

References

- A.P.R.U. 1978. Beef cattle and range research programme in Botswana, 1970 – 1977. Ministry of Agriculture, Gaborone, Botswana.
- AFRIYIE, E. K. 1976. Human resources of the Okavango area: some implications for developments projects. In: *Proceedings Symposium of the Okavango Delta and its future utilisation*. Botswana Society. Gaborone. pp 93 - 112.
- ANDERSON J.M. & INGRIM J. S. I. 1989. *Tropical soil biology and fertility : a handbook of methods*. CAB International, Wallingford, UK.
- ARMSTRONG, W., BRAINDLE, R. & JACKSON, M.B. 1994. Mechanism of flood tolerance in plants. *Acta Botanica Neerlandica*. **43**:307 - 358
- AUSTIN, M.N., PATTINSON, N.B., BRANSBY, D.I., & TAINTON, N.M. 1981. Sequential estimation of dry matter *in situ* under rapidly changing conditions. *Proc. Grassld Soc. sth. Afr.* **16**:95 - 97..
- B.R.I.M.P. 1996. Vegetation monitoring user's manual, First working draft for field evaluation. Ministry of Agriculture. Gaborone, Botswana
- BARBOUR M.G., BURK, J.H. & PITTS, W.D. 1987. *Terrestrial Plant Ecology*. Third Edition The Benjamin/Cummings Publishing Company, Inc, California
- BIGGS, R.C. 1979. The Ecology of Chief's Island and the adjacent floodplains of the Okavango Delta, Botswana. Masters of Science Thesis. University of Pretoria, Pretoria.
- BLOM, C.W.P.M. & VOESENEK, L.A.C.J. 1996. Flooding: the survival strategies of plants. *TREE*. **11**: 290 - 295.
- BLOM, C.W.P.M., BOGEMANN, G.M., LAAN, P., VAN DE SMAN., VAN DE STEEG. & VOESENEK. 1990. Adaptation to flooding in plants from river areas. *Aq. Bot.* **38**: 29 - 47
- BONYONGO. M.C., GABAAKE, A., LECHA, R.T., PARRY, D., PHETO., RAMBERG, L., ROSS, K, & VEENENDAAL, E. M. 1996. A report on the scoping meeting regarding the environmental impact assessment of the proposed water carrier from the Okavango River to Central Namibia. Okavango Research Centre. University of Botswana
- BRANDY, N.C. 1990. *The nature and properties of soils*. Tenth Edition. Mcacmillan Publishing Company. New York.

- BRANSBY, D. I. & TAITON, N.M. 1977. The disk pasture meter: possible applications in grazing management. *Proc. Grassl. Soc. Sth. Afr.* **12**:115-118
- BRANSON, F. A. 1962. Botanical analysis and sampling natural: Natural pastures and range. In: *Pasture and range research techniques*. Comstock Publishing Associates. Ithaca, NY
- BREDENKAMP, G. J. & BEZUIDENHOUT, H. 1995. A proposed procedure for the analysis of large data sets in the Clasification of South African Grasslands. *Koedoe*. **38**:33-39
- BREDENKAMP, G. J. & THERON, G. K. 1988. The relationship between soil chemistry and plant species distribution in the Manyeleti Game Reserve, South Africa. *S. A. J. Bot.* **84**: 423 - 427.
- BREDENKAMP, G.J. 1982. Plantsosiologiese studie van die Manyeleti wilduin. D.Sc thesis, University of Pretoria, Pretoria.
- BREDENKAMP, G.J. 1985. An evaluation of the relative importance of certain habitats factors that influence the distribution of plant species in Manyeleti Game reserve, Gazankulu, South Africa. *Coenos* **2**: 29 - 38.
- BREDENKAMP, G.J. 1987. An overview of major plant communities of Manyeleti Reserve. *S. Afr. J. Bot.* **51**: 194 - 196.
- BREDENKAMP, G.J., BEZUIDENHOUT, H., BOSCH, O.J.H & JANSE VAN RENSEBERG, F.P. 1991. A comparison of vegetation Classifications from wheel point and total floristic data sets. *Botanical Bulletin*, Academia Sinica. **32**: 187 - 195.
- BREITBART, R. & SCHALK, B. 1989. Soil mapping and advisory services: Laboratory procedures revised manual. Gaborone, Botswana.
- BROWN, B.J. & EWEL, J.J. 1988. Responses to defoliation of species-rich and monospecific tropical plant communities. *Oecologia*. **75**: 12 - 19.
- BROWN, D. 1954. *Methods of surveying and measuring vegetation*. Bradley & Son Limited. Reading, England.
- BROWN, L.R., BREDENKAMP, G. J. & VAN ROOYEN, N. 1995. Phytosociology of the Northern section of the Borakalalo Nature Reserve. *Koedoe*. **39**: 9-24

- BURGOYNE, P.M. 1996. Phytosociology of the north eastern Transvaal high mountain grasslands. M. Sc. Thesis. University of Pretoria. Pretoria.
- BUXTON, D.R. & FALES, L.S. 1994. Plant environment and quality. In: FAHEY, J.C. (ed) *Forage quality, evolution and utilisation*. American Society of Agronomy. Madson, WS.
- CAMPBELL, A. C. & VON RICHTNER, W. 1976. The Okavango Delta and tourism. . In: *Proceedings of the Symposium of the Okavango Delta an its future use*. Botswana Society. Gaborone. pp 93 - 112.
- CAMPBELL, A. C. 1976. Traditional utilisation of the Delta. In:*Proceedings of the Symposium of the Okavango Delta and it future use*. Botswana Society. Gaborone. pp 93 - 112.
- CARTER, J. F. 1962. Herbage sampling for yield: Tame pastures. In: *Pasture and range research techniques*. Comstock Publishing Associates. Ithaca, NY
- CHAPMAN, S.B. 1976. *Methods in plant ecology*. Blackwell Scientific publications. London
- COETZEE, J.P. 1993. Phytosociology of the Ba and Ib land types in the Pretoria-Witbank-Heidelberg area. M Sc. thesis. University of Pretoria, Pretoria.
- COETZEE, J. P., BREDEKAMP, G.J. & VAN ROOYEN, N. 1995. The phytosociology of the grasslands of the BA and IB land types in the Pretoria - Witbank - Heidelberg area. *S. Afr. J. Bot.* **61**: 123 - 133.
- COOK, C W. & STUBBENDIEK, J. 1986. *Range research basic problems and techniques*. Society for Range Management. Denver, Colorado.
- COOKE, H. J. 1976. The palaeogeography of the middle Kalahari of Northern Botswana and adjacent areas. In :*Proceedings of the Symposium on the Okavango Delta and its future utilisation*. Botswana Society, Gaborone. pp21 - 28.
- COOPER, SM., OWEN-SMITH N. & BRYANT J.P. 1988. Foliage acceptibility of browsing ruminants in relation to seasonal changes in the chemistry of woody plant species in a South African savanna. *Oecologia*. **75**: 336 - 342
- COTTENIE, A., VERLOO, M., KIEKENS, L., VELGHE, G. & CAMERLYNCK, R. 1982. Chemical analysis of plants and soils . Laboratory of Analytical and Agrochemistry. State University . Ghent, Belgium.

- COTTRELL, T. R. 1996. Use of plant strategy ordination, DCA and ANOVA to elucidate the relationships among habitats of *Salix planifolia* and *Salix monticola*. *J. Veg. Sci.* 7:237-346.
- CRAWLEY, M.J. 1983. *Herbivory: The dynamics of animal-plant interactions*. Blackwell Scientific Publications. London.
- CUMMING, D. H. M. 1982. The influence of large herbivores on Savanna structure in Africa. In Huntly, B. H. & Walker, B. H. (ed). *Ecology of tropical savannas*. Springer-Verlag Berlin Heidelberg, New York.
- D.S.L 1987. Map of the Okavango Delta. Gaborone.
- DANCKWERTS, J.E. & TROLLOPE, W.S.W. 1980. Assessment of the disc pasture meter on natural veld in the false thornveld of the Eastern Province. *Proc. Grassl. Soc. Sth. Afr.* 15: 47 - 52.
- de RIDDER, N., BENJAMIN, R. W. & van KEULEN. H. 1984. Forage selection and performance of sheep grazing dry annual range. *J. Arid Env.* 10: 39-51.
- de RIDDER, N., STROOSNIJDER, L., CISSE, A. M. & van KEULEN, H. 1992. *Productivity of Sahelian rangelands, PSS course book Vols I & II*, Wageningen Agricultural University. Department of Soil Science and Plant Nutrients. Wageningen, The Netherlands
- DEAN, J.A. 1995. *Analytical Chemistry Handbook*. Mc Graw-Hill, INC. New York.
- DEKKER, B. & VAN ROOYEN, N. 1995. The physical environment and plant communities of the Messina Experimental farm. *S. Afr. J. Bot.* 1: 158 - 167.
- DIARRA, L. 1988. Changes in *Vetiveria nigriflora* and *Eragrostis barteri* grasslands in the Niger floodplain, central Mali. ILCA Bulletin. Addis Ababa. Ethiopia.
- DIARRA, L., HIERNAUX, N. & de LEEUW. 1993. Foraging behaviour of cattle grazing semi-arid rangelands in the Sahel of Mali. In: ICLA(eds) *Livestock and sustainable nutrient cycling in mixed farming systems of sub-Saharan. Volume II: Technical papers*. Proceedings of an International Conference International Centre for Africa (ILCA). Addis Ababa, Ethiopia
- DOWNING, B. H. 1979. Grass protein content and soil factors affecting area selective grazing by wild herbivores in the Umfolozi game reserve, Zululand. *Grassl. Soc. Sth. Afr.* 14: 85 - 88
- ECKHARDT, H. C. 1993. A synecological study of the vegetation of the North-eastern Orange Free State. M. Sc. thesis. University of Pretoria, Pretoria

- EDWARDS, P.J. 1981. Multiple use of grassland resources. In: Smith, A.L. & Virgil, W. H. (Ed). *Proceedings of XIV international grassland congress*. Boulder Colorado.
- ELLENBROEK, G. A. & WERGER, M. J. A. 1988. canopy structure and production of floodplain grasslands at Kafue Fltas, Zambia. Plant form and vegetation structure. Academic Publishing. The Hague, The Nethalands.
- ELLENBROEK, G.A. 1987. *Ecology and productivity of an African wetland system*; The Kafue Flats, Zambia. DR W. Junk Publishers. Boston.
- ELLERY, K. 1987. Wetlands plant community composition and successional proces in the Maunachira River system of the Okavango Delta. M. Sc. Thesis. The University of Witwatersrand.
- ELLERY, K., ELLERY, W.N., ROGERS K.H., & WALKER, B.H. 1991. Water depth and biotic insulation: Major determinants of back-swamp plant community composition. *Wet. Eco. and Mngmnt*. 1: 149 - 162.
- ELLERY, W.N., ELLERY, K & McCARTHY, T.S. 1993. Plant distribution in the Island of the Okavango Delta, Botswana: Determinants and feedback interactions. *Afr. J. Eco.* 31:118-134.
- ELLERY, W.N., ELLERY, K., ROGERS K. H., McCARTHY, T.S & WALKER, B.H. 1990. Vegetation of the channels of the northeastern Okavango Delta, Botswana. *Afr. J. Ecol.* 28: 276-290
- ENGELAAR, W. M. H. G. & BLOM C. W. P. M. 1995. Effects of floding and trampling on the performance of river foreland species *Rumex* and *plantago*. *Acta Botanica Neerlandica*. 44: 225 - 245.
- FICK, G.W., WILKENS, P.W. & CHERNEY, J.H. 1994. Modelling forage quality changes in the growing crop. In: FAHEY, J.C (ed) *Forage quality, evolution and utilisation*. American Society of Agronomy. Madson, WS.
- FULS, E. R. 1990. Some important concepts and perspectives in rangeland ecosystem dynamics and their significance for rangeland science. M.Sc. thesis. Potchefstroom University. Potchefstroom.
- FULS, E. R. 1993. Vegetation ecology of Northern Orange Free State. PhD Thesis. University of Pretoria. Pretoria.
- FURNESS, H. D. & BREEN. 1980. The vegetation of the seasonally flooded areas of the Pongolo River Floodplain. *Bothalia*, 13: 217 - 231.

- GIBBS-RUSSELL, G.E., WATSON, L., KOEKEMOER, M., SMOOK, L., BARKER, N.P., ANDERSON, H. M. & DALLWITZ, M. J. 1991. Grasses of Southern Africa. *Mem. Bot. Surv. S. A.* 58
- GIESKE, A. 1995. Vegetation driven groundwater recharge below the Okavango Delta (Botswana) as a solute sink mechanism an indicative model. *Groundwater recharge and rural water supply conference.* p119 - 124. Johannesburg.
- GORDON, I. J. 1989. Vegetation community selection by ungulates on the Isle of Rhum. II. Vegetation community selection. *J.Appl. Eco.* 26: 53-64
- GREIG-SMITH, P. 1983. *Studies in Ecology Vol. 9: Quantitative Plant Ecology.* University of California Press, Berkeley and Los Angeles.
- GRIFFIN, J. L. & JUNG, G.A. 1983. Yield and forage quality. In: Smith, A.L. & Virgil, W. H. (Eds). *Proceedings of XIV international grassland congress.* Boulder Colorado.
- GRIMSDELL, J. J. & BELL, R. H. V. 1976. The Bengweula Basin of Zambia. . In: *Proceedings of the Symposium of the Okavango Delta and its future utilisation.* Botswana Society. Gaborone.
- HALL, D.O., SCURLOCK, J.M.O., BOLHAR-NORDENKAMPF, H.R., LEEGOOD, R.C., & LONG, S.P. 1993. *Photosynthesis and production in a changing environment; A field manual.* Chapman & Hall. London . UK.
- HASCHICK, S.L. & KERLEY. 1997. Factors influencing forage preference of bushbuck and boer goats for Subtropical Thicket plants. *Afri. J. Range. For. Sci.* 14: 49-55.
- HEADY, H.F. 1964. *Rangeland Management.* McGraw-Hill Book Company. New York.
- HENDRY, G.A.F. & GRIME. J.P. 1993. *Methods in comparative plant ecology: a laboratory manual.* Chapman and Hall. London.
- HENDZEL, L. 1981. *Range management handbook for Botswana.* Division of Land Utilization, Ministry of Agriculture. Gaborone, Botswana.
- HENNEKENS, S. M. 1996a. TURBO(VEG). Software package for input, processing and presentation of phytosociological data. User's guide. IBN-DLO/ University of Lancaster.

- HENNEKENS, S.M. 1996b. MEGATAB. A visual editor for phytosociological tables. Version 1.0. User's guide. Gisen & Geurts, Ulft.
- HILL, M. O. 1979a. DECORANA. *A Fortran program for detrended correspondence analysis and reciprocal averaging*. Cornell University. Ithaca, N.Y.
- HILL, M. O. 1979b. TWINSpan. A FORTRAN program for arranging multivariate data in an ordered two-way table by classification of individuals and attributes. Cornell University, Ithaca, N.Y.
- HILL, M. O. 1994. DECORANA and TWINSpan, for ordination and classification of multivariate species data: a new edition together with supporting programs, in Fortran 77. Huntingdon: Institute of Terrestrial Ecology
- HOARE, D. B. 1997. Syntaxonomy and synecology of the grasslands of the southern parts of the Eastern Cape. M.Sc thesis. University of Pretoria, Pretoria.
- HUGHES, F.M.R. 1990. The influence of flooding regimes on forest distribution and composition in Tana river floodlain, Kenya. *J. Appl. Eco.* 27: 475 - 491
- HURD R.M & BLASER, R.E. 1962. Palatability of herbage. In: *Pasture and range research techniques*. Comstock Publishing Associates. Ithaca, NY
- HUTCHINS, D.G., HUTTON, S.M.R. & JONES, C.R. 1976. The geology of the Okavango Delta. In: *Proceedings of the symposium of the Okavango Delta and its future utilisation*. Botswana Society. Gaborone.
- IUCN. 1993. The IUCN review of the Southern Okavango Integrated Water Development Project. The IUCN Wetland Programme.
- JONES, J.B., WOLF, B., & MILLS, H. A. 1991. *Plant analysis handbook, a practical sampling, analysis, and interpretation guide*. Micro-Macro Publishing, Inc.
- JONES. G. 1979. *Vegetation productivity; Topics in applied geography*. Longman Group Limited. London
- KENNEDY, W. K. 1962. Chemical composition of pasture herbage. . In: *Pasture and range research techniques*. Comstock Publishing Associates. Ithaca, NY
- KENT, M. & COKER, P. 1992. *Vegetation Description and Analysis, A Practical Approach*. John Wiley & Sons. New York.
- KERSHAW, A.K. 1973. *Quantitative and Dynamic Plant Ecology*. Second Edition. Edward Arnold London.

- KING, W.A. 1962. Animal behaviour. In: *Pasture and range research techniques*. Comstock Publishing Associates. Ithaca, NY
- KOZLOWSKI, T.T. 1984. Extent, causes, and impacts of flooding: In: *Flooding and plant growth*. Academic Press. INC. Florida.
- LANDON, J.R. 1984. *Booker Tropical soil manual*. Booker Agricultural International Limited. London.
- LUCAS, H.L. 1962. Determination of forage yield and quality from animal responses. In: *Range research methods*. U.S. Department of Agriculture. Denver, Colorado.
- LUTGE, B.U., HARDY, M.B. AND HATCH, G.P. 1996. Plant sward response to patch grazing in the Highlands Sourveld. *Afr. J. Range & For. Sci.* **13**: 94-99.
- MacARTHUR, R.H. 1965. Patterns of Species Diversity. In: Patrick, R. (eds.). *Diversity*. Hutchinson Ross Publishing Company, Stroudsburg, Pennsylvania.
- McCARTHY & ELLERY, W.N. 1995. Failure of the Ngora channel between Hamoga and Leteneto Islands, Northeastern Okavango Delta *Botswana Notes and Rec.* **27**: 129 - 136.
- McCARTHY T.S., ELLERY W.N. & ELLERY K. 1993. Vegetation-induced, subsurface precipitation of carbonate as an aggradational process in the permanent swamps of the Okavango(delta) fan, Botswana. *Chemical Geology*, **107**:111-131.
- McCARTHY, T.S. 1993a. The Great inland Deltas of Africa. *J. Afr. Earth. Sci.* **17**: 275-291
- McCARTHY, T.S. 1993b. Physical and Biological processes controlling the Okavango Delta- A review of recent research. *Bots. Notes and Rec.*
- McCARTHY, T.S., ELLERY, W.N. & STANISTREET. G.I. 1992. Avulsion mechanisms on the fan, Botswana: the control of fluvial systems by vegetation. *Sedimentology*, **39**:779-795
- McCARTHY, T.S., STAINSTREET, I. G. & CAINCROSS, B. 1991. The Sedimentary dynamics of active fluvial channels on the Okavango fan, Botswana. *Sedimentology*, **38**:471-487.
- McNAUGHTON, J. S. 1979. Three grassland-herbivore dynamics. In: Sinclair, A.R.E and Norton-Griffith (eds). *Serengeti, dynamics of an ecosystem*.

- McNAUGHTON, S. J. 1988. Mineral nutrients and spatial concentration of African ungulates. *Nature*, 334:343-344
- McNAUGHTON, S. J. & SABUNI. 1988. Large mammals as regulators of vegetation structure. In Werger, M.J.A., van der Aart, P.J.M., During, H.J., and Verboeven, J.T.A. (ed). *Plant form and vegetation structure*, pp. 339-354. SPB Academic Publishing, The Hague, The Netherlands.
- McNAUGHTON, S.J. 1992. Laboratory-simulated grazing: Interactive effects of defoliation and canopy closure of Serengeti grasses. *Ecology*. 73: 170 - 182
- MERRON, G. S. 1991. The Ecological management of fishes of the Okavango Delta, Botswana, with particular reference to the role of seasonal floodplains. PhD thesis. Rhodes University.
- MERTENS, D.R. 1994. Regulations of forage intake. In: FAHEY, J.C (ed) *Forage quality, evolution and utilisation*. American Society of Agronomy. Madson, WS
- MILES, J. 1979. *Vegetation Dynamics*. John Wiley & Sons. New York.
- MILES, J. 1987. Soil variation caused by plants: a mechanism of floristic change in grasslands: In: Van ANDEL, J., Bakker, J. P. & SNAYDON, R.W (eds). *Disturbance of grasslands, causes, effects and process*. DR W. Junk Publishers, Dordrecht.
- MINSON, D. J. AND McLEOD. 1972. The In Vitro Technique: Its modification for estimating digestibility for large numbers of samples. Division of Tropical Pastures technical papers No. 8. Commonwealth Scientific and industrial research organization, Australia.
- MUELLER-DOMBOIS. & ELLENBERG, H. 1974. *Aims and Methods of vegetation Ecology*. First Edition. John Wiley & Sons. New York.
- N.A.S.A.W.C. 1991. The Handbook of standard soil testing for advisory purposes. Soil Science Society of South Africa. Pretoria. South Africa.
- NELSON, C. J. & MOSER, L.E. 1994. Plant factors affecting forage quality. In: FAHEY, J.C (ed) *Forage quality, evolution and utilisation*. American Society of Agronomy. Madson, WS
- NOY-MEIR, I., GUTMAN, M., and KAPLAN, Y. 1989. response of mediterranean grasslands plants to grazing and protection. *J. of Eco*. 77: 290 - 310
- O'CONNOR, T.G. 1992. Patterns of plant selection by grazing cattle in two savanna grasslands: A plant's eye view. *J.Grassl. Soc. Sth. Afr* . 9:97-103.

- O'REAGAIN, P.J. & MENTIS, M. J. 1989. Sequence and process of species selection by cattle in relation to optimal foraging theory on an old land in Natal Sour Sandveld. *J.Grassl. Soc. Sth. Afr.* 6 (2).
- O'REAGAIN, P.J., GOETSCH, B.C. & OWEN-SMITH, R. N. 1996. Effects of species composition and sward structure on the ingestion behaviour of cattle and sheep grazing South African Sourveld. *J.I of Agric.I Sci.*. Cambridge. 127: 271-280.
- O'REAGAIN. 1990. The relationship between sward and structure, ingestive behaviour and dietary quality in cattle grazing a *Chloris gayana* pasture. *J. Grassld Soc. South. Afr.* 7(2).
- OMPFILE, U. 1997. Seasonal diet selection and quality of large savanna ungulates in Chobe National Park, Botswana. PhD thesis. University of Wyoming. Laramie, Wyoming.
- O.R.C. 1996. A preliminary survey of the floodplain at Nxaraga lagoon. HOORC. Maun
- ORLOCI, L. 1967. An agglomerative method for classification of plant communities. *J. Ecol.*. 55: 193 - 206.
- OWEN-SMITH, N. 1982. Factors influencing the consumption of plant products by large herbivores. In Huntly, B. H. & Walker, B. H (ed). *Ecology of tropical savannas*. Springer-Verlag Berlin Heidelberg, New york.
- OWEN-SMITH, N. & COOPER S.M. 1987. Palatability of woody plants to browsing in South African Savanna. *Ecology*. 68: 319-331.
- PATERSON, J.A., BELYEA, R.L., BOWMAN, J.P., KERLEY, M.S. & WILLIAMS J.E. 1994. The impact of forage quality and supplementation regime on ruminant animals intake and performance. In: *Pasture and range research techniques*. Comstock Publishing Associates. Ithaca, NY.
- PATTERSON, L. 1976. An introduction to the ecology and zoogeography of the Okavango Delta. In: *The Proceedings of the symposium on the Okavango Delta and its future utilisation*. Botswana Society. Gaborone.
- PATTINSON, N.B., BRANSBY, D. I. & TAINTON, N.M. 1981. Relationship between time spent grazing, quality, quantity, and availability of herbage consumed by grazing animals on Kikuyu and Coastcross II. *Proc. Grassld Soc. sth Afr.* 16: 103-105.

- PENNING de VRIES, F.W.T. & DJITEYE, M.A. 1982 (eds). *La productivité des pâturages sahéliennes*, Centre for agricultural Publishing and Documentation, Wageningen, The Netherlands.
- PERKINS, L. 1997. Aspects of syntaxonomy and synecology of the grasslands of Southern Kwazulu-Natal. M.Sc. thesis. University of Pretoria. Pretoria.
- PONNAMPERUMA, F. N. 1984. Effects of flooding on soils. In: *Flooding and plant growth*. Academic Press. INC. Florida.
- POWELL, M., SEBOGO, R. & BONYONGO, M.C. 1996. Inventory and structural analysis of rangelands for use with the animal production simulation and range assessment model for Botswana (A.B.S.R.A.M.B). Ministry of Agriculture. Gaborone, Botswana.
- POWELL, M.J. & PULLES, J.H.M. 1996. The animal production simulation and range assessment model for Botswana (A.B.S.R.A.M.B), Volume I, user manual and vegetation inventory.
- PROJECT MEMO. 1995. Project memorandum. Development of the Okavango Research Centre. University of Botswana.
- REID, J. T, 1962a. Animal performance. In: *Pasture and range research techniques*. Comstock Publishing Associates. Ithaca, NY
- REID, J. T. 1962b. Indicator methods in herbage quality studies. In: *Pasture and range research techniques*. Comstock Publishing Associates. Ithaca, NY.
- REPPERT, J. N., HUGHES, H. R. & DUNCAN, D. A. 1962. Vegetation measurement and sampling herbage yield and its correlation with other plant measurements. In: *Range research methods; A symposium*. U.S. Department of Agriculture. Denver, Colorado.
- ROBERTS, J. & LUDWIG, J. A. 1991. Riparian vegetation along the current exposure gradients in floodplain wetlands of the River Murray, Australia. *J. of Ecol.* 79: 117 - 127
- S.M.E.C. 1986. A profile for environment and development in Botswana. Ministry of Local Government and Lands, Ngamiland District Land Use Planning Unit. Government of Botswana.
- S.M.E.C. 1989. Ecological zoning Okavango Delta. Ministry of Local Government and Lands, Ngamiland District Land Use Planning Unit. Government of Botswana.

- S.M.E.C. 1991. Southern Okavango intergrated water development study. Ministry of Mineral Resources and Water affairs, Department of water affairs. Government of Botswana.
- SANCHEZ, J.M., IZCO, J. & MENDRANO, M. 1996. Relationships between vegetation zonation and altitude in a salt-marsh system in northwest Spain. *J. V Veg.Sci.* 7: 695 - 702.
- SHEPHERD, W.O. 1962. Herbage sampling for yield in natural pastures and range. In: *Pasture and range research techniques*. Comstock Publishing Associates. Ithaca, NY.
- SINGER, M. J. & MUNNS, D. N. 1887. *Soils; An introduction*. Macmillan Publishing Company.
- SMITH, P. A. 1976. An outline of the vegetation of the Okavango drainage system. In: *Proceedings Symposium of the Okavango Delta and its future utilisation*. Botswana Society. Gaborone.
- SNAYDON, R.W. 1987. Population responses to environmental disturbances. In: Van ANDEL, J., Bakker, J. P. & SNAYDON, R.W (eds). *Disturbance of grasslands, causes, effects and process*. DR W. Junk Publishers. Dordrecht.
- SPEARS, J.W. 1994. Minerals in forages. In: FAHEY, J.C (ed) *Forage quality, evolution and utilisation*. American Society of Agronomy. Madson, WS
- STANISTREET, I.G & McCARTHY, T.S. 1993. The Okavango Fan and classification of subaerial fan system. *Sedimentary Geology*. 85: 115-133.
- STUTH, J.W., LYONS, R. K & KREUTER. U.P. 1995. Animal/plant interactions: Nutrient acquisition and use by ruminants (Keynote paper). In: ICLA (eds). *Livestock and sustainable nutrients cycling in mixed farming systems of sub-Saharan Africa. Volume II.: Technical papers. Proceedings of an International Conference International Livestock Centre (ICLA)*. Addis Ababa, Ethiopia.
- SUTCLIFFE, J. V. 1976. Hydrological study of the southern Sudd region of the Upper Nile. . In: *Proceedings of the Symposium of the Okavango Delta and its future utilisation*. Botswana Society. Gaborone.
- SWAINE, M.D. 1996. Rainfall and soil fertility as factors limiting forest species distribution in Ghana. *J. of Eco.* 84:419 - 428.

- TEAGUE, W. R. 1989a. Effects of intensity and frequency of defoliation on aerial growth and carbohydrates reserve levels in *Acacia karroo* plants. *J. Grassld. Sth. Afr.* 6 (3).
- TEAGUE, W.R. 1989b. Patterns of selection of *Acacia karroo* by goats and changes in tannin levels and *in vitro* digestibility following defoliation. *J. Grassld. South Afr.* 6 (4).
- Ter BRAAK, C. J. F. 1986. Cononical correspondence analysis: a new eigenvector technique for multivariable direct gradient analysis. *Ecology* 67: 1167-79.
- TINLEY, J.M.A., & TERRY, R.A. 1963. A two way stage for *in vitro* digestion of forage crops. *J. Br. Graddl. Soc.* 18: 104- 111.
- TOTHILL, J.C. & PETERSON, M. L. 1962. Botanical analysis and sampling: Tame pastures. In: *Pasture and range research techniques*. Comstock Publishing Associates. Ithaca, NY
- TOTOLO, O. 1999. University of Botswana. Private Bag 22. Gaborone . Botswana.
- VALLENTINE, J.F. 1990. *Grazing Management*. First Edition. Academic Press, Inc. San Diego
- van de RIJLT, C. W. C.J., HAZELHOFF, L. & BLOM, C.W.P.M. 1996. Vegetation zonation in the former tidal areas: A vegetation-type response model based on DCA and ogistic regresion using GIS. *J of Veg. Sci.* 7: 505 - 518.
- van DUIVENBODEN, N. 1993. Grazing as a tool for rangeland management in semi-arid regions: a case study in north west coastal zone. of Egypt. *Agriculture, Ecosystems and Environment.* 43: 309-324.
- van SOEST, P. 1982. *Nutritional ecology of ruminants : Ruminant metabolism, utritional strategies, the cellulolytic fermentation and the chemistry of forages and plant fibres*. Comstock Publishing Associates. Ithaca.
- WALKER, B. H. 1976. An approach to the monitoring of changes in the composition and utilization of woodland and savanna vegetation. *S. Afr. J. of Wldlife Res*, 6: 1-32.
- WATER AFFAIRS, 1996. Inflow records sheets. Department of water affairs, Maun, Botswana
- WERGER, M. J. A. 1974. On concepts and techniques applied in the Zurich-Montpellier method of vegetation survey. *Bothalia* 11: 309-323

- WESTOFF, V. & Van der Maarel, E. 1978. The Braun-Branquet approach. In: Whittaker (eds.) *Classification of plant communities*. W. Junk, The Hague.
- WHITTAKER, R. H. 1980. *Classification of Plant communities*. Junk. The Hague.
- WHITTAKER, R.H. 1982. *Ordination of Plant Communities*. Dr W. Junk b.v.- Publishers. The Hague.
- WHITTAKER, R. H. 1987. An application of Detrended Correspondence Analysis and non-metric multidimensional scaling to the identification and analysis of environmental factor complexes and vegetation structures. *J. of Ecol.* 75: 363-376.
- WILSON, B. H. & DINCER, T. 1976. An introduction to the hydrology of the Okavango Delta. In: *Proceedings of the Symposium on the Okavango Delta and its future utilisation*. Botswana Society. Gaborone.
- WILSON, B. H. 1973. Some natural and man-made changes in the channels of Okavango Delta. *Bots. Notes and Rec.* 5: 132 - 153
- WOODWARD, A. & REED, J.D. 1989. The influence of polyphenolics on the nutritive value of browse: A summary of research conducted at ILCA. ILCA Bulletin. Addis Ababa. Ethopia.
- WOOLFOLK, P.G. 1962. Measuring yield by animal performance. In: *Pasture and range research techniques*. Comstock Publishing Associates. Ithaca, NY