

2003 Collection Statistics

**National Collections Program
Smithsonian Institution Archives**

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LIST OF REPORTING UNITS

AM& CAAHC	Anacostia Museum and Center for African American History and Culture
AAA	Archives of American Art
AC	Archives Center, National Museum of American History, Behring Center
AMSG	Arthur M. Sackler Gallery
CEROS	Center for Research and Outreach Services, National Portrait Gallery
C-HNDM	Cooper Hewitt National Design Museum
CFCH	Center for Folklife & Cultural Heritage
CWPP	Charles Willson Peale Papers, National Portrait Gallery
EEPA	Eliot Elisofon Photographic Archives, National Museum of African Art
FGA	Freer Gallery of Art
FSGA	Freer & Sackler Galleries Archives
FGA/AMSG Library	Freer Gallery of Art & Arthur M. Sackler Gallery Library
HMSG	Hirshhorn Museum and Sculpture Garden
HMSG Library	Hirshhorn Museum and Sculpture Garden Library
HSD	Horticultural Services Division
HSFA	Human Studies Film Archives, National Museum of Natural History
NAA	National Anthropological Archives, National Museum of Natural History
NASA	National Air & Space Archives, National Air & Space Museum
NASM	National Air & Space Museum
NMAfA	National Museum of African Art
NMAH	National Museum of American History, Behring Center
NMAI	National Museum of the American Indian
NMNH	National Museum of Natural History
NPG	National Portrait Gallery
NPM	National Postal Museum
NZP	National Zoological Park
OAHP	Office of Architectural History & Historic Preservation
SAAM	Smithsonian American Art Museum
SAAM/NPG Library	Smithsonian American Art Museum/National Portrait Gallery Library
SIA	Smithsonian Institution Archives
SITES	Smithsonian Institution Traveling Exhibition Service
SIL	Smithsonian Institution Libraries

ABBREVIATIONS

N/A	Not Applicable
N/R	Not Reported
SI	Smithsonian Institution
TRANS	Transactions

Summary

INTRODUCTION

This report presents a wealth of information regarding collection size, growth, and transaction activity in the museums, archives and libraries of the Smithsonian Institution. First published in 1987, this annual statistical report has become an important indicator of collections management activity, informing Smithsonian management and staff of unique events occurring in a given year and significant trends reflected over time. The combined data of this year's report and previous editions provides baseline information useful in benchmarking and performance planning.

The following FY 2003 activities highlight progress in collections management – a mission-critical component of the Smithsonian.

Enhanced Collections Stewardship

- The acquisition of 142,543 objects and specimens, 1,403 cubic feet of archival materials, and 20,356 library volumes in accordance with stringent acquisition criteria and unit collecting plans.
- The addition of 514,033 electronic collection records and 222,451 digital images to Smithsonian collections information systems – totaling 9.6 million records and 1.5 million images at the end of FY 2003.
- The migration of over 3.6 million electronic records from legacy systems to primary collections information systems.
- The repatriation of 13 human remains to Native American tribal representatives.
- The completion of the move of NPG and SAAM painting and sculpture collections to off-site storage.
- An agreement with Mexico's biodiversity program regarding the return of data and images of botanical type specimens originating in Mexico.
- The relocation of approximately 150,000 NMAH objects in support of the *Price of Freedom* exhibition.
- Completion of restoration work on the *Enola Gay*, begun in 1984 and involving a total of some 300,000 staff hours.

Improved Public Impact

- New collection loans of 197,192 collection items to nearly every state and territory, and to 43 countries around the globe.
- The receipt of nearly 20,000 items for identification from federal and state agencies, research institutes, universities, and museums.
- Thirty new loan transactions of 305 collection items to Smithsonian Affiliates.
- Open incoming and outgoing loans – initiated in FY 2003 and previous years – totaling 4,628,081 items.
- Over 12.9 million collection items available in electronic form to the public through 3.6 million electronic records and 293,000 digital images.
- Nearly 39,000 daily research visits in Smithsonian collections.
- Over 80,000 responses to archival and library reference requests.
- The interlibrary loan of 17,689 titles to library users in every state.
- The circulation of 57 SITES exhibitions containing 2,322 objects to 210 exhibitors in the United States, Canada and Australia.
- The move and installation of 1,248 NASM artifacts at the Udvar-Hazy Center including 82 aircraft.

This report is divided into three sections: Collections Stewardship, Public Impact, and Acquisition Highlights. Within each section, information is organized and presented by the museum, archive, and library communities to appropriately reflect their differences and uniqueness. For ease of presentation, legacy data is provided for the past 5 years. A customer survey questionnaire is included to solicit user comments and suggestions.

The National Collections Program wishes to acknowledge and thank Smithsonian collections management staff for their dedication and hard work as guardian to some of the nation's greatest artistic, historic, and scientific treasures. This report demonstrates Smithsonian accountability and oversight of the collections held in trust for the American public.

2003 BY THE NUMBERS**143.7 million**

The number of artifacts, works of art, and specimens of nature in Smithsonian museum collections at the close of FY 2003.

88%

The percentage of Smithsonian collections held by the National Museum of Natural History (126 millions specimens).

142,543

The number of objects and specimens acquired for Smithsonian museum collections in 2003. Forty-nine percent were donations and bequests, 11% were transfers, 32% were field collected, 4% were purchases, and 4% were exchanges.

0.37%

Annual rate of collections growth during the past ten years.

1,403 cubic feet, 4,900 feet of film, and 2,034 items

The number of new additions to Smithsonian archival holdings.

20,356

The number of volumes added to Smithsonian library holdings.

13,014

The number of objects and specimens deaccessioned.

197,92

The number of objects and specimens lent as new outgoing loan transactions during FY 2003. This material was loaned in 1,554 separate transactions. Ninety-five percent were loaned for research and identification and 5% were loaned for exhibition and “other” purposes.

51

The number of U.S. states and territories where the Smithsonian initiated new outgoing loan transactions.

43

The number of foreign countries that received Smithsonian collections as part of new outgoing loans initiated during FY 2003.

105,155

The number of objects and specimens borrowed as new incoming loans initiated during FY 2003. Of this total, 92% occurred at the National Museum of Natural History including the receipt of more 94,775 specimens for scientific study and identification.

38,321

Responses to reference requests by Smithsonian archival units.

17,689

The number of interlibrary loans conducted by Smithsonian Institution Libraries.

9.6 million

The number of collection records in automated collections information systems at the close of FY 2003.

1 million

Total number of digital collection images.

12.9 million

The number of objects and specimens available in electronic form to the public.

INSTITUTIONAL HIGHLIGHTS

The following statistics highlight various aspects of collections management around the Smithsonian.

Museums

<i>Items</i>	2003	2002	2001	2000	1999
Acquisitions	142,543	1,136,333	315,656	277,949	377,621
Deaccessions	13,014	13,499	6,452	29,311	10,102
Incoming Loans	105,155	10,462,905	136,660	332,408	111,209
Outgoing Loans	197,192	131,502	271,833	188,081	1,495,048

Archives

	2003	2002	2001	2000	1999
Acquisitions	1,403 cubic ft.	2,820	2,311	1,850	1,423
Reference Transactions	38,321	37,937	36,504	42,531	49,537
Processing	762 cubic ft.	655	1,663	331	1,789

Libraries

	2003	2002	2001	2000	1999
Acquisitions	20,356 volumes	25,451	19,921	17,322	21,431
Current Journals	6,960	7,028	6,252	7,437	7,883
Interlibrary Loans	17,689 titles	20,702	16,744	20,001	22,800

SITES

	2003	2002	2001	2000	1999
Exhibitions Circulated	57	56	53	45	43
Number of Objects	2,322	2,220	1,401	1,261	1,353
Number of Exhibitors	210	231	200	204	204

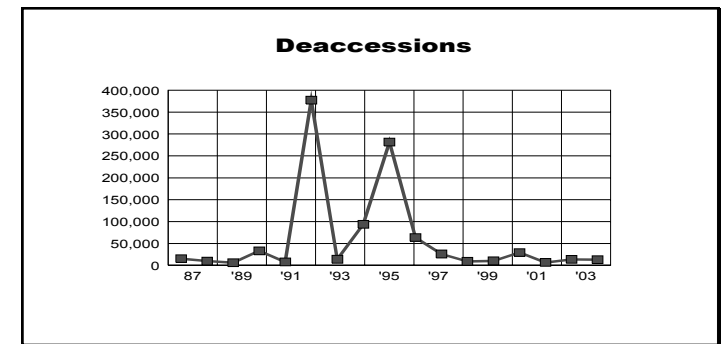
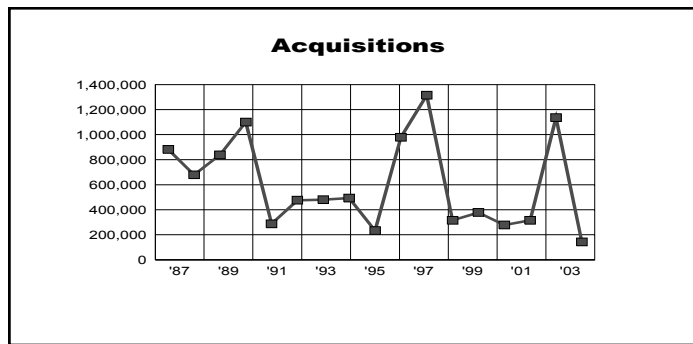
Collections Stewardship

The Smithsonian will “improve the stewardship of the national collections for present and future generations.”

~ Smithsonian Institution Strategic Plan, 2004-2008

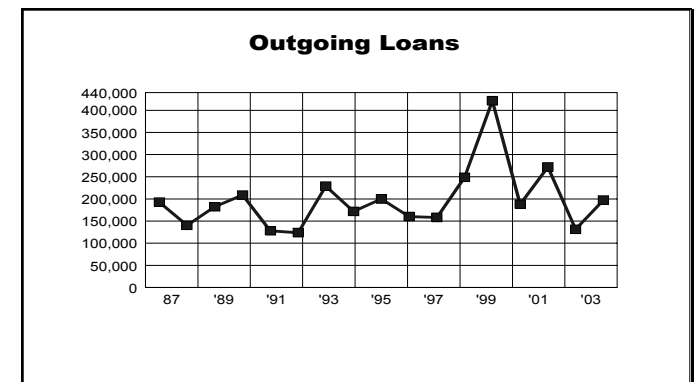
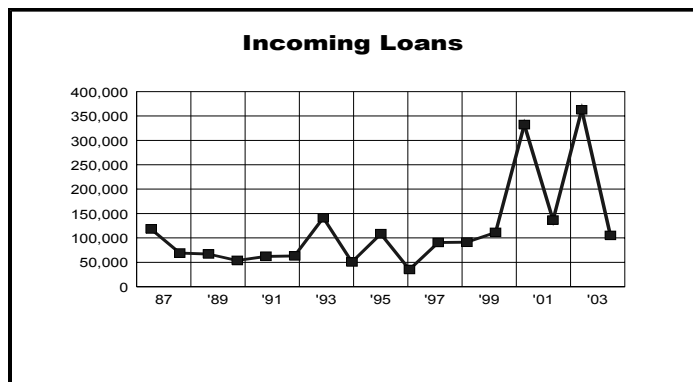
MUSEUM COLLECTION TOTALS

	<i>2003</i>	<i>2002</i>	<i>2001</i>	<i>2000</i>	<i>1999</i>
	Items	Items	Items	Items	Items
Smithsonian Total	143,668,679	143,538,924	142,417,741	142,105,365	141,849,308
ART	316,312	313,108	309,212	290,481	289,552
AMSG	3,887	3,797	3,975	3,838	3,486
C-HNDM	204,300	203,075	200,209	182,220	181,951
FGA	28,363	28,314	28,307	28,277	28,253
HMSG	11,540	11,493	11,465	11,488	11,524
NMAfA	8,361	8,247	7,573	7,375	7,360
NPG	19,133	18,874	18,644	18,514	18,448
SAAM	40,728	39,308	39,039	38,769	38,530
CULTURAL HISTORY	17,420,299	17,404,595	17,389,150	17,299,272	17,269,062
AM&CAAHC	8,299	7,711	7,480	7,203	7,203
NASM	45,338	45,041	47,302	46,704	38,806
NMAH	3,183,452	3,176,737	3,165,947	3,140,582	3,131,923
NMAI	780,300	779,319	778,696	778,348	771,617
NPM	13,365,487	13,358,437	13,352,396	13,289,114	13,282,201
HSD (Artifacts)	34,109	34,109	34,109	34,109	34,109
OAHP	3,314	3,241	3,220	3,212	3,203
NATURAL SCIENCE	125,932,068	125,821,221	124,719,379	124,515,612	124,290,694
NMNH	125,919,014	125,808,564	124,706,798	124,487,528	124,262,882
NZP	2,467	2,714	3,269	3,410	3,586
HSD (Living Plants)	10,587	9,943	9,312	24,674	24,226



During 2003, Smithsonian museums acquired 142,543 objects and specimens. The Science Community accounts for the majority of acquisitions (123,596 or 87%). Smithsonian art museums acquired 3,161 artworks while the history museums acquired 15,786 artifacts.

The Smithsonian deaccessioned a total of 13,014 objects and specimens. Ninety-nine percent of total deaccessions occurred in the science community.

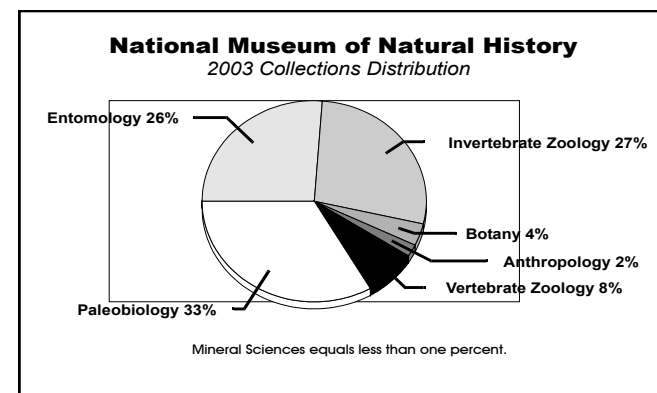
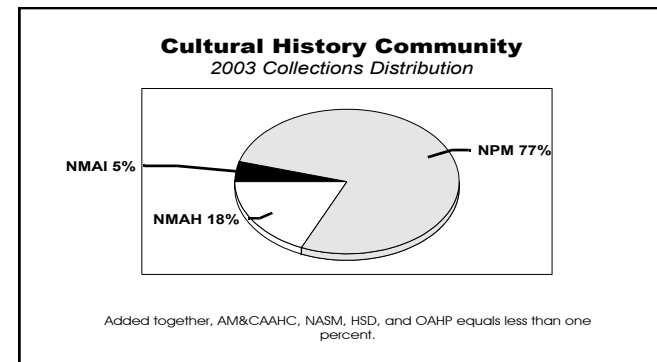
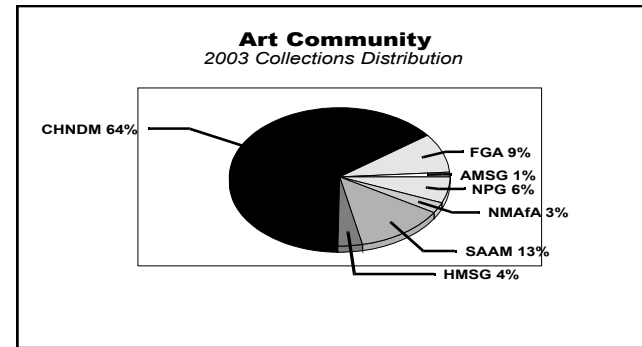
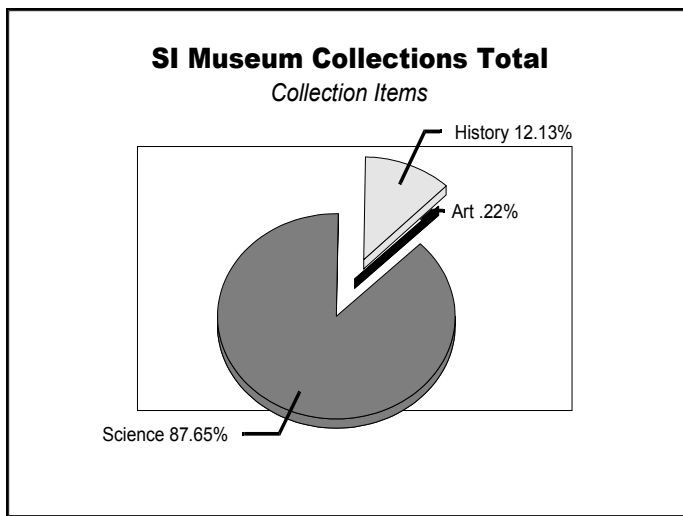


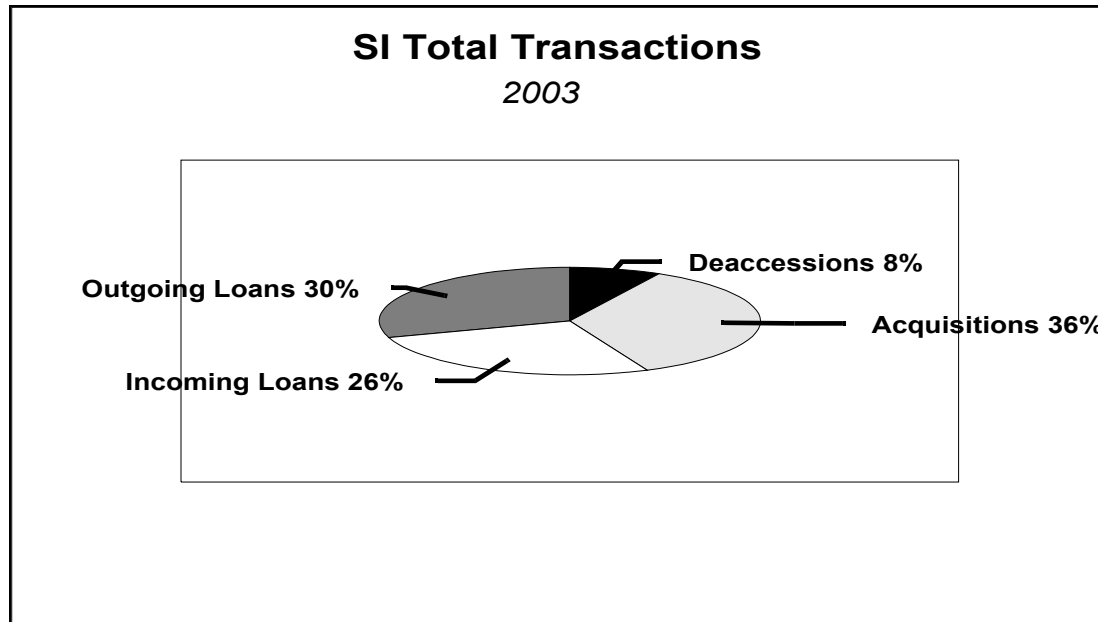
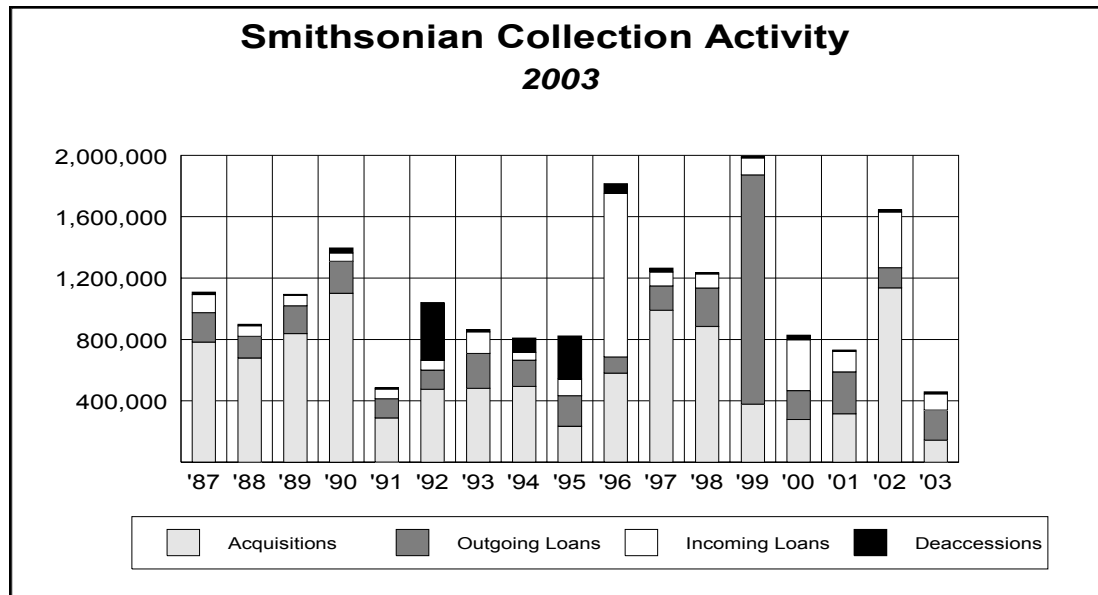
Incoming loans initiated during 2003 totaled 1,355 transactions and 105,155 objects and specimens. Of this total, seventy-two percent were for study, eighteen percent for identification, six percent for accession consideration, and four percent for exhibition. Other purposes equaled less than one percent.

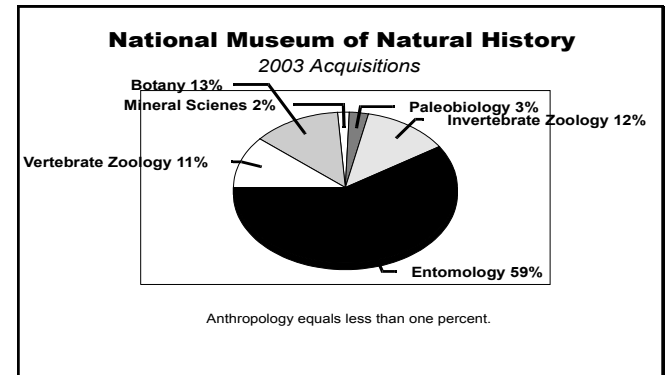
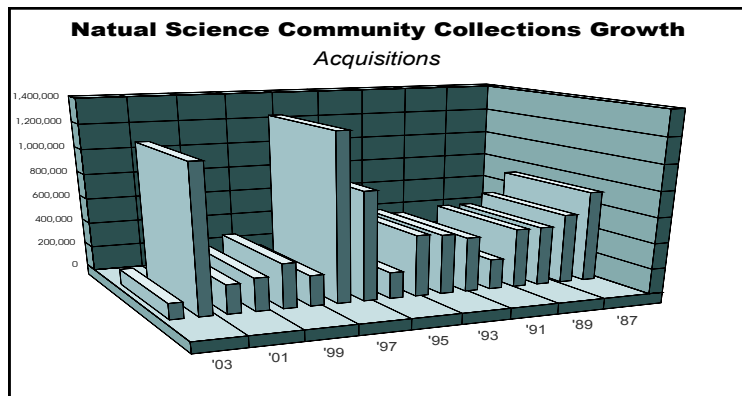
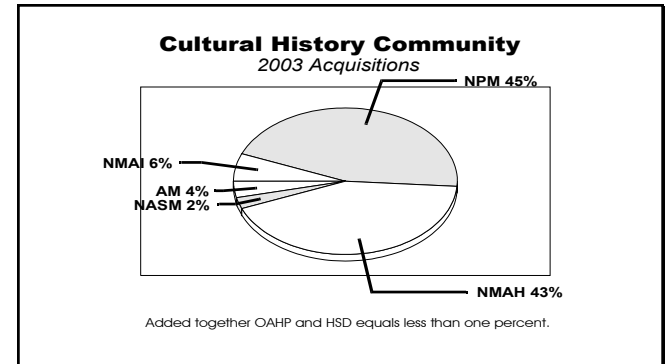
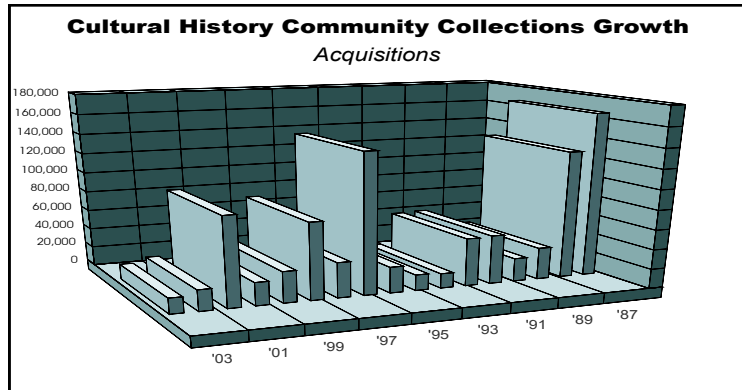
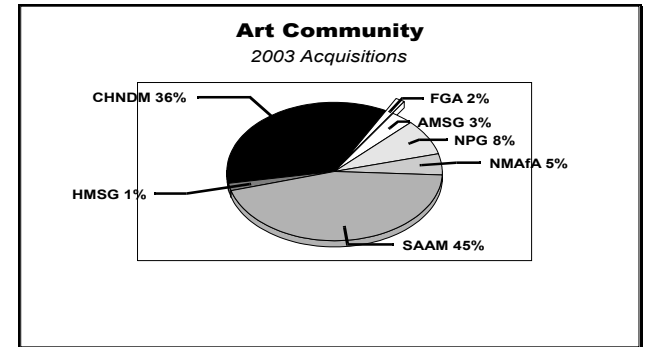
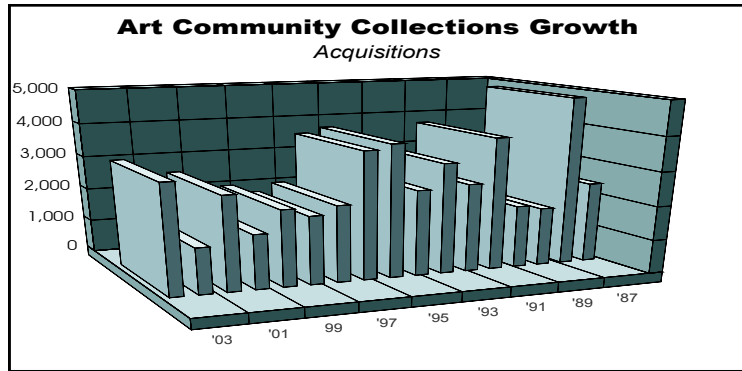
Outgoing loans initiated totaled 1,554 transactions and 197,192 objects and specimens to nearly every state in the United States and to 43 countries around the globe. Seventy-two percent were for study, twenty-three percent for identification, three percent for other purposes, and two percent for exhibition.

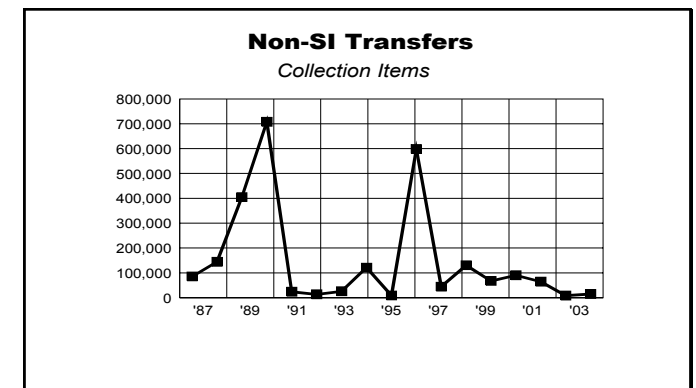
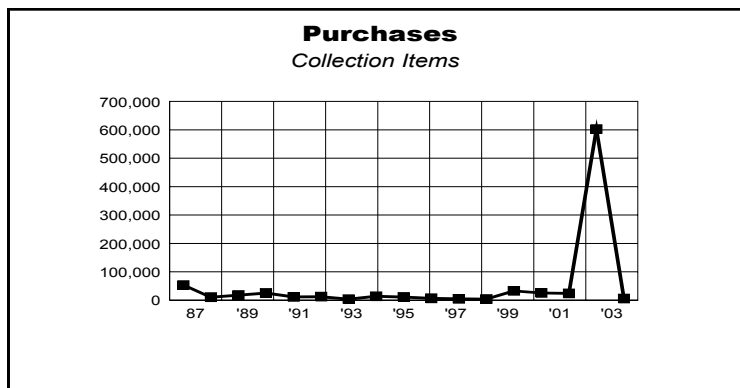
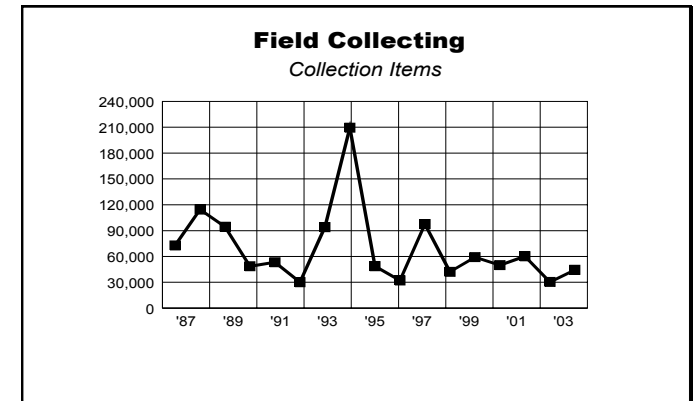
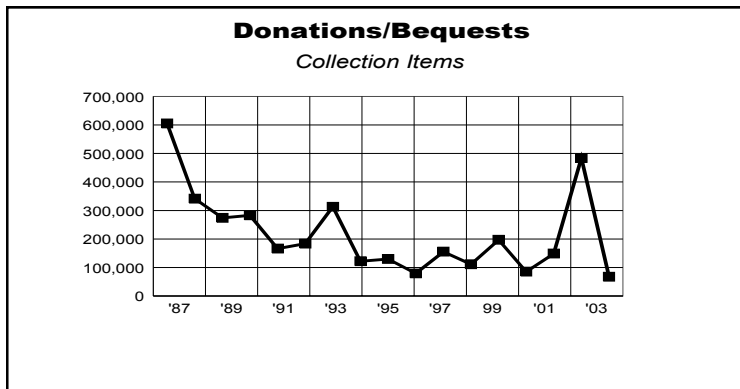
COLLECTIONS DISTRIBUTION

The following graphs are based on total collection holdings at the close of FY 2003.









- In FY 2003, field collecting increased by three percent and non-SI transfers increased by two percent in comparison to the previous reporting year.
- Despite fluctuations in annual acquisition totals, the number of transactions by acquisition method continues to remain consistent.

ACQUISITIONS

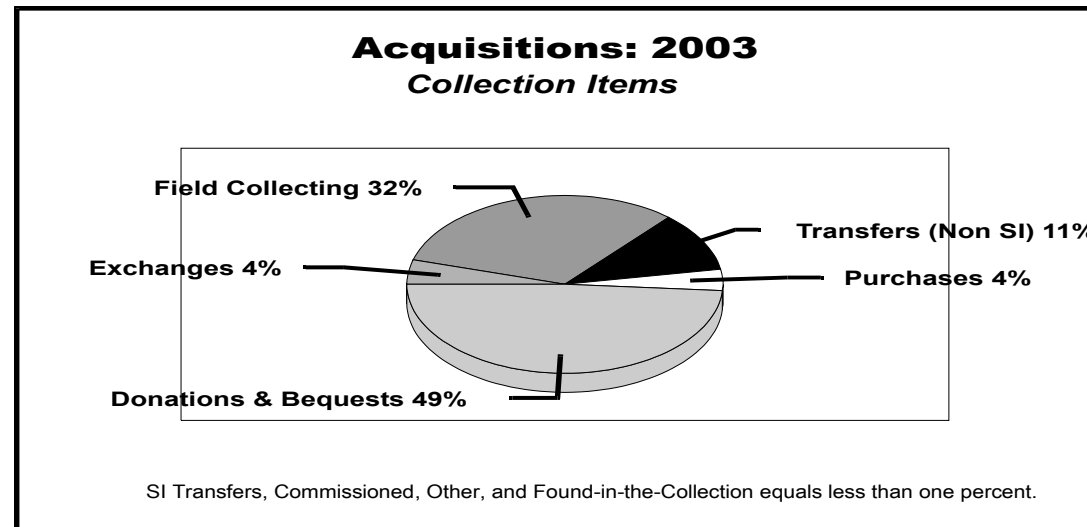
	2003		2002		2001		2000		1999	
	Trans	Items	Trans	Items	Trans	Items	Trans	Items	Trans	Items
Smithsonian Total	1,933	142,543	1,618	1,136,333	1,785	315,656	1,584	277,949	2,222	377,621
ART	233	3,161	223	1,335	301	2,723	195	769	366	1,881
AMSG	4	101	4	7	24	137	17	130	24	167
C-HNDM	27	1,126	42	500	56	1,926	29	275	65	511
FGA	21	49	6	7	18	30	19	24	21	93
HMSG	27	47	20	28	25	32	10	11	31	43
NMAfA	22	159	23	137	26	198	12	34	27	151
NPG	37	259	46	230	48	130	41	56	94	297
SAAM	95	1,420	82	426	104	270	67	239	104	619
CULTURAL HISTORY	760	15,786	466	21,123	468	89,420	369	23,190	493	31,546
AM&CAAHC	123	588	22	231	9	277	0	0	0	0
NASM	82	361	55	713	69	598	31	819	42	375
NMAH	389	6,731	289	13,418	316	25,288	285	8,690	371	5,712
NMAI	133	981	62	696	42	367	34	6,759	30	344
NPM	27	7,050	27	6,041	24	62,874	14	6,913	34	25,052
HSD (Artifacts)	0	0	0	0	0	0	0	0	0	0
OAHP	6	75	11	24	8	16	5	9	16	63
NATURAL SCIENCE	940	123,596	929	1,113,875	1,016	223,513	1,020	253,990	1,363	344,194
NMNH	879	121,864	865	1,111,324	958	221,235	962	252,633	1,271	342,773
NZP	50	828	46	799	46	831	45	842	85	1,251
HSD (Living Plants)	11	904	18	1,752	12	1,447	13	515	7	170

A sampling of 2003 acquisitions reflects the depth and diversity of Smithsonian collections: (see Acquisition Highlights for more)

- The Plummer collection which includes a diary written by Adam Francis Plummer – a slave on the Riversdale Plantation of Prince George’s County, Maryland – and ceremonial artifacts from a 19th century burial society.
- Ninety-eight photographs from the estate of Raghubir Singh who is one of India’s greatest modern photographers.
- A wine bottle of Cizhou-type, Xixia Kingdom or Jin-Yuan dynasty (13th-mid 14th century) stoneware decorated with cut glaze technique.
- An Air France Concorde, the oldest of five in the Air France fleet of the world’s only supersonic passenger jet liner.
- A 1939 Plymouth business coupe and a 1950 Studebaker Champion Starlight coupe.
- A late 19th – early 20th century copper alloy bracelet made by the Bamum peoples of Cameroon.
- Roy Lichtenstein, *Brushstroke*, 1996, fabricated 2002, painted aluminum sculpture, installed on the museum Plaza, facing the National Mall.
- Male and female bald eagles (*Haliaeetus leucocephalus*) received as gifts for the new bald eagle refuge exhibit. This was developed in collaboration with the U.S. Fish and Wildlife Service and the American Zoo and Aquarium Association.
- 4,110 grasshoppers and relatives (e.g. crickets, katydids, praying mantis, walking sticks, roaches, etc.) collected for the museum in the Dominican Republic.
- Suite of 104 mineral specimens from Burma that includes fine examples of topaz, elbaite and an exceptionally rare specimen of paineite.
- A ball gown of off-white satin with rose point lace and crystal beads worn by First Lady Frances Cleveland to the 1893 inaugural balls.
- *The Ruth Bowman and Harry Kahn Twentieth-Century American Self-Portrait Collection* of 187 works on paper that represents an extraordinary survey of the self-portrait genre.
- A rare stereo view card showing the Upper Main Hall in the Smithsonian Building taken early during the 1872-73 reconstruction of the hall after the fire of 1865.

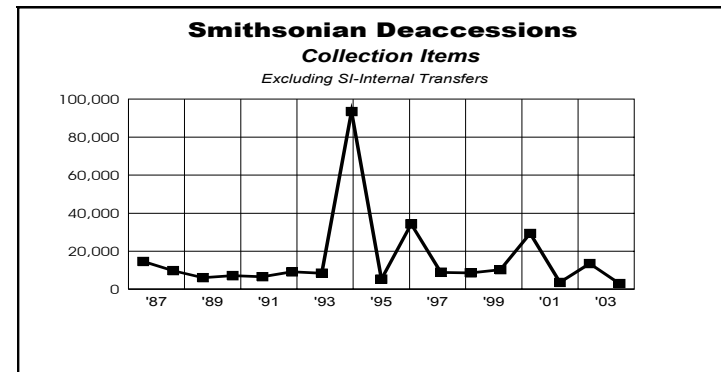
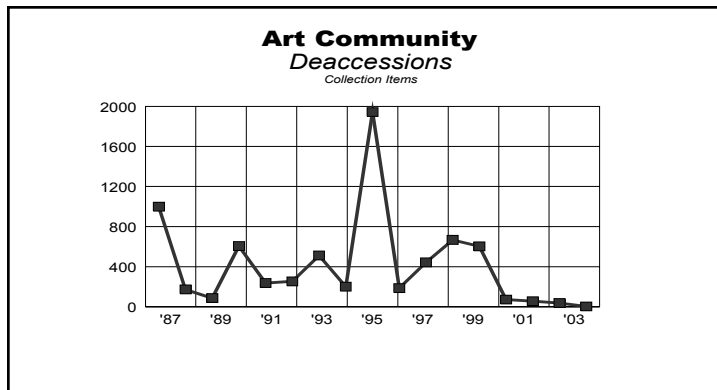
ACQUISITIONS BY METHOD

	2003		2002		2001		2000		1999	
	Trans	Items	Trans	Items	Trans	Items	Trans	Items	Trans	Items
Smithsonian Total	1,933	142,543	1,618	1,136,335	1,785	315,656	1,584	277,949	2,222	377,621
Donations	1,253	67,302	1,035	483,804	1,173	142,673	1,053	80,350	1,498	126,442
Purchases	228	5,618	269	602,754	265	24,241	214	25,531	305	32,813
Bequests	7	321	7	75	7	6,056	13	5,020	16	70,426
Transfers (SI)	17	841	16	805	23	988	22	1,770	29	984
Transfers (Non SI)	109	14,822	75	8,222	86	64,625	65	90,140	53	67,199
Field Collecting	94	44,404	83	30,396	75	60,259	63	49,966	99	59,254
Exchanges	93	5,969	89	6,149	91	5,570	99	19,791	171	12,333
Found in Collection	117	1,784	36	2,751	38	2,026	28	2,944	30	2,371
Commissioned	6	196	1	6	2	3	14	37	2	4
Other	9	1,286	7	1,371	25	9,215	13	2,400	19	5,795



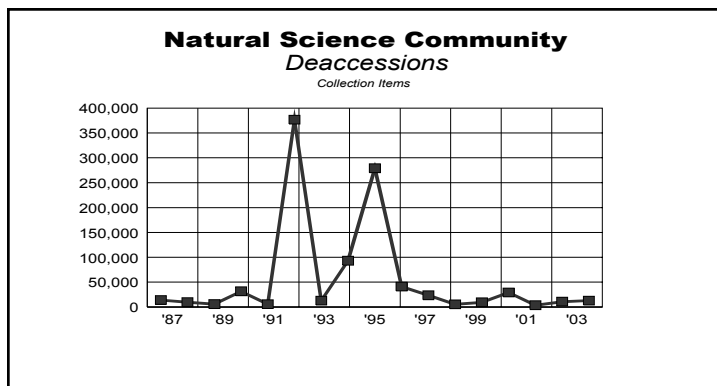
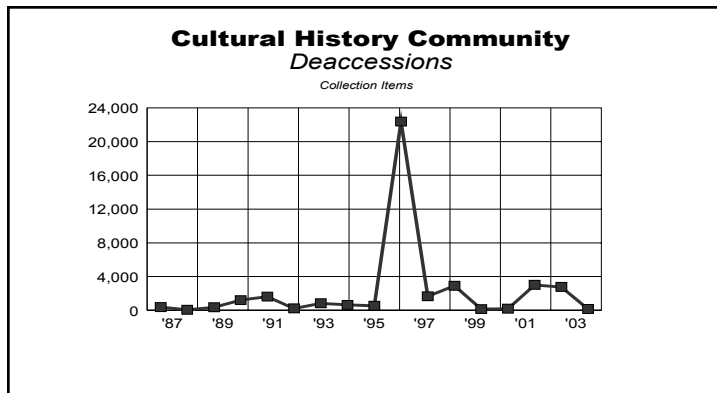
DEACCESSIONS

	2003		2002		2001		2000		1999	
	Trans	Items	Trans	Items	Trans	Items	Trans	Items	Trans	Items
Smithsonian Total	137	13,014	283	13,499	500	6,452	220	29,311	297	10,102
ART	3	3	1	37	56	56	3	72	10	603
AMSG	0	0	0	0	0	0	0	0	0	0
C-HNDM	0	0		N/R	1	1	1	6	5	329
FGA	0	0	0	0	0	0	0	0	0	0
HMSG	0	0	0	0	55	55	1	47	2	237
NMAfA	3	3	0	0	0	0	1	19	1	35
NPG	0	0	0	0	0	0	0	0	0	0
SAAM	0	0	1	37	0	0	0	0	2	2
CULTURAL HISTORY	18	145	47	2,766	75	3,005	48	178	28	149
AM&CAAHC	0	0	0	0	0	0	0	0	0	0
NASM	9	65	18	42	53	2,932	21	53	4	4
NMAH	9	80	24	2,648	17	45	23	97	21	137
NMAI	0	0	3	73	4	19	4	28	3	8
NPM	0	0	0	0	0	0	0	0	0	0
HSD (Artifacts)	0	0	0	0	0	0	0	0	0	0
OAHP	0	0	2	3	1	9	0	0	0	0
NATURAL SCIENCE	116	12,866	235	10,696	369	3,391	169	29,061	259	9,350
NMNH	68	11,414	65	9,558	52	1,965	63	27,987	107	8,023
NZP	46	1,191	37	1,005	34	1,143	39	1,007	36	1,211
HSD (Living Plants)	2	261	133	133	283	283	67	67	116	116



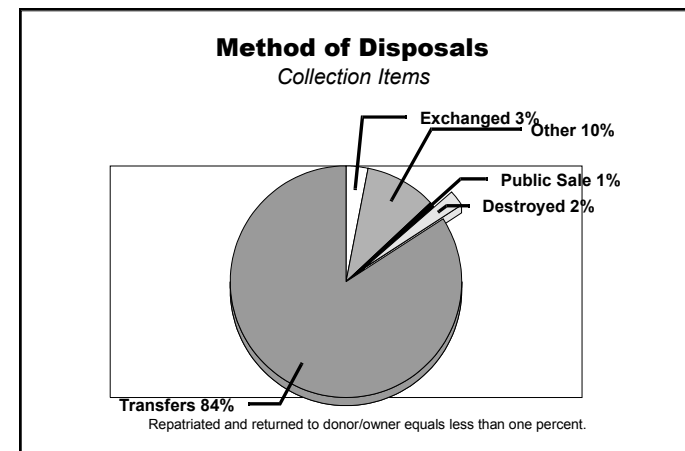
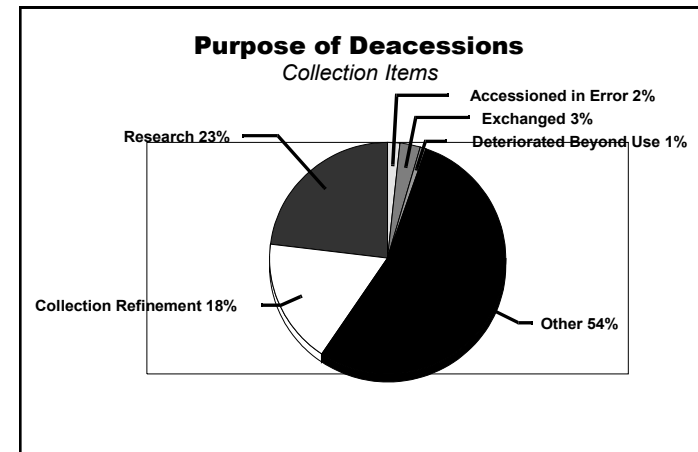
During FY 2003, the Smithsonian deaccessioned 13,014 collection items.

UNIT HIGHLIGHTS



- Ninety-nine percent of total deaccessions occurred within the natural science community (12,866 specimens). Of that total, eighty-nine percent (11,414 specimens) were from the National Museum of Natural History, nine percent were from the National Zoological Park, and the remaining two percent were from the Horticulture Services Division, Orchid Collection.
- Within the National Museum of Natural History, the Department of Paleobiology deaccessioned 10,023 specimens that included an internal transfer of a 10,000 specimen U.S. Geological Survey diatom collection to the Department of Botany. In addition, NMNH deaccessioned 813 specimens that were donated for research purposes to such scientific and cultural institutions as: Dickinson College, National Museum Natuurhistorisch, Australian Museum, Orma J. Smith Museum of Natural History, The National University of Singapore, Museum Victoria, Pontificia Universidade Catolica do Rio Grande do Sul, Ghent University, Universidad Nacional Mayor de San Marcos Museo de Historia Natural, Scripps Institution of Oceanography, and the American Museum of Natural History.

- As part of collections refinement, the National Museum of American History deaccessioned 71 police badges from the city of Long Beach, California for transfer to the Long Beach Historical Society, California. Additional deaccessions include the return of artwork from the Little Golden Book *Good Morning and Good Night* to Random House, Inc., Racine, Wisconsin and the internal transfer of 0.33 cubic feet of duplicate sheet music with flight themes to SIL's NASM Branch Library; and four satellites to NASM's artifact collection.
- The National Air & Space Museum deaccessioned 64 objects for collections refinement, including a box containing miscellaneous interior items from the Stearman Hammond; in-flight coverall trousers and boots; a small collection of original photographic negatives; a collection of gloves; and 50 assorted space food items from the STS-27 shuttle mission.
- The Department of Anthropology, NMNH, repatriated 13 human remains to representatives of the Sault Ste. Marie Tribe (Michigan), Native Village of Larsen Bay (Washington), and Yakama Nation – Confederated Tribes of Warm Springs (Alaska).
- A total of 1,191 animals were deaccessioned at the National Zoological Park, including the last representatives of 12 species. Important deaths included a male bald eagle, female Darwin's rhea, two red pandas, a male orangutan, a male tiger, and a female pygmy hippopotamus. Two hundred ninety five animals were donated or sold to other zoological facilities.



DEACCESSIONS AND DISPOSALS

	2003		2002		2001		2000		1999	
	Trans	Items	Trans	Items	Trans	Items	Trans	Items	Trans	Items
Smithsonian Total	137	13,014	283	13,499	500	6,452	220	29,311	297	10,102
Reason for Deaccession										
Deteriorated Beyond Use	3	27	6	91	7	580	24	99	136	258
Beyond Scope	7	10,014	2	10	3	14	1	6	8	29
Collection Refinement	19	519	81	4,041	97	3,303	22	3,672	22	830
Exchanged	12	80	3	25	3	108	8	308	20	1,514
Research	17	678	39	7,613	0	0	37	23,399	N/A	N/A
Accessioned in Error	3	51	12	49	30	482	7	24	5	49
Repatriation	3	13	4	81	4	19	7	90	7	54
Other	73	1,632	136	1,589	356	1,946	114	1,713	99	7,368
Method of Disposal	201	13,077	301	13,517	501	6,456	232	29,406	302	10,623
Transfer/Donated to:										
Smithsonian Unit	12	10,073	61	577	14	2,863	1	19	10	347
Government Agency	1	1	1	1	2	10	3	7	1	1
Non-Profit Organization	26	892	65	11,216	38	1,156	51	27,445	69	6,192
Returned to Donor/Owner	5	44	8	313	6	628	4	105	3	41
Repatriated	3	13	4	81	3	16	5	91	5	48
Destroyed	8	277	86	173	290	295	90	165	137	263
Exchanged	24	409	3	25	11	171	10	305	21	1,554
Public Sale	71	74	30	74	64	85	25	164	14	400
Other	51	1,294	43	1,057	73	1,232	43	1,105	42	1,777

The archives of the Smithsonian collect and manage documentary materials that support the Smithsonian’s research and public programming activities, and preserve the Institution’s history. Archival holdings include institutional and organizational records, personal papers, manuscripts, special collections, oral histories, works of art, photographs, sound recordings, films, and other special media materials.

ARCHIVAL COLLECTION TOTALS

	2003	2002	2001	2000	1999
Smithsonian Totals	82,932 cubic ft. 6,897,475 ft.	81,769 cubic ft. 6,892,575 ft.	79,054 cubic ft. 5,885,434 ft.	68,586 cubic ft. 5,860,954 ft.	66,966 cubic ft. 5,828,000 ft.
ARCHIVES	approx. 166.3 million items	approx. 163.9 million items	approx. 158.5 million items	approx. 137.5 million items	approx. 134.3 million items
AAA	15,448 cubic ft.	15,104 cubic ft.	14,129 cubic ft.	13,853	13,432
AC	12,109 cubic ft.	11,901 cubic ft.	11,327 cubic ft.	10,834	10,402
CEROS	1,341 cubic ft.	1,329 cubic ft.	1,318 cubic ft.	1,246	1,233
CFCH	9,152 cubic ft.	9,105 cubic ft.	9,105 cubic ft.	N/R	N/R
CWPP	N/A	N/A	N/A	N/A	N/A
EEPA	296,417 items	296,417 items	294,615 items	285,584	284,021
FSGA	882 cubic ft.	901 cubic ft.	950 cubic ft.	1,131	1,057
HSD	90,894 items	88,860 items	87,434 items	85,821	84,831
HSFA	6,897,475 ft.	6,892,575 ft.	5,885,434 ft.	5,860,954	5,828,000
NASA	10,899 cubic ft.	10,899 cubic ft.	10,826 cubic ft.	10,723	10,600
NAA	8,481 cubic ft.	8,252 cubic ft.	7,979 cubic ft.	7,836	7,734
NMAI	N/R	N/R	N/R	300	300
SIA	24,620 cubic ft.	24,279 cubic ft.	23,420 cubic ft.	22,663	22,208

- Over the past 10 years, Smithsonian archival collections have increased by 37% – an average growth rate of 3.25% per year.

ACQUISITIONS

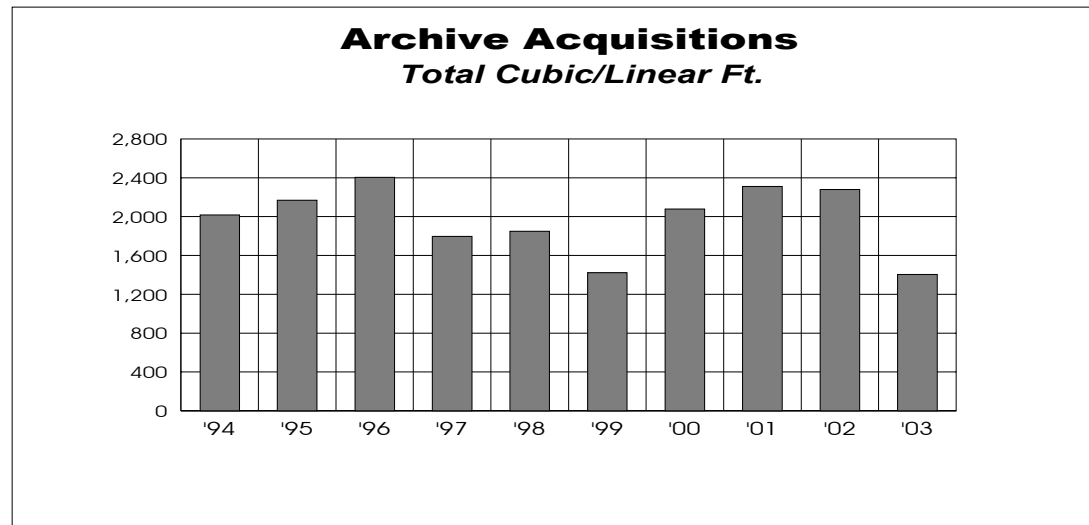
	<i>2003</i>	<i>2002</i>	<i>2001</i>	<i>2000</i>	<i>1999</i>
Smithsonian Total	1,403 cubic ft. 4,900 feet 2,034 items	2,820 cubic ft. 1,004,630 feet 3,228 items	2,311 cubic ft. 24,472 feet 10,644 items	1,850 cubic ft. 32,734 feet 2,553 items	1,423 cubic ft. 95,000 feet 11,494 items
ARCHIVES					
AAA	347 linear ft.	974 linear ft.	281 linear ft.	432	362
AC	209 cubic ft.	574 cubic ft.	504 cubic ft.	432	224
CEROS	12 cubic ft.	11 cubic ft.	5 cubic ft.	13	4
CFCH	47 cubic ft.	N/R	380 cubic ft.	N/R	N/R
CWPP	N/A	N/A	N/A	N/A	N/A
EEPA	N/R	1,802 items	9,031 items	1,563	9,748
FSGA	3 cubic ft.	37 cubic ft.	31 cubic ft.	74	42
HSD	2,034 items	1,426 items	1,613 items	990	1,746
HSFA	4,900 feet	1,004,630 feet	24,472 feet	32,734	95,000
NASA	163 cubic ft.	73 cubic ft.	103 cubic ft.	123	80
NAA	229 linear ft.	273 linear ft.	143 linear ft.	102	151
NMAI	N/R	N/R	N/R	N/R	N/R
SIA	393 cubic ft.	878 cubic ft.	863 cubic ft.	674	560

During FY 2003, Smithsonian archival collections were augmented by the addition of 1,403 cubic feet, 4,900 feet of film and 2,034 items. Sixty-four percent of total acquisitions were donations, twenty-eight percent were internal transfers, five percent were by bequests, and two percent were external transfers.

Significant acquisitions include:

- Papers from the gallery of Dorothy Goldeen, a prominent art dealer in California, including correspondence with such artists as Enrique Martinez, Celaya, Dale Chihuly, and Nam June Paik.
- William Russo Music and Personal Papers (1920s-2002) including music manuscripts and audiovisual recordings of a composer whose works had connections to Duke Ellington and other major music figures.
- The Music and Personal Papers (1920s – 2002) of William Russo, a composer with connections to Duke Ellington and other music figures.

See Acquisition Highlights for a listing of newly acquired materials.



Proper arrangement of collection material is essential to insure appropriate preservation and to facilitate the retrieval of information from the collection. To provide physical control and greater intellectual accessibility, archival holdings are most often arranged in hierarchical groups. Documentary materials are processed and arranged according to the basic archival principles of provenance and original order. Documentation occurs at many levels as circumstances warrant and resources permit: depository, record group, collection, series, file unit, and item or document. Some collections, such as photographic collections, arrangement by source and original order has limited importance. Available resources, collection content, research value, physical condition, and anticipated use are the primary factors affecting processing and arrangement.

- During FY 2003, 762 cubic feet, 1,001 items, and 4,900 feet of film were processed reflecting both newly acquired and previously held materials.

Through its 20 branch libraries and electronic resources available online, the Smithsonian Institution Libraries (SIL) supports the research, curatorial, and exhibition activities of the Smithsonian by providing and organizing research materials and pertinent information sources. The Libraries, with collections over 1.5 million volumes, acquires, organizes, and delivers scholarly, scientific, and educational resources in all forms, including digital and electronic, to Smithsonian and affiliated staff and to libraries, researchers, and the general public worldwide.

LIBRARY COLLECTION TOTALS

	2003 Volumes	2002 Volumes	2001 Volumes	2000 Volumes	1999 Volumes
Smithsonian Total	1,510,986	1,491,818	1,483,183	1,497,915	1,483,450
LIBRARIES					
FGA / AMSG				70,737	68,374
HMSG				55,354	53,504
SAAM / NPG				146,730	141,471
SIL	1,510,986	1,491,818	1,483,183	1,225,094	1,220,101

- Over the past 10 years, Smithsonian library collections have increased by 12% – an average growth rate of 1.11% per year.

In FY 2001, the three art libraries at the Hirshhorn Museum, American Art and Portrait Gallery, and the Freer and Sackler Galleries were integrated into the Smithsonian Institution Libraries (SIL) system. Subsequent to this integration adjustments were made in the collection totals of the three art libraries to reflect greater accuracy in counting methodologies. These adjustments account for the discrepancy in the overall collection total between 2001 and 2000.

VOLUMES ADDED

	2003 Volumes	2002 Volumes	2001 Volumes	2000 Volumes	1999 Volumes
Smithsonian Total	20,356	25,451	19,921	17,322	21,431
LIBRARIES					
FGA / AMSG				2,363	2,658
HMSG				1,941	2,476
SAAM / NPG				5,259	6,121
SIL	20,356	25,451	19,921	7,759	10,176

During FY 2003, the Smithsonian’s total library holdings were enhanced by the addition of 20,356 volumes. See Acquisition Highlights for a list of selected Library acquisitions.

Library materials are retained as long as they continue to serve the objectives and purposes of the Smithsonian and collecting unit, and can be properly and adequately stored, maintained, preserved, and used. When library materials become irreplaceably damaged, superseded by newer items, duplicated, or divergent from the collecting scope of the unit, they may be permanently withdrawn from the collection. The primary method of disposal is through gift, exchange, or sale, to another non-profit institution for continued use in research, exhibitions, or educational activities.

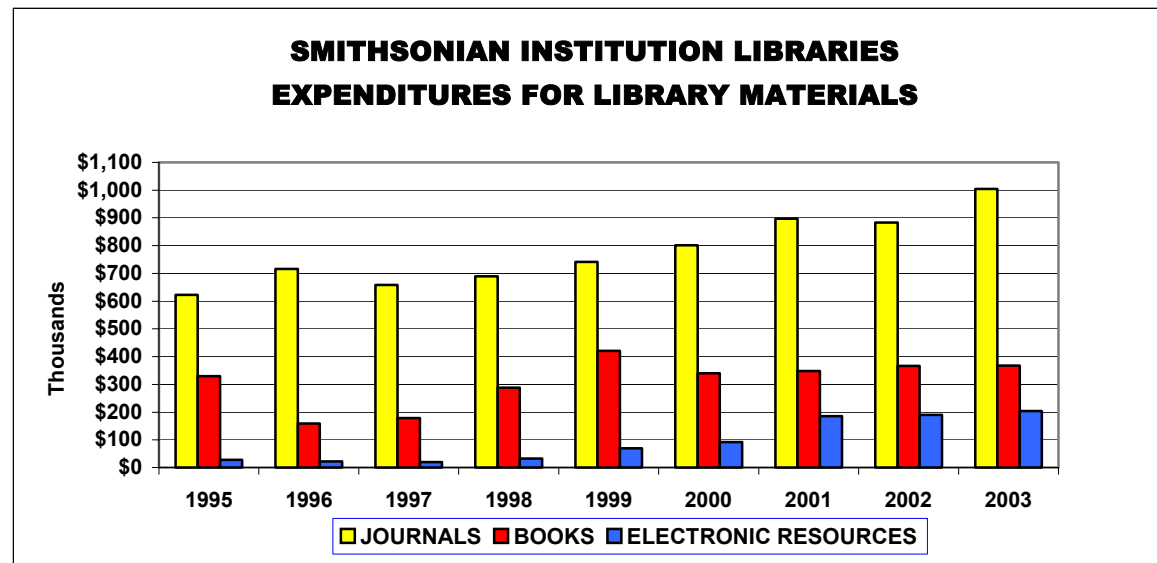
For this fiscal year, libraries of the Smithsonian withdrew a total of 1,188 volumes as a result of collection refinement. Materials were transferred to the Library of Congress and other educational institutions. There were no items withdrawn or deaccessioned from SIL Special Collections.

CURRENT JOURNALS

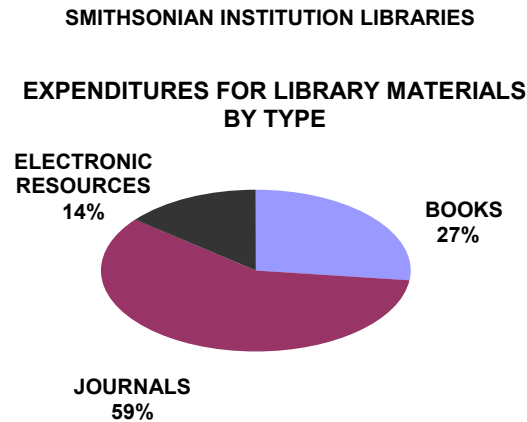
	2003	2002	2001	2000	1999
Total Journals	6,960	7,028	6,252	7,437	7,883
Purchased	3,522	3,610	3,113	3,955	4,155
Not Purchased	3,438	3,418	3,139	3,482	3,728

SIL relies on exchanges with other libraries and societies for more than half of its serial subscriptions and many of the books added each year. In FY 2003, SIL maintained 4,626 exchange partners in 50 states and 147 countries that supplied Smithsonian scientists and researchers with current periodicals, exhibition catalogs, and professional society publications.

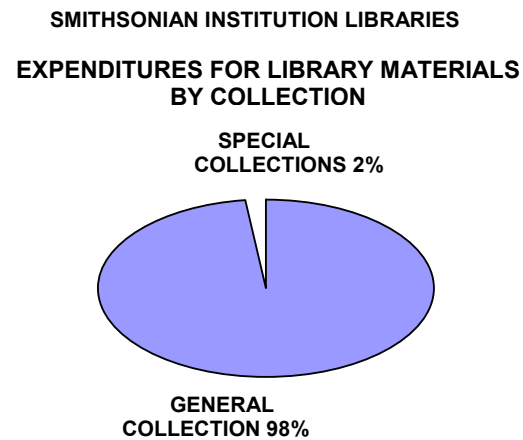
EXPENDITURES



- From FY 1995 to FY 2003, SIL reports a 61% increase in the costs / expenditures for journals.



Eighty-six percent of SIL acquisitions expenditures were for print (books and journals) whereas 14% were for electronic resources. Of the total number for expenditures, 98% were for general collections and 2% were for special collections.



DIGITIZATION: MANAGING COLLECTIONS

The Smithsonian Institution provides the people of the United States as well as a world-wide audience, with access to the collections held by its museums, archives, and research institutes and the information and images which document these collections. The Institution's collections information systems support access of value to its audience from within its facilities, through network technologies, and through other electronic media.

Collections Information System Management Committee
Smithsonian Institution

The Smithsonian manages its collections – museum, archive and library holdings – through 9.6 million electronic collection records. A record may represent more than one object or specimen, as in the case with natural history and archaeological collections. A digital image exists for more than 1 million collection items that have electronic records. During FY 2003, Smithsonian collections information systems were enhanced by the addition of 514,033 electronic records and 222,451 digital images.

<u>Collections Information Systems (CIS)</u>	Under Secretary for Art	Deputy Secretary	Under Secretary for Science	Total
Number of object / specimen records available in electronic form in unit's CIS's.				
Total electronic Records	1,195,594	2,633,432	5,844,396	9,673,422
Total electronic Images	170,991	711,885	623,255	1,506,131
Number of object / specimens represented by				
Total electronic Records	1,085,649	6,740,509	23,013,492	30,839,650
Total electronic Images	150,888	331,877	586,998	1,069,763

Units represented by the Under Secretary for Art include AAA, CHNDM, FSGA, HMSG, NMAFA, NPG, and SAAM. Units represented by the Deputy Secretary include AM, CFCH, HSD, NMAH, NMAI, NPM, Castle, SIA, and SIL. Units represented by the Under Secretary for Science include NASM, NMNH, and NZP.

<u>Collections Information Systems (CIS)</u>	Under Secretary for Art	Deputy Secretary	Under Secretary for Science	Total
Total number of records / images added to systems during FY 2003				
Total electronic records created / digitized and added during FY 03	161,638	209,469	142,926	514,033
Total electronic images digitized and added during FY 03	26,504	126,772	69,175	222,451
Total number of electronic records converted from legacy systems during FY 03	720	3,472	1,978	6,170

- 9.6 million electronic collection records – 72% reside in unit primary collections information systems (a 40% increase from FY 2003), 16% in SIRIS (14% reported previously), and 12% in legacy systems or other databases (54% in FY 2003).
- 1 million collection items with digital images – 56% are maintained in unit primary collections information systems, 7% in Smithsonian Institution Research Information System (SIRIS), and 37% in legacy systems or other databases.

Public Impact

In support of its overall mission to 'increase and diffuse knowledge,' the Smithsonian will "expand a national outreach effort to share the Smithsonian's resources with larger and more diverse audiences throughout America."

~ Smithsonian Institution Strategic Plan, 2004-2008

MUSEUM LOANS

Lending and borrowing collections for exhibition, research, and study is an integral part of the Smithsonian's mission by making museum collections accessible to the widest possible audience.

- Active incoming and outgoing loans totaled 19,056 transactions and 4,628,081 items.
- A total of 3,257 incoming and outgoing loan transactions involving 375,745 objects and specimens were completed and returned.

Incoming and outgoing loan statistics presented below reflect loans initiated during each representative year.

INCOMING LOANS

- | | |
|---|--|
| <ul style="list-style-type: none"> • During 2003, the Smithsonian initiated over 1,355 new incoming loan transactions involving 105,155 objects and specimens. | <ul style="list-style-type: none"> • Seventy-two percent of incoming loans initiated were for study purposes, eighteen percent for identification, six percent for accession consideration and four percent for exhibition. Other purposes equaled less than one percent. |
|---|--|

Distribution of incoming loans by community reflects the following:

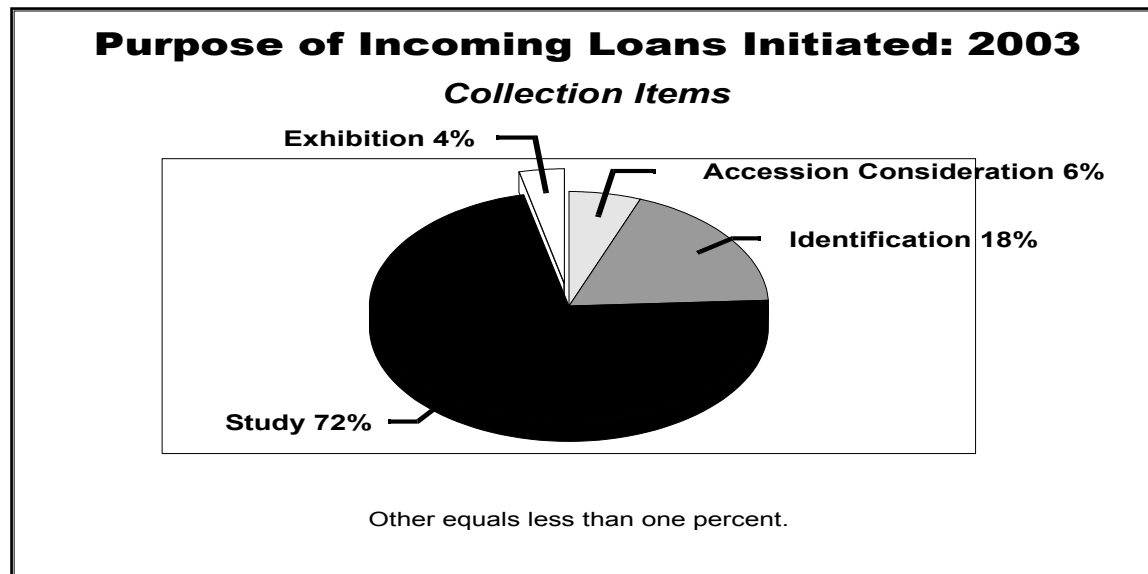
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|---|---|
| <ul style="list-style-type: none"> • The Art Community borrowed 6,657 objects through 429 transactions. Seventy-eight percent of that total was for accession consideration, 20% for exhibition, and 2% for study. The Arthur M. Sackler Gallery borrowed the Robert O. Muller Collection of over 3,880 Japanese woodblock prints for accession consideration. • The History Community reported 2,461 objects through 121 transactions. One hundred percent were for exhibition. The National Museum of the American Indian borrowed 688 objects from the Canadian Museum of Civilization for a traveling exhibit that addresses the historic and | <p>contemporary Native relationship to ranching and rodeo in the Great Plains. The National Postal Museum borrowed 150 items from the Royal Philatelic Collection in London for the exhibition <i>The Queen's Own: Stamps that Changed the World</i>.</p> <ul style="list-style-type: none"> • Incoming loans for the Science Community totaled 96,037 objects and specimens through 805 transactions. Of that total, 58% (55,328 specimens) were in the Department of Entomology, NMNH. |
|---|---|

INCOMING LOANS

	2003		2002		2001		2000		1999	
	Trans	Items	Trans	Items	Trans	Items	Trans	Items	Trans	Items
Smithsonian Total	1,355	105,155	1,401	10,462,905	1,609	136,660	2,065	332,408	2,046	111,209
ART	429	6,657	505	3,012	356	2,499	505	3,665	753	6,632
AMSG	61	4,363	43	359	50	548	64	796	78	1,188
C-HNDM	71	316	76	550	50	711	143	1,649	73	2,860
FGA	54	179	25	63	26	87	30	104	38	124
HMSG	10	321	66	506	41	213	66	333	86	156
NMAfA	44	274	50	347	34	303	33	231	13	273
NPG	48	325	99	350	46	140	39	60	186	797
SAAM	141	879	146	837	109	497	130	492	279	1,234
CULTURAL HISTORY	121	2,461	68	1,645	86	597	310	1,169	152	1,265
AM&CAAHC	17	175	16	362	11	165	226	490	64	286
NASM	23	297	4	15	13	32	9	24	1	12
NMAH	35	206	31	166	31	68	44	461	48	296
NMAI	35	1,052	2	811	6	138	3	49	3	567
NPM	8	725	10	285	8	77	7	64	15	33
HSD (Artifacts)	0	0	0	0	0	0	0	0	18	44
OHP	3	6	5	6	17	117	21	81	3	27
NATURAL SCIENCE	805	96,037	828	10,458,248	1,167	133,564	1,250	327,574	1,141	103,312
NMNH	802	95,960	826	10,458,202	1,165	133,473	1,247	327,541	1,131	103,221
NZP	3	77	2	46	2	91	3	33	10	91
HSD (Living Plants)	0	0	0	0	0	0	0	0	0	0

INCOMING LOANS BY PURPOSE

	2003		2002		2001		2000		1999	
	Trans	Items	Trans	Items	Trans	Items	Trans	Items	Trans	Items
Total Loans Initiated	1,355	105,155	1,401	10,462,905	1,609	136,660	2,065	332,408	2,046	111,209
Exhibition	306	3,815	377	3,523	177	1,953	552	3,334	554	4,421
Study	680	75,756	573	10,156,388	833	90,170	898	236,262	831	84,588
Identification	140	19,165	250	52,492	317	23,098	316	81,518	300	18,544
Accession Consideration	217	6,208	190	250,307	265	19,908	273	9,930	341	3,392
Other Purposes	12	211	11	195	17	1,531	26	1,364	20	264



OUTGOING LOANS

The Smithsonian initiated 1,554 outgoing loan transactions involving 197,192 objects and specimens to nearly every state in the United States and to 43 countries around the globe. Seventy-two percent of new outgoing loans were for study purposes, twenty-three percent for identification, three percent for other purposes and two percent for exhibition.

The Natural Science community dominated the outgoing loan total with an overwhelming ninety-nine percent (or 193,673 objects and specimens). Eighty-three percent of this number is attributed to the Department of Systematic Biology, NMNH which loaned 108,246 specimens for study and 46,006 specimens for identification.

Distribution of outgoing loans by community reflects the following:

- The Art Community lent 2,661 objects through 187 transactions. Of that total, 99% were for exhibition purposes and 1% were for other purposes including consignment and conservation. Forty-nine percent of the objects lent for exhibition were reported by SAAM, followed by twenty-nine percent at NPG – mainly for traveling exhibitions while both museums are closed.
- Outgoing loans for the History Community totaled 858 objects through 108 transactions. Seventy-seven percent were for exhibition purposes, 14% were for other purposes, 6% were for study, and 3% were for identification.
- NMNH initiated the loan of 193,671 specimens in 1,258 transactions mostly for scientific research. These included the loan of meteorites to Northwestern University to help interpret data from the Near-Earth Asteroid Rendezvous Mission; coralline algae specimens to the Institute of Marine Studies; and 50 nematodes sent to a Russian scientist who is collaborating with an NMNH staff member.

During 2003, thirty loan transactions were initiated with Smithsonian Affiliates involving 305 objects and specimens.

Smithsonian Affiliation Loans

	Trans	Items	% Overall
NMNH	9	156	51%
NMAH	8	84	28%
NMAFA	1	25	8%
NPM	5	18	6%
HMSG	4	14	5%
SAAM	1	4	1%
NPG	1	3	1%
NASM	1	1	<1%
TOTAL	30	305	100%

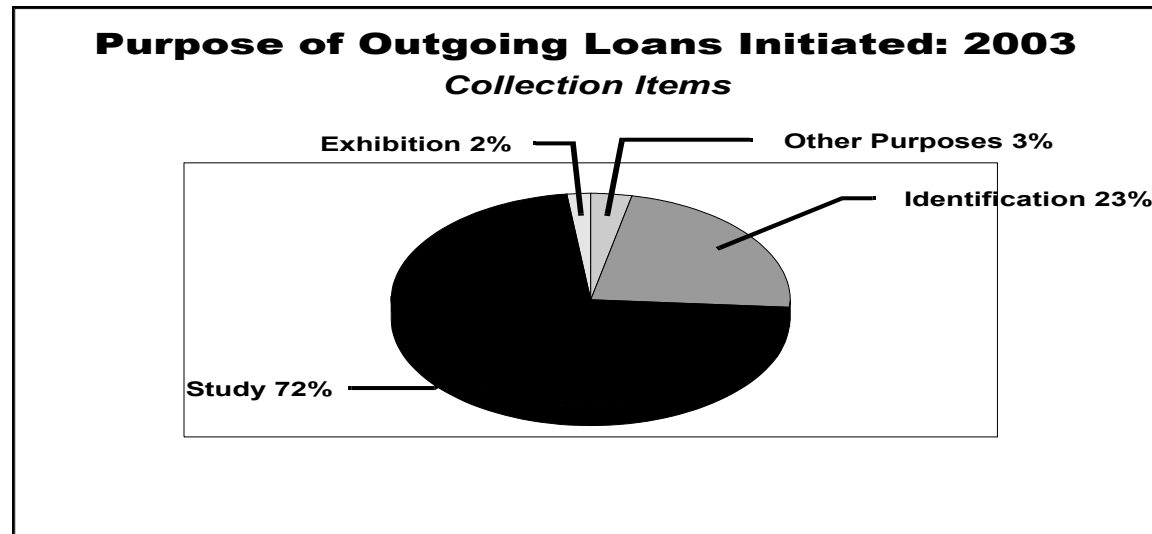
Currently there are 137 Smithsonian Affiliates in 39 states, the District of Columbia, Panama, and Puerto Rico.

OUTGOING LOANS

	2003		2002		2001		2000		1999	
	Trans	Items	Trans	Items	Trans	Items	Trans	Items	Trans	Items
Smithsonian Total	1,554	197,192	1,633	131,502	1,720	271,833	1,999	188,081	2,037	1,495,048
ART	187	2,661	182	2,573	208	2,382	140	1,750	186	1,685
AMSG	12	114	6	47	3	5	6	12	3	9
C-HNDM	36	339	28	232	11	47	11	35	13	61
FGA	3	10	0	0	0	0	1	1	3	21
HMSG	54	107	69	153	74	159	44	89	55	143
NMAfA	3	31	6	28	5	19	4	6	6	10
NPG	24	781	13	181	14	72	28	497	27	378
SAAM	55	1,279	60	1,932	101	2,080	46	1,110	79	1,063
CULTURAL HISTORY	108	858	107	3,410	103	4,414	129	1,159	143	5,506
AM&CAAHC	1	19	2	2	1	2	1	3	0	0
NASM	18	77	13	58	15	41	22	53	28	256
NMAH	66	541	76	1,081	66	846	94	1,036	83	606
NMAI	14	194	10	237	10	251	7	45	23	270
NPM	9	27	4	41	7	57	3	18	2	12
HSD (Artifacts)	0	0	2	1,991	3	3,216	1	1	4	4,357
OAHP	0	0	0	0	1	1	1	3	3	5
NATURAL SCIENCE	1,259	193,673	1,344	125,519	1,409	265,037	1,730	185,172	1,708	1,487,857
NMNH	1,258	193,671	1,342	125,515	1,404	265,032	1,728	185,169	1,705	1,487,854
NZP	1	2	2	4	5	5	2	3	3	3
HSD (Living Plants)	0	0	0	0	0	0	0	0	0	0

OUTGOING LOANS BY PURPOSE

	2003		2002		2001		2000		1999	
	Trans	Items	Trans	Items	Trans	Items	Trans	Items	Trans	Items
Total Loans Initiated	1,554	197,192	1,633	131,502	1,720	271,833	1,999	188,081	2,037	1,495,048
Exhibition	311	3,869	315	6,381	324	7,835	275	2,994	350	7,498
Study	1,100	140,587	1,102	96,272	1,227	257,499	1,512	164,744	1,560	1,480,126
Identification	38	46,037	38	20,114	34	4,157	42	17,010	45	1,369
Other Purposes	105	6,699	178	8,735	135	2,342	170	3,333	82	6,055



2003 Collection Statistics

Public Impact

<i>Geographic Distribution: Domestic</i>	<i>Incoming Loans</i>		<i>2003 Outgoing Loans</i>		<i>Incoming Loans</i>		<i>2002 Outgoing Loans</i>	
	<i>Trans</i>	<i>Items</i>	<i>Trans</i>	<i>Items</i>	<i>Trans</i>	<i>Items</i>	<i>Trans</i>	<i>Items</i>
Alabama	3	61	8	163	4	54	7	307
Alaska	6	154	6	218	5	10	3	138
Arizona	13	160	11	570	21	297	23	8,925
Arkansas	2	288	3	234	8	21	9	1,008
California	127	15,219	111	7,677	125	7,693	108	8,723
Colorado	14	503	23	5,739	16	1,682	10	1,403
Connecticut	11	4,327	16	323	17	592	14	2,443
Delaware	3	367	7	1,275	12	42	9	336
District of Columbia	55	676	99	908	75	642	132	4,969
Florida	65	1,492	45	1,864	38	10,001,777	60	2,298
Georgia	15	111	14	1,034	18	122	10	935
Guam	0	0	0	0	0	2	0	0
Hawaii	19	1,730	18	1,004	21	597	18	311
Idaho	6	1,950	6	563	5	365	2	953
Illinois	40	900	38	595	47	1,215	42	1,744
Indiana	5	388	11	471	5	33	12	189
Iowa	1	24	11	884	1	1	8	593
Kansas	12	930	20	2,928	8	361	17	289
Kentucky	4	110	0	0	8	1,833	6	245
Louisiana	9	2,598	17	912	9	536	27	7,521
Maine	14	28	4	88	7	9	7	2,562
Maryland	39	1,115	37	1,693	31	431	36	1,613
Massachusetts	51	1,094	32	2,124	49	477	25	1,789
Michigan	10	1,220	33	650	9	120	21	231
Minnesota	7	209	20	2,260	4	35	15	1,542
Mississippi	5	128	5	2,441	8	894	5	206
Missouri	11	241	22	2,564	32	625	27	5,012
Montana	7	668	5	399	0	0	8	948
Nebraska	0	0	4	149	0	0	2	24
Nevada	1	9	1	2	0	0	3	4
New Hampshire	4	245	2	6	5	23	0	0
New Jersey	13	89	10	675	20	126	4	17

2003 Collection Statistics

Public Impact

New Mexico	22	271	15	1,327	5	44	19	400
New York	147	4,679	78	8,652	205	1,900	112	2,881
North Carolina	54	693	75	14,488	16	354	35	2,473
North Dakota	4	579	8	5,295	2	36	4	645
Ohio	13	1,868	25	639	18	182	21	571
Oklahoma	8	245	10	93	6	521	3	79
Oregon	10	1,751	10	1,216	7	444	10	201
Pennsylvania	32	3,294	37	4,470	37	4,197	34	736
Puerto Rico	4	384	6	271	5	1,180	2	7
Rhode Island	3	21	1	2	2	4	5	92
South Carolina	13	101	10	342	13	153	7	440
South Dakota	0	0	1	1	4	144	1	29
Tennessee	15	3,022	10	523	16	8,013	17	910
Texas	32	2,231	51	2,039	32	3,845	48	1,074
Utah	14	5,610	16	1,259	4	703	8	436
Vermont	12	62	4	182	1	1	1	54
Virginia	17	3,581	33	2,286	33	533	29	653
Virgin Islands	1	2	0	0	0	0	0	0
Washington	22	6,198	16	719	17	42,024	21	572
West Virginia	6	10	6	64	3	3	5	1,610
Wisconsin	4	291	9	67	1	1	9	944
Wyoming	3	128	1	1	3	86	1	5
TOTAL	1,009	72,087	1,061	84,369	1,038	10,084,983	1,062	72,090

2003 Collection Statistics

Public Impact

Geographic Distribution: International

Incoming Loans

2003 Outgoing Loans

Incoming Loans

2002 Outgoing Loans

	Trans		Items		Trans		Items		Trans		Items	
Argentina	2	65	6	970	2	13	10	1,026				
Australia	22	1,812	28	1,533	24	958	16	229				
Austria	4	22	10	302	5	65	10	113				
Belarus	0	0	0	0	0	0	1	172				
Belgium	6	277	12	1,352	7	41	21	646				
Bolivia	3	98	0	0	2	70	0	0				
Brazil	2	382	11	550	16	339	10	353				
Canada	42	5,487	72	9,176	21	1,860	65	11,037				
Chile	1	1	3	119	5	141	2	88				
China, (People's Republic of)	3	9	0	0	1	125	1	86				
Columbia	4	126	1	27	5	929	12	698				
Costa Rica	14	2,466	5	240	11	6,839	1	36				
Cuba	0	0	1	1	1	4	6	602				
Czechoslovakia	1	250	7	345	0	0	12	747				
Denmark	5	1,131	7	208	4	34	1	315				
Dominican Republic	5	1,166	0	0	6	2,760	0	0				
Ecuador	0	0	0	0	1	249,136	0	0				
Finland	1	39	3	37	5	405	30	662				
France	15	484	24	475	16	281	11	28				
Germany	25	1,617	54	2,967	27	690	9	21				
Greece	0	0	0	0	1	2	0	0				
Honduras	0	0	0	0	1	3	0	0				
Hungary	3	23	0	0	0	0	4	315				
Indonesia	2	2,312	0	0	1	876	0	0				
Iran	1	9	0	0	1	137	0	0				
Ireland	0	0	0	0	2	5	0	0				
Israel	0	0	11	5,525	1	512	4	122				
Italy	1	9	0	0	10	167	14	348				
Jamaica	0	0	0	0	1	15	0	0				
Japan	8	64	24	1,896	8	100,020	43	602				
Mexico	10	1,756	16	657	9	892	19	2,016				

2003 Collection Statistics

Public Impact

Netherlands, The	6	285	14	395	19	522	15	457
New Zealand	3	51	6	157	8	3,135	8	339
Nicaragua	0	0	0	0	0	0	0	0
Norway	3	44	8	360	1	2	5	29
Panama	4	45	2	27,480	0	0	3	49
Peru	1	4	1	345	2	12	1	4
Poland	2	20	14	5,687	0	0	16	1,853
Portugal	1	3	3	47	3	41	0	0
Russia	3	42	13	5,278	3	46	11	1,437
South Africa	8	527	6	21	10	66	7	988
Spain	4	19	18	166	8	31	16	161
Sweden	5	95	13	2,279	5	312	15	1,097
Switzerland	7	262	7	572	9	2,294	13	1,055
Turkey	2	195	0	0	1	217	2	2
United Kingdom	31	702	55	42,009	48	642	62	22,631
Venezuela	3	59	2	5	1	278	2	341
Zimbabwe	0	0	0	0	0	0	0	0
Other	21	10,712	26	1,626	21	2,802	89	8,308
TOTAL	283	32,638	483	112,807	333	377,719	567	59,013

COLLECTIONS-BASED RESEARCH

FOR EXAMPLE: NATIONAL AIR AND SPACE MUSEUM

Research has been an essential component of the Smithsonian since its conception. At the National Air and Space Museum, for example, the more than 45,000 artifacts and 10,000 cubic feet of archival materials serve as an intellectual base for scholarship, exhibition, and education in the areas of aviation and space flight and their related technologies. The collections are the largest and most diverse of their kind in the world and document the history of civilian and military aviation, ranging from the Wright brothers' flyer to the gondola from the Breitling Orbiter, which made the first successful nonstop balloon flight around the world in 1999. Similarly, the space collection consists of models, engineering test units, and objects that have returned to Earth. Notable parts of the space collection are the Apollo command modules, the Saturn V rocket, prototypes and backups for the Viking Mars Landers and Voyagers spacecraft, and the space shuttle Enterprise.

- Since the National Aeronautics and Space Administration (NASA) retired the space shuttle test vehicle Enterprise in 1985 and transferred it to the National Air and Space Museum for preservation and eventual display, the shuttle has remained in storage at Washington's Dulles International Airport, but heavily visited for research. NASA has used Enterprise more than ten times, each time with an agenda of scientific and engineering questions. Within the past year, Enterprise has supported two important technical inquiries.

The first was the investigation of the Columbia space shuttle accident. Because Enterprise was the near twin to Columbia, NASA borrowed panels from the leading edges of Enterprise's wings to use in the foam impact tests replicating the probable cause of damage to Columbia's wing. Hardware from Enterprise helped investigators refine the geometry of the test rig and the parameters of the firings.

Recently a team of chemists and materials specialists visited Enterprise to inspect and sample nonmetallic materials that are used throughout the vehicle, especially varieties of rubber and plastic. Now thirty years old, Enterprise is a valuable asset for studies of the natural aging of these important synthetic materials and their reliability for longer use in the shuttles in the fleet. Currently NASM restoration specialists are cleaning Enterprise for permanent display and storage at the Steven F. Udvar-Hazy Center to protect this important artifact for continuing service to the nation's space program.

- From April to September 2003, scientists from NASA Goddard Space Flight Center and the European Coordinating Facility of the Space Telescope Science Institute used lamps from the Hubble Faint Object Spectrograph (FOS), on display in the *Exploring the Universe Gallery* at NASM to determine the long-term spectral output of the lamps to calibrate data from the space telescope in orbit. The group disassembled a significant part of the FOS in April, removing the lamps, but not the associated electronics because of difficulty of access. The lamps were taken back to the National Institute of Standards and Technology, evaluated, and returned to NASM in September along with an appreciative ceremony for allowing access to the artifact. The Space Telescope European Coordinating group is evaluating the light characteristics, which will help determine the calibration needed for study of such objects as black holes.

ARCHIVAL RESEARCH AND REFERENCE

Archival repositories continue to make collection holdings readily available to researchers and the general public through research and reference service, finding aids, duplication, microfilm, reproduction, audio recordings, and loans. Reference is the process of making information about or from the holdings of an archival repository available to its users.

During FY 2003, Smithsonian archival units responded to 38,321 reference requests and research visits. Of that total, 58% of the requests were written correspondence (letters, fax, and e-mail), 25% were by phone, 15% of the requests were daily visits, and 2% were through interlibrary loan requests.

REFERENCE TRANSACTIONS

	2003	2002	2001	2000	1999
Smithsonian Total	38,321	37,937	36,504	42,531	49,537
ARCHIVES					
AAA	8,282	8,926	10,346	12,991	10,725
AC	9,533	7,143	4,323	6,180	5,516
CEROS	1,561	1,959	1,467	1,227	1,186
CFCH	N/R	N/R	1,762	N/R	N/R
CWPP	N/A	N/A	N/R	84	N/R
EEPA	N/R	678	762	761	568
FSGA	445	475	813	763	696
HSD	633	733	659	556	824
HSFA	2,071	2,239	2,214	2,174	1,481
NASA	8,403	7,729	7,999	7,588	8,792
NAA	2,086	2,146	1,677	6,749	15,803
NMAI	N/R	N/R	N/R	N/R	N/R
SIA	5,307	5,909	4,482	3,458	3,946

The range and diversity of research transactions are suggested but hardly encompassed by the following examples:

Archives of American Art

In the preparation of the following publications, authors conducted significant research into AAA holdings:

Debating American Modernism: Stieglitz, Duchamp, and the New York Avant-Garde by Debra Bricker Balken; with an essay by Jay Bochner (New York: American Federation of Arts: D.A.P./Distributed Art Publishers, 2003).

The Park Avenue Cubists: Gallatin, Morris, Frelinghuysen and Shaw by Debra Bricker Balken and Robert S. Lubar (New York: Grey Art Gallery, New York University, 2003).

Willard Metcalf (1858-1925): Yankee Impressionist by Richard J. Boyle, Bruce W. Chambers and William H. Gerds (New York: Spanierman Gallery, 2003).

Northwest Mythologies: The Interactions of Mark Tobey, Morris Graves, Kenneth Callahan, and Guy Anderson by Sheryl Conkelton and Laura Landau (Tacoma: Tacoma Art Museum, Seattle in association with University of Washington Press, 2003).

Out of the Shadows: Helen Torr, A Retrospective by Anne Cohen DePietro (Huntington, N.Y.: Heckscher Museum of Art, 2003).

Artists on the Left: American Artists and the Communist Movement, 1926-1956 by Andrew Hemingway (New Haven and London: Yale University Press, 2002).

La nouvelle Abstraction Americaine, 1950-1970 by Claudine Humblet (Skira, 2003).

Winslow Homer, Artist and Angler by Patricia Junker with Sarah Burns; with contributions by William H. Gerds, Paul Schullery, Theodore E. Stebbins Jr., David Tatham (New York: Thames & Hudson; Fort Worth, Texas; Amon Carter Museum; San Francisco, Calif. Fine Arts Museums of San Francisco, [Dec] 2002).

Marsden Hartley by Elizabeth Mankin Kornhauser (Hartford: Wadsworth Atheneum Museum of Art in association with Yale University Press, New Haven, [Dec] 2002).

Hayley Lever (1876-1958) by Carol Lowrey (New York: Spanierman Gallery, 2003).

Paris and Tryon: George C. Aid (1872-1938) and His Artistic Circles in France and North Carolina by Michael J. McCue (Columbus, N.C.: Condar, 2003).

Will Barnet: Painting Without Illusion: The Genesis of Four Works from the 1960s by Patrick J. McGrady and Charles V. Hallman (University Park, Pa.: Palmer Museum of Art, the Pennsylvania State University, 2003).

Aftershock: The Legacy of the Readymade in Post-War and Contemporary American Art by Francis M. Naumann and Thomas Girst (New York: Dickinson Roundell, 2003).

Conversion to Modernism: The Early Work of Man Ray by Francis M. Nauman (New Brunswick, New Jersey and London: Rutgers University Press, 2003).

Robert Smithson: Learning from New Jersey and Elsewhere by Ann Reynolds (Cambridge, Mass.: MIT Press, 2003).

Marsden Hartley: New Mexico, 1918-1920: An American Discovering America by Gail R. Scott (New York: Alexandre Gallery, 2003).

Challenge of the Modern: African-American Artists, 1925-1945 by Lowery Stokes Sims (New York: Studio Museum in Harlem, 2003).

In and Out of California: Travels of American Impressionists by Deborah Epstein Solon; with an essay by Will South (Laguna Beach, Calif.: Laguna Art Museum, 2002).

The Heart of the Matter: The Still Lives of Marsden Hartley by Bruce Webber (New York: Berry-Hill Galleries, 2003).

Archives Center, NMAH

Laurie Kahn-Leavitt, *Tupperware!* (PBS, American Experience, February 9, 2004).

Krystyn Moon, *Yellowface: Creating the Chinese in American Popular Music and Performance* (Rutgers University Press).

David Weinstein, *DuMont (1850s-1920s): The Forgotten Network and the Birth of American Television* (Temple University Press).

Kathleen Broome Williams, *Rear Admiral Grace M. Hopper* (Naval Institute Press, forthcoming).

Marilyn Friedman, *Selling Good Design* (Rizzoli International Publications, forthcoming).

Mark Pendergrast, *Mirror, Mirror: A History of the Human Love Affair with Reflection* (Basic Books).

Timothy Gilfoyle, "Street-rats and Cutter-Snipes: Child Pick Pockets and Street Culture in NY 1850-1900." *Journal of Social History*.

Walter Friedman, *The Birth of a Salesman: The Transformation of Selling in America* (Harvard University Press).

Barry Shank, *A Token of My Affection: Greeting Cards and American Business Culture* (Columbia University Press, forthcoming).

Paul Boyer, *The Enduring Vision* (Houghton Mifflin, forthcoming).

Pavel Jurik, *The Future of Money* (Grada Publishing A.S., forthcoming).

Kelly Schrum, *Some Wore Bobby Sox: The Emergence of Teenage Girls' Culture, 1920-1945* (Palgrave Macmillan, 2004).

Travel Channel, *Donut Crazy* (one hour special, forthcoming).

Center for Electronic Research and Outreach Services, NPG

NPG curator, Ellen Miles, and assistants continued research for the upcoming Gilbert Stuart exhibition that will be shown at the Metropolitan Museum of Art and the National Gallery of Art.

Nicholas Penny, Senior Curator of Sculpture at the National Gallery of Art, researched profile reliefs of George Washington and Lydia Tedrick, Assistant Curator at the White House, researched portraits of John Tyler and his wife.

Many other researchers used the resources of the Catalog of American Portraits for numerous exhibitions, publications, and programs including *The New Dictionary of National Biography*, published by Oxford University Press; an exhibition on the Louisiana Purchase at the Arkansas Visitor Center; a biography of

the artist Francis A. Lathrop for the Robert Brady Museum, Cuernavaca, Mexico; an exhibition on Charles Demuth at the Amon Carter Museum; a PBS documentary on the History of African-Americans in Minnesota; a book on Edgar Allan Poe, Cherona Publishers, Moscow, Russia; an upcoming publication, *Picturing Power: Portraiture and its Uses in New York Commerce*; an upcoming publication on the American Revolutionary War; an article on artist Louis Glanzman; and a publication for the Naval War College.

CEROS staff suggested a selection of American and British grand manner portraits to Walt Disney Films for the motion picture *Haunted Mansion* starring Eddie Murphy.

Freer Gallery of Art and Arthur M. Sackler Gallery Archives

Margaret MacDonald of the Centre for Whistler Studies, University of Glasgow, consulted the Charles Lang Freer Papers in research related to the Whistler Centre's on-line publication of Whistler correspondence.
<http://www.whistler.arts.gla.ac.uk/correspondence/index.htm>.

Merry Foresta, of the Smithsonian Institution Center for Photography, carried out research related to her book, *At First Light: Photography and the Smithsonian*. Collections viewed

include the Henry and Nancy Rosin Collection of Early Photography of Japan; Cixi, Empress Dowager of China; photographs by Antoin Sevruguin found in the Myron Bement Smith Collection Photographs; and the Charles Lang Freer Papers. Individual photographs by Felice Beato and Charles Leander Weed were also viewed.

Ann Gunter, curator at AMSG/FGA used the Charles Lang Freer Papers in preparation for her new book, *A Collector's Journey: Charles Lang Freer and Egypt*.

Roundtable Press Inc., used images from the Henry and Nancy Rosin Collection of Early Photography of Japan, 1860 – ca. 1900, in their publication of the companion volume to the motion picture, *The Last Samurai*.

Archives of American Gardens, HSD

Publications and programs resulting from research of AAG collections included:

A doctoral thesis, by a Smithsonian Haupt Fellow in Horticulture, “Women Landscape Architects from 1890 to 1940: Artists of Difference.”

A series of articles written by members of the Garden Club of America for its *Bulletin*, distributed to approximately 17,000 members.

The exhibit *Picturing Hampton Gardens: A 350 Year Legacy* and accompanying catalog by Rizzoli Publishing organized for the Guild Hall Museum in East Hampton, New York.

Article on recreating period gardens in the March/April 2003 issue of *Old-House Journal*.

A segment on cable television HGTV’s “Great American Gardens” series about the Enid A. Haupt Garden which aired in February 2003.

Biographical information for the next volume of *Pioneers of American Landscape Design*.

A historic landscape report for an estate in Montecito, California.

HSD images used for Smithsonian outreach initiatives included:

A brochure funded by the Smithsonian Women’s Committee highlighting the HSD Garden Furnishings and Horticultural Artifact Collections.

A brochure funded by the Smithsonian Women’s Committee promoting the Heirloom Garden at NMAH.

The annual orchid show – *Natures Jewels: A Living Exhibit of Orchids and Butterflies* – co-sponsored by the HSD and the United States Botanic Garden and exhibited in the A&I Building.

Secretary’s message in the November 2002 issue of *Smithsonian* magazine that focused on the work of the Horticulture Services Division.

“Around the Mall” article in the April 2003 issue of *Smithsonian* magazine that described the Posy Holder Collection.

An interpretive display panel for the Smithsonian Castle Information Center.

An in-service training session, featuring a lecture on historic garden furnishings, “Moving the Inside Out or Bringing the Outside In: 19th Century Garden Furniture at the Smithsonian Institution.”

Human Studies Film Archives, NMNH

The HSFA hosted its first postdoctoral fellow, Dr. Amy Staples, who recently graduated from the University of California, Santa Cruz with a Ph.D. in History of Consciousness. While at the HSFA, Dr. Staples researched early expeditionary films sponsored by the Smithsonian Institution and other scientific institutions, museum and universities. She made several presentations during the year which included a talk at the June meeting of the Smithsonian's Material Culture Forum "Magic, Science, and Technology: the Stirling Expedition to Netherlands New Guinea, 1926;" a departmental colloquium on expeditionary film as a 'collecting practice;' and a presentation at the American Museum of Natural History in New York on the expeditionary films of Edward Queeny.

David Valillee, a doctoral candidate in the Art History Department of the City University of New York, is engaged in research for his dissertation on the Aztecs of Mesoamerica and the Lakota of the Great Plains. The thesis will present a comparison and analysis of what Valillee considers to be remarkable similarities between certain ceremonies practiced by these otherwise geographically remote groups. The HSFA has four film collections dating from the 1930s which document the Lakota Sioux and Cheyenne Sun Dance. In addition, the HSFA has a collection of oral history audio tapes generated by the NMNH Department of Anthropology in conjunction with the museum's Repatriation Unit on the topic of the Cheyenne Sundance including a recorded commentary by members of the Cheyenne community of the HSFA 1930s footage.

HSFA supplied moving image materials to students from George Washington University's Visual Anthropology course for their final projects presenting visual analysis of representations of cultural groups. This cooperative effort on the part of HSFA staff in providing the duplicate materials for classroom use by the GWU students represents a first for HSFA.

Tony Reichardt, a freelance writer for *Air and Space Magazine*, conducted research on the early use of airplanes on expeditions. Reichardt examined footage from several collections, including Matthew Stirling's films made in New Guinea in the mid-1920s; experimental flight technology (i.e. hydroplanes); and "first contact" encounters with indigenous peoples in New Guinea and the Amazon.

Nick Deocampo, a documentary filmmaker, film historian and founding director of the Mowelfund Film Institute in Manila conducted research at archives around the globe to locate moving image material from the Philippines with the hope of publishing a book on the history of film in the Philippines. He found several notable collections at the HSFA.

Dr. David Lubell used HSFA moving images from the Beloit/Logan expedition to help analyze skeleton excavations conducted on that expedition and for reconstruction of mortuary patterns.

Graduate student Nadia Shihab used HSFA amateur moving images of Iraq to conduct an oral history project with her grandparents in capturing the Iraqi immigrant experience.

Film and video productions using HSFA images include:

When the Spirit Moves, a documentary tracing the African origins of American jazz dancing produced by the U.S. Department of State and distributed overseas in approximately 30 countries.

The Blues, a PBS documentary series produced by Martin Scorsese.

The World of American Indian Dance, a documentary that aired on CBS Television.

A Seat at the Table: Struggling for American Indian Religious Freedom, a documentary by Dreamcatchers productions.

Spirit of the Game, a Canadian documentary by Annie Frazier Henry, exploring the world of indigenous games of North America.

National Air and Space Archives

Capsule 5, Manuel B (French language textbook), published by Modulo Editeur.

Industrial Design: A Practicing Professional (book) by Philip H. Stevens, published by Hard Pressed Publishing.

Women and the Machine: Representations from the Spinning Wheel to the Electronic Age (book) by Julie Wosk, published by Johns Hopkins.

“Timelab 2000, 'First Passenger'” television segment.

Milestones: The First Century of Flight (book) by F. Clifton Berry, Jr., published by Howell's, Inc.

Black Wings (NASM website).
www.nasm.si.edu/interact/blackwings/history/index.html

“Space Weapons, Earth Wars” (report) by Robert Preston, published by RAND.

Eject! The Complete History of U.S. Aircraft Escape Systems (book) by Jim Tuttle, published by Motorbooks International.

Wood & Canvas Heroes: Awards of the Distinguished Flying Cross and Other Airmen Stories 1927 to December 1941

by James Patrick, published by James W. Patrick Publishing.

First Flight: The Wright Brothers and the Invention of the Airplane (book), published by the National Park Service.

Elements of Spacecraft Design (book) by Charles D. Brown, published by the American Institute of Aeronautics and Astronautics.

Earth in Space (book), published by National Science Resource Center.

Unlocking the Sky: Glenn Hammond Curtiss and the Race To Invent the Airplane (book) by Seth Shulman, published by HarperCollins.

History of Stafford County (postcard for historical postcard series).

The Inventors' Times: Real-Life Stories of 30 Amazing Creations (book) by Dan Driscoll and James Zigarelli, published by Scholastic/Tangarine Press.

Lindbergh: Flight's Enigmatic Hero (book) by Von Hardesty, published by Tehabi Books.

Pioneer Aviators of the World: A Biographical Dictionary (book) by Hart Matthews, published by McFarland & Co.

2003 Collection Statistics

Public Impact

ASM Handbook: Volume I: Failure Analysis and Prevention (book) by James J. Sutti and W.J. McBrine, published by ASM International.

Border Air Museum (exhibitory).

Louise Thaden (exhibit), Rogers Historical Museum.

“Harriet Quimby: Forste Cetificerede Aviatrice, USA” (article) by Dorthe Gert Simonsen, published in anthology *Historie og Historiogarfi Denmark Europa USA*, University of Copenhagen.

Wings Above the Arctic: A Photographic History of Arctic Aviation (book) by Bruce McAllister, published by Roundup Press.

The Wright Brothers and the Invention of the Aerial Age (book) by Peter Jakab and Tom Crouch, published by National Geographic Society.

“Lord MPD Involved in Historical Restoration Project” (article) by Lisa Manendo in *Lordfacts*, internal newsletter of the Lord Corporation.

“Islamitische wetenschap, voorjaar 2003.” Website associated with university course on Islamic Science, University of Utrecht, the Netherlands: <http://www.math.uu.nl/people/hogend/iw.html>

Bessie Coleman: Daring to Fly (book), by Sally M. Walker, published by Carolrhoda Books, a division of Lerner Publishing Group.

“Big Dreams & Flying Machines” (article), published in *Maryland Research*.

“2003 Aerospace Short Courses” (brochure), University of Kansas.

“Celebrating 100 Years of Flight,” *Aviation Week* 2003 Calendar.

Hitler's V-Weapons Sites (book) by Alex Philip Henshall, published by Sutton Publishing.

“Interpreting the Recent Past in Historic Museum Exhibitions” (graduate research paper) by Dawn D. Lawson.

Engineering Philosophy (book) by Louis L. Bucciarelli, published by Delf University Press, Netherlands.

2005 Grade 6 Math (book), published by Houghton Mifflin.

Spirit of America: Our People: The Wright Brothers (book) by Andrew Santella, published by The Child's World.

“Century of Flight” (commemorative magazine issue), published by PRIMEDIA Special Interest Publications.

African American Pilots: Pioneers with Wings, (article) by Betty Debnam, published in the Washington Post Mini Page.

Velocity, Inc. experimental aircraft kit (advertising).

Aviation themed “Monopoly” game.

“Freedom Flight” (article) by Michael Laris, *Washington Post Magazine*.

“Former Tuskegee Airman Is Living Link to History” (article), published in *Laidlaw Education Services Focus Employee Newsletter*.

The Messenger Salutes Tuskegee Airman James Thomas Mitchell, Jr. (library display).

2003 Collection Statistics

Public Impact

National Inventors' Hall of Fame (plaque and video).

National Inventors Hall of Fame publication, ceremony video and website.

“Freedom Flight” (web page), *Washington Post Magazine*.

100 Years of Flight (1903-2003), exhibit to include online component, Imperial War Museum.

NX-2 ANP: Convair Nuclear Propulsion Jet (book) by David M. Carpenter, published by Calendar Promotions.

“The Pride of Newark” (article), published in *Air & Space Magazine*, May 2003.

A Tale of Two Brothers: The Story of the Wright Brothers (book) by Judith A. Dempsey, published by Trafford Publishing.

“A Century of Powered Flight, 1903-2003” and “Aviation + Electronics = Avionics: Parallel Developments” (special issue), *Aerospace and Electronics Systems Magazine (IEEE Journal)*.

Letters Department feature, *Sports Illustrated*.

Black Wings, exhibit at Sinclair Community College.

“Teamwork Helps New Book on Airborne Innovation Take Wing” (article) by Janice Kaplan, published in spring issue of *Smithsonian Research Reports*.

United States Government Manual 2003-2004 (book), published by NARA, Federal Register.

The History & Local Post of Rattlesnake Island (book) by John Wells, Able Publishing, UK.

“The Wright Stuff” (article), *Hemispheres Magazine*.

“Legacy of Flight” (article), published in *Aviation History*.

“100 Years of Flight” (article), published in *Parade Magazine*, June 29, 2003.

Sur Mars: Le Guide du Touriste Spatial (book) by Pierre Lagrange and Helene Huguet, published by EDP Sciences.

“Timeline: 100 Years of Powered Flight” (article), published in *Celebrating Chemistry*, 2003.

“Celebrating Chemistry” (website), The American Chemical Society.

“Heroes of the Sky” (article), published in *Humanities*, National Endowment for the Humanities.

“The National SBIR Conference...A World of Opportunities!” (National Science Foundation sponsored conference mailer).

National Anthropological Archives, NMNH

In conjunction with the Alaska Collections Project from the Anthropology Department's Arctic Studies Program, members of the Aleut tribe undertook a visit to work with Henry Wood Elliott artwork.

As part of the National Museum of the American Indian's Visiting Artists Program (Community Outreach Office), the NAA hosted half a dozen artists to look at materials related to their work and cultural lives. This included Melissa Peterson, a Native American community scholar and member of the Makah community (Washington State) who did research on tribal and family history as well as changes in Makah basketry after 1855.

Research and identification of ethnobotanical specimens in the John P. Harrington Papers by Dr. M. Kat Anderson and Dr. David Kiel of the University of California, Davis.

Gretchen Schafft, from American University, conducted research using the Institut für Deutsche Östarbeit Records to analyze the role of German physical anthropologists in the Third Reich as well as the reaction of American anthropologists to the work of their German counterparts on behalf of the Reich. Dr. Schafft's research resulted in the presentation of several scholarly papers and the publication of "Scientific Racism in the Service of the Reich: German Anthropologists in the Nazi Era" in Alexander L. Hinton's

Annihilating Difference: The Anthropology of Genocide 2003. Her research will be published in the forthcoming book, *From Racism to Genocide: Anthropology in the Third Reich* (2004).

Frank Goodyear, National Portrait Gallery, researched images for a book, *Red Cloud: Photographs of a Lakota Chief* (2003).

Paula Richardson Fleming, National Anthropological Archives, researched images for a book covering the Smithsonian's first photographic exhibit entitled, *Native American Photography at the Smithsonian: The Shindler Catalog* (2003).

Publication of the National Museum of the American Indian, *The Native Universe* (2004).

At least 15 exhibitions showcased images from the NAA collection including displays at such institutions as the Eiteljorg Museum, Lewis and Clark Historic Trail Interpretive Center, Manitoba Museum, Oregon Historical Society, Pueblo Grande Society, Saint Louis Art Museum, San Diego Museum of Man, and Wellcome Trust (UK).

Smithsonian Institution Archives

Highlights of researchers using Smithsonian Institution Archive records included:

Michael Dooley, SIA Fellow, consulted records for his dissertation on American ornithological art and the bird conservation movement.

Heather Ewing, SIA Fellow, consulted records for her ongoing research on the life of James Smithson.

Christine Keiner, SIA Fellow, consulted records for a post-doctoral project entitled, "Post-Earth Day Environmental Science and Politics at the Smithsonian."

Tom Scheinfeldt, SIA Research Associate, consulted SIA records for a project on the history of science, 1920-1940.

Senior curator for photography, Merry Foresta, investigated and reproduced SIA photographic collections for her book, *At First Sight: Photography and the Smithsonian*.

Smithsonian Traveling Exhibition Service staff conducted department research for the SITES exhibition database.

Several reproductions of SIA images were used in "From the Attic" a monthly feature of *Smithsonian Magazine*.

Benjamin Hufbauer, University of Louisville, consulted records for a forthcoming book on the history of American presidential commemoration since 1900.

Kathleen Curran, Trinity College, consulted records for a project on the architectural history of the Smithsonian's Arts & Industries Building.

Marcel LaFollette, an independent researcher, consulted SIA records for "A History of the Representation of Science in Early Radio and Television in the United State."

Reproductions of SIA material relating to Charles Wilkes and the U.S. Exploring Expedition were used in the exhibition, *High Seas to High Shoals*, jointly curated by the Schiele Museum and the Gaston County Museum, North Carolina.

The DC Heritage Tourism Coalition used photographs from SIA's collections as part of their newly developed African American Heritage Trail tour for Washington, DC.

Monographs using SIA resources included:

Felipe Arocena. *W. H. Hudson: Cultural Frontiers in His Life and Work*.

John C. Brandt and R. D. Chapman. *Introduction to Comets*, 2nd edition.

Nina Burleigh. *The Stranger and the Statesman: James Smithson, John Quincy Adams, and the Making of America's Greatest Museum: The Smithsonian*.

Mabel H. Cabot. *Vanished Kingdoms: A Woman Explorer in Tibet, China and Mongolia, 1921-1925*.

David A. Clary. *Rocket Man: The Life and Legends of Robert H. Goddard, American Pioneer of Space Flight*.

Kathleen Curran. *The Romanesque Revival: Religion, Politics, and Transnational Exchange*.

Jennifer Dussling. *The Skeleton in the Smithsonian*.

Robert B. Edgerton. *Troubled Heart of Africa: A History of the Congo*.

Michael A. Elliott. *The Culture Concept: Writing and Difference in the Age of Reason*.

Lois M. Fink. *The Smithsonian American Art Museum: 150 Years of Art and Politics*.

Merry Foresta. *At First Sight: Photography and the Smithsonian*.

Alice R. Hoveman. *Journey to Justice. The Wintu People and the Salmon.*

David Owen. *Thylacine: The Tragic Tale of the Tasmanian Tiger.*

Nathaniel Philbrick. *Sea of Glory: America's Voyage of Discovery, the U.S. Exploring Expedition, 1838-1842.*

Don Rittner. *A to Z of Scientists in Weather and Climate (Notable Scientists).*

Suzanne Rodriguez. *Wild Heart, a Life. Natalie Clifford Barney's Journey from Victorian America to Belle Epoque Paris.*

Marc Rothenberg, Kathleen W. Dorman, Frank R. Millikan, and Deborah Y. Jeffries, editors. *The Papers of Joseph Henry: Volume 9: The Smithsonian Years: 1854-1857.*

Royal Tyrrell Museum of Paleontology. *The Land Before Us: The Making of Ancient Alberta.*

Noah K. Strycker, editor. *Early Ornithology in Malheur County, Oregon.*

James Tobin. *To Conquer the Air: The Wright Brothers and the Great Race for Flight.*

Ludger Wimmelbucker. *Kilimanjaro – A Regional History. Volume One: Production and Living Conditions, c. 1800-1920.*

Articles that appeared in edited works included:

Joe Cain. "Launching the Society of Systematic Zoology in 1947," in *Milestones in Systematics: The Development of Comparative Biology*, D. M. Williams and P. L. Francis, editors.

Pamela M. Henson. "Explorations and Expeditions," in *At First Sight: Photography and the Smithsonian*, edited by Merry A. Foresta, Smithsonian Institution Press, 2003.

Articles that appeared in journals included:

Peter J. Adam. "New Information on the Natural History, Distribution, and Skull Size of the Extinct West Indian Monk Seal, *Monachus Tropicalis*."

Bruce M. Beehler, Roger F. Pasquier, and Warren B. King. "In Memoriam: S. Dillon Ripley, 1913-2001."

David Chiszar, Roger Conant, and Hobart M. Smith. "Observations on the Rattlesnake *Crotalus atrox* by Berlandier, 1829-1851."

Hilmar W. Duerbeck, et al. "Interplay of Periodic, Cyclic and Stochastic Variability in Selected Areas of the H-R Diagram."

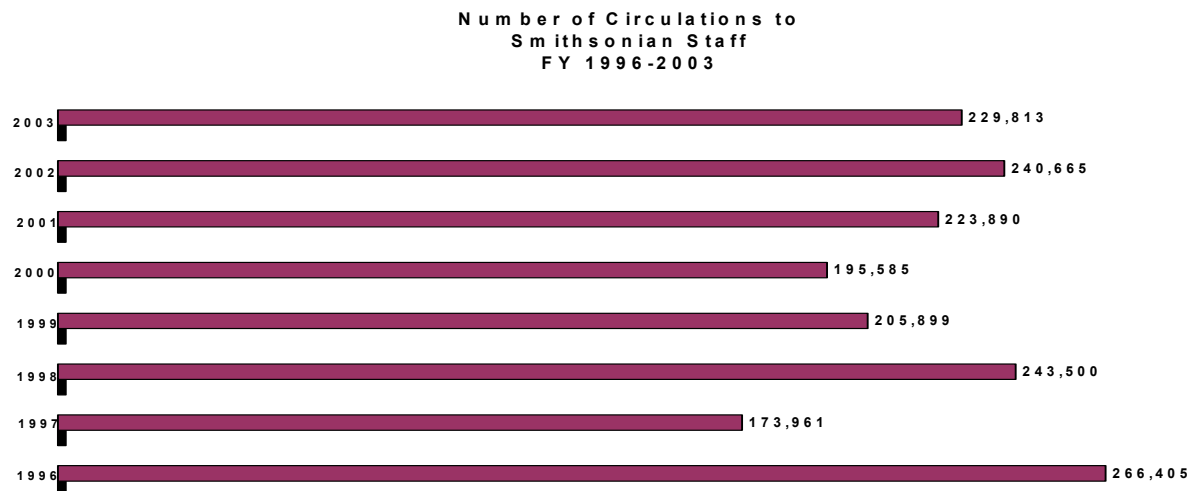
J. Richard Dunn. "Seventy-Five Years 'A Gathering': The Fish Collection at the University of Washington, 1928-2002."

SIL INTERLIBRARY LOANS

2003 Interlibrary Loans	Trans	Titles Provided	Trans	Titles Received	Total Transactions	Total Interlibrary Loans
SIL	14,803	12,706	4,983	4,983	19,786	17,689

The Smithsonian Institution Libraries offers information resources to Institution staff, visiting researchers, and the public through on-site collections and electronic services. The library catalog is on the Internet, accessible through the Smithsonian Institution Research Information System (SIRIS), and numerous volumes are available to the public through interlibrary loan.

During FY 2003, Smithsonian Institution Libraries conducted interlibrary loans of 17,689 titles and 42,000 reference transactions from library users from every U.S. state, the District of Columbia, Guam and the Virgin Islands. SIL Branch staff provided Smithsonian staff 31,008 titles through 229,813 circulation transactions. The Libraries loaned 77 items to exhibitions including: *An Odyssey in Print: Adventures in the Smithsonian Libraries*; *Smithsonian Institution Libraries in the Service of Science*; *Wonder Bound: Rare Books on Early Museums*; and *Explore the Universe*.

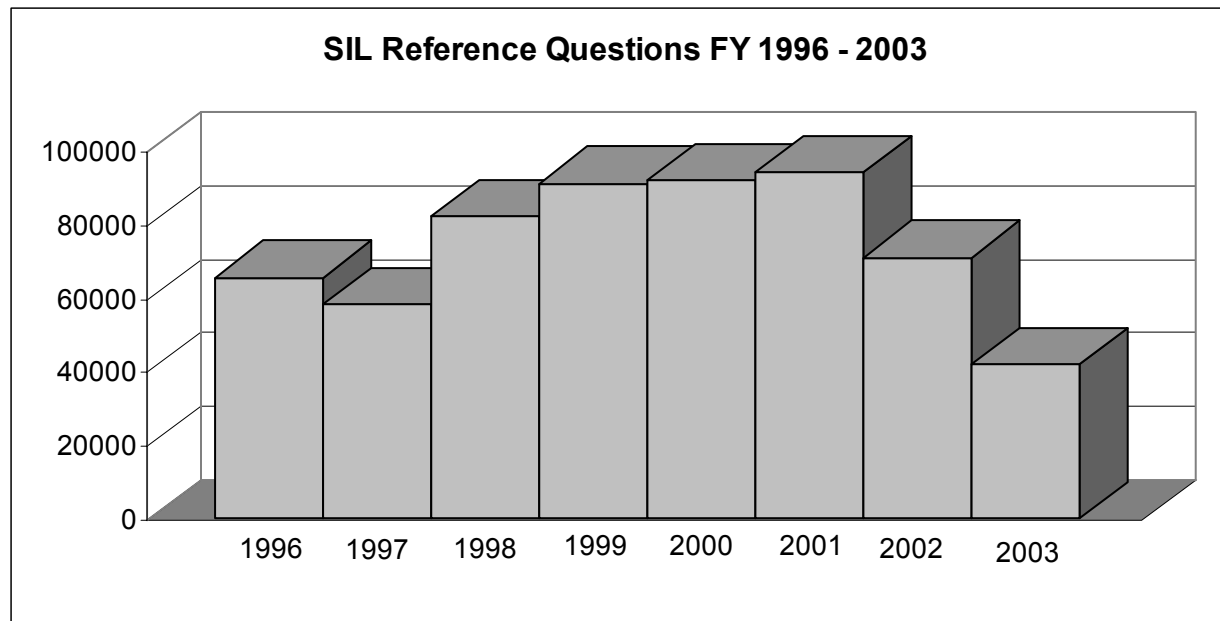


Top 10 Libraries from which SIL borrows

1. Library of Congress	1,019
2. Department of Agriculture	649
3. National Library of Medicine	613
4. Georgetown University	216
5. John Hopkins University	210
6. University of Maryland at College Park	204
7. University of Delaware	193
8. George Washington University	113
9. U.S. Geological Survey	95
10. American Museum of Natural History, NYC	75

Top 10 Libraries Borrowing from SIL

1. University of Maryland at College Park	329
2. John Hopkins University	203
3. U.S. Fish & Wildlife Service, Shepherdstown, WV	201
4. George Washington University	173
5. Environmental Protection Agency	116
6. University of Calgary	85
7. U.S. National Institute of Health	73
8. U.S. Fish & Wildlife Service Carlsbad, CA	65
9. University of Louisiana	62
10. American Museum of Natural History, NYC	58



SMITHSONIAN INSTITUTION TRAVELING EXHIBITION SERVICE (SITES)

During FY 2003, the Smithsonian Institution Traveling Exhibition Service (SITES) circulated 57 exhibitions containing 2,322 objects to 210 exhibitors in the United States, Canada, and Australia. Thirty-seven of these exhibitions were based on Smithsonian collections or research. Ten exhibitions opened and eleven ended their tours, which included 398 objects borrowed from 21 lenders, and 391 objects returned to 8 lenders.

In keeping with the mission to bring the Smithsonian to the nation, SITES renewed its commitment to circulating exhibitions from the national collections. Among the ten exhibitions with tours originating in FY 2003, seven represent Smithsonian collections and research.

Further enhancing SITES' commitment to reaching a wider audience for its exhibitions, collaborations beyond the National Mall continued to enable SITES to reach communities across the nation that do not otherwise have access to Smithsonian collections and research. The ongoing partnership with the Federation of State Humanities Councils known as *Museum on Main Street (MoMS)* circulated multiple copies of four small exhibitions to rural cultural centers with limited resources, staff, budgets, and space.

Exhibitions in the collaboration consist of free-standing units that can be arranged in a variety of configurations. The units require no tools or hardware to assemble and come in lightweight polyurethane crates with wheels and handles for easy mobility. Each contains some objects purchased for the exhibition, as well as graphic panels. Exhibitors in the program receive training in a wide range of museum professions: collections management; exhibition preparation and installation; interpretation, program planning and education outreach; and, media relations and events management. SITES staff conduct workshops in each state and

provides exhibitors with planning materials, docent training manuals and curriculum guides.

During this reporting period:

- Three copies of *Barn Again! Celebrating an American Icon*, based on an exhibition originally developed by the National Building Museum, were presented in 19 venues in Nebraska, Montana, and Wisconsin.
- Three copies of *Produce for Victory: Posters on the American Home Front, 1941-1945*, an exhibition based on posters from the National Museum of American History, circulated to 11 venues in Missouri, North Dakota, and South Dakota.
- Five copies of *Yesterdays Tomorrows: Past Visions of America's Future*, based on a 1984 collaboration between SITES and NMAH, circulated to 32 venues in Arizona, Kansas, Illinois, Virginia, Alabama, West Virginia, South Dakota, Ohio, Oregon, and Nevada.
- Two copies of *Key Ingredients: America by Food*, an exhibition originating at SITES, made their debut in 2003 and were circulated to 6 venues in Illinois and Utah.

SITES exhibitions opened during FY 2003

(* Asterisk denotes exhibitions based on Smithsonian collections and/or research)

**Caves: A Fragile Wilderness*. From the National Museum of American History (West Virginia, New Jersey, Montana, Alabama).

Close Up in Black: African American Film Posters (Ohio, Florida, California).

**July 1942: United We Stand*. From the National Museum of American History (Michigan, Tennessee).

Key Ingredients: America by Food (copy I and II) in partnership with the State of Humanities Council (Utah, Illinois).

**Latin Jazz: La Combinacion Perfecta*. From the Center for Latino Initiatives. (District of Columbia, Pennsylvania, New York).

* *Lunch Box Memories*. From the National Museum of American Art (Louisiana, Kentucky, Alabama, Washington, California).

**Magic, Myths, and Minerals*. Chinese Jades from the Arthur M. Sackler Gallery (Virginia).

**September 11: Bearing Witness to History*. From the National Museum of American History (Texas).

Through My Father's Eyes: The Filipino American Photographs of Ricardo O. Alvarado. From the Asian Pacific American Program (Florida, California, Nebraska).

DIGITIZATION: PROVIDING COLLECTIONS ACCESS

Digitizing collections, archives, library, and research information can help the Smithsonian achieve its goals of dramatically enlarging its audiences and degree of engagement, enhancing its scientific research, and modernizing its collections management. Combined with electronic delivery over the Web, digitizing affords the Institution the opportunity to expand its educational mission by delivering the Smithsonian to every school and home across the country.

Furthermore, researchers around the world who use the collections for scientific purposes – to identify species, to assess the biodiversity of a region, to study geological processes and history – will be able to access data from their desktop computers. This resource is as important to scientists, as it is to researchers and students in the arts and humanities.

Smithsonian Information Technology Plan, FY 2002-2007

Smithsonian collecting units are making collections more accessible by creating electronic catalogs and web-based information systems that consolidates a wide range of data and images previously held in disparate locations. At the close of FY 2003, over 12.9 million objects and specimens were available in electronic form to the public through 3.6 million records and 293,107 digital images. During the course of the year, more than 206,200 electronic records and 63,400 images were added to public access systems.

<u>Public Impact</u>	Under Secretary for Art	Deputy Secretary	Under Secretary for Science	Total
Public Access Systems				
Total number of objects / specimens available in electronic form to the public	1,031,110	762,978	11,164,073	12,958,161
Number of electronic records available to the public	1,045,699	816,034	1,762,175	3,623,908
Number of electronic images available to the public	119,890	80,708	92,509	293,107
Number of electronic records added to public access system during FY 2003	143,515	32,350	30,420	206,285
Number of electronic images added to public access system during FY 2003	8,834	13,549	41,024	63,407

Units represented by the Under Secretary for Art include AAA, CHNDM, FSGA, HMSG, NMAFA, NPG, and SAAM. Units represented by the Deputy Secretary include AM, CFCH, HSD, NMAH, NMAI, NPM, Castle, SIA, and SIL. Units represented by the Under Secretary for Science include NASM, NMNH, and NZP.

2003 Acquisition Highlights

In order to improve our stewardship of the national collections, the Smithsonian will "continue disciplined acquisition of the most significant objects and collections that document the nation's and the world's cultural and scientific heritage."

~ Smithsonian Institution Strategic Plan, 2004-2008

MUSEUM ACCESSION HIGHLIGHTS

Anacostia Museum and Center for African American History and Culture

- The Plummer collection which includes a diary written by Adam Francis Plummer – a slave on the Riversdale Plantation of Prince George’s County, Maryland – and ceremonial artifacts from a 19th century burial society.
- The book *Out of the Depths or the Triumph of the Cross* by Nellie A. Plummer, a family history of black life in Prince George’s County, Maryland.
- Painting *Daily Red, 1998* by Sam Gilliam.

Arthur M. Sackler Gallery

- Ninety-eight digital color prints by Raghubir Singh (India, 1942-1999).
- Pair of Tibetan ritual horns, 17th-18th century, conch shell, silver, turquoise, coral, and malachite. These two horns are excellent representations of the many ritual and altar objects associated with Tibetan Buddhism. The Sackler has some Tibetan sculpture but these would be the first ritual objects in the collection.
- Chang Dai-chien (China, 1899-1983), after Liang Kai (China, active early 13th century), ink on paper. The gallery already has a number of Chang Dai-chien paintings and organized a Chang retrospective in 1991 which traveled to New York and St. Louis. Chang was famous for his forgeries of earlier painting which he created in his early life to earn money. This is the first such “deliberate” forgery of Chang’s to enter the Sackler collection.

Freer Gallery of Art

- Amida (*Amitabha*), Kamakura period (1185-1333), Japan, wood and gold leaf. The graceful, diminutive and realistic rendering of the Amida Buddha is an excellent and rare example of a Buddhist devotional type that flourished in 13th-14th century Japan. Its level of quality suggests use in a major temple or in the private chapel of an aristocrat’s residence.
- Drug Pot (*albarello*) with European decoration, Edo Period, (1615-1868), Arita, Saga prefecture, Japan, Hizen province, porcelain with cobalt decoration under transparent, faintly blue glaze. This Japanese medicine jar is one of three known vessels bearing an extremely rare mode of European (possibly Portuguese) inspired decoration that suggests a previously

2003 Collection Statistics

unknown dimension of patronage for Japanese porcelain in the Freer and Sackler collections.

- Wine bottle of Cizhou-type, Xixia Kingdom or Jin Yuan dynasty, (13th-mid 14th century), stoneware decorated with cut glaze technique. While the Freer Gallery houses a generous

Acquisition Highlights

sampling of Cizhou-type wares, only a handful possess strong visual appeal or importance as this particular piece. Prior to this acquisition, the gallery only had one example of this cut glazed ware.

Hirshhorn Museum and Sculpture Garden

- Roy Lichtenstein, *Brushstroke*, 1996, fabricated 2002, painted aluminum. This monumental outdoor sculpture installed on the museum plaza, facing the National Mall, is an iconic work by one of the great artists of the 20th century and is a significant addition to the museum's collection of his work, which includes two paintings, two sculptures and twenty-nine works on paper.
- Joseph Beuys, *F.I.U. Blackboards*, 1977-1979, blackboards, pail, water and rags. This work joins another major work in the collection by this highly influential post-war artist whose art included elements of autobiography, performance and installation.
- Fred Tomaselli, *Monsters of Paradise Times Two*, 2002, hemp leaves, pills, photomechanical reproduction, synthetic polymer and resin on wood. This is the first work to enter the collection by this artist who is gaining increased recognition for his use of

a fantastic array of materials which expand the boundaries of what painting can be.

- Tacita Dean, *Fernsehturm*, 2001. This 16mm anamorphic color film is an important addition to the Hirshhorn's growing collection of film installation works.
- Four wall drawings by Sol LeWitt – adding significantly to the Hirshhorn's holdings by a preeminent American artist:
 - *Untitled Wall Drawing*, 2003, acrylic.
 - *Wall Drawing #13*, 1969, black pencil.
 - *Wall Drawing #236 (The Location of a Rectangle...)* 1974, black pencil and black crayon.
 - *Untitled Wall Drawing*, 2003, acrylic.

Horticulture Services Division: Orchid Collection

- *Cattleya patinii*. Significant for being a fall blooming relative of a well known spring blooming orchid, this specimen illustrates a seasonal method of speciation in orchids.
- *Pescatorea cerina* ‘Select’. Significant for being a large specimen of a superior form of a rare species. Awarded at the 2003 National Capitol Orchid Society Show for being an exceptional form of the species.
- *Brassavola perrinii*. Extra large specimen of an unusual species.
- *Oncidium cosymbephorum*. Extremely rare and beautiful species with enormous inflorescences.
- *Psychopsis papilio*. ‘Butterfly’ orchid of high educational and ornamental value.
- *Angraecum sesquipedale*. Famous Darwin’s Orchid. Important to illustrate its unique and bizarre pollination mechanism.

National Museum of African Art

- Yoruba peoples, tunic, early 20th century, cotton and glass beads. This particular beaded tunic, from the Okuku region, would have been worn by the Olokuku or king, as part of his special beaded regalia, which include slippers, flywhisk, staff and crown.
- A late 19th – early 20th century copper alloy bracelet made by the Bamum peoples of Cameroon.
- Mbuun peoples (Democratic Republic of the Congo), woman’s skirt, late 19th – early 20th century, raffia. Because of the rarity, quality, and condition, this object is an important addition to the museum’s holdings of central African textiles.
- Zwelethu Mthethwa (born 1960, South Africa), *Untitled*, 2002 and 2003, chromogenic print mounted to plexiglass with aluminum strainer. The Mthethwa photographs further extend the museum’s South African collection as it focuses beyond anti-apartheid political art to a broader commentary of everyday experience and intimacy, rather than national spaces. His works also serve to fill a gap in the overall contemporary collections in which photography is underrepresented.
- Gavin Jantjes (born 1948, Cape Town, South Africa), Suite of Prints (*A South African Coloring Book*), 1974-75. This is a suite of eleven prints combining imagery and text representing individuals and events associated with political oppression and racial injustice in South Africa. Images include scenes of protest, police violence against demonstrators, a funerary cortege, a beauty pageant, and depictions of manual work. One of the works includes a page from the artist’s passbook with handwritten text below.
- Mickaël Bethe-Selassié (born 1951, Ethiopia), sculpture, *Mégalithe*, 1991. This is the first major acquisition by an American museum of this important artist of the Ethiopian diaspora.

National Air and Space Museum

- “Bud Lite Spirit of Freedom” capsule piloted by Steve Fosset during the first solo balloon flight to circumvent the globe.
- The Air France Fox Alpha Concorde, the oldest of five in the Air France fleet of the world’s only supersonic passenger jet liner.
- Lockheed Martin XB-35 STOVL Joint Strike Fighter. The Joint Strike Fighter is a stealthy, supersonic, multi-role fighter. This XB-35 is the first ever built. Among its many test records, this aircraft was the first in history to achieve short takeoff, level supersonic dash, and vertical landing in a single flight. It is also the first aircraft to fly using a shaft-driven lift fan propulsion system. The X-35A flight test program was one of the shortest, most effective in history, lasting from June 23, 2001 to August 6, 2001.
- Mercury “Liberty Bell 7” pressure suit worn in flight by Virgil (Gus) I. Grissom during his second flight as a US astronaut.
- Bell XV-15 Tilt Rotor, Ship 2 was the culmination of efforts begun in the early 1950s to produce an aircraft that could takeoff, land, and hover like a helicopter, but with the speed of an airplane. This is the sole surviving XV-15 of the two built by Bell Helicopter and tested by NASA, the military services, the U.S. Coast Guard and Bell. The XV-15 has been the most successful of NASA’s rotary wing research programs and its technology inspired the V-22 Osprey adapted by the Marine Corps as the primary means of the “vertical envelopment” concept in warfare. The pioneering XV-15 tilt rotor was the first aircraft to fly onto the grounds of the new Steven F. Udvar-Hazy Center.
- X-Ray Telescope Payload, Aerobee. This is a payload package for an x-ray detection experiment very similar to one used by Riccardo Giacconi to search for x-ray sources in 1962 aboard an instrumented Air Force Aerobee 150 rocket. Flight data revealed the presence of an object in the sky that emitted x-rays at a rate greatly exceeding the sun, laying the foundation for x-ray astronomy.

National Museum of American History, Behring Center

- Etched and colored aquatint portrait print of artist Theresa Bernstein whose work is represented in NMAH’s Graphic Arts Collection, made by her husband William Meyerowitz between 1920 and 1924.
- Violin made by Luis Bellini of Jackson Heights, New York, in 1967 as a copy of the “Lord Wilton” violin made by Guarneri del Jesu in 1742.
- Cuatro, a Puerto Rican 5-string musical instrument made in 1970 by Yomi Matos and played by Latin musician Yomo Toro until 2002.
- Woman’s evening gown with a blouse of gold gilt cock feathers over a gold lamé skirt designed for Pierre Balmain in 2002; woman’s chartreuse silk caftan and trousers with multicolored floral embroidery, 2003; and a hanger for

2003 Collection Statistics

displaying the caftan set, all designed by Mr. Oscar de la Renta.

- 15-sol silver coin of 1670 struck in Paris for circulation in France's North American colonies.
- Copy of the *Jim Crow Song Book* published in 1828 with lyrics to minstrel show songs.
- Ball gown of off-white satin with rose point lace and crystal beads worn by First Lady Frances Cleveland to the 1893 inaugural balls.

Acquisition Highlights

- A 1939 Plymouth business coupe and a 1950 Studebaker Champion Starlight coupe.
- Black velour skating costume with black mesh sleeves and silver details and a pair of white leather figure skates worn by Kristi Yamaguchi during her professional skating career with the show "Stars on Ice" and professional competitions.
- Twelve objects related to recent developments in submarine telephony including 8 samples of various types of copper and fiber-optic cables, 3 optical repeaters for use on the sea floor, and a CD-ROM titled "TyCom Global Network Transatlantic Cable System."

National Museum of the American Indian

- Dolls and tipi honoring veterans by Emil Her Many Horses.
- 19 Huichol yarn paintings.
- Ceramic pot titled *Luggage* by Tammy Garcia.
- A variety of Native contemporary baskets.
- Painting titled *A Rose in Tribute*.
- 84 pieces of Eskimo ivory sculpture and baskets.

- 109 Nahua amate paintings.
- Miniature pot which traveled with Commander John B. Herrington aboard the U.S. Space Shuttle Endeavor.
- Photograph of Chief Joseph.
- 30 Guatemalan huipils (shirts).

National Museum of Natural History**Anthropology**

- A carved wooden sculpture from Easter Island and book *Te Pito te Henua*, or Easter Island. This accession is of great significance because the wood sculpture is from the 1886 collection made by Paymaster William Thompson on behalf of the Smithsonian during an expedition to Easter Island by the U.S.S. Mohican. On this expedition, Thompson collected two

monumental stone sculptures (one on display at NMNH) and a large collection of ethnographic artifacts for the Smithsonian collection. Paymaster Thompson wrote the book about the voyage and the collection. The book was published by the U.S. National Museum in 1891.

Mineral Sciences

- Park Forest meteorite which fell over suburban Chicago area.
- Suite of 104 mineral specimens from Burma that includes fine examples of topaz, elbaite and an exceptionally rare specimen of paineite.

- Merensky reef platinum ore, important ore deposit not well represented in the National Ore Collection.

Paleobiology

- Approximately 1,000 fossil graptolites from Wisconsin, Alaska and Washington, received from the U.S. Geological Survey (USGS). NMNH, Paleobiology is the primary repository for fossil collections from USGS paleontologists.

Systematic Biology**Botany**

- 1,732 algae specimens, primarily from a comprehensive study of algae from the Pacific Ocean. This collection includes 37 isotype specimens and supplements Botany's Pacific collection in a major way.

Entomology

- 4,110 grasshoppers and relatives (e.g. crickets, katydids, praying mantis, walking sticks, roaches, etc.) collected for the museum in the Dominican Republic. This is part of the "Survey of Orthopteroid Insects of Hispaniola," a collaborative National Science Foundation biodiversity survey and inventory grant with the Academy of Natural

Invertebrate Zoology

- Nine specimens of the hydrothermal vent tubeworm *Lamellibrachia luymesii*. This species was first described in 1975 from a single specimen that was almost totally sectioned for light microscopy. The gift of these 9

Vertebrate Zoology

- Over 1,200 assorted amphibians and reptiles from North America. An orphaned collection from the St. Louis Science Center, the collection is mostly composed of common North American species. The collection is historically significant since it represents a repository dating back to the late 19th century.
- A transfer from the Department of Interior, U. S. Fish and Wildlife Service, consisting of 40 specimens of Black-footed and Laysan Albatross. These specimens were obtained by the USFWS as casualties from the commercial long line fisheries in the Pacific Ocean. The specimens are

Sciences, Philadelphia. The project will survey the species, describe new ones, produce on-line interactive keys and collection data, train local entomologists and museum staff, and associate certain species to their habitats.

specimens represents the first whole specimens of this species in the collection, and provides useful comparative material for all described species of the genus.

voucher specimens for a master's study on albatross diet. This acquisition enhances the museum's holdings of these two species of albatross.

National Postal Museum

- Sardinian 10-cent bisect cover, right vertical half of Sardinia Scott 11n, grayish brown shade, tied by lozenge cancel on full folded letter from Ascoli to Macerti (sent December 30th or 31st, 1860) to Macerti (arrival January 1, 1861).

- The original engraved steel die that produced the 1851 essay, Scott 11-E2.

National Portrait Gallery

- *Daniel Boone* by Chester Harding, 1820 and 1860, oil on oilcloth. This painting is a rare life portrait of the aged frontiersman.
- *Tom Wolfe* by Everett Raymond Kinstler, 2000, oil on canvas. This piece is a dramatic full-length portrait of a contemporary journalist and novelist.
- *Myron T. Herrick* by William Orpen, 1925, oil on canvas. This portrait of an important American diplomat was executed by a well-known Irish portraitist when both men were living in France.
- *Solomon Andrews* by Robert Cornelius, c. 1842, daguerreotype. This rare daguerreotype of Solomon Andrews is only the second image of a 19th-century aviation pioneer to enter the collection. Already the subject of a *Profile* article, this portrait enables the Gallery to bring to the public the story of an American balloon aviator whose contributions to the history of flight have been largely overlooked. As a prime example of work by one of America's first portrait photographers, this daguerreotype also speaks to the gallery's mission to illuminate the history of American portraiture.
- *James Brown* by Diane Arbus, 1966, gelatin silver print. This vintage portrait of James Brown dates from a critical moment in the career of the musician, singer, and songwriter known as the "Godfather of Soul." In 1966, Brown was not only

enjoying wide popularity among both black and white audiences with his recordings "Papa's Got a Brand New Bag" and "I Got You (I Feel Good)," but was beginning to become involved in the civil rights movement. With the acquisition of Brown's portrait, the gallery has expanded its representation of African Americans who have made important contributions to the performing arts as well as to the struggle for civil rights.

- *Sixteen Portraits of Dancers* by Max Waldman, 1970-1978, gelatin silver prints. As the foremost dance photographer of the 1970s, Max Waldman produced iconic images of the performers who transformed American ballet during a pivotal period in its history. With this gift of sixteen photographs featuring stars such as Natalia Makarova, Mikhail Baryshnikov, Suzanne Farrell, and Gelsey Kirkland, the gallery has significantly enhanced its ability to represent key figures in the field of 20th century American dance.
- *The Ruth Bowman and Harry Kahn Twentieth-Century American Self-Portrait Collection* of 187 works on paper that represents an extraordinary survey of the self-portrait genre.
- *Billie Burke, Ed Wynn, George S. Kaufman* by Ralph Barton from the 1930s, original caricature drawings. These three drawings expand the already strong collections of caricature and performing arts material.

National Zoological Park

- Male and female bald eagles (*Haliaeetus leucocephalus*) were acquired for the new bald eagle refuge exhibit. This gift was developed in collaboration with the U.S. Fish and Wildlife Service and the American Zoo and Aquarium Association.
- Male and female black howler monkeys (*Alouatta caraya*). The species has not been on exhibit at the Zoo since 1972.
- Two female lions (*Panthera leo*) were received as non-breeding companions for the male.
- Four maned wolves (*Chrysocyon brachyurus*) were born as part of the managed breeding program for the species.
- A leafcutter ant colony (*Atta cephalotes*) was purchased for the *Think Tank* exhibit to replace the colony that died out in 2001.
- Three Arrau turtles (*Podocnemis expansa*) were received as gifts for the new reptiles in the Amazonia exhibit.

Office of Architectural History & Historic Preservation

- A rare stereo view card showing the Upper Main Hall in the Smithsonian Building taken early during the 1872-73 reconstruction of the hall after the fire of 1865.
- A rare stereo view card showing the Lower Main Hall in the Smithsonian Building taken between 1874 and 1882.
- A rare stereo view card showing the Upper Main Hall of the Smithsonian Building between March 13, 1872 and 1874.

These three images support continuing research on the Smithsonian Castle during its earliest years.

Smithsonian American Art Museum

- Various works and collages by Joseph Cornell (1903-1972). These collages are a significant contribution from The Joseph and Robert Cornell Memorial Foundation and a significant addition to the Joseph Cornell Study Center.
- *North American Indian Portfolio* (1844) by George Catlin.
- Lee Friedlander (born 1934), *The American Monument*, silver gelatin prints. This is a monumental photographic series from one of the most important American photographers in the last fifty years.
- David Hockney (born 1937), *Snails Space with Vari-Lites, "Painting as Performance,"* 1995-96. This work is the culmination of the artist's lifelong interest in the interaction of space, time and color.

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- Alex Katz, (born 1927), *Washington Crossing the Delaware: American Revolutionary Soldier*, 1961. Alex Katz is an important figurative artist and this work is an integral addition to the tableau *Washington Crossing the Delaware* already in the museum's collection.
- Jesue Moroles, (born 1950), *Lapstrake I*, 1980. This is an intimately scaled early work that adds to the other works in the museum's collection by this important contemporary sculptor.

Acquisition Highlights

- H. C. Westermann (1922-1981), *Westermann's Table*, 1966. The artist's delight in puns is a hallmark of the piece, in which a stack of antique books bolted to a table teases the viewer to read volumes that cannot be opened.

Smithsonian American Art Museum, Renwick Gallery

- Marilyn Druin (1941-2001), *Golden Sampler*, 2001. *Golden Sampler* is a spectacular addition to the museum's jewelry collection.
- Ruth Duckworth, (born Germany 1919), *Untitled (Archival Inventory 761702)*, 2002. This is a magnificent wall sculpture and a seminal work for the artist that immeasurably enhances the museum's holdings in clay.

ARCHIVE ACQUISITION HIGHLIGHTS

Archives of American Art

- Eleven new oral history interviews conducted for the Nanette L. Laitman Documentation Project for Craft and Decorative Arts in America. Dorothy Gill Barnes (fiber), Francis Higgins (glass), Michael James (fiber), William Keyser Jr. (wood), Marvin Lipofsky (glass), Ron Nagle (clay), Eugene Pijanowski (metal), Hiroko Sato Pijanowski (metal), Hiroko and Eugene Pijanowski (metal), Paul Soldner (clay), and Betty Woodman (clay). The interviews provide a first hand account of the people and events that are central to the history of American craft.
- As part of the Nanette L. Laitman Documentation Project for Craft and Decorative Arts in America, the Archives also acquired the papers of some of the most prominent craft artists in the United States including Garry Knox Bennett (b. 1934), woodworker, Oakland, California; William P. Daley (b. 1925), potter and educator, Elkins Park, Pennsylvania; Margaret De Patta (1903-1964), jeweler and designer, Napa, California; Ralph Bacerra (b. 1938), potter, Los Angeles, California; Merry Renk (b. 1921), jeweler, San Francisco, California; Dominic Di Mare (b. 1932), fiber artist, San Francisco, California; James Bassler (b. 1933), weaver and fiber artist, San Pedro, California; Kim Schmahmann (b. 1955), woodworker, Cambridge, Massachusetts; and Arline M. Fisch (b. 1931), metal smith and jeweler, San Diego, California. By collecting this material and making it easily accessible to scholars the Archives plays an active role in preserving our cultural heritage and broadening the scope of American art history. These new acquisitions substantially strengthen the Archives' primary sources for the study of American craft.
- Milton W. Brown Papers and Milton and Blanche R. Brown Travel Diaries. These papers include personal and professional correspondence, 1930s-1980s; subject files on American art and architecture; manuscripts and photographs for various textbooks and monographs; notes and subject files on European art; miscellaneous catalogs, announcement cards, and invitations. Two areas are of special interest: Brown's notes, including mimeographed handouts from two courses he took at the Fogg Art Museum (Paul J. Sachs's museum course, which can be 90% reconstructed from Brown's files, and a course on art criticism taught by A. Philip MacMahon, art historian and husband of Audrey MacMahon). The travel diaries, which are delightfully acerbic, comment on museums, personalities, architecture, culture, scenery, and whatever else catches the couple's very pointed notice.
- The Dorothy Goldeen Gallery Records. Dorothy Goldeen, a prominent art dealer in California, first joined the Hansen Fuller Gallery in San Francisco, which became a prominent venue for contemporary art. Goldeen assumed a key position in the gallery, which evolved into the Hansen Fuller Goldeen Gallery, and then Fuller Goldeen. In the late 1980s, Goldeen settled in Southern California and founded the Dorothy Goldeen Gallery in Santa Monica. In 1996, after twenty-three years as a fine arts dealer, Goldeen closed her gallery. In the early 1990s, the Archives received the Fuller Goldeen Gallery records dating from 1965 to 1990. The Dorothy Goldeen Gallery records compliment the Fuller Goldeen gallery records and consist of correspondence with artists, art consultants, writers and collectors, as well as exhibition and biographical material on artists such as Enrique Martinez Celaya, Dale

2003 Collection Statistics

Chihuly and Nam June Paik, to name a few. These records help document the development of the contemporary art market in California.

- Important additions to the Lorser Feitelson and Helen Lundeberg papers including professional and personal correspondence, biographical material on Lorser Feitelson and Helen Lundeberg, clippings, professional and personal photographs, photographs of their art work and their collection, financial records, Feitelson lecture notes, and notes for “Feitelson on Art.” A seminal figure in Los Angeles art history, Helen Lundeberg (1908-1999) co-founded with husband Lorser Feitelson (1898-1978) the New Classicism art movement in 1934, also known as Post-Surrealism, which fused the fantastical imaging of Surrealism with the formal structure of Renaissance painting. With its emphasis on dream and metaphor, depicted in a literal style, the Los Angeles movement reflected the influence of the “literary” rather than the “automatic” branch of Surrealism. Among the leading early figures in California modernist art, Feitelson and Lundeberg evolved stylistically from their Post-Surrealist to a

Acquisition Highlights

related, but not identical, abstract Color Field style. Feitelson was included in the 1959 *Four Abstract Classicists* exhibition at the Los Angeles County Museum of Art. This historic show featured the hard-edged geometric abstraction of Feitelson, John McLaughlin, Karl Benjamin, and Frederick Hammersley, all of whom are represented in the Archives of American Art.

- The Christmas Card Collection of James Mullen, Professor Emeritus, State University of New York, Oneonta. During each holiday season, Mullen corresponded with his colleagues, students, friends and family by exchanging handcrafted holiday greetings. As the years passed, Mullen accumulated a meaningful and distinguished collection of works on paper. The collection consists of forty-four original holiday greeting cards dating from the 1950s to the present. Several of the works are by James Mullen, while a majority of the collection consists of cards he received from artist friends. For the 2003 holiday season, the Archives exhibited selections from this festive collection, *Yuletide Wishes: The James Mullen Christmas Card Collection*, at the Archives’ offices in the Victor Building.

Archives Center, NMAH

- Aladdin Industries, Inc. Records, 1906-1997. This collection documents a family business best known for its illustrated lunch boxes, many of which have been acquired by NMAH’s Division of Cultural History. These records illuminate issues of technical innovation, entrepreneurship, and marketing.
- William Russo Music and Personal Papers, 1920s-2002. Papers include music manuscripts and audiovisual recordings of an important composer whose work had connections to Duke Ellington and other major music figures.

- Messmore & Damon, Inc. Records, ca. 1910-1950. These business records, photographs, designs, and trade literature are of a firm which produced parade floats, dioramas, retail store window displays and similar commercial products and services. This collection strengthens the Archives’ nationally recognized holdings of advertising and other commercial visual materials.
- Milt Gabler Papers, ca. 1920-2000. These papers and recordings document the life and career of record producer Milt Gabler whose work for Decca records and his own

2003 Collection Statistics

Commodore recording label brought to the commercial market many important musicians, especially in the field of jazz.

Acquisition Highlights

- Eral Shaffer Papers, 1925-2002. These personal papers of the first person to hike the entire Appalachian Trail in a continuous walk include trail diaries, poetry, photographs and other material documenting his experiences as a hiker and supporter of environmental causes.

Center for Electronic Research and Outreach Services, NPG

- In addition to the ongoing survey of New York collections, including the extensive portrait holdings of the Museum of Modern Art, CEROS staff catalogued the collections of artists Marsden Hartley, Paula Stern, Doris Rodewig, James Roger,

Lisa Jorgenson, and Marcella C. Winslow. A CEROS contractor conducted an on-site survey of a large private portrait collection in Texas.

Freer Gallery of Art and Arthur M. Sackler Gallery Archives

- Ambassador Richard B. Parker Photographs. This collection includes 199 black and white prints, 2 contact sheets, and approximately 450 negatives taken by Richard B. Parker, Ambassador of the United States to Morocco (retired), and author of the book *A Practical Guide to Islamic Monuments in Morocco*. The images document Islamic monuments in northern Africa and southern Europe, including Morocco, Spain, Egypt, Algeria, Lebanon, Syria, and Jordan. The collection complements the museum's extensive holdings of Islamic architecture.
- Charles Isaacs Archive of Research Photographs of Asia. This group of photographs (ca. 1860s – 1880s) was mostly taken by British photographer Samuel Bourne (1834-1912) to document India. Depicted are architectural monuments, city and village views, and picturesque landscapes, such as the Great Imambara and Mosque in Lucknow, the quadrangle of

the Moti Masjid (Pearl Mosque) in Agra, and the Memorial Well in Kanpur. The photographs enhance the existing photographic holdings of Samuel Bourne.

- Charles W. Freer (b. 1882) Letters and Documents, 1914-1917, the nephew of Charles Lang Freer. The collection includes three letters from Charles Lang Freer to his nephew Charles W. Freer of New Jersey (1914-1917); one copy of "Last Will and Testament of Charles L. Freer," and a magazine article entitled, "Around the Mall and Beyond," on the reopening of the Freer Gallery. The letters add considerably to an understanding of Charles Lang Freer's family life.

Archives of American Gardens, HSD

- 106 garden submissions including a total of 830 photographic images were added to the Garden Club of America Collection which includes descriptive information and images of approximately 4,100 gardens, parks, and designed landscapes throughout the United States. This material adds to the extensive body of information already included in the archives on such topics as garden styles, design trends, garden ornamentation and furnishings, and land use.
- 1,033 garden images by Lois Poinier from the late 1950s to the late 1970s. These photographs document a prolific career based in the mid-Atlantic region. The views of gardens before, during, and after construction are especially helpful to researchers as they show the evolution of the garden design process. This collection is particularly significant since it documents an era not well represented in the AAG.
- The Roche Collection, though numbering only 91 images, documents gardens from the era of the 1960s and 1970s that, until now, was not well represented in the AAG. A husband and wife team of professional photographers took the images, a number of which were published in gardening magazines and newspapers.
- Eighty 35mm slides that document the many activities of the Horticulture Services Division were added to the Slide Library, which includes images of the gardens, interior plant displays, and garden furnishings and artifacts designed and/or maintained by HSD as well as both historic and contemporary horticultural subjects and sites.

Human Studies Film Archives, NMNH

- An amateur film documenting the 1933 Leahy expedition to the Wahgi Valley, Papua New Guinea. Footage expands and enhances early moving image documentation of Papua New Guinea and adds to already existing footage in HSFA relating to the well-known Leahy Brother expeditions to the Wahgi Valley.
 - A collection of professionally produced travel and natural history titles marketed for home consumption in the 1920s-1930s by companies such as Kodak Cinegraph, Burton Holmes Travel Film-Reels and Pathegrams. This significantly adds to the HSFA collection of professional travelogues but, more importantly, this collection represents the first Burton Holmes (dean of travel-lecturers) home-marketed travelogues.
- These films augment the broader HSFA collections, which chart the continuum between popular forms of travelogue and research-based ethnographic films.

National Air and Space Archives

- Krafft A. Ehrlicke Papers. Krafft Ehrlicke (1917-1984) was a visionary space scientist and a pioneer of aerospace technology. This collection includes the following materials: journal and newspaper articles both on Ehrlicke and his work, as well as articles of interest to Ehrlicke; illustrations, sketches, drawings, graphs, and charts; photographs and drawings; notes and calculations; paper and slide copies of speeches and lectures; VHS tapes and audio reel-to-reel interviews with Ehrlicke; reports and studies written by Ehrlicke for Bell, Convair, and North American Rockwell, as well as papers relating to his concept of the "Extraterrestrial Imperative," and his calls for mankind's colonization of the solar system.
- Revista Aérea Collection. This collection consists of approximately 30 cubic feet of the files of the Spanish-language monthly periodical *Revista Aérea*, which ceased a 66-year publication run on March 31, 2003. This collection is a virtual time-capsule of the evolution of aviation in Latin America over the preceding 66-year period. It is exceptionally well organized with significant documentation on hardware and aircraft systems, aeronautical educational enterprises in Latin America, aero clubs, sport aviation, military and naval aviation, indigenous manufacturing enterprises, and air transport. Included in this collection are the following types of material: black-and-white and color photographs and color slides; aerospace trade literature, both domestic and foreign; speeches and lectures; news releases and drawings.
- Yamada Diary Collection. This collection consists of a Japanese World War II diary (1943-1944), two small pocket calendars/ notebooks, a Japanese soldier thousand stitch belly band (senninbari), and two Japanese Hinomaru flags, with individually written family names and prayers that the soldiers would wear into combat for luck. The diary includes color pencil drawings, dried flowers, and a few photographs.
- *Red Moon: The Secret Soviet Moon Program Honeywell Documentary*. The Secret Soviet Moon Program was a Honeywell Aerospace Max-Q Digital Group documentary project which was never completed. This collection consists of the following material collected for this project: 43 rolls of camera original tape footage; approximately 1,700 35 mm negatives along with two CD's containing scans of these negatives, showing space artifacts and engineering photographs of the Soviet era; one CD's labeled "Red Moon Treatment;" a copy of the script for Part 1: "A Foothold in Outer Space" written by Steven Katz; and related project documentation.

National Anthropological Archives, NMNH

- Sister Inez Hilger Papers (1931-1971), cultural anthropology. This accretion to an existing collection consists of negatives, slides, and photographs documenting Sister Hilger's work in Chile and Argentina, and visits to Peru and the Panama Canal. Textual materials include Mapuche Chilean field notes and Araucanian-Spanish dictionaries. This collection fulfills NAA's mission to expand the collections in scope to cover anthropological research worldwide.
- Grover S. Krantz Papers (1955-2001), physical anthropology. Dr. Krantz's professional interests concerned human evolution, primarily skeletal traits, but also the evolution of the human capacity for culture. He also became the first academically affiliated physical anthropologist to be active in Sasquatch (Bigfoot) research. This collection consists of audiotapes, correspondence, publications, slides, personal documents, and teaching files from Washington State University.
- William J. McGee Photographs and Publications (1883-1897), History of Bureau of American Ethnology. The collection contains information about William J. McGee, including a biographical sketch, bibliography of his publications and some publications by McGee. The publications are inscribed by McGee to his wife Anita Newcomb McGee.
- John V. Murra Papers (1930s-1990s), cultural anthropology. This final accretion to an existing collection provides copies of documents used in research, audio and videotapes, biographical information, correspondence, publications, maps, diaries, and photographs. Much of Murra's research focused on 15th and 16th century culture in modern-day Peru, Bolivia, Chile, and Ecuador.
- Robert W. Neuman River Basin Survey Field Materials (1959-1967), archeology. This collection adds new insight into the NAA's existing River Basin Survey collection due to its detailed reports and log books. The materials contain field reports, log books, and weekly reports accompanied by photographs and survey forms on Chattahoochee and Columbia dam sites.
- Ladislav P. Novak Papers (1960s-1970s), physical anthropology. The collection documents Dr. Novak's studies of aging, biological growth, and physical activities using body composition analysis undertaken at the Mayo Clinic and the University of Minnesota. The work covered a wide range of people, including athletes, corporate executives, infants, pregnant women, police officers, and schoolchildren.
- James B. Watson Papers, cultural anthropology. This collection contains correspondence, field notes, maps and publications relating to Dr. Watson's work in the Eastern Highlands of Papua New Guinea, Del Norte Colorado, and Brazil as well as his teaching files from the University of Washington.
- Virginia D. Watson Papers (1930-2001), archeology and cultural anthropology. The collection covers Dr. Watson's research on archeology and socio-cultural anthropology in the regions of Brazil, Plains and Caddo Indians, and Highlands of Papua New Guinea. Materials include published and unpublished writings, archeological measurements, correspondence, field notes, and slides.

Smithsonian Institution Archives

- Records created and maintained by Christen M. Wemmer, Associate Director of the National Zoological Park's Conservation and Research Center, documenting administrative activities. Major topics include the American Association for Zoological Parks and Aquariums (now the American Zoo and Aquarium Association), the Appalachian Trail, Friends of the National Zoo (FONZ), programs in Nepal, Pere David's deer, personnel issues, research proposals, safety and security, daily operations, and public outreach.
 - As part of the Archive's website archiving project, SIA appraised and accessioned two Smithsonian websites into its holdings – the Hirshhorn Museum and Sculpture Garden website (2001 version), and SIA's own website (2003 version).
 - Records that document planning for the exhibition *Growth of the United States*, primarily during the years when the National Museum of History and Technology was known as the Museum of History and Technology. This supplements other SIA collections pertaining to this major exhibition. SIA also received records from the National Museum of American History, documenting the activities of the Office of the Director and the daily administration of the museum during the tenure of Spencer R. Crew.
- The Oral History Program acquired the following recordings:
 - Interviews of Marilyn J. S. Weitzman, Stanley Weitzman, and Victor G. Springer, recorded by Susan Jewett and David Smith, documenting the history of the Division of Fishes, National Museum of Natural History, 9.5 hours of audiotape.
 - Interviews of 12 visitors on their experiences of Easter Monday at the National Zoological Park, recorded by Jeffrey Hyson and Pamela M. Henson, 6 hours of audiotape.

LIBRARY ACQUISITION HIGHLIGHTS

Smithsonian Institution Libraries

- The Museum Support Center Library arranged for the gift of the classic chemistry reference, *The Beilstein Handbook of Organic Chemistry* (in German, complete through vol. 10 of the 3rd supplemental series), with assistance from the Smithsonian Center for Materials Research and Education. The MSC Library also purchased the *Kirk-Othmer Encyclopedia of Chemical Technology*, a critical reference resource.
- The AA/PG Library received three collections to incorporate into the extensive Vertical File Collections. Mary Sayre Haverstock, who published the *Artists in Ohio 1787-1900, A Bibliographical Dictionary* (Kent State University Press, 2000), donated 40 boxes (30 of research materials on the individual artists and 10 of card files). Twenty-seven boxes of the late Jean Jepson Page life-long research files were received from her son. Mrs. Page had devoted her life working on American art. Art historian, Lora Vale Quade, of Falls Church, Virginia, donated 32 boxes of art related materials, mostly clipping files.
- The FSGA Library received *Nihon Bijutsuin Hyakunshi (100 year History of the Japanese Art Institute)* an 18 volume set on the history of painting exhibitions organized by the Japan Art Institute which promoted Western style painting in Japan for the first time. The set is not for sale and donated only to selected libraries. The library received a facsimile reproduction of *Sansui Chokan (Landscape Scroll)* by Sesshu (1420-1506). The original (dated 1486) is registered as a national treasures in the Mori Collection in Japan. Although it is a facsimile edition, the scroll, issued in a limited edition in the early 20th century, is considered a special title in Japan. A donation of *The Surimono Prints* (Lovejoy Press, 1980), one of 1,080 privately printed copies, contains a large number of surimono prints owned by the authors Edythe Polster and Alfred H. Marks. It is considered one of the most comprehensive catalogues published outside Japan.
- The NASM Library was given thousands of volumes from the Federal Aviation Administration Library as it downsizes. These materials document the development of commercial aviation in the United States and include such topics as Federal regulation of air traffic, standards for developing airports and services, design of aircraft, and the licensing of pilots. Included are one of the few nearly complete runs of the Official Airline Guide (OAG) which documents the life cycles of airlines and reports and regulations of the Civil Aeronautics Board and its predecessors. These materials constitute within the NASM Library the single greatest resource on the development of civil aviation in the United States.
- Mr. Chris Skeie, Director for Exhibits and Special Projects of the Panama Canal Museum in Seminole, Florida, donated to the STRI Library, copies of the following maps, which have been framed and are on permanent exhibition in the Reading Room:
 - Plano de la Ciudad de Panamá en 1904, por C. Bertoncini. Escala 1:3000. Maximiliano Lemm, litógrafo. Panamá, Litografía de la Comisión Istmica del Canal.

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- The Panama Canal as seen by Charles H. Owens of the Los Angeles Times Art Staff from a special military airplane. The Panama Canal Railroad, Cristobal, Canal Zone, 1925.
- NMNH Birds Library was given a complete run of *Ornitoloia neotropical* vols. 1-13, 1990-2002.
- The estate of Mary Marvin Breckinridge Patterson included books that were selected by SIL for the Anacostia Library.
- Weiditz, Christoph. *Das Trachtenbuch des Christoph Weiditz von seinen Reise nach Spanien (1529) und den Nederlanden (1531/32)*. Valencia: Ediciones Grial, 2001.
- Facsimile volume & commentary volume, translated from Spanish into English. The book is a limited edition. Christoph Weiditz visited Spain in 1529 and the Netherlands in 1531-1532. During these trips he produced more than 154 watercolor drawings of the costumes, trades, and customs of the people of these regions. It is one of the very earliest "costume books" which document cultural diversity and distinctions of social status, rank, trade, and gender. The original manuscript is held in the Germanisches Nationalmuseum in Nuremberg (Handschrift 22474). Two previous versions have been published in 1927 as Volume 2 of the *Historische Waffen und Kostume* and in 1994 as a reprint of the 1927 version by Dover. Neither edition reproduces more than a quarter of the plates in color.
- Leadbetter, Charles, fl. 1728. *A treatise of eclipses of the sun and moon: for thirty-five years, commencing anno 1715, ending 1749...* London, John Wilcox, 1731. Leadbetter, known primarily as a mathematician and surveyor, gained fame for his

Acquisition Highlights

- accurate prediction of the 1715 total solar eclipse. This adds to the Library's holdings in astronomy.
- Falck, Nikolai Detlef, 1736-1783. *An account and description of an improved steam engine...* London, B. Law, 1776. SIL's technology collection received a boost from the purchase of this small pamphlet by the incredibly unknown fellow, Nikolai Detlef Falck. This is a fascinating little work that is an excellent supplement to the library's many works on steam engines and steam technology.
- Brindley, James, 1716-1772. *The history of inland navigations, particularly that of the Duke of Bridgewater...* London, T. Lowndes, 1779. As a nice addition to SIL's collection of works on canals, this is the third edition of this landmark book in the history of canal engineering.
- Hachette, Jean Nicolas Pierre, 1769-1834. *Programme du cours élémentaire des machines, pour l'an 1808*. Lanz, José María de, b.1764, and Betancourt, Augustín de, 1758-1824. *Essai sur la composition des machines*. Paris, De L'Imprimerie impériale, 1808.
- Gray, Samuel F. *A natural arrangement of British plants*. Two vols. London: Printed for Baldwin, Cradock, and Joy, 1821.
- Linné, Carl von. *Vollständiges Pflanzensystem*. 14 vols. in 15. Nürnberg: G. N. Raspe, 1777-1788.
- Linné, Carl von. *Vollständiges Natursystem des Mineralreichs*. 4 vols. Nürnberg: G. N. Raspe, 1777-1779.
- Meyen, F. J. F. *Reise um di Erde...in den Jahren 1830, 1831 und 1832*. 2 vols. Berlin: In der Sander'schen Buchhandlung (C.W. Eichhoff), 1834-1835.

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- Pulteney, Richard. *Historical and biographical sketches of the progress of botany in England*. 2 vols. London: Printed for T. Cadell ..., 1790.
- Balland, Eugene A. *Les papillons, leur histoire, la manière de leur faire la chasse et de les conserver*. Paris: Chez Pre. Blanchard: [Chez] Lecerf, 1823.
- Blankaart, Steven. *Schou-berg der rupsen, wormen, ma'den, en vliegende kierkens daar uit voortkomende*. Amsterdam: Jan Ten Hoorn, 1688.
- Vrolik, Willem. *Catalogue de la superbe bibliothèque d'ethnographie, de zoologie, d'anatomie comparée, etc....*. Amsterdam: F. Muller, 1865.
- An original Roger Tory Peterson oil painting of the Road Runner.
- Livingstone, David. *Missionary travels and researches in South Africa*. London: J. Murray, 1857. Inscribed by Livingstone, with his photograph mounted inside.

Acquisition Highlights

- Stanley, Henry M. *In darkest Africa*. 2 vols. New York: Sampson Low, Marston, Searle and Rivington, 1890, inscribed by the author.
- Harris, W. C. *Narrative of an expedition into southern Africa during the years 1836, and 1837*. Bombay: American Mission Press, 1838.
- Harris, W. C. *Portraits of the game and wild animals of southern Africa*. London: Published for the proprietor by W. Pickering..., 1840.
- N'zau, Bula (i.e., Bailey, Henry). *Travel and adventures in the Congo Free State and its big game shooting*. London: Chapman & Hall, 1894. N'zau, Bula, *Sketches, map, and photographs of Henry Bailey's travels through the Congo Free State*, 1884-1888.
- Daniell, Samuel. *African scenery and animals*, 1804-1805.

2003 Collection Statistics

4. Is the presentation style and format clear and effective?

5. What changes, if any, would you recommend to the presentation style and format to make the report more useful from your perspective?

6. Additional comments and suggestions:

Thank You!