

# Guide to the F. Herbert Bormann Papers

MS 2012



compiled by Christy Tomecek and Robert Bartels

May 2016

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## Collection Overview

**REPOSITORY:** Manuscripts and Archives  
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**CALL NUMBER:** MS 2012

**CREATOR:** Bormann, F. Herbert, 1922-2012

**TITLE:** F. Herbert Bormann papers

**DATES:** 1950–2009

**PHYSICAL DESCRIPTION:** 26.7 linear feet (72 boxes)

**PHYSICAL DESCRIPTION:** 130.551 Megabytes

**LANGUAGE:** The material is in English.

**SUMMARY:** The papers document the professional work of ecologist F. Herbert Bormann. The bulk of the papers comprise research materials, speeches, and writings. Research materials include notes, photographs, and grant reports and proposals. Projects that are the most represented include smaller studies at Hubbard Brook Experimental Forest and the Sandbox project. Speeches and writings include articles for popular magazines and newspapers, book drafts, testimony for legislative bodies, and award acceptance speeches. There are also some non-academic writings. Correspondence included in the collection is mainly with colleagues, including some on specific topics such as tropical forestry and the Hubbard Brook Foundation. There is a small amount of personal correspondence as well. Teaching materials are limited and include some syllabi, course notes and materials for specific courses, and lectures on various topics. The papers cover his work from 1950 to 2009, with much of the collection dating from the mid 1980s to the mid 2000s.

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## Requesting Instructions

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Key to the container abbreviations used in the PDF finding aid:

b.      box

f. folder

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## Administrative Information

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### Immediate Source of Acquisition

Gift of M. Christine Bormann, 2015. Accession 2020-M-0024 gift of Gene Likens, 2019.

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### Conditions Governing Access

The bulk of the collection is open for research.

Yale University related files are restricted until 2055 as established by Yale Corporation regulations. Student records are restricted until 2095 as established by Yale Corporation regulations. <http://web.library.yale.edu/mssa/collections/research-use-of-yale-university-archives>.

Original computer files may not be accessed due to their fragility. Researchers must consult access copies.

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### Conditions Governing Use

Copyright for unpublished materials authored or otherwise produced by F. Herbert Bormann was transferred to Yale University in 2015. These materials may be used for non-commercial purposes without seeking permission from Yale University as the copyright holder. For other uses of these materials, please contact [beinecke.library@yale.edu](mailto:beinecke.library@yale.edu). Copyright status for other collection materials is unknown. Transmission or reproduction of materials protected by U.S. Copyright Law (Title 17, U.S.C.) beyond that allowed by fair use requires the written permission of the copyright owners. Works not in the public domain cannot be commercially exploited without permission of the copyright owners. Responsibility for any use rests exclusively with the user.

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### Preferred Citation

F. Herbert Bormann Papers (MS 2012). Manuscripts and Archives, Yale University Library.

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### Separated Materials

Computer systems disks and disks consisting of duplicates were discarded.

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## Biographical / Historical

Frederick Herbert Bormann (who used the name Herb) was born on March 24, 1922, in New York, New York. He initially enrolled at the University of Idaho but left after one semester in order to enlist in the United States Navy when the United States entered World War II. After working as a ship fitter and welder, he was selected for officer candidate school at Princeton University. After World War II, he earned his bachelor's degree in agricultural science from Rutgers University in 1948 and his doctorate in plant ecology from Duke University in 1952. He then worked at Emory University, where he taught botany from 1952 to 1956. He moved on to Dartmouth College in 1956 and assumed the position of Oastler Professor of Forest Ecology at Yale University's School of Forestry and Environmental Studies in 1966, where he remained for the rest of his career.

While at Dartmouth, he would take his classes on field trips to study plant life in White Mountain National Forest. He also conducted research at a hydrologic research site at Hubbard Brook Experimental Forest,

opened in 1955. Bormann formed a partnership with Gene E. Likens and Noye Johnson from Dartmouth and Robert Pierce of the United States Forest Service to study a watershed within Hubbard Brook. He continued to travel to Hubbard Brook after he started teaching at Yale. His work on the Hubbard Brook Ecosystem Study and others, as well as research performed by other scientists who came to Hubbard Brook yielded a vast body of knowledge of the functions of ecosystems.

His work with Likens, Johnson, Pierce, and others also brought attention to the damage done by humans on these ecosystems. They studied the effects of clear-cutting, when lumber companies cut down every tree in a set area, on soil and water. This research showed that soil lacked important nutrients, and water levels and water quality decreased in these areas as well. They also studied chemical interactions in the ecosystem. Through this work, they discovered that the precipitation in the area was far more acidic than expected. Bormann and Likens also documented the effects of acidic precipitation on the ecosystem in Hubbard Brook, such as plant damage and fish kills. This work was used in the preparation of the Clean Air Act in 1990, which worked to reduce acid rain. Bormann retired from teaching in 1992, although he did continue to work on research as well as offer seminars and lectures on occasion. One of his later projects was studying traditional methods of caring for lawns and the problems fertilizers posed for the environment. He also was interested in suburbanization's effects on the ecology of an area and bridging public policy and environmental research.

Bormann won many prizes for his work over the years, including the Tyler Prize for Environmental Achievement (which he shared with Likens), the National Wildlife Foundation's National Conservation Achievement Award in Science, and Yale's Aldo Leopold Award, which has only been given to one previous academic. He also was elected to the National Academy of Sciences at age 49, one of the youngest scientists to receive that honor. Bormann died on June 7, 2012. He was survived by his wife, M. Christine Williamson Bormann, four children, and six grandchildren.

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## Scope and Contents

The papers document the professional work of ecologist F. Herbert Bormann. The bulk of the papers comprise research materials, speeches, and writings. Research materials include notes, photographs, and grant reports and proposals. Projects that are the most represented include smaller studies at Hubbard Brook Experimental Forest and the Sandbox project. Speeches and writings include articles for popular magazines and newspapers, book drafts, testimony for legislative bodies, and award acceptance speeches. There are also some non-academic writings. Correspondence included in the collection is mainly with colleagues, including some on specific topics such as tropical forestry and the Hubbard Brook Foundation. There is a small amount of personal correspondence as well. Teaching materials are limited and include some syllabi, course notes and materials for specific courses, and lectures on various topics. The papers cover his work from 1950 to 2009, with much of the collection dating from the mid 1980s to the mid 2000s.

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## Arrangement

The papers are arranged in four series and one accession: I. Correspondence, 1957-2009. II. Research materials, 1950-2006. III. Teaching materials, 1967-2006. IV. Speeches and writings, 1950-2009.

## Collection Contents

### Series I: Correspondence, 1957–2009

This series comprises professional and correspondence sent to and from Bormann. The series has been subdivided into three sections: general, individuals and organizations, and topical. General correspondence is made up of individuals that Bormann did not correspond with a significant amount and is mostly personal in nature. Individuals and organizations contains information about research in progress, travel arrangements for events, and writing projects. Topical contains correspondence related to specific projects and publications, advocacy Bormann participated in, letters to the editor, and academic recommendations. General correspondence is arranged chronologically while correspondence related to specific individuals and organizations and topics are arranged alphabetically.

b. 1, f. 1-6	General	1957-2008, undated
	Individuals and organizations	
b. 1, f. 7	Aber, John: book outline	2005
b. 1, f. 8-9	Anko, Boštjan	1999–2004
b. 1, f. 10	Asahi	2003
b. 1, f. 11	Bock, Ed	2006
b. 1, f. 12-13	Bourdeau, Philippe	1995–2004
b. 1, f. 14	Burch, William	June 29, 2001
b. 1, f. 15	Chinese School of Foresters	1988
b. 20	Coweeta 50th anniversary symposium correspondence 2015-M-065-0005 <i>15.25_floppy_disk (720 kilobytes)</i> Date for this material was provided by the creator.  As a preservation measure, original materials may not be used. Digital access copies must be provided for use. Contact Manuscripts and Archives at <a href="mailto:beinecke.library@yale.edu">beinecke.library@yale.edu</a> to request access  This material was imaged or captured by the Yale University Digital Accessioning Support Service (DASS) in 2017 for preservation and access. For more information on the DASS and the actions taken during its accessioning work, click here: <a href="#">Born Digital @ Yale: Digital Accessioning Support Service</a> .	1984
b. 1, f. 16	Dochinger, Leon S.	January 15, 1986

## Individuals and organizations (continued)

b. 19	Hubbard Brooks cooperative meeting correspondence 2015-M-065-0024 <i>13.5_floppy_disk (720 kilobytes)</i> Date for this material was provided by the creator.  As a preservation measure, original materials may not be used. Digital access copies must be provided for use. Contact Manuscripts and Archives at <a href="mailto:beinecke.library@yale.edu">beinecke.library@yale.edu</a> to request access  This material was imaged or captured by the Yale University Digital Accessioning Support Service (DASS) in 2017 for preservation and access. For more information on the DASS and the actions taken during its accessioning work, click here: <a href="#">Born Digital @ Yale: Digital Accessioning Support Service</a> .	1985
b. 1, f. 17	Fickle, Jim	2006
b. 1, f. 18	George?	January 8, 2003
b. 1, f. 19	Gill, Dave	1999
b. 1, f. 20	<i>Harper's Magazine</i>	2004
b. 1, f. 21	Hughes, Jeff	1995–1996
b. 1, f. 22-23	Jackson, Rob	2001–2003
b. 1, f. 24-25	Keller, Kent: Sandbox	1994–2004
b. 1, f. 26	Leah?	2006
b. 1, f. 27	Likens, Gene	1992–2005
b. 20	Mellon Cloud Water grant 2015-M-065-0008 <i>15.25_floppy_disk (720 kilobytes)</i> Date for this material was approximated from related materials.  As a preservation measure, original materials may not be used. Digital access copies must be provided for use. Contact Manuscripts and Archives at <a href="mailto:beinecke.library@yale.edu">beinecke.library@yale.edu</a> to request access.  This material was imaged or captured by the Yale University Digital Accessioning Support Service (DASS) in 2017 for preservation and access. For more information on the DASS and the actions taken during its accessioning work, click here: <a href="#">Born Digital @ Yale: Digital Accessioning Support Service</a> .	circa 1985
b. 1, f. 28	Opie, Jon	May 2005
b. 1, f. 29	Parrotta, John	1991–1992
b. 1, f. 30-31	Sleeper, David	2004–2005
b. 1, f. 32	Speth, Gus	2001–2002
b. 1, f. 33	Swank, Wayne	2005
b. 1, f. 34	Swanson, Ann	1998–2004

## Individuals and organizations (continued)

b. 1, f. 35	United States Forest Service	1960–1965
b. 1, f. 36-37	University of Vermont	2003–2005
b. 1, f. 38	White, Gilbert	February 7, 1983
Topical		
b. 1, f. 39	Bucket watershed	1998
b. 2, f. 1	Correspondence regarding publications	1990–1997
b. 2, f. 2	“Cotton is King” English	2006
b. 2, f. 3	Deer Path Farm	2002
b. 20	Economics, ecology, ethics lecture series correspondence 2015-M-065-0003 <i>15.25_floppy_disk (720 kilobytes)</i> Date for this material was provided by the creator.  As a preservation measure, original materials may not be used. Digital access copies must be provided for use. Contact Manuscripts and Archives at <a href="mailto:beinecke.library@yale.edu">beinecke.library@yale.edu</a> to request access.  This material was imaged or captured by the Yale University Digital Accessioning Support Service (DASS) in 2017 for preservation and access. For more information on the DASS and the actions taken during its accessioning work, click here: <a href="#">Born Digital @ Yale: Digital Accessioning Support Service</a> .	1987
b. 2, f. 4	Ethics and the Environment scholarship	1992
b. 2, f. 5	Governance committee, Hubbard Brook Foundation	2001
b. 20	Hawaii trip 2015-M-065-0009 <i>15.25_floppy_disk (720 kilobytes)</i> Date for this material was provided by the creator.  As a preservation measure, original materials may not be used. Digital access copies must be provided for use. Contact Manuscripts and Archives at <a href="mailto:beinecke.library@yale.edu">beinecke.library@yale.edu</a> to request access.  This material was imaged or captured by the Yale University Digital Accessioning Support Service (DASS) in 2017 for preservation and access. For more information on the DASS and the actions taken during its accessioning work, click here: <a href="#">Born Digital @ Yale: Digital Accessioning Support Service</a> .	1987
b. 2, f. 6-7	History of Yale University’s School of Forestry and Environmental Science	2006–2009
b. 2, f. 8	Hixon study	2000–2001
b. 2, f. 9-10	“In Their Own Words” project English	2007–2008
b. 2, f. 11	Italy-Slovenia	2001



## Topical (continued)

b. 2, f. 12	Lecture series	1991
b. 19	<p>Letters of recommendation 2015-M-065-0022 <i>13.5_floppy_disk (720 megabytes)</i></p> <p>Date for this material was provided by the creator.</p> <p>As a preservation measure, original materials may not be used. Digital access copies must be provided for use. Contact Manuscripts and Archives at <a href="mailto:beinecke.library@yale.edu">beinecke.library@yale.edu</a> to request access</p> <p>This material was imaged or captured by the Yale University Digital Accessioning Support Service (DASS) in 2017 for preservation and access. For more information on the DASS and the actions taken during its accessioning work, click here: <a href="#">Born Digital @ Yale: Digital Accessioning Support Service</a>.</p>	1987
b. 2, f. 13	<i>New York Times</i> public editor	2003–2004
b. 2, f. 14	Requests for recommendations	1991–1992
b. 20	<p>Tenure support 2015-M-065-0002 <i>15.25_floppy_disk (720 kilobytes)</i></p> <p>Date for this material was provided by the creator.</p> <p>As a preservation measure, original materials may not be used. Digital access copies must be provided for use. Contact Manuscripts and Archives at <a href="mailto:beinecke.library@yale.edu">beinecke.library@yale.edu</a> to request access.</p> <p>This material was imaged or captured by the Yale University Digital Accessioning Support Service (DASS) in 2017 for preservation and access. For more information on the DASS and the actions taken during its accessioning work, click here: <a href="#">Born Digital @ Yale: Digital Accessioning Support Service</a>.</p>	1986
b. 2, f. 15	Tropical forestry	1978

## Series II: Research materials, 1950–2006

This series comprises notes and photographs related to field research. Grant proposals and reports are also included in this series as it outlines goals of research and some findings. While there are notes clearly pertaining to specific topics such as the Sandbox projects and Hubbard Brook, the majority of the notes are located in small notebooks and small notepads that are labeled chronologically. Photographs document different research sites, the landscape, plants, and animals of different biomes, and rocks and minerals. A significant number of these photographs are 35 millimeter slides. Folders of these slides are labeled with the name listed on the original slide box; the sleeves housing the slides have further labeling of the photographs' subjects. Grant proposals and reports are mainly for the Andrew W. Mellon Foundation. There are also a few for Yale University and the University of Vermont. Materials are arranged alphabetically.

### Notes

b. 3, f. 1	General plan for phenology project	July 14, 1988
b. 3, f. 2	Hubbard Brook Research Foundation	2001
b. 3, f. 3	Hubbard Brook Research Foundation, current duties and education and outreach plan	2006
b. 3, f. 4	Hubbard Brook roundtable	October 13, 2006-October 14, 2006
b. 3, f. 5	Mount Cilley study	July 22, 1978

### Notebooks

b. 3, f. 6-10b. 4, f. 1-3	General	1970-circa 1986, undated
b. 4, f. 4	Hubbard Brook	1984–1985
b. 4, f. 5	Japan lecture	2003
b. 4, f. 6	Hardwood invasion	1950–1955
b. 4, f. 7	Notes on slides taken on various field trips	Circa 1963-1971
b. 4, f. 8	Prairie waterway in Farmington, Minnesota	1993

b. 19	List of books read by year 2015-M-065-0019 <i>13.5_floppy_disk (1.4 megabytes)</i> Circa date for this material was determined from the dates of similar or related materials.	Circa 1985
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## Notes (continued)

## Sandbox project

b. 4, f. 9	Meeting materials and notes	1992–1994
b. 4, f. 10	Research	1999–2000
b. 4, f. 11	Research on nitrogen fixation	1991
b. 5, f. 1	Research on weathering	1993–1994
b. 5, f. 2	Research on weathering with data packet	1994
b. 5, f. 3	Taylor, George H.R.	Undated
b. 5, f. 4	Technology and tools	Undated
b. 5, f. 5	Trips to Hawaii, New Zealand, and Australia	1990
b. 5, f. 6	Trip to Oregon	September 19, 1989

## Photographs

b. 5, f. 7	F. Herbert Bormann and Christine Bormann; logging; Emory- phosphorus transfer; Emory- moisture transfer; cemetery study, dye streaks; lawn sales; Australia; Waterbury	1960-1994, undated
b. 5, f. 8	Hubbard Brook soil trench	1974–1977
b. 5, f. 9	Coweeta Hydrologic Laboratory	Circa 1995
b. 5, f. 10	Gifford Woods, Moosil Zube from Bob Pierce, Hubbard Brook	Undated
b. 5, f. 11	Golf course under construction in a northern hardwood forest in Campton, New Hampshire; Powerline Brook	1997
b. 5, f. 12	Old field; trachyte, limestone, granite (Nova Scotia paper); nylon net in operation; aerial photographs (Hubbard Brook); ecology	Undated
b. 5, f. 13	Research team	1971–1987
b. 5, f. 14	Root grafts, prints and negatives	Circa 1958
b. 5, f. 15	Root graft study, selection of tress	Undated

## Slides

b. 5, f. 16	General	1985–1999
b. 6, f. 1-2	Acid rain, Sandbox, travels, forest fires	1976–1988
b. 6, f. 3-5	Alaska, grassland, desert	1960–1972
b. 7, f. 1-2	Biology, insects, erosion, 175A	1962–1997
b. 7, f. 3-4	Boreal tropical forest	1964-1978, undated
b. 7, f. 5	Branford Supply Pond	April 1996

## Photographs &gt; Slides (continued)

b. 7, f. 6b. 8, f. 1	China and Hong Kong	1985
b. 8, f. 2-3	Deciduous forest	1948-1987
b. 8, f. 4-6b. 9, f. 1	Hubbard Brook	1953-1989
b. 9, f. 2	Sandbox project, nitrogen storage and fixation	Circa 1991
b. 9, f. 3	Talks, pin cherry, cloud water; Hubbard Brook; model of ecosystem decline; ozone populus; bioscience	1984-1987
b. 9, f. 4	Supply pond	Circa 1990s
b. 9, f. 5	Unidentified plant	Undated
b. 9, f. 6	Unknown photographs and negatives	1996-1999
Grant reports and proposals		
b. 9, f. 7	General proposals	1957-1993
b. 9, f. 8-9	Budget requests to the Andrew W. Mellon Foundation	1996-1999
b. 9, f. 10-11	Cooperative agreement for studies on ecosystem processes between Yale University School of Forestry and Environmental Studies and School of Natural Resources, University of Vermont	1992-2002
b. 9, f. 12	Correspondence with the Andrew W. Mellon foundation	August 11, 1993
b. 23	Curriculum vitae and grant summary 2015-M-065-0028 <i>1 CD-RW (75.4 megabytes)</i> Date for this material was provided by the creator.  As a preservation measure, original materials may not be used. Digital access copies must be provided for use. Contact Manuscripts and Archives at <a href="mailto:beinecke.library@yale.edu">beinecke.library@yale.edu</a> to request access  This material was imaged or captured by the Yale University Digital Accessioning Support Service (DASS) in 2017 for preservation and access. For more information on the DASS and the actions taken during its accessioning work, click here: <a href="#">Born Digital @ Yale: Digital Accessioning Support Service</a> .	2007
b. 10, f. 1b. 9, f. 13	Proposal for support from the Andrew W. Mellon Foundation	1986-1994
b. 10, f. 2	Report to the Andrew W. Mellon Foundation with publications related to the Sandbox studies, 1996-1998	1998-1999
b. 10, f. 3	Proposal to the Santa Barbara County Resource Management Department	1993
b. 10, f. 4	Proposals to the United States Department of Agriculture and the Environmental Protection Agency	1993-1994
b. 10, f. 5	Proposals to Yale University	1967, 2006

**Series III: Teaching materials, 1967–2006**

This series comprises notes, outlines, syllabi and other materials for courses and lectures Bormann gave. Almost all of these courses and lectures were given at Yale University's School of Forestry and Environmental Studies. The series is arranged alphabetically.

b. 11, f. 1	Benoit-Balmori course	2001–2003
b. 19	Biomass accumulation model lecture 2015-M-065-0020 <i>13.5_floppy_disk (720 megabytes)</i> Date for this material was provided by the creator.  As a preservation measure, original materials may not be used. Digital access copies must be provided for use. Contact Manuscripts and Archives at <a href="mailto:beinecke.library@yale.edu">beinecke.library@yale.edu</a> to request access  This material was imaged or captured by the Yale University Digital Accessioning Support Service (DASS) in 2017 for preservation and access. For more information on the DASS and the actions taken during its accessioning work, click here: <a href="#">Born Digital @ Yale: Digital Accessioning Support Service</a> .	1987
	Course notes	
b. 20	Advanced ecology 2015-M-065-0004 <i>15.25_floppy_disk (720 kilobytes)</i> The date for this material was provided by the creator.  As a preservation measure, original materials may not be used. Digital access copies must be provided for use. Contact Manuscripts and Archives at <a href="mailto:beinecke.library@yale.edu">beinecke.library@yale.edu</a> to request access.  This material was imaged or captured by the Yale University Digital Accessioning Support Service (DASS) in 2017 for preservation and access. For more information on the DASS and the actions taken during its accessioning work, click here: <a href="#">Born Digital @ Yale: Digital Accessioning Support Service</a> .	1985
b. 20	Advanced ecology 2015-M-065-0007 <i>15.25_floppy_disk (720 kilobytes)</i> Date for this material was provided by the creator.  As a preservation measure, original materials may not be used. Digital access copies must be provided for use. Contact Manuscripts and Archives at <a href="mailto:beinecke.library@yale.edu">beinecke.library@yale.edu</a> to request access.  This material was imaged or captured by the Yale University Digital Accessioning Support Service (DASS) in 2017 for preservation and access. For more information on the DASS and the actions taken during its accessioning work, click here: <a href="#">Born Digital @ Yale: Digital Accessioning Support Service</a> .	1985
b. 11, f. 2	Aquatic ecology and suburbanization	2002
b. 11, f. 3-4	Patterns and processes in terrestrial ecosystems	1968–1972
b. 11, f. 5-7	Seminar in ecosystem ecology	1986–1992

## Course notes (continued)

b. 11, f. 8	Suburb hydrologic cycle	2000
b. 11, f. 9b. 12, f. 1-2	Succession	Circa 1960s
Course outlines		
b. 20	Ecosystem ecology seminar 2015-M-065-0006 <i>15.25_floppy_disk (720 kilobytes)</i> Date for this material was provided by the creator.  As a preservation measure, original materials may not be used. Digital access copies must be provided for use. Contact Manuscripts and Archives at <a href="mailto:beinecke.library@yale.edu">beinecke.library@yale.edu</a> to request access.  This material was imaged or captured by the Yale University Digital Accessioning Support Service (DASS) in 2017 for preservation and access. For more information on the DASS and the actions taken during its accessioning work, click here: <a href="#">Born Digital @ Yale: Digital Accessioning Support Service</a> .	1985
b. 12, f. 3	The home as ecosystem	1976
b. 12, f. 4	Supply pond	2000–2002
b. 19	Dissertation suggestions 2015-M-065-0021 <i>13.5_floppy_disk (720 megabytes)</i> Date for this material was provided by the creator.  As a preservation measure, original materials may not be used. Digital access copies must be provided for use. Contact Manuscripts and Archives at <a href="mailto:beinecke.library@yale.edu">beinecke.library@yale.edu</a> to request access  This material was imaged or captured by the Yale University Digital Accessioning Support Service (DASS) in 2017 for preservation and access. For more information on the DASS and the actions taken during its accessioning work, click here: <a href="#">Born Digital @ Yale: Digital Accessioning Support Service</a> .	1988
b. 12, f. 5	Ecology and ecosystems materials	1998–2006
b. 12, f. 6	Guide to human in disgression slide notes	Undated
b. 12, f. 7	Lecture ideas	Circa 1992
Lecture series on grazing		
b. 12, f. 8	General	1993–1995
b. 12, f. 9	Arid and semiarid west- grazing cost	1993-circa 1995
b. 12, f. 10	Background, planning, and sources	Circa 1993-circa 1995
b. 12, f. 11	Bibliography	1993
b. 12, f. 12	Potential lecturers	1993–1994

b. 12, f. 13	Shellfish	2004
b. 22	<p>Ecosystem study powerpoint 2015-M-065-0027 <i>1 CD-R (43.311 megabytes)</i></p> <p>Date for this material was provided by the creator.</p> <p>As a preservation measure, original materials may not be used. Digital access copies must be provided for use. Contact Manuscripts and Archives at <a href="mailto:beinecke.library@yale.edu">beinecke.library@yale.edu</a> to request access</p> <p>This material was imaged or captured by the Yale University Digital Accessioning Support Service (DASS) in 2017 for preservation and access. For more information on the DASS and the actions taken during its accessioning work, click here: <a href="#">Born Digital @ Yale: Digital Accessioning Support Service</a>.</p>	2006
b. 12, f. 14	Syllabi: pattern and process in terrestrial ecology, ecosystemology; structure and function of ecosystems	1967–1971
b. 12, f. 15	Syllabus and midterm exam, seminar in ecosystem ecology	Undated
b. 21	<p>Woodwell talk slide list 2015-M-065-0011 <i>15.25_floppy_disk (720 kilobytes)</i></p> <p>Circa date for this material was determined from the date of similar or related material.</p> <p>As a preservation measure, original materials may not be used. Digital access copies must be provided for use. Contact Manuscripts and Archives at <a href="mailto:beinecke.library@yale.edu">beinecke.library@yale.edu</a> to request access.</p> <p>This material was imaged or captured by the Yale University Digital Accessioning Support Service (DASS) in 2017 for preservation and access. For more information on the DASS and the actions taken during its accessioning work, click here: <a href="#">Born Digital @ Yale: Digital Accessioning Support Service</a>.</p>	Circa 1985

## Series IV: Speeches and writings, 1950–2009

This series comprises various speeches and writings composed by Bormann. The majority of the speeches were given to scientific and professional organizations and are related to his research at Hubbard Brook or environmentalism and ecology in general. Other speeches include award acceptance speeches, commencement speeches, and special/keynote speeches given at lectures, seminars, and symposiums. Much of the writings in this series are on general ecology topics for popular magazines and newspapers. Other works include drafts and edits of his book *Redesigning the American Lawn* and other writings on freedom lawns, testimony before legislative bodies on different environmental concerns, and a small amount of academic papers, including those that had collaborating parties. Materials are arranged alphabetically.

### General

This section contains both speeches and writings that Bormann prepared on the same topics for different venues and media outlets.

#### Global environmental debt

b. 13, f. 1	Ecomythology See also <a href="#">Global environmental debt and ecomythology</a> .	Circa 1993-circa 1994
b. 13, f. 2	References	Circa 1998-2002
b. 13, f. 3	Various versions	1990–2002
b. 13, f. 4	Home as an ecosystem	1976
b. 13, f. 5	Hubbard Brook	1985–1996

#### Speeches

b. 13, f. 6-8	General	1972–2004
b. 17	“Air Pollution Stress on Forests: Decision Making in an Uncertain Environment” (Green Chair Lecture Series) <i>1 Videocassette (VHS) 2:07:00 Duration (HH:MM:SS.mmm)</i> English As a preservation measure, original materials, as well as preservation and duplicating masters, may not be used. Digital access copies must be provided for use. Contact Manuscripts and Archives at <a href="mailto:beinecke.library@yale.edu">beinecke.library@yale.edu</a> to request access.  A copy of this material is available in digital form from Manuscripts and Archives.	December 2, 1987
b. 13, f. 9	Allegheny College	1992
b. 13, f. 10	American lawn, Sarah Lawrence College	February 16, 1995
b. 13, f. 11	Award acceptances  Blue Planet Award	1993–1994
b. 13, f. 12	Introductory remarks	2003
b. 13, f. 13	Prize acceptance	2003



## Speeches &gt; Blue Planet Award (continued)

b. 13, f. 14	Commemorative lecture	2003
b. 13, f. 15	Connecticut Historic Trust Conference	Undated
b. 13, f. 16	Duke University	1988
b. 13, f. 17	"The Ecology of Tropical Forests Ecosystems English	2000
b. 13, f. 18	Environmental science and landscape policy; ecosystem regulation	1998
b. 13, f. 19	50th anniversary of the Hubbard Brook Experimental Forest	2005
b. 13, f. 20	Hubbard Brook	Circa 1988
b. 18	"Hubbard Brook Experimental Forest" <i>1 Audiocassette</i> English  Original audiovisual materials, as well as preservation and duplicating masters, may not be played. Researchers must consult use copies, or if none exist must pay for a use copy, which is retained by the repository. Researchers wishing to obtain an additional copy of non-commercially produced items for their personal use should consult the ordering reproductions information on the Manuscripts and Archives web site.	December 1983
b. 13, f. 21	Lectures, seminars, and symposiums	1984–1999
b. 13, f. 22	National Convention of Congregational Churches	Undated
b. 13, f. 23	Nature Conservancy	May 1969
b. 13, f. 24	New Hampshire Science Center talk	2004
b. 13, f. 25	Nuclear war	1962
b. 13, f. 26	"The Origin of the Hubbard Brook Ecosystem Study" English	July 2004
b. 13, f. 27	"The Origin of the Small Watershed Technique" English	1997–2003
b. 14, f. 1	Personal speeches	1993–2008
b. 14, f. 2	Recovery and future of the northeastern forest	1996
b. 14, f. 3	Santa Barbara Botanic Garden talk	2005–2006
b. 14, f. 4	Slide for Taiwan	1996
b. 14, f. 5	Suburbanization and the hydrologic cycle	2002
b. 14, f. 6	Talk on protection of nature	Undated
b. 14, f. 7	University of Vermont commencement address	2005
b. 14, f. 8	University of Vermont lectures	2000, undated
b. 14, f. 9	"Yale Reports" English	April 12, 1970

## Writings

b. 14, f. 10-13	General	1990–2005
b. 14, f. 14	Administrative outlines and reports	Undated
b. 14, f. 15	Assisi paper, "The Global Environmental Deficit- a Useful Concept for Earth Keepers"	1992–1994
b. 14, f. 16	Biomass scatter plots for unknown paper	1991
b. 14, f. 17-18	Bormann's autobiography	2002–2006
b. 14, f. 19	Bormann's biographical notes	August 2002
b. 14, f. 20	Brazil report	November 9, 1986-November 19, 1986
b. 14, f. 21	Brown, Lester	1981–1982
b. 14, f. 22	"Clear-Cutting, Experiment and Practice" English	Circa 1990
b. 15, f. 1b. 14, f. 23	Collaborations with researchers from the University of Vermont	1992–1993
b. 15, f. 2	Conservation of ecosystems and conservation of fossil fuels	Undated
b. 15, f. 3	"Confronting the Environmental Debt" English	1997–2004
b. 15, f. 4	"Confronting the Global Environmental Deficit" English	1993–1994
b. 15, f. 5	"Confronting the Global Environmental Deficit," references English	1993
b. 15, f. 6	Drafting notes	Undated
b. 15, f. 7	Drafts and outlines	Undated
b. 15, f. 8	Earth Day	2007-2008, undated
b. 15, f. 9	"The Ecological Choice- Harmony or Chaos" English	Undated
b. 15, f. 10	Ecological services drafting	2000
b. 15, f. 11	Edits and critiques	2003–2004
b. 15, f. 12	Environment and political policy	2006
<i>Freedom Lawns</i>		
b. 15, f. 13	Meeting	November 4, 1998

## Writings &gt; Freedom Lawns (continued)

b. 15, f. 14	Notes by Sally Atkins	December 21, 1998
b. 15, f. 15	Research questionnaires	1998
	Gas prices	
b. 15, f. 16	"Gas Prices and Land Abandonment" English	April 2006
b. 15, f. 17-18	Gas prices and landscape	2005
b. 15, f. 19	Global environmental debt and ecomythology See also <a href="#">Ecomythology</a> .	1995-1996
b. 15, f. 20	Golf courses	1996-1998
b. 15, f. 21	Golf courses, correspondence	November 19, 1998
b. 15, f. 22	Green governance and environmental debt	2002-2003
b. 15, f. 23	History of the School of Forestry and Environmental Studies	2009
	Hubbard Brook	
b. 15, f. 24	General	1997-2004
b. 15, f. 25	"Hubbard Brook Marks 25 Years of Visionary Ecosystem Research" English	Undated
b. 15, f. 26	Hubbard Brook poster	2006
b. 15, f. 27	Hydrologic studies	2004
b. 15, f. 28	Intelligent design	2005
b. 15, f. 29	"Investigating Dynamic Functions and Complex Legacies in Watershed Ecosystems" English	2003
b. 15, f. 30	Johnson, Chris, et al. "Whole Tree Harvesting Effects on Soil Chemical Properties in a Northern Hardwood Forest"	Undated
b. 16, f. 1	"Lesson from Hubbard Brook" English	Circa 1984
b. 16, f. 2	"Losing Contact with Nature" English	2008
b. 16, f. 3	"Man's Mastery Over Nature" draft English	Undated
b. 16, f. 4	"The Marriage of Ecology and Agriculture: an Ecologist's Perspective" English	1989
b. 16, f. 5	New York Botanical Garden Forest	August 11, 1997
b. 16, f. 6	Nitrogen	2001

## Writings (continued)

b. 16, f. 7	"Origin of Small Watershed Technique for the Study of Ecosystems" English	1997
b. 16, f. 8	Outline for mineral weathering papers	September 10, 1993
b. 16, f. 9	Peopling of the Americas; intertidal zone	2004
b. 16, f. 10	Personal writings	2007-2008, undated
	Pin Cherry	
b. 16, f. 11-12	Editing comments and revisions	1999-2003
b. 16, f. 13	Fahey manuscript	2002
b. 16, f. 14	Outline and drafts	1994-2001
b. 16, f. 15	Potential publications	1997-2005
b. 20	Plants, animals, and their local environments 2015-M-065-0001 <i>15.25_floppy_disk (720 kilobytes)</i> Date for this material was determined from similar material in the collection.  As a preservation measure, original materials may not be used. Digital access copies must be provided for use. Contact Manuscripts and Archives at <a href="mailto:beinecke.library@yale.edu">beinecke.library@yale.edu</a> to request access.  This material was imaged or captured by the Yale University Digital Accessioning Support Service (DASS) in 2017 for preservation and access. For more information on the DASS and the actions taken during its accessioning work, click here: <a href="#">Born Digital @ Yale: Digital Accessioning Support Service</a> .	circa 1985
b. 16, f. 16	Recent work on Branford Supply Pond	2003
b. 16, f. 17	Red pine	2003
	<i>Redesigning the American Lawn</i>	
b. 16, f. 18	Edits	2002
b. 16, f. 19	Second edition	1998
b. 16, f. 20	Redundancy and stability of ecosystems	1992
b. 16, f. 21	"Respect for Nature" English	2000-2001
b. 16, f. 22	Scientific gardening inventions	1985
b. 16, f. 23	Statements before legislative bodies	1966-1996
b. 16, f. 24	<i>The Statistical Efficiency of Plot Size and Shape in Forest Ecology</i> (MA Thesis)	1950

## Writings (continued)

b. 16, f. 25	"Subtraction by Multiplication: Population, Technology, and the Diminished Man." English	Circa 1969-1971
b. 16, f. 26	Suburban land development	July 2002
b. 16, f. 27	Suburban land development and the hydrologic cycle	1999-2002
b. 16, f. 28	Supply Pond	1998-2006
b. 16, f. 29	Tree poster	2006
b. 16, f. 30	Understanding how nature works	2007-2008
b. 16, f. 31	University of Vermont	2002
b. 16, f. 32	Untitled foreword	Undated
b. 16, f. 33	"On the Whole Being Greater Than the Sum of its Parts" English	2005
b. 16, f. 34	Work with Gene E. Likens	1995-2000
b. 19	Zoning of a National Forest 2015-M-065-0025 <i>13.5_floppy_disk (720 kilobytes)</i> Date for this material was provided by the creator.  As a preservation measure, original materials may not be used. Digital access copies must be provided for use. Contact Manuscripts and Archives at <a href="mailto:beinecke.library@yale.edu">beinecke.library@yale.edu</a> to request access.  This material was imaged or captured by the Yale University Digital Accessioning Support Service (DASS) in 2017 for preservation and access. For more information on the DASS and the actions taken during its accessioning work, click here: <a href="#">Born Digital @ Yale: Digital Accessioning Support Service</a> .	1988

**Series V: Born digital files, 1984–2006**

This series consists of seventeen 5.25 inch floppy disks, nine 3.5 inch floppy disks, one CD-R, and one CD-RW. Labels on the disks suggest that the contents include text of speeches and writings, correspondence such as student recommendations, teaching materials, Bormann's curriculum vitae and other professional biographical materials, and backup/boot files for different software and operating systems.

Closed until processed.

b. 21	Herb's Wordstar Drive a: Lettrix 2015-M-065-0010 <i>15.25_floppy_disk</i>	As a preservation measure, original materials may not be used. Digital access copies must be provided for use. Contact Manuscripts and Archives at <a href="mailto:beinecke.library@yale.edu">beinecke.library@yale.edu</a> to request access
b. 21	Herb's Wordstar backup 2015-M-065-0012 <i>15.25_floppy_disk</i>	As a preservation measure, original materials may not be used. Digital access copies must be provided for use. Contact Manuscripts and Archives at <a href="mailto:beinecke.library@yale.edu">beinecke.library@yale.edu</a> to request access
b. 21	Card filer 2015-M-065-0013 <i>15.25_floppy_disk</i>	As a preservation measure, original materials may not be used. Digital access copies must be provided for use. Contact Manuscripts and Archives at <a href="mailto:beinecke.library@yale.edu">beinecke.library@yale.edu</a> to request access
b. 21	French 2015-M-065-0014 <i>15.25_floppy_disk</i>	As a preservation measure, original materials may not be used. Digital access copies must be provided for use. Contact Manuscripts and Archives at <a href="mailto:beinecke.library@yale.edu">beinecke.library@yale.edu</a> to request access
b. 21	DOS Back up 2015-M-065-0015 <i>15.25_floppy_disk</i>	As a preservation measure, original materials may not be used. Digital access copies must be provided for use. Contact Manuscripts and Archives at <a href="mailto:beinecke.library@yale.edu">beinecke.library@yale.edu</a> to request access
b. 21	Card file, Wordstar Backup copy 2015-M-065-0016 <i>15.25_floppy_disk</i>	As a preservation measure, original materials may not be used. Digital access copies must be provided for use. Contact Manuscripts and Archives at <a href="mailto:beinecke.library@yale.edu">beinecke.library@yale.edu</a> to request access
b. 21	LETTRIX source Put in B: at start up May 85 2015-M-065-0017 <i>15.25_floppy_disk</i>	As a preservation measure, original materials may not be used. Digital access copies must be provided for use. Contact Manuscripts and Archives at <a href="mailto:beinecke.library@yale.edu">beinecke.library@yale.edu</a> to request access
b. 19	1987 save Get A:> A:> edit1987SAVE 2015-M-065-0018 <i>13.5_floppy_disk</i>	

- b. 19            \1984 save 42 files \1984-1985 59 files 1984 Edit dir Press X edit 1984SAVE edit 1984-1985  
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- b. 19            Herb's Boot Disk Copy of personnel dir  
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*13.5\_floppy\_disk*  
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**Accession 2020-M-0024: Additional Material, 1953–1990**

The accession contains F. Herbert Bormann's research files on a variety of forestry topics, research data, professional correspondence with colleagues, writings (including unpublished articles), and grant proposals and reports mostly relating to the Hubbard Brook Ecosystem Study. Also included are files relating to Bormann's teaching career at Yale University.

Yale University related files are restricted until 2055 as established by Yale Corporation regulations. Student records are restricted until 2095 as established by Yale Corporation regulations. <http://web.library.yale.edu/mssa/collections/research-use-of-yale-university-archives>.

The accession is arranged in seven groupings: Research files; Correspondence: Yale and teaching files; Grant proposals and reports: Writings: Hubbard Brook Ecosystem Study: and Restricted files.

Research files		
b. 1, f. 1-4	General	Circa 1960s–1980s
b. 1, f. 5	Aber, life history	Circa 1970s
b. 1, f. 6	Acid rain publications	Circa 1970s
b. 1, f. 7	Alaska chromosome data	1953–1954
b. 1, f. 8	Bibliography of recent Russian literature on the ecology of the Soviet Union	1964
b. 1, f. 9	Bibliography of the development of plant sociology	Circa 1950s
b. 1, f. 10	Biomass of old age stands for Robert Whittaker paper	1973
b. 1, f. 10-11	Bormann, Herbert, raw research data	Circa 1960s–1970s
b. 2, f. 1-4	Bormann, Herbert, raw research data	Circa 1960s–1970s
b. 2, f. 5	Brookhaven outline and notes	1963
b. 2, f. 6	Brosimum research proposals	1979–1980
b. 2, f. 7	Calculation of increase in soil moisture	Circa 1970s
b. 2, f. 8	Calculation on organic matter and nitrogen values	1976
b. 2, f. 9-10	Cloud moisture project	1984
b. 3, f. 1	Connecticut Citizen Research Group	1974–1975
b. 3, f. 2	Connecticut organizations	1960–1989
b. 3, f. 3-4	Dead wood data	1976
b. 3, f. 5	Effect of drying on germination, summary of data	1953
b. 3, f. 6	Field notes	1957–1958
b. 3, f. 7	Frequency plots	1976



## Research files (continued)

## Fuelwood

b. 3, f. 8	Earth to hearth main copy	1987
b. 3, f. 9-10	References for charcoal wood model	1987
b. 4, f. 1	References for charcoal wood model	1987
b. 4, f. 2	Wood and charcoal model versions	1987
b. 4, f. 3	Geologic weathering	1976
b. 4, f. 4	Grassland range and forest influence	1963
b. 4, f. 5	Greenhouse data	1954-1955
b. 4, f. 6	Holes in for indeterminate growth, even-aged stand	1974
b. 4, f. 7	International Environmental Programs Committee	1981
b. 4, f. 8-9	JABOWA, live and dead biomass, nutrient levels	1975
b. 4, f. 10	Juvenile data, inactive	Circa 1950s
b. 4, f. 11	Light data, active	Circa 1950s
b. 4, f. 12	Light-photosynthesis interaction	Circa 1960s
b. 4, f. 13	Living biomass and forest floor accumulation	1974
b. 4, f. 14	Loblolly pine research and data	1960-1969
b. 5, f. 1	Loblolly pine research and data	1960-1969
b. 5, f. 2	Loblolly pine reversion in growth experiments	Circa 1960s
b. 5, f. 3	Long Island Sound	1971
b. 5, f. 4	Lycopodium rings	Circa 1960s
b. 5, f. 5	Marine Biology Laboratory	1972
b. 5, f. 6	Mineral soil behavior	Undated
b. 5, f. 7	Murphy study	1976
b. 5, f. 8	Notebooks	1955-1958
b. 5, f. 9	Oak Ridge course, notebooks, and data	Circa 1960s
b. 5, f. 10	Observations on patches and seedling tolerance	1975
b. 5, f. 11	Particulate matter data	1974
b. 5, f. 12	Phenotypic adaptability	Circa 1960s
b. 6, f. 1	Phloem differentiation in <i>Pinus strobus</i>	1967
b. 6, f. 2	Pierce-Bormann removal of timber	Undated

## Research files (continued)

b. 6, f. 3	Pierce-Martin forest floor losses	Undated
b. 6, f. 4	Plant-soil relations	Circa 1950s
b. 6, f. 5	Precipitation and runoff data	1965
b. 6, f. 6	Preliminary results on study of the effects of acid rain on Hubbard Brook soils	1972
b. 6, f. 7	Proleptic shoot study	1966
b. 6, f. 8	Research references	Circa 1970s
b. 6, f. 9	Root graft bibliography	1962
b. 6, f. 10	Roots of forest trees	1949
b. 6, f. 11	Sand hills data	Circa 1950s
b. 6, f. 12	Scientific Committee on Problems of the Environment (SCOPE)	1977
b. 6, f. 13-14	Sleepers River Project	1978-1980
b. 6, f. 15	Soil data	Circa 1970s
b. 6, f. 16	Steady state research and clippings	1970
b. 6, f. 17	Summary of particulate matter in ponding basin	Undated
b. 6, f. 18	Summary of phosphorus cycle	1974
b. 6, f. 19	Summer projects	1975
b. 7, f. 1	Sweetgum data, photosynthesis	1958
b. 7, f. 2	Sweetgum greenhouse experiments	1958
b. 7, f. 3	Thoughts on forest utilization, steady state	Undated
b. 7, f. 4	Thoughts on stability	1976
b. 7, f. 5	Transpiration	1974
b. 7, f. 6	Tree physiology	1956
b. 7, f. 7	United States National Man and the Biosphere Committee research projects	1080-1981
b. 7, f. 8	W-2 input-output, recovery as of June 1975	1975
b. 7, f. 9	W-4 growth before and after cutting	Circa 1970s
b. 7, f. 10-11	W-4 phytosociology	1971-1972
b. 7, f. 12	W-4 species data	Undated
b. 7, f. 13	W-4, Tim Wood data	1976
b. 7, f. 14	Woodwell, George M., ecosystems center	1981

## Correspondence

## Correspondence (continued)

b. 8, f. 1-3	Chronological	1984-1988
b. 8, f. 4	A-D	1960-1989
b. 8, f. 5	E-G	1960-1989
b. 8, f. 6	H-L	1960-1989
b. 8, f. 7	M-P	1960-1989
b. 9, f. 1	R-T	1960-1989
b. 9, f. 2	W-Y	1960-1989
b. 9, f. 3	Army Corps of Engineers	1971
b. 9, f. 4	Asia Society	1973
b. 9, f. 5	Binstock, David	1981
b. 9, f. 6	Bolin, Bert	1980-1981
b. 9, f. 7	Bormann, Bernard Thomas	1985
b. 9, f. 8	Brewster, Kingman	1955-1977
b. 9, f. 9	Bruck, Robert I.	Circa 1970s
b. 9, f. 10	Buell, Murray	1953-1972
b. 9, f. 11	Cornell University	1981-1982
b. 9, f. 12	Day, Lincoln	1972
b. 9, f. 13	Dunn, Barbara	1971-1972
b. 9, f. 14	Fire Island	1966-1968
b. 9, f. 15	Gordon, John	1983
b. 9, f. 16	Hallett, Ashton	1981-1982
b. 9, f. 17	Hardy, Ernest	1982-1983
b. 9, f. 18	Hughes, Jeffrey	1985
b. 9, f. 19	India trip	1971
b. 9, f. 20	Judd, Peter H.	1970
b. 9, f. 21	Leone, Ida A.	1986
b. 9, f. 22	Marek, George	1969-1979
b. 9, f. 23	Mooney, Harold	1984
b. 9, f. 24	Moor, William G., Environmental Action Fund	1971
b. 9, f. 25	National Audubon Society	1968

## Correspondence (continued)

b. 9, f. 26	Parrotta, John	1985
b. 9, f. 27	Princeton University	1984
b. 10, f. 1	Ramakrishnan, P.S.	1975–1982
b. 10, f. 2	Richardson, Ralph, The Rockefeller Foundation	1975–1979
b. 10, f. 3	Rieser, Leonard	1963–1964
b. 10, f. 4	Ripley, S. Dillon	1971
b. 10, f. 5	Risser, Paul G.	1976
b. 10, f. 6	Shaw, Joy	1975
b. 10, f. 7	Timmer, Vic	1979–1980
b. 10, f. 8	University of Virginia	1980
b. 10, f. 9	University Press of New England	1980–1981
b. 10, f. 10	White, Henry	1973
b. 10, f. 11	Whittaker, Bob	1972
b. 10, f. 12	Worrell, Albert C.	1982–1983
b. 10, f. 13	Young, George	1984–1987
b. 10, f. 14	Young, Harold E.	1982
Yale and teaching files		
b. 11, f. 1	Berry, Joseph K., and Clark S. Binkley	1982–1984
b. 11, f. 2	Bormann, Herbert F., curriculum vitae	Circa 1980s
b. 11, f. 3	Branford, Connecticut project	1968–1969
b. 11, f. 4	The case for environmental education	Circa 1974
b. 11, f. 5	Children's workbook	1971
Committee files		
b. 11, f. 6	Brainstorming committee	1986
b. 11, f. 7	Committee assignments	1966–1984
b. 11, f. 8	Congressional Advisory Committee	1968–1969
b. 11, f. 9	Curriculum committee	1982–1984
b. 11, f. 10-12	Development committee	1980–1989
b. 12, f. 1	Ecology committee	1966
b. 12, f. 2	Smithsonian advisory committee	1976

## Yale and teaching files &gt; Committee files (continued)

b. 12, f. 3	Tropical forestry committee	1982-1983
Course files		
b. 12, f. 4	General	1982-1988
b. 12, f. 5	Botany courses	1960-1969
b. 12, f. 6	Course outlines	1967-1982
b. 12, f. 7	Course proposals	1966-1969
b. 13, f. 1	Course schedule	1982-1983
b. 13, f. 2	Culture and Behavior 30	1970-1971
b. 13, f. 3	The Ecology of Man	Circa 1971
b. 13, f. 4	Environmental activism workshop, suggested assignments	Circa 1970s
b. 13, f. 5	Field trips to Alaska, North Carolina, and Georgia	1953-1954
b. 13, f. 6	Forestry 126b	1965
Forestry 179b		
b. 13, f. 7-9	General	1971
b. 14, f. 1	Articles on environmental issues	1971
b. 14, f. 2	Bibliographies	1971
b. 14, f. 3	Book fair	1971
b. 14, f. 4	Coordination of course	1971
b. 14, f. 5	Corespondence	1971
b. 14, f. 6	Final evaluation	1971
b. 14, f. 7	Funds	1970
b. 14, f. 8-9	Handouts	1971
b. 14, f. 10	Questionnaires	1971
b. 14, f. 11	Resource files for classroom use	1971
b. 14, f. 12	Summary of seminar	1972
b. 15, f. 1	Forestry 543b	1985
b. 15, f. 2-5	Forestry 571b	1985-1989
b. 15, f. 6	Issues in the Environmental Crisis, seminar	1968-1969
b. 15, f. 7	Wave Hill/Fordham University environmental education program	1970-1971
b. 16, f. 1	Drafts and note to teachers	Circa 1971

## Yale and teaching files (continued)

b. 16, f. 2	Doolittle, W.T.	1972
b. 16, f. 3	Ecosystems center at Woods Hole	1974
b. 16, f. 4	Financial files	Circa 1980s
b. 17, f. 1	Ford Foundation conference	1966–1967
b. 17, f. 2	Foster, Charles E. W.	1976–1978
b. 17, f. 3	General Motors/Ford	1985
b. 17, f. 4	Georgia trip, landscape ecology symposium	1986
b. 17, f. 5	Giamatti, A. Bartlett	1980–1981
b. 17, f. 6	Graduate student profile and questionnaire results	1974
b. 17, f. 7	Handbooks	Circa 1970s– 1980s
b. 17, f. 8	Institute for Environmental Studies	1984
b. 17, f. 9	The Land Institute symposium	1989
b. 17, f. 10	Land use apprenticeship	1969–1972
b. 17, f. 11-12	“The Limits of Growth” speaker series	1972
b. 18, f. 1-3	“The Limits of Growth” speaker series	1972
b. 18, f. 4	Memoranduma	1969–1982
b. 18, f. 5	National Conference on Citizens Rights in Broadcasting	1970
b. 18, f. 6	National Commission on Water Quality	1974
b. 18, f. 7	Newsletters	1971
b. 18, f. 8	North Atlantic Treaty Organization (NATO) conference, Istanbul	1972–1973
b. 18, f. 9	Northeastern Industrial Developers Association	1970–1973
b. 18, f. 10	School development plan	1983–1984
b. 18, f. 11	School executives conference	1970
b. 18, f. 12	Smith, W.H	1982–1984
b. 18, f. 13	Speakers bureau	1971
b. 18, f. 14	Strip mining	1971
b. 19, f. 1	Talcott Mountain Science Center	1971
b. 19, f. 2	Teachers manual	1970
b. 19, f. 3	United States Environmental Protection Agency (EPA)	1974–1975
b. 19, f. 4	World Wildlife Fund	1974–1977

## Grant proposals and reports

## Andrew W. Mellon Foundation

b. 20, f. 1-5	General Mellon Fund grants	1980–1989
b. 21, f. 1	General Mellon Fund grants	1980–1989
b. 21, f. 2	Amthor, Jeff	1987
b. 21, f. 3	Armstrong-Colaccino, Ann	1989
b. 21, f. 4	Appalachian Mountain Club research agreement	1986–1987
b. 21, f. 5	Berlyn, G.P., and J. Royte	1987–1988
b. 21, f. 6	Bormann, F. H.	1988
b. 21, f. 7	Boyce, Rick	1987–1988
b. 21, f. 8	Castilleja, Guillermo	1987–1988
b. 21, f. 9	Christ, Martin	1988
b. 21, f. 10-13	Cloud water and moisture project	1981–1988
b. 22, f. 1-3	Cloud water and moisture project	1981–1988
b. 22, f. 4	Coleman, Jim	1984–1986
b. 22, f. 5	Gill, Dave	1989
b. 22, f. 6	Hamburg, Steven	1986
b. 22, f. 7	Hammond, Elysa	1988
b. 22, f. 8	Hedin, Lars	1987
b. 22, f. 9	Joyce, Cynthia	1988
b. 22, f. 10	Kim, Eunshik	1987
b. 23, f. 1	Likens, Gene	1987–1988
b. 23, f. 2	Nicholas, Sara	1989
b. 23, f. 3	Oppenheimer, Michael	1986
b. 23, f. 4-5	Research and progress reports	1983–1986
b. 23, f. 6	Wang, Deane	1986–1990
b. 23, f. 7	Wargo, John	1986
b. 23, f. 8	Weathers, Kathy	1988
b. 24, f. 1-2	Connecticut Research Commission	1968–1974
b. 24, f. 3	Cornell University	1971–1972

## Grant proposals and reports (continued)

b. 24, f. 4	Forest Service cooperative agreement	1963–1968
b. 24, f. 5	Hubbard Brook funds and budget	1969–1972
b. 24, f. 6-7	Mary Flagler Cary Charitable Trust	1982–1986
b. 24, f. 8	Merck Foundation	1986–1988
National Science Foundation		
b. 24, f. 9	Award of contract	1985
b. 24, f. 10	Bowden, W. B., subcontract	1987
b. 24, f. 11-16	Correspondence	1968–1986
b. 25, f. 1	Hubbard Brook grant, budget, correspondence, and reports	1986
b. 25, f. 2	Hubbard Brook site visit and review	1973
Proposals and reports		
b. 25, f. 3-8	1963–1971	1963–1971
b. 26, f. 1-6	1971–1974	1971–1974
b. 27, f. 1-4	1974–1978	1974–1978
b. 28, f. 1-6	1980–1982	1980–1982
b. 29, f. 1-7	1983–1984	1983–1984
b. 30, f. 1-7	1984–1986	1984–1986
b. 31, f. 1-5	1986–1989	1986–1989
b. 31, f. 6	Uhl-Nepstad grant	1986
b. 31, f. 7	Public Health Service	1962
b. 31, f. 8	United States Department of the Interior, National Park Service, Fire Island grant	1968–1970
Writings		
b. 32, f. 1	General	Circa 1950s–1960s
b. 32, f. 2	Acid rain and ecosystem nutrient cycles	Circa 1970s
b. 32, f. 3	Biological and chemical control of phosphorus cycling in a northern hardwood forest	1983
b. 32, f. 4	Changes in the growth pattern of white pine trees undergoing suppression	1965
b. 32, f. 5	Chromosome studies of plants from the arctic slope of Alaska	1955
b. 32, f. 6	A disjunct stand of hemlock in the Georgia Piedmont	1958



## Writings (continued)

b. 32, f. 7	Ecological implications of changes in the photosynthetic response of <i>Pinus Taeda</i> seedlings during ontogeny	1956
b. 32, f. 8	The ecosystem concept, the necessary basis for land use	Circa 1970s
b. 32, f. 9	Ecosystem talk notes	Circa 1970s
b. 32, f. 10	The forest ecosystem: perturbation and recovery Includes draft with comments by E.L. Stone	1972
b. 32, f. 11	Growth strategy in tulip poplar	1980
b. 32, f. 12	A hypothesis concerning radiosensitivity	1964
b. 32, f. 13	Individuality in forest trees	1960
b. 32, f. 14	Intraspecific root grafting and the survival of eastern white pine stumps	1961
b. 32, f. 15	Landscape ecology and air pollution	1986
b. 32, f. 16	Landscape ecology symposium, University of Georgia	1985
b. 32, f. 17	Mathematical analysis of decision problems in ecology	1973
b. 32, f. 18	Measurements of tree ring growth with dial-gage dendrometers and vernier tree ring bands	1962
b. 32, f. 19	Moisture transfer between plants through intertwined root systems	1957
b. 32, f. 20	Natural root grafts	1966
b. 32, f. 21	Nutrient regulation in a headwater stream: sediments as a sink	Circa 1970s
b. 32, f. 22	The occurrence of natural root grafting in eastern white pine and its ecological implications	1959
b. 32, f. 23	Old-age stand of hemlock-northern hardwood forest in central Vermont	1964
b. 32, f. 24	Ontogenetic relationships of the primary leaf of <i>Pinus taeda</i> L. and <i>P. echinata</i> mill	1963
b. 32, f. 25	Percentage light readings, their intensity-duration aspects, and ecology	1956
b. 32, f. 26	Phenotypic variation in <i>abies balsamea</i> in response to altitudinal and geographic gradients	1963
b. 32, f. 27	The primary leaf as an indicator of physiologic condition in short leaf pine	1955
b. 32, f. 28	The relationships of ontogenetic development	1958
b. 32, f. 29	The role of nature in the urbanized landscape	1973
b. 32, f. 30	The structure, function, and ecological significance of root grafts in <i>Pinus strobus</i> L.	1966
b. 32, f. 31	A study of intra-specific root grafts in white pine	1961
b. 33, f. 1	Testimony on H.R. 6750, United States Senate	1969

## Writings (continued)

b. 33, f. 2	Translocation of silvieides through root grafts	1960
b. 33, f. 3	Unlimited growth: growing, growing, gone	1972-1973
b. 33, f. 4	The vegetable-irrigator	1986
b. 33, f. 5	A watershed approach to problems of nutrient cycling in forest ecosystems	1966
b. 33, f. 6	Wilderness society seminar	1985
Hubbard Brook Ecosystem Study		
b. 33, f. 7	Administration	1985-1986
b. 33, f. 8	Air pollution, acid rain distribution	1982
b. 33, f. 9	Aluminum conference	1983
b. 33, f. 10-11	Annual meeting	1971-1989
b. 33, f. 12	Articles	Circa 1970s
b. 33, f. 13	Associate project coordinator job description	Undated
b. 33, f. 14	Budgets	1982-1983
b. 33, f. 15	A checklist of organisms for the Hubbard Brook ecosystem	1971
b. 33, f. 16	FORAST project	1982
b. 34, f. 1	Forest floor and soil trench	1977-1978
b. 34, f. 2	Hedin, Lars, response to article by Alan Katzenstein	1985
b. 34, f. 3	Hubbard Brook research foundation	1983
b. 34, f. 4	Meteorological station	1983
b. 34, f. 5-7	Mirror Lake book	1981
b. 34, b. 8	Mirror Lake property	1981-1982
b. 34, f. 9-10	Munn, Ted, chemical study	1982-1983
b. 35, f. 1	Orographic rain	1982
b. 35, f. 2	Past housing	1982-1988
b. 35, f. 3	Peer review of Hubbard Brook project	1975-1981
b. 35, f. 4	Plant defenses and resources availability	1986
b. 35, f. 5-8	Pleasant view farm administrative	1983
b. 35, f. 9	Prep for site visit by the National Science Foundation	1973
b. 35, f. 10	Progress report 1985	1984-1985
Publications		

## Hubbard Brook Ecosystem Study &gt; Publications (continued)

b. 36, f. 1	Abstracts	1966–1973
b. 36, f. 2	Bibliographies and correspondence	1969–1988
b. 36, f. 3-6	Drafts and unpublished papers	Circa 1960s–1980s
b. 37, f. 1-5	Drafts and unpublished papers	Circa 1960s–1980s
b. 38, f. 1-3	Drafts and unpublished papers	Circa 1960s–1980s
b. 39, f. 1-2	Reports	1982–1983
b. 39, f. 3	Scientific Advisory Committee, items to be considered	1983–1988
b. 39, f. 4	Significance of Hubbard Brook to collaborative research workers	1973
<p>Restricted files</p> <p>Restricted files contain information on Yale University faculty salaries and hiring practices, and student grades and course work.</p> <p>Yale University related files are restricted until 2055 as established by Yale Corporation regulations. Student records are restricted until 2095 as established by Yale Corporation regulations. <a href="http://web.library.yale.edu/mssa/collections/research-use-of-yale-university-archives">http://web.library.yale.edu/mssa/collections/research-use-of-yale-university-archives</a>.</p>		
b. 40, f. 1	Awards winners and Award Committee files Yale University administrative files are restricted until 2055 as established by Yale Corporation regulations. <a href="https://web.library.yale.edu/mssa/collections/research-use-of-yale-university-archives">https://web.library.yale.edu/mssa/collections/research-use-of-yale-university-archives</a>	1974–1975
b. 40, f. 2-9	Course files Yale University student files are restricted until 2095 as established by Yale Corporation regulations. <a href="https://web.library.yale.edu/mssa/collections/research-use-of-yale-university-archives">https://web.library.yale.edu/mssa/collections/research-use-of-yale-university-archives</a>	1970–1988
b. 41, f. 1	Faculty meeting notes Yale University administrative files are restricted until 2055 as established by Yale Corporation regulations. <a href="https://web.library.yale.edu/mssa/collections/research-use-of-yale-university-archives">https://web.library.yale.edu/mssa/collections/research-use-of-yale-university-archives</a>	1982–1983
b. 41, f. 2	Faculty support file and budgets Yale University administrative files are restricted until 2055 as established by Yale Corporation regulations. <a href="https://web.library.yale.edu/mssa/collections/research-use-of-yale-university-archives">https://web.library.yale.edu/mssa/collections/research-use-of-yale-university-archives</a>	1985–1986
b. 41, f. 3-9	Graduate student files Yale University student files are restricted until 2095 as established by Yale Corporation regulations. <a href="https://web.library.yale.edu/mssa/collections/research-use-of-yale-university-archives">https://web.library.yale.edu/mssa/collections/research-use-of-yale-university-archives</a>	1960–1989
b. 42, f. 1-7	Graduate student files Yale University student files are restricted until 2095 as established by Yale Corporation regulations. <a href="https://web.library.yale.edu/mssa/collections/research-use-of-yale-university-archives">https://web.library.yale.edu/mssa/collections/research-use-of-yale-university-archives</a>	1960–1989

## Restricted files (continued)

b. 43, f. 1-7	Graduate student files Yale University student files are restricted until 2095 as established by Yale Corporation regulations. <a href="https://web.library.yale.edu/mssa/collections/research-use-of-yale-university-archives">https://web.library.yale.edu/mssa/collections/research-use-of-yale-university-archives</a>	1960–1989
b. 44, f. 1-10	Graduate student files Yale University student files are restricted until 2095 as established by Yale Corporation regulations. <a href="https://web.library.yale.edu/mssa/collections/research-use-of-yale-university-archives">https://web.library.yale.edu/mssa/collections/research-use-of-yale-university-archives</a>	1960–1989
b. 45, f. 1-7	Graduate student files Yale University student files are restricted until 2095 as established by Yale Corporation regulations. <a href="https://web.library.yale.edu/mssa/collections/research-use-of-yale-university-archives">https://web.library.yale.edu/mssa/collections/research-use-of-yale-university-archives</a>	1960–1989
b. 46, f. 1-5	Graduate student files Yale University student files are restricted until 2095 as established by Yale Corporation regulations. <a href="https://web.library.yale.edu/mssa/collections/research-use-of-yale-university-archives">https://web.library.yale.edu/mssa/collections/research-use-of-yale-university-archives</a>	1960–1989
b. 47, f. 1-4	Graduate student files Yale University student files are restricted until 2095 as established by Yale Corporation regulations. <a href="https://web.library.yale.edu/mssa/collections/research-use-of-yale-university-archives">https://web.library.yale.edu/mssa/collections/research-use-of-yale-university-archives</a>	1960–1989
b. 48, f. 1	Hubbard Brook hourly and student workers, expenses, and budget Yale University student files are restricted until 2095 as established by Yale Corporation regulations. <a href="https://web.library.yale.edu/mssa/collections/research-use-of-yale-university-archives">https://web.library.yale.edu/mssa/collections/research-use-of-yale-university-archives</a>	1968–1974
b. 48, f. 2	Letters of recommendation Yale University administrative files are restricted until 2055 as established by Yale Corporation regulations. <a href="https://web.library.yale.edu/mssa/collections/research-use-of-yale-university-archives">https://web.library.yale.edu/mssa/collections/research-use-of-yale-university-archives</a>	1980–1989
b. 48, f. 3	Nitrogen research job position Yale University administrative files are restricted until 2055 as established by Yale Corporation regulations. <a href="https://web.library.yale.edu/mssa/collections/research-use-of-yale-university-archives">https://web.library.yale.edu/mssa/collections/research-use-of-yale-university-archives</a>	1982
b. 48, f. 4-5	School of Forestry and Environmental Studies Yale University administrative files are restricted until 2055 as established by Yale Corporation regulations. <a href="https://web.library.yale.edu/mssa/collections/research-use-of-yale-university-archives">https://web.library.yale.edu/mssa/collections/research-use-of-yale-university-archives</a>	1980–1989
b. 48, f. 6	Search Committee for Dean of School of Forestry Yale University administrative files are restricted until 2055 as established by Yale Corporation regulations. <a href="https://web.library.yale.edu/mssa/collections/research-use-of-yale-university-archives">https://web.library.yale.edu/mssa/collections/research-use-of-yale-university-archives</a>	1982
b. 48, f. 7	Search Committee for quantitative silviculturist Yale University administrative files are restricted until 2055 as established by Yale Corporation regulations. <a href="https://web.library.yale.edu/mssa/collections/research-use-of-yale-university-archives">https://web.library.yale.edu/mssa/collections/research-use-of-yale-university-archives</a>	1981

## Restricted files (continued)

b. 48, f. 8	Student grades Yale University student files are restricted until 2095 as established by Yale Corporation regulations. <a href="https://web.library.yale.edu/mssa/collections/research-use-of-yale-university-archives">https://web.library.yale.edu/mssa/collections/research-use-of-yale-university-archives</a>	Circa 1980s
b. 48, f. 9-10	Student papers Yale University student files are restricted until 2095 as established by Yale Corporation regulations. <a href="https://web.library.yale.edu/mssa/collections/research-use-of-yale-university-archives">https://web.library.yale.edu/mssa/collections/research-use-of-yale-university-archives</a>	1960–1989
b. 49, f. 1-3	Student papers Yale University student files are restricted until 2095 as established by Yale Corporation regulations. <a href="https://web.library.yale.edu/mssa/collections/research-use-of-yale-university-archives">https://web.library.yale.edu/mssa/collections/research-use-of-yale-university-archives</a>	1960–1989
b. 49, f. 4	Tritton, Louise Yale University administrative files are restricted until 2055 as established by Yale Corporation regulations. <a href="https://web.library.yale.edu/mssa/collections/research-use-of-yale-university-archives">https://web.library.yale.edu/mssa/collections/research-use-of-yale-university-archives</a>	1979
b. 49, f. 5	Udall, Stewart Yale University administrative files are restricted until 2055 as established by Yale Corporation regulations. <a href="https://web.library.yale.edu/mssa/collections/research-use-of-yale-university-archives">https://web.library.yale.edu/mssa/collections/research-use-of-yale-university-archives</a>	1969
b. 49, f. 6	Visiting professor candidates for tropical forestry course Yale University administrative files are restricted until 2055 as established by Yale Corporation regulations. <a href="https://web.library.yale.edu/mssa/collections/research-use-of-yale-university-archives">https://web.library.yale.edu/mssa/collections/research-use-of-yale-university-archives</a>	1981–1982

## **Selected Search Terms**

The following terms have been used to index the description of this collection in the Library's online catalog. They are grouped by name of person or organization, by subject or location, and by occupation and listed alphabetically therein.

### **Subjects**

Acid rain  
Biotic communities  
Clearcutting  
Ecology  
Ecology -- Study and teaching

### **Geographic Names**

Hubbard Brook Experimental Forest (N.H.)

### **Names**

Bormann, F. Herbert, 1922-2012  
Likens, Gene E., 1935-

### **Corporate Body**

Yale University. School of Forestry and  
Environmental Studies