
Inventory of the Paul H. DeBach Papers, 1921-1989 (bulk 1955-1980)

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Creator: DeBach, Paul

Title: Paul H. DeBach Papers.

Date: 1921-1989

Extent: 16.9 linear feet

Abstract: The Paul H. DeBach Papers document University of California, Riverside professor Paul DeBach's pioneering work in the field of integrated pest management and in the biological control of insect pests and weeds. The collection spans the years 1921-1989 (bulk 1955-1980) and includes research notes, background data, manuscripts, reprints, project plans, progress reports, and correspondence related to DeBach's work in biological control of insects.

Physical location: Researchers should contact Special Collections to request collections, as many are stored offsite.

Repository: University of California, Davis. General Library. Department of Special Collections.

Davis, California 95616-5292

Collection number: D-296

Language of Material: Collection materials in English

Biography

Paul H. DeBach (1914-1993) was an internationally recognized proponent of biological insect control. His research on citrus pests was fundamental in preserving the continued health of California citrus crops without reliance on chemical pesticides. DeBach was born in Miles City, Montana and moved to southern California at an early age. In 1933, he graduated from Fairfax High School in Hollywood, California and thereafter began his university studies at the University of California, Los Angeles. After two years, he transferred to the University of California, Berkeley, where in 1938, he received his B.A. in entomology. During his graduate studies, DeBach worked with Harry Smith at the University of California, Riverside's Citrus Experiment Station. In 1940, DeBach was awarded a Ph.D. in biological control of insect pests.

From 1942-1942, DeBach worked as a junior entomologist with the U.S. Public Health Service. He then worked for the United States Department of Agriculture from 1943-1945, researching control of the white-fringed beetle. Following World War II, DeBach was appointed as an assistant entomologist at the Citrus Experiment Station's Department of Biological Control, where he remained until his retirement in 1983. During this time, he developed the first formal courses offered in biological control at the University of California, Riverside, conducted pioneering research on the biological control of citrus pests, and revised and clarified the taxonomy of parasitic wasps.

Paul DeBach's primary research interests were control of citrus pests, particularly scale insects, whiteflies, and mealybugs. He took part in extensive foreign exploration to seek out natural enemies of California citrus pests, and successfully established many new species of predaceous beetles and wasps. During the 1960s and 1970s, DeBach was an active participant in the development and work of the International Biological Program's Integrated Pest Management Program. The United States Department of Agriculture and nineteen universities participated in the program, which aimed to reduce reliance on conventional pesticides.

In addition to his research and teaching, Paul DeBach was the principal editor of and author of several chapters in *Biological Control of Insect Pests and Weeds* (1964). The book has since become the classic text on biological control. DeBach also published *Biological Control of Natural Enemies* (1991), which he wrote for a non-academic audience. Paul DeBach died at his home in Laguna, California in 1993.

Source: Gordh, Gordon, Huffaker, C.B., and Luck, Robert F. "Paul Hevener DeBach, Biological Control: Riverside." *University of California: In Memoriam*. Berkeley: University of California Press, 1993.

Scope and Content

The Paul H. DeBach Papers span the years from 1921-1989, with the bulk of the material falling between 1955 and 1980. The collection contains material related to DeBach's work in integrated pest management of insects, particularly of Red Scale and other citrus pests. Also present are drafts of articles and of *Biological Control of Insect Pests and Weeds*; materials related to DeBach's teaching and departmental involvement at the University of California, Riverside; and a small series of photographs. The bulk of the photographs are illustrations from publications, but there are a few photographs of specimens and of individuals.

Arrangement

The collection is arranged in five series: 1. Biographical Materials, 2. Correspondence, 3. Writings, 4. Research Files, and 5. Photographs.

Related Collections

The following collections at Special Collections relate to the Paul H. DeBach Papers:

D-217, Entomological Society of America, Pacific Branch Archives, 1939-1986: Annual meeting and committee minutes, annual reports, correspondence, financial documents, programs, and informational brochures.

D-98, Stanley F. Bailey Papers, 1906-1981: This collection contains correspondence with researchers and growers regarding the ecological control of thrips and mosquitoes.

Indexing Terms

The following terms have been used to index the description of this collection in the library's online public access catalog.

DeBach, Paul--Archives.

Agricultural pests--Biological control.

Agricultural pests--Integrated control.

Aonidiella.

Aphytis.

Entomology.

University of California, Riverside.

Access

Collection is open for research.

Acquisition Information

Gift of Paul H. DeBach to the University of California, Riverside Department of Entomology. Transferred from the University of California, Riverside to Special Collections at the University of California, Davis in 1989 and 1990.

Preferred Citation

[Identification of item], Paul H. DeBach Papers, D-296, Department of Special Collections, General Library, University of California, Davis.

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Series 1 **Biographical Materials 1948-1988**

Physical Description: 2.8 linear feet

Scope and Content Note

Arranged by subject in the following subseries: University of California, Riverside; and Professional Activities.

Subseries 1.1 **University of California, Riverside 1950-1980**

Physical Description: 1.3 linear feet

Scope and Content Note

Arranged alphabetically. Contains correspondence, minutes, and memos related to DeBach's teaching, departmental work, and committee involvement at the University of California, Riverside.

Box/Folder 1:1
Box/Folder 1:2
Box/Folder 1:3
Box/Folder 1:4
Box/Folder 1:5
Box/Folder 1:6
Box/Folder 1:7
Box/Folder 1:8
Box/Folder 1:9
Box/Folder 1:10

Academic Senate, 1 of 2 1972-1979

Academic Senate, 2 of 2 1972-1979

Academic Senate: Records of Assemblies 1971-1977

Administrative Memos and Correspondence 1973-1979

Annual Biographical Update Memos 1948-1979

Appointments: Riverside 1961-1970

Appointments to Committees and Associations 1960-1970; undated

Bibliography 1972?

Biography-Related Correspondence and Memos 1959-1979

Building and Campus Development Committee 1956-1958; undated

Box/Folder 1:11	Citrus Research Committee 1954
Box/Folder 1:12	DeBach Vitas and Activity Reports 1956-1978
Box/Folder 1:13	Departmental Administrative Functions: Appointments and Committees 1969-1976
Box/Folder 1:14	Departmental Teaching Functions 1955-1975
Box/Folder 1:15	Entomology Publications Panel 1968-1971
Box/Folder 1:16	Entomology Seminar 1953-1954; undated
Box/Folder 2:1	Graduate Student Administrative Memos, 1 of 2 1967-1976
Box/Folder 2:2	Graduate Student Administrative Memos, 2 of 2 1967-1976
Box/Folder 2:3	Graduate Student Administrative Memos 1976-1979
Box/Folder 2:4	Graduate Students and Post-Docs, Correspondence and Memos: Thomas Ashley 1969-1970
Box/Folder 2:5	Graduate Students and Post-Docs, Correspondence and Memos: John L. Baker 1969-1978
Box/Folder 2:6	Graduate Students and Post-Docs, Correspondence and Memos: Daniel Blumberg 1977-1980
Box/Folder 2:7	Graduate Students and Post-Docs, Correspondence and Memos: Hiram Bravo 1972-1974
Box/Folder 2:8	Graduate Students and Post-Docs, Correspondence and Memos: A.G. Escobar 1975
Box/Folder 2:9	Graduate Students and Post-Docs, Correspondence and Memos: Dean Fanara 1967-1968
Box/Folder 2:10	Graduate Students and Post-Docs, Correspondence and Memos: Judy Freeman 1973-1974
Box/Folder 2:11	Graduate Students and Post-Docs, Correspondence and Memos: Gordon Gordh 1967-1968
Box/Folder 2:12	Graduate Students and Post-Docs, Correspondence and Memos: Hanif Gulmahamad 1972-1975
Box/Folder 2:13	Graduate Students and Post-Docs, Correspondence and Memos: Robert Hendrickson 1966-1974
Box/Folder 2:14	Graduate Students and Post-Docs, Correspondence and Memos: Juan Herrera 1968
Box/Folder 2:15	Graduate Students and Post-Docs, Correspondence and Memos: Marjorie Hoy 1971-1978
Box/Folder 2:16	Graduate Students and Post-Docs, Correspondence and Memos: Marshall Johnson 1974-1975
Box/Folder 2:17	Graduate Students and Post-Docs, Correspondence and Memos: Syed Khasimuddin 1969-1982
Box/Folder 2:18	Graduate Students and Post-Docs, Correspondence and Memos: Marcos Kogan 1967
Box/Folder 2:19	Graduate Students and Post-Docs, Correspondence and Memos: John LaSalle 1977-1978
Box/Folder 2:20	Graduate Students and Post-Docs, Correspondence and Memos: Svata Louda 1973
Box/Folder 2:21	Graduate Students and Post-Docs, Correspondence and Memos: Dale Meyerdirk 1969-1972
Box/Folder 3:1	Graduate Students and Post-Docs, Correspondence and Memos: Sudha Rao Nagarkatti 1966-1977
Box/Folder 3:2	Graduate Students and Post-Docs, Correspondence and Memos: Gary Olsen 1969-1970
Box/Folder 3:3	Graduate Students and Post-Docs, Correspondence and Memos: Georghio Orphanides 1969
Box/Folder 3:4	Graduate Students and Post-Docs, Correspondence and Memos: José Quezada 1965-1979
Box/Folder 3:5	Graduate Students and Post-Docs, Correspondence and Memos: Yoram Rössler 1969-1971
Box/Folder 3:6	Graduate Students and Post-Docs, Correspondence and Memos: Frank Sances 1976-1977
Box/Folder 3:7	Graduate Students and Post-Docs, Correspondence and Memos: Maria Jesus Verdu 1975-1977
Box/Folder 3:8	Graduate Students and Post-Docs, Correspondence and Memos: James Wooley 1977-1982

Box/Folder 3:9	Insectary Addition 1956-1960
Box/Folder 3:10	Land Use and Allocation Committee 1952-1960
Box/Folder 3:11	Lectures 1960-1978
Box/Folder 3:12	Memos to Staff 1950-1954
Box/Folder 3:13	Miscellaneous Committees 1954-1979
Box/Folder 3:14	Notes to Colleagues: Chris Elder 1977
Box/Folder 3:15	Notes to Colleagues: Gordon Gordh 1974-1977
Box/Folder 3:16	Notes to Colleagues: Annemiek Lameris 1980
Box/Folder 3:17	Notes to Colleagues: Stan Warner 1972-1978
Box/Folder 3:18	Notes to Colleagues: Harold Compere 1978
Box/Folder 3:19	Personnel: General Administrative Memos, 1 of 2 1955-1975
Box/Folder 3:20	Personnel: General Administrative Memos, 2 of 2 1955-1975
Box/Folder 4:1	Pest Management Training Evaluation 1971
Box/Folder 4:2	Ph.D. and Post-Doc Memos 1972-1979
Box/Folder 4:3	Promotion Policies 1958-1975; undated
Box/Folder 4:4	Sabbatical 1960-1972
Box/Folder 4:5	Sabbatical Leave: Baja 1978 October-1978 December
Box/Folder 4:6	Staff Conference 1952-1953
Box/Folder 4:7	Staff Meetings: Biological Control 1949-1954
Box/Folder 4:8	University of Florida 1970-1971

Subseries 1.2 **Professional Activities 1948-1988****Physical Description:** 1.5 linear feet**Scope and Content Note**

Arranged alphabetically. Contains correspondence, minutes, conference programs, and newsletters related to DeBach's work with professional associations.

Box/Folder 4:9	Agriculture Chemical Steering Committee 1968-1970
Box/Folder 4:10	American Society of Economic Entomologists 1948-1949
Box/Folder 4:11	American Society of Economic Entomologists: Survey 1948
Box/Folder 4:12	Awards and Honors 1960-1980
Box/Folder 4:13	Committee on Underwater Breathing Apparatus 1953
Box/Folder 4:14	Consultantships 1973-1979
Box/Folder 4:15	Council of Diving Clubs 1953
Box/Folder 4:16	Dictyospermum Scale Committee 1959-1960
Box/Folder 4:17	Ecological Society of America 1955-1978
Box/Folder 4:18	Entomological Club of Southern California 1951-1971
Box/Folder 4:19	Entomological Society of America 1953-1954
Box/Folder 5:1	Entomological Society of America 1971-1983
Box/Folder 5:2	Entomological Society of America: Annual Meeting 1953
Box/Folder 5:3	Entomological Society of America: 1980 Meeting 1980-1988
Box/Folder 5:4	Entomological Society of America: Biological Control Section 1949-1950
Box/Folder 5:5	Entomological Society of America: Correspondence 1952-1982
Box/Folder 5:6	Entomological Society of America: Pacific Branch 1987-1988
Box/Folder 5:7	Entomological Society of America: Pacific Branch Executive Committee Meeting 1988-1989
Box/Folder 5:8	Entomological Society of America: Reports 1959-1980
Box/Folder 5:9	Entomological Society of America: Special Committee on Retrieval 1970-1972
Box/Folder 6:1	Environmental Defense Fund 1971-1977
Box/Folder 6:2	Environmental Defense Fund: Correspondence 1975-1978
Box/Folder 6:3	Environmental Protection Agency 1972-1977
Box/Folder 6:4	European and Mediterranean Plant Protection Organization 1971-1973
Box/Folder 6:5	European and Mediterranean Plant Protection Organization: Correspondence 1972-1973
Box/Folder 6:6	European and Mediterranean Plant Protection Organization: Reports 1973
Box/Folder 6:7	Honorary Memberships 1938-1979
Box/Folder 6:8	International Association for Ecology 1972-1978

Box/Folder 6:9	International Association for Ecology: Publications 1970-1974
Box/Folder 6:10	Tenth International Congress of Entomology 1969-1971
Box/Folder 6:11	Fourteenth International Congress of Entomology 1969-1971
Box/Folder 6:12	Fifteenth International Congress of Entomology 1975-1976
Box/Folder 6:13	Sixteenth International Congress of Entomology 1979
Box/Folder 6:14	International Union of Biological Sciences 1970; undated
Box/Folder 6:15	Interviews 1969-1977
Box/Folder 6:16	Miscellaneous Talks and Meetings 1947-1978
Box/Folder 7:1	National Research Council: General Correspondence 1955-1970
Box/Folder 7:2	National Science Foundation: Environmental Biology Panel 1967; undated
Box/Folder 7:3	National Science Foundation: Annual Report; Grants and Awards 1966
Box/Folder 7:4	Newsletters: Citrus Experiment Station 1948-1950
Box/Folder 7:5	Newsletters: Pest Control Circulars 1948
Box/Folder 7:6	Newsletters: <i>Vedalia</i> 1948 December
Box/Folder 7:7	People's Lobby 1976
Box/Folder 7:8	Publicity File 1945-1971; undated
Box/Folder 7:9	Published Clippings 1969-1977; undated
Box/Folder 7:10	Reviews of Manuscripts 1958-1978
Box/Folder 7:11	Tall Timbers Meeting 1968-1972
Box/Folder 7:12	Third Coccoidea Symposium 1971
Box/Folder 7:13	United States - Israel Binational Science Foundation undated

Series 2 **Correspondence 1942-1983**

Physical Description: 3.3 linear feet

Scope and Content Note

Arranged by subject in the following subseries: Biological Control Correspondence; and General Correspondence.

Subseries 2.1 **Biological Control Correspondence 1944-1969**

Physical Description: 1.1 linear feet

Scope and Content Note

Arranged alphabetically. Contains correspondence related to scale insects and parasites, requests for advice on biological control, and requests for specimen identification.

Box/Folder 8:1	Biological Control, A 1957-1961
Box/Folder 8:2	Biological Control, D.P. Annecke 1960-1966
Box/Folder 8:3	Biological Control, Australia 1961-1966
Box/Folder 8:4	Biological Control, B 1965-1967
Box/Folder 8:5	Biological Control, C 1958-1961
Box/Folder 8:6	Biological Control, California 1954-1963
Box/Folder 8:7	Biological Control, Irma de Crouzel 1961-1967
Box/Folder 8:8	Biological Control, Vittorio Delucchi 1959-1960
Box/Folder 8:9	Biological Control, E 1961
Box/Folder 8:10	Biological Control, G 1959-1967
Box/Folder 8:11	Biological Control, Foreign 1955-1967
Box/Folder 8:12	Biological Control, H 1961
Box/Folder 8:13	Biological Control, I 1967
Box/Folder 8:14	Biological Control, J 1960
Box/Folder 8:15	Biological Control, C.J.R. Johnston 1959-1960
Box/Folder 8:16	Biological Control, K 1959-1961
Box/Folder 8:17	Biological Control, L 1959
Box/Folder 8:18	Biological Control, M 1959-1961
Box/Folder 8:19	Biological Control, N 1960-1964
Box/Folder 8:20	Biological Control, O 1965-1969
Box/Folder 8:21	Biological Control, P 1961
Box/Folder 8:22	Biological Control, R 1964

Box/Folder 8:23	Biological Control, V.P. Rao 1959-1961
Box/Folder 8:24	Biological Control, S 1956-1960
Box/Folder 8:25	Biological Control, South Africa 1962-1965
Box/Folder 8:26	Biological Control, T 1960
Box/Folder 8:27	Biological Control, United States 1955-1967
Box/Folder 8:28	Biological Control, E.W. Valentine 1960-1961
Box/Folder 8:29	Biological Control, R. van den Bosch 1960
Box/Folder 8:30	Biological Control, W 1957
Box/Folder 8:31	Biological Control, B.J. Wood 1960-1967
Box/Folder 8:32	Biological Control, Y 1960
Box/Folder 8:33	Other Scale and Parasites, California 1955-1967
Box/Folder 8:34	Other Scale and Parasites, California: Garlan Eggman 1961
Box/Folder 8:35	Other Scale and Parasites, California: Howard B. Lorbeer 1959
Box/Folder 8:36	Other Scale and Parasites, California: Karl Optiz 1957-1960
Box/Folder 8:37	Other Scale and Parasites, California: Dean Palmer 1952-1961
Box/Folder 8:38	Other Scale and Parasites, California: J.E. Pehrson 1958-1960
Box/Folder 8:39	Other Scale and Parasites, California: Fred Thorne 1961
Box/Folder 8:40	Other Scale and Parasites, Oscar Beingolea 1961-1967
Box/Folder 8:41	Other Scale and Parasites, M.A. Ghani 1957-1966
Box/Folder 8:42	Other Scale and Parasites, Eleazar Jimenez 1954-1969
Box/Folder 9:1	Other Scale and Parasites, Robert Linkfield 1960-1962
Box/Folder 9:2	Other Scale and Parasites, Luis Zarazosa Lopez 1961-1966
Box/Folder 9:3	Other Scale and Parasites, Harry Maltby 1960-1964
Box/Folder 9:4	Other Scale and Parasites, Miscellaneous 1955-1969
Box/Folder 9:5	Other Scale and Parasites, David Nadel 1961
Box/Folder 9:6	Other Scale and Parasites, Epigmenio Quiroz Rocha 1966
Box/Folder 9:7	Other Scale and Parasites, United States 1944-1969
Box/Folder 9:8	Red Scale and Parasites, California 1955-1976
Box/Folder 9:9	Red Scale and Parasites, Marcus E. Cravens 1956-1959
Box/Folder 9:10	Red Scale and Parasites, John W. Dixon 1955-1959
Box/Folder 9:11	Red Scale and Parasites, Herman French 1955-1959
Box/Folder 9:12	Red Scale and Parasites, Howard Lorbeer 1957-1968
Box/Folder 9:13	Red Scale and Parasites, Ralph W. Lichty 1958
Box/Folder 9:14	Red Scale and Parasites, C. Sheldon Morley 1958-1960
Box/Folder 9:15	Red Scale and Parasites, Fred Thorne 1958-1959
Box/Folder 9:16	Red Scale and Parasites, United States 1955-1967

Subseries 2.2 General Correspondence 1942-1983

Physical Description: 2.2 linear feet**Scope and Content Note**

Arranged alphabetically. Contains correspondence with agricultural commissioners, students, and other scientists.

Box/Folder 9:17	A 1951-1955
Box/Folder 9:18	Agricultural Commissioners and Farm Advisors: R.G. Bumgardner (Santa Ana) 1951-1952
Box/Folder 9:19	Agricultural Commissioners and Farm Advisors: Kern County 1951-1952
Box/Folder 9:20	Agricultural Commissioners and Farm Advisors: Los Angeles County 1951-1952
Box/Folder 9:21	Agricultural Commissioners and Farm Advisors: Orange County 1952
Box/Folder 9:22	Agricultural Commissioners and Farm Advisors: Riverside County 1953
Box/Folder 9:23	Agricultural Commissioners and Farm Advisors: San Bernadino County 1952-1953
Box/Folder 10:1	Agricultural Commissioners and Farm Advisors: San Diego County 1951-1953
Box/Folder 10:2	Agricultural Commissioners and Farm Advisors: Santa Barbara County 1951-1953
Box/Folder 10:3	Agricultural Commissioners and Farm Advisors: Ventura County 1953
Box/Folder 10:4	American Association of Economic Entomology 1951-1952
Box/Folder 10:5	Aphytis Monograph 1973-1976
Box/Folder 10:6	Argentina 1965-1981

Box/Folder 10:7	Australia 1965-1982
Box/Folder 10:8	B 1950-1954
Box/Folder 10:9	Bangladesh 1975
Box/Folder 10:10	<i>Biological Control</i> (Clausen, editor) 1973-1977
Box/Folder 10:11	<i>Biological Control by Natural Enemies</i> 1974-1980
Box/Folder 10:12	<i>Biological Control of Insect Pests and Weeds</i> 1970-1978
Box/Folder 10:13	Boyce 1950-1953
Box/Folder 10:14	Brazil 1962-1978
Box/Folder 10:15	C 1948-1951
Box/Folder 10:16	California Alumni Association 1952
Box/Folder 10:17	Canada 1954-1975
Box/Folder 10:18	Frank Capra 1951-1953
Box/Folder 10:19	Central America 1977-1978
Box/Folder 10:20	H.D. Chapman 1951
Box/Folder 10:21	Chile 1955-1980
Box/Folder 10:22	<i>Citrus Leaves</i> (Willis Parker, editor) 1951-1953
Box/Folder 10:23	C.P. Clausen 1953-1958
Box/Folder 10:24	Colombia 1974-1978
Box/Folder 11:1	Costa Rica 1976-1977
Box/Folder 11:2	Cuba 1978
Box/Folder 11:3	Cyprus 1968-1980
Box/Folder 11:4	D 1948-1954
Box/Folder 11:5	Department of Entomology 1972-1981
Box/Folder 11:6	Department of Entomology, Division of Biological Control 1955-1983
Box/Folder 11:7	Dominican Republic 1971
Box/Folder 11:8	Richard L. Doutt 1948-1954
Box/Folder 11:9	E 1950-1954
Box/Folder 11:10	Walter Ebeling 1948-1954
Box/Folder 11:11	El Salvador 1972-1976
Box/Folder 11:12	England 1955-1982
Box/Folder 11:13	Ethiopia 1978-1979
Box/Folder 11:14	Entomological Society of America 1947-1948
Box/Folder 11:15	F 1949-1952
Box/Folder 11:16	Finland 1977-1978
Box/Folder 11:17	Foreign, General 1978-1981
Box/Folder 11:18	Former Students 1970-1981
Box/Folder 12:1	France 1960-1978
Box/Folder 12:2	Kaichi Furuhashi 1975-1983
Box/Folder 12:3	G 1948-1953
Box/Folder 12:4	General 1945
Box/Folder 12:5	General 1946
Box/Folder 12:6	General, 1 of 2 1947
Box/Folder 12:7	General, 2 of 2 1947
Box/Folder 12:8	Germany 1968-1980
Box/Folder 12:9	Greece 1963-1978
Box/Folder 12:10	J.T. Griffiths (Lake Alfred, Florida) 1948-1950
Box/Folder 12:11	Guam 1973
Box/Folder 12:12	H 1948-1954
Box/Folder 12:13	J.K. Holloway 1948-1951
Box/Folder 12:14	Hong Kong 1969-1981
Box/Folder 12:15	Carl Huffaker 1949-1953
Box/Folder 12:16	I 1951-1953
Box/Folder 12:17	Identifications 1974-1980
Box/Folder 12:18	Incoming 1942
Box/Folder 13:1	Incoming 1943
Box/Folder 13:2	Incoming 1944
Box/Folder 13:3	India 1960-1983
Box/Folder 13:4	Iran 1973-1979

Box/Folder 13:5	Ireland 1970-1976
Box/Folder 13:6	Israel 1966-1982
Box/Folder 13:7	Iraq 1980
Box/Folder 13:8	Italy 1966-1983
Box/Folder 13:9	J 1948-1953
Box/Folder 13:10	Japan 1957-1983
Box/Folder 13:11	K 1948-1954
Box/Folder 13:12	Kenya 1975-1978
Box/Folder 13:13	Korea 1970-1972
Box/Folder 13:14	L 1948-1954
Box/Folder 13:15	John Landi 1975
Box/Folder 13:16	Mc 1948-1954
Box/Folder 13:17	M 1948-1954
Box/Folder 13:18	Malaysia 1970-1976
Box/Folder 13:19	Manuscripts 1973-1979
Box/Folder 13:20	Mexico 1958-1982
Box/Folder 13:21	Mocambique 1970
Box/Folder 13:22	Morocco 1975-1976
Box/Folder 13:23	N 1948-1954
Box/Folder 13:24	Nepal 1977-1977
Box/Folder 13:25	Netherlands 1978-1983
Box/Folder 14:1	New Caledonia 1972-1976
Box/Folder 14:2	New Zealand 1970-1983
Box/Folder 14:3	Dr. William Niering 1967
Box/Folder 14:4	Nigeria 1969-1982
Box/Folder 14:5	O 1948-1953
Box/Folder 14:6	Outgoing 1940-1943
Box/Folder 14:7	P 1948-1954
Box/Folder 14:8	Pakistan 1969-1976
Box/Folder 14:9	Thomas Park (editor, <i>Ecology</i>) 1948
Box/Folder 14:9	L.M. Peairs (<i>Journal of Economic Entomology</i>) 1948-1952
Box/Folder 14:10	Peru 1977-1981
Box/Folder 14:11	Point Four Application 1951-1953
Box/Folder 14:12	Poland 1974
Box/Folder 14:13	Publications 1966-1980
Box/Folder 14:14	Professors and Researchers 1970-1976
Box/Folder 14:15	Q 1952
Box/Folder 14:16	R 1948-1954
Box/Folder 14:17	Reprints 1953
Box/Folder 14:18	Reservations 1948-1950
Box/Folder 14:19	Rhodesia 1965
Box/Folder 14:20	P.W. Rohrbaugh (Citrus and Vegetable Training Center) 1949-1950
Box/Folder 14:21	David Rosen 1965-1981
Box/Folder 14:22	Yoram Rössler 1976-1979
Box/Folder 14:23	G. Rotundo 1975
Box/Folder 14:24	Pakistan 1948-1955
Box/Folder 15:1	Scotland 1968-1975
Box/Folder 15:2	Harry Smith 1948-1951
Box/Folder 15:3	Solomon Islands 1975-1976
Box/Folder 15:4	South Africa 1964-1981
Box/Folder 15:5	Spain 1960-1971
Box/Folder 15:6	Sri Lanka 1976-1978
Box/Folder 15:7	Sweden 1971
Box/Folder 15:8	Switzerland 1959-1978
Box/Folder 15:9	T 1948-1954
Box/Folder 15:10	M. Tanaka 1976-1977
Box/Folder 15:11	Taiwan 1957-1967
Box/Folder 15:12	Thailand 1959-1976

Box/Folder 15:13	Turkey 1965-1981
Box/Folder 15:14	U 1948-1953
Box/Folder 15:15	Uganda 1970
Box/Folder 15:16	U.S.S.R. 1938-1983
Box/Folder 15:17	United States, General 1955-1960
Box/Folder 15:18	United States, General 1961-1969
Box/Folder 15:19	United States, General 1970
Box/Folder 15:20	United States, General 1971-1976
Box/Folder 16:1	United States, General 1977-1979
Box/Folder 16:2	United States, General 1973-1983
Box/Folder 16:3	United States, General 1979
Box/Folder 16:4	University of California at Riverside 1959-1979
Box/Folder 16:5	V 1947-1952
Box/Folder 16:6	J.C. van Lenteren 1972-1980
Box/Folder 16:7	Venezuela 1968-1969
Box/Folder 16:8	W 1948-1954
Box/Folder 16:9	Gordon S. Watkins 1952-1953
Box/Folder 16:10	West Africa 1977
Box/Folder 16:11	West Indies 1968-1976
Box/Folder 16:12	Y 1954
Box/Folder 16:13	Keizo Yasumatsu 1976
Box/Folder 16:14	Yugoslavia 1973

Series 3 **Writings 1943-1979****Physical Description:** 4.1 linear feet**Scope and Content Note**Arranged by subject in the following subseries: *Biological Control of Insect Pests and Weeds*; Other Writings; and Reference Card File.Subseries 3.1 ***Biological Control of Insect Pests and Weeds 1958-1970*****Physical Description:** 0.9 linear feet**Scope and Content Note**

Arranged alphabetically by title. Contains correspondence with authors, drafts of chapters, and planning materials for book.

Box/Folder 16:15	Bibliography undated
Box/Folder 16:16	Correspondence: Various Chapters 1960-1962
Box/Folder 16:17	Correspondence 1962-1963
Box/Folder 17:1	Correspondence 1962-1966
Box/Folder 17:2	Correspondence 1964-1970
Box/Folder 17:3	Chapter Outlines 1958-1959; undated
Box/Folder 17:4	Chapter 1: The Scope of Biological Control 1956-1961; undated Creator/Collector: Paul DeBach
Box/Folder 17:5	Chapter 2: The Historical Development of Biological Control 1959-1960; undated Creator/Collector: Richard L. Doutt
Box/Folder 17:6	Chapter 3: Population Ecology -- Historical Developments undated Creator/Collector: C.B. HuffakerP.S. Messenger
Box/Folder 17:7	Chapter 4: The Concept and Significance of Natural Control 1961; undated Creator/Collector: C.B. HuffakerP.S. Messenger
Box/Folder 17:8	Chapter 5: Some Biological Concepts and Questions 1959; undated Creator/Collector: Richard L. DouttPaul DeBach

Box/Folder 17:9	Chapter 6: Biological Characteristics of Entomophagous Adults 1959; undated Creator/Collector: Richard L. Doutt
Box/Folder 17:10	Chapter 7: Developmental Stages of Parasites undated Creator/Collector: K.S. Hagen
Box/Folder 17:11	Chapter 8: Systematics in Relation to Biological Control undated Creator/Collector: Evert I. Schlinger Richard L. Doutt
Box/Folder 17:12	Chapter 9: Foreign Exploration for Beneficial Organisms undated Creator/Collector: B.R. Bartlett R. van den Bosch
Box/Folder 17:13	Chapter 10: Quarantine Handling of Entomophagous Insects undated Creator/Collector: T.W. Fisher
Box/Folder 17:14	Chapter 11: Culture of Entomophagous Insects and Their Hosts 1960; undated Creator/Collector: G.L. Finney T.W. Fisher
Box/Folder 17:15	Chapter 12: Nutrition of Entomophagous Insects and Their Hosts 1960; undated Creator/Collector: K.S. Hagen
Box/Folder 18:1	Chapter 13: Insectary Facilities and Equipment undated Creator/Collector: T.W. Fisher G.L. Finney
Box/Folder 18:2	Chapter 14: Methods of Colonization, Recovery, and Evaluation 1960; undated Creator/Collector: Paul DeBach B.R. Bartlett
Box/Folder 18:3	Chapter 15: Manipulation of Entomophagous Species 1959-1960; undated Creator/Collector: Paul DeBach K.S. Hagen
Box/Folder 18:4	Chapter 16: Environmental Modification and Biological Control 1959-1960; undated Creator/Collector: R. van den Bosch A.D. Telford
Box/Folder 18:5	Chapter 17: Integration of Chemical and Biological Control of Insect Pests undated Creator/Collector: B.R. Bartlett
Box/Folder 18:6	Chapter 18: Microbial Diseases of Insects undated Creator/Collector: Edward A. Steinhaus
Box/Folder 18:7	Chapter 19: Epizootiology of Insect Diseases 1960; undated Creator/Collector: Y. Tanada
Box/Folder 18:8	Chapter 20: Mass Production of Insect Pathogens 1959-1960; undated Creator/Collector: Mauro E. Martignoni
Box/Folder 18:9	Chapter 21: Use of Micro-Organisms in Biological Control undated Creator/Collector: Irvin M. Hall
Box/Folder 18:10	Chapter 22: Fundamentals of Biological Weed Control undated Creator/Collector: C.B. Huffaker

Box/Folder 18:11	Chapter 23: Projects in Biological Control of Weeds 1960-1962; undated Creator/Collector: J.K. Holloway
Box/Folder 18:12	Chapter 24: Successes, Trends, and Future Possibilities undated Creator/Collector: Paul DeBach
Box/Folder 18:13	General 1958-1963; undated
Box/Folder 18:14	General 1959-1961; undated
Box/Folder 18:15	Index to Scientific Names 1964
Box/Folder 18:16	Pathology Section 1958-1962
Box/Folder 18:17	Photos as Returned From Mexico 1967
Box/Folder 18:18	Plan 1953-1959
Box/Folder 18:19	Preface, Contents, and Figures undated
Box/Folder 18:20	Royalty Agreements 1959-1964
Box/Folder 18:21	Tentative Outline undated

Subseries 3.2 **Other Writings 1943-1979****Physical Description:** 2.0 linear feet**Scope and Content Note**

Arranged alphabetically by title. Contains drafts of papers and of an undated manuscript on scale insects (co-authored with David Rosen) as well as correspondence with editors of journals.

Box/Folder 19:1	"An Analysis of Successes in Biological Control of Insects in the Pacific Area" undated Creator/Collector: Paul DeBach
Box/Folder 19:2	"Artificial Selection for Genetic Adaptation to Temperature Extremes in <i>Aphytis lingnanensis</i> Compere (Hymenoptera: Aphelinidae)" undated Creator/Collector: E.B. WhitePaul DeBachM.J. Garber
Box/Folder 19:3	"Biological and Taxonomic Studies of <i>Signiphora borinquensis</i> , New Species (Hymenoptera: Signiphoridae), a Primary Parasite of Diaspine Scales", 1 of 3 1972; undated Creator/Collector: José R. QuezadaPaul DeBachDavid Rosen
Box/Folder 19:4	"Biological and Taxonomic Studies of <i>Signiphora borinquensis</i> , New Species (Hymenoptera: Signiphoridae), a Primary Parasite of Diaspine Scales" , 2 of 3 1972; undated Creator/Collector: José R. QuezadaPaul DeBachDavid Rosen
Box/Folder 19:5	"Biological and Taxonomic Studies of <i>Signiphora borinquensis</i> , New Species (Hymenoptera: Signiphoridae), a Primary Parasite of Diaspine Scales", 3 of 3 1972; undated Creator/Collector: José R. QuezadaPaul DeBachDavid Rosen
Box/Folder 19:6	"Biological Control of Armored Scales in Mexico" 1967 Creator/Collector: Harry L. MaltbyE. Jimenez-JimenezPaul DeBach
Box/Folder 19:7	"Biological Control of Coccidae" 1960 Creator/Collector: Paul DeBach
Box/Folder 19:8	"Biological Control of Coccids by Introduced Natural Enemies", 1 of 2 1969 Creator/Collector: Paul DeBachDavid RosenC.E. Kennett

Box/Folder 19:9	"Biological Control of Coccids by Introduced Natural Enemies", 2 of 2 1969 Creator/Collector: Paul DeBachDavid RosenC.E. Kennett
Box/Folder 20:1	"Biological Control of Pests" 1968-1970 Creator/Collector: Paul DeBach
Box/Folder 20:2	"Biological Control of Pests and Weeds" (McGraw-Hill Yearbook of Science and Technology) 1967 Creator/Collector: Paul DeBach
Box/Folder 20:3	"Biosystematic Studies on the Species of <i>Aphytis</i>" [1974?] Creator/Collector: David RosenPaul DeBach
Box/Folder 20:4	"The Colonization and Success in Greece of Some Imported <i>Aphytis</i> spp. (Hymenoptera: Aphelinidae) Parasitic on Citrus Scale Insects (Homoptera: Diaspididae)" 1967 Creator/Collector: Paul DeBachLoukia C. Argyriou
Box/Folder 20:5	"Competitive Displacement Between Ecological Homologues" 1962; undated Creator/Collector: Paul DeBachRagnhild A. Sundby
Box/Folder 20:6	"The Competitive Displacement and Coexistence Principles" 1963-1965 Creator/Collector: Paul DeBach
Box/Folder 20:7	Correspondence With Editors: <i>Agricultural Chemicals</i> 1955-1959
Box/Folder 20:8	Correspondence With Editors: <i>Agricultural Publications</i> (Berkeley) 1960
Box/Folder 20:9	Correspondence With Editors: <i>Annals of the Entomological Society of America</i> 1955-1970
Box/Folder 20:10	Correspondence With Editors: <i>Biological Abstracts</i> 1955-1970
Box/Folder 20:11	Correspondence With Editors: <i>California Agriculture</i> 1955-1959
Box/Folder 20:12	Correspondence With Editors: <i>California Citrograph</i> 1955-1959
Box/Folder 20:13	Correspondence With Editors: <i>Citrus Leaves</i> 1955
Box/Folder 20:14	Correspondence With Editors: <i>Ecology</i> 1955-1959
Box/Folder 20:15	Correspondence With Editors: <i>Farm Journal</i> 1957
Box/Folder 20:16	Correspondence With Editors: <i>International Journal of Environmental Studies</i> 1970
Box/Folder 20:17	Correspondence With Editors: <i>Journal of Economic Entomology</i> 1955-1970
Box/Folder 20:18	"Ecological Adaptation of Parasites and Competition Between Parasite Species in Relation to Establishment and Success" 1961 Creator/Collector: Paul DeBach
Box/Folder 20:19	"Effects of Short-Duration Sub-Optimum Pre-Oviposition Temperatures on Progeny Production and Sex Ratio in Species of <i>Aphytis</i> (Hymenoptera: Aphelinidae)" 1965-1966 Creator/Collector: Paul DeBachLoukia C. Argyriou
Box/Folder 20:20	"The Establishment and Progress of a New <i>Aphytis</i> Parasitic on the California Red Scale" 1961 Creator/Collector: Paul DeBachJohn Landi
Box/Folder 20:21	"The Establishment of <i>Metaphycus helvolus</i> (Compere) (Hymenoptera: Encyrtidae) on <i>Saissetia oleae</i> (Bern.) (Homoptera: Coccidae) in Olive Groves in Greece" 1968 Creator/Collector: Loukia C. ArgyriouPaul DeBach
Box/Folder 21:1	"The Evolutionary Plasticity of the Thelytokous Form of <i>Aphytis mytilaspidis</i> (Le Baron) (Hymenoptera: Aphelinidae)" 1973 Creator/Collector: Yoram RösslerPaul DeBach

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- Box/Folder 21:2 **"Experimental Studies on Hybridization and Sexual Isolation Between Some Aphytis Species (Hymenoptera: Aphelinidae). III. The Significance of Reproductive Isolation Between Interspecific Hybrids and Parental Species", 1 of 2 1967-1970**
 Creator/Collector: Sudha V. Rao Paul DeBach
- Box/Folder 21:3 **"Experimental Studies on Hybridization and Sexual Isolation Between Some Aphytis Species (Hymenoptera: Aphelinidae). III. The Significance of Reproductive Isolation Between Interspecific Hybrids and Parental Species", 2 of 2 1967-1970**
 Creator/Collector: Sudha V. Rao Paul DeBach
- Box/Folder 21:4 **"Experimental Studies on Hybridization and Sexual Isolation Between Some Aphytis Species (Hymenoptera: Aphelinidae). III. The Significance of Reproductive Isolation Between Interspecific Hybrids and Parental Species", Correspondence 1967-1970**
 Creator/Collector: Sudha V. Rao Paul DeBach
- Box/Folder 21:5 **"Experiental Techniques for Evaluation of the Effectiveness of Natural Enemies" 1961**
 Creator/Collector: Paul DeBach Carl B. Huffaker
- Box/Folder 21:6 **"Foreign Exploration for New Natural Enemies of Citrus Pests" 1957**
 Creator/Collector: Paul DeBach
- Box/Folder 21:7 **"Fortuitous Biological Control From Ecesis of Natural Enemies" 1969-1971**
 Creator/Collector: Paul DeBach
- Box/Folder 21:8 **"Genetic Variability in a Thelytokous Form of Aphytis mytilaspidis (LeBaron) (Hymenoptera: Aphelinidae)" undated**
 Creator/Collector: Paul DeBach Yoram Rössler
- Box/Folder 21:9 **"The Importance of Taxonomy to Biological Control as Illustrated by the Cryptic History of Aphytis holoxanthus n. sp. (Hymenoptera: Aphelinidae) a Parasite of Chrysomphalus aonidum (L.), and Aphytis coheni n. sp., a Parasite of Aonidiella aurantii (Mask.)" 1960**
 Creator/Collector: Paul DeBach
- Box/Folder 21:10 **"Insect Control, Biological" (McGraw-Hill Encyclopedia of Science and Technology) 1969**
 Creator/Collector: Paul DeBach
- Box/Folder 21:11 **"Integrated Control of Citrus Pests in California" 1965**
 Creator/Collector: Paul DeBach
- Box/Folder 21:12 **"The Introduced Purple Scale Parasite" 1962; undated**
 Creator/Collector: Paul DeBach John Landi
- Box/Folder 21:13 **Knickeberg Press 1959**
- Box/Folder 21:14 **"Memorandum on Artificial Field Infestations to Facilitate Biological Control" undated**
- Box/Folder 22:1 **"The Natural Enemy Component in Natural Control and the Theory of Biological Control" 1969**
 Creator/Collector: Carl B. Huffaker P.S. Messenger Paul DeBach
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Box/Folder 22:2	"A New Technique for Shipment of Natural Enemies" 1960 Creator/Collector: John LandiPaul DeBach
Box/Folder 22:3	"A New Species of <i>Aphytis</i> That Attacks Important Armored Scale Insects" 1979; undated Creator/Collector: Paul DeBachGordon Gordh
Box/Folder 22:4	"Notes on the Genus <i>Marlattella</i> Howard" 1960 Creator/Collector: David RosenPaul DeBach
Box/Folder 22:5	"Population Biology of the Cottony-Cushion Scale, <i>Icerya purchasi</i> Maskell (Homoptera: Coccidae) and Its Natural Enemies in Southern California" undated Creator/Collector: José R. QuezadaPaul DeBach
Box/Folder 22:6	"Principles and Possibilities of Biological Control of Pests" undated Creator/Collector: Paul DeBach
Box/Folder 22:7	Publications, 1 of 2 1969-1977
Box/Folder 22:8	Publications, 2 of 2 1969-1977
Box/Folder 22:9	Publications 1977-1982
Box/Folder 22:10	"A Rational Approach to Insect Control" 1965-1966 Creator/Collector: G. CarmanPaul DeBach
Box/Folder 22:11	"Research on Biological Control of Whiteflies" 1968-1969 Creator/Collector: Paul DeBachS.C. Warner
Box/Folder 23:1	Scales, 1 of 3 undated Creator/Collector: David RosenPaul DeBach
Box/Folder 23:2	Scales, 2 of 3 undated Creator/Collector: David RosenPaul DeBach
Box/Folder 23:3	Scales, 3 of 3 undated Creator/Collector: David RosenPaul DeBach
Box/Folder 23:4	Science Service 1959
Box/Folder 23:5	"The Significance of Per Cent Parasitization" 1955; undated Creator/Collector: Paul DeBach
Box/Folder 23:6	"Some Aspects of Biological Control" 1967 Creator/Collector: Paul DeBach
Box/Folder 23:7	"Some Ecological Aspects of Insect Eradication" 1963-1964 Creator/Collector: Paul DeBach
Box/Folder 23:8	"Species of <i>Aphytis</i> for Possible Use in the Biological Control of <i>Chrysomphalus dictyospermi</i> (Morgan)" 1962 Creator/Collector: Paul DeBach
Box/Folder 23:9	"Systematics, Morphology, and Biological Control" 1972 Creator/Collector: David RosenPaul DeBach
Box/Folder 23:10	Technical Reports 1943-1945
Box/Folder 23:11	"The Theoretical Basis of Importation of Natural Enemies" 1968-1969 Creator/Collector: Paul DeBach

- Box/Folder 23:12 **Thirtieth Citrus Institute: Pest Control Panel Discussion 1953**
Box/Folder 23:13 **"Transformation of Inseminated Females of *Aphytis lingnanensis* Compere (Hymenoptera: Aphelinidae) Into Factitious Virgins by Low Temperature Treatment" 1967**
 Creator/Collector: Paul DeBachSudha V. Rao
- Box/Folder 23:14 **"Uniparental, Sibling, and Semi-Species in Relation to Taxonomy and Biological Control" 1969**
 Creator/Collector: Paul DeBach
- Box/Folder 23:15 **"The Use of Imported Natural Enemies in Insect Pest Management Control" 1971**
 Creator/Collector: Paul DeBach
- Box/Folder 23:16 **Unpublished Manuscripts undated**
Box/Folder 23:17 **"A Wide-Range Variable Temperature Cabinet for Bio-Ecological Studies" 1960**
 Creator/Collector: Ernest B. WhitePaul DeBach
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Subseries 3.3 **Reference Card File undated**

Physical Description: 1.2 linear feet

Scope and Content Note

Reference cards for *Biological Control of Insect Pests and Weeds* and for book on scale insects.

- Box 24 **Card File: *Biological Control of Insect Pests and Weeds* , 1 of 2 undated**
Box 25 **Card File: *Biological Control of Insect Pests and Weeds* , 2 of 2 undated**
Box 26 **Card File: Scales undated**

Series 4 **Research Files 1921-1984**

Physical Description: 6.2 linear feet

Scope and Content Note

Arranged by subject in the following subseries: Projects and Proposals; Foreign Exploration; Specimen Files; and General Research Files.

Subseries 4.1 **Projects and Proposals 1947-1984**

Physical Description: 4.3 linear feet

Scope and Content Note

Arranged by subject in two subseries: International Biological Program Project and Other Projects and Proposals.

Subseries 4.1.1 **International Biological Program Project 1968-1982**

Physical Description: 2 linear feet

Scope and Content Note

Arranged alphabetically by title. Contains grants; project proposals; annual progress reports; related correspondence; and articles related to the International Biological Program's multi-agency Integrated Pest Management Program.

- Box/Folder 27:1 **Article, "Laboratory Rearing of the Coffee Bean Weevil" 1975**
 Creator/Collector: M.A. VitelliH.N. NiggR.F. Brooks

- Box/Folder 27:2 **Citrus Ecosystems, Budget 1972-1973**
Box/Folder 27:3 **Citrus Ecosystems Progress Reports and Plans 1973-1974**
Box/Folder 27:4 **Citrus Ecosystems, Progress Reports and Plans, 1 of 2 1974-1975**
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Box/Folder 27:5	Citrus Ecosystems, Progress Reports and Plans, 2 of 2 1974-1975
Box/Folder 27:6	Citrus Ecosystems, Publications 1974-1982
Box/Folder 27:7	Citrus Sub-Project 1969-1971
Box/Folder 27:8	Citrus Sub-Project, California 1971-1975
Box/Folder 27:9	Citrus Sub-Project, California Meeting 1972-1973
Box/Folder 27:10	Citrus Sub-Project, Correspondence 1971
Box/Folder 27:11	Citrus Sub-Project, Florida 1970-1971
Box/Folder 27:12	Citrus Sub-Project, Florida 1972-1975
Box/Folder 27:13	Citrus Sub-Project, Florida, Budget 1973
Box/Folder 28:1	Citrus Sub-Project, Florida, Importations 1973-1974
Box/Folder 28:2	Citrus Sub-Project, Funding 1971
Box/Folder 28:3	Citrus Sub-Project Leaders and Directors 1972-1973
Box/Folder 28:4	Citrus Sub-Project Leaders and Directors 1973-1974
Box/Folder 28:5	Citrus Sub-Project, "The Principles of Pest Population Regulation and Control in Citrus Ecosystems" 1971; undated
Box/Folder 28:6	Citrus Sub-Project, Proposal and Budget 1971
Box/Folder 28:7	Citrus Sub-Project, Progress Report 1967-1976
Box/Folder 28:8	Citrus Sub-Project, Progress Reports and Plans 1973
Box/Folder 29:1	Citrus Sub-Project, Proposals 1971; undated
Box/Folder 29:2	Citrus Sub-Project, Proposal 1972-1974
Box/Folder 29:3	Citrus Sub-Project, Proposals and Comments, 1 of 2 1970-1971
Box/Folder 29:4	Citrus Sub-Project, Proposals and Comments, 2 of 2 1970-1971
Box/Folder 29:5	Citrus Sub-Project Quarterly Report 1973-1974
Box/Folder 29:6	Citrus Sub-Project Report, Volume 1 1975
Box/Folder 29:7	Citrus Sub-Project, Steering Committee 1972-1974
Box/Folder 30:1	Citrus Sub-Project, Steering Committee 1973
Box/Folder 30:2	Citrus Sub-Project Sub-Umbrella 1971; undated
Box/Folder 30:3	Conference on Systems Analysis 1973-1974
Box/Folder 30:4	Crop Ecosystem Press Release 1971
Box/Folder 30:5	Florida, Pre-Citrus Sub-Project 1968-1971; undated
Box/Folder 30:6	Grant Proposal, "Ecology and Biological Control: An Inter-University Training Program" 1969
Box/Folder 30:7	Grant Proposal, "Pest Control Through Applied Ecology" 1971
Box/Folder 30:8	Grant Proposal, "Pest Population Ecology: An Inter-University Training Program" 1969
Box/Folder 30:9	Grant Proposals 1970-1971
Box/Folder 30:10	Grant Renewal (14489) 1971
Box/Folder 30:11	Grant Renewal (GB 7444) 1970
Box/Folder 30:12	Integrated Pest Management Executive Committee 1974-1976
Box/Folder 30:13	Letter to Collaborators 1971
Box/Folder 30:14	Meeting, Dallas, Texas 1973-1974
Box/Folder 30:15	Newsletters 1973-1974
Box/Folder 31:1	Organizing Work Conference, Reports 1970
Box/Folder 31:2	Original Letter 1967
Box/Folder 31:3	Pest Management 1971
Box/Folder 31:4	Pest Population Ecology Articles 1969; undated
Box/Folder 31:5	Pest Population Ecology Lecture, "Biological Control of Scale Insects as Illustrative of Principles and Practices" undated
Box/Folder 31:6	Pest Population Ecology Lecture, "Competitive Displacement Between Ecological Homologues" undated
Box/Folder 31:7	Pest Population Ecology Lecture, "Effects of Weather on the Success of Parasites in Population Regulation" undated
Box/Folder 31:8	Pest Population Ecology Lecture, "Evaluation of Effectiveness of Natural Enemies" undated
Box/Folder 31:9	Pest Population Ecology Proposal, Cornell 1969
Box/Folder 31:10	Pest Population Ecology Proposal, North Carolina 1969
Box/Folder 31:11	Prefacing Statement of Integration of Project Proposals Submitted as Components of an Integrated Program of Biological Control undated

Box/Folder 31:12	Principles, Strategies, and Tactics of Pest Population Regulation and Control in Major Crop Ecosystems 1969-1971
Box/Folder 31:13	Progress Reports and Plans 1972-1973
Box/Folder 31:14	Proposals, Insect Pathogens 1970-1971; undated
Box/Folder 31:15	José Quezada, Correspondence 1972
Box/Folder 31:16	San Joaquin 1973-1976
Box/Folder 31:17	Seminar in Biological Control, Winter Quarter (Riverside) 1970
Box/Folder 31:18	"Some Information Regarding the Pest Population Ecology Training Program in the University of California" 1969
Box/Folder 31:19	Texas, Budget 1974
Box/Folder 31:20	Texas, Importations 1974
Box/Folder 31:21	Texas, Progress Reports and Plans 1973-1974
Box/Folder 31:22	Umbrella Project 1970-1971
Box/Folder 32:1	Working Conference on Biological Control of Diaspine Scale Insects 1968
Box/Folder 32:2	Working Conference on the Principles of Pest Population Regulation and Control for Major Crop Ecosystems 1970
	Subseries 4.1.2 Other Projects and Proposals 1947-1984
	Physical Description: 2.3 linear feet
	Scope and Content Note
	Arranged alphabetically. Contains drafts and final submitted versions of grants; drafts of project proposals; annual progress reports; and related correspondence.
Box/Folder 32:3	Citrus Advisory Board: Red Scale Project 1976-1979
Box/Folder 32:4	Grant: "Biosystematics and Phylogeny of Species of <i>Aphytis</i> (Hymenoptera: Aphelinidae) of the World" (GB 7444) 1967-1974
Box/Folder 32:5	Grant: "Biosystematics and Phylogeny of Species of <i>Aphytis</i> (Hymenoptera: Aphelinidae) of the World" (GB 7444), Reports 1967; undated
Box/Folder 32:6	Grant: "Biosystematics and Phylogeny of Species of <i>Aphytis</i> (Hymenoptera: Aphelinidae) of the World" (GB 17829), Correspondence 1969-1976
Box/Folder 32:7	Grant: "Biosystematics and Phylogeny of Species of <i>Aphytis</i> (Hymenoptera: Aphelinidae) of the World" (GB 17829), Proposal 1969-1972
Box/Folder 32:8	Grant: "Biosystematics and Phylogeny of Species of <i>Aphytis</i> (Hymenoptera: Aphelinidae) of the World" (GB 17829), Reports 1968-1975
Box/Folder 32:9	Grant: "Numeric Taxonomic Revision of <i>Encarsia</i> Foerster and <i>Prospaltella</i> Ashmead (Hymenoptera: Aphelinidae), Primary Parasites of Diaspidid Scale Insects" (P4B1830/74-122244) [1972?]
Box/Folder 32:10	Grant: "Pest Control Through Applied Ecology" (GZ 1373) 1969-1972
Box/Folder 32:11	Grant: "Pest Control Through Applied Ecology" (GZ 1373), Budgets 1968-1972
Box/Folder 33:1	Grant: "Pest Control Through Applied Ecology" (GZ 1373), Proposals 1969-1971
Box/Folder 33:2	Grant: "Pest Control Through Applied Ecology" (GZ 1373), Reports 1969-1974
Box/Folder 33:3	Grant: "Pest Control Through Applied Ecology" (GZ 1373), Seminars 1965-1970; undated
Box/Folder 33:4	Grant: "Pest Population Ecology: An Inter-University Training Program" (GZ 1896) 1969-1977
Box/Folder 33:5	Grant: "Pest Population Ecology: An Inter-University Training Program" (GZ 1896), Reports 1971-1973
Box/Folder 33:6	Grant: "Principles, Strategies, and Tactics of Pest Population Regulation and Control in the Citrus Ecosystem" (GB 34718) 1974
Box/Folder 33:7	Grant: "The Role of Entomophagous Insects in Population Regulation of Armored Scale Insects" (GB 6776) 1966-1970
Box/Folder 33:8	Grant: "The Role of Entomophagous Insects in Population Regulation of Armored Scale Insects" (GB 6776), Budgets 1967-1969
Box/Folder 34:1	Grant: "The Role of Entomophagous Insects in Population Regulation of Armored Scale Insects" (GB 6776), Proposals 1967; undated
Box/Folder 34:2	Grant: "The Role of Entomophagous Insects in Population Regulation of Armored Scale Insects" (GB 6776), Reports 1965

Box/Folder 34:3	Grant: "The Role of Entomophagous Insects in Population Regulation of Armored Scale Insects" (GB 14489) 1969-1974
Box/Folder 34:4	Grant: "The Role of Entomophagous Insects in Population Regulation of Armored Scale Insects" (GB 30843X) 1971-1974
Box/Folder 34:5	Grant: "The Role of Entomophagous Insects in Population Regulation of Armored Scale Insects" (GB 30843X2) 1971-1975
Box/Folder 34:6	Grant: "Some Sources of Population Ecology and Biology of <i>Aphytis</i> spp. and the Biosystematics and Phylogeny of Species of <i>Aphytis</i> of the World" (GZ 20870) 1962-1965
Box/Folder 34:7	Grant: "Training Program in the Integrated Control of Pest Insects" (71-134) 1971-1975
Box/Folder 34:8	International Organization for Biological Control: Amsterdam Meeting 1969
Box/Folder 34:9	International Organization for Biological Control: Western Hemisphere Regional Section Mailing List 1970 December
Box/Folder 35:1	International Organization for Biological Control: Western Hemisphere Regional Section, First Information Leaflet 1970
Box/Folder 35:2	International Organization for Biological Control: Western Hemisphere Regional Section, Status 1970
Box/Folder 35:3	National Science Foundation: General Correspondence 1971-1977
Box/Folder 35:4	National Science Foundation: New Proposals 1973-1981
Box/Folder 35:5	National Science Foundation: Research Reports 1973-1978
Box/Folder 35:6	Other Project Reports (Experiment Station) 1958-1970
Box/Folder 35:7	Project Memos 1957-1959
Box/Folder 35:8	Project Report Information 1949-1955
Box/Folder 35:9	Projects: Ann Strawn 1975
Box/Folder 35:10	Projects: Annual Reports 1966
Box/Folder 35:11	Projects: Ant Pheromone Research 1975
Box/Folder 35:12	Projects: Argentine Ant 1975-1976
Box/Folder 35:13	Projects: Biological Control and Management of Homopterous Insects and Pests on San Joaquin Valley Citrus (2524) 1967-1979
Box/Folder 35:14	Projects: Biological Control of Lecaniine Scales, Mealybugs, Aphids, Whiteflies, and Other Homopterous Insects on Citrus and Other Subtropicals (1496) 1961-1970
Box/Folder 35:15	Projects: Biological Control of Lecaniine Scales, Mealybugs, Aphids, Whiteflies, and Other Homopterous Insects on Citrus and Other Subtropicals (1496) 1970-1981
Box/Folder 35:16	Projects: Biological Control of Red, Yellow, etc. Diaspine Scales (1493-H) 1967-1970
Box/Folder 35:17	Projects: Biological Control of Red, Yellow, etc. Diaspine Scales (1493-H) 1971-1978
Box/Folder 35:18	Projects: Biological Control of Red, Yellow, etc. Diaspine Scales (1493-H), Annual Report 1953-1954
Box/Folder 36:1	Projects: Biological Control of Red, Yellow, etc. Diaspine Scales (1493-H), Annual Report 1954-1955
Box/Folder 36:2	Projects: Biological Control of Red, Yellow, etc. Diaspine Scales (1493-H), Annual Report 1955-1956
Box/Folder 36:3	Projects: Biological Control of Red, Yellow, etc. Diaspine Scales (1493-H), Annual Report 1956-1957
Box/Folder 36:4	Projects: Biological Control of Red, Yellow, etc. Diaspine Scales (1493-H), Annual Report 1957-1958
Box/Folder 36:5	Projects: Biological Control of Red, Yellow, etc. Diaspine Scales (1493-H), Annual Report 1958
Box/Folder 36:6	Projects: Biological Control of Red, Yellow, etc. Diaspine Scales (1493-H), Annual Report 1959-1960
Box/Folder 36:7	Projects: Biological Control of Red, Yellow, etc. Diaspine Scales (1493-H), Annual Report 1960
Box/Folder 36:8	Projects: Biological Control of Red, Yellow, etc. Diaspine Scales (1493-H), Annual Report 1961

Box/Folder 36:9	Projects: Biological Control of Red, Yellow, etc. Diaspine Scales (1493-H), Annual Report 1962
Box/Folder 36:10	Projects: Biological Control of Red, Yellow, etc. Diaspine Scales (1493-H), Annual Report 1963
Box/Folder 36:11	Projects: Biological Control of Red, Yellow, etc. Diaspine Scales (1493-H), Annual Report 1964
Box/Folder 36:12	Projects: Biological Control of Red, Yellow, etc. Diaspine Scales (1493-H), Annual Report 1965
Box/Folder 36:13	Projects: Biological Control of Red, Yellow, etc. Diaspine Scales (1493-H), Annual Report, Sub-Project E 1960 January-1960 June
Box/Folder 36:14	Projects: Biological Control of Red, Yellow, etc. Diaspine Scales (1493-H), Reports 1953
Box/Folder 36:15	Projects: Biological Control of Whitefly (Homoptera: Aleurodae) Pests of Crops and Ornamentals 1974-1984
Box/Folder 36:16	Projects: Experiment Station 1949-1950
Box/Folder 37:1	Projects: Japanese Bayberry Whitefly 1978-1979
Box/Folder 37:2	Projects: Japanese Bayberry Whitefly, Correspondence 1979-1980
Box/Folder 37:3	Projects: Mass Cultures of Entomophagous Insects for Periodic Liberation (1322) 1948-1952
Box/Folder 37:4	Projects: Miscellaneous 1972-1977
Box/Folder 37:5	Projects: Preparation of a Book, "The Fundamentals of Biological Control" (1851) 1959
Box/Folder 37:6	Projects: Red Scale 1955-1979
Box/Folder 37:8	Projects: Red Scale, Budget 1951
Box/Folder 37:9	Projects: Studies on Periodic Colonization of Entomophagous Insects as a Means of Pest Control (1323) 1947-1952
Box/Folder 37:10	Projects: Studies on the Effect of Pesticides on Entomophagous Insects (1326) 1948-1952
Box/Folder 37:11	Projects: Systematics of Chalcidae, Particularly Aphelinidae, Encyrtidae, and Signiphoridae (1325) 1963-1981; undated
Box/Folder 37:12	Proposal: Biosystematics of the Aphelinidae undated
Box/Folder 37:13	Proposal: Pest Population Ecology -- An Inter-University Training Program 1974

Subseries 4.2 **Foreign Exploration 1951-1979****Physical Description:** 0.4 linear feet**Scope and Content Note**

Arranged alphabetically. Contains memos, plans, data, and correspondence related to DeBach's travels to investigate foreign predators and parasites. Also contains correspondence with other researchers.

Box/Folder 37:14	Argentina 1974
Box/Folder 37:15	Australia 1973-1974
Box/Folder 37:16	Burma 1956-1957
Box/Folder 37:18	Chile 1974
Box/Folder 37:19	China 1973
Box/Folder 38:1	Denmark 1975
Box/Folder 38:2	Foreign Exploration Correspondence 1972-1978
Box/Folder 38:3	Fiji 1974
Box/Folder 38:4	Ghana 1973-1974
Box/Folder 38:5	Gonzales' Mideast Trip 1973-1976
Box/Folder 38:6	Guatemala 1975
Box/Folder 38:7	Hong Kong 1973-1974
Box/Folder 38:8	India 1973-1974
Box/Folder 38:9	Iran 1973-1974
Box/Folder 38:10	Israel 1974-1976
Box/Folder 38:11	Italy 1974
Box/Folder 38:12	Japan 1972-1975

Box/Folder 38:13	Korea 1973-1975
Box/Folder 38:14	Mexico 1951-1955
Box/Folder 38:15	Morocco 1974
Box/Folder 38:16	New Caledonia 1975
Box/Folder 38:17	Pakistan 1972-1975
Box/Folder 38:18	Peru 1974
Box/Folder 38:19	South Africa 1973-1974
Box/Folder 38:20	Swaziland 1973-1974
Box/Folder 38:21	U.S.S.R. 1974
Box/Folder 38:22	University of California Budget Information 1977-1979

Subseries 4.3 **Specimen Files 1957-1982****Physical Description:** 0.3 linear feet**Scope and Content Note**

Arranged alphabetically. Includes correspondence and official authorizations related to shipment and quarantine of insect specimens.

Box/Folder 38:23	Parasite Requests 1979
Box/Folder 38:24	Permits: Quarantine 1971-1980
Box/Folder 38:25	Quarantine: Correspondence 1970-1979
Box/Folder 39:1	Quarantine Guidelines and Procedures 1976-1978
Box/Folder 39:2	Release Authorizations: Quarantine 1959-1982
Box/Folder 39:3	Shipments of Specimens 1973-1979
Box/Folder 39:4	Shipments: Australia 1958-1967
Box/Folder 39:5	Shipments: Chile 1959
Box/Folder 39:6	Shipments: Greece 1957
Box/Folder 39:7	Shipments: India 1959
Box/Folder 39:8	Shipments: Israel 1966-1968
Box/Folder 39:9	Shipments: Japan 1958
Box/Folder 39:10	Shipments: Mexico 1955-1967
Box/Folder 39:11	Shipments: Miscellaneous 1966-1968
Box/Folder 39:12	Shipments: Peru 1957-1958

Subseries 4.4 **General Research Files 1921-1981****Physical Description:** 0.8 linear feet**Scope and Content Note**

Arranged alphabetically. Research data, notes, and writings on *Aphytis* and *Spalangia*, mealybugs, ants, houseflies, white-finged beetle, and other insects. Also includes reprints, correspondence, and reports.

Box/Folder 39:13	Armored Scale List 1971 April
Box/Folder 39:14	<i>Aphytis</i> and Other Continuing Studies 1953-1973
Box/Folder 39:15	<i>Aphytis</i> Data undated
Box/Folder 39:16	<i>Aphytis</i> Data 1951-1953; undated
Box/Folder 39:17	<i>Aphytis lingnanensis</i>: Summer Survival Tests 1957
Box/Folder 39:18	Bulletins and Printed Matter: Striped Mealybug 1921; undated
Box/Folder 39:19	California State Department of Agriculture: Biological Control Section 1923-1975
Box/Folder 40:1	Citrus Advisory Board: Correspondence 1976-1980
Box/Folder 40:2	Citrus Advisory Board: General 1977-1979
Box/Folder 40:2	Citrus Advisory Board: General Information 1977-1979
Box/Folder 40:3	Citrus Advisory Board: Reports, 1 of 2 1971-1981
Box/Folder 40:4	Citrus Advisory Board: Reports, 2 of 2 1971-1981
Box/Folder 40:5	<i>Comperiella bifasciata</i>: Effect of Temperature and Humidity 1959-1962; undated
Box/Folder 40:6	Effect of Ants 1948-1950
Box/Folder 40:7	Effect of Food and Water on Longevity of Newly Emerged <i>Aphytis</i> 1951
Box/Folder 40:8	Experiments to Determine the Period of Gestation in <i>Spalangia</i> undated

Box/Folder 40:9	Field Exposures of All Stages of <i>Aphytis lingnanensis</i> (Harry Maltby) 1955
Box/Folder 40:10	Housefly Longevity and Fecundity Tests 1939-1940
Box/Folder 40:11	Mortality of Immature <i>Aphytis</i> 1949-1953
Box/Folder 41:1	Mytilaspidis and Aonidae Forms undated
Box/Folder 41:2	Parasite/Predator Release Reports: Striped Mealybug 1965-1967
Box/Folder 41:3	Periodic Colonization of <i>Aphytis</i>, etc. 1950
Box/Folder 41:4	Red Scale Ecological Studies 1948-1952
Box/Folder 41:5	Red Scale Settling 1940-1952
Box/Folder 41:6	Relative Efficacy of the California Red Scale Parasites 1948-1953
Box/Folder 41:7	Repellants, Fumes, and Road Dust: <i>Aphytis</i> "A" 1950-1952
Box/Folder 41:8	Reprints 1931-1952
Box/Folder 41:9	South Coast Field Station 1979
Box/Folder 41:10	State Department of Food and Agriculture: Colonizations 1954-1980
Box/Folder 41:11	State Department of Food and Agriculture: Correspondence 1955-1979
Box/Folder 41:12	State Department of Food and Agriculture: Pest Control Circular 1971-1979
Box/Folder 41:13	State Department of Food and Agriculture: Reports 1976-1977
Box/Folder 42:1	Striped Mealybug: Correspondence and General Information 1943-1969
Box/Folder 42:2	United States Department of Agriculture: Control of DDT 1968-1980; undated
Box/Folder 42:3	United States Department of Agriculture: Correspondence 1955-1979
Box/Folder 42:4	United States Department of Agriculture: Meetings and Reports 1957-1976
Box/Folder 42:5	White-Fringed Beetle, 1 of 2 1937-1943
Box/Folder 42:6	White-Fringed Beetle, 2 of 2 1937-1943
Box D Legal 1	Winter Survival Tests: <i>Aphytis lingnanensis</i> 1955-1956
Box/Folder 42:7	Winter Survival Tests: <i>Aphytis lingnanensis</i> 1956-1957

Series 5 **Photographs 1940-1970****Physical Description:** 0.3 linear feet**Scope and Content Note**

Arranged alphabetically. Mainly illustrations and figures from papers, including images of scales, vedalia beetles, and laboratory rearing procedures.

Box/Folder 42:8	Aphytis and Other Continuing Studies 1970; undated Physical Description: 20 photographic prints
Box/Folder 42:9	Aphytis and Other Continuing Studies, Negatives undated Physical Description: 5 photographic negatives
Box/Folder 42:10	<i>Aphytis nr mytilaspidis</i> undated Physical Description: 6 photographic prints
Box/Folder 42:11	"Biological Control of Coccidae", Figures undated Physical Description: 4 photographic prints
Box/Folder 42:12	"Biological Control of Coccids by Introduced Enemies", Figures undated Physical Description: 13 photographic prints
Box/Folder 42:13	Biological Control of Insect Pests and Weeds, Chapter 2, Vedralia and Cottony-Cushion Scale undated Physical Description: 4 photographic prints
Box/Folder 42:7	Biological Control of Insect Pests and Weeds, Chapter 15, Figure 1 undated Physical Description: 2 photographic prints
Box/Folder 42:8	Biological Control of Insect Pests and Weeds, Photos as Returned From Mexico undated Physical Description: 107 photographic prints

Box/Folder 42:9	Biological Control of Insect Pests and Weeds, Photos as Returned From Mexico, Negatives undated Physical Description: 1 photographic negative
Box/Folder 42:10	"Biological Control of Red, Yellow, etc. Diaspine Scales", Figures undated Physical Description: 8 photographic prints
Box/Folder 42:11	"Biological Control of Red, Yellow, etc. Diaspine Scales", Annual Report, Figures 1958 Physical Description: 2 photographic prints
Box/Folder 42:12	"Biological Control of Red, Yellow, etc. Diaspine Scales", Annual Report, Figures 1959-1960 Physical Description: 4 photographic prints
Box/Folder 42:13	"Biological and Taxonomic Studies of <i>Signiphora borinquensis</i> , New Species (Hymenoptera: Signiphoridae), a Primary Parasite of Diaspine Scales", Figures undated Physical Description: 6 photographic prints
Box/Folder 42:14	"Biosystematic Studies on the Species of <i>Aphytis</i>", Negative undated Physical Description: 1 photographic negative
Box/Folder 42:15	Citron Melons Infested With Purple Scale undated Physical Description: 3 photographic prints
Box/Folder 42:16	"Competitive Displacement Between Ecological Homologues", Figures undated Physical Description: 25 photographic prints
Box/Folder 42:17	DDT Tree Photos undated Physical Description: 3 photographic prints
Box/Folder 43:1	Paul DeBach 1940 Physical Description: 1 photographic print
Box/Folder 43:2	Paul DeBach and Harry Maltby (?), Sonora, Mexico 1965 November Physical Description: 2 photographic prints
Box/Folder 43:3	"Effects of Short-Duration Sub-Optimum Pre-Oviposition Temperatures on Progeny Production and Sex Ratio in Species of <i>Aphytis</i> (Hymenoptera: Aphelinidae)", Figures undated Physical Description: 2 photographic prints
Box/Folder 43:4	"The Establishment and Progress of a New <i>Aphytis</i> Parasitic on the California Red Scale", Figures 1961 Physical Description: 2 photographic prints
Box/Folder 43:5	"Experimental Studies on Hybridization and Sexual Isolation Between Some <i>Aphytis</i> Species (Hymenoptera: Aphelinidae). III. The Significance of Reproductive Isolation Between Interspecific Hybrids and Parental Species", Figures undated Physical Description: 26 photographic prints
Box/Folder 43:6	"Experimental Techniques of Evaluation of the Effectiveness of Natural Enemies", Figures undated Physical Description: 14 photographic prints

- Box/Folder 43:7 **"Fortuitous Biological Control From Ecesis of Natural Enemies", Figures undated**
Physical Description: 3 photographic prints, 1 slide
- Box/Folder 43:8 **"Genetic Variability in a Thelytokous form of *Aphytis mytilaspidis* (LeBaron) (Hymenoptera: Aphelinidae)", Figures undated**
Physical Description: 35 photographic prints
- Box/Folder 43:9 **"Insect Control, Biological", Figures 1969**
Physical Description: 2 photographic prints
- Box/Folder 43:10 **"International Biological Program: Citrus Sub-Project, Progress Report", Figures undated**
Physical Description: 19 photographic prints
- Box/Folder 43:11 **"Laboratory Rearing of the Coffee Bean Weevil", Figures 1975**
Physical Description: 3 photographic prints
- Box/Folder 43:12 **"Memorandum on Artificial Field Infestations", Figures undated**
Physical Description: 2 photographic prints
- Box/Folder 43:13 **"A New Species of *Aphytis* That Attacks Important Armored Scale Insects", Figures undated**
Physical Description: 1 photographic print
Scope and Content Note
Aphytis roseni
- Box/Folder 43:14 **Osa: Proposed Land Trade undated**
Physical Description: 1 slide
- Box/Folder 43:15 **Soviet Entomologists 1947**
Physical Description: 1 photographic print
- Box/Folder 43:16 **"Uniparental, Sibling, and Semi-Species in Relation to Taxonomy and Biological Control", Figures 1969**
Physical Description: 2 photographic prints
- Box/Folder 43:17 **Vedalia Beetles undated**
Physical Description: 1 photographic print
- Box/Folder 43:18 **"A Wide-Range Variable Temperature Cabinet for Bio-Ecological Studies", Figures 1960**
Physical Description: 5 photographic prints