

The World's Herbaria 2016:
A Summary Report Based on Data from Index Herbariorum

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PURPOSE OF THIS REPORT

With this document The New York Botanical Garden initiates an *Index Herbariorum* annual report that we intend to distribute annually. Reports will for all years will be archived on the *Index Herbariorum* website (<http://sweetgum.nybg.org/science/ih/>).

The purpose of the report is to provide an annual snapshot of *Index Herbariorum* data to facilitate tracking change over time. Participating institutions can use these data to put their own collection in a global perspective and to understand how they contribute to the worldwide effort to document plant and fungal biodiversity. Hopefully the report will also prompt herbaria to update their information regularly.

Herbaria have long had a tradition of communication and cooperation, and *Index Herbariorum* benefits greatly from this tradition. I thank the hundreds of contributors each year who alert me to changes in their own herbaria and also to changes in other herbaria. The statistics provided in this report reflect the content of the database as of 1 December 2016.

BACKGROUND ON INDEX HERBARIORUM

Index Herbariorum was established in 1935 by the International Association for Plant Taxonomy (IAPT) who published its first six editions. Dr. Patricia Holmgren, then Director of the New York Botanical Garden Herbarium, served as co-editor of edition 6, and subsequently became the senior editor. She oversaw the compilation of hard copy volumes 7 and 8, and Dr. Noel Holmgren, a member of The New York Botanical Garden's scientific staff, oversaw the development of the *Index Herbariorum* database, which became available on-line in 1997, superseding the printed version. In September 2008, Dr. Barbara M. Thiers, Director of the NYBG Herbarium, became the sole editor of the index.

OVERVIEW

According to the data in *Index Herbariorum* as of 1 December 2016, there are **2962** active herbaria in the world, containing **381,308,064** specimens. These herbaria are found in **176** countries. Associated with these herbaria are **11,548** staff members. During the past year, **85** new herbaria with a total of **1,401,008**

specimens were added to *Index Herbariorum*, and 6 herbaria were reported as discontinued.

Note that all the data presented here are approximate. *Index Herbariorum* depends on user input for updates, and nearly one-third of all institutional records have not been updated for more than ten years! Also, most herbaria can only estimate the size of their holdings. The totals for staff and associates include a mixture of administrators, researchers, collections managers, emeriti and volunteers. Corrections to the data presented here are appreciated; please use the “Feedback” function in the individual records needing correction for institutions or staff. To report major changes, it may be more convenient to use the registration form, which can be downloaded at the bottom of the main *Index Herbariorum* page (<http://sweetgum.nybg.org/science/ih/>).

SUMMARY TABLES AND GRAPHS

The tables and charts included here reflect the most requested types of summary information. Other types of summaries can be considered for future reports, if suggested. Note that the regions into which countries are grouped in these reports follows R. K. Brummitt’s World Geographical Scheme for Recording Plant Distributions, Ed. 2. 2001.

I. Summary of herbaria by Region and Country

Region	Country	Herbaria	Specimens	Staff & Associates
EUROPE				
	Andorra	1	1,068	1
	Austria	19	10,445,710	114
	Belgium	10	5,200,518	53
	Bosnia and Herzegovina	1	110,000	1
	Bulgaria	4	395,850	24
	Croatia	11	367,884	29
	Cyprus	2	11,469	5
	Czech Republic	45	8,312,200	135
	Denmark	2	3,497,000	36
	Estonia	8	1,129,706	26
	Finland	12	5,482,701	63
	France	76	26,759,156	157
	Germany	69	21,819,450	236
	Greece	9	526,050	53
	Hungary	9	2,309,675	37

Iceland	2	164,000	7	
Ireland	5	850,517	11	
Isle of Man	1	3,000	1	
Italy	75	12,333,020	266	
Latvia	7	546,000	28	
Lithuania	4	467,100	30	
Luxembourg	1	50,000	8	
Macedonia	5	256,430	9	
Malta	1	10,000	1	
Montenegro	1	10,000	4	
Netherlands	15	7,410,519	62	
Norway	7	3,333,000	35	
Poland	31	5,310,333	198	
Portugal	19	1,849,601	68	
Romania	15	2,844,484	36	
Serbia	3	720,000	25	
Slovakia	17	1,215,125	70	
Slovenia	4	217,051	9	
Spain	55	5,920,166	394	
Sweden	10	12,457,000	58	
Switzerland	16	12,273,500	80	
U.K.	123	22,022,324	348	
TOTAL	37	695	176,631,607	2718
AFRICA				
Algeria	3	377,365	5	
Angola	3	125,000	2	
Benin	1	18,000	6	
Botswana	5	38,479	11	
Burkina Faso	3	20,940	17	
Burundi	1	20,000	3	
Cameroon	3	137,000	11	
Central African Republic	1	10,000	5	
Comoros	1	5,066	5	
Congo Republic (Congo- Brazzaville)	1	40,300	1	
Democratic Republic of the Congo	10	277,894	40	
Egypt	11	706,800	68	
Equatorial Guinea	1	8,000	2	

Ethiopia	4	172,580	16	
Gabon	1	40,000	4	
Ghana	3	102,052	9	
Ivory Coast	1	40,000	1	
Kenya	2	1,100,000	18	
Lesotho	3	21,600	10	
Liberia	1	7,000	0	
Libya	2	50,000	10	
Madagascar	3	100,000	4	
Malawi	1	100,000	11	
Mali	1	6,400	4	
Mauritania	1	6,200	3	
Mauritius	1	25,000	1	
Morocco	4	215,500	7	
Mozambique	2	125,350	14	
Namibia	1	94,000	8	
Nigeria	7	194,500	24	
Republic of Guinea	2	19,800	3	
Réunion	1	10,000	5	
Rwanda	1	16,702	2	
São Tomé e Príncipe	1	1,500	3	
Senegal	1	12,000	2	
Seychelles	1	3,081	1	
Sierra Leone	2	62,000	2	
South Africa	45	3,236,390	133	
Sudan	3	40,500	6	
Swaziland	1	7,200	3	
Tanzania	7	297,300	18	
Togo	1	21,000	2	
Uganda	4	84,767	4	
Zambia	4	111,000	19	
Zimbabwe	5	540,636	20	
TOTAL	47	161	8,648,902	543
CENTRAL ASIA & MIDDLE EAST				
Afghanistan	2	33,609	2	
Armenia	4	576,666	23	
Azerbaijan	1	400,000	2	
Belarus	5	337,000	45	
Georgia	7	1,403,000	18	
Kazakhstan	4	693,000	21	

Kyrgyzstan	1	400,000	2
Moldova	2	221,200	?
Russia	109	16,224,601	471
Tajikistan	1	30,000	3
Turkmenistan	1	135,000	2
Ukraine	23	4,079,524	117
Uzbekistan	1	1,000,000	5
TOTAL	13	161	25,533,600

EASTERN & SOUTHEAST ASIA

Bangladesh	1	100,000	13
Bhutan	1	14,700	1
Brunei			
Darussalam	2	90,000	3
Cambodia	1	12,500	5
India	83	5,414,974	401
Indonesia	8	2,175,683	47
Iran	29	929,904	106
Iraq	10	182,500	30
Israel	4	761,900	15
Japan	62	11,188,850	209
Jordan	1	5,150	2
Republic of			
Korea	38	2,709,717	151
Kuwait	1	20,000	5
Laos	2	8,700	4
Lebanon	1	68,000	1
Malaysia	13	876,876	63
Mongolia	1	123,000	3
Myanmar	4	45,500	2
Nepal	2	181,800	25
Oman	3	21,331	5
Pakistan	15	676,300	45
Papua New			
Guinea	4	327,093	11
People's			
Republic of			
China	328	19,336,070	1270
Philippines	16	456,887	60
Saudi Arabia	6	113,500	17
Singapore	1	33,695	15
Sri Lanka	2	132,000	3
Taiwan	15	1,376,739	66
Thailand	14	568,139	99
Turkey	44	1,038,509	238

	United Arab Emirates	1	7,000	1
	Vietnam	14	1,050,722	86
	Yemen	1	5,500	3
TOTAL	33	728	50,053,239	3005
AUSTRALASIA				
	Australia	38	8,011,661	246
	New Zealand	12	1,585,556	66
TOTAL	2	50	9,597,217	312
PACIFIC				
	Fiji	1	40,000	1
	French Polynesia	2	20,000	3
	Guam	2	60,775	4
	New Caledonia	1	80,000	7
	Republic of Palau	2	3,750	3
	Solomon Islands	1	35,000	3
	Tonga	1	3,030	2
	Vanuatu	1	6,000	2
TOTAL	8	11	248,555	25
NORTH AMERICA				
	Canada	86	9,206,389	199
	Greenland	1	500	0
	Mexico	64	4,924,129	368
	U.S.A.	641	76,101,221	1597
TOTAL	4	792	90,232,239	2164
SOUTH AMERICA				
	Argentina	46	4,808,279	490
	Bahamas	1	7,215	6
	Barbados	1	5,000	1
	Belize	1	10,000	2
	Bolivia	4	410,000	37
	Brazil	146	7,373,747	819
	Cayman Islands	1	1,369	1
	Chile	15	521,231	58
	Colombia	32	1,384,671	110
	Costa Rica	6	632,200	28
	Cuba	12	807,527	97
	Dominican Republic	4	175,045	10
	Ecuador	15	747,921	58

El Salvador	3	75,500	6
Falkland Islands	1	2,750	1
French Guiana	1	170,000	7
Guadeloupe	1	10,000	2
Guatemala	5	138,903	38
Guyana	2	57,800	4
Haiti	1	7,216	1
Honduras	5	309,621	6
Jamaica	2	159,790	4
Nicaragua	3	42,500	11
Panama	4	138,242	18
Paraguay	4	132,500	18
Peru	16	837,950	98
Puerto Rico	5	167,430	10
Suriname	1	37,000	1
Trinidad	1	70,000	4
Uruguay	5	217,000	30
Venezuela	19	1,001,298	93
Virgin Islands, U.S.A.	1	3,000	1
TOTAL	32	364	20,462,705
Grand Total	176	2962	381,308,064

II. The 100 (104) Largest Herbaria in the World

Rank	Institution Name	Code	Country	Specimens	Year Founded
1	Muséum National d'Histoire Naturelle	P	France	8,000,000	1635
2	New York Botanical Garden	NY	U.S.A.	7,800,000	1891
3	V. L. Komarov Botanical Institute	LE	Russia	7,160,000	1823
4	Royal Botanic Gardens	K	U.K.	7,000,000	1852
5	<i>Naturalis</i> ¹	L, WAG, U	Netherlands	6,900,000	1819, 1829, 1896
6	Missouri Botanical Garden	MO	U.S.A.	6,600,000	1859
7	Conservatoire et Jardin botaniques de la Ville de Genève	G	Switzerland	6,000,000	1824
8	Naturhistorisches Museum Wien	W	Austria	5,500,000	1807
9	The Natural History Museum	BM	U.K.	5,200,000	1753
10	Harvard University	<i>HUH</i> ²	U.S.A.	5,005,000	1842
11	Museo di Storia Naturale dell'Università	FI	Italy	5,000,000	1842

12	Smithsonian Institution	US	U.S.A.	5,000,000	1848
13	Swedish Museum of Natural History	S	Sweden	4,570,000	1739
14	Université Claude Bernard	LY	France	4,400,000	1924
15	Jardin Botanique National de Belgique	BR	Belgium	4,000,000	1870
16	Botanischer Garten und Botanisches Museum Berlin-Dahlem	B	Germany	3,800,000	1815
17	Université Montpellier II	MPU	France	3,500,000	1809
18	Friedrich-Schiller-Universität Jena	JE	Germany	3,500,000	1896
19	University of Helsinki	H	Finland	3,290,501	1751
20	Botanische Staatssammlung München	M	Germany	3,200,000	1813
21	Uppsala University	UPS	Sweden	3,100,000	1785
22	Royal Botanic Garden	E	U.K.	3,000,000	1839
23	University of Copenhagen	C	Denmark	2,797,000	1759
24	Field Museum of Natural History	F	U.S.A.	2,700,000	1893
25	Institute of Botany, Chinese Academy of Sciences	PE	People's Republic of China	2,650,000	1928
26	Botanical Museum (Lund)	LD	Sweden	2,500,000	1770
27	Charles University	PRC	Czech Republic	2,200,000	1775
28	University of California	UC	U.S.A.	2,100,000	1872
29	National Academy of Sciences of Ukraine	KW	Ukraine	2,048,200	1921
30	National Museum in Prague	PR	Czech Republic	2,000,000	1818
31	Muséum National d'Histoire Naturelle	PC	France	2,000,000	1904
32	Botanical Survey of India	CAL	India	2,000,000	1793
33	Herbarium Bogoriense	BO	Indonesia	2,000,000	1841
34	Eidgenössische Technische Hochschule Zürich	ZT	Switzerland	2,000,000	1859
35	California Academy of Sciences	CAS	U.S.A.	2,000,000	1853
36	Hungarian Natural History Museum	BP	Hungary	1,831,000	1870
37	Institut für Allgemeine Botanik	HBG	Germany	1,800,000	1879
38	Botanical Museum	O	Norway	1,800,000	1863
39	University of Michigan	MICH	U.S.A.	1,750,000	1837
40	University of Tokyo	TI	Japan	1,700,000	1877
41	National Science Museum	TNS	Japan	1,636,000	1877
42	Göteborg University	GB	Sweden	1,600,000	1926
43	Agriculture and Agri-Food Canada	DAO	Canada	1,550,000	1886
44	Royal Botanic Gardens	MEL	Australia	1,500,000	1853
45	Universität Zürich	Z	Switzerland	1,500,000	1834
46	Academy of Natural Sciences	PH	U.S.A.	1,430,000	1812

47	Universität Wien	WU	Austria	1,400,000	1879
48	Universidad Nacional Autónoma de México	MEXU	Mexico	1,400,000	1888
49	Real Jardín Botánico	MA	Spain	1,400,000	1755
50	Polish Academy of Sciences	KRAM	Poland	1,227,500	1867
51	Royal Botanic Gardens	NSW	Australia	1,200,000	1896
52	Forschungsinstitut Senckenberg	FR	Germany	1,200,000	1817
53	Kyoto University	KYO	Japan	1,200,000	1921
54	National Botanical Institute	PRE	South Africa	1,200,000	1903
55	Rancho Santa Ana Botanic Garden	RSA	U.S.A.	1,183,000	1927
56	Karl-Franzens-Universität Graz	GZU	Austria	1,180,000	1900
57	Centre for Plant Biodiversity Research	CANB	Australia	1,124,812	1930
58	Campus Scientifique de Beaulieu	REN	France	1,120,000	1840
59	Università degli Studi di Roma La Sapienza	RO	Italy	1,120,000	1872
60	Kunming Institute of Botany, Chinese Academy of Sciences	KUN	People's Republic of China	1,114,000	1938
61	Instituto Politécnico Nacional	ENCB	Mexico	1,080,000	1943
62	University of Wisconsin	WIS	U.S.A.	1,078,000	1849
63	Plant Biodiversity Centre	AD	Australia	1,040,000	1954
64	Moscow State University	MW	Russia	1,011,253	1765
65	Botanical Research Institute of Texas	BRIT	U.S.A.	1,010,000	1987
66	University of Texas at Austin	TEX	U.S.A.	1,006,000	1900
67	Georgian Academy of Sciences	TBI	Georgia	1,000,000	1894
68	Staatliches Museum für Naturkunde	STU	Germany	1,000,000	1791
69	Università degli Studi di Torino	TO	Italy	1,000,000	1750
70	National Museums of Kenya	EA	Kenya	1,000,000	1902
71	South China Institute of Botany, Academia Sinica	IBSC	People's Republic of China	1,000,000	1928
72	University of Cambridge	CGE	U.K.	1,000,000	1761
73	University of Manchester	MANCH	U.K.	1,000,000	1835
74	National Academy of Science, Uzbekistan	TASH	Uzbekistan	1,000,000	1921
75	U.S. National Fungus Collections	BPI	U.S.A.	950,000	1869
76	University of Wyoming	RM	U.S.A.	933,000	1894
77	University of Turku	TUR	Finland	932,700	1919
78	Moravian Museum	BRNM	Czech Republic	903,000	1818
79	University of Minnesota	MIN	U.S.A.	880,000	1890
80	Cornell University	BH	U.S.A.	845,000	1935
81	Brisbane Botanic Gardens Mt Coot-tha	BRI	Australia	839,000	1881
82	Jagiellonian University	KRA	Poland	800,000	1780
83	University of Coimbra	COI	Portugal	800,000	1772

84	Institut Botànic de Barcelona	BC	Spain	800,000	1917
85	Musée et Jardins Botanique Cantonaux	LAU	Switzerland	800,000	1824
86	Duke University	DUKE	U.S.A.	800,000	1932
87	University of North Carolina	NCU	U.S.A.	800,000	1903
88	Université Laval	QFA	Canada	770,000	1962
89	Department of Conservation and Land Management	PERTH	Australia	750,000	1929
90	Universität Göttingen	GOET	Germany	750,000	1832
91	Singapore Botanic Gardens	SING	Singapore	750,000	1880
92	Bishop Museum	BISH	U.S.A.	750,000	1908
93	Université de Montréal	MT	Canada	745,000	1920
94	Hebrew University	HUJ	Israel	725,000	1928
95	Fundación Miguel Lillo	LIL	Argentina	720,000	1931
96	Jardim Botânico do Rio de Janeiro	RB	Brazil	715,000	1890
97	Instituto de Botánica Darwinion	SI	Argentina	700,000	1911
98	Oberösterreichischen Landesmuseums	LI	Austria	700,000	1833
99	University of Aarhus	AAU	Denmark	700,000	1963
100	Muséum d'Histoire Naturelle de Grenoble	GRM	France	700,000	1851
101	University of Bergen	BG	Norway	700,000	1825
102	Institute of Botany, Jiangsu Province and Chinese Academy of Sciences	NAS	People's Republic of China	700,000	1923
103	Saint Petersburg State University	LECB	Russia	700,000	1823
104	National Center for Natural Sciences and Technology	HN	Vietnam	700,000	1960
TOTAL SPECIMENS				213,269,966	

¹ *Naturalis* now houses L, WAG, and U although they are curated as separate collections

² "HUH" is an informal code for the Harvard University Herbaria, which includes A, AMES, ECON, FH, GH, NEBC.

III. Herbaria Newly Added in 2016

Note that herbaria newly added are not necessarily new herbaria, but are those that for some reason were never registered previously.

Region/ Country	Code	City/Town	Institution	Specimen Total
<u>EUROPE</u>				
Croatia	DEND	Zagreb	University of Zagreb	7,000
France	MTL	Albi Cedex	Musée Toulouse Lautrec d'Albi	7,000
France	AUR	Aurillac	Muséum des Volcans	14,470

France	CHBY	Chambery	Museum d'Histoire Naturelle de Chambéry	120,000
France	PNC	Florac	Parc National des Cevennes	1,653
France	ANVL	Fontainbleau	Association des Naturalistes de la Vallée du Loing et du Massif de Fontainebleau	5,000
France	PUY	Le Puy-En-Velay	Musée Crozatier	9,000
France	MENDE	Mende	Musée Ignon-Fabre	5,000
France	METZ	Metz	Musée de la Cour d'Or – Metz Métropole	5,000
France	EIDM	Montpellier	EID Méditerranée	1,000
France	MAB	Moulins	Musée Anne de Beaujeu	5,000
France	SLA	Rodez Cedez	Societe des Lettres, Sciences et Arts de l'Aveyron	150,000
France	EPF	Saint-Jeans-des-Vignes	Espace Pierres Folles	5,000
France	MTRO	Troyes	Muséum de Troyes	70,000
Greece	ATHUM	Athens	National and Kapodistrian University of Athens Mycetotheca	10,000
Hungary	MRGT	Budapest	Friends of Hungarian Rose- and Hawthorn-friends Society	15,000
Hungary	KBM	Keszthely	Balaton Museum	9,000
Netherlands	TDH	Nijeholtwolde	Herbarium Teddy M. Dolstra ((Het Stellingwerfs Herbarium)	2,500
Spain	ERD	Avilés	Enrique Rubio Domínguez Herbarium	7,000
Switzerland	NMSG	St. Gallen	Naturmuseum St. Gallen	100,000
20				548,623
<u>AFRICA</u>				
Algeria	ENSA	Algiers	Ecole Nationale Supérieure Agronomique	12,165
Egypt	SUH	Sohag	Sohag University	12,000
Ethiopia	HUHE	Dire Dawa	Haramaya University	30,580
Madagascar	CNARP	Antananarivo	Centre National d' Application de Recherches Pharmaceutiques	20,000
4				74,745
<u>CENTRAL ASIA & MIDDLE EAST</u>				
Russia	ZHR	Bakhilova Polyana Village	Zhiguli State Nature Reserve	8,600

Russia	GARIN	Borok	I. N. Garin Society for Studying of the Flora of the Yaroslavl oblast	11,072
Russia	YSU	Khanty-Mansiysk	The Yugra State University Biological Collections	5,000
Russia	KAM	Petropavlovsk-Kamchatsky	Kamchatka Branch of Pacific Geographical Institute (KB PGI) FEB RAS	7,700
Russia	TMN	Tyumen	Institute of the Problems of Northern Development, SB RAS	40,000
Ukraine	UM	Uman	Uman National University of Horticulture	217,712
6				290,084
<u>EASTERN & SOUTHEAST ASIA</u>				
China	GNNU	Ganzhou	Gannan Normal University	21,098
China	GMB	Guiyang City	Guizhou Medical University	50,000
India	PRAGATI	Hyderabad	Pragati Green Meadows	2,500
India	KUBH	Thiruvananthapuram	University of Kerala	7,362
Iran	HUMZ	Baboslar	University of Mazandaran	20,000
Iran	IMPH	Halejerd, Karaj	Institute of Medicinal Plants, ACECR	5,000
Iran	ICH	Teheran	Iranian Research Organization for Science and Technology (IROST)	2,000
Iran	MMTT	Teheran	Department of Environment Islamic Republic of Iran	40,000
Iraq	DPUH	Duhok	University of Duhok	2,930
Iraq	KBFH	Sulaimani	Kurdistan Botanical Foundation	35,000
Malaysia	UMTP	Kuala Terengganu	Universiti Malaysia Terengganu	5,000
Oman	OBG	Muscat	Oman Botanic Garden	1,930
Pakistan	MUH	Bhimber City	Mirpur University of Science & Technology	12,000
Pakistan	BGH	Chakdara	University of Malakand	2,000
People's Republic of China	ICBR	Beijing	International Centre for Bamboo and Rattan	15,000
People's Republic of China	JLDC	Changchun	Jilin Institute for Drug Control	6,000

Philippines	USTH	Manila	University of Santo Tomas	11,000
Republic of Korea	KSM	Daejeon	National Science Museum	60,000
Saudi Arabia	JAZUH	Jizan	Jazan University	2,000
Turkey	VPH	Van, Tusba	Yuzuncu Yil University	1,200
Subtotal	20			302,020
<u>AUSTRALASIA</u>				
Australia	IBRG	Sydney	Macquarie University Indigenous Bioresources Research Group (IBRG)	125
Subtotal	1			125
<u>NORTH AMERICA</u>				
Canada	UADBG	Edmonton	University of Alberta Devonian Botanic Garden	34,000
U.S.A.	NCZP	Asheboro	North Carolina Zoological Park	1,800
U.S.A.	BENN	Bennington	Bennington College	2,500
U.S.A.	INF	Bishop	Inyo National Forest	4,000
U.S.A.	FLH	Canandaigua	Finger Lakes Community College	15,000
U.S.A.	DRK	Des Moines	Drake University	3,400
U.S.A.	MSUNH	Havre	Montana State University Northern	5,000
U.S.A.	KFRA	Klamath Falls	Klamath Falls Resource Area, BLM	2,426
U.S.A.	DSUM	Madison	Dakota State University	6,000
U.S.A.	UTM	Martin	University of Tennessee at Martin	5,000
U.S.A.	PEMB	Pembroke	University of North Carolina at Pembroke	4,500
U.S.A.	ENMU	Portales	Eastern New Mexico University Natural History Museum	6,500
U.S.A.	NCMS	Raleigh	North Carolina Museum of Natural Sciences	5,000
U.S.A.	SCIR	Santa Barbara	Santa Cruz Island Reserve, UCSB Natural Reserve System	3,000
U.S.A.	WEWO	Southern Pines	Weymouth Woods Sandhills Nature Preserve	1,800
U.S.A.	ZNP	Springdale	Bryce Canyon National Park, Cedar Breaks National Monument, and Zion National Park	6,456
U.S.A.	REH	Waleska	Reinhardt University	500
U.S.A.	SALK	Walterboro	University of South Carolina Salkehatchie	800
U.S.A.	AWC	Yuma	Arizona Western College	1,300
Subtotal	19			108,982

CENTRAL AMERICA, SOUTH AMERICA & THE CARIBBEAN

Brazil	HASSI	Assis	Universidade Estadual Paulista	2,400
Brazil	HVAT	Lajeado	Centro Universitário Univates	5,002
Brazil	HNUP	Maringá	Maringá State University	15,000
Brazil	HCJS	Parauapebas	Vale S/A	4,571
Brazil	ECT	Pelotas	Embrapa Clima Temperado	5,056
Brazil	HDELTA	São Benedito, Parnaíba	Universidade Federal do Piauí	2,500
Brazil	SPSC	São Carlos	Universidade Federal de São Carlos	8,853
Brazil	SAMES	São Mateus	Universidade Federal do Espírito Santo	7,282
Brazil	CTBS		Universidade Federal de Santa Catarina	2,000
Chile	UNCOQ	Coquimbo	Universidad Católica Norte	1,150
Chile	JBN	Viña del Mar	Fundacion Jardin Botanico Nacional	2,853
Colombia	HG	Riohacha	Universidad de la Guajira	7,062
Colombia	UNO		Fundación Universidad del Norte	2,000
Ecuador	QCAM	Quito	Pontificia Universidad Catolica del Ecuador	5,700
Peru	UFV	Lima	Universidad Nacional Federico Villarreal	5,000
Subtotal:	15			76,429
Grand Total: 85				1,401,008

IV. Herbaria Reported as Inactive in 2016

Note that some herbaria reported here became inactive prior to 2016, but were not reported as inactive previously.

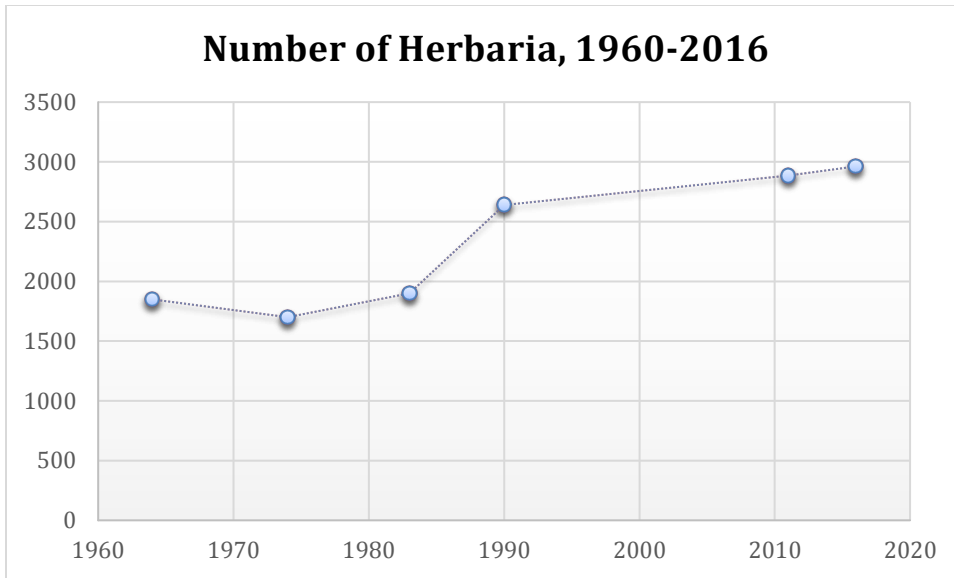
Region/ Country	Code	Institution	City	Specimens	Disposition of Specimens
EUROPE					
Germany	KAS	Universität Gesamthochschule Kassel	Kassel	35000	Transferred to MSB, except for Chenopodiaceae and Ephedraceae).

Denmark	CP	Royal Veterinary and Agricultural University	Frederiksberg	90000	Specimens have been incorporated into C.
Germany	BSB	Freie Universität Berlin	Berlin	15,000	Transferred to B.
<u>NORTH AMERICA</u>					
U.S.A.	UMO	University of Missouri	Columbia	236,000	Transferred to MO.
U.S.A.	NO	Tulane University	New Orleans	120000	Transferred to LSU in 2016. Fungi were transferred to NY in 2000.
<u>CENTRAL& SOUTH AMERICA & THE CARIBBEAN</u>					
Brazil	IOC	Fundação Oswaldo Cruz	Rio de Janeiro	1550	Unknown.

V. Change in the Number of Active Herbaria Over Time

Currently there are limited data points for tracking changes in the number of herbaria over time. The totals given in print editions of *Index Herbariorum* provide the data for the years 1964, 1974, 1983 and 1990. The total for 2011 is derived from a presentation on *Index Herbariorum* given at the International Botanical Congress in 2011 in Melbourne, Australia, and the total for 2016 is newly presented here. This total will be updated in annual *World's Herbaria* reports henceforth.

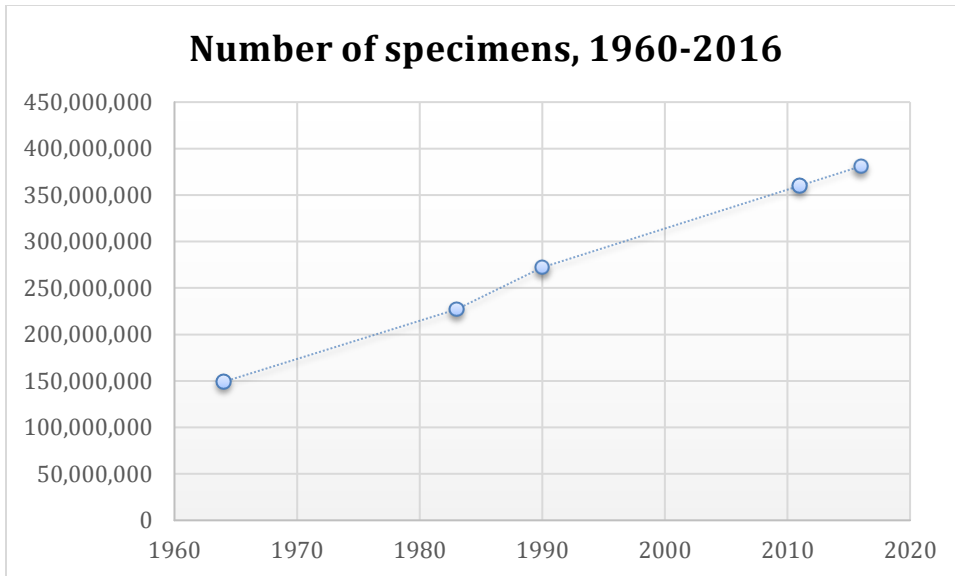
Year	# herbaria	Data Source
1964	1850	<i>Index Herbariorum</i> ed. 5
1974	1700	<i>Index Herbariorum</i> ed. 6
1983	1900	<i>Index Herbariorum</i> ed. 7
1990	2639	<i>Index Herbariorum</i> ed. 7
2011	2885	Archived dataset for IBC 2011 presentation
2016	2962	Archived dataset for <i>World's Herbaria 2016</i>



V. Change in the Number of Specimens Held in Herbaria Over Time

Currently there are also limited data points for tracking changes in the total number of specimens held by herbaria over time. The totals given in print editions of *Index Herbariorum* provide the data for the years 1964, 1983 and 1990. The total for 2011 is derived from a presentation on *Index Herbariorum* given at the International Botanical Congress in 2011 in Melbourne, Australia, and the total for 2016 is newly presented here. This total will be updated in annual *World's Herbaria* reports henceforth.

Year	# Specimens	Data Source
1964	149,000,000	<i>Index Herbariorum</i> ed. 5
1983	227,000,000	<i>Index Herbariorum</i> ed. 7
1990	272,000,000	<i>Index Herbariorum</i> ed. 7
2011	360,000,000	Archived dataset for IBC presentation
2016	381,000,000	Archived dataset for <i>World's Herbaria 2016</i>



CHANGES AHEAD FOR INDEX HERBARIORUM

A recent grant from the U.S. National Science Foundation will fund changes to *Index Herbariorum*, the first to be made in over 13 years. With this funding, the biodiversity information management team at The New York Botanical Garden will implement a system through which institutions can self-update *Index Herbariorum* records. The data structure will also be modified to include more information about the contents of herbaria and the status of collections digitization. An API will be made available to facilitate the inclusion of *Index Herbariorum* data in other applications. This work will take place during 2017, with completion hopefully in early 2018.