

9

MINISTRY OF AGRICULTURE

BIBLIOGRAPHY OF PAPERS WHICH MAY RELATE TO  
SOIL FORMATION AND DISTRIBUTION IN KENYA

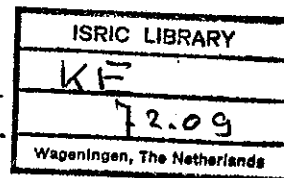
(1930 - 1971)

Prepared by: The Soil Science Section, National  
Agricultural Laboratories, NAIROBI. Feb. 1972.

BIBLIOGRAPHY OF PAPERS WHICH MAY RELATE TO  
SOIL FORMATION AND DISTRIBUTION IN KENYA

---

Prepared by the Soil Science Section National  
Agricultural Laboratories, NAIROBI.



- GRACIE, J.S.            1930.            "A preliminary Survey of some of the Soil in Kenya" Bull. 1. Dept. of Agric. \*
- PHILIPS, J.            1931            "Ecological Investigations in South, Central and East Africa." J.Ecol. 19, p.2.
- JONES, G.H.G.        1932.            "Some notes on the Soils of the Trans-Nzoia" Bull. 21. Dept. of Agric.
- MILNE, G. et al.     1935.            "A provisional soil map of East Africa." Trans. 3rd. Int. Congr. Soil Sci. 1, p.266. \*
- (transmission)*
- MILNE, G. et al.     1935.            "A short geographical account of the Soils of East Africa." Trans. 3rd. Int. Congr. Soil Sci. 1, p.270.
- MILNE, G.            1935.            "Composite Units for the mapping of Complex soil Associations". Trans. 3rd. Int. Congr. Soil Sci. 1, p.345.
- MILNE, G.            1935            "Some suggested units of classification and mapping, particularly for East African soils". Proc. 2nd. Conf. E. Afric. Agric. Chem. p.48.
- MILNE, G.            1935.            "The extent to which volcanic rocks give rise to distinctive soils, examined from East African occurrences." Proc. 2nd. Conf. E. Afric. Agric. Chem. p.49.
- JONES, G.H.G.        1935.            "Description of 33 soil series occurring in Kenya". Proc. 2nd Conf. E.Afric. Agric. Chem. p.58.
- MILNE, G.            1937.            "Notes on Soil Conditions and some Vegetation Types". (E. Africa). J.Ecol. 25 p.254.
- EDWARDS, D.C.        1939.            "Ecological Survey: Yatta Plains". Dept. of Agric.
- THOMAS, A.S.        1941.            "The Vegetation of the Sese Islands: an Illustration of edaphic factors in tropical ecology." J. Ecol. 29, p.330.
- THOMAS, A.S.        1943.            "The Vegetation of the Karamoja District: An Illustration of biological factors in tropical ecology". J. Ecol. 31, p.149.
- DEPT. OF AGRICULTURE 1945. \* Report on the Soils of Taveta (with Map)
- SOIL CHEMIST.        1946.            Soil Chemist's report on the Soils around Taveta. Dept. of Agric. Annual Rept. 1945. p.81
- THOMAS, A.S.        1946.            "The Vegetation of some Hill-sides in Uganda: Illustrations of human influence in tropical ecology. III J. Ecol. 33, p.153.

- MILNE, G. 1947 "A Soil reconnaissance Journey through parts of Tanganyika." J.Ecol. 35, p. 192
- MORISON, C.G.T., HOYIE A.C. and HOPE-SIMPSON, H.F. 1948 "Tropical Soil/Vegetation Catenas." 36, p.1.
- ZEUNER, F.E. 1949 "Frost Soils on Mt. Kenya, and the relation of frost soils to aeolian deposits." J. Soil Sci. 1, p.20.
- JONES, G.H.G. 1949 "Colonial Soil Types; Systematic soil classification and nomenclature." (Kenya). Com.Bur. Soil Sci. Tech. Comm. 46, p.85.
- SPECIALISTS MEETING 1949 "Report on Discussion on Fertilizer Experiments in East Africa." E. Afri Agric. J. 15, p.61.
- MATHESON, J.K. BOVILL E.M. 1950 "E. African Agriculture." Oxford University Press.
- EDWARDS, D.C. 1951. "Vegetation in relation to Soil and Water Conservation in East Africa." Comm.Bur. Past. and Fd. Crops Full 41, p.28
- PEREIRA, H.C. 1954. "Physical Importance of Forest Cover in the E. African Highlands." E. Afr. Agric. J. 19, p.233.
- DU BOIS, C.G.B., and JEFFERY, P.G. 1955. "The composition and origin of the laterites of the Entebbe peninsular." Colon. Geol. min. Resour. 2, p.387.
- PICHI - SERMOLLI, R.E.G. 1955. "Tropical E.Africa Arid Zone Research: VI. Plant Ecology." U.N.E.S.C.O. (p.302).
- EDWARDS, D.C. 1956. "Ecological Regions of Kenya." Emp. J. of Exp. Agric. 24, p.89.
- STEPHEN, I, BULLIS, e. and MUIR, A. 1956. "Gilgai phenomena in tropical black clays of Kenya". J. Soil Sci. 7, p.1.
- COSTIN, A.B. 1956. "Note on Gilgais and Frost Soils." J. Soil Sci. 7, p.32.
- SIR A. GIBB. 1956. "Kenya Nile Basin; water Resources Survey, 1954 - 1956".
- BIECH, H.F. and FRIEND, M.T. 1956 "The organic matter and nitrogen status of East African Soils". J. Soil Sci. 7, p.156.
- HEMMING, C.F. and TRAPNELL, C.G. 1957. "A reconnaissance classification, of the soils of the S. Turkana Desert." J. Soil Sci. 8, p. 167.
- HUNTING TECHNICAL SERVICES, 1957. "Soil Survey of the Lodwar Flood Irrigation project."
- ANDERSON, B. 1957. "A Survey of Soils in the Kongwa and Nachingwea Districts of Tanganyika". Dept. of Agric. Chem. Univ. of Reading.

- WATTS, D. 1957 "Report on Irrigation Schemes at Taveta. Ministry of Works.
- BOGDAN, A.V. 1958. "Some edaphic vegetation types of Kiboko, Kenya" J. Ecol. 46, p.115.
- WILSON, J.G. 1959 "The Soils of Karamoja District." Uganda Dept. of Agric. Memoirs Res. Div. Ser. 1 No.5.
- LANGDALE - BROWN, I. 1959. "Summary of the soils of Eastern Province." (Uganda). Uganda Dept. of Agric. Memoirs Res. Div. Ser.2 No.1 p.152.
- OLLIER, C.D. HARNOP, J.F. 1959 "The Soils of the Eastern Province of Uganda Dept. of Agric. Memoirs Res. Div. Ser. 1 No.2.
- OLLIER, C.D. 1959 "A Two-Cycle theory of tropical pedology." J. Soil Sci. 10, p.137.
- RADWANSKI, S.A. AND OLLIER, C.D. 1959. "A study of an East African catena." J. Soil Sci. 10, p.149.
- <sup>c</sup> CULLOCH, J.S.G. 1959. "Soil Temperatures near Nairobi 1954-55." Quart. J. roy. met. Soc. 85, p.51.
- BIRCH, W.R. 1959. "High altitude ley agronomy in Kenya. I. Observations on the climate and soil." E.Afric. agr. J. 25, p.35.
- CALTON, W.E. 1959. "Generalisations on some Tanganyika soil data." J. Soil Sci. 10, p.169.
- THORP, J., BELLIS, E., WOODRUFF, G.A. AND MILLER, F.T. 1960. "Soil Survey of the Songhor Area Dept. of Agric.
- THORP, J. and BELLIS, E. 1960. "Soils of the Kenya Highlands in relation to land forms." Trans.7th Int. Congr. Soil Sci. 4, p.329.
- MEHLICH, A. 1960. "Charge Characteristics of Soils." Trans. 7th Int. Congr. Soil Sci. 2, p.292.
- MILLER, F.T. and MIHLICH, A. 1960 "Charge Characterisation as a criterion for classification of some equatorial soils." Trans. 7th Int. Congr, Soil Sci. 4, p. 432.
- HEADY, H.F. 1960 "Range Management in East Africa." Govt. Printer.
- MCCOMAW, J.C. 1960. "The Plant Ecology of the Coast Regions of Kenya". Government Printer.
- THORP, J., BELLIS, E., WOODRUFF, G.A. MILLER, F.T. and COLLIER, F. 1961. "Soil Survey of the E. Knyango Area." Department of Agriculture.
- SIR A. GIBB. 1961. Extension of the Kenya Nile Basin Water Resources Survey."
- PATON, T.R. 1961. "Soil Genesis and Classification in Central Africa." Soil and Fert. 24, p.249.
- MINISTRY OF WORKS 1962. "An Investigation of the Water Resources of the Ewaso Ng'iro Basin; 1958-61."

- Hydraulic Branch Reports 4, and 5.
- WATSON, J.P. 1962. "Leached pallid soils of the African plateau." Soil and Fert. 25, p.1.
- RUSSELL, E.W. 1962. "The Natural Resources of East. Africa." Chapter on soils by SCOTT, R.M. D.A. Hawkins Ltd., E. African Literature Bur. Nairobi.
- MEHLICH, A., BELLIS, E. 1962. and GITAU J.K. "Fertilizing and Liming in Relation to Soil Chemical Properties." Cyclostyled Publication of the National Agricultural Laboratories, Nairobi.
- SCOTT, R.M. 1962. "Summary of Soil Survey observations on the Sambrer Valley." E. Afri. Agric. J., Special issue 27, p.22.
- SCOTT, R.M. and FRIEND, 1962. M.T. "Soil Survey of the Intensively measured Catchments A. B and C." E.Afric. Agric. J. Special Issue 27, p.84
- SCOTT, R.M. 1962. "Soil Survey of the Experimental Valleys." E.Afric. Agric. J. Special Issue 27, p.112.
- SCOTT, R.M. 1963. "The Soils of the Nairobi-Thika-Yatta-Machakos Areas". Govt. Printers, Nairobi.
- PRATT, D.J. 1963. "Reseeding denuded land in Baringo District, Kenya." E.Afr. Agric. J.29, p.78.
- F.A.O. 1964. "Reconnaissance of the Agricultural Potential of the Turkana District." Rome.
- HEDBERG, O. 1964. "Features of Afroalpine Plant Ecology." Uppsala University.
- BELLIS, E. 1964. "Soil Surveys in Kenya." African Soils 2, No.1 p.137.
- PRATT, D.J. 1964 "Bush Control Studies in the drier areas of Kenya 1 Preliminary work with the Holt Machines." Empire J.Exper. Agric. 32, p.18.
- MAKIN, J. AND NYANDAT,N.1964. "The Soils of Kampeza North, Taveta." Govt. Rept.
- F.A.O. 1965. "Survey of the Ir igation Potential of the Lower Tana River Basin". Restricted Govt. Rept. Chaper 3 on the soils.
- MAKIN, J. 1965. "The Natural Vegetation Between the Rivers Galole and Gelmat." Govt. Rept. for F.A.O.
- MAKIN, J. and NYANDAT, 1965, N.N. The Agricultural Potential of the Lambwe Valley." Govt. Rept.
- VISSER, S.A., THEISEN, 1965. A.A. and MEHLICH, A. "Long-term influence of decomposing organic matter on various clay minerals." Soil Sci.100, p.232.

- SWIFT, A, and HAGEM  
KAARE 1966 "A Review of Past Fertilizer Trials and  
recommendations for different crops in  
Kenya." **FAO ROME**
- MAKIN, J. and D'COSTA, 1966. "The soils of the country around Mumias."  
V. Restricted Govt. Rept.
- MAKIN, J. and D'COSTA, 1966. "Soils of the Nyando Pilot Irrigation Scheme."  
V. Govt. Rept.
- MAKIN, J. and D'COSTA, 1966. "Soils of the Nzoia Pilot Irrigation Scheme".  
V. Govt. Rept.
- LEHRER, P.L. 1966. "The Effect of parent materials and cultiva-  
tions on the nutrient levels of Kenya soils.  
E. Afr. Agric. J. 32, No.1 p.31.
- THEISEN, A.A. 1966. "The Mineralogy of Central Province soils in  
relation to parent material."  
Unpublished material used in a Doctor's thesis.  
GUISSEN UNIVERSITY.
- MEHLICH, A. and THEISEN 1966. "Single point charge characteristics I. In  
A.A. relation to crystalline and Amorphous soil  
constituents."  
Cyclostyed paper of the National Laboratories.
- MEHLICH, A. and 1966. "Single point charge characteristics: II.  
THEISEN, A.A. In relation to soil Fertility." Cyclostyled  
paper of the National Laboratories.
- MAKIN, J. 1966. "Notes on some ecological relationships in the  
Ewaso Ngiro Game Researve."  
Unpublished.
- MAKIN, J. and D'COSTA, 1966. "Samia Soil Survey."  
V. Govt. Rept.
- NAVEH, Z. 1966. The determination of Range Condition and  
Trend on East African Range Lands". E.  
E.Afr. Agric. J. 32 p.159.
- MAKIN, J. and D'COSTA, 1967. "The Soils of Nwea Extension, Karaba."  
V. Govt. Rept.
- PINKERTON, A. 1967. "Copper deficiency of wheat in the Rift  
Valley, Kenya."  
J. Soil Sci. 18, p.18.
- ROBINSON, J.B.D. 1967. "Soil particle size fraction and nitrogen  
mineralization.  
J. Soil Sci. 18, p.109.
- MAKIN, J. and D'COSTA, 1967. "The Soils and ground waters of the Lower  
V. Farm, Naivasha."  
Govt. Rept.
- V  
VAN WAMBEKE, A. 1967. "Recent development in the classification  
of the soils of the tropics."  
Soil Sci. 104, p. 309.
- MAKIN, J. 1968. The role of Soil Investigation in Agricultural  
Development".  
African Soils 13 p.121.
- NYANDAT, N.N. 1968. "A Guide to Field Soil Description for  
Agronomic Experiments and Soil Delineation  
purposes." Government Publication.

- NYANDAT, N.N. 1968 "The Art of Irrigation."  
The Kenya Farmer Vol. No.146, October, p.5.
- NYANDAT, N.N. 1968. "Choosing the right irrigation system."  
The Kenya Farmer, Vol. No.147, November, p.25.
- MAKIN, J. 1968. "The soils in the country around Shimba Hills  
Settlement, Kikoeni, and Jombo Mountain."  
Govt. Rept.
- NYANDAT, N.N. AND  
D'COSTA, V. 1968. "Soils of Thika Horticulture Station."  
Govt. Rept.
- D'COSTA, V. and  
NYANDAT, N.N. 1968. "Soils of the University College, Nairobi,  
Farm."  
Government Rept.
- NYANDAT, N.N. 1968. "Soils of Wamumu Cotton Scheme".  
Govt. Rept.
- NYANDAT, N.N. and  
D'COSTA, V. 1968. "Soils of the Kibos Sugar Research Station".  
Govt. Rept.
- NYANDAT, N.N. 1968. "Major Soil distribution in Kenya".  
Govt. Publication.
- THEISEN, A.A. AND  
PINKERTON, A. 1968 "Volume reduction technique for the X-Ray  
spectrographic determination of micronutrients  
in plant tissues".  
J. Sci. Ed. Agr. 19 p.5
- ibid - 1968. "Molybdenum in plant tissues analysis by an  
X-ray spectrographic volume dilution technique."  
Soil Sci. Soc. Amer. Proc. 32 p.440.
- ROBINSON, J.B.D. and  
SEMB, G. 1968. Advisory Soil or Plant analysis and Fertilizer  
use. I - Comparison of Soil analysis methods".  
E.Afr. Agric. J. 34 p.117.
- ibid - 1968. II - "Evaluation of Soil analysis methods with  
maize yield data". Ibid 34 p.140.
- MAKIN, J. 1969. " A Feature Card system for data retrieval and  
its application to Soil research".  
E. Afr. Agric. J. 34 p.418.
- ibid - 1969. "The use of identification Keys in distinguish-  
ing individual soil categories".  
Ibid. 34 p.446.
- ibid - 1969. "A soil catena and associated laterite levels  
in Western Kenya".  
Ibid. 34 p.485.
- ibid - 1969. "Soil formation in the Turkana Desert."  
Ibid. 34 p. 493.
- MAKIN, J., SCHILSTRA, J. 1969. "The Nature and Genesis of certain Aridisols  
AND THEISEN, A.A. in Kenya".  
J. Soil Sci. 20 p. 111.
- NYANDAT, N.N. 1969 "Irrigation potential of the soils bordering  
the Yatta furrow in the region between  
Kithimani and the furrow outlet".  
Govt. Rept.

- NYANDAT, N.N. 1969 A Guide to trainees in Soil Survey. Govt. Publication
- ibid - 1969 The Development of arable settlement scheme on soils bordering Lake Mkunguya and Mapenya (Lamu District) and stretching to the East.
- SEMB, G. and ROBINSON, J.B.D. 1969 The Natural nitrogen flush in different arable soils and climates in East Africa. E. Afr. Agric. J. 34 p 350.
- GITAU, J.K. 1969 Nitrogen determination in Soil and Plants. Printed Pamphlet of National Agricultural Laboratories.
- UNDP/FAO 1969 Vegetation-Land use survey of Lamu District for Range management project. UNDP/FAO Rept., Nairobi.
- GATHECHA, T.W. 1970 The maintenance and improvement of soil fertility under arable crops and grass leys in the first and second rotation cycle of a fertilizer trial at Embu. E. Afr. Agric. J. 35 p 246
- GITAU, J.K. 1970 Notes on the problems of the Bracken Zone soils of Central Kenya. Cyclostyled paper of National Agric. Labs.
- ibid - 1970 Crop responses to fertilizer and manures with special reference to Kenya soils. Cyclostyled paper of National Agr. Labs.
- ibid - 1970 Proceedings of the seminar on manures and fertilizer use. Cyclostyled publication of National Agric. Labs.
- OGOT, P.O. 1970 Evaluation of phosphorus soil test methods by green house studies and Laboratory tests. E. Afr. Agric. J. 35 p 336.
- NJIHIA, C.M. 1970 A review of some major irrigation schemes in Kenya. Cyclostyled publication of National Agric. Labs.
- PINKERTON, A. THEISEN, A.A. and TUBB, D.J. 1970 Comparison of X-ray spectrochemical and chemical analyses for micronutrients in plant tissues. E. Afr. Agric. J. 35 p. 231.
- NYANDAT, N.N. 1970 Detailed survey of the soils of the Salim Road Investment Scheme, Kwale District. Govt. Rept.
- NYANDAT, N.N. and OSWAGGO, O. 1970 The soils of Ishiara Irrigation Scheme, Embu District. Govt. Rept.
- ibid - 1970 A semi-detailed survey of the soils of Ramisi Sugar Estates. Govt. Rept.
- ibid - 1970 The soils of Turbo Afforestation Scheme Govt. Rept.



- NYANDAT, N.N. and  
MICHIEKA, D.O. 1970 Soils of Kirima Kimwe Faculty of  
Agriculture Farm. Govt. Rept.
- GARBERG, P.K. 1970 Soil silica and phosphorus response  
by maize in acid East African  
soils. E. Afr. Agric. J. 35 p 396.
- WOODHEAD, T. and  
WAWERU, E.S. 1970 Variability of potential evaporation  
in East Africa. Exptal Agric.  
6 p 51.
- WOODHEAD, T. 1970 A classification of East African  
range land. II. The water balance  
as a guide to site potential.  
J. Applied Ecol. 7 p 647.
- UNDP/FAO 1970 Vegetation and land survey in  
Samburu District for Range  
Management Project. UNDP/FAO Rept.  
Range Management Div., Nairobi
- OSWAGGO, O. 1970 Soils of Kaputir Agricultural  
Development Scheme, Turkana  
District. Govt. Rept.
- MICHIEKA, D.O. and  
OSWAGGO, O. 1970 Soils of Mwea Tebere Cotton  
Research Station. Govt. Rept.
- D' COSTA, V. 1970 A semi-detailed survey of the soils  
of the Kano Plains. University  
Rept.
- MAKIN, J. 1970 Some observations on Coastal soils.  
E. Afr. Agric. J. 36 p 124.
- SEITZER, J.F., BUTT,  
M.J. and MULAMULA, H.A. 1970 Fertilizer response to wheat in  
Kenya. E. Afr. Agric. J. 36 p 131.
- HINGA, G., NJIHIA, C.M.,  
and OSWAGGO, O. 1971 A preliminary investigation of some  
soils of the Uasin Gishu Wheat  
Belt. Cyclostyled Rept. of  
National Agric. Labs.
- OSWAGGO, O. 1971 Soils of Tigoni Potato Research  
Station. Govt. Rept.
- OSWAGGO, O. and  
MICHIEKA, D.O. 1971 Soils of the Naivasha Animal  
Husbandry Research Station, Upper  
Farm. Govt. Rept.
- NYANDAT, N.N. 1971 A Reconnaissance investigation of  
arable land in parts of Makueni,  
Nzawi and Mbitini Locations of  
Machakos District. Govt. Rept.
- BAARS PUL, J.A. 1971 The Tana Irrigation Scheme.  
Netherlands J. Agric. Sci. 19 p. 76.

- MICHIEKA, D.O. and OSWAGGO, O.      1971      Soils of the National  
Agricultural Research  
Station, Kitale. Govt.  
Rept.
- NYANDAT, N.N.      1971      Characterization of soils  
at fertilizer demonstration  
and experiment sites.  
Govt. Publication.
- ibid -      1971      Gypsum as improver of the  
permeability of a  
grumusol (Typic Pellustert)  
in the Kano Plains of  
Kenya. In press- E. Afr.  
Agric. J.

Scanned from original by ISRIC – World Soil Information, as ICSU World Data Centre for Soils. The purpose is to make a safe depository for endangered documents and to make the accrued information available for consultation, following Fair Use Guidelines. Every effort is taken to respect Copyright of the materials within the archives where the identification of the Copyright holder is clear and, where feasible, to contact the originators. For questions please contact [soil.isric@wur.nl](mailto:soil.isric@wur.nl) indicating the item reference number concerned.