

SMITHSONIAN MISCELLANEOUS COLLECTIONS

VOLUME 130 (WHOLE VOLUME)

ANNOTATED, SUBJECT-HEADING
BIBLIOGRAPHY OF TERMITES
1350 B.C. TO A.D. 1954

By

THOMAS E. SNYDER

Washington, D.C.



(PUBLICATION 4258)

CITY OF WASHINGTON

PUBLISHED BY THE SMITHSONIAN INSTITUTION

SEPTEMBER 25, 1956



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THE LORD BALTIMORE PRESS, INC.
BALTIMORE, MD., U. S. A.



V. 130

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ANNOTATED, SUBJECT-HEADING
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INTRODUCTION

As early as 1350 B.C. (Dow, 1915), the Rig Vedas referred in Sanskrit to "ghuna" as destroyers of wood, and these were probably termites. The animals of India were known to the early B.C. Greek authors. Pliny in his *Natural History of the World*, 77 A.D., in a manner similar to his other "facts," discusses Indian "pissmires," which may be "white ants" or ants. Hagen in 1855 gives a historical summary of these early accounts of termites.

A bibliography of the Isoptera (1758-1949), Griffin, 1951, has been used in this work. Like Griffin, I have not included some of the articles listed in the *Review of Applied Entomology* (series A), or in the *Index of American Economic Entomology*, where papers on termites are also referred to under subject headings.

The bibliography is partly selective. Taxonomic articles published since 1949, when my *Catalog of Termites of the World* was published, are included, but not those papers referred to in that catalog unless subjects other than taxonomy are discussed. This bibliography includes papers through 1954, with some of 1955. A total of 3,624 references are included.

ACKNOWLEDGMENTS

This bibliography was begun in 1909 when I was in the Division of Forest Insects, Bureau of Entomology, U.S. Department of Agriculture; work was continued until I retired in 1951. Since then, most of the annotations have been made, and much more time has been available to complete it.

Dr. Alfred E. Emerson of the University of Chicago has supplied many references, especially those relating to taxonomy and biology.

Librarians, bibliographers, and translators of the Department of Agriculture, librarians of the U.S. National Museum, and my wife have all given help in its preparation.

Funds for typing the manuscript were kindly furnished by Dr. Frederick Cunliffe, Director, Pinellas Biological Laboratory, Inc., St. Petersburg, Fla.

A grant from the National Science Foundation, Washington, D.C., has assisted the Smithsonian Institution in publishing the bibliography. Editors of the Smithsonian have been very helpful.

Grateful acknowledgment is made to the E. L. Bruce Co., of Memphis, Tenn., for a grant applied toward the costs of preparing this paper for the printer.

LIST OF SUBJECT HEADINGS

- Anatomy, see Morphology.
 Arsenic hazard.
 Bacteria; see also Nutrition.
 Baits, see Soil poisons.
 Balance of nature.
 Bees, stingless, association with.
 Behavior; see also Biology.
 Bibliography.
 Biography.
 Biology, ecology.
 Building codes; see also Control, Resistant woods, Wood preservation.
 Caste determination, intermediates, intercastes.
 Chemical analysis.
 Chemical warfare.
 Cold, see Temperature.
 Communication.
 Control, construction, termite-proofing.
 Courtship.
 Cytology (cell growth).
 Damage.
 Damage to living vegetation.
 Detection; see also Experimentation, Microphones.
 Digestion; see also Nutrition, Protozoa.
 Diseases, human, plant, and termite; see also Parasites.
 Distribution.
 Dusts, poison, see Poison dusts.
 Ecology, see Biology.
 Electricity, see Detection, Experimentation, Microphones.
 Embryology.
 Evolution.
 Experimentation; see also Detection, Microphones.
 Fire hazard; see also Control.
 Flight.
 Folklore.
 Food, termites as.
 Fossil.
 Fumigation.
 Fungi, association with; see also Rearing.
 Fungus cultivation.
 Gaseous environment.
 Genetics.
 Genitalia, reproductive or sex organs.
 Geologic agents.
 Heat, see Temperature.
 Hermaphrodites, see Biology.
 Histology, see Morphology.
 Humidity.
 Introduced.
- Legislation or regulation.
 Medicine, uses in.
 Microphones.
 Migration, see Biology.
 Moisture, see Biology.
 Molds, see Nutrition, Parasites.
 Morphology, Histology (tissue growth).
 Neotenia, see Biology.
 Nests.
 Nutrition.
 Obituary.
 Parasites.
 Parthenogenesis, see Biology.
 Phylogeny; see also Evolution, Taxonomy.
 Physiology, see Biology.
 Poison dusts.
 Population.
 Predators.
 Protozoa; see also Digestion, Nutrition.
 Racket.
 Rearing.
 Regeneration.
 Regulation, see Legislation.
 Repellents, see Soil poisons.
 Reproductive organs, see Genitalia.
 Resistant woods.
 Respiration, see Gaseous environment.
 Reviews.
 Rhythm, coordinated.
 Secretions.
 Sense organs.
 Sex organs, see Genitalia.
 Shields, metal barriers.
 Soil poisons, baits, repellents.
 Sound.
 Spermatogenesis.
 Stridulation.
 Superorganism, supraorganism, colony as.
 Swarm, see Flight.
 Symbiosis, see Biology, Nutrition, Protozoa, Termitophiles.
 Tax status of loss, see Damage.
 Taxonomy.
 Temperature.
 Termitophiles.
 Uses in industry, arts, and religion.
 Water table.
 Wood preservation, poisons for fabrics and fiber-boards, insulation, etc.
 X-ray, see Detection and Experimentation.
 Zoogeographical regions.

NOTE.—In the "Index of American Economic Entomology," under the heading "Termites" and supplementary subject-headings there are many papers not referred to in this bibliography; some are of minor importance, others repetitions.

SUBJECT HEADINGS

(For complete citations see List of Authors and Titles beginning on page 149. References marked with an asterisk are not listed in this publication, but will be found in Snyder's "Catalog of the Termites of the World," Smithsonian Misc. Coll., vol. 112, 1949.)

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BAITS, POISON, See SOIL POISONS

BALANCE OF NATURE

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 1928, pp. 324-326. (Fertile soldiers in *Termopsis*, California; copulate with normal substitutes, young normal; stimulated by special diet.)
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 1932*, pp. 149 and 153. (Australia, intercaste soldiers in *Eutermes*.)
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 1912*, pp. 129-153. (As result of method of feeding, three potential germ plasms are released in at least three directions; there must be a germ plasm correlation which finds its expression in the caste correlation, p. 140.)
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 1921, pp. 92-95, 1921a, 213-215. (Metabolism of true royal pair reproductives.)
 1924, pp. 269-500. (Caste differentiation, neoteinics.)
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- LIGHT, S. F., and WEESNER, F. M., 1947a, pp. 244-245. (Development of castes in higher termites.)
- 1951, pp. 397-414. (Production of supplementary reproductives, *Zootermopsis*; inhibition theory.)
- LÜSCHER, M., 1951b, pp. 404-408. (Determination substitute reproductives *Calotermes flavicollis*.)
- 1952, pp. 123-141. (Production and elimination of replacement reproductives by inhibition, *Kalotermes flavicollis*; when king and queen removed new supplementary reproductives appear after about 8 days. Inhibitory influence upon asexual individuals maintained where direct contact with antennae or circulation of air. Surplus sexual individuals eaten.)
- 1952a, pp. 529-543. (Individual growth studies, *Kalotermes flavicollis*, regression.)
- 1952b, pp. 289-294. (Ectohormonal control caste determination.)
- 1953, pp. 74-76, 78. (Ectohormonal control caste determination, inhibition factor; and promotion factor, for soldiers.)
- 1953a, pp. 524-528. (Can determination be released by a monomolecular reaction, *Kalotermes flavicollis*?)
- 1955, p. 186. (Inhibition material produced by sexual adults.)
- MARCUS, H., 1948, pp. 23-27. (Genetic basis of polymorphism and suppression of sexuality. Polymorphism present in common "*Nasutus*" sp. even in egg; horn soldiers visible at very early stages, represents a mutation. As soldiers sometimes lay eggs, crossing with normal forms might give heterozygotic spermatozooids. Origin polymorphism a mating between *Termes* and "*Nasutus*," resulting in a polymorphic heterozygotic termite, with recessive horn, from which would result, in Mendelian proportions, 1 sexual termite, 2 workers in which castration had occurred, and 1 "*Nasutus*" soldier in which castration had occurred.)
- 1949a, pp. 97-101. (Polymorphism of *Nasutitermes chaquimayensis*, Bolivia; classes of *Nasutitermes* and queen of *Rhinotermes nasutus* living in same habitat, crossing of this female with a hornless male could produce all existent forms of polymorphism, according to laws of Men-
- del in connection with arbitrary castration.)
- MILLER, E. M., 1942, pp. 1-27. (Caste differentiation *Prorhinotermes simplex*, Florida, extrinsic (inhibition theory), nymphs may transform to supplementary reproductives or soldiers even after attaining wing pads. No permanent well-defined worker caste.)
- MONTALENTI, G., 1927, pp. 529-532. (Italy, *Calotermes flavicollis* colonies kept alive for comparatively long time on diet soluble carbohydrates. After 3 to 4 days notable diminution in number of Joenic, Mesojoenic of caecum, after 10 days completely disappeared; caecum became reduced, other flagellates diminished in numbers. Does not prove that starving Protozoa without depriving termites of food is equivalent to nutrition neotenic receive in nature.)
- 1929, pp. 108-128. (*Termes lucifugus*, Italy, 2 castes recognizable in 3d instar; gonads neuters develop precociously through external cause.)
- NOIROT, C., 1949, pp. 600-602. (Development of neuters in Amitermitinae and Microcerotermitinae.)
- 1949a, pp. 2053-2054. (Development of neuters in Nasutitermitinae.)
- 1950, pp. 475-477. (Development of neuters in Macrotermitinae.)
- 1951, pp. 447-449. (Development of neuters in Termitinae.)
- 1953, pp. 405-414. (Survival depends on group activities, licking, feeding, molting, nutrition not responsible for caste determination.)
- PICKENS, A. L., 1932, pp. 178-180. (Ectohormonal inhibitions.)
- 1938, pp. 1-2. (U.S., *Reticulitermes*, workers inhibited reproductives, soldiers arise from eggs laid somewhat late, each caste blends with others.)
- 1940, p. 1. (*Reticulitermes*, caste arrangement, 3 intercastes premature or delayed adulthood gives many subcastes.)
- 1943, pp. 116-118. (*Reticulitermes*, caste arrangement, caste taxonomy, intercastes transitional forms.)
- 1946, p. 1. (*Reticulitermes*, caste arrangement, subcastes or hybrids in alates.)
- 1952, pp. 133-135. (Biochemical control of caste in an insect community, inhibitory secretion in termites, 2 sizes may be expected in the intercastes.)

- 1954, pp. 71-74. (Inhibition theory; in *R. flavipes* colonies in laboratory after 4 years alates produced from primary pair, even in 5th year in 2 distinct sizes.)
- PINTO, M. P. D., 1941, pp. 73-105. (Ceylonese Calotermitidae, apterous and brachypterous neotenicus developed from undifferentiated nymphs in absence of functioning dealated adults in colony, or in groups of immature forms separated from parental nest. Under certain conditions nymph can inhibit development of wingpads even after latter have attained considerable size. Breeding experiments have shown that neotenicus can survive without assistance of immature forms and that they do not necessarily breed true.)
- ROSS, H. H., 1948, pp. 209-211. (Hormones, inhibition theory.)
- SILVESTRI, F., 1901, pp. 479-484. (Origin of castes.)
- 1945, pp. 77-89. (Intercaste of *Syntermes grandis*.)
- SNYDER, T. E., 1913, pp. 487-488. (Differentiation soldier during molt and quiescent stage from workerlike form.)
- 1913a, pp. 162-165. (Changes during molt nymphs first and second forms and soldier.)
- 1920*, in Banks and Snyder, p. 112. (Food not cause caste differentiation, genetic.)
- 1925b, pp. 57-68. (Origin castes, genetic.)
- 1926f, pp. 522-552. (Origin castes, genetic; phylogenetic origin as evidenced by paleontology, taxonomy, and breeding experiments.)
- 1933c*, pp. 161-166. (Intermediate soldier-worker in *Nasutitermes myersi*, Brazil.)
- 1935e, pp. 3-4. (Theories of origin of castes, genetic theory favored.)
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- THOMPSON, C. B., 1917, pp. 83-136. (U.S., *Reticulitermes*, genetic theory origin castes.)
- 1919, pp. 379-398. (Development castes in 9 genera, 13 species.)
- 1922, pp. 495-535. (U.S., origin castes in *Termopsis*.)
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- 1920, pp. 591-633. (Wingless type reproductive form in *Reticulitermes* and *Pro-rhinotermes*.)
- WEESNER, F. M., 1953, pp. 289-294. (Arizona, *Tenuirostritermes tenuirostris*, presence of alates inhibits the appearance of young of same line; summary of various theories of caste determination, pp. 289-291.)
- WEYER, F., 1930b, pp. 177-190. (Germ glands in workers and soldiers.)
- 1931, pp. 353-373. ("Blastogene" and "somatogene" theory of caste differentiation. In *Eutermes amboinensis* no suggestion of separation into 2 distinct groups of reproductive and worker-soldier individuals as claimed by Thompson (1917, 1922). Eggs contain potentialities for development into specific caste but extrinsic factors as presence quartz crystals among eggs (possibly causing unequal oxygenation?) or differential handling or feeding of young by workers may modify the direction of development.)
- 1932, pp. 185-186. (Body, not germ, basis; influence of nutrition; first larval stage critical period.)
- WHEELER, W. M., 1907, pp. 1-93. (Characters represented in the germ as dynamic potencies, not morphological determinants.)

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- ANDREWS, E. A., 1916, pp. 56-60. (India, analysis of soil of a mound showed increased proportion finer particles than in surrounding soil; analysis of fungus comb, organic matter 75.78% silica 19.09%, potash 0.12%, phosphoric acid 0.35%, lime 1.45%, magnesia 0.60%, nitrogen 1.98%, water 11.9%—all on dry substance.)
- ANONYMOUS, 1938, p. 17. (Lime carbonate in mounds, East Africa.)
- AUFFRET, C., and TANGUY, F., 1949, pp. 110-112. (Chemical analysis of termites as food, living and fried, for certain races source of protein, fat, and calories.)
- BATHELLIER, J., 1922a, pp. 399-403. (Nature of the glue of *Eutermes*.)
- BAUMANN, E., 1882, pp. 419-424. (Analysis of a termite nest from Australia.)
- COHEN, W., 1933, pp. 166-169. (Determination cellulose, lignin, and other woody constituents mound *Eutermes exitiosus*,

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- GHIDINI, G. M., 1938c, pp. 261-267. (Function of spongy lignin in nests of Metatermitidae.)
- GRASSÉ, P. P., and JOLY, P., 1941, pp. 57-62. (Walls mounds *Amitermes evuncifer* nearly pure earth, walls larval chambers 45.6% organic matter; walls mounds *Cubitermes* sp. and *Bellcositermes natalensis* nearly pure earth.)
- GRIFFITH, G., 1938, pp. 70-71. (Analysis soil of mounds different parts Uganda, agricultural value.)
- HOLDAWAY, F. G., 1933, pp. 160-165. (Composition of different regions of mounds (walls and nursery) *Eutermes exitiosus* in 3 different regions Australia, soil analysis 5 mounds—cellulose, lignin, etc., inner wall chosen for laboratory timber tests since its variability in organic content and bulk were more suitable.)
- KOFOID, C. A., and BOWE, E. E., in Kofoid, 1934, 2d ed., pp. 534-539. (Resistant woods.)
- OSIIMA, M., 1919, pp. 337-338, 347-374. (Frontal gland acidulous secretions *Coptotermes formosanus* soldier dissolves lime mortar, pp. 337-338; analysis resistant woods of Formosa—sesquiterpene alcohol and tectoquinone, pp. 341, 347-374.)
- SCHIFF, H., 1858, pp. 109-110. (Nests, Java.)
- SCHÜBEL, K., 1912, pp. 303-310. (Earthen tubes of *Eutermes monoceros*.)
- SHERRARD, E. C., and KURTH, E. F., in Kofoid, 1934, 2d ed., pp. 554-563. (Resistant woods.)
- SHRIKHANDI, J. G., and PATHAK, A. N., 1948, pp. 327-328. (Termite galleries.)
- SNYDER, T. E., 1935c, p. 56. (Analysis pellets *Cryptotermes brevis*, mostly lignin, cellulose digested.)
- 1948, pp. 63-64, 153. (Analysis pellets *Cryptotermes brevis*, mostly lignin, cellulose digested, pp. 63-64; chemical extractives in wood, p. 153.)
- SNYDER, T. E., and ZETEK, J., 1924. (Shelter tubes, *Coptotermes niger*—siliceous material, lignin, p. 16; *Nasutitermes ephratae* shelter tube mostly lignin, siliceous material practically absent, p. 20; shelter tube *Microcerotermes arboreus* siliceous material, lignin with no evidence of cellular structure present as was present in lignin in *Coptotermes* tube, p. 21; all tubes from Panama.)
- STUMPER, R., 1923, pp. 409-411. (Chemical composition nests of *Apicotermes occultus*, Africa.)
- TIHON, L., 1946, pp. 865-868. (Chemical analysis termites as food, rich source protein, value of 100 grams being 560.52 calories, high potassium and phosphoric acid, low in sulfates, oil high acidity.)

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- ANONYMOUS, 1933, pp. 8-9. (Termite secretions used in warfare by insects.)
- EMERSON, A. E., in Allee et al., 1949, pp. 425-426. (Secretions by *Rhinotermes* and *Nasutitermes*.)
- HINGSTON, R. W. G., 1928, pp. 717-725. (India, *Eutermes biformis*, sticky clear fluid from beak of soldier for defense.)
- MCLACHLAN, R., 1878, p. xii. (*Termes trinervis* and *ripperti* head secretions.)
- SNYDER, T. E., 1926f, pp. 533-534. (Evolution of frontal gland, from primitive to specialized termites, as an organ of defense—a sticky white secretion exudes from the tube, very effective against insect enemies.)
- 1935e, pp. 29-31. (Evolution of frontal gland, from primitive to specialized termites, as an organ of defense—a sticky white secretion exudes from the tube, very effective against insect enemies.)
- 1948, pp. 34-36. (Protective secretions from frontal gland.)

COLD, See TEMPERATURE

COMMUNICATION

- EMERSON, A. F., 1929a, pp. 722-727. (Discussion by Kemner, disagrees with Emerson on communication by vibration strata.)
- FULLER, C., 1915a, pp. 329-504. (South Africa, calling attitude of females *Termes natalensis*, *latericius*, and *vulgaris* on grass stems by violently agitating their wings.)

- HUNT, E. H., 1910, pp. 196-197, 268-269. (Kuala Lumpur, *Termes carbonarius* hammer heads against nest, produce clicking sound.)
- KOFOID, C. A., 1934, 2d ed., p. 11. (By sound vibration.)
- MICHENER, C. D., 1953, pp. 1-15. (Females turn up tip abdomens after flight, odor.)
- SNYDER, T. E., 1915, p. 32. (Convulsive movements; odor.)
- 1926f, pp. 540-541. (Sensitive to vibration; odor.)
- 1935e, pp. 28, 32, 51. (Sensitive to vibration; odor.)
- 1948, pp. 57-58. (Chordotonal organs, perceive sound or vibrations; odor.)

CONTROL

- ADAMSON, A. M., 1937, pp. 141-149. (Trinidad, general, resistant woods.)
- AGARWALA, S. B. D., JHA, M. P., and SINGH, R. P., 1954, pp. 231-232. (India, sugar-cane.)
- ALLIOTT, H., 1947, pp. 1-3. (Wood preservation.)
- ANDREWS, E. A., 1916, pp. 54-72. (Luskerpore Valley, India, tea bushes, prune, good cultivation, mound-building, subterranean termites.)
- 1924, pp. 118-125. (Ceylon, tea bushes, *Calotermes*, burn badly damaged; clean out cavity, paint with creosote, fill with cement.)
- ANONYMOUS, 1892, p. 201. (Remedies, fruit trees.)
- 1909, pp. 1-3. (South Africa, fumigation, "Universal Ant Exterminator.")
- 1916, p. 59. (Use ammonia fumes, books, U.S.)
- 1917, pp. 477-479. (Brazil, destruction mounds by hollowing out chamber in one side at base in which straw or other material is placed and lit—a draught being ensured by a hole driven obliquely through the mound, leading from the top of the combustion chamber to a point high up on the opposite side. *Eutermes rippertii*, *Termes tenuis*, *strunki*, and *spinosus*.)
- 1921, pp. 290-295. (Australia, chemical treatments, soil poisons.)
- 1923, pp. 50-55. (Protection airplanes, Eastern tropical Africa, keep off ground, sprinkle naphthalene on ground, shields, wood preservatives.)
- 1926, p. 22. (Protection buildings, U.S.)
- 1928, p. 80. (Wood preservation, U.S.)
- 1930, pp. 45-48, 59. (Panama, test buildings constructed of chemically impregnated timber.)
- 1934a, pp. 1-4. (Subterranean termites, buildings, Alabama.)
- 1935a, pp. 7-23. (Kaduna, Nigeria.)
- 1936, p. 434. (Protection buildings, U.S.)
- 1936a, pp. 6-7. (California, legislation.)
- 1936b, pp. 43-44. (Southern U.S., termite-proofing buildings.)
- 1936c, p. 10. (California, minimum standards repair and treating.)
- 1936d, pp. 12-13. (Australia.)
- 1936e, pp. 1-7. (U.S., fire hazard.)
- 1936o, pp. 8-14. (U.S., questions answered by T. E. Snyder.)
- 1937, p. 19. (U.S., protection buildings, chemically treated timber.)
- 1937a, p. 2. (U.S., protection buildings chemically treated timber.)
- 1937b, p. 66. (U.S., legislation, wood preservation.)
- 1937c, p. 48. (U.S., "jerry-building" hazard.)
- 1937e, pp. 1-11. (U.S., general.)
- 1938a, pp. 1-4. (U.S., Better Business Bureau's recommendations.)
- 1938b, pp. 101-110. (Philippines.)
- 1938c, p. 19. ("Virus" used to control termites, Australia, proved to be arsenicals.)
- 1940, p. 6. (Control subterranean type in buildings in U.S., by structural and chemical barriers, standards for pest control operators.)
- 1940a, pp. 7-9, 15. (Remedial measures in buildings, U.S. Agric. Adjustment Admin.)
- 1941, p. 139. (Trichinopoly, South India.)
- 1941a, pp. 339-342. (Use of pump to blow hot arsenic and sulfur fumes into nests, South Africa.)
- 1942, pp. 1-37. (U.S. Dept. Agriculture's recommendations, structural and chemical methods to control subterranean termites attacking buildings; revision 1949, pp. 1-38, soil poison dosages increased.)
- 1944, pp. 1-4. (Revision of 1938, 3d ed., Better Business Bureau recommendations, subterranean termites, buildings, U.S.)
- 1945, pp. 1-14. (Cawnpore, India, Ordnance Laboratories methods.)
- 1946, pp. 8-11. (U.S.)
- 1947a, pp. 1-7. (Low-cost housing, Louisiana.)
- 1947b, pp. 1-4. (N.S. Wales, Australia.)

- 1947c, pp. 14, 16. (Standard termite clause in connection with sale of properties, U.S.)
- 1947d, p. 18. (Northern California PCO's greet Dr. Thomas E. Snyder and W. O. Buettner August 4-5, 1947, experimental fumigation control dry-wood termite.)
- 1947i, p. 1, 58-67. (U.S. Army's recommendations for control termites, structural and chemical.)
- 1948, pp. 1-20. (U.S. Dept. Agriculture's recommendations for structural and chemical control, prevention, new buildings.) 1951 revision, pp. 1-26. (Soil poison dosages increased.)
- 1949, pp. 19-21. (Consumers Research Bulletin, control methods, U.S.)
- 1949m, pp. 1-11. (Protection buildings, Tropics.)
- 1950, pp. 1-4. (Australia, general.)
- 1950a, pp. 75-105. (South Africa, general.)
- 1950b, p. 11. (What a termite inspection report (U.S.) should include.)
- 1951, pp. 1-250. (Approved references procedures, National Pest Control Assoc., U.S.)
- 1952, pp. 37-38. (Real estate "clearances" or inspection reports on presence or absence termites, California, Nebraska, Tennessee, U.S.)
- 1953a, pp. 27, 30. (Kansas, U.S.)
- 1953a', pp. 9-11, 36, 48. (U.S., poison soil before slab laid, install Hill-Smith "termi-pipe" system; pentachlorophenol sprays for foundation timbers.)
- 1953b, p. 12. (U.S., Schramm air compressors and air hammers, penetrate concrete.)
- 1953d, pp. 29, 34. (Warning by Atlanta, Ga., officials against poor termite control.)
- 1953g, p. 42. (U.S., slab drilling not effective, space left not filled by chemical.)
- 1953l, p. 29. (Florida, inspection form for report on termite infestation or not—cost \$10.00.)
- 1953m, pp. 20, 22. (U.S., slabs (sealers for expansion joints best where rubber base), clearances for real estate, inspection reports, soil fumigants.)
- 1953o, pp. 37-52. (U.S. Navy's recommendations control subterranean and dry-wood termites, structural and chemical.)
- 1954a, pp. 43-44, 46. (U.S., "Do it yourself" quotes Dr. T. E. Snyder—employ an expert.)
- AUDANT, A., 1946, pp. 192-196. (Haiti.)
- AYARS, J. S., 1948, pp. 86-90. (Subterranean type, U.S.)
- 1949, pp. 90, 92. (Subterranean type, U.S.)
- AZEVEDO, L. A. MARQUE DE, 1925, pp. 392-394. Rio de Janeiro, Brazil.)
- BACH, M., 1860, pp. 406-415, 444-460.
- BACK, E. A., 1940, pp. 365-374. (Fumigation books infested with dry-wood termites in vacuum cylinders.)
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- BASU, M., 1942, p. 617. (India, books fumigated in chamber with 40% formaldehyde solution for 5 min., then placed on shelves on which were small bags containing a powder equal parts orris root (bach), cloves (labanga), black pepper (golmorich) and cinnamon (dar-chini). No further attack by termites from May 1940 to May 1942.)
- BATES, G., 1926, pp. 4-5. (Australia, *Mastotermes*, clear timber near fields cane, bait mixture 4 parts arsenic by weight, caustic soda 1 part mixed dry, add water until dissolved, for every pound arsenic add 2 gal. molasses.)
- BATES, H. W., 1864, p. 185. (Protection timber.)
- BEATTY, J., 1953, pp. 20-22. (Kansas City flood 1951 submerged termites 7 days but did not kill them; standard methods control, U.S.)
- BEESON, C. F. C., 1934, pp. 64-78. (India.) 1934a, pp. 19-25. (India.) 1941, pp. 44-90. (India, termite-proofing buildings, resistant woods, use of ants in nurseries.) 1941a, pp. 524-553. (India, termite-proofing buildings, resistant woods, use of ants in nurseries.)
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- BERGER, B. G., 1947, pp. 1-44. (Illinois; 2d ed., 1953, Illinois, structural, chemical.)
- BERKELEY, M. J., 1865, p. 453. (St. Helena.)
- BERNARD, C. (1919) 1920, pp. 28-30. (Java.)
- BONAVENTURA, G., 1953, pp. 1-12. (Italy.)
- BONAVIA, E., 1865, p. 237. (Admixture pulp American aloe with a plaster of clay and cow dung, preventive, gaol, Lucknow, India.)
- BORROR, D. J., and DELONG, D. M., 1954, p. 149. (General.)

- BRANDÃO, FILHO J. S., 1943, pp. 1-3. (Rio de Janeiro, Brazil.)
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- BROOK, A. A., 1930, pp. 71-73. (California, certified control.)
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- BRUCE, E. L., 1931, pp. 7-9. (U.S., protection forest products.)
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- BUTLER, J. E., 1948, p. 11. (Alabama.)
- CACHAN, P., 1950, pp. 1-29. (Madagascar, mechanical, chemical.)
- CHAIÑE, J., 1913, pp. 401-403. (Danger in transport in wood and furniture, France.)
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- CHAMBERLIN, W. J., 1949, pp. 11-27. (U.S., general.)
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- KUWAYAMA, S., 1935, pp. 658-662. (Buildings, Formosa.)
- LAYARD, E. L., 1866, p. xii. (James Town, St. Helena, buildings, tin cans eroded, teak not attacked.)
- LEBOELF, A., 1901, p. 306. (Zambesi, Rhodesia, coat and boots destroyed.)
- LEFROY, H. M., 1923, p. 90. (In Dr. Mitchell's Cairo-to-Cape flight, the wood skids and frame of the aeroplane were attacked in one night's halt.)
- LIGHT, S. F., 1929, pp. 1-28. (California.)
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- LONG, S. W., 1932, pp. 102-103. (U.S.)
- LYLE, C., 1927, pp. 11-16. (Mississippi, buildings.)
- MCCAIN, W. H., 1949, pp. 22-24. (Present-day problem.)
- MCDANIEL, E. I., 1920, p. 124. (*Reticulitermes flavipes*, Michigan.)
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- MARLATT, C. L., 1902, p. 5. (Rarity of books in New Spain due to white ants.)
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- MULLEN, J. A., 1942, pp. 529-530. (U.S., lead foil seals and corks wine bottles in wooden boxes on concrete floor, straw jackets on bottles alive with *Reticulitermes flavipes*, none drowned by wine.)
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- PATEL, G. A., 1949, pp. 8-9. (Gujarat.)
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- PERRY, C. M., 1947, p. 9. (Ohio.)
- PICKENS, A. L., in Kofoid, 1934, 2d ed., pp. 172-182. (*Reticulitermes hesperus*, Pacific Coast, U.S.)
- PICKENS, A. L., and LIGHT, S. F., in Kofoid, 1934, 2d ed., p. 198. (*Heterotermes aureus* in poles, California.)
- PLESSIS, See DU PLESSIS.
- POMERANTZ, C., 1954, pp. 24, 36, 38, 40. (New York, \$50,000 slab home damaged because wood stakes to hold trim were driven through gravel before concrete slab was poured.)
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1877, p. 43. (*Termes flavipes*, much damage in some parts Germany.)
1877a, p. 269. (*Termes flavipes*, U.S.)
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- ROSS, H. H., 1948, pp. 259, 499. (U.S., buildings, books, furniture.)
- ROSSI, R. T., and SNYDER, T. E., 1934, pp. 755-756. (Utility (RCA) poles, Long Island, New York.)
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- SHIPLEY, A. E., 1925, pp. 244-246. (Trinidad, books.)
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- SMYTH, E. G., 1919, pp. 126-127. (Puerto Rico, *Eutermes morio*.)
1919a, p. 138. (Puerto Rico, *Eutermes morio*, sugarcane.)
- SNYDER, T. E., 1910, pp. 1-12. (U.S., utility poles.)
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1912, pp. 1-4. (U.S., mine props.)
1915, pp. 75-76. (U.S., general.)
1916, pp. 1-32. (U.S., buildings, stored products, vegetation.)
1916a, pp. 1-20. (U.S., buildings, stored products, vegetation.)
1919a, pp. 1-16. (U.S., buildings, stored products, vegetation.)
1920*, in (Banks and) Snyder, pp. 87-213. (General.)
1920b, pp. 1110-1112. (U.S., buildings.)
1922a, pp. 69-74. (U.S., poles and telephone equipment.)
1924, p. 32. (U.S., Atlantic Coast, *Kaloterms*, poles.)
1925a, p. 389. (U.S., buildings.)
1925d, pp. 277-278. (U.S., buildings.)
1925d', pp. 253-254. (U.S., buildings.)
1925e, pp. 6-7, 12-13. (U.S., buildings.)
1925f, pp. 32-33. (U.S., buildings.)
1926, pp. 23-25. (U.S., buildings and stored material.)
1926a, p. 14. (U.S., buildings.)
1926c, pp. 1-22. (U.S., buildings, general; p. 2, map showing distribution damage by subterranean and nonsubterranean termites; revised 1939.)
1926c, pp. 14-20. (U.S., poles.)
1926g, pp. 277-280. (Metal.)
1926h, p. 254. (California.)
1927b, pp. 316-321. (Million dollar annual damage to buildings, Honolulu, Terr. Hawaii; 80% frame buildings New Orleans, La., have been damaged, 50% business buildings at Pasadena, Calif., some dangerously.)
1927f, pp. 82-83. (Buildings, U.S.)
1927h, pp. 15-17. (Buildings, U.S.)
1927k, pp. 309-314. (Buildings, U.S.)
1928, pp. 274-276. (Buildings, U.S.)
1928a, pp. 135-138. (Poles, California.)
1928c, p. 381. (*Coptotermes* dissolves lime mortar foundations by secretion from frontal gland.)
1928d, pp. 240-242. (Buildings, U.S.)
1929, p. 44. (Hawaii.)
1929b, pp. 17-28. (Pacific area.)
1929c, pp. 18-38. (General.)
1929d, pp. 143-151. (Buildings, U.S.)
1929f, p. 18. (Tropics.)
1929g, pp. 1-19. (Gulf States.)

- 1929h, pp. 154-158.
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 1929k, pp. 210-230. (Buildings, U.S.)
 1929n, pp. 96, 100, 102, 104, 106, 108.
 Buildings, poles, U.S.)
 1930, pp. 261-269, 290.
 1930a, p. 20. (Buildings, U.S.)
 1931*, pp. 531-571. (General.)
 1932, pp. 228-230. (General.)
 1932a, p. 27. (Wood, U.S.)
 1932b, pp. 25, 27, 31, 34. (Buildings, U.S.)
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 1934a, pp. 1-22. (Revision of 1926c, U.S., general.)
 1934b, pp. 5-6, 12. (U.S., buildings.)
 1935a, pp. 70-78. (U.S., buildings.)
 1935c, pp. 1-6. (U.S., buildings.)
 1935d, pp. 5-6, 28-30. (U.S., buildings.)
 1935e, pp. 106-109. (List materials damaged by termites.)
 1937, pp. 26-33. (Louisiana, buildings.)
 1938, pp. 6-9. (U.S., buildings.)
 1938, in Hyslop, p. 43. (U.S., buildings, \$40,000,000 annual damage.)
 1939, pp. 7-9. (U.S., buildings, \$40,000,000 annual damage.)
 1947b, pp. 144-147. (U.S., buildings, \$40,000,000 annual damage.)
 1948, pp. 58-59, 117-135. (Revision of 1935e, list materials damaged, pp. 58-59, 123, timber where heavy vibration not attacked.)
 1949, pp. 432-436. (U.S., buildings.)
 1949d, in Burton, 1949, p. 264. (General.)
 1950, pp. 12-14. (U.S., buildings.)
 1950a, in Craighead, 1950, pp. 87, 90-93. (Eastern U.S., buildings, general.)
 1950d, pp. 1-16. (Dry-wood and other non-subterranean termites, map northern limit damage in U.S., p. 3.)
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 1953, pp. 27-28. (U.S., buildings.)
 1953c, p. 30. (U.S., northern areas severe damage, limits damage in New England.)
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 1954b, pp. 1-64. (U.S., general.)
 1954h, in Greathouse, G. A., 1954, pp. 204-211. (World damage and control.)
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 WAND, B., 1936, p. 9. (U.S., damage grossly overestimated.)
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 1942a, pp. 1-7. (Hamburg, Germany, *Reticulitermes flavipes*.)
 1951, pp. 259-265. (Hamburg, Germany, *Reticulitermes flavipes*.)

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- WELCH, M. B., 1929, pp. 47-53. (Australia, buildings.)
- WILSON, H. B., 1952, pp. 471-472. (*Coptotermes* in buildings in Melbourne, nest in nearby tree.)
- WITHYCOMBE, R., 1928, p. 1. (Zanzibar, insulation (rubber) on cable.)
- WOLCOTT, G. N., 1921, pp. 1-14. (Puerto Rico.)
- 1927, pp. 153-162. (Haiti.)
- 1946, pp. 1-29. (Puerto Rico, *Cryptotermes brevis*.)
- WOLCOTT, G. N., and SEIN, F., 1924, pp. 138-149. (Puerto Rico.)
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DAMAGE TO LIVING VEGETATION

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- ALOI, A., 1885, pp. 89-94. (Grape vines, Catania, Sicily.)
- ANDREWS, E. A., 1916, pp. 54-72. (Tea bushes, mound-builders and subterranean termites, India.)
- 1924, pp. 118-125. (Tea bushes, *Calotermes*, Ceylon.)
- ANONYMOUS, 1871, p. 233. (Pine logs.)
- 1889, p. 293. (Tea plants, *Termes fatalis*, Ceylon.)
- 1889a, p. 340. (Trees, Australia.)
- 1892, p. 201. (Fruit trees, U.S.)
- 1897, p. 484. (Agriculture, *Termes taprobanes*, India.)
- 1898, p. 434. (Agriculture, *Termes taprobanes*, India.)
- 1914, p. 74. (Cane plants in field, *Eutermes acajutlae*, Antigua and Porto Rico.)
- 1914a, pp. 301-304. (Vines, near Bordeaux, France.)
- 1917a, p. 390. (Hawaii, *Coptotermes formosanus*, sugarcane.)
- 1918a, p. 253. (Florida, *Termes flavipes*, citrus trees.)
- 1920, pp. 206-208. (Ceylon, *Calotermes militaris*?, crops.)
- 1920a, p. 469. (Pacific Coast, U.S., prune trees.)
- 1921a, (San Tomé, *Microcerotermes dolichognathus*, cacao.)
- 1925, pp. 739-745. (Australia, sugarcane.)
- 1926a, pp. 4-5. (Australia, sugarcane, *Mastotermes darwiniensis*.)
- 1927a, pp. 86-88. (*Coptotermes acinaciformis*.)
- 1942a, pp. 3-17. (Australia, pp. 16-17, *Termes lacteus*, orchard pest.)
- 1954c, p. 910. (*Paraneotermes simplicicornis* killing Eucalyptus trees, Tucson, Ariz.)
- AULMANN, G., 1913, pp. 83-91. (Rubber trees.)
- AZEMARD, (), 1914, pp. 106-110. (Senegal, ground nuts.)
- BALLOU, C. H., 1945, p. 87. (Venezuela, plants.)
- BALLOU, H. A., 1912, pp. 74-75. (St. Kitts, cotton.)
- BANKS, C. S., 1904, pp. 1025-1026. (Philippines, cacao.)
- BATES, G., 1926, pp. 4-5. (Australia, sugarcane, *Mastotermes* in sandy soil.)
- BATHELLIER, J., 1927, pp. 121-165. (Indo-China, vegetation, crops.)
- 1933, pp. 747-750. (Indo-China, vegetation.)
- BATRA, H. N., 1942, p. 15. (*Microtermes mycophagus*, fruit, N.W. Frontier Province, India.)
- BEEKMAN, H., 1919, pp. 21-30. (*Calotermes tectonae*, teak, Batavia, Java.)
- BEELEY, F., 1934, pp. 160-175. (Kuala Lumpur, Malaya, rubber trees.)
- BEESON, C. F. C., 1941a, pp. 537-538. (India, trees in nurseries, plantations; mature rubber trees, tea bushes.)
- BELL, A. F., 1939, pp. 45-59. (Queensland, *Coptotermes acinaciformis*, minor damage to mature sugarcane, p. 52.)
- BEQUAERT, J., 1925, pp. 289-294. (Amazon, *Neotermes castaneus*, guava trees.)
- BERGER, E. W., 1918, pp. 190-191. (Sweet potatoes, Florida.)
- BOFFA, G. D., 1949, p. 65. (*Calotermes flavicollis*, *Reticulitermes lucifugus*, plants, Italy, general comments.)
- BONAVENTURA, G., 1953b, p. 893. (Italy, plane tree.)
- BONDAR, G., 1939, pp. 16-17. (*Eutermes ripertii* and *Calotermes wagneri*, subsp. *pedestans*, cacao, Bahia, Brazil.)
- BOX, H. E., 1953, pp. 56-58. (Lists termites attacking sugarcane, world.)

- BRUNER, S. C., SCARAMUZZA, L. C., and OTERO, A. R., 1945, pp. 35-36, 44, 129, 157. (Plants, Cuba.)
- BUGNION, E., and POPOFF, N., 1910*, pp. 107-123. (Rubber trees, *Coptotermes*, Ceylon.)
- BURNS, A. W., and MUNGOMERY, R. W., 1926, pp. 628-630. (Australia, giant white ant major cane pest over Lower Burdekin, in sandy soil, mixture arsenic and molasses bait; tar treatment interferes with germination; inject $\frac{1}{4}$ oz. paradichlorobenzene on both sides sets 12 in. apart, $4\frac{1}{2}$ in. deep, and 5 in. on each side.)
- BUZACOTT, J. H., 1947, pp. 135-140. (Sugarcane, *Masotermes*, etc., North Queensland.)
- 1948, pp. 136-141. (Sugarcane, *Masotermes*, etc., North Queensland.)
- BYNUM, W. M., 1951, pp. 966-967. (Citrus trees, *Paraneotermes*, lower Rio Grande Valley, Tex.)
- CAPRA, F., and GIUDINI, G. M., 1946, pp. 42-46. (Cabbage, Jerusalem artichoke, *Reticulitermes lucifugus*, Italy.)
- CARESCHIE, L., 1937, pp. 195-212. (Hevea and Kapokier, *Coptotermes curvignathus*, Indo-China.)
- CARTER, W., 1949, pp. 761-766. (Pineapple, Brazil, South America, bore into stumps, cause wilt, scattered, isolated plants, p. 764.)
- CASSIDY, T. P., ROMNEY, V. E., BUCHANAN, W. D., and YORK, G. T., 1950, p. 10. (Guayule nursery stock, *Amitermes tubiformans*, South Texas.)
- CAVARE, F., 1922, pp. 190-194. (Plants, Italy.)
- CHAINED, J., 1910, pp. 486-487. (Plants, France.)
- 1911-1912, pp. 678-680; 113-115. (Plants, France.)
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- 1919, pp. 61-67. (Plants, France.)
- 1920, pp. 250-255, 281-285. (Plants, France.)
- CHATTERJEE, N. C., 1939, pp. 15-24. (*Termes horni* collected in sandal forests, India.)
- CHIESA MOLINARI, O., 1942, p. 107. (Plants, Argentina.)
- CHOCK, Q. C., 1932, p. 124. (Rice plants, *Coptotermes formosanus*, Hawaii.)
- CIAMPOLINI, M., 1954, pp. 291-300. (Tuscany, biology and damage to living woody shrubs or trees.)
- CLAUSEN, C. P., 1913, pp. 11, 38, 41, 43, 46, 52, 77, 80, 84. (Agriculture, *Termes formosanus*, *T. vulgaris*, Japan.)
- CLEARE, L. D., 1920, pp. 115-126. (Sugarcane, British Guiana.)
- COATON, W. G. H., 1937, pp. 249-252. (Crops, harvester termite, *Hodotermes mossambicus*, South Africa.)
- 1943, pp. 346-350. (Crops, harvester termite, *Hodotermes mossambicus*, South Africa, lawns, shrubs, young trees, crops; in buildings, wall paper, carpets, curtains, etc.)
- 1948, pp. 1-19. (Grass on veldt, *Trinervitermes*, South Africa, overgrazing and effect on mound density.)
- 1948a, pp. 97-108. (Grass on veldt, *Trinervitermes*, South Africa, overgrazing and effect on mound density.)
- 1948c, pp. 259-267. (Crops, *Hodotermes mossambicus*, *Microhodotermes*, harvester termites, South Africa.)
- 1948d, pp. 1-38. (Crops, *Hodotermes mossambicus*, *Microhodotermes*, harvester termites, South Africa.)
- 1950, pp. 1-28. (Cultivated areas, South Africa.)
- 1951, pp. 263-267, 277. (Grass, *Trinervitermes*, South Africa.)
- 1954a, pp. 243-248. (South Africa, *Hodotermes* and veldt reclamation.)
- COMSTOCK, J. H. (1879), 1880, pp. 207-208. (Texas and Florida, girdling bark orange trees, guava bushes, eating out sugar cane.)
- CORBETT, G. H., and MILLER, N. C. E., 1936, pp. 1-12. (*Microtermes pallidus*, tea plants, Malaya.)
- COSAR, H. G., 1934, pp. 61-67. (Africa.)
- COSTA LIMA, A. DA, 1941*, pp. 377-387. (*Neotermes* spp., guava, Brazil.)
- CRICHTON, A., 1883, p. 461. (Young trees, Arabia.)
- CROWTHER, F., and BARLOW, H. W. B., 1943, pp. 99-112. (Tap-root cotton, Sudan Gezira, damage less on fallow land, organic matter on area increased damage, damage occurs first 2 months after sowing, loss 3% whole crop, after years fallow.)
- DAMMERMAN, K. W., 1913, pp. 1-12. (*Coptotermes gestroi*, rubber, Java.)
- 1915*, pp. 98-100. (*Calotermes tectonac*, teak.)
- 1929, pp. 22-30. (Agriculture, Malay Archipelago.)
- DEAN, H. A., 1954, pp. 79-81. (Texas, damage to citrus on recently cleared brushland by desert damp-wood termites.)
- 1954a, pp. 365-366. (Texas, *Paraneotermes simplicicornis*, damage to citrus trees on recently cleared brushland, chlordane 1 lb. or more per 50 trees effective control,

- 60 gals. of water per tree adequately dispersed the chemical.)
- DELLASUS, M., LEPIGRE, A., and PASQUIER, R., 1933, pp. 28-33. (*Reticulitermes lucifugus* and *Caloterms flavicollis*, vineyards, Algeria.)
- DESHPANDE, R. B., 1943, pp. 188-191. (India, localized areas, chillies.)
- DICK, J., 1951, pp. 99, 101. (Natal, South Africa, sugarcane.)
- DIEUZEIDE, R., 1933, p. 200. (*R. lucifugus* and *Caloterms flavicollis*, grapevines, Algeria.)
- EELING, W., 1950, pp. 1-747. (Citrus, pecan.)
- EHRHORN, E. M., 1928, p. 4. (*Coptotermes*, pepper tree, Hawaii.)
- ELLIOTT, E. C., and WHITEHEAD, F. J., 1926. (Tea plants, Ceylon.)
- ESCHERICH, K., 1911*, pp. 166-174. (Ceylon, tea, cacao, rubber.)
- FEYTAUD, J., 1915, pp. 65-68, 82-84. (Agriculture, France.)
- FLETCHER, T. B., 1920, pp. 33-314. (Crops, India.)
- FONSECA, J. PINTO DA, 1940, pp. 222-223. (Eucalyptus plantations, *Syntermes insidians*, São Paulo, Brazil.)
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- GLOVER, P. M., 1951, pp. 116-122. (India, lac.)
- GOSSE, P. H., 1851, pp. 459-463. (Jamaica, sugarcane.)
- GOUREAU, C., 1867, pp. 70-74. (*Caloterms flavicollis* and *Reticulitermes lucifugus*, shade trees.)
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- GREIG, J. L., 1937, pp. 1-31. (Lowland tea plains Malaya, Serdang, Fed. Malay States, where poor soil and bushes' stamina not maintained, extensive attack by termites.)
- GUPTA, B. D., 1950, pp. 344-345. (Bangalore, India, sugarcane.)
- HAGEN, H. A., 1885, pp. 61, 134-136. (Cambridge, Mass., *Termes flavipes*, shade trees *Acer rubrum*; earth in hothouses infested.)
- HAINES, G. C., 1935, pp. 246, 248. (South Africa, *Hodotermes*.)
- HAINSWORTH, E., 1952, p. 19. (NE. India, tea, *Caloterms*, *Termes taprobancus*.)
- HARGREAVES, H., 1948, p. 15. (Cotton.)
- HARLER, C. R., 1933, p. 268. (Tea.)
- HARRIS, W. V., 1936a, pp. 121-123. (Africa, *Hodotermes mossambicus*, *Microcerotermes parvus*, and *Microtermes*, cotton.)
- 1954, pp. 11-13. (Tropical agriculture.)
- HARTLEY, B. J., 1938, p. 87. (Cotton.)
- HEPTING, G. H., 1935, pp. 29-30. (Hardwood trees, Mississippi Delta.)
- HERRICK, G. W., 1904, pp. 28-32. (Pecan, Mississippi.)
- HEUSSER, C., 1926, pp. 355-363. ("Greenbark" of *Hevea brasiliensis* due to destruction of outer layers of bark by termites.)
- HILL, G. F., 1932, pp. 7-28. (Forest trees, SE. Australia.)
- HOFFMAN, C. H., 1942, pp. 1-20. (Elm trees, U.S.)
- HOLLOWAY, T. E., 1932, pp. 354-356. (Sugarcane, Gulf States, U.S.)
- HUBBARD, H. G., 1883, p. 36. (U.S., *Termes flavipes* does great damage at surface, girdling orange, lemon, and lime trees; eats tubers artichokes.)
- 1885, pp. 121-125. (Orange trees, U.S.)
- HUNT, E. H., 1910, pp. 196-197, 268-269. (Newly planted stumps rubber on old tapioca estates, *Termes carbonarius* strips bark off, Kuala Lumpur.)
- HUSAIN, M. A., 1935, pp. 562-564. (India, intensity termite damage to wheat; *Microtermes obesi* most harmful pest of wheat, annual average total loss of 6% and occasionally 25% germinating grain. High temperatures and low soil moisture, dried up parts underground seedlings eaten, oc-

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- HUTSON, J. C., 1923, pp. 83-87, 291-298. (Tea bushes, Ceylon.)
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- JARVIS, E., 1923, pp. 15-16. (Cane, Queensland.)
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 1926a, p. 6. (*Mastotermes*, Queensland, sugarcane.)
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 1926c, pp. 103-105. (*Mastotermes*, Queensland, sugarcane.)
 1927, pp. 85-88. (*Mastotermes*, Queensland, sugarcane.)
 1927a, pp. 18-23. (*Mastotermes* rated fourth in importance as sugarcane pest, Queensland.)
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 1926a, pp. 134-142. (Tea, Ceylon.)
 1927, pp. 19-21. (Distribution Ceylon tea *Calotermes militaris*, *dilatatus*, *greeni*.)
 1929a, pp. 307-311. (*Calotermes*, living plants, Ceylon.)
 1929b, pp. 1-11. (*Calotermes*, living plants, Ceylon.)
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- DE JONG, E., 1927, pp. 524-527. (Cotton, Belgian Congo.)
- KAISER, P., 1953, pp. 77-92. (*Anoplotermes pacificus* associated with plant roots.)
- KALSHOVEN, L. G. E., 1924, pp. 58-72. (*Cryptotermes*, tea, Java.)
 1930, pp. 1-154. (*Kalotermes tectonae*.)
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 1952, pp. 1-7. (*Neotermes*, teak.)
 1954b, pp. 59-74. (Java, survival *Neotermes* colonies in felled teak.)
- KELSEY, J. M., 1945a, pp. 69-75. (*Neotermes rainbowi*, coconut palms, Suwarro Island—North Cook Group.)
 1952, p. 5. (*Calotermes browni* in milled *Pinus radiata* and in dead wood living trees. *Coptotermes acinaciformis*, *frenchi*, and *lacteus*, introduced from Australia, in living pines and timbers, Auckland, New Plymouth, or Gisborne, New Zealand.)
- KENT, G. H., 1890, p. 283. (Mississippi, *Termes flavipes* destroying collard-stalks and roots of turnip by gradually eating out interior.)
- KING, C. B. R., 1938, pp. 28-34, 195-205, 160-166. (Ceylon, *Neotermes militaris*, tea, 17% bushes damaged over 50-year period, less than 5% infested, infestation through roots.)
- KING, H. H., 1928, pp. 1-7. (Sudan, termites caused but little crop damage.)
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- LAL, R., and MENON, R. D., 1953, pp. 1-94. (India, Burma, Ceylon, crops.)
- LEPESME, P., 1947, pp. 152-155. (Palm.)
- LEVER, R. J. A. W., 1939, pp. 17-20. (Fiji.)
- LIGHT, S. F., in Kofoid, 1934, 2d ed., pp. 314-320. (California, *Paraneotermes simplicicornis*, citrus trees.)
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- MAYNÉ, R., 1917, pp. 1-80. (Belgian Congo, cacao.)

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- MORSTATT, H., 1913, pp. 443-464. (East Africa, rubber trees.)
- MOSSOP, M. C., 1949, pp. 17-19. (Rhodesia, gardens and orchards.)
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- MUNGOMERY, R. W., 1947, pp. 35-45. (Brisbane, Australia, sugarcane, *Coptotermes acinaciformis*, *Hamitermes obtusidens*, *Rhinotermes intermedius seclusus*.)
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- NEETHLING, L. J., 1952, p. 65. (South Africa, *Trinervitermes havilandi* destroys 20% grass in dry winter.)
- NEVES, C. M. B., 1948, pp. 444-447. (Portugal, *Reticulitermes lucifugus*, cork oak, *Quercus suber*.)
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- REIS, G. S., 1934, pp. 24-30. (India, *Coptotermes curvignathus*, rubber.)
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- ROBINSON, H. C., 1905, pp. 2-12. (Malaya, *Termes gestroi*, attacking para rubber, *Hevea brasiliensis*.)
- ROONWAL, M. L., 1954, pp. 459-462. (India, damage to teak by *Odontotermes parvidens*.)
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- RUNGS, CH., 1953, pp. 61-76. (Moroccan tree, *Argania spinosa* (L.),? *Hodotermes ochraceus* Burm.)
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- SARWAR, M. S., 1940, pp. 144. (Wheat, sugarcane, maize, and fruit trees, Punjab, *Odontotermes*.)
- SCHUSTER, L., 1911, p. 65 (Teak trees.)
- SCUDDER, S. H., 1861, pp. 287-288. (*Termes frontalis*, grapevines, in hothouses, Salem, Mass.) 1867, pp. 154-157. (*Termes frontalis*, grapevines, in hothouses, Salem, Mass.) 1887, pp. 217-218. (Living plants, U.S.) 1891, pp. 15-16. (*T. flavipes*, tree ferns in tubs, hothouses, New England; also geraniums; and cabbages in gardens.)

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 1919, pp. 1-43; 5-40. (Cacao and other cultivated plants, San Thomé.)
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- SHUMAN, F., 1954, pp. 16-17. (India, wheat, full diet equips for termite battle.)
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 1926c, pp. 18-21. (Living vegetation, U.S.)
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- CRAWFORD, D. L., 1928, p. 36. (X-ray, negative results.)
- EMERSON, A. E., 1929a, pp. 722-727. (Communication among termites, vibration.)
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- 1935, pp. 235-236. (Flights, tubes, damage.)
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- 1947b, pp. 144-147. (Flights, tubes, damage.)
- 1948, p. 203. (Microphone.)
- 1950d, pp. 9-12. (Sound, blisters, pellets, plugs—dry-wood termites.)
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- 1952, p. 28. (By frass.)
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- 1925, pp. 282-287. (*Trichonympha campanula* ingests solid particles of wood for food.)
- 1925a, pp. 289-293. (Termites live indefinitely on diet pure cellulose.)
- 1925b, pp. 295-308. (Feeding habits of castes and relation to intestinal flagellates.)
- 1925c, pp. 309-326. (Symbiosis, *Termopsis* and its intestinal flagellates.)
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- HARPER'S FAMILY LIBRARY, 1831, pp. 147-148. (East Indies, winged with flour made into pastry, eaten too abundantly causes fatal cholera; Africa, winged parched.)
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1926a, pp. 334-349. (Hawaii.)
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- 1926c, pp. 17-18. (No permanent value in control subterranean termites; HCN recommended for control dry-wood termites, 12 oz. per 1,000 cu. ft.)
- 1935e, pp. 129, 146, 150, 158. (Not effective for control subterranean termites.)

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- 1949c, p. 24. (Reduced dosages for HCN fumigation buildings to kill dry-wood termites.)
- 1950, pp. 12-14. (Details fumigation buildings HCN and methyl bromide to kill dry-wood termites, precautions.)
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- 1940a, pp. 121-127. (Spherical shape conidia not due to termites.)
- 1941, pp. 146-148. (*Termitomyces* not produced for food, only tolerated in chambers termites.)
- 1942, pp. 69-86. (Combs formed of fine ligneous residues, all agarics of combs are termitophilous *Termitomyces* eaten only occasionally by termites, inconvenient commensals, expel combs *T. microcarpus* as soon as there is risk of fructification or pullulation.)
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- MARLATT, C. L., 1953, pp. 305-309. (Java, creamy balls tiny fungi-mushrooms, in nests or "concs.")
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- STELLA, E., and GHIDINI, G. M., 1942, pp. 825-831. (Soldiers of *Trinervitermes eldivensis* showed ovaries with small resting oögonia, degenerative or testes with resting spermatogonia, undifferentiated or no gonads, workers had no gonads in this species or in *Bellicositermes*, regression of gonads and evolution of sterile caste.)
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- HAMILTON, R., 1954, pp. 153-155. (Africa.)
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- NAUDÉ, T. J., 1934, pp. 1-20. (Termites in relation to veldt destruction and erosion.)
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- PENDLETON, R. L., 1941, pp. 29-53. (Analysis termite mounds in Thailand shows soils differ from local soils as to pH and occurrence of CaCO₃ together with increased replaceable bases and organic matter (from low levels?). Physically there is a higher air dry moisture content, higher pore space, more water absorption, volume expansion greater. Surrounding soils are acid pH 4.1 to 5.8,

- mounds often pH 8 or higher in lower parts. Ca content fine earth mounds higher—concretions made up 33% or 41% from base old mounds, containing 35% and 18% of CaCO_3 , although there are no known deposits of CaCO_3 available to the termites. Possibly the termites concentrate the CaCO_3 from the plant materials and this indicates use of the mound for long periods of time. Mounds average 1 per acre, allow for growing of vegetation which does not do well in arid, poorly drained surrounding soil. Judicious admixtures of mound soil enrich land, but unless widely mixed, infertile areas, often "gravelly," are left due to presence of calcareous concretions.)
- 1942, pp. 340-344. (Soils of termite mounds in Thailand have higher fertility; higher pH, plant nutrient content, more satisfactory moisture relationships, CaCO_3 concentrations near base mounds, even though built from acid soils; mounds 2 to 3 m. high, 5 to 7 m. in diameter.)
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- SEN, A., 1944, pp. 280-281. (India, soil of termites feeding on paper, wood, and cow dung particularly rich in plant-food nutrients.)
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- SNYDER, T. E., 1915, p. 85. (Relation termites to origin of hog wallows and prairie mounds, references.)
- 1948, pp. 77-78. (Lead to soil erosion in African veldt, fertility in Thailand.)
- SPELLIG, F., 1924, pp. 352-354. (German East Africa, fertility soil increased.)
- STEEL, D., 1913, pp. 429-433. (Geologic work in Belgian Congo.)
- THOMAS, A. S., 1943, pp. 149-177. (Uganda, termites have important soil-building functions.)
- THORP, J., 1949, pp. 185-186. (Effects of certain animals that live in soils, concentration calcium in mounds in Tropics by termites.)
- WÜST, J., 1932, p. 49. (Africa, turning up large amounts soil.)

HEAT, See TEMPERATURE

HUMIDITY

- EMERSON, A. E., 1938, pp. 268, 281. (Termite nest functions primarily to maintain a constant high humidity.)
- EMERSON, A. E., in Allee et al., 1949, p. 672. (Termite nest functions primarily to maintain a constant high humidity.)
- FYFE, R. V., and GAY, F. J., 1938, pp. 1-22. (Humidity of atmosphere and moisture conditions within mounds *Eutermes exitiosus*, Australia, humidity usually 95% in inner mound. Structure mound retains moisture produced by metabolism termites, and temperature maintained by termites and mound material prevents deposition of free water in central regions.)
- GEIGY, R., and ERNST, E., 1951, pp. 414-420. (Gradual increase in length life individuals *Kaloterms flavicollis* raised under increasing humidity. *R. lucifugus* and *Nasutitermes arborum*? individuals showed significant increase in length life only at 70% R.H. or higher. *Nasutitermes* worker showed greater resistance when with soldiers than when isolated. *K. flavicollis* showed greatest resistance to drying. Results correlated with humidity normal habitats.)
- GRASSÉ, P. P., and NOIROT, C., 1948b, pp. 869-871. (Climate of the termitarium and the transportation of water; 70 to 98% relative humidity in nest.)
- McKEOWN, K. C., 1944, rev. ed., p. 67. (Australia, humidity 93 to 95% in nest.)
- SNYDER, T. E., 1948, pp. 8, 54, 56, 76, 81, 85, 88, 106, 119, 153, 155, 160. (Need humidity in wood, earth, shelter tubes; humidity *Nasutitermes* in Australia at least 92% maintained because of a relatively impervious surface layer. Amount of moisture in wood directly under earth-like shelter tubes *Reticulitermes* in eastern U.S. 25%, which corresponds approximately to the humidity in mounds. Shelter tubes constructed when temperature ranges from 80° to 90° F. and relative humidity ranges from 70% upward; few tubes constructed at humidities below 50%.)

INTRODUCED

- ADAMSON, A. M., 1938, pp. 221-223. (*Coptotermes havilandi* introduced into Barbados from Java.)
- AHMAD, M., 1953, pp. 35-36. (*Cryptotermes cyanocephalus* and *Coptotermes formosanus* into Ceylon.)
- ANONYMOUS, 1864, p. 310. (Termites from Guinea introduced to St. Helena.)
1933a, p. 30. (No "invasion" eastern U.S.—Dr. T. E. Snyder.)
- (BANKS, N., and) SNYDER, T. E., 1920, p. 144. (*Cryptotermes brevis* from West Indies to U.S.)
- BROWN, A. A., in Kofoid, 1934, 2d ed., p. xxi. (*Coptotermes formosanus* in ships to California.)
- CACHAN, P., 1949, pp. 177-275. (*Heterotermes philippinensis* to Madagascar.)
- CHAINE, J., 1913, pp. 401-403. (Danger of introduction in wood and furniture.)
- CLARK, A. F., 1938, pp. 177-179. (*Calotermes insularis* and *Coptotermes lacteus* introduced into New Zealand from Australia.)
- DE MELLO, I. F., 1952, pp. 433-445. (*Cryptotermes havilandi*, Africa to Brazil.)
- DOBSON, R. J., 1918, p. 99-101. (*Reticulitermes lucifugus*, Europe to vicinity Boston (in reality a native species *R. arenicola*.)
- EHRHORN, E. M., 1915, pp. 55-56. (*Coptotermes* to Oahu, Hawaiian Islands.)
1928, pp. 4, 18. (*Coptotermes* and *Kalotermites* to Oahu.)
1934, in Kofoid, 2d ed., pp. 321-324. (*Cryptotermes* and *Coptotermes* probably introduced into Hawaii, also lists other termites, intercepted at quarantine.)
- EMERSON, A. E., 1936, pp. 410-411. (*Reticulitermes flavipes* introduced into greenhouses near Vienna, Austria, from the U.S. 1837; *Cryptotermes dudleyi* introduced into Panama (before 1890) from the Orient; *Cryptotermes brevis* introduced into buildings in Durban, Natal, before 1921; British Guiana 1920; *Heterotermes philippinensis* into Mauritius before 1933; *Coptotermes formosanus* prior to 1913 into Hawaii from China or Formosa; *Heterotermes tenuis* from tropical America into St. Helena in 1840—this last case is probably incorrect since Silvestri in 1936 described this termite as a new species, *perfidus*; in reality *platycephalus* from Australia.)
1939, pp. 1-2. ("*Coptotermes formosanus*," introduced into South Africa before 1925, is *havilandi* of Java; *Coptotermes javanicus* introduced into Jamaica is *havilandi*.)
- ESAKI, T., 1937, pp. 344-346. (*Zootermopsis angusticollis* introduced from Oregon into Japan.)
- FEYTAUD, J., 1911, pp. 154-155. (In 1797, termites present in Rochefort, in 1853 at Bordeaux, introduced.)
1924, pp. 241-244. (Both *R. lucifugus* and *flavipes* occur in France, *flavipes* from America, introduced into ports of Anis and Saintonge.)
1924b, pp. 69-73. (*R. flavipes* to Charentes, Saintonge.)
- FULLAWAY, D. T., 1926, pp. 68-88. (*Coptotermes* introduced into Hawaii from Japan, *Cryptotermes* introduced through oriental commerce about 1900.)
1929b, pp. 205, 210. (*Coptotermes* on Kauai.)
1931, p. 8. (*Coptotermes* and *Cryptotermes* on Lanai.)
- GASSIES, J. B., 1855, pp. 427-428. (Introduction termites into Bordeaux, France.)
- HARRIS, W. V., 1953, pp. 13-14. (*Cryptotermes brevis* from America, in 1939; *Heterotermes platycephalus* from Australia introduced into St. Helena—latter in 1843. Previously *C. brevis* had been found in South Africa, Belgian Congo, Sierra Leone, and, in 1951, Nigeria.)
1954d, pp. 194-197. (Europe, introduction of termites to France, England, and Germany.)
- HARROW, K. M., 1948, p. 234. (*Coptotermes* nymphs introduced into New Zealand in hardwoods from Australia.)
- JACKSON, J. R., 1874, p. xxviii. (Living termites in wood, Kew Museum.)
- KALSIOVEN, L. G. E., 1935a, p. 176. (Java, termite colony on sailing freighter.)
- KOFOID, C. A., 1934, 2d ed., pp. 18-19. (*Coptotermes formosanus* spread rapidly after introduced into Honolulu, infests wood-work steamships at Honolulu, might be introduced to Pacific Coast ports U.S.)
- KUTCHKE, G. MACM., 1936, pp. 45-48. (Probable distribution through greenhouse plants.)
- LEVER, R. J. A. W., 1939a, pp. 36-37. (Fiji, *Calotermes-Cryptotermes brevis*.)
1952, pp. 214-217. (Singapore, *Coptotermes parvulus*.)
- LIGHT, S. F., 1935a*, pp. 235-256. (Origin species in Pacific islands.)
1936*, pp. 125-126. (*Cryptotermes brevis*

- introduced in wood from Lima, Peru, to California, *pseudobrevis* (*brevis*) into South Africa.)
- McLACHLAN, R., 1869, p. xiii. (*Termes tenuis*? introduced into St. Helena.)
- 1874, pp. 15-16. (*Calotermes* to Kew from Zanzibar.)
- 1876, p. 17. (American termite (*flavipes*) in Vienna.)
- MILLER, D., 1939, pp. 57-65. (*Coptotermes acinaciformis* and *lacteus*, introduced into New Zealand from Australia.)
- 1940-1941, pp. 333-334. (*Coptotermes acinaciformis* and *lacteus*, introduced into New Zealand from Australia, also *Coptotermes frenchi*, *Calotermes insularis*, *condonensis* (*oldfieldi*, var. *chryseus*) and *Porotermes adamsoni*; *oldfieldi*, var. *chryseus* synonym of *condonensis*.)
- MOUTIA, A., 1936, p. 14. (*Coptotermes* sp. near *intermedius* (synonym of *haviandii*) introduced into Mauritius from Indo-Malaya; *Heterotermes philippinensis* from Philippines.)
- RILEY, N. D., 1943, p. 95. (*Nasutitermes costalis* introduced into England from Martinique; history other termites introduced into England.)
- SAINT, S. J., 1940, pp. 9-10. (*Coptotermes testaceus* and *Nasutitermes* sp. imported into Barbados in wallaba firewood from British Guiana.)
- SÉNESSE, P., 1947, pp. 30-32. (Introduction termites into Roussilon.)
- SNYDER, T. E., 1924c, pp. 381-384. (Origin termites Hawaii.)
- 1931*, pp. 531-579. (*Cryptotermes* of Hawaii had origin in China.)
- 1952a, p. 56. (*Zootermopsis angusticollis* found alive in Douglas fir lumber at Philadelphia shipped from Oregon.)
- 1952c, pp. 23, 26. (Nonsubterranean termites into U.S.)
- 1953, pp. 27-28. (*Zootermopsis* from Oregon to eastern U.S.)
- 1954a, p. 47. (*Zootermopsis* into eastern and central western U.S.)
- 1954b, pp. 1-64. (*Zootermopsis* into eastern and central western U.S.)
- 1954c, pp. 33-34. (*Zootermopsis* into eastern and central western U.S.)
- 1954g, p. 28. (U.S., *Cryptotermes brevis* damage to building, Washington, D.C.)
- SWEENEY, R. C. H., 1948, pp. 164-166. (*Trinervitermes*, minor (or small) soldiers in hay at bottom hedge at Croydon, Surrey, England, probably from Africa.)
- SWEZEY, O. H., 1945, p. 397. (*Nasutitermes*, *corniger* and sp. introduced into Hawaii.)
- URQUHART, F. A., 1953, pp. 292-293. (*Reticulitermes flavipes* to Toronto, Ontario, Canada, 1938, map distribution 1953.)
- 1934, p. 576. (Ontario, Canada, *Reticulitermes flavipes*, Kincardine, Bruce Co.)
- WEIDNER, H., 1937, pp. 593-596. (*R. flavipes* introduced from America to Hamburg, Germany, in wooden crates.)
- 1937a, pp. 1-2. (*R. flavipes* introduced from America to Hamburg, Germany, in wooden crates.)
- 1939, p. 40. (Infesting buildings.)
- 1942a, pp. 1-7. (Spread.)
- 1951, pp. 259-265. (Further spread, block of buildings infested.)
- 1952, pp. 829-832. (Spread since 1937, control measures.)
- 1953, pp. 191-192. (Danger to structures, figures castes, except winged.)
- WHITNEY, L. A., 1929, p. 222. (*Reticulitermes speratus* intercepted in Hawaii, from Japan, from flowering *Prunus* sp. in baggage.)

LEGISLATION

- ANONYMOUS, 1936a, pp. 6-7. (California pest control act.)
- 1936c, p. 10. (Minimum termite repair and treatment standards, U.S., California.)
- 1940b, pp. 1-16. (Termites Act, 1940, New Zealand, Regulations, 1940/320, 1942/288, require inspection and control by state; fine for noncompliance.)
- 1949a, pp. 1-16. (California termite operators minimum standards for inspections and recommendations.)
- 1950a, pp. 212-218, Appendixes I, II. (South Africa, no bark on lumber, or insect infestation; no sale or use timber infested with *Cryptotermes brevis* unless treated with wood preservative; 20 pounds fine.)
- 1953c, p. 38. (Insecticide act, U.S. Dept. Agriculture, effective Jan. 19, 1953, establishes method for renewal, clarifies provisions relating to permits for economic poisons for experimental work.)
- 1953h, pp. 28, 30, 56. (Arkansas, Florida, California, and Oklahoma pest control operators favor legislation.)
- BOWE, E. E., in Kofoid, 1934, 2d ed., pp. 743-745. (Municipal laws.)
- CHAMBERLIN, W. J., 1949, pp. 23-25. (U.S., State legislation.)

- CLARK, A. F., (1941) 1942, pp. 23-32. (New Zealand, legislation.)
1942, pp. 23-32. (New Zealand, legislation, State inspection, building termite-proof, prohibit sale infested timber, free chemical control, control mandatory.)
- CREIGHTON, J. T., 1947, pp. 36, 38, 40. (Florida, structural pest control law.)
- HARROW, K. M., 1942, pp. 47B-52B. (New Zealand, State inspection, poison-dust treatment.)
- HASSLER, K., and MESECHER, R., 1949, pp. 16, 18. (Why California code of minimum standards was established.)
- HUNT, P. J., 1950, pp. 13-16. (Violations Florida pest control law.)
- JACOBSON, W. C., and BROWN, A. C., *in* Kofoid, 1934, 2d ed., pp. 746-750. (U.S., State laws.)
- MACGREGOR, W. D., 1950, pp. 10-11. (South Africa, use of chemically treated softwoods enforced.)
- SNYDER, T. E., *in* Kofoid, 1934, 2d ed., pp. 751-752. (Federal quarantine laws.)
- 1935e. (Formosa, Japanese government prohibited use lime mortar in foundations buildings, p. 93; municipal legislation, p. 137; California, legislation, p. 139; Canal Zone, Panama legislation, p. 149; Cuba legislation, p. 150; Florida, legislation, p. 150.)
1948. (Lime mortar prohibited in foundations, Formosa, p. 153; city building codes, pp. 177-179; uniform building code, Pacific Coast, Honolulu, Hawaii, p. 179; State license for commercial operators California, Louisiana, Mississippi, Arkansas, and Alabama, p. 181; New Zealand Termites Act, inspection and control by State, breach regulations subject to fine, p. 181; Canal Zone, Pasadena, Calif., Honolulu, and Miami, Fla., prevent transportation and reuse infested lumber, p. 189; Havana, Cuba, wooden flooring in buildings prohibited, p. 189.)

USES IN MEDICINE

- BERENSBERG, H. v.P., 1907, pp. 757-762. (Africa.)
- BROOKS, R., 1763, pp. 271-272. (Properties and uses "wood lice" in medicine.)
- CLEGHORN, J., 1890, p. 528. (Mohammedans *in* Orissa, India, swallow queens alive for medicinal purposes.)
- SNYDER, T. E., 1948, p. 78. (In Puerto Rico, carton nests are burned and fumes inhaled for chest ailments; termites boiled in water and broth drunk.)

MICROPHONES

- ANONYMOUS, 1911a, pp. 853-855. (Hunting for ants with a telephone.)
- BARTON, R. C., *in* Kofoid, 1934, 2d ed., pp. 711-714. (Audioamplifying apparatus.)
- BRAIN, C. K., 1924, pp. 45-47. (Discovery in South Africa of the adaptation certain radio principles and use of microphone, presence insects boring in wood may be determined.)
- EMERSON, A. E., 1929a, pp. 725-726. (Apparatus for detection substratum communication among termites.)
- EMERSON, A. E., and SIMPSON, R. C., 1929, pp. 648-649. (Apparatus for detection substratum communication among termites.)
- ESCHERICH, K., 1911*, pp. 176-179. (Use microphone in Ceylon for detecting termites at great depth in earth and in infested houses.)
- MAIN, F., 1909, p. 350. (Telephone apparatus for detecting termites, up to distance 5 to 6 m., mounds in Tropics.)
- PENCE, R. J., 1954, pp. 27, 30. (U.S., portable listening device for detecting dry-wood termites.)
- PENCE, R. J., MAGASIN, S. J., and NORDBERG, R. G., 1954, p. 5. (U.S., electronic device developed as aid in locating insects—dry-wood termites—destructive to timber and wood products in the laboratory.)
- SNYDER, T. E., 1935e, pp. 159-160. (Field microphone not successful in detecting termites in U.S. tests.)
- 1948, p. 203. (Use of microphone in field not successful.)
- 1952d, pp. 33-34. (History of use of stethoscopes, geophones, and microphones; field apparatus unsatisfactory.)

MOISTURE

- DUNMORE, L. A., JR., and COLLINS, M. S., 1951, p. 513. (Caste differences in toleration of drying in *Reticulitermes flavipes*.)
- FYFE, R. V., and GAY, E. J., 1938, pp. 1-22. (Structure mound *Eutermes eximiosus* Australia retains moisture produced by metabolism termites, temperature and mound material prevent deposition water in central regions.)
- GEIGY, R., and ERNST, E., 1951, pp. 414-420. (Resistance to drying different genera termites, high humidity increases length life individuals; see Humidity.)
- GRASSÉ, P. P., and NOIROT, C., 1948b, pp. 869-871. (Transportation water in termitarium and climate therein.)
- MUKERJI, D., and MITRA, P. K., 1949, pp. 9-27. (Calcutta, *Odontotermes redemanni*, moisture varies little in mound.)
- SNYDER, T. E., 1948, p. 76. (Amount moisture in wood directly under shelter tubes *Reticulitermes* in eastern U.S. 25%.)
- STRICKLAND, M., 1950, pp. 373-385. (*Reticulitermes tibialis* more resistant to drying than *flavipes* or *arenicola*, latter the least tolerant to drying.)
- WILLIAMS, O. L., in Kofoid, 1934, 2d ed., p. 48. (*Reticulitermes hesperus* requires more soil moisture than *tibialis*.)

MORPHOLOGY

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- AHRENS, W., 1930, pp. 449-530. (Body articulation, skin and tracheae of the termite king.)
- 1932, pp. 516-534. (Relation between karyoplasma, zytoplasma, and deutoplasma in *Termes redemanni*.)
- 1934, pp. 187-195. (Accessory genital glands homologous to those of Blattidae and Mantidae.)
- 1935, pp. 223-302. (Female genitalia *Termes redemanni*.)
- 1935a, pp. 467-500. (Development of the "corpus luteum," *T. redemanni*, 3 empty egg follicles degenerate and bring next ripe egg close to ovariole pedicel.)
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- 1936a, pp. 230-243. (Origin royal adipose tissue.)
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- 1914a, pp. 351-364. (Mouthparts of *Eutermes*, Ceylon.)
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- 1897a, pp. 199-202. (Frontal gland, ganglia sympathetic nerves.)
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- RATCLIFFE, F. N., and CUMMINS, J. E., 1939, pp. 221-228. (Food preferences, Australia.)
- ROESSLER, E. S., 1932, pp. 357-368. (U.S., *Termopsis nevadensis*, nitrogen needs of growing termites, thrived better on pure wood and filter paper moistened with extract of Douglas fir than on pure cellulose (Whatman's filter paper, nitrate solutions slightly accelerated growth.)
- SCHMIDT, H., 1949a, pp. 140-142. (Food economy.)
- SKAIFE, S. H., 1954a, pp. 123-133. (*Amitermes atlanticus*, South Africa, food, drugs, and hormones.)
- SNYDER, T. E., 1924c, pp. 5-6. (Hunger stimulus.)
- 1935e, pp. 80-93. (Food, general.)
- 1948, pp. 93-104. (Food, general.)
- TIHON, L., 1946, pp. 865-868. (Chemical composition termite nourishment.)
- TÓTH, L., 1944-1945, pp. 7-36. (*Kalotermes flavicollis* can assimilate nitrogen from air—in 24 hours each insect can assimilate an amount corresponding to 65% of its own body weight.)
- 1949, pp. 22-29. (Nitrogen-binding by *Kalotermes flavicollis* and its symbionts.)
- TRAGER, W., 1941, p. 15. (Isoptera.)
- VISINTIN, B., 1941, pp. 27-44. (Digestion cellulose due to activity of flagellate Joenidae, *Calotermes flavicollis*.)
- 1947, pp. 290-300. (*Calotermes flavicollis*, starch in nutrition utilized as carbohydrate food, enzyme active in intestines partially freed of Protozoa, loss in weight, cellulose not digested.)
- WEBER, N. A., 1948, pp. 31-35. (African *Phidole* larvae feed on termites; interesting since Goetsch 1937 and 1947 states development soldier caste depends on termite vitamin T.)
- YONGE, C. M., 1925, pp. 242-248. (Digestion cellulose.)
- 1938, pp. 638-647. (Digestion cellulose and chitin.)

OBITUARY

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- 1929b, p. 282. (Fuller, Claude, 1872-1928.)
- 1931, p. 240. (Wasmann, Erich, 1859-1931.)
- 1935d, p. 308. (Handlirsch, Anton, 1865-1935.)
- 1937g, p. 42. (Tillyard, Robin John, 1881-1937.)
- 1940c, p. 51. (Knower, Henry McElderry, 1868-1940.)
- 1946b, pp. 3-4. (Adamson, Alastair Martin, 1901-1945.)
- 1948b, p. 3, frontispiece. (Sjöstedt, Ynge, 1866-1948.)
- 1949b, p. 45. (Imms, August Daniell, 1880-1949.)
- 1949c, p. 154. (Silvestri, Filippo, 1873-1949.)
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- CONSTANT, J. B., 1937, p. 143. (Wheeler, William Morton, 1865-1937.)
- DARLINGTON, P. J., JR., 1953, p. 372. (Banks, Nathan, 1868-1953.)
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- GEISER, S. W., 1930, pp. 133-134. (Buckley, Samuel Botsford, 1809-1883.)
- HORN, W., 1935, p. 63. (John, Oskar, 1875-1935.)
- HOWARD, L. O., 1929, pp. 142-143. (Schwarz, Eugene Amandus, 1844-1928.)
- KIRBY, H., JR., 1948, pp. 403-404. (Kofoid, Charles Atwood, 1865-1947.)
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- SNYDER, T. E., 1922, pp. 41-42. (Thompson, Caroline Burling, 1869-1921.)
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- WALKER, J. J., 1937, pp. 155-156. (Froggatt, Walter Wilson, 1858-1937.)

PARASITES

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- ANONYMOUS, 1936f, pp. 77-78. (Abdomen soldier *Macrotermes gilvus* parasitized by *Misotermes exenterans*.)
- 1938c, p. 19. ("Virus" used to control termites in Australia, proved to be arsenical.)
- ASHMEAD, W. H., 1901, p. 42. (*Caratomus* sp. supposed chalcidid parasite on *Termes flavipes*.)
- BAKER, E. W., and WHARTON, G. W., 1952, p. 56. (Termites have tropical or subtropical discozerconids (mites) as ectoparasites.)
- (BANKS, N., and) SNYDER, T. E., 1920*, pp. 116-118. (General, and fungous disease of *Reticulitermes*.)
- BELT, T., 1874, p. 181. (Epidzootic among termites, heaps of dead about, Nicaragua.)
- BRIDWELL, J. C., 1920, p. 301. (*Sclerodermus immigrans* experimentally parasitized "*Calotermes castaneus*" in Hawaii, possibly attack termites in nature.)
- BRUNELLI, G., 1950a, pp. 718-721. (Destruction oocytes of queen infested by Protozoa.)
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- BUCHLI, H. H. R., 1952, pp. 519-524. (Fungus, *Antennopsis gallica*.)
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- DESCH, H. E., 1953, p. 235. (Bacteriological methods of extermination, claimed for some proprietary products, merely direct arsenious poisons.)
- FEYTAUD, J., and DIEUZEIDE, R., 1927, pp. 161-163. (Fungous parasite *Reticulitermes lucifugus*, *Termitaria* sp. close to *T. snyderi*, southwestern France.)
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- FORBES, S. A., 1895, p. 198. (Illinois, *Entomophthora aphidis* and *Sporotrichum globuliferum* killed *Termes flavipes* in insectary.)
- GHIDINI, G. M., and MORIGGI, M., 1941, pp. 161-175. (*Gregarina ausoniae*, gregarine wormlike Protozoa in *Reticulitermes lucifugus*.)
- 1943, pp. 57-58. (*Gregarina ausoniae*, gregarine wormlike Protozoa in *Reticulitermes lucifugus*.)
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- HEIM, R., and BUCHLI, H., 1951, pp. 277-280. (Fungous parasite *Antennopsis gallica*, *Reticulitermes* sp. of Saintonge.)
- HILL, G. F., 1922a, pp. 346-347. (*Mordellistena*, n. sp., family Mordellidae, parasitic on termites, Australia.)
- HOWARD, L. O., 1901, pp. 353-360. (Big-headed chalcid fly (*Caratomus*) possibly parasite of *Reticulitermes*, p. 359.)
- KALSHOVEN, L. G. E., 1938, pp. 391-395. (Parasite of soldier of *Macrotermes gilvus*.)
- 1938a, pp. 395-397. (*Misotermes*, abdominal larvae.)
- KEMNER, N. A., 1925*, pp. 1-15. ("Larva termitovorax," a parasitic fly larva in the heads of termite soldiers, leading to distortion and the establishment of a special termite genus containing 2 species.)
- 1925b, pp. 157-163. (Further observations on the genus *Gnathotermes* established on parasitized individuals of *Termes*.)
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- KUDO, R. R., 1942, pp. 307-333. (The microsporidian *Duboscquia legeri* parasitic in *Reticulitermes flavipes*.)
- 1943, pp. 265-278. (*Nosema termitis*, n. sp., parasitic in *R. flavipes*, Urbana, Ill., bodies workers, epithelial cells midintestine, infected cells continuously sloughed off.)
- LEIDY, J., 1877, pp. 146-149. (Intestinal parasites *Termes flavipes*.)
- 1881, pp. 425-447. (Parasites, entozoic.)
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- LINSTOW, O. VON, 1900, p. 418. (New nematode in termite nest in South Africa.)
- MERRILL, J. H., and FORD, A. L., 1916, pp. 115-127. (Two new nematodes, one parasitic in native termites (heads) *Reticulitermes*, Kansas.)
- NEWMAN, E., 1841, p. 61. (Nurseries slightly overgrown with mold.)
- NOIROT, C., 1953a, pp. 11-20. (Parasitism workers leads to development of gonads, *Noditermes curvatus*, Ivory Coast, Africa, dipterous larvae.)

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- RUTLEDGE, W., 1925, pp. 187-188. (*Mermis* sp., a mermithid worm in body of *Cornitermes orthocephalus*.)
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- SCHMITZ, H., 1936b, pp. 77-78. (Myiasis in soldiers of *Macrotermes gilvus* in Java.)
- 1938, pp. 369-391. (*Misotermes exenterans*, n. gen., n. sp., a parasitic phorid fly causing myiasis in soldiers of *Macrotermes gilvus* in Java.)
- SÈGUY, E., 1953, pp. 21-28. (Diptera, Calliphoridae infesting *Noditermes curvatus*, Ivory Coast, 1 new genus, 2 new species.)
- SILVESTRI, F., 1926, pp. 3-18. (Larvae of a fly (Conopidae?) parasitic in heads *Macrotermes gilvus* causing myiasis in certain individuals, mandibular muscles are reduced, parasitized workers "myiagenes.")
- SILVIA, C., 1929, pp. 39-48. (Fungi, *Termitaria, Mattirolella*, p. 44 near *Termitaria, M. silvestrii* on *Rhinotermes marginalis*, British Guiana.)
- SKAIFE, S. H., 1954a, p. 132. (South Africa, *Termitometopia skaipei*, with *Amitermes atlanticus*.)
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- 1935e, pp. 120-121. (General.)
- 1948, pp. 136-139. (General.)
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- 1953c, pp. 40-41. (Myiasis in *Macrotermes*, Orient.)
- STEINHAUS, E. A., 1949. (Spirochaetes, p. 106; bacteria, p. 148; fungi Entomophthora, p. 325; nematodes in termites, p. 635.)
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- SWEETMAN, H. L., 1936, p. 69-70. (Fungous disease termites, *Ectomyces* and *Termitaria*.)
- TATE, P. C., 1927, pp. 54-60. (*Ectomyces calotermi*, a new genus and species of Ascomycete parasitic on *Calotermes samoanus* Holmgren.)
- 1928, pp. 77-78. (*Ectomyces calotermi*, a synonym of *Termitaria snyderi*; Tate described *Ectomyces* as an ascomycete, while Thaxter placed *Termitaria* in the Fungi Imperfecti, and considered this parasite external; Tate found haustorial cells under the integument connected with the sporodochium by a fine hypha.)
- THAXTER, R., 1895, p. 470. (*Laboulbenia hageni* on *Termes bellicosus*, var. *mossambica*, Africa, fungous parasite.)
- 1920, pp. 3-9. (*Termitaria snyderi* and *coronata*, fungi on *Reticulitermes*, U.S., and *Euterme*s, Grenada, British West Indies.)
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- CRAMPTON, G. C., 1916, pp. 244-258. (Phylogeny termites and related groups.)
- 1919, pp. 64-72. (Phylogeny termites and related groups, Zoraptera and Orthoptera.)
- 1920, pp. 105-110. (Ancestry of insects and their allies.)
- 1920b, pp. 137-145. (Terminal abdominal structures primitive Australian *Mastotermes darwiniensis*.)
- 1920c, p. 116. (Lines of descent of lower winged insects.)

- 1921, p. 99. (Phylogenetic study venation forewings termites.)
- 1921a, pp. 110-117. (Phylogenetic study venation forewings termites.)
- 1923, pp. 85-93. (Comparative study terminal abdominal structures adult alate female primitive *Mastotermes darwiniensis* with those of the roach *Periplaneta americana*.)
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- 1926a, pp. 198-248. (Comparison of neck and prothoracic sclerites throughout the orders of insects from standpoint of phylogeny.)
- 1932, pp. 19-49. (Phylogenetic study of head capsule, termites and related groups.)
- DESNEUX, J., 1904a*, pp. 146-151. (Critical of Wasmann's division genus *Termes* into genera and subgenera based on soldier caste.)
- 1904b*, pp. 278-286. (Relation of termites to Blattidae.)
- 1904d*, pp. 372-378. (Response to Wasmann—soldier caste cannot serve as basis for natural classification.)
- 1953, pp. 1-123. (Phylogeny *Apicotermes* nests.)
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- 1937, p. 56. (Phylogeny nests.)
- 1938, pp. 247-284. (Phylogeny of behavior, nests, behavior of a population, patterns hereditary.)
- 1941, p. 115. (Phylogeny.)
- 1942*, pp. 1-12. (Relations of a relict South African termite, *Stolotermes*.)
- 1943, pp. 97-118.
- 1953, pp. 101-121. (*Apicotermes*, Africa.)
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- 1908*, pp. ix+1430. (Phylogeny.)
- 1939, pp. 1-240. (Phylogeny.)
- HARE, L., 1937, pp. 459-486. (Phylogeny as evidenced by soldier mandible development.)
- HAVILAND, G. D., 1898, p. 358. (Genus *Termes* cannot be subdivided by characters common to every caste.)
- HOLMGREN, N., 1912*, pp. 129-136. (World termites.)
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- MARTYNOV, A. V., 1937*, pp. 83-150. (Wings and phylogeny termites and allied groups.)
- 1938, pp. 81-83, 147. (Derivation termites, geologic history.)
- PACKARD, A. S., 1883, pp. 326-329. (Orthoptera in relation to Termitidae.)
- RAU, P., 1941, pp. 256-259. (Cockroaches forerunners of the termites, based on behavior various species roaches.)
- SCUDDER, S. H., 1885, pp. 319-351. (Palaeodictyoptera, or affinities of Paleozoic Hexapoda.)
- SNYDER, T. E., 1926f, pp. 522-552. (General.)
- 1935e, pp. 2, 5, 18, 25, 33-34, 60, 82. (General.)
- 1948, pp. 20-25, 38, 97. (General.)
- THOMPSON, C. B., and SNYDER, T. E., 1919, pp. 115-132. (Phylogenetic origin termite castes.)
- TILLYARD, R. J., 1936, p. 655. (Are termites descended from cockroaches?)
- WALKER, E. M., 1919, pp. 267-316. (Terminal abdominal structure Orthoptera, phylogeny termites.)
- 1922, pp. 1-88. (Terminal abdominal structure Orthoptera, phylogeny, termites and Zoraptera included.)
- WASMANN, E., 1904*, pp. 370-371. (Criticism Desneux's views of division genus *Termes* based on soldiers.)
- 1905, pp. 436-449. (Phylogenetic metamorphosis East Indian termite guests.)
- WHEELER, W. M., 1904, pp. 29-37.
- ZALESSKY, G., 1937*, pp. 847-848. (Ancestors some groups of the present-day insects.)

POISON DUSTS

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- BEELEY, F., 1934, pp. 160-175. (Chemical dusts about roots young rubber trees, Malaya.)
- BRITAIN, W. H., 1925, pp. 82-87. (Calcium cyanide in control mound-building termites, India.)
- 1926, pp. 45-48. (Calcium cyanide in con-

- trol mound-building termites, India, Ceylon.)
- 1928, pp. 115-124. (Cyanogas in control of scavenger termites, India and Ceylon.)
- COATON, W. G. H., 1948b, pp. 1-18. (*Cryptotermes brevis*, South Africa.)
- DOANE, R. W., VAN DYKE, E. C., CHAMBERLIN, W. J., and BURKE, H. E., 1936, p. 412. (Dry-wood termites, California.)
- EHRHORN, E. M., in Kofoid, 1934, 2d ed., pp. 330-333. (Hawaii, dry-wood termites and *Coptotermes*, paris green.)
- FULLAWAY, D. T., 1926, pp. 68-88. (Hawaii.)
- FULLER, C., 1919a, p. 303. (South Africa, *Hodotermes*, white arsenic or corrosive sublimate.)
- HARROW, K. M., 1942, pp. 47B-52B. (New Zealand.)
- HARVEY, P. A., 1939, pp. 1-41. (California, *Kaloterme minor*.)
- HOLDAWAY, F. G., and HILL, G. F., 1936, pp. 135-136. (Australia, arsenical powders in mounds of *Eutermes exitiosus*.)
- HUNT, R. W., 1949, pp. 959-962. (California, *Kaloterme minor*.)
- JEPSON, F. P., 1929a, pp. 307-311. (Ceylon, *Caloterme* attacking tea bushes, poison dusts.)
- 1929b, pp. 1-11. (Ceylon, *Caloterme* attacking tea bushes, poison dusts.)
- 1930a, pp. 191-195. (Ceylon, *Caloterme* attacking tea bushes, poison dusts.)
- 1931a, pp. 67-69. (Ceylon, mound-building termites, Cyanogas dust effective when fresh, but not otherwise.)
- KECK, C. B., 1953, pp. 187-194. (Hawaii, poison dusts, paris green, DDT, chlordane.)
- KELSEY, J. M., 1946b, pp. 65-100. (New Zealand, dusts effective.)
- KING, C. B. R., 1938, pp. 195-205. (Ceylon, *Neotermes militaris*, tea bushes, paris green.)
- KOFOID, C. A., and WILLIAMS, O. L., in Kofoid, 1934, 2d ed., pp. 477-479. (Toxicity of dusts.)
- MAMET, R., and DUROCHER-YVON, F., 1941, pp. 59-61. (Mauritius, arsenic trioxide (As_2O_3) 40%, potassium antimoniate 5%, borax 2%, iron trioxide 53%, pulverized and kept dry; one application 5 to 10g.; repeat application after 10 days.
- Exposure furniture to sunlight several times after treatment.)
- MORRILL, A. W., 1953, pp. 274-275. (Philippines and Japan, 10% DDT dust blown into tunnels subterranean termites where soil poisons could not be used, U.S. Army installations.)
- NEWELL, R. E., 1952, p. 67. (U.S., ChlorKil 5 dust, subterranean termites.)
- PANGGA, G. A., 1936, pp. 233-265. (Philippines, dusting paris green into bodies workers and soldiers, whole colony killed by one treatment.)
- PETTY, B. K., 1946, pp. 1-16. (South Africa, dusts containing 4% DDT or benzene hexachloride unsatisfactory in field owing to inadequate penetration nests of *Trinervitermes havilandi*.)
- 1948, pp. 1-15. (Residual toxicity of DDT and BHC.)
- RANDALL, M., and DOODY, T. C., in Kofoid, 1934, 2d ed., pp. 463-476. (California.)
- RATCLIFFE, F. N., and CUMMINS, J. E., 1939, pp. 221-228. (Australia.)
- SMITH, R. H., 1930, pp. 557-560. (Historical, arsenicals, calomel; paris green, California.)
- SNYDER, T. E., 1929b, pp. 17-28. (Mid-Pacific area.)
- 1929j, pp. 1-15. (Pacific area.)
- 1929m, pp. 5-11. (California.)
- 1934a, p. 18. (Arsenicals, U.S.)
- 1935c, pp. 152, 160. (General.)
- 1948, p. 191. (General.)
- 1950d, p. 15. (Arsenicals, DDT, sodium fluosilicate, U.S.)
- SNYDER, T. E., and ZETEK, J., in Kofoid, 1934, 2d ed., p. 344. (Poison dusts, carton nests, Panama.)
- TEMPANY, H. A., 1933, pp. 297-309. (Malaya, paris green effective when used under proper supervision, rubber trees.)
- TU, T., 1954, pp. 423-429. (Formosa, subterranean termites break tubes, powdered poison, white arsenic—lime placed on right-angle parts with plinth course for posts.)
- VAN ZWALUWENBURG, R. H., 1916, pp. 42-45. (Puerto Rico, *Eutermes morio*, arsenicals, london purple quicker than paris green—more finely divided particles, p. 43.)
- WOLCOTT, G. N., 1924, pp. 3-15. (Puerto Rico, paris green, arsenate lead, calomel effective in control *Nasutitermes morio*.)

POPULATION

- ANDREWS, E. A., 1911, p. 204. (Jamaica, *Eutermes ripperti*, 631,878 termites in nest.)
- ANDREWS, E. A., and MIDDLETON, A. R., 1911, pp. 26-34. (Jamaica, *Nasutitermes* population and activity, ½ million, "traffic" 8,000 per hour.)

- ANONYMOUS, 1935, p. 178. (Australia, weighing population mound nest, calculated colony held 1,561,400 workers, 201,000 soldiers, 44,100 nymphs.)
- (BANKS, N., and) SNYDER, T. E., 1920*, pp. 113-115. (U.S., proportionate number castes in colonies.)
- BEEBE, W., 1916, pp. 114, 116. (Fauna 4 sq. ft. jungle debris.)
- BODENHEIMER, F. S., 1937, pp. 393-430. (*Neotermes tectonae*, population problems, social insects.)
- BRUES, C. T., 1946, pp. 23-24. (3 million termites in one carton nest in South America; *Nasutitermes* in Jamaica half million, "traffic" in and out of nest amounts to about 8,000 termites per hour at time greatest activity—shortly after midnight.)
- EMERSON, A. E., 1939a, pp. 287-300. (Population social insects.)
- 1945, pp. 14-19. (Population genetics.)
- 1947, pp. 337-345. (Populations undergo evolution to supraorganisms.)
- 1949, in Allee et al., p. 722. (Termite populations.)
- GAY, F. J., and GREAVES, T., 1940, pp. 145-149. (Australia, *Coptotermes lacteus* mound colony in winter.)
- GRASSÉ, P. P., 1939b, pp. 251-262. (Proportion males and females, number soldiers in a termitary.)
- GUPTA, S. D., 1953, pp. 697-704. (*Odontotermes obesus*, India, proportion workers 49%, soldiers 7.7%, nymphs 43.3% colony in non-mound-building months; in later 66.5% workers, 5.5% soldiers, 28% nymphs. Population fungus-combs has higher proportion nymphs than elsewhere.)
- HOLDAWAY, F. G., GAY, F. J., and GREAVES, T., 1935, pp. 42-46. (Australia, estimated population 4 mounds, *Eutermes exitiosus*; temperature factor in seasonal concentration, largest 1,806,500 at lowest temperature, smallest 484,300 when weather warmer—mounds of equal size.)
- LAMOTTE, M., 1947, pp. 88-90. (Population density of a savannah in Guinea less in dry season due to absence of Collembola; later predominated, followed by ants and termites.)
- SABROSKY, C. W., 1952, pp. 1-7. (U.S., colony $\frac{1}{4}$ million (*Reticulitermes*); South America, 3 million (*Nasutitermes surinamensis*); Australia, nearly 2 million (*Nasutitermes exitiosus*, pp. 5-6.)
- SKAIFE, S. H., 1954a, p. 126. (*Amitermes atlanticus*, South Africa, 40,000 in mound.)
- SNYDER, T. E., 1935e, p. 53. (United States.)
1948. (General, in Tropics, several million, p. 76; U.S., $\frac{1}{2}$ million (*Reticulitermes*, p. 84.)

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- ADAMS, C. C., 1915, p. 208. (Ant, *Aphaenogaster fulva*, preying on *Termes flavipes*, Illinois.)
- ADAMSON, A. M., 1943a, pp. 1-12. (Termites enemy honeybee (*Apis mellifera*), Trinidad.)
- ANDERSON, D. A., 1946, p. 29. (Dragonflies, U.S.)
- ANDREWS, E. A., 1911, p. 202. (Jamaica, *Eutermes ripperti*, *Camponotus hannani*, yellow red ant, predator.)
- ANDREWS, H. E., 1936, pp. 11-12. (*Tachys termiticola*, n. sp., in nest *Macrotermes gilvus*, Java.)
- ARNOLD, G., 1914, pp. 25-32. (Ants, South Africa.)
- 1915, p. 45. (*Paltothyrcus tarsatus*, foraging ant preying on termites, South Africa.)
- (BANKS, N., and) SNYDER, T. E., 1920*, pp. 118, 120-121. (General and ants.)
- BARANOV, N., 1936, pp. 646-651. (India, maggots of *Termitoloemus marshalli*, n. sp., Calliphoridae, predaceous on termite workers.)
- BATES, H. W., 1861, pp. 69-71. (Great and small anteaters, Amazon River.)
- BEEBE, W., 1914, pp. 1141-1145. (Pangolin.)
- 1918, pp. 1561-1566. (Silky anteater, British Guiana.)
- 1918a, pp. 158, 233. (Birds; termites immune from attack by army ants, British Guiana.)
- BEQUAERT, J., 1925, p. 294. (Ponerine ant (*Neoponera commutata*) preying on workers *Syntermes*, Amazon.)
- BINGHAM, C. T., 1903, pp. xix+506. (*Lobopelta*, ant, feeding on termites, British India.)
- BLAKE, C. H., 1941, p. 38. (Alates of *Reticulitermes flavipes* at Lincoln, Mass., captured by ants—*Crematogaster lineolata*, *Aphaenogaster fulva aquia*, *Lasius niger*, var. *americanus*, *Formica rufa integra*, *F. neogagates*, and *F. nitidiventris*; 2 other ants are recorded as probably plesiobiotic (symbiotic) in termitaries.)
- 1941a, pp. 91-110. (U.S., termites taken by birds.)

- BROMLEY, E. H., 1948, pp. 93-95. (Birds, Malaya.)
- BRUES, C. T., 1947, pp. 167-168. (Winged termites.)
- BUGNION, E., 1922, pp. 173-225. (Ants.)
1927, pp. 1-44. (War between ants and termites.)
- CARPENTER, G. D. H., 1919, pp. lii-lviii. (Fly, *Bengalia depressa*, attacking wingless termite.)
- CARVALHO, A. L. DE, 1942, pp. 57-89. (Central Brazil, *Peripatus heloisae*, n. sp., lives in termite hills, eats termites.)
- CHAMPION, F. W., 1934, pp. 24-33, pls. 10-13. (Pangolin, *Manis pentadactyla*, plains and foothills India, digs out termites, p. 138, pl. 57, sloth bear digs in ant hills.)
- CLELAND, J. C., 1918, p. 15. (Birds, Australia.)
- COLLART, A., 1927, pp. 249-253. (Congo, *Megaponera foetens*, when pillaging termite nest led by single individual, combats with *Myrmecaria* when returning with plunder.)
- COSAR, H. G., 1934, p. 72. (Africa, ants, birds, *Manis*, *Orycteropus*.)
- D'ABREU, E. A., 1919, p. 861. (Birds, Central Provinces, India.)
- DISTANT, W. L., 1892, pp. 48-50. (Transvaal, toads, frogs, birds, dog preying on *Termes angustatus*.)
- DITMARS, R. L., 1905, pp. 246-248. (Odd mammals.)
1907, p. 322. (Subterranean serpent *Glaucania albifrons* from Trinidad lives mostly in ant hills where it feeds on young or workers.)
1910, p. 217. (Subterranean serpent *Glaucania albifrons* from Trinidad lives mostly in ant hills where it feeds on young or workers.)
- DRACOTT, C. H., 1919, pp. 873-874. (Scorpions, India.)
- DUPLESSIS, C., 1931, pp. 1-2. (Birds and animals, South Africa.)
- EWERS, H. H., 1927, pp. 173-179, 1 pl., pp. 180-209, 1 pl., 1 text fig. (Ants and termites, thieving ants.)
- FITCH, A., 1858, p. 694. (*Termes frontalis*, association with black and red ant, *Formica rufa*, nursed and protected by this ant.)
- FLETCHER, T. B., and ENGLISH, C. M., 1920, p. 236. (India, bird eating termites, spotted owlet (*Athene brama*.)
- FORBES, H. O., 1879, pp. 4-5. (*Termes lucifugus* kept in captivity by *Formica nigra*.)
- FOREL, A., 1901, pp. 389-398. (Termite-eating ants, *lestobiosus*, *Atta tardograda*, subgenus *Euponera*; 2 n. sp. in *Monomorium*, *Pheidole*.)
1911*, in Escherich, pp. 215-228. (Ceylon, association ants and termites.)
- FULLER, C., 1918, pp. 16-20. (*Eutermes* and *Cubitermes* and the ant *Plagiolapsis custodiens*.)
1919a, p. 303. (South Africa, aardvark, *Hodotermes*.)
- GADOW, H., 1901. (*Myobatrachus* (Mexico) and *Rhinophrynus* termite-eating amphibians, p. 166; *R. dorsalis* (Mexico) eats termites, p. 185; subfamily Engystomatinae, family Engystomatidae eat ants and termites, p. 225; South African *Breuceps mossambicus* modified for purpose feeding on termite, p. 232.)
- GRANT, C., 1948, p. 14. (Snake in nests termites, West Indies, Australia, British Guiana.)
- GREEN, E. E., 1906-1907, pp. 183-184. (Fly *Bengalia* hunting winged termites at night.)
- GURNEY, A. B., 1947, pp. 154-156. (Immature stage Neuroptera, *Lomayia* with termites, U.S.)
- GWINEY, J. H., 1860, pp. 7234-7235. (African anteater *Orycteropus*.)
- HAGEN, H. A., 1879, p. 118. (15 different species birds feeding on swarm *Termes flavipes*, U.S.)
- HARPER'S FAMILY LIBRARY, 1831, p. 149. (Africa, ants, birds, reptiles, insects.)
- HEGH, E., 1922, pp. 539-593. (General.)
- HILL, G. F., 1915*, p. 110. (Larva of a Tachinid fly predacious on *Rhinotermes*, Australia.)
- HINGSTON, R. W. G., 1932, pp. 79, 292-317. (Termites, p. 79; ants and termites in Guiana, pp. 292-317.)
- HORNE, C., 1869, p. xii. (Termites eaten by birds, frogs, lizards, India.)
- IHERING, H. VON, 1896, p. 451. (Termites collected by wasps, Brazil.)
- JANVIER, H., 1928, pp. 1748-1749. (Chile, near Loncoche, peripatid *Opisthopatus blainvillei* devours *Calotermes*.)
- JARVIS, E., 1927a, pp. 18-23. (Queensland, *Camponotus nigriceps*, var. *dimidiatus*, *Iridomyrmex detectus*, and a third ant predacious on *Mastotermes*.)
- JOSEPH, C. H., 1928, pp. 223-226. (*Peripatus blainvillei* in Chile.)
1928a, pp. 285-298. (*Peripatus blainvillei* in Chile, preying on *Calotermes chilensis* in galleries in wood.)

- JUDD, S., 1902, pp. 34, 41. (Termites 1.07% food birds, Maryland farm; Aug. 3, 1898, 2 bank, 2 barn, and 3 white-bellied swallows ate 320 termites.)
- KALMBACH, E. R., 1943, p. 41. (Termites comprised 30.5% by volume stomach content armadillo in Texas.)
- KALSHOVEN, L. G. E., 1955, pp. 273-278. (Java, elaterid *Oxynterpes mucronatus* Ol., predator on *Neoterpes tectonae*.)
- KELLOGG, R., 1932, p. 138. (Tree frog, *Diaglena spatulata*, found in nest in tree at Venodio, Mexico.)
- KING, G. B., 1897, pp. 193-196. (*Termes flavipes* and association with ants, U.S.)
- KNIGHT, P., 1933, p. 24. (Termites 1.0% food of birds, Maryland.)
1939, p. 35. (Termites 1.0% food of birds, Maryland.)
- KNOWLTON, G. F., and HARMISTON, F. C., 1946, p. 384. (6 termites in 194 stomachs mountain bluebirds, U.S.)
- KNOWLTON, G. F., MADDOX, D. R., and WOOD, S. L., 1946, pp. 382-383. (185 termites in 2,191 stomachs sagebrush swift lizards, U.S.)
- MCCOOK, H. C., 1879, p. 155. (U.S., *Formica exsectoides* preying on *Termes flavipes*.)
- MCKEOWN, K. C., 1944, rev. ed., p. 68. (Australia, ant *Iridomyrmex detectus* attacks and exterminates mound nests.)
- MARLATT, C. L., 1953, p. 305. (Java, toads preying on winged termites attracted to light, climbed steps from garden to balcony.)
- MASON, C. W., 1912, pp. 1-327. (India, food of birds.)
- MÉHELÿ, L. V., 1904, p. 207. (Termite-eating frog, *Dermatonotus mulleri*.)
- MOREAU, R. E., 1935, p. 41. (Usambara, Tanganyika, termites most abundant in Lowland Zone; Guinea fowl scratch at their workings to eat them; mostly eaten by smaller birds during flight, often on damp evenings. Birds not usually insectivorous will gorge on termites. Orioles, drongos, starlings, geelgats, and Falconidae noted taking flying termites until dark.)
- MYERS, J. G., 1935, pp. 11-22. (Birds receive protection in termite nest, but to disadvantage of termites.)
- NANGLE, K. E., 1905, p. 747. (*Bengalia*, predacious fly, India; hawking flying termites 9:30 p.m., flies in large numbers, makes loud noise.)
- NEGI, P. S., 1933, p. 1020. (India, usefulness *Solenopsis geminata rufa* in destroying termites.)
- OVIEDO, DE, G. F. DE VALDÉS, 1851-1855, p. 410. (*Myrmecophaga*, great anteater, Santo Domingo.)
- PARKER, B. M., and GREGG, R. E., 1941, pp. 1-35. (Foes termites.)
- PEMBERTON, C. E., 1928, p. 147. (Thysanuran predatory on eggs and immature stages termites, Borneo, *Termes* in dead wood.)
1928a, pp. 148-150. (Nematodes associated with termites in Hawaii, Borneo, and Celebes.)
- PRELL, H., 1911, pp. 243-253. (Ants and termites, East Africa.)
- PYCRAFT, W. P., Ed., 1931, pp. 226-236. (Larva of an African elaterid, *Tetrolobus flabellicornis*, inhabits termite nests, often mistaken for queen, p. 309.)
- RICHARDS, O. W., 1953, p. 125. (Ponerine ant *Lobopelta*, India, raids nests with military precision.)
- ROMANUS, R., 1883, pp. 214-215. (Toads and bats eating termites, Rangoon.)
- ROTHNEY, G. A. S., 1919, pp. lxiv-lxvi. (Barrackpore, winged termites preyed on by mammals, reptiles, birds, frogs, insects, etc.)
- SANTSCHI, F., 1914, pp. 43-148. (Ants, East Africa.)
- SCHMIDT, H., 1950, pp. 1-37. (General.)
- SMYTHIE, E. G., 1919a, p. 138. (*Euterpes morio*, Porto Rico, enemies.)
- SNYDER, T. E., 1929a, pp. 40-46. (General.)
1935e, pp. 27, 120-127. (General; *Peripatus*, Panama, list native birds preying on termites.)
1948, pp. 139-145. (General; list native birds preying on termites, pp. 23-24, 34, 110, 139-140.)
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- USINGER, R. L., 1942, p. 159. (Termitaphididae.)
- VERNER, S. P., 1917, p. 1575. (Ant-eating animals.)
- WALLACE, A. R., 1853 (ed. 1895), p. 283. (Army ants (*Eciton*) eating termites, Amazon.)
- WASMANN, E., 1897a*, pp. 276-279. (*Polybia scutellaris* collecting swarming termites.)
1910b, pp. 97-102, 129-138, 161-181.
1915, pp. 1-413. (Living together, ants and termites.)
- WEBER, N. A., 1948, pp. 31-35. (Termite eating ant larvae (*Pheidole*), Africa.)
1949, pp. 1-9. (The ant (ponerine), *Centromyrmex*, probably an obligatory predator on termites, Equatorial Africa.)
- WHEELER, W. M., 1910, (Development soldier caste depends on vitamin T; ponerine

- ants, p. 233; *Lobopelta elongata* larvae, p. 235; *Ophthalmopone ilgii*, p. 240; *Lobopelta distinguenola*, p. 242.)
 1918. (Ants, p. 298; *Paedalgus termitolestes*, n. sp., living in termite hills, predacious, p. 301.)
 1919, pp. 174-175. (*Metapone* possibly termitophagous.)
 1921-1922, pp. 1-1139. (Ants of Congo predacious on termites.)

- 1936, pp. 159-243. (Relations ponerine and other ants to termites; termitotharpy, cleptobiosis, termitoxeny, termitolesty, list termitolestic ants.)
 WILLIAMS, F. X., 1928a, pp. 1-179. (Oriental ants prey on termites, *Odontoponera transversa* noteworthy, but colony little affected by attacks of these large ants.)
 ZIETZ, A., 1872, pp. 301-304. (*Myrmecophaga jubata*, "ant bear.")

PROTOZOA

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 ANDREW, B. J., 1930, pp. 449-470. (Method and rate of protozoan refaunation in *Zootermopsis angusticollis*, cannibalism and eating feces as they drop.)
 ANDREW, B. J., and LIGHT, S. F., 1929, pp. 433-440. (Natural and artificial production of "mitotic flares" in intestinal flagellates, *Termopsis angusticollis*, normal death rate low, large Protozoa of gut lost after molting, refaunated by feeding intestinal content from faunate nymphs. Mitotic flare at height in refaunated nymphs 3 days after molting.)
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 1926, p. 148. (Cultivation of *Trichomonas*, thermal death point, anaerobic conditions, attempts at sterilization.)
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 1906, pp. 55-62. (Parasitic castration; queens, containing Protozoa, with degenerating ovaries.)
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 1923a, pp. 424-428. (Symbiosis termites and intestinal Protozoa.)
 1924, pp. 178-201, 203-227. (Physiological and symbiotic relationships between intestinal Protozoa and host, *R. flavipes*.)
 1925, pp. 282-287. (Method by which *Trichonympha campanula* ingests solid particles of wood for food in intestines termites, p. 282. Ability termites to live indefinitely on diet pure cellulose, p. 280.)
 1925b, pp. 295-308. (Feeding habits termite castes and relation to intestinal flagellates.)
 1925c, pp. 309-326. (Effects of oxygenation and starvation on symbiosis between *Termopsis* and its intestinal Protozoa.)
 1925d, pp. 455-468. (Toxicity of oxygen for Protozoa in vivo and vitra, animals defaunated without injury.)

- 1925e, pp. 32-40. (Symbiosis with Protozoa.)
- 1926, pp. 51-60. (Symbiosis with intestinal flagellates, in Mastotermitidae, Kalotermitidae, and Rhinotermitidae; most Termitidae had no Protozoa, some cultivate fungi, eat decayed wood, or harbor intestinal fungi or spirochaetes. *Reticulitermes* defaunated by incubation died without Protozoa within 3 weeks, can live on predigested cellulose, refaunated lived indefinitely on wood. Some Protozoa (*Trichonympha*, *Leidyopsis*) more valuable to host termite than others, some (*Streblomastix*) of no value.)
- 1926a, pp. 168-170. (Problems which may be studied by oxygenation.)
- 1928, pp. 231-237. (Symbiosis with intestinal Protozoa and experiments with oxygenation. Six genera termites all died after removal Protozoa, some lived longer than others. Origin symbiosis discussed. Relation spirochaetes to host and Protozoa considered. Data on rearing termites in laboratory.)
- 1938, pp. 452-455. (Mitosis in *Pyrsonympha*, a polymastigote from *Reticulitermes*.)
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- COLE, R. M., 1947, pp. 50-52. (Morphology and phylogenesis *Mononympha* and *Xenonympha*.)
- COMES, S., 1905, pp. 199-202.
- 1910, pp. 11-19. (*Lophophora vacuolata*, n. gen., n. sp., intestinal flagellate termites.)
- 1910a, pp. 20-29. (Sexual dimorphism in *Dinenympha gracilis*.)
- 1914, pp. 15-17. (Morphology and reproduction of *Monoceromonas termitis*.)
- 1947, pp. 1-15. (Symbiosis, termites and intestinal flagellates.)
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- 1932, pp. 153-188. (*Gigantomonas lighti*, n. sp., trichomonid flagellate from *Paraneotermes simplicicornis*.)
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- CROSS, J. B., 1941, pp. 379-403. (*Oxymonas minor* from *Kalotermes minor*, percentage in sections from intestine ranges from 30.6 to 85%; life cycle.)
- 1946, pp. 67-162. (Flagellate subfamily Oxymonadinae.)
- CUPP, E. E., 1930, pp. 351-378. (*Spirotrichonympha polygrapha* from *Neotermes simplicicornis*.)
- CUTLER, D. W., 1919-1921, pp. 555-588, 383-411, 247-264. (Protozoa parasitic in hind gut *Archotermopsis wroughtoni*, *Ditrichomonas* (*Trichomonas*) *termitis*, *Joenopsis polytricha*, n. gen., n. sp.; brief notes on *Joenopsis cephalotricha*, n. sp., and *Microjoeniace axostylis*, n. sp.; *Pseudotrachomonas pristina*.)
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- 1920, pp. 44-48. (Parasitic fauna intestines of *Hodotermes viarum*, Coimbatore, India.)
- 1920a, pp. 49-50. (Trichonymphidae of India and Ceylon.)
- 1920b, pp. 1009-1022. (Trichonymphid parasites Indian termites, *Leucotermes indicola*; *Trichonympha agilis*, *Leidyia metchinkowi*, *annandalei*, *kempfi*, and *campanula*. Infusoria, *Apalina termitis*, *Balantidium termitis*, *Nyctotherus fletcheri*, *Pyrsonympha grassei* and *Franciella termitis*.)
- 1920c, pp. 189-198. (Trichonymphidae of the intestine of *Archotermopsis wroughtoni*.)
- 1921, pp. 101-136. (Trichonymphidae of the intestine of *Leucotermes indicola*.)
- 1921a, pp. 161-167. (Trichonymphidae of Prof. Bugnion's termites of Ceylon.)
- 1927, pp. 1-28. (Revision Trichonymphidae *Leucotermes indicola*.)
- 1928, pp. 239-263. (Revision Trichonymphidae *Leucotermes indicola*.)
- 1929, pp. 582-598. (Trichonymphid in intestines Indian *Leucotermes indicola*, complexity of mitosis.)
- 1937, pp. 1353-1381. (New trichonymphid flagellates Indian termites; so specific in

- host that termites could be identified by flagellate fauna.)
- 1941, pp. 75-94. (*Devescovina*, flagellates in intestines Indian termites.)
- 1941a, pp. 1-25. (*Spirotrichonympha* parasite of *Hodotermes viarum*, Coimbatore, India.)
- 1942, pp. 1-26. (Morphology and classification big trichonymphid parasite intestine *Hodotermes viarum*.)
- 1942a, pp. 1-10. (Parasites *Hodotermes viarum* from Coimbatore.)
- 1942b, pp. 1-16. (Two trichomonads from intestine *Hodotermes viarum* from Coimbatore, *Trichomonas egasomonizi* and *sokheyi*, n. spp.)
- 1946, pp. 29-52. (Intestinal Protozoa of an Indian *Cryptotermes*.)
- 1946a, pp. 53-80. (Intestinal Protozoa of an Indian *Cryptotermes*, further studies.)
- 1949, pp. 71-74. (*Holomastigotoides operculatum*, n. sp., parasite of a wood-eating termite from Dharwar.)
- 1950, pp. 53-56. (An amoeba, *Vahlkampfia beltrani*, in intestine of an Indian *Coptotermes*; first record of this genus from termites, known previously to be host to only 7 species of *Entamoeba*.)
- 1952, pp. 433-445. (*Devescovina* in *Cryptotermes havilandi* in Brazil.)
- 1952a, pp. 100-103. (Flagellate *Trichomitus cunhai* in African *Cryptotermes havilandi* in Brazil.)
- 1953, pp. 65-72. (Oxymonad of the African *Cryptotermes havilandi* in Brazil.)
- 1953a, pp. 47-50. (Brazil, *Stephanonympha lindoya*, intestinal parasite in *Rugitermes*, n. sp.)
- 1953b, pp. 55-69. (Brazil, 2 new species of *Foaina* from *Cryptotermes havilandi*.)
- 1953c, pp. 251-260. (Brazil, *Oxymonas*, n. sp., from *Neotermes hirtellus*.)
- 1954, pp. 24-29. (Brazil, *Pseudotriconympha sertaneia* from *Rugitermes* sp.)
- 1954a, pp. 30-33. (Brazil, *Stephanonympha*, n. sp., from *Neotermes hirtellus*.)
- 1954b, pp. 71-78. (Brazil, *Snyderella yptranga*, n. sp., in *Rugitermes rugosus*.)
- 1954c, pp. 167-176. (Brazil, flagellates of *Rugitermes rugosus*.)
- 1954d, pp. 49-56. (Polyastigina parasites of *Cryptotermes havilandi*, Brazil.)
- 1954e, pp. 345-351. (Amoeba *Endolimax* parasite of *Cornitermes cumulans* (Kollar) São Paulo, Brazil.)
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- 1944, pp. 205-227. (First Indian species of *Proboscidiella* from an Indian *Cryptotermes*.)
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RACKET

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- 1936l, pp. 8-9. (Termite question further discussed.)
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- HSIU, C., 1935, pp. 618-620. (Improved breeding apparatus for termites.)
- IMMS, A. D., 1913, p. 241. (Exhibition of living termites.)
- JUCCI, A., 1936, pp. 302-306. (Rearing *Reticulitermes lucifugus* in test tubes.)
- 1937a, pp. 28-29. (Rearing *Reticulitermes lucifugus* in test tubes, in adult stage.)
- LIGHT, S. F., and WEESNER, F. M., 1947, pp. 131-132. (Methods of culturing termites, sawdust, agar in small jars; dependent on fungi.)
- LÜSCHER, M., 1949, pp. 158-165. (Adamson's rearing device, *Reticulitermes*, *Zootermopsis*, *Kalotermes*.)
- 1949a, pp. 269-271. (Laboratory rearing technique, in waterproof nests between glass plates, constant high humidity.)
- 1950b, p. 357. (Colony formation, *Pseudacanthotermes spiniger*, *Microcerotermes edentatus*, and *Anoplotermes* sp., 8 months in laboratory in shallow glass cages; flight, courtship, egg laying, hatching, number individuals, young colonies.)
- 1951, reprint, pp. 1-6. (Reagent jars, glass slides.)
- 1951b, pp. 404-408. (Removal adult sexual pairs *Kalotermes flavicollis* for 24 hours results in development substitute sexual forms from 7th stage larvae and nymphs. Sexual adults secrete substance which suppresses normal development substitute forms.)
- MATHUR, R. N., 1950, p. 224. (Tortricid larvae destroying fungus garden in laboratory, India.)
- SKAIFE, S. H., 1951, pp. 44-52. (Artificial nest, *Amitermes atlanticus*, South Africa.)
- 1954a, pp. 123-133. (Same, mound on glass plate base.)
- SNYDER, T. E., 1915, pp. 20-22. (Outdoor termitarium rearing *Reticulitermes*, small tin boxes, vials, glass jars, between glass slides.)
- 1920*, in (Banks and) Snyder. (Glass jar, p. 170; block wood, dry-wood termites, pl. 19.)
- 1920a, pp. 135-145. (Breeding and cross-breeding of *Reticulitermes* in laboratory.)
- 1931*, pp. 554-556. (Breeding and cross-breeding of *Reticulitermes* in laboratory, Erlenmeyer flasks, pl. 27, fig. 24.)
- 1935e, pp. 59-63. (Breeding and cross-breeding of *Reticulitermes* in laboratory.)
- 1948, pp. 68-72. (Breeding and cross-breeding of *Reticulitermes* in laboratory, progeny all types reproductives and crosses within species same—true in nature.)
- SNYDER, T. E., and POPENOE, E. P., 1932, pp. 153-158. (Breeding and cross-breeding of *Reticulitermes* in laboratory, progeny all types reproductives and crosses within species same—true in nature.)
- SWEENEY, R. C. H., 1948, pp. 164-166. (Artificial termitaria.)

REGENERATION

- RICHARD, G., 1950, pp. 13-16. (*Calotermes flavicollis*, regeneration of feet.)
WEYER, FR., 1935, pp. 648-672. (Regeneration

of epithelial tissue in midgut *Microcerotermes amboinensis* and *Macrotermes gilvus*.)

RESISTANT WOODS

- ADAMSON, A. M., 1937, pp. 141-149. (Trinidad, British West Indies.)
AGUILAR, L., 1941, pp. 247-256. (Resistance to decay and termites determined by "graveyard tests" in Philippines, 182 species. Ipil (*Intsia bijuga*) taken as standard, with relative durability of 100 and average life of 11.5 years. Ten woods more durable than ipil and 2 equally so; 25 very durable species—80% and up; 26 durable—40 to 79%; 34 moderately durable—21 to 39%; 47 perishable—10 to 20%; and 50 very perishable—10%.)
AHERN, G. P., 1901, p. 91. (Philippines, "dinglas," "molave," "ipil," "yacal" resistant; California redwood and white cedar resistant after 30-day test.)
ANDREW, D., 1919, pp. 203-204. (Australia.)
ANONYMOUS, 1919b, p. 18. (World.)
1921, pp. 290-295. (Australia.)
1934c, pp. 337-341. (Indian timbers.)
1934-1953, 1953, pp. 7, 9, 11, graphs 6, 8, 10. (State Highway Dept., Mississippi, guard rail untreated, native guard rail 8" to 10" round posts, eastern red cedar (*Juni-perus*), service 1937-1953, 60% serviceable, another series, 1939-1953, 80%; black locust 1938-1953, 80% serviceable.)
1936d, pp. 12-13. (Australia.)
1936m, p. 309. (North Rhodesia, "Kajatenhout" (*Pterocarpus angolensis*) and "umkusu" (*Baikiaea plurijuga*) resistant.)
1943a, pp. 1-18. (Insect defects in timber for aircraft, etc.)
1945b, pp. 22-37, ("Iroko" (*Chlorophora excelsa*) and "opepe" (*Sarcocephalus diderrichii*) resistant to termites, p. 35.)
1946a, pp. 195-197. (N.S. Wales, jarrah (*Eucalyptus marginata*), cypress pine (*Callitris* spp.), and California redwood (*Sequoia sempervirens*) resistant.)
1949l, p. 54. (Australia, 5 native hardwoods in order decreasing resistance to *Nasutitermes exitiosus*: *Tristania conferta*, *Eucalyptus acmenioides*, *E. microcorys*, *E. maculata*, and *E. pilularis*, laboratory tests.)
1950, pp. 1-4. (Australia, denser Eucalypts; cypress pine.)
1950a, pp. 166-170. (South Africa.)
1950d, p. 62. (Australia, in order of decreasing resistance to *Coptotermes lacteus* were same hardwoods as tested in 1949, laboratory tests.)
1950e, pp. 1-5. (U.S., comparative resistance to decay.)
1951c, pp. 64-65. (Australia, *Eucalyptus alba*, in laboratory tests, showed same resistance to *Nasutitermes* and *Coptotermes* as *E. resinifera*; in order of decreasing resistance are: *Syncarpia laurifolia*, *Eucalyptus paniculata*, *E. tereticornis*, *E. crebra*, *E. grandis*, and *E. micrantha*.)
1952d, p. 67. (Australia, timber grown in plantations of exotic pines such as *Pinus radiata*, *P. taeda*, *P. patula*, and *P. caribaea* all very susceptible to termite attack.)
ARDAGH, F. D., 1930, pp. 341-350. (India.)
ASSMUTH, J., 1913a, pp. 372-384. (India, teak.)
BATERDEN, J. R., 1908, pp. 267-268. (General, pp. 267-268, cypress pine resistant in North Australia, some eucalypti somewhat resistant.)
BATES, H. W., ed., 1864, p. 186. ("Acapu," Amazon.)
BATHIELLIER, J., 1933, pp. 747-750. (Indo-China, camphor, jak fruit (*Artocarpus*) immune; rosewood, teak, ebony, most dipterocarps, and cypress, resistant.)
BAVENDAMM, W., 1948, p. 327. (Teak.)
1948a, pp. 137-144. (Resistance tropical woods.)
BERRY, A. G. V., and CATER, J. C., 1941, pp. 179-180. (*Manilkara bidentata*, "balata," and *Tabebuia serratifolia*, "poui," two most durable woods in Trinidad, becoming scarce.)
BIANCHI, A. T. J., 1932, pp. 101-147. (Resistance Dutch East Indian timbers.)
BLAKE, C. H., and RUSSELL, H. D., 1944, pp. 1-356. (List of woods by countries immune to termite attack.)
BROOKS, R. L., ADAMSON, A. M., BAKER, R. E. D., and CROWDY, S. H., 1941, pp. 101-119. (Trinidad, most durable woods balata and poui becoming scarce, 34 spe-

- cies tested against decay and termites, most resistant balata, bois mulatre, guatecare, poin, and redwood, most destructive termites *Heterotermes* and *Coptotermes*. No evidence association termites and fungi in destruction, independent agents.)
- BRUSH, W. D., 1939, pp. 1-11. (Philippines, the Luans, also similar woods from other countries.)
- BUHAY, R., 1936, pp. 160-178. (Relative durability some American woods.)
- CACHAN, P., 1950, pp. 14-15. (Madagascar.)
- CARTER, W., 1936, p. 132. (Redwood (saw-wood) from high-pressure water pipe buried in ground seriously damaged by *Coptotermes formosanus*, Hawaii.)
- CHAMBERLIN, W. J., 1949, pp. 11-27. (U.S.)
- COSAR, H. G., 1934, pp. 68-70. (Africa, large series native woods.)
- COX, C. L., 1935, p. 23. (Kaduna, Nigeria.)
- DADSWELL, I. W., and DADSWELL, H. E., 1931, pp. 208-216. (Relation between durability and extractives of the cypress pines (*Callitris* spp., Australia.)
- DAMMERMAN, K. W., 1919, p. 42. (East Indies, *Eusideroxylon swageri*, Borneo teak, *Afzelia nalembanica*, and *Cinnamomum camphora* resistant to most termites.)
- DANCE, C. D., 1881, p. 159. (*Simaruba amara* not attacked by wood ants, British Guiana.)
- DE LEON, D., 1952, pp. 84, 89. (Pacific Coast termites in redwood and bigtree.)
- DOVER, C., 1931, pp. 341-351. (Comparative resistance Indian timbers to termites.)
- DOVER, C., and MATHUR, R. N., 1934, pp. 3, 20. (Method testing susceptibility timbers to termite attack, India.)
- DUFF, C. E., 1935, pp. 69-75. (Durability trials native timbers copper belt, North Rhodesia.)
- 1944, pp. 160-162. (Durability trials native timbers copper belt, North Rhodesia, 7 local timbers sound, untreated for 11 years.)
- EHRHORN, E. M., 1934, p. 364. (*Coptotermes formosanus* and *Cryptotermes piceatus* eating redwood, Hawaii.)
- ELLIS, B. R., 1936, p. 22. (Tidewater red cypress resists termites for over 300 years at St. Augustine, Florida.)
- ERDTMAN, H., 1949, pp. 305-310. (Insect repellent properties heartwood extractives of conifers, pinosylvin, Scotch pine; sesquiterpene ketone, *Cedrus*; *Podocarpus*, Taxodiaceae, *Sequoia*, *Cryptomeria*, *Cunninghamia*, Cupressaceae, *Taxus*, *Torreya*, durable, contain toxic compounds.)
- FOXWORTHY, F. W., and WOOLEY, H. W., 1930, pp. 1-60. (Durability Malayan timbers, no wood tested immune to termites; 21 species tested over 10-year period.)
- FRENCH, C., 1893, p. 141. (Australia, *Cedrus deodora*, India, and *C. atlantica*, North Africa, immune, red less susceptible than white.)
- FROGGATT, W. W., 1905, pp. 632-656, 753, 774. (Australia.)
- 1905a, pp. 43-44. (Red pine more resistant than clear, "jarrah" resistant, sawed desert cypress, Australia.)
- FULLER, C., 1921, pp. 142-147. (South Africa.)
- 1924a, pp. 81-104. (South Africa, resistance tests timbers.)
- GROENOU, H. B. VAN, RISCHEM, H. W. L., and BERGE, J. VAN DEN, 1951, pp. 19-20. (List resistant woods.)
- HADDEN, F. C., 1928, pp. 13-14. (*Odontotermes formosanus* attacking camphor, Formosa.)
- HAGEN, H. A., 1855*, pp. 1-144. (European cypress, *Cupressus sempervirens*, attacked by termites, Rochefort, France, p. 133.)
- HAGEN, W. VON, 1942a, pp. 539-542. (Termites bore in heartwood mahogany trees from roots to top branches; over 40% trees on Mosquito Coast affected.)
- HAINES, H. H., 1938, p. 32. (Ten species termite-resistant woods, American Tropics.)
- HAWLEY, L. F., FLECK, L. C., and RICHARDS, C. A., 1924, pp. 699-706. (Relation between durability and chemical composition of wood.)
- HENIUS, F., 1942, pp. 390-394, 426. (Oriente, durable woods, mahogany (caoba aguana, not *Swietenia*); red cedar, itauva (stone tree), compares with teak. Huagapu not attacked by insects; marupa, bitter taste, not eaten by ants. Paulo de sangre, but has twisted grain.)
- HILL, G. F., 1932, pp. 7-28. (Australia.)
- HOPKINS, A. D., 1903, pp. 39-40. (Redwood not attacked by termites at Manila, P.I.)
- HOWARD, C. W., and THOMSEN, F., 1907-1909, pp. 85-93, 1907; pp. 512-520, 1909; pp. 86-87, 1909. (Untouched by termites for 3 years in Distr. Pretoria, Transvaal: Leadwood, *Combretum prophyrolepsis*, black ironwood, *Olea laurifolia*, and "vaalbosch," *Brachylaena discolor*.)
- HUBERT, E. E., 1931, p. 464. (Relation durability to specific gravity.)
- HUMPHREY, C. J., 1915, pp. 204-209. (Tests on durability of greenheart.)
- 1916, pp. 80-92. (Tests on durability of greenheart, in laboratory.)

- HUTSON, J. C., 1932, pp. D111-D121. (Ceylon, California redwood attacked; *Hopea odorata* and *Xylia dolabriformis* not attacked.)
- JACK, R. W., 1913, pp. 1-16. (Rhodesia.) 1913a, pp. 393-407. (South Rhodesia; "mopani," *Copaifera mopani*, resistant.)
- JACKSON, W. F., 1954, pp. 207-208. (Malaya.)
- KALSHOVEN, L. G. E., 1952a, pp. 188-190. (Java, *Coptotermes*, *Macrotermes*, *Odonotermes*, *Microtermes*, and *Euterms* preferences for cardboard, *Ricinus*, manihot, and maize stalks, newspaper and split bamboo; teak bark not attacked.)
- KAMESAN, S., 1936, pp. 93-113. (India.)
- KANEHIRA, R., 1914, pp. 23-41. (Relative resistance woods to termites, Formosa.)
- KEMP, P. B., 1951, pp. 122-123. (Susceptibility woods to termites, East Africa.)
- KIRKPATRICK, T. W., 1944, pp. 1-31. (Insect damage to East African timbers.)
- KITAJIMA, K., 1933, pp. 100-102. (Laboratory tests on durability of Japanese coniferous woods against decay: *Thujopsis dolabrata* most durable, *Larix leptolepis*, *Cryptomeria japonica*, *Chamaecyparis obtusa*, *Pinus koraiensis* very durable.)
- KOFOID, C. A., and BOWE, E. E., in Kofoid, 1934, 2d ed., pp. 517-539, 554-563. (Termite resistivity, chemical extractives in wood in relation to termite attack, extractive tests, U.S.)
- KRISHNA, S., and NARAYANAMURTI, D., 1951, p. 271. (India, sal (*Shorea robusta*) resistance due to chemical extractives in heartwood, soluble in hot water and alcohol. Tests of 200 species of Indian timbers indicate that they can be divided into 5 different classes of resistance. *Artocarpus gomiziana* from Andamans and teak (*Tectona grandis*) also resistant to marine borers, former 10 years at Chatlam, latter 5 to 9 years according to location.)
- LAGRIMAS, M., 1939, pp. 259-265. (Philippines, seasoned heartwood redwood in ground had life $6\frac{1}{2}$ to $35\frac{1}{2}$ months; average only 656 days, 15.6% as durable as ipil (*Intsia bijuga*), in termite-infested ground.)
- LEVER, R. J. A. W., 1934, p. 13. (Solomon Islands, local resistant timbers.)
- LIGHTFOOT, G., 1938, pp. 21-22. (Australia, technique used in testing resistance material to attack by termites.)
- MACGREGOR, W. D., 1950, pp. 33-39. (Africa, British West Indies. Guiana, Honduras, Fiji, Malaya, North Borneo, Sarawak.)
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- MARCHIÁN, F. J., 1946, pp. 135-151. (Lignin, ash, protein content 43 species temperate, subtropical, tropical woods, relationship between lignin, ash, and protein content and resistance to termites.)
- MILLER, N. C. E., 1941, pp. 23-25. (Dry-wood termites attack on sepetir, *Sindora* spp., used for furniture, Malaya.)
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- OSHIMA, M., 1919, pp. 347-374. (Formosa, termite resistant woods, relationship to resistance physical properties wood and chemical extractives.)
- PAINTER, R. H., 1951, pp. 487-488.
- PARKER, W. B., 1911, pp. 422-423. (California redwood attacked by *Termes lucifugus*, California.)
- PESCOTT, E. E., 1947, p. 6. (Australia, cypress pine, brush box, raspberry jam wood (*Acacia acuminata*) termite resistant.)
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- RECORD, S. J., and HESS, R. W., 1943, pp. 1-640. (Durable American woods.)
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- 1924a, pp. 14-15. (Tests of resistant woods in ground, U.S. and world species.)
- 1926i, pp. 2-3. (Resistance tests in Panama.)
- 1931*, p. 547. (General.)
- 1932a, p. 27. (Food (wood) preference.)
- 1935e, pp. 91-92, 150. (General.)
- 1948, pp. 152-153. (No wood immune; teak, sal, Burma and India; cypress, pine, Australia; Oriental camphor wood; Spanish cedar and mahogany, Central America; tidewater red bald cypress of southern U.S., foundation grade redwood of the Pacific Coast of the U.S., junipers of the U.S. and pitchy longleaf pine of the Gulf States, U.S. Heartwood alone is resistant, chemical extractives render the wood resistant.)
- 1950c, p. 205. (South America, greenheart and the legumes, wallaba and mora.)
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- TROTTER, H., 1929, pp. 376-382. (Indian timbers.)
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- WOLCOTT, G. N., 1924, pp. 1-15. (Comparative resistance woods to attack by *Cryptotermes brevis*, in laboratory, Puerto Rico.)
- 1938, pp. 83-84. (Comparative resistance woods to attack by *Cryptotermes brevis*, in laboratory, Puerto Rico; red cedar and cypress not resistant.)
- 1940a, pp. 1-10. (Relative resistance, grouping of woods.)
- 1945, pp. 115-129. (The algarrobo (*Hymenaea courbaril*) more resistant to *Cryptotermes brevis* than mahogany.)
- 1946, pp. 1-29. (Use resistant woods in construction.)
- 1946a, pp. 121-134. (Factors in natural resistance, high lignin content, high resin content.)
- 1946b, pp. 329-334. (Relative resistance grouping.)
- 1947, pp. 124-129. (Teak and mahogany have high lignin content (not digestible), cypress contains repellent gum.)
- 1948, pp. 53-54. (Resistance Central American woods to *Cryptotermes brevis*.)
- 1950b, pp. 1-26. (An index to the termite-resistance of woods.)
- 1951, pp. 263-264. (Extractives from teak, pine, tectoquinone (beta-methylanthraquinone) and pinosylvin.)
- 1951a, pp. 17-18. (Pinosylvin (3, 5-dihydroxystilbene), stilbene toxic to termites, "Toxaphene" (Hercules Powder Co.) contains minute pinosylvin-chlorinated camphene, southern pine heartwood; "Ryania" from Venezuelan tree or shrub, *Ryania speciosa* (Merck and Co.), toxic to termites.)
- 1953, pp. 374-375. (Pinosylvin is a stilbene, toxic to termites.)
- 1953b, pp. 224-227. (Neither hardness nor high lignin content renders wood resistant to dry-wood termites, but some specific chemical constituent.)
- 1954, pp. 115-122. (Puerto Rico, bald cypress, Osage orange, U.S., West Indian mahogany.)
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RESPIRATION, See GASEOUS ENVIRONMENT

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- 1950a, pp. 383-384. ("Our enemy the termite," T. E. Snyder, rev. ed., 1948.)
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- PENDLETON, R. L., 1948, pp. 361-362. ("Our enemy the termite," T. E. Snyder, rev. ed., 1948. Damage not likely to be catastrophic.)
- RICHARDSON, H. H., 1936, p. 159. ("Our enemy the termite," T. E. Snyder, 1935.)
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- 1927, p. 25. ("Existe-t-il plusieurs races de *Reticulitermes lucifugus* Rossi?," J. Feytaud, 1925. Races due to differences in environment.)
- 1928b, pp. 15051-15052. ("La vie des termites," M. Maeterlinck, 1927. Interesting but not scientifically correct.)
- 1937a, p. 240. ("Termite city," A. E. Emerson and E. Fish, 1937. Biology of termites of British Guiana.)
- 1951c, p. 65. (Insects in your life, C. H. Curran, 1951. "Northerly spread of termites," and "shun bright light," disputed.)
- STANFORD, E. R., 1948, p. 775. ("Our enemy the termite," T. E. Snyder, rev. ed., 1948.)
- TURNER, N., 1936, p. 223. ("Our enemy the termite," T. E. Snyder, 1935.)
- WADE, J., 1936, p. 172. ("Our enemy the termite," T. E. Snyder, 1935. Background 26 years practical experience.)
- WANDOLLECK, B., 1902, p. 461. ("Monographie der Termiten Afrikas," Y. Sjöstedt, 1900.)
- WASMANN, E., 1902i, pp. 714-717. ("Monographie der Termiten Afrikas," Y. Sjöstedt, 1900.)
- 1909*, pp. 216-224. ("Die Termiten oder weissen Ameisen," K. Escherich, 1909.)
- 1910*, pp. 303-310. (Nils Holmgren's new studies of termites and his exudate theory.)
- 1911b*, pp. 394-412, 425-434. ("Termitenleben auf Ceylon," K. Escherich, 1911.)
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- WEESNER, F. M., 1949, pp. 69-70. ("Our enemy the termite," T. E. Snyder, rev. ed., 1948. Objects to terminology of reproductive types.)
- WHEELER, W. M., 1911, pp. 530-534. ("Termitenleben auf Ceylon," K. Escherich, 1911.)
- 1936a, pp. 27-28. ("Our enemy the termite," T. E. Snyder, 1935. Succinct and authoritative.)
- WOLCOTT, G. N., 1953a, p. 539. ("Australian termites," F. N. Ratcliffe, F. J. Gay, and T. Greaves, 1952. Based on G. F. Hill's studies (1942), simplified for economic worker, control not adequate nor up-to-date.)

RHYTHM, COORDINATED

ANDREWS, E. A., and MIDDLETON, A. R., 1911, pp. 26-34. (Rhythmic activity in termite nests (*Nasutitermes morio*) Jamaica,

"traffic" in and out of nest, 8,000 per hr. at time greatest activity—shortly after midnight.)

- BRYK, F., 1927, pp. 1-3. (Children make rhythmic noise by hammering with sticks upon wood, producing sound as of pattering rain to lure *Odontotermes* to swarm into trap for food for natives in East Africa, at foot of Mount Elgon.)
- BUGNION, E., 1913c, pp. 125-139. (Sound produced in rhythm, India.)
- BUXTON, P. A., 1923, pp. 271-273. (Freetown, Sierra Leone, altitude 500 feet, small numbers winged termites emerging at 1 p.m. from subterranean nest under stones in shady spot, June 18. Ground near mouth of nest covered with thousands of small soldiers and small numbers large soldiers—over radius 3 feet. All were making a rhythmical sound, resembling noise made by sand falling on brown paper, by tapping their heads on dead leaves on which they were standing. Sound produced in perfect time at rate of 48 beats per minute. *Acanthotermes militaris*. Impulse auditory, not due to a mechanical vibration in case termites standing on many different dead leaves over a considerable radius.)
- CONNOR, F. P., 1933, p. 1018. (Rhythmic sound, termites at work, India.)
- GOUNELLE, E., 1900, pp. 168-169. (Sounds produced by large number termites tapping heads on dried leaves of Bromeliads in Brazil, like a pinch of sand hitting paper.)
- SNYDER, T. E., 1926f, p. 536. (Rhythmic synchronous swarming of termites, *Reticulitermes*, U.S.)
- THIYAGARAJU, A. S., 1934, p. 745. (India, rhythmic sound.)
- WILLIAMS, C. B., 1922, pp. 173-176. (Discusses Gounelle's note and states that the movement (tapping) is apparently not rhythmic, p. 174.)

SECRETIONS

- ANONYMOUS, 1933, pp. 8-9. (Chemical warfare by termites.)
- BATHELLIER, J., 1922a, pp. 399-403. (Nature of the glue of *Euterms*.)
- 1927, pp. 125-365. (Indo-China, secretion nasutiform soldier for defense.)
- BIDIE, G., 1882, p. 549. (Erosion of glass by termites.)
- BUGNION, E., 1927, pp. 1-44. (Protection against ants.)
- BUGNION, E., and POPOFF, N., 1910*, pp. 107-108. (*Coptotermes travians*, Ceylon, secretes a latex in frontal gland soldier.)
- COOK, O. F., 1900, pp. 516-521. (Nasutiform termite secretes camphor, isonitriles.)
- EMERSON, A. E., 1929a, pp. 722-727. (Odor and sound means communication.)
- GHIDINI, G. M., 1939, pp. 207-213. (Presence of "acetileolina" (bile?) in *Reticulitermes lucifugus* and *Calotermes flavicollis*.)
- GHIDINI, G. M., and MORIGGI, M., 1939, pp. 345-353. (Pericardial concretion.)
- GRASSÉ, P. P., and LEPERON, L., 1936, p. 1013.
- HALDANE, J. B. S., 1924, p. 676. (Growth-regulating substance in termites, physiology of insects feeding on termites or their secretions.)
- HANSTROEM, B., 1940, pp. 227-235. (Internal secretory organs head *Mastotermes darwiniensis*, *Zootermopsis angusticollis*, and *Termes gilvus*.)
- HEGH, E., 1922, pp. 221-224. (Food by regurgitation and defecation.)
- HINGSTON, R. W. G., 1928, pp. 717-725. (India, *Euterms biformis*, soldier, sticky clear fluid in beak for defense.)
- HOLMGREN, N., 1909*, pp. 190-203. (Exudate theory, relationship between amount exudate tissue and the care a termite receives, as licking and feeding.)
- JUCCI, C., 1921a, pp. 213-215. (Presence of deposits of uratics ("uratici") in the fatty tissue.)
- 1932, pp. 1422-1429. (Presence of bacteriocytes ("batteriociti") in fatty tissue.)
- LIGHT, S. F., 1944a, pp. 413-454. (Ectohormonal control of the development of supplementary reproductives in *Zootermopsis*.)
- McINDOO, N. E., 1923, pp. 367-381. (Glandular structure of abdominal appendages of the termitophile *Spirachtha*.)
- McLACHLAN, R., 1878, p. xii. (Acid liquid from cephalic process *Termes ripperti*, Cuba.)
- MUKERJI, D., and RAYCHAUDHURI, S., 1943b, p. 167. (Bearing of exudate organs on postadult growth, *Termes redemanni*, India.)
- NASONOFF, N. V., 1893, pp. 700-702. (Salivary glands nasuti and soldiers.)
- OSHIMA, M., 1919, pp. 337-338, 347-374. (Acidulous secretions from frontal gland soldier *Coptotermes formosanus* dissolves lime mortar, Formosa.)

- RANDALL, M., and DOODY, T. C., in Kofoid, 1934, 2d ed., pp. 99-104. (Hydrogen-ion concentration in termite intestine.)
- SNYDER, T. E., 1915, pp. 18-41. (Head gland of *Eutermes*.)
- 1924c. (Exudate as food, p. 5; secretions for defense, p. 9.)
- 1926f, pp. 533-534. (Secretions from frontal gland soldier for defense; evolution of glands.)
- 1928c, p. 381. (*Coptotermes* dissolves lime mortar by secretions from frontal gland.)
- 1935e. (Secretions, pp. 4, 19, 29, 62, 92; "proctodeal" food from anus; pp. 56, 85; "stomodeal" food by mouth from stomach, p. 85; "trophallaxis" or exchange of nourishment, p. 86.)
1948. (Secretions as in 1935e, pp. 63, 65, 102; protective secretions, exudates for food, U.S., pp. 23, 34, 70, 153; disintegration lime mortar by *Coptotermes*, Formosa.)
- 1920*, in (Banks and) Snyder, pp. 94, 112. (Exudate for food, "trophallaxis" or exchange of nourishment.)
- WEALE, J. P. M., 1878, p. ix. (*Termes trinervius*, Cape Colony, distils an acid liquid from cephalic process, protective against ant predators.)
- WHEELER, W. M., 1918, pp. 293-343. ("Trophallaxis," or exchange of nourishment, mother and brood; also other insects such as termitophiles; source of the social habit.)

SENSE ORGANS

- BUGNION, E., 1913c, pp. 125-135, 136-139. (Sound perception.)
- CHILD, H. J., in Kofoid, 1934, 2d ed., pp. 76-79, 79-81. (Peripheral sense organs, eyes *Zootermopsis*, central nervous system.)
- DROPKIN, V. H., 1941, pp. 200-202. (Cooling termites of various species (and odors) in refrigerator enables them to live together peacefully afterward.)
- EMERSON, A. E., 1929a, pp. 722-727. (Odor, contact, and sound as means communication.)
- EMERSON, A. E., and SIMPSON, R. C., 1929, pp. 648-649. (Odor, contact, and sound as means communication.)
- GRASSI, B., and SANDIAS, A., 1897, pp. 267-269, 313-315.
- HANSTROEM, B., 1930, pp. 732-733. (Brain *Termopsis nevadensis*.)
- 1940, pp. 227-235. (Sense organs and nervous system head *Mastotermes darwiniensis*, *Zootermopsis nevadensis*, and *Termes gilvus*.)
- HARTWELL, R. A., 1924, pp. 131-162. (Olfactory sense.)
- HEATH, H., 1927, pp. 387-419. (Eyes, *Termopsis*.)
- HILTON, W. A., 1937, pp. 88-91. (Nervous system, summary of brain.)
- HOLLANDE, A., CACHON, J., and VAILLANT, F., 1952, pp. 365-395. (Larvae of termitophilous Muscidae, Calliphoridae, Oestridae, Tineidae, Melandryidae, with appendages, purpose sensory, not glandular.)
- JOERSCHKE, H., 1914, pp. 153-280. (Compound (faceted) eyes.)
- JORG, M. E., 1933, pp. 93-102. (Eyes, *Eutermes* sp.)
- MARCUS, H., 1947, p. 42. (Stridulation organ in nasute between thorax and abdomen, Bolivia.)
- 1949, pp. 44-51. (Postantennal organ.)
- 1952, pp. 24-28. (Chordotonal organs head nasute and new sensillae described, in head; one with statolith for equilibrium, one for humidity, another to perceive shock.)
- 1953, pp. 1-16. (Chordotonal and equilibrium organs in *Anoplotermes* and *Nasutitermes*.)
- MARSHALL, G. A. K., 1896, pp. 46-47. (Senses of insects.)
- NOYES, B., 1930, pp. 259-286. (Peripheral sense organs *Termopsis angusticollis*, 3 types on antennae, mouthparts, legs, cerci, and abdominal styles.)
- PACKARD, A. S., 1889a, pp. 222-233. (Epipharyngeal organs taste in mandibular insects.)
- RICHARD, G., 1948, pp. 356-357. (Phototropism, *Calotermes flavicollis*.)
- 1949a, pp. 77-84. (Distribution of sensillae on feet of *Calotermes flavicollis*.)
- 1950a, pp. 65-83. (Innervation sense organs in feet *Calotermes flavicollis*.)
- 1951, pp. 485-603. (Phototropism in relation to sense organs.)
- 1952, pp. 397-412. (Innervation sense organs in mouthparts *Calotermes flavicollis*.)
- 1953, pp. 415-421. (Role of sense organs in certain phases of behavior, geotropism, phototropism.)
- ROSEN, K. VON, 1913a, pp. 625-664. (Eyes studied as contribution to knowledge of brain.)

- SNYDER, T. E., 1915, pp. 31-32. (General, relation between convulsive movements—sudden jerking of body—and sense organs, odor.)
 1919, p. 99. (Odor.)
 1924c, p. 8. (Perception by brachypterous reproductive forms.)
 1926f. (Stimulus to swarm; sex odor, amatory procedure, pp. 535-536; convulsive movements and sense organs, chordotonal organs, vibration unfavorable, pp. 540-541.)
 1935c, pp. 4-5. (Senses of feeling, smelling, tasting, hearing, and seeing; tropisms reversed during and after swarm.)
- 1935c, pp. 49-52. (Odors of sex and nest, contact stimuli, chordotonal organs, convulsive movements, method of communication.)
 1948, pp. 56-59, 123. (Tropisms, odor, sound, vibration in railway ties, factory timbers unfavorable, experiments.)
 1952d, pp. 33-34. (History of the use of microphones.)
- STOKES, A. C., 1893, 1894, pp. 273-276. (Sense organs on legs *Termes flavipes*.)
 THOMPSON, C. B., 1916, pp. 553-603. (Brain and frontal gland *Leucotermes flavipes*.)
 1922, pp. 495-535. (Eyes, *Termopsis*.)

SHIELDS,² METAL BARRIERS

- ADAMSON, A. N., 1937, pp. 141-149. (Trinidad.)
- ANONYMOUS, 1931a, pp. 1-4. (South Africa.)
 1936b, pp. 43-44. (U.S., model house.)
 1936d, pp. 12-13. (Australia.)
 1937e, pp. 1-11. (U.S. and Panama.)
 1937f, p. 4. (U.S.)
 1939, pp. 133-138. (U.S., Master Specifications, Home Owners Loan Corp.)
 1939a, pp. 1-24. (Federal Housing Administration, U.S.)
 1939b, pp. 1-14. (Brick buildings, Adelaide, South Australia.)
 1941c, pp. 1-11. (U.S., copper shields, diagrams show installation.)
 1942, pp. 18, 19, 28-33. (U.S. Dept. Agriculture, types and gages metal, revised 1949.)
 1948, pp. 11, 16. (U.S. Dept. Agriculture, types and gages metal; revised 1951.)
 1950, pp. 1-4. (Australia.)
 1950a, pp. 69-73. (South Africa, ineffective in protecting against mound builders.)
- BEESON, C. F. C., 1934, pp. 64-78. (India, p. 72.)
- CLARK, A. F., 1941-1942, pp. 23B-32B. (New Zealand, shields required by law.)
- CLEMENTS, W. B., 1952, pp. 29-30. (Florida, effective only if properly designed and installed, rarely the case.)
- COATON, W. G. H., 1949a, pp. 1-89. (South Africa, shields, while effective in protecting against subterranean termites, cannot stop mound-building termites.)
- COX, C. L., 1935, p. 19. (Kaduna, Nigeria, Public Works Dept.)
- CRAIGHEAD, F. C., 1950, p. 45. (Buildings, U.S.)
- DUPLESSIS, C., 1931a, pp. 1-7. (South Africa, Natal, concrete floors suspended—not built on earth filling, a course of 24-gage galvanized sheet iron, lapped, riveted, and soldered at seams, covers whole of sleeper walls, built into foundation walls on all sides and under all floors, is bedded in 5:1 cement mortar; in Transvaal, Orange Free State, and Cape Province a termite-proof course is built into foundation walls as in Natal, but concrete floors are laid on earth filling, since termites are not so troublesome.)
- FROGATT, W. W., 1905, pp. 632-656, 753, 774. (N.S. Wales, Australia.)
 1905a, pp. 1-47. (N.S. Wales, Australia.)
 1913, pp. 1-46. (N.S. Wales, Australia.)
- FULLAWAY, D. T., 1926, pp. 68-88. (Hawaii.)
- FULLER, C., 1901, pp. 84-86. (In Australia sheets of galvanized iron or zinc cover tops of piles supporting houses to check passage of termites, suitable for Natal, South Africa.)
- HAMILTON, M. J., 1933-1934, pp. 337-344, 25-30. (U.S.)
- HARTNACK, H., 1943, p. 37. (U.S.)
- HORNER, A. C., BOWE, E. E., PUTNAM, W., and CHASE, G. E., in Kofoid, 1934, 2d ed., pp. 599-642. (Protection buildings, p. 626, shields.)
- HORNER, A. C., and BOWE, E. E., in Kofoid, 1934, 2d ed., pp. 735-739. (Protection lumber storage piles; shields, p. 736.)
- JACK, R. W., 1913, pp. 1-16. (Rhodesia.)
- JEPSON, F. P., 1929, pp. 22-26. (Ceylon.)
- JOHNSON, R. P. A., and DAVIS, E. M., 1935, p. 5. (Recommend use, U.S.)

² Also included under "Control" in other papers.

- JOHNSTON, H. R., 1943, pp. 386-392. (U.S., in laboratory tests no type shield was 100% effective; as supplement to good construction, properly made and installed shields give high percentage protection.)
- JONES, N. L., 1929, pp. 810-812. (N.S. Wales.)
- KECK, C. B., 1953, pp. 187-194. (Hawaii, thick tubes *Coptotermes* pass by shields.)
- (LEWIS, B., and) SNYDER, T. E., 1944, pp. 16-20. (Length life 26-gage galvanized iron shields, Louisiana, over 16 years.)
- LIGHT, S. F., 1925, p. 287. (Pacific area.)
1925a, suppl. p. xiv. (Metal shield in masonry.)
1934, in Kofoid, 2d ed., p. 348. (Philippines.)
- MAC GREGOR, W. D., 1950, pl. 7, pp. 23-29. (British colonies.)
- MUIRHEAD, D. M., 1937, pp. 87-91. (U.S., several types buildings.)
- OSHIMA, M., 1919, pp. 342-343. (Barriers, Formosa, concrete drains or gutters.)
- PAULL, J., 1917, p. 782. (Southern Australia.)
- POMEROY, A. W. J., 1927, pp. 1-21. (Accra and Achinota, Gold Coast.)
- ST. GEORGE, R. A., 1939, p. 15. (Buildings, U.S.)
- SNYDER, T. E., 1926c, pp. 10-11, 14. (Metal collar around pipe sunk in concrete; shields, guards, caps, U.S. 1930 revision, pp. 10-11: Shields, guards, metal caps. 1934 revision, pp. 11-12, 14: Shields, guards, metal caps. 1937 revision, pp. 11-12, 14: Shields, guards, metal caps. 1939 revision, pp. 11-12, 14: Shields, guards, metal caps.)
1927a, pp. 290-291. (Metal shield for poles.)
1927b, pp. 316-321. (Building foundations, U.S.)
1929k, pp. 210-230. (Building foundations, U.S.)
1929l, pp. 1-5. (Building foundations, U.S., pp. 3-5.)
1929b, pp. 268-277. (Building foundations, U.S., pp. 3-5.)
1929 (1931)*, pp. 542-543. (Building foundations, U.S., pp. 3-5.)
1933b, pp. 5-6, fig. 1. (Building foundations, U.S.)
1934b, pp. 5-6. (Buildings, U.S.)
1935a, pp. 70-78. (Buildings, U.S.)
1935c, pp. 1-6. (Buildings, U.S.)
1935d, pp. 5-6, 7-8, 28-30. (Buildings, U.S.)
1935e, pp. 135-136, 144, 169-170. (Buildings, U.S.)
1938, pp. 6-9. (Buildings, U.S.)
1939, pp. 7-9. (Buildings, U.S., Panama.)
1948, pp. 165-168. (Buildings, U.S., Panama, different types, bread pan, strip, etc.)
1949d, in Burton, pp. 264-272. (Buildings, U.S., Panama, different types, bread pan, strip, etc.)
1951, p. 28. (Buildings, U.S.)
1951a, p. 250. (Buildings, U.S.)
1952g, pp. 14, 16, 18. (Buildings, U.S.)
SNYDER, T. E., and REED, W. D., 1949, p. 9. (Buildings, U.S.)
SNYDER, T. E., and ZETEK, J., in Kofoid, 1934, 2d ed., p. 346. (Panama.)
TURNER, N., 1937, pp. 94-98. (Buildings, U.S.)
1939, pp. 16-17. (Construction shields, U.S.)
TURNER, N., and TOWNSEND, J. F., 1936, pp. 209-242. (Buildings, U.S.)
1939, pp. 1-14. (Buildings, U.S.)
TURNER, N., and ZAPPE, M. P., 1938, pp. 208-217. (Effectiveness shields in Connecticut.)
TURNER, N., ZAPPE, M. P., and TOWNSEND, J. F., 1937, pp. 392-396. (Buildings, U.S.)
WILSON, H. B., 1946, pp. 261-268. (Victoria, Australia.)

SOIL POISONS, POISON BAITS, REPELLENTS

- ANONYMOUS, 1921, pp. 290-295. (Australia.)
1925, pp. 739-745. (Australia, sugarcane protected by poisoned (arsenical) molasses bait.)
1926a, pp. 4-5. (*Mastotermes darwiniensis*, Queensland, Australia, poisoned bait—arsenic 4 parts by weight, caustic soda 1 part, mixed dry, water gradually added until dissolved, for every pound arsenic add 2 gal. molasses; dehydrated tar and paradichlorobenzene as repellents; also clear timber from vicinity where sugarcane is raised.)
1927a, pp. 86-88. (Queensland, *Coptotermes acinaciformis*, sugarcane pest, benzene and Cyanogas control.)
1935e, p. 2. (Zinc chloride.)
1936b', pp. 189-211. (Metallic and inorganic weed-killing compounds.)
1937i, pp. 154-156. (St. Helena, soil poisoning, chemical insulation.)
1942, pp. 34-37. (U.S. Dept. Agriculture recommends as soil poisons: Sodium arsenite, coal-tar creosote in fuel oil, orthodichlorobenzene, trichlorobenzene, pentachlorophenol; dosages, methods application; revised 1949.)
1945c, pp. 1-2. (U.S., protection buildings.)

- 1946c, pp. 195-199. (Australia, *Coptotermes*, paradichlorobenzene protects roots plants.)
- 1948, pp. 23-24. (U.S. Dept. Agriculture recommendations for soil poisons in order of effectiveness: Sodium arsenite, trichlorobenzene in fuel oil, DDT in fuel oil, pentachlorophenol in fuel oil, and coal-tar creosote in fuel oil; dosages in relatively increasing amounts, methods application; revised 1951.)
- 1949l, p. 73. (Australia, creosote and 5% pentachlorophenol in oil at rate of 0.5 gal. per cu. ft. gave complete protection for 1 year; lead arsenate and white arsenic (2 oz. per cu. ft.) failed.)
- 1950, pp. 1-4. (Australia, creosote oil, 1 gal. to 5 cu. ft. in trench.)
- 1950a, pp. 86-104. (South Africa, pentachlorophenol less dangerous, more effective than sodium arsenite; copper sulfate useless.)
- 1950d, p. 62. (Australia, creosote and 5% pentachlorophenol (0.5 gal. per cu. ft.) have given complete protection for 2 years as soil poisons; 5% sodium pentachlorophenate and 10% sodium arsenite gave 1 year protection.)
- 1950f, pp. 1-4. (South Africa, "pestrol" soil solution, "B" or "S.S.B.")
- 1950i, pp. 1-2. (DDT recommended by U.S. Bur. Ent. and Plant Quar. for control subterranean termites.)
- 1951c, p. 65. (Australia, third annual examination soil poison tests around mounds of *Nasutitermes exitiosus*, creosote and pentachlorophenol effective 3 years, 5% sodium pentachlorophenate and 10% sodium arsenite (0.5 gal. per cu. ft.), 2 years, 5% DDT, 1 year; lead arsenate and white arsenic (4 oz. per cu. ft.) failed, 1 year.)
- 1952d, p. 67. (Australia, third annual examination soil poison tests around mounds of *Nasutitermes exitiosus*, creosote and pentachlorophenol effective 3 years, 5% sodium pentachlorophenate and 10% sodium arsenite (0.5 gal. per cu. ft.), 2 years, 5% DDT, 1 year; lead arsenate and white arsenic (4 oz. per cu. ft.) failed, 1 year; 4th annual examination, same results as 3d and 2d; in similar tests against *Coptotermes lacteus* 5% pentachlorophenol, 5% DDT, and creosote have all given complete protection for 1 year.)
- 1953p, p. 16. (U.S. Dept. Agriculture's tests at Beltsville, Md., and Gulfport, Miss., prove chlordane an effective soil poison; emulsion will not kill vegetation.)
- BALLOU, H. A., 1912, pp. 150-151. (West Indies, sugar and arsenic or strychnine poison bait.)
- BATES, G., 1926, pp. 4-5. (*Mastotermes darwiniensis*, Queensland, poison bait, arsenic and molasses to protect sugarcane; mix dry 4 parts arsenic by weight, 1 part caustic soda, add water gradually until dissolved; for every pound of arsenic 2 gal. molasses is added.)
- BATES, H. W., 1864, p. 186. (Arsenical soap, wall space filled, Amazon.)
- BEELEY, F., 1934, pp. 160-175 (Malaya, chemical dusts about roots rubber trees.)
- BEHR, E. A., 1949, pp. 19-20, 22. (Pentachlorophenol as a soil poison, U.S.)
- BRITAIN, W. H., 1925, pp. 82-87. (Calcium cyanide in the control of mound-building termites, Bengal, India.)
- 1926, pp. 45-48. (Calcium cyanide in the control of mound-building termites, Bengal, India, Ceylon.)
- 1928, pp. 115-124. (Control of scavenger termites in India and Ceylon by Cyanogas, calcium cyanide.)
- CARESCHÉ, L., and NGUYÊN-HUU-HANH, 1937, pp. 213-216. (Toxicity of sulfur anhydride to termites, Indo-China.)
- CHOPRA, R. L., 1928, pp. 67-125. (Sugarcane sets dipped for 5 min. in 2.5% solution bichloride mercury and 1% arsenic, Punjab, India. Soil treatment to protect chillies (*Capsicum*)—6.5 oz. arsenic and 8% paris green per 100 sq. ft. mixed with ashes to secure even distribution and prevent injury to plants.)
- CHRISTIAN, M. B., 1945, p. 20. (Chlorinated phenols as soil poisons, U.S.)
- CIAMPOLINI, M., and ZOCCHI, R., 1954, pp. 309-325. (Tuscany and Firenze, damage and control *Reticulitermes lucifugus* in buildings—soil poisons, wood preservatives.)
- COATON, W. G. H., 1941, pp. 1-4. (Poison baits to protect building in South Africa against *Macrotermes*, *Odontotermes*, and *Hodotermes*.)
- 1943, pp. 1-5. (South Africa, *Hodotermes*, poison bait, soak cut grass half inch long in solution 1 lb. sodium arsenite, 8 lb. brown sugar, 8 gal. water, used dry.)
- CRAIGHEAD, F. C., 1950, p. 46. (Soil poisons to protect buildings, U.S., same as in Anonymous, 1942, 1949.)
- DÉCAMPS, M., 1936. (St. Helena, liquid harm-

- less to man used as soil poison about foundations, Napoleon's residence.)
- DELAFLANE, W. K., JR., 1951, pp. 31-32. (U.S., new chemicals.)
- DEWS, S. C., and MORRIL, A. W., JR., 1946, pp. 347-355. (5% DDT in oil effective for 2 years at army installations, Fourth Service Command, creosote in diesel oil failed.)
- DIETZ, H. F., and SNYDER, T. E., 1924, p. 301. (Panama, fumigation mound nests with hot volatile fumes arsenic and sulfur pumped into galleries, poison baits, soil poisons.)
- DUPLESSIS, C., 1931a, pp. 1-7. (Soil poisons and baits, South Africa.)
- 1935, pp. 423-425. (Soil poisons and baits, South Africa.)
- EHRHORN, E. M., in Kofoid, 1934, 2d ed., pp. 330-333. (Hawaii, paris green, carbon bisulfide.)
- EVANS, R., and HASSLER, K., 1954, pp. 34, 36, 38, 40. (U.S., EDB (ethylene dibromide), advantages and disadvantages as a soil poison; effective.)
- FEYTAUD, J., 1951, pp. 223-225. (France, toxic mixtures against subterranean termites.)
- 1953, pp. 135-143. (France, CS₂, sodium arsenite, chlorinated phenols, naphthalenes, DDT, chlordane.)
- FLETCHER, F. W., 1945, pp. 15-16, 18, 20, 22, 24, 26, 28. (U.S., orthodichlorobenzene.)
- FROGGATT, W. W., 1920, p. 46. (Australia, poison baits, 1 oz. arsenic to 1 lb. treacle or substitute sodium arsenite, dissolve in hot water, mix with treacle, percolate through damaged floors or joists.)
- FULLER, C., 1912a, pp. 345-369, 543-571. (Natal, South Africa, fumigate nests in ground, "Universal Ant Exterminator," mixture 7 lb. arsenic to 3 lb. sulfur, or 8 to 2, results same when sulfur portion is reduced; in Philippines, use 3 parts sulfur to 1 arsenic; solution arsenite as soil poison.)
- 1919a, pp. 301-305. (South Africa, poison fumes from cylinders under pressure and arsenical poison baits, *Hodotermes*.)
- HASSLER, K., 1953, pp. 37-38. (Ethylene dibromide, slab type house, U.S.)
- 1953a, pp. 31-32, 36. (Ethylene dibromide, slab type house, U.S., three more cases where EDB was a successful soil fumigant.)
- HATFIELD, I., 1944, pp. 10-14. (Results of tests soil poisons in West Virginia, Mississippi, and Florida; pentachlorophenol and a mixture of this with trichlorobenzene most effective; none completely effective over 5-year period.)
- HAZELHOFF, E. H., 1927, pp. 57-82. (Java, *Termes gilvus* in sugarcane fields controlled by stomach poisons.)
- HEADLEE, T. J., and JOBBINS, D. M., 1939, pp. 638-640. (Acid lead arsenate effective soil poison in control *Reticulitermes flavipes* in New Jersey; minimum dosage 0.05 lb. per cu. ft. soil as effective as maximum or 0.4 lb. per cu. ft.)
- HETRICK, L. A., 1950, pp. 57-59. (Organic insecticides, effectiveness against *Reticulitermes flavipes*, Eastern U.S.)
- 1952, pp. 235-237. (Organic insecticides, effectiveness against *R. flavipes*, eastern U.S., more than 5 years testing gamma benzene hexachloride and chlordane, more toxic than pentachlorophenol, sodium pentachlorophenate, toxaphene, DDT, and its analogs. Aldrin, dieldrin, and heptachlor very promising after 2 years test.)
- HILL, G. F., and HOLDAWAY, F. G., 1934, pp. 169-172. (Zinc chloride, 3¼ oz. per sq. ft. and penetration 1 in., effective in controlling mound-building *Eutermes exitosus*, Australia.)
- HOCKENYOS, G. L., 1939, pp. 147-149. (Laboratory evaluation soil poison, U.S., poisons mixed with air-dried soil, moistened slightly. Trichlorobenzene and polychloropentane markedly superior to orthodichlorobenzene.)
- 1939a, pp. 16-17. (U.S., leaching of sodium arsenate through soil.)
- 1940, p. 10. (U.S., properties of soils related to termite control.)
- 1940a, pp. 7-8. (U.S., how long will soil poisons remain effective?)
- HOWELL, J. L., 1951, pp. 31-32. (U.S., importance of soils in termite control.)
- 1952, p. 27. (U.S., safety in control.)
- HUSSAIN, M. A., 1929, pp. 65-66. (Lahore, Punjab, India, poisons to control termite damage to crops and buildings.)
- JARVIS, E., 1926a, p. 6. (Australia, *Mastotermes darwiniensis* damage to sugarcane, control: poison baits applied to infested stumps, roots, posts, etc., digging out nest, killing queens, burning old logs and trees in vicinity; also dipping ends sets in dehydrated tar—used effectively in India.)
- 1926b, pp. 13-14, 49-52. (Queensland, fumigation of ground with paradichlorobenzene, carbon disulfide, calcium cyanide; poison baits: arsenic and molasses, poi-

- soning sugarcane sets, paris green, lead arsenate, and arsenate of copper.)
- 1927a, pp. 18-23. (Queensland, *Mastotermes* rated 4th of 29 insects of major importance to sugarcane; dipping ends sets in dehydrated tar before planting *not* effective; sodium arsenite best poison bait, pieces split cane soaked in 10% solution; mortality secured in 24 hr.)
- JEPSON, F. P., et al., 1930b, pp. 6-14. (Ceylon, gasoline (petrol) used as poison.)
- 1931a, pp. 67-69. (Ceylon, mounds leveled, hole in center area and a circle of holes about center 18 in. apart, one oz. petrol per hole, 10 to 12 oz. per nest, disintegrate the fungus combs.)
- JOHNSTON, H. R., 1954, pp. 24, 28, 46. (With pressure 50 lb. per sq. in. where space under slab 2 to 4 in. good treatment 3 ft. from nozzle, voids of 1 in., spread of chemical for maximum of 2 ft., U.S.)
- KOFOID, C. A., et al., *in* Kofoid, 1934, 2d ed., p. 582. (Lists soil poisons, U.S., precautions where arsenic used.)
- KOWAL, R. J., 1954, pp. 12, 14, 16, 18. (Soil poisons under slab construction, 1 pt. per sq. ft., U.S.)
- 1954a, p. 6. (U.S., water suspensions or powder not as effective as solutions or emulsions as soil poisons.)
- KOWAL, R. J., and ST. GEORGE, R. A., 1948, pp. 112-113. (Preliminary results soil poison tests, 3 to 4 years, Beltsville, Md., Canal Zone, Panama; dry lead arsenate, sodium arsenite and liquid trichlorobenzene, and combination trichlorobenzene and 5% pentachlorophenol most effective.)
- LAAN, P. A. VAN DER, 1951, pp. 33-35. (DDT as a soil poison.)
- LANGFORD, G. S., 1953, pp. 36-37. (Southern U.S., chlordane.)
- (LEWIS, B., and) SNYDER, T. E., 1944, pp. 16-20. (Soil poisons, U.S.)
- LITIG, K. S., 1949, p. 45. (U.S. Third Army posts, 5% pentachlorophenol in fuel oil, 1 to 2 gal. per 5 lin. ft.)
- LUKE, W. J., JR., 1952, pp. 1-7. (Dominican Republic, sugarcane, aldrin or "Octalene" or "Aldrex" most effective, 2 lb. per acre, after soil was plowed and knifed.)
- MCCAULEY, W. E., 1939, pp. 9-12. (Need for standardized method of testing soil poisons.)
- 1943, pp. 165-166. (Testing soil poisons, *in* Campbell and Moulton, 1943, pp. 1-206, reprint of mimeographed outline of standard procedure issued by U.S. Dept. Agriculture, Bur. Ent. and Plant Quar., Forest Insect Investigations.)
- MADRID, V. J., 1934, pp. 604-612. (Philippines, immersion of seeds and cuttings from a few minutes to 1 hr. in a 1:10 solution of coal-tar kerosene emulsion effective; does not affect viability.)
- MARTIN, G. C., 1950, pp. 61-63. (Rhodesia, crop (tobacco) spray as a repellent.)
- MOSSOP, M. C., 1948, pp. 114-118. (Rhodesia, control harvester termites, *Hodotermes* and *Microhodotermes* spp.; 6½ bu. dry bait per acre spread evenly; soak dry grass up to ½ in. in length in solution 1 lb. sodium arsenite to 8 gal. water, dry bait before using; do not graze cattle until after soaking rains.)
- NARAYANAN, E. S., and LALL, R., 1952, pp. 21-30. (Crops, India.)
- O'KANE, W. C., and OSGOOD, W. A., 1922, pp. 1-20. (½ of 1% solution Phinotas oil in water.)
- OSBORN, E. H., 1926, pp. 707-708. (Australia, giant white ant, sugarcane, arsenic-molasses bait, poison fences, stumps.)
- OSHIMA, M., 1919, p. 342. (Formosa.)
- PAOLI, G., 1929, pp. 273-281. (Sodium cyanide solution for destruction nests.)
- RANDALL, M., and DOODY, T. C., *in* Kofoid, 1934, 2d ed. (Ground treatments, U.S., pp. 502-513; poison dusts and baits, U.S., pp. 463-476.)
- ROSSI, R. T., and SNYDER, T. E., 1934, pp. 755-756. (Soil poison tests about radio poles at Riverhead, Long Island, N. Y., U.S. Dept. Agriculture in cooperation with R.C.A.)
- ST. GEORGE, R. A., 1939, p. 14. (U.S.)
- 1952, p. 20. (U.S., new insecticides for termite control, DDT, chlordane, benzene hexachloride, aldrin, dieldrin; chlordane 2% emulsion not injurious to vegetation.)
- 1952a, pp. 36, 32. (History soil poison tests in U.S. and comparative effectiveness chemicals.)
- 1954, pp. 24, 26. (U.S., 1 and 2% chlordane in No. 2 fuel oil and 2% chlordane emulsion, at ½ and 1 pt. per sq. ft. of soil surface effective for 5 years; emulsion does not injure plants.)
- SECRET, H. C., 1952, pp. 88-89. (New insecticides to control subterranean termites—0.8% gamma isomer benzene hexachloride in kerosene and 8% DDT in No. 2 fuel oil effective for 5 years, dosage 2 gal. per 5 cu. ft.)

- 1954, p. 99. (Mississippi, BHC, chlordane, and DDT emulsions caused no plant injury.)
- 1954a, pp. 1-5. (Gulf Coast, U.S., stake tests, 1 to 1¼ gal. to 5 cu. ft., 5.36 lb. benzene hexachloride in 100 gal. kerosene effective for 8 years; DDT in kerosene, 63.5 lb. in 100 gal. fuel oil effective for 5 years; sodium arsenite 9% in water, 2 gal. to 5 cu. ft. effective for 6 years (at Beltsville, Md., and Canal Zone effective for 9 years); trichlorobenzene 1 part to 3 parts No. 2 fuel oil, effective for 6 years. Groundboard tests, benzene hexachloride 0.4 and 0.8% gamma concentration, 1 pt. dosage per sq. ft., effective for 6 years; chlordane in No. 2 fuel oil, and 2% emulsion, 6 years; dieldrin in water emulsion 0.25, 0.5, and 1%, 5 years; Toxaphene in No. 2 fuel oil, 5% concentration, 6 years. Buildings, sodium arsenite 10%, 6 years.)
- SHELFORD, V. E., 1949, p. 541. (Aqueous solution chlordane.)
- 1950, p. 107. (Aqueous solution chlordane.)
- 1952, p. 127. (Aqueous solution chlordane, 1% solution effective after 3 years at Urbana, Ill., soil about a building.)
- 1952a, p. 544. (Aqueous solution chlordane, 1% solution effective 4 years at Urbana, Ill., soil about a building.)
- 1953, pp. 527-528. (Aqueous solution chlordane, 1% solution effective 5 years, since early Sept., 1947, at Urbana, Ill., soil about a building.)
- SHIBATA, K., 1934, pp. 250-255. (Effect of naphthalene on behavior of termites, Formosa.)
- SKAIFE, S. H., 1954a, p. 130. (South Africa, lime, salt, etc., repellents.)
- SMITH, L. E., 1942, p. 19. (Synthetic organic compounds.)
- 1942a, pp. 1-4. (Phenoxathiin a promising insecticide):
- | Concentration | Hours | Percent kill |
|---------------|-------|--------------|
| 1:1,000 | 24 | 100 |
| 1:3,000 | 24 | 97 |
| | 48 | 100 |
| 1:5,000 | 24 | 80 |
| | 48 | 100 |
- SMITH, M. W., 1940, pp. 19-20. (Diphenylamine promising soil poison.)
- SNYDER, T. E., 1915, p. 79. (Drenching soil under cut-off infested timbers in cellar with kerosene oil, or carbon bisulphide, U.S.)
- 1916, pp. 28-29. (Drenching soil under cut-off infested timbers in cellar with kerosene oil, or carbon bisulfide, U.S.)
- 1916a, pp. 15-16. (Drenching soil under cut-off infested timbers in cellar with kerosene oil, or carbon bisulfide, U.S.)
- 1919a. (Drenching soil under cut-off infested timbers in cellar with kerosene oil, or carbon bisulfide, U.S., also under origin shelter tubes, pp. 12-13; carbon bisulfide in holes in soil and soaking soil with kerosene emulsion to kill termites attacking flowers and greenhouse plants, precautions in use carbon bisulfide, pp. 15-16.)
- 1926c, p. 6. (Pretreatment soil before building, U.S., sodium cyanide, sodium arsenite, creosote and kerosene, carbon disulfide emulsion and lye.) 1930 revision, p. 6. (Pretreatment soil before building, U.S., sodium cyanide, sodium arsenite, creosote and kerosene, carbon bisulfide emulsion and lye.) 1934 revision, pp. 7-8. (Orthodichlorobenzene added.) 1937 revision, pp. 7-8. (Orthodichlorobenzene added.) 1939 revision, pp. 7-8. (Orthodichlorobenzene added.)
- 1929b. (Pretreatment soil before building, p. 22; mound-building termites Pacific area killed by calcium cyanide and poison gases, pp. 25-26; sugarcane dipped in kerosene oil, sodium arsenite before planting, calcium cyanide and carbon bisulfide treatment soil, p. 26; poison baits: arsenic and molasses, sawdust soaked with sodium arsenite, p. 26.)
- 1929j, pp. 6-12. (Pretreatment soil before building; mound-building termites Pacific area killed by calcium cyanide and poison gases; sugarcane dipped in kerosene oil, sodium arsenite before planting, calcium cyanide and carbon bisulfide treatment soil; poison baits: arsenic and molasses, sawdust soaked with sodium arsenite. Soil poisons, Hawaii, p. 12.)
- 1929m, p. 9. (Soil poisons for buildings and poles, U.S.)
- 1929o. (Pretreatment soil before building, pp. 271-272; gases and soil poisons for control mound-building termites, p. 275.)
- 1931*, pp. 545-546. (Pretreatment soil before building; gases and soil poisons for control mound-building termites; carbon bisulfide and paris green for underground carton nest building termites attacking poles, Hawaii, p. 546.)
- 1933b, pp. 6-7. (Orthodichlorobenzene soil

- poison, temporary stoppage, still experimental, dosage and methods application.)
- 1934b, pp. 5-6, 12. (U.S., buildings.)
- 1935a, pp. 70-78. (U.S., buildings.)
- 1935b, pp. 115-119, 128. (U.S., buildings.)
- 1935c, pp. 1-6. (U.S., buildings.)
- 1935d, pp. 5-6, 28-30. (U.S., buildings.)
- 1935e, pp. 130, 132, 144-145, 156, 166-167. (U.S., buildings, in experimental stage, temporary stoppage damage; orthodichlorobenzene most promising; dosages, methods application; poles.)
- 1936, pp. 92-94, 103. (U.S., buildings.)
- 1936a, pp. 395-396. (U.S., buildings.)
- 1937, pp. 26-33. (Louisiana, coal-tar creosote and petroleum oil, dosage, method application.)
- 1938, pp. 6-9. (Buildings, U.S.)
- 1939, pp. 7-9. (Buildings, U.S.)
- 1939a, p. 1. (U.S., results soil poison tests, U.S. Dept. Agriculture.)
- 1947b, p. 147. (U.S., buildings.)
- 1947c, p. 12. (U.S., chemical insulation of buildings in Nat. Pest Control Assoc. 1, 2, 3 and 3½ principles for control subterranean termites.)
- 1948, pp. 155, 162-163, 172-177, rev. ed. 1935e. (Soil poisons for temporary relief and supplement structural repairs, sodium arsenite, pentachlorophenol, orthodichlorobenzene, trichlorobenzene, coal-tar creosote diluted in fuel oil, monochloronaphthalene, DDT in petroleum oil; dosages, methods application about buildings; about utility poles, p. 109.)
- 1949c, p. 24. (U.S., DDT, chlordane, benzene hexachloride effective soil poisons.)
- 1950, pp. 12-14. (Maryland, sodium arsenite sprayed under buildings (against walls) where insufficient clearance for crawl space, effective, cheap; 2% chlordane emulsion effective, does not kill vegetation.)
- 1951, p. 28. (Chemical barriers or soil poisons, buildings, U.S.)
- 1951a, p. 250. (Soil poisons supplement structural changes in control subterranean termites, U.S.)
- 1952b, pp. 34, 48. (Sodium arsenite cheap, nonflammable, effective soil poison, can be used with safety in U.S.)
- 1952f, p. 30. (Wood preservatives not necessarily effective soil poisons.)
- 1953b, p. 30. (Sodium arsenite, DDT, and benzene hexachloride emulsions recommended as soil poisons under concrete slabs before pouring concrete, must be well distributed in soil.)
- SNYDER, T. E., and REED, W. D., 1949, p. 10. Buildings and wood boxes on ammunition dumps, protected in U.S. and Tropics by soil poisons: sodium arsenite, benzene hexachloride, chlorinated phenols and benzenes, monochloronaphthalene and DDT.)
- SNYDER, T. E., and ZETEK, J., 1924, pp. 23-24. (Panama, placing paradichlorobenzene in openings in mounds, or in underground galleries; sodium cyanide sprayed on ground after mounds have been leveled.)
- 1934, in Kofoid, 2d ed., p. 346. (Panama, soil poisons, poisoning mound and carton nests, poison dusts.)
- SWINGLE, M. C., GAHAN, J. B., and PHILLIPS, A. M., 1941, pp. 9-11. (Phthalonitrile tested as soil poison by Hockenyos method in laboratory, U.S.:
- | Concentration | Hours | Percent kill |
|----------------------|--------|--|
| 1:3,000 (parts soil) | 24-28 | 100, not repelled, penetrated soil to usual depth. |
| 1:4,000 | 3 days | 93 |
| 1:5,000 | 3 days | 93 |
| 1:10,000 | 5 days | 12 |
- Orthodichlorobenzene at concentration of 1:1,000 repelled termites, preventing penetration soil, but caused no mortality within 4 days.)
- 1945, pp. 1-23. (Preliminary tests synthetic organic compounds.)
- SWINGLE, M. C., MAYER, E. L., and GAHAN, J. B., 1944, pp. 672-677. (Synthetic organic compounds tested as soil poisons, relative toxicity, U.S.)
- SWINGLE, M. C., PHILLIPS, A. M., and GAHAN, J. B., 1944, pp. 1-134. (Synthetic organic compounds tested as in 1941 as soil poisons, termites, pp. 3, 5, 8, 10-25, 28-70, 72, 81, 85, 88, 102, 114, 122-123, 130, 132-133.)
- TURNER, N., and ZAPPE, M. P., 1938, pp. 208-217. (Efficiency of soil poisons in Connecticut.)
- UICHANCO, L. B., 1931, pp. 601-603. (Philippines, water and oil treatments soil-inhabiting termites.)
- VON SCHRENCK, H., 1938, pp. 290-306. (Soil poison tests at Florissant, Mo.)
- 1945, pp. 142-168. (Trichlorobenzene effective in Missouri soil poison tests.)
- WAIL, R. O., and POWELL, A. R., 1927, pp.

- 125-140. (Importance of nest structure in control certain South American termites with Cyanogas, calcium cyanide.)
- WHITE, A. N., 1952, p. 18. (Texas, soil poisoning may be used to control termites.)
- WOLCOTT, G. N., 1947a, pp. 1-18. (Termite repellents, BHC, DDT, etc.)
- ZACHER, E., 1914, p. 35. (Tropics, preventive injury to root crown, mixture 5 parts petroleum, 2½ parts soap, and 100 parts water stirred hot; to poison balls of thick paste, 1 part arsenic, 2½ parts soda, 6 to 8 parts molasses or syrup mixed with meal and laid near nests as poison bait.)

SOUND

- ANONYMOUS, 1923, p. 53. (Soldiers warn by rapping heads on floor, East Africa.)
- BUGNION, E., 1913c, pp. 125-135, 136-139. (Sound-producing termites, India.)
- BUXTON, P. A., 1923, pp. 271-273. (Two further cases coordinated rhythm.)
- CONNOR, F. P., 1933, p. 1018. (Rhythmic sound produced by termites at work, India.)
- EMERSON, A. E., 1929a, pp. 722-727. (Communication among termites; discussion by N. A. Kemner included.)
- EMERSON, A. E., and SIMPSON, R. C., 1929, pp. 648-649. (Communication among termites.)
- GOUNELLE, E., 1900, pp. 168-169. (Sound produced by two species American termites.)
- MARCUS, H., 1947, pp. 39-44. (Stridulating organs in nasute termite, Bolivia.)
- SNYDER, T. E., 1935e, pp. 28, 32, 51. (Communications, signals, by sound.)
- 1948, pp. 57-58. (Communication and sound production.)
- 1952d, pp. 33-34. (History of microphones.)
- THYAGARAJU, A. S., 1934, p. 745. (Sound produced by termites at work, harsh grating, "bur bur bur," India.)
- WILLIAMS, C. B., 1922, p. 174. (Quotes Gounelle, 1900, sound produced by large number termites, Brazil, tapping their heads on dried leaves bromeliads, not rhythmic, "like pinch of sand hitting paper.")

SPERMATOGENESIS

- GRASSÉ, P. P., 1937a, pp. 1677-1679. (Aberrant spermatogenesis in the Metatermitidae.)
- GRASSÉ, P. P., and BONNEVILLE, P., 1936, p. 1009. (Abortive or atypical spermatogenesis in *Bellicositermes natalensis*.)
- STEVENS, N. M., 1905, pp. 1-32. (Spermatogenesis in *Zootermopsis* with special reference to the accessory chromosomes; male nymphs diploid chromosomes number 52.)

SUPERORGANISM, SUPRAORGANISM, COLONY AS

- ALLEE, W. C., 1943, pp. 517-525. (Cooperative principle the central point in "grand strategy of evolution.")
- ALLEE, W. C., et al., 1949, pp. 420, 435, 692-695, 698, 718-729. (Supraorganism.)
- BOUVIER, E. L., 1918, p. 299. (Superorganism.)
- EMERSON, A. E., 1939b, pp. 182-209. (Social coordination and the superorganism.)
- 1942a, pp. 163-176. (Basic comparisons of human and insect societies.)
- 1947, pp. 337-345. (Populations undergo evolution to supraorganisms.)
- 1949, in Allee et al., p. 698. (Termites.)
- 1952a, in France, pp. 333-354. (Supraorganismic aspects of the society, comments by other isopterists.)
- LÜSCHER, M., 1953, pp. 74-76, 78. (If colony regarded as a superorganism, caste determination is an embryological problem.)
- MAETERLINCK, M., 1927, pp. 1-238. (Colony may be regarded as one living creature subject to one central law, the "spirit of the colony.")
- MARAI, E. N., 1937, pp. xv+184. (Soul of the white ant.)
- NOYES, H., 1937, pp. xlv+289. (Habits of *Macrotermes natalensis* and man.)
- SNYDER, T. E., 1948, pp. 6-7. (Quotes Emerson, 1939, and Maeterlinck, 1927; and authors of several popular books who regard the termite colony as a whole—as is the human body, workers represent red blood corpuscles, soldiers white, outer surface nest the skin, and the queen the brain. (The worker would appear to be the brain.) Emerson believes the social organismic analogies more comparable with the primitive multicellular animals, as the sponge.)
- WEISMANN, A., 1893, pp. 309-338, 596-610. (The all-sufficiency of natural selection.)
- WHEELER, W. M., 1911a, pp. 307-325. (Colony as an organism, ant.)

TAXONOMY (LIVING)^{3, 4}

- AHMAD, M., 1949, pp. 1-11. (*Cyclotermes* placed in synonymy with *Odontotermes*.)
- 1950, pp. 39-86. (Phylogeny of genera based on imago-worker mandibles.)
- 1952, p. 71. (India, Pakistan, *Cryptotermes bengalensis* synonym of *C. havilandi*.)
- 1953a, pp. 37-41. (*Coptotermes emersoni*, *Odontotermes* (*Hypotermes*) *winifredi*, n. spp., Ceylon, winged *Nasutitermes ceylonicus*.)
- ANONYMOUS, 1925b, p. 198. (South Africa, new species, not named.)
- ARAUJO, R. L., 1954, pp. 181-189. (Brazil, *Paracornitermes*, n. spp., *emersoni* and *hirsutus*.)
- BLANCHARD, C. E., 1840*, pp. 46-47. (*Termes obscurum*, *morio*, *flavicolle*, *lucifugum*.)
- BRUES, C. T. MELANDER, A. L., and CARPENTER, F. M., 1954, pp. 121-125. (Keys to families.)
- CACHAN, P., 1949, pp. 177-275. (Madagascar, new species: *Neotermes isaloensis*, *convexifrons*; *Glyptotermes longiceps*, and sp.; *Microtermes sakalava*; *Microcerotermes longiceps*, *unidentatus*; *Cubitermes subinteger*; *Microtermes incisus*; *Eutermes milloti*, *canaliculatus* (= *laticeps*), 3 forms, *neonanus*; *Coarctotermes pauliani*, *beharaensis*, keys.)
- 1951, pp. 1-18. (Madagascar, descr. *Proneotermes delphinensis*; *Glyptotermes alao-tranus*; *Gibbotermes* in Microcapritermitinae for *Cubitermes subinteger* Cachan, with *G. mandibularis*, *longiceps*, *minor*, *major*, and *sakarahensis*; *Nasutitermes vadoni*.)
- COATON, W. G. H., 1949b, pp. 13-77. (South Africa, Hodotermitidae and Kalotermitidae; new species: *Kalotermes capicola*, *munroi*, *mkuzii*, *sibayiensis*; ? *Glyptotermes umtatae*, ? *G. sordwanae*.)
- 1950a, pp. 3-32. (South Africa, *Cryptotermes naudei*, Zululand, keys.)
- DESNEUX, J., 1950, p. 735. (*Apicotermes* of tropical Africa, *A. arquieri*, n. sp., nest only described.)
- EHRHORN, E. M., in Kofoid, 1934, 2d ed., p. 323. (Key to Hawaiian termites.)
- EMERSON, A. E., in Snyder, 1949b, pp. 1-490. (New genera, pp. 374-377: (*Acorhinotermes*, *Dentispicotermes*, *Planicapritermes*, *Procornitermes*, *Triacitermes*, *Parvitermes*, *Bulbitermes*, and *Paracornitermes*; new names or new species, *Kalotermes hilli*, n. name; *Schedorhinotermes holmgreni*, n. sp.; *Speculitermes proratus*, n. sp.; *Cylindrotermes parvignathus*, n. sp.; *Orthognathotermes aduncus*, n. sp.; *Termes medioculatus*, n. sp.; *Odontotermes* (*O.*) *nilensis*, n. sp.; *Cornitermes silvestrii*, n. sp.; *C. snyderi*, n. sp.; *Armitermes silvestrii*, n. sp. and *Convexitermes nigricornis*, n. subsp. *junceus*.)
- 1950, pp. 1-15. (South America and Madagascar, new genera: *Glossotermes*, *Genuotermes*, *Spicotermes*, *Quasitermes*, *Cornicapritermes*; *Glossotermes oculatus*, *Genuotermes spinifer*, *Spicotermes brevicarinatus*, *Quasitermes caprinus*, and *Cornicapritermes mucronatus*, Rhinotermitidae and Termitidae.)
- 1952a, in France, p. 342. (Comparison *Apicotermes* nests.)
- 1952b, pp. 479-539. (*Procornitermes* and *Cornitermes*, genera, species—including 2 and 7 n. spp., respectively, keys.)
- 1953, pp. 101-121. (Africa, *Apicotermes*, discussion phylogeny, 2 new species, *A. desneuxi* and *A. porifex*.)
- 1955, pp. 1-3. (Ecological and physiological species.)
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- FEYTAUD, J., 1950, pp. 380-381. (*Reticulitermes flavipes*, *santonensis* (subsp. or var.); several species or subspecies present in France confused under *R. lucifugus*.)
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- 1952, pp. 291-342. (*Macrotermes ivorensis*, n. sp., described, p. 333; *Microtermes usambaricus*, n. sp., described, p. 338.)
- HAGEN, H. A., 1866a, pp. 219-220. (Synonymy.)

³ Papers cited in Snyder, T. E., 1949, Catalog of the Termites (Isoptera) of the World, Smithsonian Misc. Coll., vol. 112, pp. 490, Nov. 1, are not relisted.

⁴ See also Taxonomy (Fossil.)

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 1953a, pp. 261-262. (Belgian Congo, *Microtermes pallidiventris*, n. sp.)
 1954a, pp. 493-496. (Socotra, Indian Ocean off Africa, *Procryptotermes* and *Amitermes*, n. spp.)
 1954c, pp. 127-137. (East Africa, *Microcerotermes masaiaticus*, im., sold., Kenya; *M. nemoralis*, im., sold., Tanganyika; *Pericapritermes dumicola*, sold., Tanganyika; *Microtermes luteus*, sold., Tanganyika; *Nasutitermes kempae*, sold., Tanganyika; *Grallatotermes africanus*, im., sold., Tanganyika.)
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 1950a, in Craighead, pp. 88-90. (Eastern U.S., keys to species.)
 1952h, pp. 303-305. (*Rugitermes unicolor*, n. sp., Guatemala.)
 1953c, pp. 40-41. (*Gnathotermes* synonym *Macrotermes*; *Hodotermes japonicus* is a damaged carwig.)
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 1954e, p. 38. (Determination termites introduced into U.S.)
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TAXONOMY (FOSSIL)⁵

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⁵ Papers cited in Snyder, T. E., 1949, Catalog of the Termites (Isoptera) of the World, Smithsonian Misc. Coll., vol. 112, p. 490, Nov. 1, are not relisted.

- 1949b, p. 378. (*Parastylotermes* Snyder and Emerson, n. gen., Miocene, Washington State.)
- 1950b, pp. 190-193. (U.S. fossils and their living relatives.)
- 1953c, pp. 40-41. (Fecal pellet *Cryptotermes brevis* from Peru, described as Foraminifera.)
- 1955a, p. 32. (*Parastylotermes frazieri*, n. sp., from Miocene, California, U.S.)
- 1955c, pp. 79-80. (California, U.S., *Parastylotermes frazieri* Sny.)
- STONE, B., 1950, p. 17. (Recent termite pellet described by W. Berry in 1928 and included in Catalog of Foraminifera as "*Lagena samanica*," Upper Eocene, NW. Peru.)
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TEMPERATURE

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- BEALL, G., 1931, pp. 33-35. (*Termopsis* freezing and thawing, British Columbia; 2 species, *Termopsis angusticollis* and *nevadensis*, tolerant to water and cold.)
- CASTLE, G. B., in Kofoid, 1934, 2d ed., p. 286. (*Zootermopsis* and temperature.)
- COOK, S. F., and SMITH, R. E., 1942, pp. 211-219. (Metabolic relations, Protozoa symbiosis, temperature effects.)
- EBNER, R., 1926, pp. 75-76. (Anglo-Egyptian Sudan, *Termes bellicosus*, temperature 27° C. in nests, 56° in sun, 43° in shade.)
- EHRIORN, E. M., in Kofoid, 1934, 2d ed., p. 330. (Use of heat chambers to control dry-wood termites infesting wooden railroad cars, Hawaii.)
- EMERSON, A. E., in Kofoid, 1934, 2d ed., p. 117. (Map world showing distribution isotherm limits.)
- GEYER, J. W. C., 1951a, pp. 36-43. (In a supplementary fungus garden of *Termes badius*, South Africa, at depth 18 in. temperature fluctuated 13.1° C. and 13.9° C. in surrounding soil; temperature in garden not constant, followed that of soil at equal depths but always a few degrees warmer.)
- HOLDAWAY, F. G., and GAY, F. J., 1948, pp. 464-493. (Temperature mound *Eutermes exitiosus*, Australia, not constant, varies with time of day and environmental temperature; temperature of nursery continuously higher than air or soil, follows seasonal change in air temperature. Temperature of occupied mound higher (14.5° to 18.6° F.) than unoccupied due to metabolism termites. Fewer termites in mound in summer than winter. Presence alates raises temperature 10° to 13° F. Mound temperature enables determination difference between populous and nonpopulous nests; i.e., vitality of colony can be checked by temperature variation.)
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- KOFOID, C. A., 1934, 2d ed., pp. 17, 19. (Temperature and termites of U.S.; p. 20, *Coptotermes formosanus*, Hawaii.)
- MORGAN, A. H., 1940, pp. 176-177. (Animals in winter.)
- O'KANE, W. C., and OSGOOD, W. A., 1922, pp. 1-20. (Supplementary steam piping in hospital, Dover, N.H., raised temperature to 135° F. for 48 hours, and Phintox oil soil poison, controlling *Reticulitermes flavipes*.)
- SNYDER, T. E., 1915, p. 45. (Center of activity termite colonies species *Reticulitermes* in Eastern U.S. changes with seasons; in spring and autumn, southern exposures favorable for developing young, in summer heat more deeply buried in ground; in winter, cold forces termites deeper in ground.)
- 1916, pp. 4-5. (Center of activity termite colonies species *Reticulitermes* in Eastern U.S. changes with seasons; in spring and autumn, southern exposures favorable for developing young, in summer heat more deeply buried in ground; in winter, cold forces termites deeper in ground, in arid regions deep in ground; heat of sun or oven to kill termites infesting books or other stored material.)
- 1916a, p. 18. (Use heat to kill termites in books, etc.)
- 1919a, p. 15. (Use heat to kill termites in books, etc., temperatures over 160° F. will be fatal.)
- 1920*, in (Banks and) Snyder. Nest location varies with temperature (*Reticulitermes*), p. 91; in southwestern U.S. during dry seasons when earth is caked and

- cracked *Nasutitermes* ("Eutermes") deep in soil, p. 92; in winter colonies *Reticulitermes* in ground below frost line, p. 110.)
- 1926c, pp. 6-7, 18. (Location colony *Reticulitermes* in U.S. varies with season. Dry-wood termites *Cryptotermes brevis* in southern Florida killed in furniture in attic with glass skylight where sun's rays caused temperatures 17° to 24° F. higher than the maximum outdoor temperature. Temperatures of 120° F. are lethal.)
- 1931*, p. 535. (Heat chambers for control dry-wood termites infesting railroad cars and furniture, Hawaii, 150° F. for 1½ hours.)
- 1935e. (Heat chambers for control dry-wood termites infesting railroad cars and furniture, Hawaii, 150° F. for 1½ hours, p. 152; utility poles U.S. infested dry-wood termites, effective heat treatment, p. 157.)
- 1948, pp. 12, 81, 88, 192-194, 201. (*Kaloterms* in Virginia pass winter in interior wood dead trees; *Zootermopsis* Pacific Coast, North America, and *Archotermopsis*, North India, inhabit ice- and snow-covered logs and stumps in winter. Temperatures ranging from 80° to 90° F. most favorable for tube building by *Reticulitermes*; heat of 150° F. maintained for 1½ hours or 140° for 4 hours will raise the interior of wood furniture to 120° F., lethal to termites; use heat in Hawaii, freezing at 16° to 27° F. for 4 days will kill dry-wood termites in furniture; heat and cold used to kill termites infesting books, etc.)
- VOLK, H. O., 1952, pp. 41-43. (Climate foundation in termite nest, fungus growers.)

TERMITOPHILES⁶

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- 1913, pp. 187-316. (*Termitoxenia assmuthi*, anatomy, India, Dipt.)
- BACON, G., 1913, p. 113. (Collembola, *Entomobrya binoculata*, California.)
- BARNARD, K. H., 1932, p. 212. (South Africa, terrestrial isopod *Schöbllia fulleri* (*Termitoniscus* Silvestri), Trichoniscidae.)
- BELT, T., 1873, p. 222. (Parrots in termite nests, plains of Nicaragua.)
- BERNHAEUER, M., 1927, pp. 225-240. (Africa, Staph., Col.)
- 1927a, pp. 366-385. (Africa, Staph., Col., *Termitolara opacella*, p. 366.)
- 1932, p. 157. (Belgian Congo, Staph., *Termitogerrus*, subgen. in *Termitodiscus*, based on *T. burgeoni*, from nest *Termes natalensis*.)
- 1938, pp. 119-126. (Two new genera African Staphylinidae.)
- BICKHARDT, H., 1916, pp. 1-112. (Histeridae.)
- BÖRNER, C., 1913, pp. 274-284. (New Collembola.)
- BÖVING, A. G., 1927, pp. 51-62. (Anobiidae, *Neuvermannia dorcatomoides* larva, Costa Rica.)
- BORGMEIER, T., 1923, pp. 323-346. (Phoridae, Brazil.)
- 1924, pp. 167. (Phoridae, Brazil.)
- 1935, pp. 488-495. (Blind phorid *Cryptophora coeca*, p. 490, with *Syntermes*, Brazil, near *Termitophorides*.)
- 1950, pp. 625-676. (Brazil, n. sp. in *Termitonilla* n. gen., *Abroteles*, *Termitopelta*, n. gen., *Termitonusa*, *Termituncula*, *Xenogaster*, and *Termitophya*. Col., Staph.)
- 1954, pp. 201-214. (Brazil, Psel., Col., *Termitotyryus*, n. gen., *Syrmocerus*, *Hamotus*, *Apharus*, and *Neotyryus*, n. spp.)
- BOUCOMONT, A., 1936, pp. 229-231. (Three new Acanthocerinae (Scarab.) from Costa Rica.)
- BRAUNS, H., 1900, pp. 164-168. (A new aphodier, Scarab., Col., *Gorythoderus marschalli* with *Termes tubicola*, Orange Free State.)
- BREDDIN, G., 1903, p. 75. (A termitophilous Lygäide, Hemiptera.)
- BREDDIN, G., and BÖRNER, C., 1904, pp. 84-93. (*Thaumatoxena wasmanni*, phorid, Dipt.)
- BROWN, C. B., 1876, p. 154. (Trogon nesting in termite nest, British Guiana.)
- 1916, p. 433. (Trogon nesting in termite nest, British Guiana.)
- BROWN, J. M., 1920, pp. 480-482. (Collembolan, West Africa.)
- BRUCH, C., 1930, pp. 31-42. (*Termitolister köhleri* from nest *Cornitermes similis*, Argentina, p. 39.)
- 1931, p. 389. (Argentina, *Termitozophilus*

⁶ (Including casual seekers of shelter; some may be predacious on the host termites, or parasites.)

- laetus* from nest *Cornitermes similis*, Col., Staph.)
- 1937, pp. 125-133. (Col., Hist., Staph., Argentina.)
- BRUES, C. T., 1902, p. 184. (Texas, *Termitogaster texana*, Col., Staph., with *Eutermes cinereus*.)
- 1906, pp. 16-17. (Phoridae, *Termitoxenia*, and *Termitomyia*.)
- 1908, p. 942. (Hermaphroditic phorid *Termitoxenia*, and embryology certain degenerate Phoridae.)
- 1923, p. 432. (Braconid *Termitobracon emersoni*, Hymen., in nest *Nasutitermes ephratae*, British Guiana.)
- 1932, pp. 134-138. (Phoridae, Trinidad.)
- 1932a, pp. 139-144. (Phorid, *Ptochomyia* sp., from nest *Macrotermes natalensis*.)
- BUGNION, E., 1913a, pp. 121-123. (*Termitoxenia*, Dipt.)
- 1914e, pp. 218-220. (*Termitoxenia*, Dipt.)
- BUGNION, E., and POPOFF, N., 1913, pp. 23-44. (*Termitoxenia* Dipt., histology.)
- BURGEON, L., 1946, pp. 225-226. (*Stenovalgus*, n. sp., Col., Scarab., Ivory Coast, Africa.)
- CAIN, S. A., 1944, p. 370. (*Nasutitermes guayanae* harbors 4 beetles: *Termitophya amica*, *Xenopelta cornuta*, *Thyreozenus major*, and *Eburnicola leucogaster*; *N. similis* harbors *Termitophya punctata* and *Xenopelta tricornis*; difference in termitophiles led Emerson to establish physiological race *similis*, although structural differences are minor.)
- CAMERON, M., 1919, pp. 83-87. (New Staphylinidae from Rhodesia.)
- 1926, pp. 171-191. (New Staphylinidae from Rhodesia, from India, p. 171, *Termitodiscus minutus*, p. 172; *Doryloxenus*, 3 new species.)
- 1927, pp. 222-224. (India, Staph., *Rhopalinda termitophila* and *Demerinda termitophila* devouring young termites.)
- 1930, pp. 419-421. (Belgian Congo, Staph., *Termitobia burgconi*, *Termozyras*, resembling *Termitopaedia*, based on *T. politus*.)
- 1936, p. 184. (Java, new Staphylinid *Termitodonia*, subgenus of *Zyras*, *Z. flavus*.)
- 1952, pp. 323-332. (Belgian Congo, new Staphylinidae, *Termitusa*, etc.)
- CAPORIACCO, L. DI, 1936, p. 84. (Fezzan, *Scortecia termitarium* (Corinninae) from termitarium, spider.)
- CASEY, T. L., 1889. (New genus termitophilous Staphylinidae, pp. 384-387; termitophilous Coleoptera from Panama, pp. 39-198.)
- 1890, pp. 307-504. (Termitophilous *Thysanura*.)
- CHAMBERLAIN, R. W., 1943, pp. 39-48. (*Iso-toma spatulata*, n. sp., a termitophilous Collembola with *Termopsis angusticollis*, Eugene, Ore., p. 43.)
- CHAMBERLIN, R. V., 1923, pp. 411-421. (Four termitophilous millipeds, British Guiana.)
- CHAMPION, G. C., and WASMANN, E., 1923, pp. 569-581. (New Aphodiid (Scarab., Col.) beetles from British India, with *Odontotermes*.)
- CHOPARD, L., 1927, pp. 225-228. (Cricket, *Eugrylloides pomeroyi*, n. sp., Gold Coast, Africa.)
- 1938, pp. 105-107. (Orthoptera, crickets, roaches, earwig.)
- 1946, pp. 114-116. (Gryllid, *Phacophilaenis grassei* in nest *Protermes minutus*, West Africa.)
- COSTA LIMA, A. DA, 1952, pp. 163-170, 313-351. (Coleoptera, Brazil, bibliography.)
- COWLES, R. B., 1930, pp. 1-31. (Nile monitor, *Varanus niloticus*, in termite nests in Natal, South Africa.)
- CUSHMAN, R. A., 1923, p. 55. (*Ypsistocerus manni* (Braconidae) in nest *Nasutitermes ephratae*, Bolivia, and *Y. vestigialis* in nest *Nasutitermes corniger*, Bolivia.)
- DELAMARE-DEBOTTEVILLE, C., 1947a, pp. 456-458. (Biology Collembola, ecological conditions microclimate nest determine what species are present, new ecological classification.)
- 1948c, pp. 90-91. (Collembolan—*Calobatinus grassei* rides on head soldiers *Bellicositermes*, seizes food when worker feeds soldier, leaps off instantly if termite is disturbed.)
- 1948d, pp. 261-425. (Collembola: family Cyphoderidae contains most termitophiles, diagnoses and keys. Progressive specialization due to isolation in termite nests. Degree of relationship to host: accidental commensals, preferent, obligatory and historic obligatory. Obligatory group highly specialized, live on exudates from queen, secure food from workers or feed on fungi. All occur with the Termitidae except *Megacyphoderus silvestrii* which is associated with *Reticulitermes lucifugus* in France.)
- DENNIS, J. R., 1942, pp. 1-19. (New Collembola, *Cyphoderus*, n. spp., *Calobatina*, n. sp., *Cyphoderinus*, n. gen.)
- DITMARS, R. L., 1907, p. 322; 1910, p. 217. (Reptiles, Glauconidae in tropical "ant-hills.")

- 1951, p. 126. (Leptotyphlopidae in ant hills.)
- DONISTHORPE, H. ST. J. K., 1900, pp. 41-43, 72-75, 87-89, 110-119, 147-150, 204-206. (Guests.)
- DUCKE, A. (1902) 1903, pp. 285-328. (Stingless bee *Melipona* (*Trigona*) *dallatorreana* in termite nest, Para, Brazil.)
- DYBAS, H. S., 1955, pp. 561-577. (Neotropical beetles, Ptiliidae Trichopterygidae.)
- EBNER, R., 1926, pp. 75-76. (Anglo-Egyptian Sudan, gecko, rhynchotid, myriapod, and coleopteron, *Tmesiphorus* sp.)
- EDWARDS, F. W., 1927, p. 359. (Java, *Termitosciara* ? *megacantha*, Mycetophilidae.)
- ELTRINGHAM, H., 1935, pp. 49-51. (Nyasa-land, larva *Passalacis tentatrix*, Lepid.)
- EMERSON, A. E., 1923, p. 160. (Classification nests, guests.)
- 1929b, pp. 1008-1009. (British Guiana, ecological relationships.)
- 1935, pp. 369-395. (Termitophilous distribution and quantitative characters as indicators of physiological specification in British Guiana termites; 6 Staphylinidae indicate 2 physiological species *Nasutitermes guayanae* and *similis*.)
- 1949, in Allee et al., p. 422 (figure of physogastric aphelinid near queen in royal cell), 429, 430, 615, 665, 675, 698, 718-721, 722.
- 1952b, pp. 489, 510. (With species *Procornitermes* and *Cornitermes*, South America.)
- ENNIS, M. W., 1946, p. 186. (Mounds, use by bees, Ovimbundu, Portuguese West Africa, went in and out of abandoned mound through chimney.)
- ESCHERICH, K., 1905, p. 164. (Lepismids.)
- 1906, pp. 739-749. (Thysanura.)
- 1908b, p. 33. (Termitophiles, Erythrea.)
- FAGE, L., 1936, pp. 83-87. (*Andromma bouvieri*, n. sp., Arachn., Aran.)
- 1938, pp. 369-376. (Costa Rica, Arachn.)
- FISHER, W. S., 1927, pp. 49-50. (Anobiidae, *Nevermannia dorcatomoides*, Costa Rica.)
- FOLSOM, J. W., 1923, pp. 383-402. (Apterygota (Collembola), British Guiana.)
- FRANSSON, C. J. H., 1933, pp. 337-338. (*Termitoxenia*.)
- 1934, pp. 15-17. (Eggs, larvae, pupae, Javanese Termitoxeniidae.)
- 1936, pp. 62-65. (Eggs, larvae, pupae, Javanese Termitoxeniidae.)
- FROST, S. W., 1942, pp. 252-255. (About 1,200 species of small Crustacea and arthropods inhabit the nests of social insects.)
- FULLER, M. E., and LEE, D. J., 1938, pp. 75-80. (New phorid, *Diploneura gynaptera*, N.S. Wales.)
- GESTRO, R., 1890, pp. 903-907. (Burma, *Chaetopisthes termiticola*; *Termitopisthes*, Col., Scarab., relationship.)
- 1900, pp. 743-744. (Eritrea, new genus *Rhysopaussidae*.)
- 1911, pp. 5-7. (*Rhysopaussidae*.)
- GOELDI, E. A., 1897, p. 648. (Reptile, *Tupinambis nigropunctatus*, laying eggs in termite nest.)
- GOSSE, P. H., 1851, p. 118. (Jamaica, inhabitants deserted nest, yellow-bellied parrotquet (*Conurus flaviventis*) and pallete-tip gecko (*Sphaeriodactylus agrus*.)
- GRASSÉ, P. P., 1939c, pp. 831-832. (Habits and relationships *Troctonius appendiculatus*, Col., Meland., and *Microcerotermes fuscotibialis*, observations colony, beetle larvae fed by termite workers, Africa.)
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- 1927, pp. 1-33. (*Termitosuga* and *Euceroncinus* beetle larvae, Java.)
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- 1926, pp. 151-155. (Three new beetles, British Guiana, Staphylinidae: *Poduroides bövingi*, with *Nasutitermes gaigei*; *Termitonicus mahout*, *Velocitermes bebei* *Termitospectrum thoracicum*, *N. gaigei*.)
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- 1932, pp. 366, 372. (Termitaphididae (Hemiptera-Heteroptera) and *Termitaradus jamaicensis*, n. sp., with *Heterotermes convexinotatus*, Jamaica, *T. australiensis*, with *Coptotermes acinaciformis*, redescribed *T. guianae*, description egg.)
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- 1945, pp. 277-327. (Pselaphidae of the Guianas.)
- 1945a, pp. 331-443. (Pselaphidae of Mexico and Guatemala.)
- 1946, pp. 445-451. (Pselaphid *Hamotocellus araujo*, n. sp., Brazil.)
- 1946a, pp. 457-468. (Pselaphidae, Guatemala.)
- 1947, pp. 45-132. (*Batrisodes*, Pselaphidae east of the Rocky Mountains.)
- 1947a, pp. 27-42. (Pselaphidae, 4,800 beetles 0.7 to 5.5 mm. long with short elytra—15% live in nests ants and termites, from tolerated intruders to true guests. Setae produce secretion which is licked. Larvae and pupae are unknown.)
- 1948, pp. 137-169. (Checklist *Batrisodes*.)
- 1948a, pp. 181-192. (New and little known *Reichenbachia* (Pselaphidae) from Guerrero.)
- 1948b, pp. 203-221. (Japanese Pselaphidae.)
- 1949, pp. 251-266. (Pselaphid genus *Connodontus*, Ethiopian, with *Macrotermes*.)
- 1949a (with S. Auerbach and M. Wilson), pp. 267-276. (Pselaphid beetles from Illinois prairie, and the prairie peninsula hypothesis.)
- 1949b, pp. 315-343. (New nearctic pselaphid beetles and revision genus *Cedius*.)
- 1950 (with S. Auerbach and G. Corley), pp. 19-56. (Tree hole habitat pselaphid beetles.)
- 1950a (with R. A. Edgren), pp. 1-2. (Second record of predation on pselaphid beetles.)
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- 1952b, pp. 1-60. (Pselaphidae, Oceania.)
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- 1953a, pp. 299-331. (U.S., discrimination of genera of pselaphid beetles.)
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- 1948, pp. 15-17. (Madagascar, *Millotoca termitidis* from nest *Mirotermes*, Corotocini (Staph.))
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- POULTON, E., 1936, p. 98. (Tineid larva of genus *Passalactis*, Nyasaland.)
- PURCELL, W. F., 1904, p. 409. (Africa, isopod.)
- RAFFRAY, A., 1914, pp. 463-465. (New genera and species Pselaphidae.)
- REHN, J. A. G., 1926, pp. 1-24. (Blattidae, *Dyscolognaia wollastoni*, commensal, Central Africa.)
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- 1922, pp. 34-83. (Staphylinidae and Endomychidae, Africa.)
- 1923b, pp. 313-336, 243-252. (New South American Histeridae.)
- 1924, pp. 117-153. (New South American Histeridae, pt. 2.)
- 1925, pp. 351-357. (Histeridae from mounds *Eutermes* and *Odontotermes*, India.)
- 1929, pp. 132-137. (New beetle (Histeridae, Staph.) guests, p. 136, *Termitusa cameroni*, Tanganyika.)
- 1931, pp. 263-284. (New Histeridae.)
- 1931a, pp. 289-306. (Tanganyika, Termitoxeniidae (Dipt.) distinct from Phoridae; *Termitomyia gracilis*, p. 294; *Termitostroma*, resembling *Ptochomyia*, p. 297; type *T. schmitzi*, p. 299; *Termitosagma*, resembling *Termitosphaera*, p. 302; type *T. henningsi*, p. 303. New species occur as brood parasites in nests of *Amplitermes natalensis*, Tanganyika.)
- 1932, pp. 6-14. (Costa Rica, guests.)
- 1933, pp. 140-142. (Young form (steno-gastric) of *Termitosagma henningsi* (Dipt.))
- 1936, pp. 382-383. (Termitoxeniidae (Dipt.), hermaphroditism.)
- 1936a, pp. 186-192. (Guests.)
- 1936b, pp. 222-242. (Brazil and Costa Rica, guests, pt. 4, Histeridae: *Cossyphodister schwarzmairi*, Brazil, with *Syntermes* sp.?, *Notocoelis satur*, Brazil, *Cornitermes similis*.)
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- 1854, pp. 1-19. (*Corotoca* and *Spirachtha*, Staph.)
- 1856, pp. 169-183. (Viviparous Staphylinidae.)
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- 1915a, pp. 548-564. (The truth about *Thaumatoxena*.)
- 1915b, pp. 311-330. (Phoridae collected by Assmuth, South India.)
- 1916, pp. 211-266. (New Diptera, Termitoxeniidae and Phoridae, collected by v. Buttel-Reepen 1911-1912, East Indies.)
- 1924*, pp. 302, 304. (Three new PlatypHORINAE, Phoridae (Dipt.), and a new host termite *Eutermes processionarius*, Western Ghats.)
- 1926, pp. 15-16. (New phorid with *Odontotermes obesus*, India, *Puliciphora termitum*.)
- 1929, pp. 1-42. (Patagonia and South Chile, Phoridae in rotten logs with *Porotermes quadricollis*, *Gymnophora comotria*, Chile, p. 23; *Tropophleba varians*, Chile and Argentina, p. 29; *Dicranodeina extravagans*, Chile, p. 31; *Haplophleba nigricans*, Chile, p. 33; *Megaselia paricostalis*, Argentina, p. 42.)
- 1934, pp. 1-148. (Guests.)
- 1936, pp. 27-29. (Hermaphroditism in *Termitoxenia*.)
- 1936c, p. 216. (Reduced wings in Termitoxeniidae.)
- 1938a, pp. 22-40, 55-70, 132-146, 147-162, 13 figs. (Monograph on Termitoxeniidae.)
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- 1951, pp. 128-166. (Africa, Phoridae.)
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- 1939, pp. 1-19. (New genera and species neotropical physogastric Staphylinidae, Aleocharinae, Ecuador.)
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- 1903*, pp. 172-216. (South America.)
- 1910, pp. 37-39. (New genera of Staphylinidae from Singapore.)
- 1911, in Escherich, 1911*, pp. 237-247. (Thysanura, Myriapods, a new genus of termitophilous millipede and a new mimic Coleopterous larva, collected by Escherich in Ceylon.)
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- 1911b, pp. 231-236. (Systematic position genus *Termitaphis*.)
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- 1918, pp. 287-346. (Aptera, West Africa.)
- 1920, pp. 265-319. (West Africa.)
- 1920a, pp. 117-135. (Oriental Diplopoda, *Polydesmoidea*, subfamily Pyrgodesminae.)
- 1921, p. 71. (*Termitaphis annandalei*, n. sp., from India.)
- 1921a, pp. 1-23. (Staphylinidae from the oriental and Australian regions.)
- 1924, pp. 172-175. (New genus of Polydesmidae (Diplopoda) from Costa Rica.)
- 1927, pp. 252-254. (Arthropoda, China and Formosa, Coccidae (Hemiptera), two new species.)
- 1938a, pp. 32-40. (A new species of *Termitococcus* from Brazil, and a related new genus, *Eurhizococcus*.)
- (1939)-1940a, pp. 344-353. (A new genus of Scarabaeidae from Brazil.)
- (1941-1945) 1944, pp. 243-251. (New genera of Lepidoptera (Tineidae) from Brazil.)
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- 1945b, pp. 299-334. (Staphylinidae, South America.)
- 1946, pp. 313-330. (Indo-China.)
- 1946a, pp. 1-22. (Corotocini (Staph., Aleocharinae), South America, with *Constrictotermes*.)
- 1947, pp. 281-295. (Phoridae, Brazil.)
- (1943-1946) 1947a, pp. 123-149. (Termitodiscinae and Cephaloplectinae, Staph., Col.)
- 1947b, pp. 13-40. (Indo-China, second note.)
- 1947c, pp. 74-78. (*Allateluva hilli*, n. gen., n. sp. (Thysanura, Lepismat.) in nest *Mastotermes darwiniensis*, New Holland.)
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- 1894*, pp. 1-231. (Arthropods, critical catalog.)
- 1895, pp. 111-114. (Arthropods.)
- 1895a, pp. 137-139. (Brazil.)
- 1895b, pp. 289-290. (Cicindelidae, *Thoricus*, North Africa.)
- 1896*, pp. 613-630. (New Rhysopausidae (Tenebrionidae) from India, *Rhysopausus*, n. gen., *Xenotermes*, n. gen.; Nachtrag *Azarelius singularis*, n. sp., pp. 149-152.)
- 1896a, pp. 273-324. (Brazil.)
- 1896c, pp. 1-4. (Collecting Coleopterous termitophiles.)
- 1896d, pp. 32-36. (Critical observations.)
- 1897, p. 278. (A new termitophile from German West Africa, *Myrmedonia* (*Rhynchodonia*) *leonina*.)
- 1897a, pp. 276-279. (Nests of *Polybia scutellaris*.)
- 1897b, pp. 28-31. (A new *Myrmedonia* from Burma.)
- 1898, pp. 145 etc. (Guests, adaptation characters, symphily.)
- 1899, pp. 245-249. (Haviland's observations on *Rhopalomelus angusticollis* in nests *Termes latericius*, Natal, other Carabidae.)
- 1899a, pp. 145-169. (Coleoptera, India, *Termitodiscus*, n. gen., 6 n. spp.; Staph., *Myrmedonia*, 3 n. spp., *Chaetopisthes*, *Corythoderus*, host *Termes obesus*; Tenebrionidae, *Hyperops dubia*, host unknown.)
- 1899b, pp. 172-173. (*Pogonoxenus*, a new Tenebrionid genus from Cameroon.)
- 1899c, pp. 178-179. (A new physogastric Aleocharine from Cape Colony, *Termitotropha o'neili*, n. gen., n. sp., host *Termes unidentatus*.)
- 1899d, pp. 401-402. (*Termitodiscus splendidus*, n. sp., from Natal, host *Termes vulgaris*.)
- 1900a*, pp. 244-245. (Pselaphid, Australia, *Copiotermes raffrayi*, n. sp.)
- 1900b, pp. 65-68, 81-84. (Cetonidae, South Africa (Scarabaeidae), Nachtrag, pp. 103-104.)
- 1900c, pp. 599-617. (*Termitoxenia*, a new wingless, physogastric Dipteron from termite nests.)
- 1901, pp. 289-298. (*Termitoxenia*, a new wingless, physogastric Dipteron from termite nests; *Termitomyia* described, Dipt., Phoridae, subgenus *Termitoxenia*, p. 295.)
- 1901a, pp. 421-422. (True guest relationship among termite guests.)
- 1901b*, p. 744. (Development of termitophily and the manner of symphily.)
- 1902, pp. 79-80. (Termitophiles collected in Ceylon in 1899 by W. Horn.)
- 1902a*, pp. 260-265, 293-298, 340-345, 385-390, 422-427, 441-449. (Symbiosis between ants and termites; the appearance of termitophily in the Arthropods.)
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- 1902d, pp. 66-76. (Acarine termitophiles, Acarine riding termites.)
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- 1902f, pp. 95-107. (New insect termitophiles from South America.)
- 1902g, pp. 1-6. (Silvestri's new insect termitophiles from South America.)
- 1902h, pp. 267-268, 275-276, 282. (In 1894, 105 termitophile species, 87 Coleoptera, 59 Staphylinidae; Myrmedonini of East Asia and Africa 10 to 12 mm. in length.)
- 1903, pp. 63-72, 196-207, 233-248, 261-276, 298-310. (Symphily and guest relationship among termite guests.)
- 1903a, pp. 113-120. (The appendages of the thorax among Termitoxeniidae.)
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- 1906a, pp. 212-216. (Guests.)
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1934d, pp. 472-477. (India, chir and fir sleepers impregnated with creosote and liquid fuel oil reduces checking and end-racking, should give 19 years' service.)

1934-1953. (Reports of inspections of preservatives in the Mississippi State Highway Department's test garden, Jackson, Miss., and service records on guard rail posts, 1932-1953, 20th report 1953; coal-tar creosote, pentachlorophenol, and "Chemonite" were outstanding.)

1936m, p. 309. (Northern Rhodesia, 3 years in ground, wood treated with 3% arsenious oxide or 3% sodium arsenite immune to attack by termites.)

1936c', p. 50. ("Permatol" developed by Western Pine Assoc.)

1936d', pp. 44-51. (India, Ascu-arsenic and copper, design of portable wood preservation plant.)

1937, p. 19. (Treated timber mandatory in Los Angeles, Calif., 1936 building code—creosote and chromated zinc chloride for foundation lumber.)

1937a, p. 2. (Treated wood recommended in city building codes.)

1937b, p. 66. (Kansas City, Mo., ordinance makes treated lumber mandatory in city building codes.)

1937d, p. 21. (Proposal to require treated lumber in Kansas City building code defeated.)

1941, pp. 1-7. (Federal specifications, wood preservatives, U.S., TT-W-571b.) See 1950h.

1944, pp. 1-6. (Termite-proofing timber for use in the Tropics.)

1945d, pp. 1-5. (U.S., pentachlorophenol.)

⁷ With particular reference to termites; also poisons for fabrics, fiberboards, and insulation.

- 1946c, pp. 46-47. (New Zealand, oil soluble preservatives brushed at rate 1 coat for every $\frac{1}{4}$ in. thickness timber prevented attack by *Calotermes browni*.)
- 1946d, pp. 1-5. (U.S., salts sap stream treatment, green poles and posts; pentachlorophenol in oil for dipping seasoned poles, posts.)
- 1947g, pp. 1-2. (India, DDT as anti-termite treatment for timber, fabric, and cordage.)
- 1948, pp. 1-20. (U.S., treated wood in buildings to prevent decay and termite attack, U.S. Dept. Agriculture recommendations.)
- 1949l, p. 73. (Australia, phenol-formaldehyde resins more effective than urea-formaldehyde in bonding.)
- 1949n, pp. 1-11. (Kanpur, India, jute sacking treated with DDT and benzene hexachloride.)
- 1950, pp. 1-4. (Australia, superficial coatings with creosote or other preservatives, construction timbers.)
- 1950a, pp. 170-209. (South Africa, protection building timbers, general account preservatives and methods.)
- 1950d, p. 62. (Australia, impregnation with 0.06% Tanalith (based on oven-dry weight timber) gave almost complete protection (laboratory tests); addition 4% pentachlorophenol and 0.13% gamma isomer benzene hexachloride to the glue line of plywood not effective; cellulose acetate butyrate plastic susceptible to termites, polyvinyl chloride and polythene not attacked in tests.)
- 1950e, pp. 1-5. (U.S., factors influencing decay, durability.)
- 1950g, pp. 1-23. (U.S., methods applying wood preservatives.)
- 1950h, pp. 1-5. (U.S., Federal specifications wood preservatives and recommended treating practice, TT-W-571c; revision of TT-W-571b, 1941; pp. 1-7.)
- 1951, pp. 1-26, revision of 1948.
- 1951c, pp. 64-65. (Australia, telephone cables covered with polyvinyl chloride badly damaged, while polythene coverings only surface injured.)
- 1951d, pp. 1-28. (France, treatment wood, cryptogilixylophenes.)
- 1952d, p. 67. (Australia, addition 4.8% crude or 2.0% gamma benzene hexachloride to the glue line of plywoods did not give adequate protection against termites; addition 2% pentachlorophenol or sodium pentachlorophenate to rubber cable sheathing renders it highly resistant; plastic cable sheathings of the polythene or polyvinyl chloride type give inadequate protection. Tests with *Coptotermes acinaciformis* showed it to be twice as voracious as *C. lacteus*.)
- 1953i, pp. 17-19. (U.S., 1952 amount chemically treated miscellaneous lumber and timber showed a 9% increase over 1951; creosote or creosote mixtures were used for 92.5% of all timber treated, gallons used were 3.5% more than in 1951.)
- 1953n, p. 13. (Buena Vista, Va., pressure-treated floor joists, sills, subflooring residence, southern yellow pine 0.75 lb. dry salt—copperized chromated zinc chloride per cu. ft., lumber air dried after treatment. 5,000 bd. ft. lumber in house; pressure treatment susceptible members adds 2% to total construction cost.)
- 1954, pp. 1-5. (U.S., Federal specifications wood preservatives and recommended treating practice, TT-W-571d; revision of 1950h, pp. 1-5; included are Boliden salts and copperized chromated zinc chloride, deleted are zinc chloride and ZMA.)
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- In Mississippi fire-retarding formulation of ammonium phosphate and sulfate plus borax and boric acid lasted 6 years. Southern pine stakes and Douglas fir plywood stakes brushed or briefly dipped

in coal-tar creosote, solutions of pentachlorophenol, copper naphthenate, zinc naphthenate, and phenyl mercury oleate have had 1 to 4 years added life. Plywood stakes soaked 18 hours in pentachlorophenol or mixtures of chlorinated phenols have lasted 7 to 9 years in the Canal Zone. Pine stakes soaked in urea or urea formaldehyde solutions lasted 1 to 1½ and 3 to 4 years longer, respectively, than untreated ones in Mississippi. Pine stakes treated by the double-diffusion method with copper chromate and copper arsenate have lasted 11 years in Mississippi. Plywood stakes impregnated with phenolic resin (impreg) with a low resin content had an average life of 7 years. Laminated paper plastic made with phenolic resin averaged 6 to 8 years resistance to decay and termites. Heat-stabilized birch and maple plywood (staypak) lasted 4 to 6 years, veneer 7/8-in. thickness had better resistance than 1/8 in. because of better distribution of the phenolic resin. Acetylated birch (laminated veneer) resisted decay and termites in Mississippi for 8 years.)

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Posts pressure-treated with Celcure (acid

cupric chromate), coal-tar creosote, 50% coal-tar creosote and 50% used crankcase oil, pentachlorophenol (approx. 5% and 3%) in used crankcase oil, tetra-chlorophenol (approx. 5% and 3%) in used crankcase oil, water-gas tar, and zinc meta arsenite, and those treated by the double-diffusion process with copper sulfate and sodium arsenate have not yet shown a sufficiently high percentage of removals to warrant an estimate on possible average life. The failures of treated posts to date, on the basis of posts installed under the three site conditions, have been heavier in the dry and damp areas than in the swamps. In the installations showing more than 30% of failure, the percentage of failures in the swamps has been significantly high.)

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