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1887-1980

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# A Bibliography of the Sugarcane Borer, *Diatraea saccharalis* (Fabricius), 1887-1980

By Richard M. Roe, A. M. Hammond, Jr., T. E. Reagan, and S. D. Hensley

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## CONTENTS

	Page
Abstract .....	1
Introduction .....	1
Bibliography .....	3
Author index .....	92
References grouped by subject and by period of publication .....	98





# A Bibliography of the Sugarcane Borer, *Diatraea saccharalis* (Fabricius), 1887-1980

By Richard M. Roe,<sup>1</sup> A. M. Hammond, Jr.,<sup>1</sup> T. E. Reagan,<sup>1</sup> and S. D. Hensley<sup>2</sup>

## ABSTRACT

The bibliography contains 1,193 citations taken from 10 standard bibliographic sources and from personal communications and references cited in articles. All articles indexed in the sources under *D. saccharalis* and most of its synonyms are included. Author, subject, and chronological indexes are included. Index terms: bibliographies, *Diatraea saccharalis* (Fabricius), sugarcane borer.

## INTRODUCTION

*Distribution and host plants.*—The sugarcane borer, *Diatraea saccharalis* (Fabricius),<sup>3</sup> occurs in all agroecosystems of the Western Hemisphere where sugarcane (the interspecific hybrids of *Saccharum officinarum* L.) is grown (Williams et al. 1969). Other important cultivated hosts include maize, *Zea mays* L.; sorghum, *Sorghum bicolor* (L.) Moench; and rice, *Oryza sativa* L. Areawide populations of *D. saccharalis* are higher and suppression of the pest is more difficult when one or more of these crops are cultured in the same ecosystem with sugarcane. The sugarcane borer also develops in several large-stemmed wild grasses, particularly when these occur as weeds within or near fields of sugarcane or other cultivated hosts (Holloway et al. 1928 and Hensley 1971).

*Biology and damage to sugarcane.*—The egg masses of *D. saccharalis* are deposited on sugarcane leaves, and the young larvae migrate to and feed in the plant spindles or leaf sheaths until half-grown; they then tunnel into the internodes, complete development, and pupate. The moths exit the stalks through the tunnels constructed by the larvae. There are at least five larval stages, and the life cycle from egg to adult is completed in 30 to 40 days (Hensley 1971).

Four or five generations of *D. saccharalis* occur each year in Louisiana sugarcane fields (Hensley 1971); more occur in warmer tropical climates where perennial growth of sugarcane is not interrupted annually by cold temperatures. During the fall in Louisiana, large larvae enter a state of arrested development termed diapause and overwinter above ground in crop residues or below ground in sugarcane stubs and seed pieces. Diapause of *D. saccharalis* is not known to occur in the tropical ecosystems of Latin America.

The sugarcane borer damages sugarcane by tunneling in the internodes, which reduces tonnage and sucrose quality, stunts growth, weakens stalks, increases the likelihood of lodging and breakage, kills terminal buds and causes

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<sup>3</sup>Lepidoptera:Pyralidae.

suckering, destroys some vegetative buds (eyes) of seed cane, and increases the susceptibility of the cane to pathogens. Reduction in stalk weight is the most significant damage in Louisiana (Long and Hensley 1972). Invasion by stalk-rot pathogens through larval tunnels, particularly infection by the red rot fungus, *Phytophthora tucumanensis* Speg., is believed to be more important in several Latin American countries.

*Pest status.*—*D. saccharalis* has long been considered to be the most destructive pest attacking sugarcane in the Western Hemisphere (Williams et al. 1969). Yield losses average about 13% annually in Louisiana when seasonal infestations are not maintained below the economic threshold of damage (Long et al. 1960 and Pollet et al. 1978). *D. saccharalis* is also a serious pest of maize and sorghum in the Gulf Coast region of the United States and several Latin American countries, especially when these crops are cultured in the same ecosystem with sugarcane.

*Suppression.*—Biological control, especially the introduction or augmentation of larval and egg parasites, is the most common method of suppressing *D. saccharalis* in the Latin American countries (Williams et al. 1969). In Louisiana a combination of cultivar resistance, cultural practices, and conservation of arthropod predators has been successful in suppressing the pest (Hensley 1971, Long and Hensley 1972, and Solomon 1973). Insecticides are applied, but only for quick reduction of economically damaging infestations that are not controlled by the other suppressive measures.

*Bibliographic sources and synonymy.*—To our knowledge, no previous attempt has been made to locate and organize the extensive, diverse literature on *D. saccharalis*, to make it accessible to research and extension workers. Entries for this bibliography were obtained from the following sources: Bibliography of Agriculture (1942, Vol. 1, through 1980, Vol. 44, Nos. 3-4), Biological Abstracts (1926, Vol. 1, through 1980, Vol. 70, No. 12), Biological Abstracts/RRM (1965, Vol. 1, through 1980, Vol. 19, No. 5), Commonwealth Agricultural Bureaux Abstracts (through 1979), Conference Papers Index (through 1979), Comprehensive Dissertation Index (1861-1978), Monthly Catalog of United States Government Publica-

tions (1895 through October 1980), Review of Applied Entomology, Series A (1913, Vol. 1, through 1980, Vol. 68, No. 10), Scisearch (through 1979), the Zoological Record (1887, Vol. 24, through 1975, Vol. 112), and personal communications and references cited in articles. The bibliographic source for each article, with the exception of personal communications and references cited in other articles, is given in brackets at the end of the entry. The abbreviations used are consistent with the bibliographic source from which the article was taken.

The bibliography contains all articles from the above sources that were indexed by the following species names in the genus *Diatraea* (synonyms for *Diatraea saccharalis*, Box 1931): *incomparella*, *obliteratella*, *pedidoceta*, *saccharalis*, *saccharalis crambidoides*, *saccharalis grenadensis*, *saccharalis obliteratellus*, *saccharalis saccharalis*, *sacchari*, and *sacchari brasiliensis*. The bibliography does not include the following synonyms for *D. saccharalis*: *Chilo obliteratellus*, *Crambus leucaniellus*, *Crambus lineosellus*, *Crambus sacchari*, *Diatraetria saccharalis*, and *Phalaena saccharalis* (most if not all of these synonyms predate 1887). For a complete listing of taxonomic references to *D. saccharalis* and its synonyms, see Dyar and Heinrich (1927) and Box (1931). Prior to 1911, all references to *D. saccharalis* included the southern corn stalk borer, *D. crambidoides* (Grote), the southwestern corn borer, *D. grandiosella* Dyar, and the sugarcane borer, *D. saccharalis* (F.) (Rolston 1955). In 1911, Dyar made the southern corn stalk borer a separate species. By 1927, Dyar and Heinrich had cleared up much of the confusion concerning the identity of the species in *Diatraea*. Hence, references to *D. saccharalis* prior to 1927 should be reviewed critically.

*Organization.*—Citations are listed alphabetically by author (last names only), then by publication date, and, if required, alphabetically by title of article and title of journal or book. Unsigned articles are alphabetized under "anonymous" in the bibliography; in the author index they are alphabetized under the agency responsible for the article. The subject table following the author index is a general guide to the information in the entries. Articles are assigned to categories within the subject grid by the year of publication and by the subjects in the abstract, when available, or in the article title.

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## AUTHOR INDEX

### A

Abarca, M., 1  
 Ables, J. R., 2  
 Aburto, V. H., 3  
 Agarwal, R. A., 4-6  
 Agarwal, S. B. D., 7  
 Agriculture Research, 91  
 Aguilar, J. d', 8  
 Ainslie, G. G., 9-10  
 Al-Badry, M. S., 13-4  
 Alam, M. M., 11-2  
 d'Albuquerque, J. P., 162  
 Aldrich, J. M., 15-8  
 Alemañy, A. V., 1126,  
 1134  
 Alfonso, F., 19  
 Allder, C. T., 20-1  
 Alvares, R. C., 101  
 Alvarez, J., 23  
 Álvarez, L., 22, 632  
 Amaral, S. F. do, 24  
 Amargier, A., 782  
 Amargos, J. L., 25-6  
 Amborski, G. F., 1147-8  
 Amborski, R. L., 1147-8  
 Anderson, H. L., 27,  
 1191  
 Angeles, N. J., 28-9,  
 842-4, 913  
 Annand, P. N., 30-4  
 Antigua Agric. Dep., 43,  
 45, 49  
 Antigua Bot. Stn. Exp.  
 Plots, 36  
 App, B. A., 94  
 Araujo, F. E., 95  
 Arbuthnot, K. D., 96-7  
 Arceneaux, G., 409  
 Arellano, M., 1012-5  
 Argentina Minist. Agric.,  
 53  
 Arruda, H. V., 24, 429-  
 31  
 Artega M., J., 966  
 Arthur, V., 997  
 Association S. Agric.  
 Workers, 76

Averna-Saccá, R., 98  
 Ayala Osuna, A., 678  
 Ayguipa, G., 935  
 Azzi, G. M., 99

### B

Babayan, G. A., 100-1  
 Ballou, H. A., 102-5  
 Balzer, A. I., 253  
 Bandyopadhyay, K. S., 655  
 Bangdiwala, I. S., 106-7  
 Banzatto, D. A., 677  
 Barbados Agric. News, 35,  
 37, 39, 41  
 Barbados Dep. Agric., 56  
 Barbados Dep. Sci. Agric.,  
 74, 77, 83-4  
 Barber, T. C., 108  
 Barbosa Filho, G. C., 678  
 Barnes, T. R., 415  
 Barreto, B. T., 109  
 Barreto Dominguez, R.,  
 110, 1106  
 Barry, F. V., 988  
 Bartlett, K. A., 111-5  
 Bates, J. F., 116-7  
 Baum, R. J., 741  
 Beauchamp, C. E., 118-9  
 Beg, M. N., 120  
 Beland, G. L., 121  
 Belcher, B. A., 234  
 Bell, J. V., 657  
 Benjamin, F. H., 122  
 Bennett, F. D., 12, 120,  
 123-30, 718, 893  
 Bercini, R., 1066  
 Bergamin, J., 131-2  
 Bertels, A., 133-4  
 Berti Filho, E., 450-2,  
 793-4  
 Bess, H. A., 135  
 Bishopp, F. C., 136  
 Blanchard, M. A., 396  
 Boas, A. M. V., 851-2  
 Bocanegra, S., 137

Bodkin, G. E., 138-49  
 Bogotá Revista Agricola,  
 38  
 Bonfils, J., 8, 150  
 Bonner, F., 341  
 Bonnot, G., 469  
 Bordage, E., 151  
 Botelho, P. S. M., 152-7  
 676, 712-3, 769-72  
 Bourne, B. A., 158-60  
 Bovell, J. R., 161-2  
 Bowden, J., 163  
 Bowling, C. C., 164-5  
 Box, H. E., 166-233  
 Bradley, W. G., 647  
 Braga, E. R., 331  
 Brandao C., J. M., 934  
 Brandes, E. W., 234  
 Brau de Zuzuarregui, M.,  
 235  
 Breaux, R. D., 626  
 Bregger, T., 236, 749  
 Brêthes, J., 237-41  
 Brewer, F. D., 242-7,  
 454, 658  
 Brieger, F. O., 248  
 British Guiana Dir.  
 Agric., 61  
 Brooks, J. C., 249  
 Bryans, T. G., 250  
 Buffon, A., 251  
 Bull, D. L., 2  
 Burgos, J. A., 735  
 Burleigh, C. H., 732  
 Burns, E. C., 832  
 Burrell, R. W., 252  
 Burton, R. L., 1027  
 Busoli, A. C., 678  
 Buxo, D. A., 415  
 Bynum, E. K., 253-8, 394,  
 573, 597-8, 605-8, 611-  
 8, 620, 641-2, 749, 799

### C

Cabrejos, C., 775

Callan, E. McC., 259  
Camacho, L. H., 813  
Caminha Filho, A., 260  
Campos R., F., 261  
Cancienne, E. A., 262-3,  
701  
Cano, I. B., 965  
Cantelo, W. W., 1027  
Carbonell, C. S., 264  
Carbonell Bruhn, J., 1003-  
4  
Cardosa Montenegro, R.,  
854  
Carl, K. P., 12  
Carvalho, J. H. de, 265-  
6  
Castilho, H. J., 451  
Cavalcante, M. L. S., 95  
Cavalcante, R. D., 95  
Cevallos, A., 267, 752  
Chan, C. B., 268  
Charpentier, L. J., 256-  
7, 269-84, 395, 474,  
504-5, 605-7, 611-6,  
620, 709, 739, 741-4,  
746-8, 751, 755, 757,  
963  
Chaudhry, J. P., 6  
Chen, C. B., 285-8  
Chinloy, T., 289  
Chippendale, G. M., 1192  
Chong, O., 953  
Cleare, L. D., 290-308  
Clower, D. F., 423  
Coburn, G. E., 309-11,  
909  
Cochran, B. J., 312  
Cockerell, T. D. A., 313  
Cockerham, K. L., 378  
Collette, G., 997  
Colmer, A. R., 828  
Comins, H. N., 1029  
Concienne, E. J., 282,  
284, 379-82, 386-93,  
395, 474, 497, 504-5,  
507-10, 690, 692-5,  
697-8, 701-9, 748, 751,  
755, 820  
Cornejo S., R., 314  
Coro, F., 315  
Cortés Iturbe, A., 1  
Costa, J. M. B., 774, 936

da Costa Lima, A., 317  
Costa Spirgatis, J. A.,  
316, 318  
Cotes, E. C., 319  
Crawley, J. T., 321  
Crawley, W. C., 320  
Croal, K., 901  
Crowley, Louisiana Rice  
Exp. Stn., 65  
Cueto Robayna, C. B.,  
322-8  
Curran, C. H., 329

#### D

Dantas, B., 330-1  
Dash, J. S., 332-8  
Davis, E. G., 339  
Davis, L. A., 340-1, 498  
Dekle, G. W., 342-3  
Delattre, P., 344  
Delgado de Garay, A., 345  
Delobel, B., 469  
Dias de Souza, H., 346  
Diaz Azpiazu, M., 1062-3  
van Dine, D. L., 347-52  
van Dinther, J., 353-5  
Dohanian, S. M., 356-8  
Dominguez Llerena, G.,  
359  
Dopson, R. N., 701  
Douglas, W. A., 360  
Dugas, A. L., 361-95, 425,  
474, 533-6, 599-602,  
748, 750  
Duhra, M. S., 957  
Dunckelman, P. H., 236,  
396, 624-6  
Dupnik, T., 437  
Duport, L., 397  
Dutch Guiana Agric. Exp.  
Stn., 60  
Dyar, H. G., 398-9

#### E

Edwards, W. H., 400-7  
Elias, L. A., 408  
Ellis, T. O., 409  
Ellisor, L. O., 410-1,  
603-4  
Etienne, J., 412  
Everett, T., 413

#### F

Falcon C., N., 795  
Fanguy, H. P., 503  
Fernández Aguirre, E., 414  
Fernandez Artiles, R.,  
991-3  
Fernández Pérez, J., 989,  
991-3  
Ferreira, C. E., 936  
Fewkes, D. W., 415  
Figueroa, M., 1127  
Fisk, F. W., 416  
Flanders, S. E., 417  
Flechtmann, C. H. W.,  
418-9, 1071  
Flesh, D., 1106  
Flores Caceres, S., 1, 420-  
1, 948  
Floyd, E. H., 422-3  
Flynn, J. P., 908  
Food and Agriculture  
Organization, Plant Prot.  
Bull., 87, 90  
Forbes, I. L., 425  
Forbes, W. T. M., 424  
Fort, C. A., 758  
Franco, E., 426-8  
Franco do Amaral, S.,  
429-31  
Fretay, E., 432  
Fuchs, T. W., 433-40, 912  
Fuentes Azcuy, A., 100-1  
Fuentes Jiménez, R., 441

## G

Galichet, P. F., 150,  
442-5, 783  
Gallo, D., 446-52, 677,  
793-4, 1108  
Gallun, R. L., 453  
Gantt, C. W., 247, 454-5,  
482  
Garcia Becerra, J. E.,  
950  
García Montalvo, C., 994  
Gaudin, G. R., 506, 964  
Gemignani, E. V., 456  
Giamalva, M. J., 503  
Gifford, J. R., 277, 281,  
457-8, 829-31  
Gomes, F. P., 1108  
Gómez Alvarez, F., 459  
Gossens, P. A., 355  
Gowdey, C. C., 460-5  
Graca, L. R., 466  
Granados Reynaud, G., 994  
le Grand, F., 236  
Grassl, C. O., 749  
Graves, J. B., 764, 910-1  
Greaves, C., 467  
Green, F. S., 468  
Greene, G. L., 343  
Grenada Agric. Dep., 40,  
42, 46, 50  
Grenier, S., 469  
Guagliumi, P., 232, 470  
Guareschi, M., 946  
Guerra, M. de S., 471  
Guimaraes, J. H., 472  
Guthrie, W. D., 453  
Guyton, T. L., 473

## H

Hagen, K. S., 1134  
Haley, W. E., 254, 256-8,  
395, 474, 564-8, 573-5,  
611-6, 620, 743, 745,  
748, 799  
Hammond, A. M. Jr., 475-9,  
499, 1147-8

Harding, J. A., 435-9  
Harland, S. C., 480-1  
Hartley, G. G., 482, 661  
Hayslip, N. C., 619, 749  
Hayward, K. J., 483-9  
von Hedemann, W., 490  
Heinrich, C., 399, 575  
Henderson, M. T., 1114  
Hensley, S. D., 14, 311,  
341, 476-8, 491-510,  
663, 674, 691, 697-8,  
702-9, 723-4, 751,  
760-4, 816-20, 828,  
840, 848, 858-9, 886,  
909-12, 964, 1027  
Herrera A., J., 511  
Hinds, W. E., 512-36  
Hines, C. W., 537  
Hoffman, H., 538  
Holloway, T. E., 255, 539-  
76, 609, 617-8  
Hopkins, S. H., 1102  
Hostounsky, Z., 577  
Howard, L. O., 578-84  
Howell, W., 998-9  
Hrdý, I., 585-8  
Hudson, J. C., 11  
Huffman, F. R., 439-40,  
912  
Hummelen, P. J., 589  
Hung, T. H., 287-8  
Hutson, J. C., 590  
Hynes, H. B. N., 591

## I

Iman A., E., 511  
Incio Paredes, C., 592  
Ingram, J. W., 258, 360,  
383-4, 394, 410, 574,  
593-620, 644, 740, 744-  
5, 750, 990, 1193  
Insect Pest Surv. Bull.,  
75, 79  
International Commission  
on Zoological Nomen-  
clature, 621  
International Society  
Sugarcane Technologists,

## 57

Isa, A. L. A. A., 622

## J

Jackson, R. D., 278, 281,  
623-6, 661, 725, 1050  
James, H. C., 627  
Jarvis, E., 628  
Jasič, J., 587-8, 629-32  
Jaynes, H. A., 411, 610,  
633-42  
Jepson, W. F., 643  
Jeter, B. E. Jr., 902  
Jodon, N. E., 644  
Johnston, J. R., 645  
Jones, S. L., 2  
Jones, T. H., 646-7  
Joyner, H. L., 648  
Ju, L. C., 268  
Junqueira, G. M., 649

## K

Katiyar, K. P., 650-1, 692  
Kevan, D. K. McE., 652-3  
Khan, M. A., 679  
Khan, M. Q., 654  
Khanna, K. L., 655  
Kidder, G., 23  
King, E. G., 121, 245, 455,  
482, 656-61, 722, 764,  
783, 941, 1050  
Kinzer, R. E., 2  
Kirst, L. D., 662-3  
Knipling, E. F., 664-6  
Kopp, A., 667-9  
Korytkowski, C. A., 949  
Kostritzky, L., 670  
Krishnaswamy, S., 903  
Kunhi Kannan, K., 671  
Kuno, G., 672  
Kyle, M. L. Jr., 673-4

## L

La Molina Agric. Exp.  
Stn., 71, 78  
Lamas C., J. M., 675  
Landers, C., 386  
Lara, F. M., 676-8  
Latif, A., 679  
Latson, L. N., 680  
Laude, H. H., 682  
Laviolette, P., 469  
Leiderman, L., 681  
Leidigh, A. H., 682  
Lemaire, Y., 683  
Leonard, M. D., 684-5  
de Lima, R. O. R., 851-2  
Litvin, G., 686  
Llanos, V. V., 687  
Lobdell, R. N., 610  
Loftin, U. C., 569-70,  
575, 688  
Long, W. H., 282, 284,  
500, 507-10, 651, 689-  
709, 751, 755, 841,  
860, 1191  
Lowe, J. A., 726

## M

Macedo, N., 153-7, 710-  
3, 769-72  
Madariaga, A., 714  
Magro, J. A., 1117  
Mahadeo, C. R., 715-6  
Mann, G. A., 458  
Manser, P. D., 717-8  
Marcovitch, S., 719  
Marlatt, C. L., 720  
Martin, D. F., 246-7, 454-  
5, 482, 657-61, 721-2,  
725, 1050  
Martin, F. A., 312, 723-4  
Martinez, A., 948  
Martins, J. F. da S.,  
726-8  
Martorell, L. F., 106-7,  
501, 729-35, 1182-5  
Maskew, F., 736-7

Mason, L. F., 423  
Mathes, R., 275-7, 279-80,  
282-4, 395, 571, 608,  
617-20, 706, 709, 738-  
51, 757, 963, 1158  
Mathieu, J. M., 267, 752  
Mathur, B. L., 753  
Mattioli, A., 1066  
May, D. W., 754  
McCormick, W. J., 252,  
278-80, 283-4, 474, 502,  
504-5, 507-10, 626, 697-  
8, 702-5, 707-9, 742,  
746, 755  
McDonald, R. E., 756  
McGuire, J. U. Jr., 747,  
757  
McKaig, N. Jr., 758  
McNess, G. T., 682  
McPherson, R. M., 759-64  
Meadows, C. M., 765  
Medina, H., 766, 890  
Medina-Gaud, S., 107,  
733-4  
Mejia-Baiggi, F., 735  
Melo, M. S., 95  
Mena, J. A., 767  
Mendes, A. de C., 153-7,  
712-3, 768-72  
Mendonca F., A. F., 773-4,  
936  
Mendoza S., J., 775  
Menor Y Ortega, J. G., 776  
Metcalf, J. R., 777-80,  
1158  
Meyer, A. C., 781  
Meynadier, G., 782  
Miles, L. R., 659-60, 783  
Miranda, C. A., 784  
Miret, A. C., 107  
Miskimen, G. W., 785-9  
Monte, O., 790-1  
Montes, M., 792, 890  
de Moraes, G. J., 451,  
793-4  
de Moraes, R. S., 1002  
Morales, E. N., 795, 935  
Moreira, C., 796  
Morgan, H. A., 797-8  
Morris, J. W., 799  
Morrison, R. K., 2  
Moyano, A., 800

Muesebeck, C. F. W., 801  
Mullins, A. M., 696  
Mungomery, R. W., 1158  
Munro, J. A., 802-3  
Murthy, D. V., 654  
Myers, J. G., 804-10

## N

Nagarkatti, S., 811  
Nair, K. R., 811  
Nakano, O., 154, 713  
Naranjo-Hincapie, N.,  
812-3  
Negm, A. A. G., 814-20  
Nelli, E. J., 1059  
Newsom, L. D., 693-6, 701-  
7, 751, 821-2  
Neyra, M., 953  
Nickel, J. L., 823  
Niilo, V., 824  
Novák, K., 585-8, 825-6  
Novaretti, W. R. T.,  
1057-9  
Nunez, P., 827  
Nunez, W. J., 828

## O

de Oliveira, E. R., 1108-9  
Oliver, A. D., 832  
Oliver, B. F., 479, 829-31  
Ortega Corona, A., 845,  
1064-5  
Osman, N. B., 833  
Osterberger, B. A., 517-23,  
533-6, 834-5  
Overman, J. L., 836

## P

Padovani, F., 1132, 1134

Painter, R. H., 837  
Pan, Y.-S., 838-41  
Paredes, P. P., 28-9,  
842-4  
Parisi C., R. A., 845  
Parker, H. L., 846  
Patrick, J. C., 847-8  
Peairs, F. B., 849-50  
Pedersen, K. B., 1128  
Percein, D., 678  
Pereira, C. E. F., 851-2  
Pérez Álvarez, Z., 853  
Pérez González, P., 854  
Perez Perez, R., 416, 855-  
60  
Pergolani de Costa, M. J.,  
861  
Pickel, B., 862  
Pickles, A., 863-4  
Piedra, A. A., 865-6  
Piedra Corvison, A., 867  
Pierce, W. D., 868  
Pinheiro, B. da S., 726  
Pinto da Fonseca, J.,  
869  
Plank, H. K., 115, 870-  
83  
Pollack V., M., 884-5  
Pollet, D. K., 886  
Pontis Videla, R. E.,  
233  
Porres, G., 1111  
Potes, A. F., 887  
Prasad, R. N., 7  
Prasad, S. K., 7  
Programa Nacional de  
Melhoramento da  
Cana-da-Açúcar, Brasil.,  
888  
Pruna, P. M., 889-90  
Pschorn-Walcher, H.,  
128, 891-3  
Puerto Rico Exp. Stn.,  
68-9, 72, 81  
Puerto Rico Federal Exp.  
Stn., 86  
Puerto Rico Univ. Agric.  
Exp. Stn., 66, 73, 80,  
82

## Q

Quelch, J. J., 894  
Questel, D. D., 236, 750,  
895  
Quintana-Muñiz, V., 896-  
9, 1129-34

## R

Rabson, R., 900  
Rai, B. K., 901  
Ramp, R. M., 799  
Randolph, N. M., 902,  
1052-4, 1187  
Rands, R. D., 572  
Rao, S. V. R., 680  
Rao, V. P., 903  
Ratkovich, M. E., 904-5  
Reagan, T. E., 506, 832,  
886, 906-12, 964, 1146  
Reeves, B. G., 2  
Requena, J. R., 913  
Reyna R., R., 845  
Richard, C. A., 723-4  
Ridgway, R. L., 2  
Rio Piedras Insular Exp.  
Stn., 51, 59  
Risco Briceno, S. H.,  
774, 914-36  
Ritchie, A. H., 937  
Roccia, A. O., 727-8  
Roddy, L. R., 510  
Rodriguez, C. L., 1120  
Rogers, J. S., 97  
Röhrig, P. E., 409  
Rolston, L. H., 938  
Roney, J. N., 939  
Rosales Labrada, A., 854  
Rosenfeld, A. H., 940  
Rossetto, C. J., 727-8  
Roth, J. P., 941  
Ruffinelli, A., 942-6  
Ruinard, J., 947  
Ruiz, A. R., 250  
Ruiz, M. A., 948  
Ruiz Medina, G. A., 949  
Ruiz Valhor, L. D., 950

Russo, G., 951  
Růžička, Z., 587-8, 952  
Ryder, W. D., 953

## S

Saint Kitts-Nevis Agric.  
Dep., 55, 62-3  
Saint Lucia Dep. Agric., 70  
Saint Vincent Dep. Agric.,  
44, 47, 52, 67  
Saint Vincent Govt. Gaz.,  
64  
Salinas, J. G., 954  
Salt, G., 955  
Sánchez Navarrete, F., 956  
Sanders, C., 387-9  
Sandhu, J. S., 957  
Sanford, J. W., 283, 506,  
958-64  
Saplala, V. L., 965  
Sarmiento M., J., 966-7  
Saunders, J. L., 850  
Saxena, A. P., 968  
Scaramuzza, L. C., 969-93,  
1035  
Séin, F. Jr., 685  
Senigagliesi, C., 1066  
Senmache Santa Cruz, J. M.,  
994  
Sgrillo, R. B., 699, 700,  
995-7  
Shell Agric. Serv., 89  
Shepherd, F. R., 998-9  
Sherman, F., 1000  
Sherwood, S. F., 234  
Shubin, V. F., 1001  
da Silva, A. P., 331  
Silva, G. M. de A., 1002  
da Silva, M. F., 1030  
Silveira Neto, S., 155-  
7, 676-7, 772  
Silviera-Guido, A., 1003-4  
Simmonds, F. J., 129,  
1005-11  
Simon F., J. E., 137,  
1012-5  
Sivasubramanian, M., 1016  
Skeete, C. C., 1017-21



Smith, C. E., 385, 390-4  
Smith, J. W. Jr., 438,  
440, 661, 1023  
Smith, L., 1022  
Smyth, E. G., 1024-26  
Snow, J. W., 1927  
Sobral, S. de M., 936  
Solomon, M. E., 1928  
Sosa Moss, C., 994, 1064-  
5  
Southwood, T. R. E., 1029  
de Souza, H. D., 936,  
1030  
Spencer, H., 524-32  
Spink, W. T., 755  
Squire, F. A., 130, 1031-4  
Stafford, T. J., 708  
Stahl, C. F., 1035  
Starks, K. J., 453  
Starr, D. F., 1036-7  
Stehlé, H., 1038-9  
Strong, L. A., 1040-4  
Stuart, G. M., 1045  
Stubbs, W. C., 1046  
Sturdy, D., 1047  
Sugar Bull., 85  
Summers, T. E., 281, 343,  
661, 722, 725, 1048-50  
Szumkowski, W., 29

T

Taylor, D. J., 1051  
Teetes, G. L., 902, 1052-  
4  
Terán, F. O., 1055-9  
Terra, J. G., 1060  
Thames, W. H. Jr., 750,  
1102  
Thompson, A. C., 941  
Todd, E. H., 236  
Tornisielo, W. L., 996  
de la Torre y Callejas,  
S. L., 1061-3  
Torres, C., 1066  
Torres, J., 1133  
Torres Gau, C., 1064-5  
Tower, W. V., 1067  
Townsend, C. H. T., 1068-

70

Trahan, G. B., 680, 830-1  
Treat, A. E., 1071  
Tseng, H. T., 1072  
Tucker, R. W. E., 1073-1101  
Tucumán Estación Experi-  
mental Agrícola, 93  
Turco, C. P., 1102

U

Union South Africa Dep.  
Agric., 48  
Urich, F. W., 1104  
U. S. Bureau of Entomology  
and Plant Quarantine and  
Louisiana Agricultural  
Experiment Station, 1103  
U.S. Department of Agri-  
culture, 88  
U.S. Department of Agri-  
culture Bur. Agric.  
Econ., 54  
U. S. Department of Agri-  
culture Insect Pest  
Surv., 58

V

Valdes Barry, F., 1106  
Vallo, V., 587-8  
Valsechi, O., 1107-9  
Van Zwaluwenburg, R. H.,  
1110  
Varbin, D., 1109  
Veyrunes, J. C., 782  
Viamonte Morales, C., 1111  
Viator, D. P., 1112, 1114  
Viator, S. J., 1113  
des Vignes, W. G., 1115-6  
Villacorta, A., 1117  
Villacorta, W., 967  
Villas-Boas, H. D. C., 686  
Virkki, N., 1118-20  
Vizioli, J., 1121

W

Wadley, F. M., 1122  
Walder, J. M. M., 699-700,  
995  
Walder, J. O., 1123  
Walker, D. W., 897-9,  
1120, 1124-1134, 1141  
Walters, E. A., 1135-6  
Warren, G. T., 1137  
Watson, J. R., 1138-9  
Watts, F., 1140  
Webster, O. J., 1141  
Weismann, L., 587-8, 1142  
van Whervin, L. W., 780,  
1143-4  
White, E. A., 1145-6  
White, M. R., 1147-8  
Wiendl, F. M., 452, 699,  
700, 995-7  
Wilde, W. H. A., 1144  
Wille, J., 1149-55  
Williams, B. R. Jr., 1157  
Williams, C. H. B., 1156  
Williams, J. R., 1158  
Williams, R. N., 452  
Wilson, C. E., 1159  
Wilson, J. W., 609, 619,  
1160-2  
Wolcott, G. N., 1163-85  
Wongsiri, T., 1186-7  
World Farming, 92  
Worsham, E. L., 1188  
Wouters, L. J. A., 1189

Y

Yadav, R. P., 1190-1  
Yin, C. M., 1192  
Yoder, P. A., 1193

Z

Zelený, J., 585-8

## REFERENCES GROUPED BY SUBJECT

	Before 1910	1910-1919	1920-1929
General Biology	313,490,578,797-8,1046	9,140,570,646	122,237,292,424,549,551,575,593
Taxonomy, Morphology, Distribution	151,1046	39,102,398,541,545,570,937,1165	122,181,237-8,255,336,399,549,575,668,1018,1173
Physiology, Diapause, Behavior, Reproduction		546,570,1163	526,575,1024
Rearing		570	575
Ecology	151,798,1046	9,37,105,541,570,1164-6	54-5,57,109,168,181,184,291,349,526,549-51,566,575,647,667-9,955,1170,1176
Plant Resistance, Varieties	1046	35	51,57,168,176-7,184,186,566-7,593,667-9,940,955,1170,1176
Other Host Plant--Borer Interaction	1046	9,37,108,348,397,473,481,570,682,1163	46,57,98,109,122,172,181,185,188,238,291,297,336,526,550-1,553,568,575,593,647,667-9,872-3,955,1067,1156,1159,1168-9
Radiobiology, Sterilization			
Chemical Control	1046	544,570	20-1,512-3,524-6,528,549-50,552-4,574-5,583-4,667,719-20,754,878
Cultural Control	798,1046	35,105,140-1,144,397,473,481,541-3,570,646,682,894,1000,1104,1163-5,1188	20-1,50,55,57,158-9,168,170,172,291,297,338,349,460,526,549-54,556,558,564-6,575,580-4,593,667-9,671,720,754,871-2,878,955,1159,1170-1,1174,1176,1193
Biological Control			44,109,184,781,877-8
Parasites	797,1046	39,40,138,140-2,144,333,347-8,480-1,540-2,544,547,569-70,579,590,628,646,894,1104,1163-4,1167	15-6,50-1,59,109,147,149,158-61,166-75,178-83,187-8,240-1,291,293-4,296,329,349-50,460,462-4,526-7,529-30,537,548-9,552-5,557,566,575,580-2,593,667,669,868,870,875-7,955,1018,1020-1,1068,1073,1138-9,1159,1170-1
Predators	1046	37,141,145,320,540-1,570,646	168,235,575,875,955,1024,1159
Pathogens		348,570,645-6,937,1104	168,575,668,870,874,955,1159
Economics, Management	151,319,797,1046	9,10,35-8,40-1,102-5,139,141-4,146,162,332,334-5,347,397,481,541,569-70,590,628,646,714,796,894,1140,1163,1165	20-1,42-7,49,50,52-8,109,122,148,158-9,161,166,168,170,172,184,237,239,251,290-1,295-7,317,321,336-8,349,461-2,464-5,526,537,549,551,556,568,575-6,583,593,647,669,671,756,878,951,955,998-9,1017,1019,1021-2,1035,1068,1073,1121,1135,1156,1159,1172-3,1175
Miscellaneous	1046	539-40,570,736	48,554,575,593,737,1040

AND BY PERIOD OF PUBLICATION

1930-1939	1940-1949
260,765,863	132,205,209,352,459,484-8,597,627, 652-3,942-3,956,1051,1099,1137
190,194,199,869,1152,1179	205-6,489,595,627,652,675,956,1099
1032,1081,1092,1094	73,205
	131,1051
191-3,197,199,202,256,300,400,514,516,522-3,685, 805,808,834,863,881,1033,1081,1083-4,1088,1090, 1092,1094,1098,1177-8	73,75,205,360,383,407,591,597,1099
193,197,299,300,401,403-6,411,519,560,685,688, 745,1042,1082,1092,1095-6,1098,1179	77,346,407,425,597,604,644,740,1047
65,191,193,195-8,202-3,234,300,400,519,688,758, 805,809-10,869,880,1076,1149	205,360,407,489,597,627,652-3,675, 1162
67,234,410,520,1042	30-2,85,136,363-4,367,384,391,596-7, 599,600-1,605-7,612-3,1103,1161,1162
60-1,67,191,193,197,234,253,256,516,520,559,610, 685,835,880,971,1031,1085	360,363,407,597,627
357	975-6,992-3
17-8,62-3,66,68-9,111,189,191-3,195-204,234,260- 1,300-4,356,358,361,400,417,515,517-8,520,522-3, 531-6,559,561,573,610,633-41,643,790-1,801,804- 10,863-4,881,939,969-71,1025-6,1033,1038,1041-2, 1045,1069,1074-81,1083-7,1089-91,1093-8,1149, 1151-3,1180	3,25-6,30-4,70,72-4,77-84,86,112-5, 205,208,259,268,305-8,339,345-6,362- 3,414,467,485-6,571,591,597,609,627, 642,652,687,867,942-3,972-4,989-91, 1043-4,1070,1099,1137,1160-1,1181, 1183-5
202,402,1081,1083,1182	597
191,193,195,202,670	597,652
61-2,64-5,191,196-8,202,261,298,300,302,400,402, 519,521,603,610,684,776,790,809-10,862,864,869, 879-80,1031,1033,1041-2,1074,1076,1095-6,1098, 1122,1136,1149-52,1178	32,71,75-6,78,83,94,118,205,254,257, 308,346,351,360,363-6,383,407,425, 456,468,483,485-6,562,594-5,597,602, 617-8,627,652,675,865,867,882-3,944, 956,974-5,1105,1107,1111,1154,1162
64,234,572	207,954

## REFERENCES GROUPED BY SUBJECT AND

	1950-1959
General Biology	210, 214, 371, 620, 729, 905, 1060
Taxonomy, Morphology, Distribution	87, 210-2, 215, 221, 223-4, 227-9, 420-1, 938, 1110
Physiology, Diapause, Behavior, Reproduction	895
Rearing	322-5
Ecology	212, 223, 229, 232, 289, 470, 655, 744, 918, 988, 1008, 1110
Plant Resistance, Varieties	97, 210, 212, 330-1, 447, 608, 620, 679, 681, 729, 749-50, 887, 895, 1008, 1039, 1110
Other Host Plant--Borer Interaction	106, 110, 210, 212, 219, 221, 224, 227, 229, 371, 409, 608, 620, 717, 729-31, 742, 744, 837, 887, 1060
Radiobiology, Sterilization	
Chemical Control	96, 116, 137, 250, 370-2, 376, 380, 382, 386, 392-3, 598, 608, 614, 620, 679, 693-5, 697, 702-4, 707, 709, 729, 732, 750, 821, 887, 918, 977, 1012, 1036-7
Cultural Control	212, 370-1, 379, 381, 608, 620, 729, 750, 895
Biological Control	217, 264, 649, 984-5
Parasites	1, 7, 116, 119, 210-2, 215, 219, 221-4, 230, 232, 265, 269-75, 279, 285, 287, 325-6, 359, 370-1, 421, 446, 448, 470, 563, 608, 611, 619- 20, 648, 729, 750, 777, 837, 846, 887, 914-7, 919-25, 978-82, 985-6, 988, 1005-10, 1100- 1, 1110, 1155
Predators	262-3, 470, 619-20, 701, 729, 837, 986, 988
Pathogens	230, 233, 620, 729, 986, 988
Economics, Management	87, 106, 116, 210-2, 215-6, 218, 220-1, 223- 6, 230, 258, 266, 284, 289, 368-9, 371, 373- 5, 377-8, 385, 387-8, 394-5, 420, 474, 608, 615-6, 620, 654-5, 689, 706, 709, 729, 731, 742-4, 748, 750-1, 755, 799, 802-3, 861, 866, 887, 904, 945, 983, 1005, 1060, 1106, 1110
Miscellaneous	213, 229, 389-90, 470, 692

BY PERIOD OF PUBLICATION—Continued

1960-1969	1970-1980
117,165,248,328,413,422,426-8,449,491,587, 1186	101,589,716,994
4,6,117,342,491,621,1158	135,315,443,691,793,936,1192
11,416,422,475,492,501,629-30,650-1,787, 824-5,847,855-6,860,1118-20,1124,1126-7, 1131,1158,1186	22,152,157,163,433,435,438,476-9,589,658, 662,676-7,691,716,721,771-2,788-9,833,848, 857-9,884,935,997,1030,1116,1147-8,1192
4,165,499,501,586-7,622,631,786,838,841, 1134,1186-7	242-4,246-7,318,355,418-9,452,454,589,623, 657,713,752,766,769,958,994-6,1117,1133
11,422,432,507,588,779,814-5,952,1027,1158	133,135,152-3,156-7,435-6,589,632,662-3, 666,768,793-5,960,1029,1115
4-5,24,117,415,429,500,673,708,738-9,1052, 1158	99,267,309-12,396,408,430-1,435,453,503, 624-6,662-3,674,678,680,691,711-2,723-4, 727-8,752,829-31,836,839-40,845,849-50,888, 994,1054,1064-5,1112,1114,1141,1157
4,27,123,164,422-3,432,622,741,746-7,757, 828,842-3,901,913,1004,1108,1158	19,435-6,443,589,691,726,811,854,896-9, 1002,1056,1109,1157
117,664,824-5,890,900,1125,1128-31,1144, 1158	959,961,1123,1132-3
117,236,276,314,340-1,353,413,415,432,497- 8,502,504-5,507-10,585-6,690,696,698,705, 718,767,784,814,817,820,902,946,953,963, 1013-5,1158,1186,1189-91	14,93,100,154,343,437,439,506,691,699,700, 775,906-12,949,962,964,966-7,1053,1066
117,236,328,413,432,1158	691,726,770,811,845,1056,1146
413,823,926,929,1001	851,1011,1029
8,28-9,90,117,123-4,128-9,231,252,276-7, 286,288,314,457-8,588,592,683,718,733,778- 80,785,800,844,893,903,927-8,930-1,965, 987,1142-3,1158	2,12,91,93,101,120-1,125-7,130,135,150,245, 249,281,316,344,412,434-6,440-5,450-1,454- 5,469,471-2,482,511,538,577,589,632,656-7, 659-61,665-6,686,691,710,725,759-64,773-4, 783,792,794-5,811,852-3,885,888,891-2,932- 4,941,950,960,968,1016,1023,1048,1050,1057, 1059,1061-3,1071-2,1102,1115
280,422,510,814-8	2,95,135,281,589,819,832,857,909,960,1145- 6
622,753	13-4,278,281,672,782,1133
8,29,88-9,107,117,123,164,277,282-3,327, 415,423,493,507,690,734,741,746,757,779, 812-3,827,847-8,1003-4,1158	23,92-3,134,354,466,494-6,511,589,691,699, 700,715,722,725,735,795,822,886,947,957, 1028,1034,1049,1058,1113
826,889,1055	155,997





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