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Vol. 4: Tropics in General and Islands of the Pacific and Indian Oceans

by

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BIBLIOGRAPHY OF SOILS OF THE TROPICS

Vol. 4: Tropics in General and Islands of the Pacific and Indian Oceans

by

Arnold C. Orvedal*

Items in this bibliography of soils of the Tropics were extracted from the collection of bibliographic cards on file at the Soil Classification and Mapping Branch, Soil Survey Classification and Correlation Division, Soil Conservation Service supplemented by searching at the National Agricultural Library, both of the U. S. Department of Agriculture.

The purpose of this bibliography is to make relevant contents of this file readily available to university researchers and others who may find the information useful.

Collection** of citations has been under way since 1945. These citations are mainly about soils outside the United States and, collectively, they contribute to knowledge about the geography of soils. Not only citations to soil maps are included in the collection but also thousands of references, which, even though without maps, contribute to an understanding of soils--their distribution, characteristics, classification, environment and use. Because of the interest in soil environment and use, the collection includes some citations to references on geology, geomorphology, landforms, vegetation, climate and land use that contribute to the knowledge about soils of an area and aid in the prediction of kinds of soils, or at least some of their characteristics, where soil maps based on field work are lacking.

Because of the unique interest of the staff collecting and using geographic information about soils, the collection is short on references that do not contribute, either directly or by inference, to geographic information about soils. Hence, citations about fertilizer technology, soil chemistry, soil physics, soil microbiology, etc. generally are not included unless also they have some relevance to soil geography.

This bibliography, therefore, does not cover equally all aspects of soil science. Neither, as the following paragraph explains, is it necessarily exhaustive for soil geography of all areas. Users are invited to submit additions and corrections (see "tear-out" sheets).

The collection of citations has been secondary to the primary missions of the staff using geographic information about soils. Attempts were made consistently to take full advantage of every opportunity to add citations to the bibliographic file, but due to duress of time or other constraints, some have been missed. Many citations were recorded as they were found under "literature cited" for articles, in bibliographies, reviews and other sources. Completeness and format of source citations varied, and some errors in dates or spelling may have been introduced inadvertently.

The citations have been put into a uniform format although a few are not complete. There is a degree of inconsistency in the handling of citations to non-English references. In some citations to such

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*Soil scientist. Retired from Soil Conservation Service.
**Collecting was done for many years by the Soil Geography Unit, the staff and functions of which in a 1976 reorganization were incorporated into the new Soil Classification and Mapping Branch. Until 1952, the Unit was in the Division of Soil Survey, Bureau of Plant Industry, Soils and Agricultural Engineering, and, until 1970, was called the World Soil Geography Unit.

references, titles are translated; in others, not. Similarly, but less commonly, in some citations the name of the journal or corporate author is translated into English and in others not. If the file card indicated a non-English language for a reference with a title translated into English, this fact is indicated in the bibliography by annotation. Such information is lacking for some citations, although the reader usually can make a reasonably accurate guess about the language in which the reference is written.

Diacritical marks are omitted from titles in Spanish and other non-English languages.

Organization of the Bibliography

This is the fourth of several volumes planned. Each will contain, as its first part, those citations relevant to the Tropics in general without orientation to any single continent or country. The second part will pertain to tropical parts of continents, or to large island groups, and to countries or other geographic entities within these large regions.

Organization of the citations is indicated under CONTENTS. Under a geographic heading the citations are grouped according to texts or maps to the extent such groupings are practical. As many text references contain maps and many map references contain some text material, the groupings seldom are clean cut. Arrangement within groups is alphabetic by author.

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Nuttonson, M. Y. 1962. Australia-Negev climatic analogues and supplementary Australian data. Am. Inst. Crop Ecol. (Washington). 93 p.

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Russell, J. S., and A. W. Moore. 1972. Some parameters of gilgai microrelief. Soil Sci. (Baltimore) 114(2): 82-87.

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Sanchez, Pedro A., and Ray F. Isbell. 1978. A comparison of the soils of tropical Latin America and tropical Australia. 50 p. (Typewritten).
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Contains in pocket a map of "Land Units ..." (4 sheets, scale 1:20,000).

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Chippendale, G. M. 1963. Ecological notes on the "western desert" area of the Northern Territory. Linnean Soc. New South Wales, Proc. 88: 54-66.
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Christian, C. S. 1965. Land usage and agricultural development in Northern Australia. Australian Territ. (Canberra) 5(2): 2-16.

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Fogarty, P. J., and C. R. Gibbs. 1976. Report on the land units of the Daly River agricultural area. (Australia) Dep. Northern Territ., Animal Ind. Agric. Branch (Darwin) Tech. Bull. No. 23. 118 p.
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Litchfield, W. H. 1952. Soil surveys in the Katherine District, Northern Territory: A, Katherine Research Station, "Levee Farm": B, Katherine Research Station, "Four Mile Farm": C, Department of Territories demonstration farm area. (Australia) Commonw. Sci. Ind. Res. Organ., Div. Soils Div. Rep. 7/52. 52 p.
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Litchfield, W. H. 1969. Soil surfaces and sedimentary history near the Macdonnel Ranges, N. T. (Australia) Commonw. Sci. Ind. Res. Organ. Soil Publ. 25. 45 p.
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Contains in pocket a map, scale 1:2,000,000 of "Pasture Lands ...".

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Chapter on soils by W. H. Litchfield. Accompanied by a portfolio of the following maps: "Land Systems of the Alice Springs Area", scale 1: 1,000,000; "Pasture Lands ...", 1:1,000,000; Geology ...", 1:1,000,000; and "Ground-water Provinces and Piezometric Form-lines ...", 1: 1,550,000.

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Contains a fold-in soil association map, scale 1:500,000.

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Story, R., et al. 1969. Lands of the Adelaide-Alligator area, Northern Territory. (Australia) Commonw. Sci. Ind. Res. Organ. Land Res. Ser. No. 25. 154 p.
Chapter on soils is by A. D. L. Hooper. Issued in portfolio with a "Land Systems" map, scale 1:250,000, and the following maps at scale 1: 500,000: "Soils, Geomorphology, Vegetation", and "Pasture Lands".

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Aitchison, G. D., and K. Grant. 1967. The P. U. C. E. (Pattern-Unit-Component-Evaluation) programme of terrain description, evaluation and interpretation for engineering purposes. 4th Reg. Conf. for Africa on Soil Mechanics and Foundation Eng. (Cape Town, South Africa, 1967) Proc. p. 1-8.
Contains a fold-in map "Terrain Patterns, Mackunda, Queensland", scale 1:250,000.

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Accompanied by a soil map, a soil association map and a soil erosion map, all at a large scale.

Beckmann, G. G. 1956. Soil survey of portion of the Irongate district, Darling Downs, Queensland, Australia. (Australia) Commonw. Sci. Ind. Res. Organ., Div. Soils Div. Rep. 4/56. 11 p.
Accompanied by a large-scale soil map.

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Accompanied by a large-scale soil map.

Beckmann, G. G. 1967. Soils and land use in the Beenleigh-Brisbane area, south-eastern Queensland. (Australia) Sci. Ind. Res. Organ., Div. Soils, Soils and Land Use Ser. No. 50. 59 p.
Contains in pocket a soil association map, scale 1:100,000.

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Contains a small map of gilgai in Queensland.

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Brewer, R. 1977. Microscopy of a brown soil on basalt from Lyndhurst, Queensland. (Australia) Commonw. Sci. Ind. Res. Organ., Div. Soil Div. Rep. 23/77 7 p.

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Brunnich, J. C., and G. R. Patten. 1912. Soils of the Stanthorpe district. Queensland Agric. J. 29: 499-502.
Contains a page-size map and 3 fold-in tables.

Brunnich, J. C. 1910. The soils of Upper Burnett. Queensland Agric. J. 25: 248 (plus fold-in table and fold-in map).

Bruce, R. C., and I. J. Bruce. 1972. The correlation of soil phosphorus analysis with response of tropical pastures to superphosphate on some north Queensland soils. Australian J. Exp. Agric. Anim. Husb. (Melbourne) 12: 188-194.

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Contains in pocket the following maps, scale about 1:1,000,000: "Land Systems of the Barkly Region, Land-use Groups, Geomorphological Units", and "Land Traverse Map".

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Chapter on soils is by Stewart. Contains in pocket the following maps, scale 1:253,440: "Land Systems ..., Land-use Groups ...", and "Reconnaissance Geological Map ...".

Coaldrake, J. E. 1960. The coastal sand dunes of southern Queensland. Proc. Royal Soc. Queensland 72: 101-115.
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Coaldrake, J. E. 1961. Ecosystem of the coastal lowlands ("Wallum") of southern Queensland. (Australia) Commonw. Sci. Ind. Res. Organ. Bull. 238. 138 p.
Text contains 13 page-size "Sample" maps, scale 1:65,000, of kinds of landscapes. In pocket there is "Map of Coastal Lowlands (Wallum) of Southern Queensland showing landscapes, ... and Rainfall", scale 1:500,000.

Coaldrake, J. E., and K. P. Haydock. 1958. Soil phosphate and vegetal pattern in some natural communities in southeastern Queensland, Australia. Ecol. (Ecol. Soc. Am.) 39(1): 1-5.

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Crack, B. J. 1972. Changes in soil nitrogen following different establishment procedures for Townsville stylo on a solodic soil in north-eastern Queensland. Australian J. Exp. Agric. Anim. Husb. (Melbourne) 12: 274-280.

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Contains a page-size map of major soil groups.

Driscoll, E. M., and D. Hopley. 1968. Coastal development in a part of tropical Queensland, Australia. J. Trop. Geogr. (Malaya/Singapore) 26: 17-28.
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Farmer, Joan, S. L. Everist, and G. R. Moule. 1947. Studies in the environment of Queensland: 1, The climatology of semi-arid pastoral areas. Queensland J. Agric. Sci. 4: 21-59.
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Galloway, R. W., R. H. Gunn, L. Pedley, K. D. Cocks, and J. D. Kalmia. 1974. Lands of the Balonne-Maranoa area, Queensland. (Australia) Commonw. Sci. Ind. Res. Organ. Land Res. Ser. No. 34. 242 p.
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Gilmour, D. A., and J. J. Reilly. 1970. Productivity survey of the Atherton Tableland and suggested land use changes. J. Australian Inst. Agric. Sci. 36: 259-272.
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Grant, K. 1965. Terrain features of the Mt. Isa-Dajarra region (in northwest Queensland) and an assessment of their significance in relation to potential engineering land use. (Australia) Commonw. Sci. Ind. Res. Organ., Soil Mechanics Section Tech. Pap. No. 1. 101 p.
Contains folded maps "Engineering Significance of Terrain Features ...", 2 sheets, scale 1:100,000.

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Accompanied by a portfolio of "Terrain Patterns" maps, scale 1:250,000, for Burketown, Donors Hill, Mackunda, and Brighton Downs.

Green, P. 1966. Mineralogical and weathering study of a red-brown earth formed on granodiorite. Australian J. Soil Res. 4: 181-197.
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Grof, B., J. Courtice, and D. G. Cameron. 1970. Effect of renovation and nitrogen fertilization on an old stand of buffel grass (Cenchrus ciliaris) in subcoastal central Queensland. Queensland J. Agric. Anim. Sci. 26: 359-364.

Gunn, R. H. 1967. A soil catena on denuded laterite in Queensland. Australian J. Soil Res. 5: 117-132.
Contains a page-size map.

Gunn, R. H. 1974. A soil catena on weathered basalt in Queensland. Australian J. Soil Res. 12: 1-14.
Contains a map, 2/3-page size, showing occurrence of basalt landscapes in Central Highlands region.

Gunn, R. H., and H. A. Nix. 1977. Land units of the Fitzroy region, Queensland. (Australia) Commonw. Sci. Ind. Res. Organ. Land Res. Ser. No. 39 228 p.
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Hirschfeld, E., and R. A. Hirschfeld. 1937. Soil problems of the brigalow and belah country. Queensland Agric. J. 47: 586-599.

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Contains in pocket a soil association map and a vegetation map, both at scale 1:365,000, of "... Portion of South-western Queensland".

Hopley, David. 1970. The geomorphology of the Burdekin Delta, north Queensland. James Cook Univ. of North Queensland, Dep. Geogr. (Townsville) Monogr. Ser. No. 1. 66 p.
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Hubble, G. D. 1954. Some soils of the coastal lowlands of Brisbane, Queensland. (Australia) Commonw. Sci. Ind. Res. Organ., Div. Soil Div. Rep. 1/54. 27 p.

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Contains a fold-in soil association map, scale 1:190,080.

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Covers 5 properties, ranging from 187 to 2,043 square miles in size. Accompanied by soil maps, scale 1:250,000, for the following estates: Kamileroi, Dalgonally, Millungera, Canobie and Granada.

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Contains a fold-in soil association map, scale 1:65,000.

Isbell, R. F., and G. McL. Smith. 1976. Some properties of red, yellow and grey massive earths in north Queensland. (Australia) Commonw. Sci. Ind. Res. Organ., Div. Soils Tech. Pap. 30. 52 p.
Includes classification of soils according to (U. S.) "Soil Taxonomy" and according to the "FAO" system.

Isbell, R. F., and G. P. Gillman. 1973. Studies on some deep sandy soils in Cape York Peninsula, north Queensland: 1, Morphological and chemical characteristics; 2, Plant nutrient status. Australian J. Exp. Agric. Anim. Husbandry 13(60): 81-88, 89-97.
Contains a small map showing distribution of large areas of sand and sampling sites.

Isbell, R. F., and J. B. F. Field. 1977. A comparison of some red and yellow earths in tropical Queensland and northeast Brazil. Geoderma (Amsterdam) 18(3): 155-176.

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Contains a small map showing general locations of basaltic soils.

Isbell, R. F., P. J. Stephenson, G. G. Murtha, and C. P. Gillman. 1976. Red basaltic soils in north Queensland: 1, Environment, morphology, particle size characteristics and clay mineralogy: 2, Chemistry. (Australia) Commonw. Sci. Ind. Res. Organ., Div. Soils Tech. Pap. No. 28. ? p.

Jackson, E. A. 1957. The soils of native settlements in central Australia. (Australia) Commonw. Sci. Ind. Res. Organ., Div. Soils Div. Rep. 4/57. 18 p.
About 6 areas 8 to 185 miles from Alice Springs.

Jones, R. M. 1970. Sulfur deficiency of dryland lucerne in the eastern Darling Downs of Queensland. Australian J. Exp. Agric. Anim. Husbandry (Melbourne) 10(49): 749-754.

Kerridge, P. C., C. S. Andrew, and G. G. Murtha. 1972. Plant nutrient status of soils of the Atherton Tableland, north Queensland. Australian J. Exp. Agric. Anim. Husb. (Melbourne) 12: 618-627.
Contains a small soil map, 1/4-page size.

King, Norman J. 1940. Soils investigation in the sugar-cane producing areas of Bundaberg. Queensland J. Agric. Sci. 6: [illegible]-176.
Contains a fold-in "Soil Map of the Bundaberg Sugar Cane Producing Areas Showing ... and Soil Boundaries", scale 1:63,360.

Little, I. P., and R. F. Isbell. 1965. Laboratory data for soils from the Collinsville district, north Queensland. (Australia) Commonw. Sci. Ind. Res. Organ., Div. Soils Div. Rep. 8/64. 48 p.

Little, I. P., K. P. Haydock, and R. Reeve. 1962. The correlation of Walkley-Black organic carbon with the value obtained to total combustion of Queensland soils. (Australia) Commonw. Sci. Ind. Res. Organ., Div. Soils Div. Rep. 3/62. 8 p.

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McDonald, R. C. 1969. Evaluation of soils for irrigation, Ngoa River, Emerald, Queensland. (Queensland) Dep. Primary Ind., Agric. Chem. Lab. Branch. 33 p.
Contains a fold-in map containing soils information, scale 1:125,000.

McDonald, R. C. 1975. Soil survey in land evaluation. (Queensland) Dep. Primary Ind., Agric. Chem. Branch Tech. Rep. No. 6. 47 p.

Moody, C. J. de, G. D. Hubble, and G. G. Beckmann. 1977. The soils of the central Burnett area, Queensland. (Australia) Commonw. Sci. Ind. Res. Organ. Soils and Land Use Ser. No. 56. 91 p.
Contains in pocket a soil association map (2 sheets) scale 1:100,000.

Morris, P. O. 1964. Moisture movement under roads in a black soil area of western Queensland. Australian Road Res. 2(1): 37-45.

Muir, C. 1958. Black earths of the Darling Downs. J. Australian Inst. Agric. Sci. 24: 67-68.

Murtha, G. G. 1975. Soils and land use on the northern section of the Townsville coastal plain, north Queensland. (Australia) Commonw. Sci. Ind. Res. Organ. Soils and Land Use Ser. No. 55. 65 p.
Contains in pocket a soil association map and a land capability map, both scale 1:100,000.

Murtha, G. G. 1977. The soils on three major rock types in the upper Brisbane valley, southeastern Queensland. (Australia) Commonw. Sci. Ind. Res. Organ., Div. Soils Div. Rep. 17/77. 26 p.

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Murtha, G. G. and R. Reid. 1976. Soils of the Townsville area in relation to urban development. (Australia) Commonw. Sci. Ind. Res. Organ., Div. Soils Div. Rep. 11/76. 17 p.
Contains in pocket a soil map, 3 sheets, scale 1:100,000.

Oertel, A. C., and J. B. Giles. 1959. Trace element profiles of some Queensland soils. (Australia) Commonw. Sci. Ind. Res. Organ., Div. Soils Div. Rep. 8/58. 28 p.

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Brigalow soils are in Queensland and New South Wales.

Paton, T. R. 1965. The valley fills of southeastern Queensland. Australian J. Sci. 28(3): 129-131.

Paton, T. R. 1971. A reconnaissance survey of soils in Boonah-Beaudesert district, Queensland. (Australia) Commonw. Sci. Ind. Res. Organ. Soils and Land Use Ser. No. 53. 47 p.
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Pedley, L., and R. F. Isbell. 1971. Plant communities of Cape York Penninsula. Proc. Royal Soc. Queensland 82(5): 51-74.
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Chapter on soils by J. R. Sleeman. Issued in portfolio with a map of "Land Systems", scale 1: 1,000,000 with inset maps, scale about 1:3,400,000, of soils, vegetation, geology, and geomorphic units.

Plummer, Brian, and I. Douglas. 1975. Soil and landform relationships in the St. George and Goonfiwindi districts of Queensland, with special reference to gilgai soils. In Douglas, I., et al (ed). Geographical essays in honor of Gilbert Butland. p. 85-115. Univ. New England Press. 213 p.

Prebble, R. E., and G. B. Stirk. 1961. Some physical measurements on selected soils from the Tobacco Research Institute, Mareeba, north Queensland. (Australia) Commonw. Sci. Ind. Res. Organ., Div Soils Div. Rep. 3/61. 8 p.

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Probert, M. E. 1977. The distribution of sulphur and carbon-nitrogen-sulphur relations in some Queensland soils. (Australia) Commonw. Sci. Ind. Res. Organ., Soils Div. Tech. Pap. 31. 20 p.

(Queensland) Bureau of Investigation. 1948. Fourth annual report. 15 p.
Contains fold-in "Tentative Soil and Land Use Map (of) Rockhampton Area", scale 1:100,000; "Comet River Basin (soil map)", 1:750,000; and "Peak Downs", 1:63,360.

(Queensland) Bureau of Investigation. 1951. Seventh annual report of the Bureau of Investigation, for the year 1950. 54 p.
Contains fold-in "Soil Map: Mareeba-Dimbulah-South Edge" and "Tentative Soil Map--Mt. Garnet Area", both at scale 1:126,700.

(Queensland) Bureau of Investigation. 1952. Eight annual report of the Bureau of Investigation, for the year 1957. 63 p.
Contains fold-in "Tentative Soil Map--Darling Downs" and "Darling Downs--Map Showing Land Use", both at scale 1:253,440.

(Queensland) Bureau of Investigation. 1953. Tenth annual report of the Bureau of Investigation, for the year 1953. 36 p.
Contains the following fold-in maps, all at scale 1:253,440: "Tentative Soil Map--Callide Valley, Donald and Dee Basins; Map Showing Land Use ..." for the same area;"Nebo-Collinsville Region: Reconnaissance Soil and Land Classification Map" and "Nebo-Collinsville Region: Reconnaissance Geological Map".

(Queensland) Bureau of Investigation. 1956. Twelfth annual report of the Bureau of Investigation, for the year 1955. 34 p.
Contains a fold-in "Soil Association Map of the Inglewood-Talwood-Glenmorgan-Tara Region", scale 1:253,440.

(Queensland) Bureau of Investigation. 1957. Thirteenth annual report, for the year 1956. 19 p.
Contains a fold-in "Soil Association Map, Dawson Valley Region", scale 1:253,440.

(Queensland) Geological Survey, and University of Queensland. 1953. Geological map of Queensland (scale 1:2,534,000).

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Ratcliffe, F. N. 1937. Further observations on soil erosion and sand drift, with special reference to south western Queensland. (Australia) Counc. Sci. Ind. Res. Pamphlet 70. 32 p.

Rees, M. D. 1972. Plant nutrient status of a prairie soil under scrub and forest vegetation in south-eastern Queensland. Trop. Grasslands (Brisbane) 6(3): 205-212.

Reeve, R., C. H. Thompson, and G. G. Beckmann. 1960. The laboratory examination of soils from the Toowoomba and Kurrawa areas, Darling Downs. (Australia) Commonw. Sci. Ind. Res. Organ., Div. Soils Div. Rep. 1/60. 87 p.

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Reeve, R., R. F. Isbell, and G. D. Hubble. 1963. Soil and climatic data for the brigalow (Acacia harpophylla) lands, eastern Australia. (Australia) Commonw. Sci. Ind. Res. Organ., Div. Soils Div. Rep. 7/61. 67 p.

Russell, J. S. 1966. Plant growth on a low calcium status solodic soil in a subtropical environment: 1, Legume species, calcium carbonate, zinc and other minor element interactions. Australian J. Agric. Res. (Melbourne) 17: 673-686.

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Seton, D. H. C., and J. B. Greenaway. 1969. Rice growing in Burdekin. Queensland Agric. J. 95: 430-440.

Simonett, D. S. 1957. Observations on laterite and other ironstone soils in north Queensland. J. and Proc. Royal Soc. New South Wales 91: 23-35.
Contains a page-size map, scale 1:3,125,000, of "Laterite and other Ironstone Soils of the Lower Cape York Peninsula".

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Swartz, G. L. 1966. Modification of the cracking pattern on a black earth of the Darling Downs, Queensland. Queensland J. Agric. Anim. Sci. 23(2): 279-285.

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Contains a fold-in soil map.

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Soil map made at scale of 1:31,680.

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Contains a fold-in soil map, scale 1:100,000.

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Accompanied by a soil map, scale 1:63,360.

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Mulcahy, M. J., and F. J. Hingston. 1961. The development and distribution of the soils of the York-Quairading area, Western Australia, in relation to landscape evolution. (Australia) Commonw. Sci. Ind. Res. Organ. Soil Publ. No. 17. 43 p.
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Accompanied by a large-scale soil map.

Pym, L. W. 1955. Soils of the Swan Valley vineyard area, Western Australia. (Australia) Commonw. Sci. Ind Res. Organ. Soils and Land Use Ser. No. 15. 49 p.
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Contains a fold-in soil map of "Blackwood River Area, Part Land Districts of Sussex and Nelson, South West Division of Western Australia", scale 1:32,500. Also contains several page-size maps, including a soil association map, scale 1:380,000.

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Accompanied by a soil association map of southern part of the plain, scale 1:375,000. Superseded by Commonw. Sci. Ind. Res. Organ. Soil and Land Use Ser. No. 35, 1960, by Bettenay, McArthur and Hingston.

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Accompanied by a large-scale soil map.

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Chapter on soils by G. K. Rutherford. Issued in portfolio with a large sheet containing the following maps: "Land Systems", scale 1:1,000,000; "Pasture Lands", 1:1,000,000; "Geomorphic Regions and Generalized Geology", 1:2,000,000; "Soils", 1:2,000,000; and "Rainfall", 1:3,200,000.

Speck, N. H., Janice Bradley, M. Lazarides, R. A. Patterson, R. O. Slayter, G. A. Stewart, and C. R. Twidale. 1960. The lands and pastoral resources of the North Kimberley area, W. A. (Australia) Commonw. Sci. Ind. Res. Organ. Land Res. Ser. No. 4. 117 p.
Chapter on soils by N. H. Speck. Contains in pocket a "Land Systems" map, scale 1:1,000,000 and a geology map, 1:1,000,000.

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Haantjens, H. A., et al. 1970. Lands of the Goroka-Mount Hagen area, Territory of Papua and New Guinea. (Australia) Commonw. Sci. Ind. Res. Organ. Land Res. Ser. No. 27. 159 p.
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Haantjens, H. A., et al. 1972. Lands of the Aitape-Ambunti area, Papua New Guinea. (Australia) Commonw. Sci. Ind. Res. Organ. Land Res. Ser. No. 30. 343 p.
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Haantjens, H. A., E. Reiner, R. G. Robbins, and J. C. Saunders. 1959. Lands of the lower Ramu-Atitau, New Guinea. (Australia) Commonw. Sci. Ind. Res. Organ. Div. Land Res. Reg. Surv. (Canberra) Div. Rep. No. 59/1 (mimeographed). 186 p. (plus 5 p. of photographs (10) and 26 page-size tabular descriptions of land systems).
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Haantjens, H. A., J. A. Mabbutt, and R. Pullen. 1965. Anthropogenic grasslands in the Sepik plains, New Guinea. Pacific Viewpoint (Wellington, New Zealand) 6(2): 215-219.

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403-A is "General Geology", 104 p.; 403-B, "Marine Geology ...", 76 p.; 403-C, "Petrology of Volcanic Rocks ...", 52 p. (and 21 plates); 403-E, "Tertiary Larger Foraminifera ...", 28 p.; 403-F, "Mineralogy of Selected Soils ...", 49 p.; 403-G, "Fossil and Recent Calcareous Algai ...", 40 p.; 403-H, "Hydrology ...", 28 p.; 403-I, "Smaller Foraminifera". 141 p. Pap. 403-F is by Dorothy Carroll, John C. Hathaway, and Carl H. Stensland, and it contains several maps in pocket, including geologic and water supply maps, both at scale 1:50,000.

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Stoddart, D. R. 1969. Reconnaissance geomorphology of Rangiroa Atoll, Tuamotu Archipelago. Atoll Res. (NAC-NRC) Bull. No. 125. 68 p.

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United States Army Japan with personnel of the United States Geological Survey. 1957. Military geology of Okinawa-Jima, Ryukyu-Retto: Volume 1, Soils. 56 p.
Report authored by Carl H. Stensland; other participants in the soil survey are Roy W. Simonson, E. H. Templin, C. S. Coleman, J. H. Vaden, and R. E. Zarza. Contains in pocket a soil map, scale 1:50,000 (11 sheets) of Okinawa. Vol. 1 is "Introduction and Engineering Aspects" and contains a soil engineering map, scale 1:50,000 (11 sheets). Vol. 2 is "Water Resources" and Vol. 5 is "Geology" and both contain maps. On file at U.S. Geol. Surv. Libr., Reston, Va., and a few other libraries in U. S.

United States Army Pacific with personnel of United States Geological Survey. 1960. Military geology of Ishigaki-Shima, Ryukyu-Retto: Part 1, General description of the terrain: Part 2, Engineering aspects of the terrain. 323 p.
Information on soils, p. 157-260, authored by Carl H. Stensland and Richard J. Alvis. Contains in pocket the following: "Topographic Conditions Map", scale 1:50,000 (1 sheet); "Vegetation Map", 1:25,000 (2 sheets); "Geologic Map" 1:50,000 (1 sheet); "Soils Map", 1:25,000 (2 sheets); "Construction Materials Map", 1:50,000 (1 sheet); "Construction Sites Map", 1:50,000 (1 sheet); and "Water Resources Map", 1:50,000. On file at U.S. Geol. Surv. Libr., Reston, Va., and several other libraries in U. S.

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ABBREVIATIONS

Abbreviations, except those few followed by an asterisk (*), are in accordance with the WORD-ABBREVIATION LIST, 1971 edition, and supplements, of the National Clearinghouse for Periodical Title Word Abbreviations. This Clearinghouse was established in 1966 by Standards Committee Z39 of the American National Standards Institute. The word-abbreviation list also conforms to the UNISIST/ICUS-AB International List and hence accommodates many non-English as well as English words.

Many word roots end with a hyphen (-), which means that the root stands for various words with different endings but having the same root. For example, the word-root, "Academi-" (for which the abbreviation is "Acad.") may stand for academie, academiae, academic, academician, academico, academiei, academies, or even additional words that have the root "academi-".

An asterisk (*) after an abbreviation, for example "CCTA*", means that the abbreviation has been inserted for use in this bibliography and was not extracted from the Word-Abbreviation List of the National Clearinghouse.

ABBREVIATION	WORD ROOT
Abstr.	Abstract-
Abt.	Abteilung
Acad.	Academi- Academy
Accad.	Accadem-
Addit.	Additamentum Addition- Additivi-
Adm.	Administr-
Adv.	Advanc-
Advis.	Adviser- Adviseur- Advisor-
Afd.	Afdeeling Afdeling
Aff.	Affair-
Afr.	Africa- Afrika- Afrique
Agrar.	Agrari-
Agric.	Agricol- Agricult-
Agrobiol.	Agrobiolog-
Agrobot.	Agrobotan-
Agrochem.	Agrochemi-
Agrochim.	Agrochimi-
Agrogeol.	Agrogeolog-
Agrol.	Agrolog-
Agron.	Agronom-
Agropecu.	Agropecuari-
Agrotec.	Agrotecni-
Agrotech.	Agrotechni-
Agroteh.	Agrotehni-
Akad.	Akadeem- Akadem-
Allg.	Allgemein-
Am.	America-
An.	Anais Anale Analele Anales Anani Anals
Anal.	Analis- Analit- Analiz- Analys- Analyt- Analyz-
Anim.	Animal Animat- Animaux-
Ann.	Annaes Annal-
Annot.	Annotat-
Annu.	Annu-
Anot.	Anotaciones Anotationes
Anthropol.	Anthropolog-
Antiq.	Antique- Antiquit-

ABBREVIATIONS	WORD/ROOT
Anu.	Anual- Anuar-
Apl.	Aplica- Aplika-
Append.	Appendices Appendi- Appendix
Appl.	Applica- Applied Applique-
Aprovision.	Aprovisionamient-
Arb.	Arbied- Arbiet
Arch.	Archiv-
Artic.	Article
Asiat.	Asiati-
Asist.	Asistenc-
Asoc.	Asocia-
Asses.	Assessment
Assist.	Assistance Assistant
Assoc.	Associ-
Atl.	Atlantic-
Atmos.	Atmosfaer- Atmosfar- Atmosfer- Atmosphaer- Atmospher-
Aufn.	Aufnahme-
Ausl.	Auslaendisch- Ausland
Aust.	Australi-
Aver.	Average
Beob.	Beobach-
Ber.	Bericht
Biannu.	Biannual
Bibliogr.	Bibliograph- Bibliograf-
Bibl.	Bibliotec- Bibliotek- Bibliothec- Bibliothek- Biblioteque-
Bienn.	Biennial

ABBREVIATIONS	WORD/ROOT
Bild.	Bildung
Bimon.	Bimonthly
Biochem.	Biochem-
Bioclimatol.	Bioclimatolog-
Biodyn.	Biodynamic
Bioeng.	Bioengineer-
Biogeogr.	Biogeograph-
Biogr.	Biograf- Biograph-
Biol.	Biolog- Bioloj- Bioloog- Biolosk-
Biosci.	Bioscience
Biotech.	Biotechni-
Biotechnol.	Biotechnolog-
Bodenkd.	Bodenkund-
Bol.	Boletim- Boletin-
Bot.	Botan-
Br.	Britain Britanni- British
Build.	Builder Building
Bul.	Buleten- Buletin Bulten
Bull.	Bulletin- Bulletino
Bur.	Bureau-
Bus.	Business
Cah.	Cahier-
Can.	Canada Canadi-
Cap.	Capital
Cartogr.	Cartograf- Cartograph-
Cat.	Catalog-

ABBREVIATIONS	WORD/ROOT
C.C. T. A. or CCTA*	Commission de Cooperation Technique en Afrique au sud du Sahara (Commission for Technical Cooperation in Africa South of the Sahara)
Cent.	Center- Centraal- Central Centrala Centrale Centraln- Centre Centro
Centrafr.	Centrafric-
Centroam.	Centroamerica-
CEPAL*	Comision Economica para America Latina de las Nacionnes Unidas (United Nations Economic Commision for Latin America)
Charact.	Characteristic Characteriz-
Chem.	Chemia- Chemic- Chemie Chemii Chemij Chemik- Chemine- Chemisch- Chemist Chemiz- Chemj-
C. I. A. F.*	Centro Interamericana de Fotointerpretacion
CIDA*	Inter-American Committee for Agricultural Development (Comite Interamericano de Desarrollo Agricola)
Cienc.	Ciencia-
Cient.	Cientific-
Circ.	Circolar- Circolazione Circolo Circulaire Circular- Circulat- Circulo
Clasif.	Clasific-
Classif.	Classifi- Classification
Clim.	Climate Climati-
Climatol.	Climatolog-
Co.	Companies Company
Colab.	Colaboracion-
Colecc.	Coleccion-
Col.	Colegio
Collab.	Collaborat- Collaborazione
Collect.	Collect-
Coll.	College- Collegi-
Colloq.	Colloque- Colloguia Colloguio Colloqium
Colon.	Coloni-
Coloq.	Coloquio-
Com.	Comisi- Comissao Comit-
Coment.	Comentario
Comer.	Comerci-
Comment.	Commentair- Commentar-
Comm.	Commissie Commission- Committee
Commonw.	Commonwealth
Commun.	Communica-
Compend.	Compendium
Compil.	Compilation
Compr.	Comprensive
C. R.	Compte Rendu Comptes Rendus
Comun.	Comunica-
Conf.	Conferenc- Conferent- Conferenz- Conferinta
Congr.	Congres-
Connais.	Connaissance

ABBREVIATION	WORD/ROOT
Cons.	Conseil Consejo Conselho Consiglio Consili-
Conserv.	Conservation- Conservacion
Consult.	Consult Consult- Consultat- Consulting
Cont.	Continent-
Contrib.	Contribuc- Contribuic- Contribut-
Conv.	Convegno Convenc- Convenio Convention Convenzione
Coop.	Coopera-
Corp.	Corporat-
Counc.	Council-
Couns.	Counsel-
C. S. I. R. O. or CSIRO	Commonwealth Scientific and Industrial Organization
Cult.	Cultur- Cultuur-
Def.	Defence Defensa Defense
Democr.	Democracy Democrati-
Dep.	Departament- Departemen- Departement- Department-
Descr.	Descripti- Descritti-
Dtsch.	Deutsch Deutsche-
Dev.	Development- Developpement-
Diffus.	Diffusion-
Dir.	Direcc- Direci- Directeur- Directi- Director- Direktion Direktor- Direkts- Diretor- Direttor- Direzion-
Dis.	Disease-
Diss.	Disserta-
Discuss.	Discussies Discussion-
Dist.	District Distrito
Div.	Divis-
Doc.	Document Documenta Documentac- Documental- Documentar- Documentatio- Documento- Documents
Dokl.	Doklad-
D. O. S. or DOS*	(Great Britain) Directorate of Overseas Surveys
Drain.	Drainage
Dyn.	Dynamic- Dynamik Dynamisch- Dynamisk-
East.	Eastern
Ec.	Ecole
ECLA*	United Nations Economic Commission for Latin America
Ecol.	Ecolog-
Econ.	Econom- Economi- Economy
Edafol.	Edafolog-
Ed.	Edic- Edit- Ediz-
Educ.	Educac- Educat- Educaz-

ABBREVIATIONS	WORD/ROOT
Ekol.	Ekolog-
Ekon.	Ekonom-
Elev.	Elevage
Emp.	Empire
Encycl.	Encyclop-
Eng.	Engenharia Engenheiro Engineer-
Ens.	Ensaio
Enseign.	Enseignment-
Environ.	Environment-
Entwickl.	Entwicklung
Erdkd.	Erdkunde
Erfahr.	Erfahrung-
Erforsch.	Erforschung-
Ergaenz.	Erganzung
Ernaehr.	Ernaehrung
Esc.	Escola- Escuela-
Espec.	Especial-
Establ.	Establ-
Estac.	Estac-
Estud.	Estud-
Ethnol.	Ethnolog-
Etud.	Etudes Etudiant-
Eval.	Evaluacion- Evaluation
Exp.	Experiment-
Exped.	Expedic- Expedition-
Explor.	Explora- Explorer
Ext.	Extension
Fac.	Facolt- Faculd- Facult-
Facil.	Facilit-
Fed.	Federa- Federe

ABBREVIATIONS	WORD/ROOT
Fert.	Fertilis- Fertiliz-
Fertil.	Fertilit-
Fisiol.	Fisiolog-
Fisiogr.	Fisiograf-
Foldt.	Foldtan-
Fom.	Fomento
Fondam.	Fondamenta-
Fond.	Fondation- Fondazione
F. A. O. or FAO	Food and Agriculture Organization of the United Nations
For.	Forest Forestal- Forester- Forestier- Forestry
Forsch.	Forschung-
Forstztg.	Forstzeitung
Fotogr.	Fotograf.
Found.	Foundation-
Fr.	Francais- France Franco French
Fund.	Fundacao Fundacion
Ganad.	Ganader-
Gard.	Garden-
Gaz.	Gazeta Gazette Gazettes
G.B.	Great Britain
Gen.	Genel- General- Generaux
Geod.	Geodaes- Geodaet- Geodas- Geodat- Geodes- Geodet- Geodez-
Geogr.	Geograf- Geograph-

ABBREVIATION	WORD/ROOT
Geol.	Geolog- Geologa- Geologe- Geologi- Geologo Geologos Geologov Geologue- Geology Geoloshk- Geolosk- Geolozh
Geomorfol.	Geomorfolog-
Geomorphol.	Geomorpholog-
Geophys.	Geophys-
Ger.	German
Ges.	Gesellschaft
Gesch.	Geschichte
Gouv.	Gouvernment-
Gov.	Government-
Grad.	Graduate
Grow.	Grower- Growing
Handb.	Handboek Handbook Handbuch
Heb.	Hebrew
Hebd.	Hebdomadaire-
Herb.	Herbage Herbari-
Hidraul.	Hidraul-
Hidrogeol.	Hidrogeolog-
Hidrogr.	Hidrograf-
Hidrol.	Hidrolog-
Highw.	Highway-
Hisp.	Hispalis Hispan-
Hist.	Histoir- Histor-
Hochsch.	Hochschule
Hum.	Humain- Human
Hydrol.	Hydrolog-
IAIAS*	Inter-American Institute of Agricultural Sciences
IICA*	Instituto Interamericao de Ciencias Agricolas (Inter-American Institute of Agricultural Sciences)
Imp.	Imperatorsk- Imperia-
Improv.	Improvement- Improving
Inaug.	Inaugural
Ind.	Industria- Industrie- Industrii Industriia Industriiu Industrij- Industrin- Industriya Industriyu Industry
Inf.	Informac- Informare Informatik- Information Informational Informatique- Informativ- Informator- Informats- Informaz- Informe-
Ing.	Ingegner- Ingenier- Ingenieur Ingenioer Ingenior Ingener-
I. N. Q. U. A. or INQUA*	International Association for Quaternary Research
Inst.	Institout- Instituc- Institus- Institut Instituta- Institute- Institution Instituto- Institutu- Instituut-
Interafr.	Interafrica-
Interam.	Interamerican-
Int.	Internaci- Internationaal International Internationaux Internazional-
Invest.	Investiga-

ABBREVIATION	WORD/ROOT
I. R. A. T. or IRAT*	L'Institut de Recherches Agronomiques et de Cultures Vivrieres
Irrig.	Irrigac- Irrigati- Irrigats- Irrigaz- Irrigate-
Isl.	Island Islend- Islenzk-
Ist.	Istitut- Istituzione
J.	Joernaal- Jornal- Journal
Jahr.	Jahrbuck Jahrbuecher
Jard.	Jardim- Jardin-
Kartogr.	Kartograf-
Klassif.	Klassifik-
Klim.	Klimat Klimati-
Klimatol.	Klimatolog-
Lab.	Laboratoir- Laborator-
Latinoam.	Latioamerican-
Lett.	Letter-
Libr.	Librair- Librar-
Lit.	Literar- Literatur Literature Literatury Literatuur
Litt.	Littarae Litterar- Litteratur Litterature
La.	Louisiana
Mag.	Magasin Magzijn Magazin-
Mapp.	Mapping
Marit.	Maritime-
Mech.	Mechani-
Meded.	Mededeeling- Mededeling-
Mediterr.	Mediterrane-
Meet.	Meeting-
Mem.	Memento- Memoir- Memori-
Memo.	Memorand-
Meteorol.	Meteorolog.
Mich.	Michigan
Mijnbouwkd.	Mijnbouwkund-
Mil.	Militaer- Militaerisch- Militair- Militar-
Mimeogr.	Mimeograph-
Min.	Mineraria Mineria Minero Mining
Miner.	Mineraal- Mineral- Minerale- Minerali- Mineraln- Mineral'n- Minerals Mineraux
Minist.	Minister- Ministr-
Misc.	Miscelan- Miscellan-
Mitt.	Mitteilung
Mod.	Modern-
Monogr.	Monograf- Monograph-
Mt.	Mount Mountain Mountainous Mountains
Mus.	Musea Musee Musei Museo Museu Museum
Muz.	Muzei Muzeia Muzej- Muzeu Muzeum Muzeya

ABBREVIATION	WORD/ROOT
Nac.	Nacion-
N. A. S. - N. R. C. or NAS-NRC	National Academy of Sciences-National Research Council
Nat.	Natuerlich- Natur Natura Naturae Naturais Natural- Nature Naturel- Naturen Naturii Natuur Natuurlijk- Natyor
Naturwiss.	Naturwissenschaft-
Nauk.	Naukov- Naukow-
No.*	Number
Not.	Notationes Notica- Notice- Notici- Notise- Notizi- Notulae Notulen
Nouv.	Nouveau- Nouvell-
O. A. F. or OAF*	Occidentale Afrique Francaise
O. A. S. or OAS*	Organization of American States (Organizacion de los Estados Americanos)
O. A. U. or OAU*	Organization of African Unity (Organisation de l'Unite Africaine)
O-Vo.	Obshchestvo-
Ocas.	Ocasion-
Occas.	Occasion-
Occident.	Occidental-
OEA*	Organizacion de Estados Americanos (Organization of American States)
Off.	Offic- Offiz-
Of.	Ofici-
Oper.	Operac- Operat- Operazione
Organ.	Organiza- Organize- Organizing Organizz-
OAS or O. A. S.	Organization of American States
Orient.	Oriental-
Pac.	Pacific Pacifique
Palaeobot.	Palaeobotan-
Palaeontol.	Palaeontolog-
Palaontol.	Palaontolog-
Pam.	Pamflet Pamphlet
Pap.	Papeis Papel Paper- Papier Papieru Papir Papiru
Pesq.	Pesque--
Pesqui.	Pesquisa
Pflanzenernaehr.	Pflanzenernaehrung-
Philos.	Philosoph-
Photogr.	Photograaf- Photograf- Photograph-
Photogramm.	Photogrammetr-
Phys.	Physica- Physicist Physico Physics Physicu- Physik Physikal- Physique- Physisch-
Plann.	Planner Planning
Pochv.	Pochven-
Pochvoved.	Pochvoveden-
Pol.	Polish
Port.	Portug-
Prat.	Pratique Pratica
Prelim.	Prelimin-

ABBREVIATIONS	WORD/ROOT
Prod.	Produc- Produit- Produkt Produktion Produktiv- Produzion-
Prof.	Profesion Profession Professional
Program.	Programac-
Proj.	Project- Projekt
Prot.	Protecao Proteccion Protecti- Protectorate Protettivo Protettorato Protezoine
Prov.	Provinc- Provints- Provinz
Publ.	Publicac- Publicat-
Q.	Quarterly
Quim.	Quimic-
Racion.	Racional-
Rap.	Raporlari Raport-
Rapp.	Rapport-
R.	Real (Royal) Reale Royal
Reclam.	Reclamation
Recomm.	Recommend-
Rec.	Record-
Recur.	Recurso-
Reg.	Region-
Relaz.	Relazion-
Repubb.	Repubblica
Repub.	Republica- Republiek Republik- Republique
Res.	Research-
Resour.	Resource-
Ressour.	Ressource-
Rev.	Review- Revija Revised Revisio Revista Reviste Revistele Revue- Revuo
Riv.	Rivist-
Schr.	Schrift
Sci.	Scienc- Scient- Scienz-
Secc.	Seccao Seccion-
Secr.	Secretar-
Sel.	Selacao- Seleccion- Select- Selek- Selezione
Sem.	Semaine Semana-
Sep.	Separate Separation- Separatsi
Ser.	Seria- Serie- Seriia Serija Seriya Seryia Seryya
Serv.	Servic- Serving Serviz-
Ses.	Sesion- Sesiun- Sesji Sessi-
Sist.	Sistem-
Soc.	Social Sociale- Socialist- Socialn- Sociedad- Societ- Socijalist-
S. Afr.	South Africa
South.	Southern
Southwest.	Southwestern
Sov.	Soviet

ABBREVIATION	WORD/ROOT
Soz.	Sozial Soziale Sozialí- Sozietaet
Spec.	Special- Speciaux
Stn.	Station
S. T. R. C. or STRC*	Scientific, Technical and Research Commission (Commission Scientifique et de la Recherche)
Stud.	Studenchisk- Student- Studia Studie Studien Studies Studii Studiia Studij Studio Studium Studiya
Subtrop.	Subtrop-
Sudam-	Sudamerica-
Suec.	Suecan- Suecic-
Super.	Superieur- Superior-
Supl.	Suplement- Supliment-
Suppl.	Supplement- Supplementa- Supplemento Supplements
Supt.	Superintend-
Surv.	Survey-
Taxon.	Taxonom-
Tech.	Techni-
Tec.	Tecni-
Tecnol.	Tecnolog-
Teil	Teilung
Territ.	Territor-
Tidschr.	Tidschrift-
Tijdschr.	Tijdschrift-
Topogr.	Topograf- Topograph-
Trab.	Trabajo- Trabalho-
Transp.	Transport-
Trav.	Travail- Travaux
U. K.	United Kingdom
UN OR U. N.	United Nations
U. N. D. P. or UNDP*	United Nations Development Programme
U. N. E. S. C. O. or UNESCO	United Nations Educational, Scientific and Cultural Organization
U. S. or US	United States
U. S. A. or USA	United States of America
U. S. S. R. or USSR	Union of Soviet Socialist Republics
Univ.	Universidad- Universit- Universytet- Univerzitet-
Util.	Utili-
Veg.	Vegeta- Vegetab- Vegetal- Vegetaux
Vol.	Volum-
Vses.	Veseoyuzn-
Wirtsh.	Wirtschaft-
Wiss.	Wissenchaft-
W. M. O. or WMO*	World Meteorological Organization of the United Nations
Work.	Worker- Working
Z.	Zeitung
Zool.	Zoolog-

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