedes and A. Conroy. p - Promedia, Pretoria

VERSFELD, D.B. 1978. Rainfall interception in stands of *Pinus radiata* D Don. Unpublished report, Jonkershoek Forestry Research Station, 1-15.

VOGT, M. 1982. Suid Afrika se Proteaceae, ken hulle en kweek hulle. Struik Cape Town.

VON GADOW, K. 1978. Setting goals in Forest Management. *South African Forestry Journal* No. 106. p 2-9.



VORSTER, M. 1982. The development of the Ecological Index method for assessing veld condition in the Karoo. *Proceedings of the Grassland Society of South Africa* No 17: 84-89

WALKER, .H.1976. An assessment of the ecological basis of game ranching in southern African savannas. *Proceedings of the Grassland Society of South Africa*.11: 125-130

WALKER, R.S. 1988. A gradient analysis of grassed mountain catchments in the Natal Drakensberg. *Journal of the Grassland Society of South Africa* 5(4): p179-185

WALRAVEN, F. 1981. The geology of the Rustenburg Area. *Geol. Sur.* Government printer. Pretoria.

WALTER, H. 1979. *Vegetation of the Earth and Ecological Systems of the Geobiosphere.* Springer-Verlag New York Inc.

WEATHER BUREAU. 1988. *Climate of South Africa. Climate statistics up to 1988.* Weather Bureau. Department of Environmental Affairs, Pretoria

WENTZEL, J.J., BOTHMA, J.DU P. & VAN ROOYEN, N. 1991. Characteristics of the herbaceous layer in preferred grazing areas of six herbivore species in the south-eastern Kruger National Park. *Koedoe* 34:51-59

WERGER, M.J.A. 1974. On concepts and techniques applied in the Zurich-Montpellier method of vegetation survey. *Bothalia* 11: 309-323

WESTOBY, M., WALKER, B. & NOY-MEIR, I. 1989. Opportunistic management for rangelands not at equilibrium. *Journal of Range Management*, 42 (4): 266-274.

WESTOBY, M. 1980. Elements of a theory of vegetation dynamics in arid rangelands. *Isreal Journal of Botany*, 28: 169-194.

WHYTE, I.J., BIGGS, H.C., GAYLARD, A & BRAACK, L.E.O. 1999. A new policy for the management of the Kruger National Park's elephant population. *Koedoe* 42(1): 111-132. Pretoria

WICHT, C.L. 1971. The influence of vegetation in South African mountain catchments on water supplies. *South African Journal of Science* 67 pp201-209

WILDLIFE MANAGEMENT COURSE. Transvaal Nature Conservation. Internal course.

WILMOTT, C.J. 1982. Some comments on the evaluation of model performance. *Bulletin American Metereological Society*, 63(11): 1309-1313.

WILSON, D.E. 1975. Factors affecting roan and sable antelope populations on nature reserves in the Transvaal with particular reference to ecophysiological aspects. Annual report. Transvaal Nature Conservation Pretoria.

WULFSOHN, L. 1993. Local Nature Reserve. An article in the Rustenburg Herald. 24 September 1993.

---

## Appendix 1

A list of the plant species founded during the study

### Acanthaceae

*Thunbergia batriolicifolia* E.Mey. ex Nees  
*Thunbergia neglecta* Sond.  
*Chaetacanthus costatus* Nees.  
*Chaetacanthus setiger* (Pers.) Lindl.  
*Ruellia cordata* Thunb.  
*Ruellia patula* Jacq.  
*Crabbea hirsuta* Nees.  
*Barleria pretoriensis* C.B.Cl.  
*Hypoestes forskalii* (Vahl) R. Br.  
*Justicia anagalloides* T. Anders

### Adiantaceae

*Adiantum c.f. Adiantum poiretii* Wikstr.  
*Cheilanthes viridus* (Forsk.) Swartz var. **glauca** (Sim) Schelpe & N.C Anthony  
*Pellaea calomelanos* (Sw.) Link

### Aizoaceae

*Delosperma herbeum* (N.E.Br.) N.E. Br.  
*Frithia pulcra* N.E. Br.  
*Khadia acutipetala* N.E. Br.

### Amarantaceae

*Achyranthes aspera* L.  
*Gomphrena celosioides* Mart.

### Amaryllidaceae

*Haemanthus humilis* Herb.  
*Boophane disticha* Herb.  
*Crinum graminicola* Verdoorn.  
*Crinum bulbispermum* (Burm.f.)Milne-Redh. & Schweick.  
*Scadoxus puniceus* (L) Friis & Nordal  
*Hypoxis rigidula* Bak.  
*Hypoxis obtusa* Burch. ex Edwards

### Anacardiaceae

*Rhus zeyheri* Sond.  
*Rhus discolor* E.Mey. ex Sond.  
*Rhus lancea* L.f.  
*Rhus leptodictya* Diels  
*Rhus magalismsontanum* Sond.  
*Rhus pyroides* Burch.  
*Rhus rigida* Mill.  
*Lannea edulis* (Sond.) Engl.  
*Lannea discolor* (Sond.) Engl.

Apocynaceae

*Acokanthera oppositifolia* (Lam.) L.E. Codd  
*Ancylobotrys capensis* Oliv.

Aquifoliaceae

*Ilex mitis* (L.) Radik.

Araliaceae

*Cussonia paniculata* Eckl. & Zeyh.

Asclepiadaceae

*Cryptolepis oblongifolia* (Meisn.) Schltr.  
*Raphionacme burkei* N.E. Br.  
*Raphionacme hirsuta* (E.Mey.) R.A. Dyer.  
*Asclepias aurea* Schltr.  
*Pentarrhinum insipidum* E. Mey.  
*Sarcostemma viminale* R.Br.  
*Brachystelma barberiae* Harv. ex Hook  
*Stapelia leendertziae* N.E.Br.  
*Huernia hystrix* (Hook.f.) N.E. Br, var **hystrix**

Asparagaceae

*Asparagus cooperi* Bak.  
*Asparagus krebsianus* Kunth. (Jessop)  
*Asparagus laricinus* Burch.  
*Asparagus suaveolens* Burch.  
*Asparagus virgatus* (Bak. & Oberm.)

Aspleniaceae

*Ceterach cordatum* (Thunb.) Desv.

Asteraceae

*Dicoma anomala* Sond. subsp. **circooides** (Harv.) Wild  
*Blumea mollis* (D.Don) Merr  
*Athrixia elata* Sond.  
*Senecio oxyriifolius* DC.  
*Aster peglerae* H.Bol.  
*Vernonia hirsuta* (DC.) Sch. Bip.  
*Vernonia natalensis* Sch. Bip.  
*Vernonia oligocephala* (DC.) Sch. Bip. ex Walp.  
*Vernonia poskeana* Vatke & Hildebr. var. *poskeana*.  
*Vernonia staehelinooides* Harv.  
*Vernonia sutherlandii* Harv.  
*Adenostemma cafferum* DC.  
*Felicia muricata* Nees.  
*Aster harveyanus* Kuntze.  
*Psiadia punctula* (DC.) Vatke  
*Nidorella anomala* Steetz.  
*Nidorella auriculata* DC.



*Nidorella residifolia* subsp. **residifolia**  
*Nidorella hottentottica* DC.  
*Conyza bonariensis* Cronquist.  
*Conyza albida* Spreng.  
*Conyza podocephala* DC.  
*Conyza ulmifolia* (Burm.) Kuntze.  
*Nolletia rarifolia* (Turcz.) Steetz.  
*Brachylaena rotundata* DC.  
*Tarchonanthus camphoratus* L.  
*Denekia capensis* Thunb.  
*Helichrysum aureonifens* Sch. Bip.  
*Helichrysum caespititium* Sond.  
*Helichrysum cerastioides* DC.  
*Helichrysum coriaceum* Sond.  
*Helichrysum nudifolium* (L.) Less.  
*Helichrysum rugulosum* Less.  
*Helichrysum setosum* Harv.  
*Stoebe vulgaris* Levyns.  
*Bidens pilosa* L.  
*Tagetes minuta* L.  
*Artemisia afra* Jacq.  
*Lopholaena coriifolia* (Sond.) Phill. & C.A. Sm.  
*Senecio affinis* DC.  
*Senecio erubescens* Ait. form.  
*Senecio inornatus* DC.  
*Senecio pentactinus* Klatt.  
*Senecio serratuloides* DC.  
*Senecio venosus* Harv.  
*Ursinia nana* DC. subsp. **nana**  
*Gazania krebsiana* Less. subsp. **serrulata** (DC.) Roessl.  
*Berkheya zeyheri* (Sond. & Harv.) Oliv. & Hiern subsp. **zeyheri**.  
*Dicoma zeyheri* Sond.  
*Gerbera piloselloides* (L.) Cass.  
*Sonchus dergeanus* DC.  
*Sonchus oleraceus* L.

#### Boraginaceae

*Ehretia rigida* (Thunb.) Druce.

#### Brassicaceae

*Cassia mimosoides* L.

#### Campanulaceae

*Wahlenbergia caledonica* Sond.

#### Capparaceae

*Cleome monophylla* L.

#### Caryophyllaceae

*Silene burchelli* Otth.



Cesalpiniaceae

*Burkea africana* Hook.

Celastraceae

*Maytenus tenuispina* (Sond). Marias  
*Maytenus polycantha* (Sond). Marias  
*Maytenus heterophylla* (Eckl. & Zeyh.) N.K.B. Robson  
*Maytenus undata* (Thund). Blakelock

Chrysobalanaceae

*Parinari capensis*

Combretaceae

*Combretum apiculatum* Sond. subsp. *apiculatum*  
*Combretum erythrophyllum* (Burch.) Sond.  
*Combretum molle* R. Br ex G. Don.  
*Combretum zeyheri*.

Commelinaceae

*Commelina africana* L.  
*Commelina benghalensis* L.  
*Commelina erecta* L.  
*Cyanotis speciosa* (L.) Hassk.

Convolvulaceae

*Ipomoea bathycolpos* Hall.f. var. *bathycolpos*.  
*Ipomoea crassipes* Hook.  
*Ipomoea ommaneyi* Rendle>  
*Turbina oblongata* (E.Mey. ex Choisy) A. Meeuse.

Crassulaceae

*Cotyledon orbiculata* L. var *oblonga* (Haw.) DC  
*Andromischus umbraticola* C.A. subsp *umbraticola*  
*Crassula alba* Forsk.var.*alba*  
*Crassula capitella* Thunb. subsp. *nodulosa* (Schonl.)  
*Crassula lanceolata* (Echl. & Zeyh.) Endl. ex Walp. subsp. *transvaalensis* (Kuntze)  
*Kalanchoe paniculata* Harv.  
*Kalanchoe thyrsoiflora* Harv.

Cyatheaceae

*Cyathea dregei* Kze.

Cyperaceae

*Cyperus albostriatus* Schrad.  
*Cyperus rupestris* Kunth.  
*Cyperus sphaerospermus* Schrad.  
*Bulbostylis burchellii* C.B. Cl.  
*Bulbostylis oritrepes* (Ridl.) C.B. Cl.  
*Coleochloa setifera* (Ridl.) Gilly.  
*Mariscus congesta* C.B. Cl.



*Ficinia filiformis* (Lam.) Schrad.  
*Kyllinga alba* Nees

Dennstaedtiaceae

*Pteridium aquilinum* (L.) Kuhn.

Dichapetalaceae

*Dichapetalum cymosum* (Hook.) Engl.

Dipsacaceae

*Scabiosa columbaria* L.

Ebenaceae

*Euclea crispa* (Thunb.) Guerke var. **crispa**.  
*Euclea undulata* (Thunb.)  
*Diospyros lycioides* Desf. subsp. **guerkei** (Kuntze) de Wint.  
*Diospyros whyteana* (hiern) F. White.

Ericaceae

*Erica woodii* H.Boll

Euphorbiaceae

*Acalypha petiolaris* Hochst.  
*Acalypha angustata* Sond. *glabra* Sond.  
*Euphorbia shinzii* Pax  
*Clutia pulchella* L.  
*Croton gratissimus* Burch. var. **subgratissimus** (Prain) Burtt Davy  
*Phyllanthus parvulus* Sond.  
*Tragia rupestris* Sond.

Fabaceae

*Tephrosia elongata* E. Mey. var **elongata**  
*Tephrosia longipes* Meisn. subsp **longipes**  
*Sphenostylis angustifolia* Sond.  
*Ophrestia oblongifolia* (E.May) H.M. Forbes  
*Mundulea sericea* A. Chev.  
*Lotonis calycina* (E.Mey) Benth. var. **hirsutissima** Duemmer  
*Crotolaria lotoides* Benth  
*Rhynchosia monophylla* Schltr.  
*Rhynchosia nitens* Benth  
*Rhynchosia totta* (Thund.) DC  
*Indigofera burkeana* Benth. ex Harv.  
*Indigofera comosa* N.E. Br.  
*Indigofera hedyantha* Eckl. & Zeyh.  
*Indigofera melandenia* Benth. ex Harv.  
*Pearsonia cajanifolia* (Harv.) Polhill subsp **cajanifolia**

Flacourtiaceae

*Kiggelaria africana* L.

Gentianaceae

*Chironia purpurascens* (E.Mey.) Benth. & Hook.f. subsp. *humilis* (Gilg) Verdoorn.

Gunneraceae

*Gunnera perpensa* L.

Guttiferae

*Hypericum aethiopicum* Thunb. subsp. *sonderi* (Bred) Robson.

Halorrhagidaceae

*Gunnera perpensa* L.

Hypoxidaceae

*Hypoxis obtusa* Burch. ex Edwards  
*Hypoxis rigidula* Bak.

Iridaceae

*Moraea thomsoni* Bak.  
*Schizostylis coccinea* Backh. & Harvey.  
*Dierama medium* N.E. Br. var. *mossii* Ne. Br.  
*Gladiolus crassifolius* Bak.  
*Gladiolus edulis* Burch. ex Ker.  
*Lapeirousia sandersonii* Bak.  
*Anomatheca laxa* (Thunb.) Goldbl.  
*Anomatheca grandiflora* Bak.

Labiatae

*Leonotis microphylla* Skan.  
*Pycnostachys reticulata* Benth.  
*Plectranthus madascariensis* Pers. Benth. var. *ramosior* Benth  
*Becium obovatum* (E. Mey. ex Benth.) N.E. Br.

Lamiaceae

*Acrotome hispida* Benth.  
*Teucrium trifidum* Retz.

Lentibulariaceae

*Utricularia arenaria* A.DC.

Liliaceae

*Aloe greatheadii* Schonl.  
*Aloe marlothii* Berg.  
*Aloe mutabilis* Pillans.  
*Aloe peglerae* Schonl.  
*Albuca* sp. cf. *A. setosa* Jacq.  
*Aloe transvaalensis* Kuntze  
*Bulbine narcissifolia* Salm-Dyck  
*Ledebouria ovatifolia* Jessop  
*Ledebouria marginata* (Bak.) Jessop.





*Ledebouria revoluta* (L.f.) Jessop.  
*Scilla nervosa* (Burch.) Jessop.  
*Eucomis autumnalis* (Mill.) Chitt. var. *clavata*

Loganiaceae

*Strygnos pungens* Solered.  
*Nuxia congesta* R. Br. ex Fresen.  
*Buddleja saligna* Willd.  
*Buddleja salviifolia* (L.) Lam.

Loranthaceae

*Tapinanthus rubromarginatus* (Engl.) Danser

Malpighiaceae

*Sphedamnocarpus pruriens* (Juss.) Szyszyl. var **pruriens**

Malvaceae

*Sida cordifolia* L.  
*Pavonia burchellii* (DC) R.A. Dyer.  
*Hibiscus aetiopicus* L. var. *ovatus* Harv.  
*Hibiscus calyphyllus* Cav.  
*Hibiscus engleri* K. Schum.  
*Hibiscus microcarpus* Garcke.  
*Hibiscus trionum* L.

Mimosaceae

*Acacia karroo* Hayne  
*Acacia caffra* (Thunb) Willd.  
*Elephantorrhiza elephantina* (Burch.) Skeels  
*Dichrostachys cinerea* (L.) Wight & Arn. subsp. **africana** Brenan & Brumm.

Moraceae

*Ficus ingens* (Miq.) Miq.

Myrsinaceae

*Myrsine africana* L.

Ochnaceae

*Ochna pulchra* Hook

Olacaceae

*Ximenia caffra* Sond.

Oleaceae

*Olea europaea* L. *subsp africana* (Mill.)

Oliniaceae

*Olinia emarginata* Burt Davy.



Onagraceae

*Kohautia amatymbica* Eckl. & Zeyh.

Orchidaceae

*Eulophia ovalis* Lindl. subsp. *bainesii* (Rolfe) Hall.

Oxalidaceae

*Oxalis obliquifolia* Steud. ex Rish.

Pittosporaceae

*Pittosporum viridiflorum* Sims

Poaceae

*Urelytrum agropyroides* Hack.  
*Elionurus muticus* (Spreng.) Kunth  
*Imperata cylindrica* (L.) Raeuschel.  
*Miscanthus junceus* (Stapf) Stapf.  
*Schizachyrium sanguineum* (Retz.) Altz  
*Diheteropogon amplexans* (Nees) W.D. Clayton.  
*Andropogon appendiculatus* (Steud.)  
*Andropogon huillensis* Rendle  
*Andropogon schinzii* Hack.  
*Andropogon schirensis* A. Rich.  
*Cymbopogon plurinodes* Stapf.  
*Cymbopogon validus* Stapf.  
*Hyparrhenia filipendula* (Hochst.) Stapf var. *pilosa* (Hack.) Stapf.  
*Hyparrhenia hirta* (L.) Stapf  
*Monocymbium ceresiiforme* (Nees) Stapf.  
*Trachypogon spicatus* (L.f.) Kuntze.  
*Heteropogon contortus* (L.) Beauv.  
*Themeda triandra* Forsk.  
*Digitaria diagonalis* (Nees) Stapf.  
*Digitaria eriantha* Steud.  
*Digitaria monodactyla* (Nees) Stapf.  
*Digitaria tricholaenoides* Stapf.  
*Brachiaria brizantha* (Hochst) Stapf.  
*Brachiaria nigropedata* (Munro) Stapf.  
*Brachiaria serrata* (Spreng) Stapf.  
*Urochloa panicoides* Beauv.  
*Panicum maximum* Jacq.  
*Panicum natalense* Hochst.  
*Setaria lindenbergiana* (Nees) Stapf.  
*Setaria sphacelata* (Schumach) Stapf. & C.E. Hubb.  
*Melinis repens* (Willd) C.E. Hubb.  
*Melinis nerviglume* (Franch.) Zizka  
*Tricholaena monache* (Trin.) Stapf & C.E. Hubb.  
*Arundinella nepalensis* Trin.  
*Tristachya biseriata* Stapf.  
*Tristachya leucotrix* Nees.  
*Tristachya rehmannii* Hack.  
*Loudetia flavida* (Stapf) C.E. Hubb.  
*Loudetia simplex* (Nees) C.E. Hubb.  
*Phragmites mauritianus* Kunth.  
*Aristida aequiglumis* Hack.



*Aristida congesta* Roem. & Schult. subsp. **barbicoiliis** (Trin. & Rupr.) De Wint.  
*Aristida diffusa* Trin. var. **burkei** (Stapf) Schweick.  
*Aristida junciformis* Trin. s Rupr. subsp. **galpinii** (Stapf) de Wint.  
*Bewsia biflora* (Hack.) Goossens  
*Alloteropsis semialata* (R.Br) Hitchc.  
*Tragus berteronianus* Schult.  
*Perotis patens* Gand.  
*Sporobolus fimbriatus* Nees.  
*Eragrostis capensis* (Thunb.) Trin.  
*Eragrostis curvula* (Schrad.) Nees.  
*Eragrostis gummiflua* Nees.  
*Eragrostis racemosa* (Thunb.) Steud.  
*Eragrostis stapfii* De Wint.  
*Eragrostis superba* Peyr.  
*Harpochloa falx* (L.) Kuntze.  
*Eustachys paspaloides* (Vahl) Lanza & Mattei.  
*Pogonarthria squarrosa* (Licht.) Pilger.  
*Diplachne biflora* Hack.  
*Cynodon dactylon* Pers. Rich.  
*Triraphis andropogonoides* (Steud.) Phillips.  
*Trichoneura grandiglumis* (Nees) Stapf & C.E. Hubb.  
*Enneapogon scoparius* Stapf.

#### Polygonaceae

*Polygonum lapathifolium* L.  
*Polygonum pulchrum* Blume.  
*Oxygonum dregeanum* Meisn.  
*Persicaria attentuata* (R.Br) Sojak subsp *africana* K.I. Wilson

#### Portulacaceae

*Talinum cafferum* (Thunb.) Eckl. & Zeyh.  
*Anacampseros subnuda* Von Poelln.  
*Portulaca kermesina* N.E. Br.

#### Proteaceae

*Faurea saligna* Harv.  
*Protea caffra* Meisn.  
*Protea welwitschii* Engl. subsp. **glabrescens** (Beard).  
*Protea gagedi* Gmel.

#### Ranunculaceae

*Clematis oweniae* Harv  
*Clematis brachiata* Thund.

#### Rhamnaceae

*Berchemia zeyheri* (Sond). Grubov  
*Ziziphus mucronata* Willd. subsp **mucronata**  
*Helinus integrifolius* (Lam.) Kuntze

#### Rosaceae

*Rubus rigida* J.E.Sm.



Rubiaceae

*Tricalysia lanceolata* Sond.  
*Rubia petiolaris* DC  
*Vangueria infausta* Burch  
*Oldenlandia herbacea* (L.) Roxb.  
*Rothmannia capensis* Thunb.  
*Pentanisia angustifolia* Hochst.  
*Vangueria infausta* Burch.  
*Pygmaeothamnus zeyheri* (Sond.) Robyns.  
*Tapiphyllum parvifolium* (Sond.) Robyns.  
*Canthium suberosum* Codd.  
*Canthium gilfillani* (N.E. Br) O.B. Miller.  
*Anthospermum hispidulum* E. Mey.  
*Anthospermum rigidum* Eckl. & Zeyh.

Rutaceae

*Zanthoxylum capense* (Thunb.) Harv.

Santalaceae

*Osyris lanceolata* Hochst. ex Steud.  
*Thesium cf. costatum* A.W. Hill  
*Thesium magalismsontanum* Sond.  
*Thesium transvaalensis* Schltr.  
*Thesium utile* A.W. Hill

Sapindaceae

*Pappea capensis* Eckl. & Zeyh.

Sapotaceae

*Englerophytum magalismsontanum* Heine & J.H.Hensley.  
*Mimisops zeyheri* Sond.

Schizaeceae

*Mohria caffrorum* (L.) Desf.

Scrophulariaceae

*Cycnium adonense* E. Mey ex Benth.  
*Striga elegans* Benth  
*Nemesia fruticans* Thund. (Benth)  
*Halleria lucida* L.  
*Sutera caerulea* Hiern.  
*Sutera burkeana* (Benth) Hiern.  
*Zaluzianskya katharinae* Hiern.  
*Craterostigma wilmsii* Engl.  
*Hebenstretia elongata* Bolus.  
*Walafrida densiflora* Rolfe.  
*Cycnium adonense* E. Mey.  
*Striga elegans* (L.) Kuntze.  
*Graderia subintegra* Mast.



Selaginellaceae

*Selaginella dregei* (Presl) Hieron.

Solanaceae

*Solanum giganteum* Jacq.  
*Solanum incanum* L.  
*Solanum panduriforme* E. Mey.  
*Solanum retroflexum* Dun.  
*Datura stramonium* L.

Sterculiaceae

*Dombeya rotundifolia* (Hochst.) Planch.  
*Hermannia depressa* N.Br

Thymelaeaceae

*Triumfetta sonderi* Ficalho & Hiern.

Tiliaceae

*Grewia occidentalis* L.

Ulmaceae

*Celtis africana* Burm.f.

Urticaceae

*Urera tenax* N.E. Br.  
*Droguetia iners* (Forsk.) Schweinf. subsp. *iners*  
*Obetia tenax* (N.Br.)

Velloziaceae

*Xerophyta retinervis* Bak.

Verbenaceae

*Lippia javanica* (Burm.f.) Spreng.  
*Verbena bonariensis* L.  
*Lantana rugosa* Thunb.  
*Plexipus hederaceus* Sond.

Vitaceae

*Cyphostemma lanigerum* (Harv.) Descoings ex Wild  
*Rhiocissus tridentata* (L.f) Wild & Drum. subsp. *cuneifolia*