

The World's Herbaria 2017:
A Summary Report Based on Data from Index Herbariorum

Issue 2.1, published January 5, 2018 (Geographic arrangement corrected)

Barbara M. Thiers
Editor, *Index Herbariorum*

With this document The New York Botanical Garden issues the second *Index Herbariorum* annual report. Reports for 2016 and 2017 are available for download 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 changes in the number of herbaria and the specimens they hold 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 2017.

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, superceding 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 2017, there are **3001** active herbaria in the world, containing **387,007,790** specimens. These herbaria are found in **176** countries. Associated with these herbaria are **12,174** staff members and associates. During the past year, **73** new herbaria with a total of **1,099,507** specimens were added to *Index Herbariorum*, and **35** herbaria were reported as discontinued.

Last year we reported a total of 2962 herbaria with 381,308,064 specimens and 11,548 associated staff. The increases in all categories between 2016 and 2017 are due more to the correction existing data than actual growth within the last year. *Index Herbariorum* usually depends only on user input for updates, but this year, thanks to funding provided by the National Science Foundation, described in more detail below, interns Schuyler Borden and Roslyn Rivas have sought updates from all herbaria, and thus the data presented this year are far more accurate than those presented last year. Despite their efforts, several hundred herbaria remain unreachable.

CHANGES AHEAD FOR INDEX HERBARIORUM

A grant from the U.S. National Science Foundation (DBI grant # 1600051) has funded changes to *Index Herbariorum*. With this funding, the biodiversity information management team at The New York Botanical Garden has modified the structure of the database to include more information about the contents of herbaria (e.g., numbers of total specimens for the major groups of organisms stored in herbaria), the status of collections digitization, and the data portals through which the data can be accessed. We have created an API (<https://github.com/nybgvh/IH-API/wiki>) to facilitate the inclusion of *Index Herbariorum* data in other applications. We are in the final stages of testing a revised *Index Herbariorum* website through which herbaria will update their own information and new herbaria can self-register. All updates and new registrations will be provisional until reviewed and accepted by the Editor. We anticipate that the new website will be launched in January 2018.

Until the new self-update portal goes live, corrections to the data presented here can be made using “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 from *Index Herbariorum*. 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 mostly, except that Russia former members of the Soviet Union are all included under Temperate Asia

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	54
	Bosnia and Herzegovina	1	110,000	1
	Bulgaria	4	395,850	25
	Croatia	11	374,884	29
	Cyprus	2	13,069	6
	Czech Republic	45	8,340,711	139
	Denmark	2	3,497,000	36
	Estonia	7	1,062,406	31
	Finland	11	5,482,701	64
	France	73	27,076,696	151
	Germany	70	22,200,950	251
	Greece	10	532,340	44
	Hungary	9	2,378,790	37
	Iceland	2	164,000	8
	Ireland	6	850,517	11
	Isle of Man	1	3,000	1
	Italy	78	12,590,270	300
	Latvia	7	546,000	28
	Lithuania	4	467,100	30
	Luxembourg	1	50,000	9
	Macedonia	5	256,430	15
	Malta	1	10,000	1
	Montenegro	1	10,000	1
	Netherlands	15	7,426,719	61
	Norway	7	3,367,000	35
	Poland	32	5,253,533	197
	Portugal	19	1,899,801	73
	Romania	14	2,842,984	41
	Serbia & Montenegro	3	720,000	25
	Slovakia	17	1,227,687	73
	Slovenia	4	217,051	9
	Spain	56	6,185,254	391
	Sweden	9	12,437,000	58
	Switzerland	17	12,198,500	80
	U.K.	107	22,124,477	356

TOTAL	37	681	177,960,016	2,786
--------------	-----------	------------	--------------------	--------------

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	37
Djibouti	1	172	4
Egypt	13	733,500	89
Equatorial Guinea	1	8,000	2
Ethiopia	4	172,580	16
Gabon	1	65,000	9
Ghana	3	102,052	9
Ivory Coast	2	52,650	7
Kenya	2	1,300,000	17
Lesotho	3	21,600	10
Liberia	1	7,000	0
Libya	2	50,000	10
Madagascar	4	111,000	6
Malawi	1	100,000	13
Mali	1	6,400	4
Mauritania	1	6,200	3
Mauritius	1	25,000	1
Mayotte	1	4,500	2
Morocco	4	215,500	19
Mozambique	2	125,500	14
Namibia	1	94,000	7
Nigeria	7	186,500	24
Republic of Guinea	2	21,650	4
Réunion	2	15,960	17
Rwanda	1	16,702	2
São Tomé e Príncipe	1	1,500	2
Senegal	1	12,000	2

Seychelles	1	3,081	1
Sierra Leone	2	62,000	3
South Africa	45	3,278,890	121
Sudan	3	40,500	6
Swaziland	1	7,200	3
Tanzania	6	237,640	19
Togo	1	21,000	2
Uganda	4	131,767	5
Zambia	4	111,000	19
Zimbabwe	5	540,636	20
subtotal	47	167	8,958,724
			595

TEMPERATE ASIA

Afghanistan	2	33,609	2
Armenia	4	576,666	23
Azerbaijan	1	600,000	2
Belarus	5	528,156	46
Bhutan	1	15,000	1
Georgia	7	1,400,000	23
Iran	32	976,404	126
Iraq	10	185,331	30
Israel	4	761,900	12
Japan	66	11,606,850	233
Jordan	2	10,490	6
Kuwait	1	20,000	5
Kazakhstan	5	704,338	21
Kyrgyzstan	1	400,000	2
Lebanon	1	68,000	1
Moldova	2	221,200	2
Mongolia	1	123,000	1
Nepal	2	181,800	24
Oman	3	21,331	5
People's Republic of China	354	19,927,180	1,423
Republic of Korea	40	2,800,917	160
Russia	110	15,774,417	485
Saudi Arabia	6	113,500	17
Taiwan	15	1,418,259	68
Tajikistan	1	30,000	3
Turkey	44	1,066,424	248
Turkmenistan	1	135,000	2
Ukraine	25	3,956,285	117
United Arab Emirates	2	25,000	3

Uzbekistan	2	1,006,000	5
Yemen	1	5,500	3
subtotal	31	751	64,692,557
			3099

TROPICAL ASIA

Bangladesh	1	1,000,000	13
Brunei Darussalam	1	90,000	3
Cambodia	1	12,500	5
India	86	5,412,524	423
Indonesia	8	2,175,683	56
Laos	2	8,700	7
Malaysia	13	920,475	66
Myanmar	2	42,000	3
Pakistan	17	688,300	67
Papua New Guinea	3	324,000	11
Philippines	15	465,387	58
Singapore	2	783,695	18
Sri Lanka	2	132,000	3
Thailand	14	627,894	116
Vietnam	14	1,050,722	109
subtotal	15	181	13,733,880
			958

AUSTRALIA & NEW ZELAND

Australia	37	8,047,397	233
New Zealand	12	1,596,056	68
subtotal	2	49	9,643,453
			301

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
subtotal	8	11	248,555
			25

NORTH AMERICA

Canada	84	9,224,593	203
Greenland	1	500	0
Mexico	64	5,023,319	385
U.S.A.	646	76,703,165	1,697
subtotal	4	795	90,951,577
			2,285

CARIBBEAN, CENTRAL AMERICA AND SOUTH AMERICA			
Argentina	46	4,836,479	491
Bahamas	1	7,215	6
Barbados	1	5,000	2
Belize	1	10,000	2
Bolivia	4	410,000	37
Brazil	151	7,546,322	856
Cayman Islands	1	1,369	1
Chile	15	536,231	57
Colombia	32	1,516,261	115
Costa Rica	6	632,200	31
Cuba	12	807,527	96
Dominican Republic	3	175,045	10
Ecuador	15	758,007	56
El Salvador	3	83,000	6
Falkland Islands	1	1,135	1
French Guiana	1	170,000	7
Guadeloupe	1	10,000	2
Guatemala	5	138,903	39
Guyana	3	57,850	5
Haiti	1	7,216	1
Honduras	5	309,621	10
Jamaica	2	161,600	4
Nicaragua	3	42,500	11
Panama	4	138,242	16
Paraguay	4	132,500	18
Peru	16	820,950	104
Puerto Rico	5	167,430	9
Suriname	1	37,000	1
Trinidad	1	70,000	4
Uruguay	5	217,000	30
Venezuela	16	1,009,092	96
Virgin Islands, U.S.A.	1	3,333	1
subtotal	32	366	20,819,028
Grand Total	176	3,001	387,007,790

II. The Largest Herbaria in the World

This list includes those herbaria that fall within the top 100 size classes. Effectively, this includes all herbaria with more than 400,000 specimens.

Rank	Organization	Code	Country	Specimens	Year Founded
1	Muséum National d'Histoire Naturelle	P	France	8,000,000	1635
2	The New York Botanical Garden	NY	U.S.A.	7,800,000	1891
3	Royal Botanic Gardens	K	U.K.	7,000,000	1852
4	Naturalis	<i>L, WAG, U¹</i>	Netherlands	6,900,000	1819, 1829, 1896
5	Missouri Botanical Garden	MO	U.S.A.	6,600,000	1859
6	Conservatoire et Jardin botaniques de la Ville de Genève	G	Switzerland	6,000,000	1824
6	Komarov Botanical Institute of RAS	LE	Russia	6,000,000	1823
7	Naturhistorisches Museum Wien	W	Austria	5,500,000	1807
8	The Natural History Museum	BM	U.K.	5,200,000	1753
9	Harvard University	<i>HUH²</i>	U.S.A.	5,005,000	1842
10	Natural History Museum	FI	Italy	5,000,000	1842
10	Smithsonian Institution	US	U.S.A.	5,000,000	1848
11	Swedish Museum of Natural History	S	Sweden	4,570,000	1739
12	Université Claude Bernard	LY	France	4,400,000	1924
13	Botanic Garden Meise	BR	Belgium	4,000,000	1870
14	Botanischer Garten und Botanisches Museum Berlin-Dahlem	B	Germany	3,800,000	1815
15	Université de Montpellier	MPU	France	3,500,000	1809
15	Friedrich-Schiller-Universität Jena	JE	Germany	3,500,000	1896
16	University of Helsinki	H	Finland	3,350,501	1751
17	Botanische Staatssammlung München	M	Germany	3,200,000	1813
18	Museum of Evolution	UPS	Sweden	3,100,000	1785
19	Royal Botanic Garden Edinburgh	E	U.K.	3,000,000	1839
20	University of Copenhagen	C	Denmark	2,797,000	1759
21	Field Museum of Natural History	F	U.S.A.	2,700,000	1893
22	Institute of Botany, Chinese Academy of Sciences	PE	People's Republic of China	2,650,000	1928
23	Lund University	LD	Sweden	2,500,000	1770
24	Charles University in Prague	PRC	Czech Republic	2,200,000	1775
24	California Academy of Sciences	CAS	U.S.A.	2,200,000	1853
25	University of California	UC	U.S.A.	2,100,000	1872
26	National Academy of Sciences of Ukraine	KW	Ukraine	2,048,200	1921
27	National Museum in Prague	PR	Czech Republic	2,000,000	1818
27	Muséum National d'Histoire Naturelle	PC	France	2,000,000	1904
27	Eidgenössische Technische Hochschule Zürich	ZT	Switzerland	2,000,000	1859
27	Botanical Survey of India	CAL	India	2,000,000	1793
27	Research Centre for Biology	BO	Indonesia	2,000,000	1841
28	Hungarian Natural History Museum	BP	Hungary	1,831,000	1870
29	National Museum of Nature and Science	TNS	Japan	1,822,000	1877

30	Biozentrum Klein-Flottbek, Universität Hamburg	HBG	Germany	1,800,000	1879
30	Botanical Museum, University of Oslo	O	Norway	1,800,000	1863
31	University of Michigan	MICH	U.S.A.	1,750,000	1837
32	University of Tokyo	TI	Japan	1,700,000	1877
33	University of Gothenburg	GB	Sweden	1,600,000	1926
34	Agriculture and Agri-Food Canada	DAO	Canada	1,550,000	1886
34	Universität Zürich	Z	Switzerland	1,500,000	1834
34	Royal Botanic Gardens Victoria	MEL	Australia	1,500,000	1853
35	Botanical Research Institute of Texas	BRIT	U.S.A.	1,482,000	1987
36	Academy of Natural Sciences	PH	U.S.A.	1,430,000	1812
37	Universität Wien	WU	Austria	1,400,000	1879
37	Real Jardín Botánico	MA	Spain	1,400,000	1755
37	Universidad Nacional Autónoma de México	MEXU	Mexico	1,400,000	1888
38	Polish Academy of Sciences	KRAM	Poland	1,227,500	1867
39	Rancho Santa Ana Botanic Garden	RSA	U.S.A.	1,210,230	1927
40	Senckenberg Forschungsinstitut und Naturmuseum	FR	Germany	1,200,000	1817
40	South African National Biodiversity Institute	PRE	South Africa	1,200,000	1903
40	Kyoto University	KYO	Japan	1,200,000	1921
40	Royal Botanic Gardens & Domain Trust	NSW	Australia	1,200,000	1896
41	Karl-Franzens-Universität Graz	GZU	Austria	1,180,000	1900
42	Australian National Herbarium	CANB	Australia	1,124,812	1930
43	Università degli Studi di Roma La Sapienza	RO	Italy	1,120,000	1872
44	Kunming Institute of Botany, Chinese Academy of Sciences	KUN	People's Republic of China	1,114,000	1938
45	Instituto Politécnico Nacional	ENCB	Mexico	1,080,000	1943
46	University of Wisconsin	WIS	U.S.A.	1,078,000	1849
47	State Herbarium of South Australia	AD	Australia	1,040,000	1954
48	Moscow State University	MW	Russia	1,030,669	1765
49	University of Texas at Austin	TEX	U.S.A.	1,006,000	1900
50	Staatliches Museum für Naturkunde	STU	Germany	1,000,000	1791
50	University of Turin	TO	Italy	1,000,000	1750
50	Cambridge University	CGE	U.K.	1,000,000	1761
50	University of Manchester	MANCH	U.K.	1,000,000	1835
50	National Museums of Kenya	EA	Kenya	1,000,000	1902
50	Georgian Academy of Sciences	TBI	Georgia	1,000,000	1894
50	Academy of Science, Uzbekistan	TASH	Uzbekistan	1,000,000	1921
50	South China Botanical Garden	IBSC	People's Republic of China	1,000,000	1928
51	U.S. National Fungus Collections, USDA-ARS	BPI	U.S.A.	950,000	1869
52	University of Wyoming	RM	U.S.A.	937,000	1894
53	University of Turku	TUR	Finland	932,700	1919

54	Moravian Museum	BRNM	Czech Republic	903,000	1818
55	University of Minnesota	MIN	U.S.A.	880,000	1890
56	Queensland Herbarium	BRI	Australia	861,161	1881
57	Cornell University	BH	U.S.A.	845,000	1935
58	Jagiellonian University	KRA	Poland	800,000	1780
58	University of Coimbra	COI	Portugal	800,000	1772
58	Institut Botànic de Barcelona	BC	Spain	800,000	1917
58	Musée et Jardins Botaniques Cantonaux	LAU	Switzerland	800,000	1824
58	Saint Petersburg University	LECB	Russia	800,000	1823
58	Duke University	DUKE	U.S.A.	800,000	1932
58	University of North Carolina	NCU	U.S.A.	800,000	1903
59	Université Laval	QFA	Canada	770,000	1962
60	Universität Göttingen	GOET	Germany	750,000	1832
60	Singapore Botanic Gardens	SING	Singapore	750,000	1880
60	Western Australian Herbarium	PERTH	Australia	750,000	1929
60	Bishop Museum	BISH	U.S.A.	750,000	1908
60	Jardim Botânico do Rio de Janeiro	RB	Brazil	750,000	1890
61	Université de Montréal	MT	Canada	745,000	1920
62	Hebrew University	HUJ	Israel	725,000	1928
63	Fundación Miguel Lillo	LIL	Argentina	720,000	1931
64	Instituto de Botánica Darwinion	SI	Argentina	700,000	1911
64	Oberösterreichischen Landesmuseums	LI	Austria	700,000	1833
64	Aarhus University	AAU	Denmark	700,000	1963
64	Muséum d'Histoire Naturelle de Grenoble	GRM	France	700,000	1851
64	University of Bergen	BG	Norway	700,000	1825
64	Institute of Botany, Jiangsu Province and Chinese Academy of Sciences National Center for Natural Sciences and Technology	NAS	People's Republic of China	700,000	1923
64		HN	Vietnam	700,000	1960
65	Brigham Young University	BRY	U.S.A.	661100	1923
66	Babes-Bolyai University	CL	Romania	660500	1873
67	University of British Columbia	UBC	Canada	660000	1912
68	Miami University	MU	U.S.A.	650000	1906
68	University of Washington	WTU	U.S.A.	650000	1882
69	Landcare Research	CHR	New Zealand	640000	1928
69	Iowa State University	ISC	U.S.A.	640000	1870
70	Masaryk University	BRNU	Czech Republic	634000	1921
71	Main Botanical Garden of the Russian Academy of Sciences	MHA	Russia	610000	1958
72	Universalmuseum Joanneum	GJO	Austria	600000	1811
72	National Museum	PRM	Czech Republic	600000	1818
72	UNIVEGE Université Clermont Auvergne	CLF	France	600000	1865

72	Leibniz Institute of Plant Genetics and Crop Plant Research (IPK)	GAT	Germany	600000	1946
72	National Botanic Gardens	DBN	Ireland	600000	1847
72	Università degli Studi di Padova	PAD	Italy	600000	1835
72	Azerbaijan National Academy of Sciences (ANAS)	BAK	Azerbaijan	600000	1827
72	United States National Arboretum, USDA/ARS	NA	U.S.A.	600000	1934
72	Universidad Nacional de Colombia	COL	Colombia	600000	1931
73	Canadian Museum of Nature	CAN	Canada	588000	1882
74	University of Alberta	ALTA	Canada	570500	1916
75	Michigan State University	MSC	U.S.A.	560000	1863
76	Istituto ed Orto Botanico	PAL	Italy	550000	1795
76	National Museum Wales	NMW	U.K.	550000	1912
76	Northwestern Institute of Botany	WUK	People's Republic of China	550000	1936
76	University of Tennessee	TENN	U.S.A.	550000	1888
76	Museu Nacional	R	Brazil	550000	1831
77	Carnegie Museum of Natural History	CM	U.S.A.	525000	1895
78	Institute of Applied Ecology, Academia Sinica	IFP	People's Republic of China	521000	1953
79	Gradina Botanica D. Brandza	BUC	Romania	520000	1882
79	University of Illinois	ILL	U.S.A.	520000	1869
80	Botanic Garden	SRGH	Zimbabwe	513736	1909
81	Arizona State University	ASU	U.S.A.	510000	1910
82	South African National Biodiversity Institute	NBG	South Africa	507000	1933
83	National Institute of Biological Resources	KB	South Korea	505512	2005
84	University of Oulu	OULU	Finland	500000	1959
84	Museum für Naturkunde	MSTR	Germany	500000	1872
84	Universität Tübingen	TUB	Germany	500000	
84	Università di Catania	CAT	Italy	500000	1858
84	Maria Curie-Skłodowska University	LBL	Poland	500000	1947
84	Wroclaw University	WRSL	Poland	500000	1821
84	University of Oxford	OXF	U.K.	500000	1621
84	Institute of Botany of the National Academy of Sciences of Armenia	ERE	Armenia	500000	1925
84	Tomsk State University	TK	Russia	500000	1885
84	Institute of Biology and Soil Science, Far Eastern Branch, Russian Academy of Sciences	VLA	Russia	500000	1916
84	University of Arizona	ARIZ	U.S.A.	500000	1891
84	University of Colorado Museum	COLO	U.S.A.	500000	1890
84	Ohio State University	OS	U.S.A.	500000	1891
84	IMBIV-Museo Botánico	CORD	Argentina	500000	1870
84	Museo de La Plata	LP	Argentina	500000	1887
84	Universidad Nacional Mayor de San Marcos	USM	Peru	500000	1918

85	Museo Nacional de Costa Rica	CR	Costa Rica	495000	1887
86	Natural History Museum	BEO	Serbia	490000	1895
86	Royal Ontario Museum	TRTC	Canada	490000	1887
87	Taiwan Forestry Research Institute	TAIF	Taiwan	489170	1904
88	Tohoku University	TUS	Japan	485000	1924
89	Instituto Nacional de Tecnología Agropecuaria	BAB	Argentina	480000	1899
89	Instituto de Botânica	SP	Brazil	480000	1917
90	Korea National Arboretum	KH	South Korea	470900	1999
91	Hattori Botanical Laboratory	NICH	Japan	470000	1946
91	Florida Museum of Natural History	FLAS	U.S.A.	470000	1892
92	Slovak National Museum	BRA	Slovakia	467394	1924
93	Instituto de Botánica del Nordeste	CTES	Argentina	460000	1965
94	Université de Neuchâtel	NEU	Switzerland	455000	
95	Institut de Botanique	STR	France	450000	1884
95	Martin-Luther-Universität	HAL	Germany	450000	1812
95	University of Warsaw	WA	Poland	450000	1917
95	Tokyo Metropolitan University	MAK	Japan	450000	1958
			People's Republic of		
95	Sichuan University, Jianghong Ran	SZ	China	450000	1935
96	Universidad Central de Venezuela	VEN	Venezuela	435000	1921
97	Norwegian University of Science and Technology	TRH	Norway	430000	1760
98	University of Tartu	TU	Estonia	425000	1802
99	Oregon State University	OSC	U.S.A.	415000	1886
100	University of Bern	BERN	Switzerland	410000	1861

TOTAL SPECIMENS

250,479,585³

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,

³ This number represents 64% of all herbarium specimens.

III. Herbaria Newly Added in 2017

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	Organization	Total
<u>EUROPE</u>				
France	MMH	Montbéliard	Museums of Montbéliard Müritzeum gGmbH / Naturhistorische Landessammlungen	100,000
Germany	NHMV	Waren (Müritz)	für Mecklenburg-Vorpommern	41,000
2				141,000
<u>AFRICA</u>				
Djibouti	HND	Djibouti	Centre d'Etude et de Recherche de Djibouti (CERD)	172
Egypt	BRPP	Cairo	Botanica Royal Park of Palm Hills	5000
Egypt	MAZHAR		Mazhar Botanical Garden	10,000
Ivory Coast	CSRS	Abidjian	Centre Suisse de Recherches Scientifiques en Côte d'Ivoire	12,650
Madagascar	DBEV	Antananarivo	University of Antananarivo	11,000
Mayotte	MAO	Coconi	Conservatoire Botanique National de Mascarin (Mayotte)	4500
6				43,322
<u>TEMPERATE ASIA</u>				
Iran	HUI	Isfahan	University of Isfahan	20,000
Iran	GILAN	Rasht	Agricultural and Natural Resources Research Center of Gilan	6000
Iran	IBRC	Karaj	Iranian Biological Resource Center	8500
Japan	OCF	Motobu	Okinawa Churasima Foundation	20,000
Japan	SMNH	Nagatoro-mach	Saitama Museum of Natural History	80,000
Japan	MIE	Tsu	Mie Prefectural Museum	32,000
Japan	TEU	Tokyo	Teikyo University	18,000
Jordan	NHJ	Tel Al-Rumman	Royal Botanic Garden, Jordan	5340
People's Republic of China	HMUT	Aral	Tarim University	12,000
People's Republic of China	IGA	Changchun	Northeast Institute of Geography and Agroecology, Chinese Academy of Sciences	35,000
People's Republic of China	JLAU	Changchun	Jilin Agricultural University	12,000
People's Republic of China	HHNNR	Changde	Hunan Hupingshan National Nature Reserve	50,031
People's Republic of China	NEGI	Dongguan	Herbarium Cepullae Sinicae	1500
People's Republic of China	QNUN	Duyun	Qiannan Normal University for Nationalities	30,000
People's Republic of China	SCAUB	Guangzhou	South China Agricultural University	25,000

People's Republic of China	ATCH	Hainan	Chinese Academy of Tropical Agricultural Sciences	100,000
People's Republic of China	HHE	Hubei Prov.	HouHe National Nature Reserve	2000
People's Republic of China	GWJ	Hunan Prov.	Gaowangjie National Nature Reserve	2000
People's Republic of China	SFGRH	Ji'nan	Sandong Forest Germplasm Resources Center	28,000
People's Republic of China	JGSU	Ji'an	Jinggangshan University	4000
People's Republic of China	YNTCEM	Kunming	Yunnan University of Traditional Chinese Medicine and Ethnomedicine	12,980
People's Republic of China	AF	Lhasa	Tibet Plateau Institute of Biology	9000
People's Republic of China	LCU	Liaocheng	Liaocheng University	10,000
People's Republic of China	XZE	Linzhi	Research Institute of Xizang Plateau Ecology	23,000
People's Republic of China	LPSNU	Liupanshui	Liupanshui Normal University	12,000
People's Republic of China	JSMI	Nantong	Jiangsu Marine Fisheries Research Institute	700
People's Republic of China	QFNU	Qufu	Qufu Normal University	60,000
People's Republic of China	HCNGB	Shenzhen	China National GeneBank	3299
People's Republic of China	SDFH	Weihai	Shandong Drug and Food Vocational College	10,000
People's Republic of China	HUNST	Xiangtan	Hunan University of Science and Technology	70,000
People's Republic of China	TY	Yuci	Shanxi College of Traditional Chinese Medicine	10,000
Russia	KCSU	Karachaevsk	Karachay-Circassian State University	10,000
Russia	SSHZ	Shushenskoe	Sayano-Shushensky State Nature Biosphere Reserve	17,000
Turkey	HARRAN	Şanlıurfa	Harran Üniversitesi	3000
Ukraine	BCK	Bila Tserkva	Alexandria State Dendrological Park	24,961
United Arab Emirates	EAD	Abu Dhabi	Environment Agency- Abu Dhabi	5000
36				772,311

TROPICAL ASIA

India	ICAR	Jodphur	ICAR-Central Arid Zone Research Institute	7000
India	ANUH	Nagarjunanagar	Acharya Nagarjuna University	10,000
India	FCP	Pune	Fergusson College	2000
India	AUV	Visakhapatnam	Andhra University	15,500
Pakistan	QUETTA	Quetta	University of Balochistan	1000
5				35,500

NORTH AMERICA

U.S.A.	SPIF	Anderson	Sierra Pacific Industries-Forestry	1857
U.S.A.	MC	Avery Island	Avery Island Archives	258
U.S.A.	BCWS	Capon Bridge	Burgundy Center for Wildlife Studies	450
U.S.A.	BLMCAR	Carson City	Carson City Field Office Bureau of Land Management	2500
U.S.A.	BDNF	Dillon	Beaverhead-Deerlodge National Forest	1101
U.S.A.	MCCC	Fort Bragg	Mendocino College Coast Center	6080
U.S.A.	HBSH	Highlands	Highlands Biological Station	2877
U.S.A.	JUFL	Jacksonville	Jacksonville University	2000
U.S.A.	JMH	Los Alamos	Los Alamos Nature Center	4000
U.S.A.	GCSU	Milledgeville	Georgia College and State University	1000
U.S.A.	AAMU	Normal	Alabama A. & M. University	
U.S.A.	PSH	Plymouth	Plymouth State University	20,000
U.S.A.	BLMRD	Redding	Redding Bureau of Land Management Field Office	1000
U.S.A.	LGBG	Richmond	Lewis Ginter Botanical Garden	4000
U.S.A.	AUGIE	Rock Island	Augustana College Herbarium Amanitarum	5000
U.S.A.	RET	Roosevelt	Rooseveltensis	9000
U.S.A.	TLU	Seguin	Texas Lutheran University	5000
U.S.A.	AHP	Soquel	American Herbal Pharmacopoeia	150
U.S.A.	NDOA	Sparks	Nevada Department of Agriculture EcoTarium ,Worcester Historical	1400
U.S.A.	ECOT	Worcester	Museum	4000
20				71,673
CARIBBEAN, CENTRAL AMERICA AND SOUTH AMERICA				
Brazil	UNOP	Cascavel	Universidade Estadual do Oeste do Paraná	13,257
Brazil	HUAM	Manaus	Universidade Federal do Amazonas	10,200
Brazil	MAR	São Luís	Universidade Federal do Maranhão	8500
Guyana	HJBG	Macouria	Jardin botanique de Guyane	50
Venezuela	HGV	Caracas	Instituto Venezolano de Investigaciones Científicas (IVIC)	3694
5				35,701
Grand Total:		73		1,099,507

IV. Herbaria Reported as Inactive in 2017

Note that some herbaria reported here became inactive prior to 2017, but were not reported as inactive previously.

Region/ Country	Code	Institution	City	Specimens	Notes/Disposition of Specimens
<u>EUROPE</u>					
Finland	HFR	Finnish Forest Research Institute	Vantaa	60,000	HFR was incorporated into H in November 2016.
France	VIL	Université de Paris-Sud	Paris	80,000	VIL dispersed in 1999
Hungary	BPU	Eötvös Loránd University Centre for Ecology and Hydrology	Budapest Abbots Ripton	35,000 6000	Transferred to BP. Disposition of specimens unknown.
U.K.	ABRN	Bedford College, University of London	Egham	unknown	Transferred to ENG, date unknown.
U.K.	BCW	Braintree and Bocking Natural History Club	Braintree	unknown	Transferred to Herbarium S. T. Jermyn.
U.K.	BREE	University of Edinburgh	Edinburgh	2500	Transferred to E, date unknown.
U.K.	EGHB	Stewarty Museum	Kirkcudbright	unknown	Apparently destroyed in 1949.
U.K.	KBT	Leicestershire Flora Committee	Leicester	unknown	Transferred to LSR and further transferred to Leicester City Service.
U.K.	LSRFC	Seale-Hayne Agricultural College	Newton Abbot	unknown	College closed in 2005-- Collection transferred to PLYP University.
U.K.	NAT	County Record Office Rowley's House Museum	Northallerton Ludlow	unknown	Disposition of specimens unknown.
U.K.	NTLN	Tresco Abbey	Tresco	unknown	Transferred to LDL. Disposition of specimens unknown.
U.K.	SHY	University of East Anglia	Norwich	unknown	Disposition of specimens unknown.
U.K.	TRES	United Services College North East Wales Institute	Westward Ho Wrexham	unknown 361	Disposition of specimens unknown.
U.K.	UEA				
U.K.	USCWH				
U.K.	WXM				
<u>TEMPERATE ASIA</u>					
People's Republic of China	WCU	West China University of Medical Sciences All-Union Botanical Society	Chengdu Nalchik	unknown 10,000	Transferred to SZ, date unknown. Transferred to KBHG, date unknown
Russia	AUBSN				

AUSTRALIA & NEW ZEALAND

Australia	CBG	Australian National Botanic Gardens	Canberra	250,000	Incorporated into CANB in Aug 2016, but continues to be cited as CBG. Pathology collection has been moved to DAR and NSWFW wood collection has been moved to NSW.
Australia	NSWF	State Forests of New South Wales	Beecroft	20,000	

NORTH AMERICA

Canada	PEI	Agriculture and Agri-Food Canada	Charlottetown	600	PEI in storage. Original herbarium destroyed by fire in 1951.
Canada	WINDM	Delta Marsh Field Station (University of Manitoba)	Portage la Prairie	3250	Transferred to Brandon University in Brandon, Manitoba.
U.S.A.	CRMC	College of the Redwoods, Mendocino Coast Campus	Eureka	5805	Transferred to MCCC in 2017.
U.S.A.	FNLO	Fremont National Forest California State University	Lakeview	20,000	Transferred to BLMLK in 1981.
U.S.A.	HAY		Hayward	6500	Disposition of specimens unknown.
U.S.A.	HPU	High Point University	High Point	5000	Disposition of specimens unknown.
U.S.A.	HUBE	Golden West College	Huntington Beach	600	Disposition of specimens unknown.
U.S.A.	KESC	Keene State College	Keene	15,000	Transferred to NHA.
U.S.A.	MCP	Massachusetts College of Pharmacy and Allied Health Sciences	Boston	unknown	Transferred to BRIT.
U.S.A.	MUS	Muskingum College	New Concord	23,000	Herbarium in storage.
U.S.A.	NLU	University of Louisiana at Monroe	Monroe	472,000	Transferred to BRIT in 2017.
U.S.A.	RED	University of Redlands	Redlands	4000	Red algae collections of G. J. Hollenberg transferred to GMS. Disposition of other specimens unknown.
U.S.A.	SCIR	Santa Cruz Island Reserve, UCSB Natural Reserve System	Santa Barbara	3000	Transferred to UCSB in September 2017.

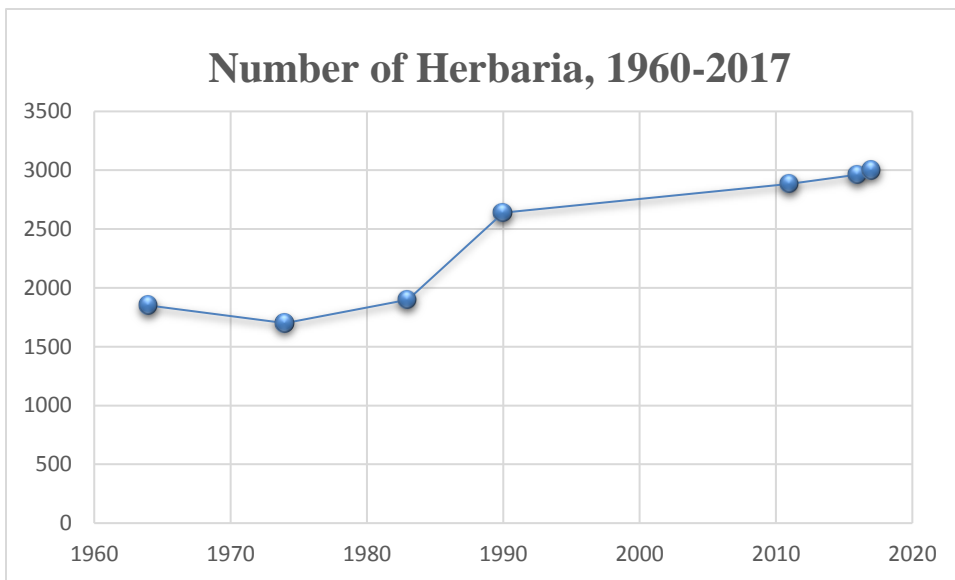
CARIBBEAN, CENTRAL AMERICA AND SOUTH AMERICA

Brazil	GUA	DIVEA, DEP, FEEMA	Rio de Janeiro	unknown	Incorporated into RB.
Brazil	IOC	Fundação Oswaldo Cruz	Rio de Janeiro	1550	Collection is inactive.

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. This total is 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>
2017	3001	Archived dataset for <i>World's Herbaria 2017</i>



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

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>
2017	387,007,790	Archived dataset for <i>World's Herbaria 2017</i>

