

## The World's Herbaria 2019:

### *A Summary Report Based on Data from Index Herbariorum*

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This document represents the third *Index Herbariorum* annual report. Reports for 2016 - 2018 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 over time in the number of herbaria and the specimens they hold. 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 make changes in their own herbaria and alert me to changes in other herbaria. The statistics provided in this report reflect the content of the database as of 15 December 2019.

## BACKGROUND

The International Association for Plant Taxonomy (IAPT) established *Index Herbariorum* in 1935, and 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 15 December 2019, there are **3324** active herbaria in the world (229 more than last year), containing **392,353,689** specimens (4,739,636 more than last year). The increase in the number of herbaria requires explanation. During the past year, 99 herbaria were newly registered; the remainder of the increase comes from the restoration to active status of herbaria previously considered inactive. A lack of updates for more than 20 years led me last year to the decision to consider such herbaria inactive. However, during the past year, staff associated with a

number of herbaria so designated informed us that the collections were indeed active. So, I decided to move all herbaria that had been judged inactive based on these assumptions back to the active state. This year, **7** herbaria were reported as discontinued. There are **178** countries with at least one herbarium, same as in 2018.

Associated with these herbaria are **12,135** staff members and associates, 143 fewer than last year. This decline in staff is due mostly to the removal from the report of individuals born before 1930, on the assumption that no one over 90 years old is likely to still be actively associated with herbaria, and that failure to remove them from the index is an oversight.

2019 was the second full year for the self-registration and self-update protocol whereby herbarium administrators make changes to the records for their own collections and associated staff, and new herbaria submit their own record entry. Based on these two years of experience with the new registration and update protocol, its implementation has led to an increase in both activities.

## SUMMARY TABLES AND GRAPHS

The tables and charts included here reflect the most requested types of summary information from *Index Herbariorum*. 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 for the most part, except that Russia former members of the Soviet Union are all included under Temperate Asia.

### Summary of herbaria by Region and Country

Region	Country	Herbaria	Specimens	Staff & Associates
EUROPE				
	Andorra	1	1,068	1
	Austria	19	10923710	113
	Belgium	9	5136944	53
	Bosnia and Herzegovina	2	112,000	4
	Bulgaria	4	422,200	24
	Croatia	12	377,884	29
	Cyprus	2	6,600	6
	Czech Republic	45	8,414,593	138
	Denmark	2	3,600,000	34
	Estonia	7	1,062,406	31
	Finland	11	5,482,701	61
	France	85	24,012,446	173

Germany	70	22,450,100	254
Greece	12	535,914	34
Hungary	13	2,637,414	40
Iceland	2	164,000	5
Ireland	7	923,517	12
Isle of Man	1	3,000	1
Italy	84	11,592,884	309
Latvia	7	581,600	25
Lithuania	4	467,100	26
Luxembourg	1	50,000	7
Macedonia	5	171,500	15
Malta	1	10,000	1
Montenegro	1	10,000	4
Netherlands	14	7,385,919	65
Norway	7	3,367,000	30
Poland	33	5,407,733	194
Portugal	19	1,900,801	68
Romania	16	2,842,984	39
Serbia & Montenegro	4	720,000	27
Slovakia	18	1,235,905	75
Slovenia	4	220,000	9
Spain	56	6,087,546	380
Sweden	10	11,873,000	56
Switzerland	17	12,020,343	82
U.K.	223	234,641,42	369
<b>TOTAL</b>	<b>37</b>	<b>828</b>	<b>175,674,954</b>
<b>2794</b>			

## AFRICA

Algeria	3	377,365	5
Angola	3	125,000	2
Benin	2	22,000	7
Botswana	5	34,479	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	11	298,444	44

Djibouti	1	172	4	
Egypt	13	733,500	91	
Equatorial Guinea	1	8,000	2	
Ethiopia	4	172,580	16	
Gabon	1	65,000	10	
Ghana	4	102,052	9	
Ivory Coast	3	62,650	8	
Kenya	2	1,300,000	17	
Lesotho	3	21,600	10	
Liberia	1	7,000	0	
Libya	2	50,000	9	
Madagascar	4	421,000	7	
Malawi	1	100,000	13	
Mali	1	6,400	4	
Mauritania	1	6,200	3	
Mauritius	1	25,000	1	
Mayotte	1	5,400	2	
Morocco	6	222,549	21	
Mozambique	2	125,350	14	
Namibia	1	94,000	7	
Nigeria	10	213,550	26	
Republic of Guinea	2	21,650	4	
Réunion	1	11500	6	
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	3	
Somalia	1	236	1	
South Africa	46	3,299,993	147	
Sudan	3	35,500	6	
Swaziland	1	7,200	3	
Tanzania	7	248645	19	
Togo	1	21,000	2	
Tunisia	1	200	1	
Uganda	4	131,767	5	
Zambia	4	111,000	19	
Zimbabwe	5	540,636	18	
subtotal	49	179	9,357,207	627

## TEMPERATE ASIA

Afghanistan	2	33,609	2	
Armenia	4	576,820	20	
Azerbaijan	1	600,000	1	
Belarus	5	528,156	46	
Bhutan	1	15,000	6	
Djibouti	1	172	4	
Georgia	7	1,398,821	24	
Iran	38	1,053,132	134	
Iraq	10	185,331	30	
Israel	5	1,237,720	9	
Japan	69	12,334,980	233	
Jordan	2	10,490	6	
Kazakhstan	4	693,000	22	
Kuwait	1	20,000	4	
Kyrgyzstan	1	400,000	2	
Lebanon	1	68,000	1	
Moldova	2	221,200	2	
Mongolia	2	138,000	5	
Nepal	2	1,850,000	24	
Oman	3	24401	6	
Palestinian Territories	1	755	2	
People's Republic of China	361	20,159,390	1,318	
Republic of Korea	41	2,794,981	170	
Russia	118	15,964,477	488	
Saudi Arabia	7	117,600	17	
Taiwan	15	1,444,040	68	
Tajikistan	1	30,000	3	
Turkey	50	980,195	259	
Turkmenistan	1	135,000	2	
Ukraine	24	4,073,815	114	
United Arab Emirates	2	20,000	3	
Uzbekistan	2	1,506,000	4	
Yemen	1	5,500	3	
subtotal	33	785	68,620,585	3,032

## TROPICAL ASIA

Bangladesh	1	131,000	13
Brunei Darussalam	2	90,000	5
Cambodia	1	12,500	5

	India	96	5,507,226	424	
	Indonesia	11	2,209,117	58	
	Laos	2	8,700	7	
	Malaysia	13	920,475	69	
	Myanmar	5	23,700	3	
	Pakistan	25	678,720	67	
	Papua New Guinea	5	327,093	9	
	Philippines	17	480,010	63	
	Singapore	2	783,695	20	
	Sri Lanka	2	132,000	3	
	Thailand	15	668,765	115	
	Vietnam	15	573,137	121	
subtotal		15	212	12,546,138	982
AUSTRALIA & NEW ZELAND					
	Australia	36	8,395,127	229	
	New Zealand	12	1,606,120	67	
subtotal		2	48	10,001,247	296
PACIFIC					
	Fiji	1	40,000	1	
	French Polynesia	2	20,000	3	
	Guam	2	60,775	4	
	New Caledonia	1	80,000	8	
	Republic of Palau	2	3,750	3	
	Samoa	1	531	1	
	Solomon Islands	1	35,000	3	
	Tonga	1	3,030	2	
	Vanuatu	1	6,000	2	
subtotal		8	12	249,086	27
NORTH AMERICA					
	Canada	88	9,383,122	211	
	Greenland	1	500	0	
	Mexico	69	5,348,670	386	
	U.S.A.	686	78,694,916	1676	
subtotal		4	844	93,427,208	2273
CARIBBEAN, CENTRAL AMERICA AND SOUTH AMERICA					
	Argentina	51	5,071,121	406	
	Bahamas	1	7,215	6	
	Barbados	1	5,000	1	
	Belize	1	10,000	2	

Bolivia	4	525,000	36	
Brazil	180	8,442,588	869	
Cayman Islands	1	1,369	1	
Chile	16	551,522	63	
Colombia	35	1,659,107	136	
Costa Rica	6	652,700	36	
Cuba	13	809,527	96	
Dominican Republic	3	175,045	15	
Ecuador	17	776,661	60	
El Salvador	3	83,000	6	
Falkland Islands	1	1,135	1	
French Guiana	1	170,000	13	
Guadeloupe	1	10,000	2	
Guatemala	6	138,903	39	
Guyana	3	57,850	5	
Haiti	1	7,216	1	
Honduras	5	309,621	10	
Jamaica	2	161,600	5	
Martinique	1	2,142	1	
Nicaragua	3	42,500	11	
Panama	4	158,242	16	
Paraguay	4	132,500	18	
Peru	19	881,710	107	
Puerto Rico	5	167,430	9	
Suriname	1	37,000	2	
Trinidad	1	50,468	3	
Uruguay	5	217,000	30	
Venezuela	20	1,058,092	97	
Virgin Islands	1	3,000	1	
subtotal	32	416	22,376,264	2104
Grand Total	178	3324	392,252,689	12,135

## The Largest Herbaria in the World

This list includes those herbaria that fall within the top 100 size classes. The list includes all herbaria with more than 480,000 specimens.

Rank	Organization	Code	Country	Date	
				Total	Founded
1	Royal Botanic Gardens Muséum National d'Histoire Naturelle	K	U.K.	8,125,000	1852
2	Naturelle	P&PC	France	8,000,000	1635
3	The New York Botanical Garden	NY	U.S.A.	7,921,000	1891
4	Naturalis <sup>1</sup>	<i>L, Wag, U</i>	Netherlands	6,900,000	1829
5	Missouri Botanical Garden Conservatoire et Jardin botaniques de la Ville de Genève	MO	U.S.A.	6,850,000	1859
6	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	Smithsonian Institution	US	U.S.A.	5,100,000	1848
10	Harvard University <sup>2</sup>	<i>HUH</i>	U.S.A.	5,005,000	1842
11	Natural History Museum Swedish Museum of Natural History	FI	Italy	5,000,000	1842
12	History	S	Sweden	4,570,000	1739
13	Université Claude Bernard	LY	France	4,400,000	1924
14	Botanic Garden Meise Botanischer Garten und Botanisches Museum Berlin- Dahlem	BR	Belgium	4,000,000	1870
15	Dahlem	B	Germany	3,800,000	1815
16	Université de Montpellier Friedrich-Schiller-Universität Jena	MPU	France	3,500,000	1809
16	Jena	JE	Germany	3,500,000	1896
17	University of Helsinki Botanische Staatssammlung München	H	Finland	3,350,501	1751
18	München	M	Germany	3,200,000	1813
19	Museum of Evolution Royal Botanic Garden Edinburgh	UPS	Sweden	3,100,000	1785
20	Edinburgh	E	U.K.	3,000,000	1839
21	University of Copenhagen Field Museum of Natural History	C	Denmark	2,900,000	1759
22	History	F	U.S.A.	2,700,000	1893



Institute of Botany, Chinese Academy of Sciences	PE	People's Republic of China	2,650,000	1928
24 Lund University	LD	Sweden	2,500,000	1770
25 California Academy of Sciences	CAS	U.S.A.	2,300,000	1853
M.G. Kholodny Institute of Botany, National Academy of Sciences of Ukraine	KW	Ukraine	2,263,207	1921
27 Charles University in Prague	PRC	Czech Republic	2,200,000	1775
28 University of California	UC	U.S.A.	2,100,000	1872
Hungarian Natural History Museum	BP	Hungary	2,097,424	1870
30 National Museum in Prague	PR	Czech Republic	2,000,000	1818
Eidgenössische Technische Hochschule Zürich	ZT	Switzerland	2,000,000	1859
30 Botanical Survey of India	CAL	India	2,000,000	1793
30 Research Centre for Biology	BO	Indonesia	2,000,000	1841
National Museum of Nature and Science	TNS	Japan	1,937,000	1877
32 University of Hamburg	HBG	Germany	1,800,000	1879
32 University of Oslo	O	Norway	1,800,000	1863
33 University of Michigan	MICH	U.S.A.	1,750,000	1837
34 University of Tokyo	TI	Japan	1,700,000	1877
Universidad Nacional Autónoma de México	MEXU	Mexico	1,600,000	1888
Agriculture and Agri-Food Canada	DAO	Canada	1,550,000	1886
36 Universität Zürich	Z	Switzerland	1,500,000	1834
36 Academy of Science, Uzbekistan	TASH	Uzbekistan	1,500,000	1921
36 Royal Botanic Gardens Victoria	MEL	Australia	1,500,000	1853
Botanical Research Institute of Texas	BRIT	U.S.A.	1,482,000	1987
38 Academy of Natural Sciences	PH	U.S.A.	1,430,000	1812
Royal Botanic Gardens & Domain Trust	NSW	Australia	1,425,000	1896
40 Universität Wien	WU	Austria	1,400,000	1879
Rancho Santa Ana Botanic Garden	RSA	U.S.A.	1,230,000	1927
42 Polish Academy of Sciences	KRAM	Poland	1,227,500	1867
43 Australian National Herbarium	CANB	Australia	1,204,426	1930
Senckenberg Gesellschaft für Naturforschung	FR	Germany	1,200,000	1817
South African National Biodiversity Institute	PRE	South Africa	1,200,000	1903
44 Kyoto University	KYO	Japan	1,200,000	1921

44 Hebrew University	HUJ	Israel	1,200,000	1928
45 Karl-Franzens-Universität Graz	GZU	Austria	1,180,000	1900
46 Real Jardín Botánico	MA	Spain	1,158,116	1755
Università degli Studi di Roma La				
47 Sapienza	RO	Italy	1,120,000	1872
Kunming Institute of Botany,		People's Republic		
48 Chinese Academy of Sciences	KUN	of China	1,114,000	1938
49 Cambridge University	CGE	U.K.	1,100,000	1761
49 Upper Austrian State Museum	LI	Austria	1,100,000	1833
50 Instituto Politécnico Nacional	ENCB	Mexico	1,080,000	1943
51 University of Wisconsin	WIS	U.S.A.	1,078,000	1849
52 Moscow State University	MW	Russia	1,044,751	1765 or 1780
State Herbarium of South				
53 Australia	AD	Australia	1,040,000	1954
54 University of Texas at Austin	TEX	U.S.A.	1,006,000	1900
Staatliches Museum für				
55 Naturkunde Stuttgart	STU	Germany	1,000,000	1791
55 University of Gothenburg	GB	Sweden	1,000,000	1926
Musée et Jardins Botaniques				
55 Cantonaux MJBC	LAU	Switzerland	1,000,000	1824
55 University of Manchester	MANCH	U.K.	1,000,000	1835
55 National Museums of Kenya	EA	Kenya	1,000,000	1902
Institute of Botany, Ilia State				
55 University	TBI	Georgia	1,000,000	1894
		People's Republic		
55 South China Botanical Garden	IBSC	of China	1,000,000	1928
56 University of Wyoming	RM	U.S.A.	9,830,000	1894
57 Hiroshima University	HIRO	Japan	970,000	1929
U.S. National Fungus Collections,				
58 USDA-ARS	BPI	U.S.A.	950,000	1869
59 University of Minnesota	MIN	U.S.A.	940,000	1890
60 University of Turku	TUR	Finland	932,700	1919
61 Moravian Museum	BRNM	Czech Republic	903,000	1818
62 Queensland Herbarium	BRI	Australia	871,571	1881
63 Cornell University	BH	U.S.A.	845,000	1935
64 Jagiellonian University	KRA	Poland	800,000	1780
64 University of Coimbra	COI	Portugal	800,000	1772
64 Institut Botànic de Barcelona	BC	Spain	800,000	1917
64 Saint Petersburg University	LECB	Russia	800,000	1823
64 Duke University	DUKE	U.S.A.	800,000	1932
United States National				
64 Arboretum, USDA-ARS	NA	U.S.A.	800,000	1934

University of North Carolina at 64 Chapel Hill	NCU	U.S.A.	800,000	1903
Jardim Botânico do Rio de 65 Janeiro	RB	Brazil	780,000	1890
66 Université Laval	QFA	Canada	779,000	1962
67 Universität Göttingen	GOET	Germany	750,000	1832
67 Singapore Botanic Gardens	SING	Singapore	750,000	1880
67 Western Australian Herbarium	PERTH	Australia	750,000	1929
67 Bishop Museum	BISH	U.S.A.	750,000	1908
68 Université de Montréal	MT	Canada	745,000	1920
69 Hebrew University	HUJ	Israel	725,000	1928
70 Fundación Miguel Lillo	LIL	Argentina	720,000	1931
71 University of British Columbia	UBC	Canada	713,000	1912
72 Aarhus University	AAU	Denmark	700,000	1963
72 University of Bergen	BG	Norway	700,000	1825
Institute of Botany, Jiangsu Province and Chinese Academy 72 of Sciences	NAS	People's Republic of China	700,000	1923
72 Instituto de Botánica Darwinion	SI	Argentina	700,000	1911
73 Masaryk University	BRNU	Czech Republic	666,000	1921
74 Brigham Young University	BRY	U.S.A.	661,100	1923
75 Babes-Bolyai University	CL	Romania	660,500	1873
76 Iowa State University	ISC	U.S.A.	650,000	1870
76 Miami University	MU	U.S.A.	650,000	1906
76 University of Washington	WTU	U.S.A.	650,000	1882
77 University of Tennessee	TENN	U.S.A.	649,000	1888
Manaaki Whenua - Landcare 78 Research	CHR	New Zealand	640,000	1928
79 Masaryk University	BRNU	Czech Republic	634,000	1921
Main Botanical Garden of the 80 Russian Academy of Sciences	MHA	Russia	610,000	1958
81 Universalmuseum Joanneum	GJO	Austria	600,000	1811
81 National Museum	PRM	Czech Republic	600,000	1818
UNIVEGE Université Clermont 81 Auvergne	CLF	France	600,000	1865
Leibniz Institute of Plant Genetics and Crop Plant 81 Research (IPK)	GAT	Germany	600,000	1946
81 National Botanic Gardens	DBN	Ireland	600,000	1847
81 Università degli Studi di Padova	PAD	Italy	600,000	1835
Azerbaijan National Academy of 81 Sciences (ANAS)	BAK	Azerbaijan	600,000	1827
81 Museu Nacional	R	Brazil	600,000	1831

81	Universidad Nacional de Colombia	COL	Colombia	600,000	1931
82	Canadian Museum of Nature	CAN	Canada	588,000	1882
83	University of Alberta	ALTA	Canada	570,500	1916
84	Michigan State University	MSC	U.S.A.	560,000	1863
85	University of Colorado Museum	COLO	U.S.A.	553,000	1890
86	Orto Botanico dell'Università degli Studi di Palermo	PAL	Italy	550,000	1795
86	National Museum of Wales	NMW	U.K.	550,000	1912
86	Northwestern Institute of Botany	WUK	People's Republic of China	550,000	1936
87	Instituto de Botánica del Nordeste	CTES	Argentina	530,000	1965
88	Carnegie Museum of Natural History	CM	U.S.A.	525,000	1895
89	Institute of Applied Ecology, Academia Sinica	IFP	People's Republic of China	521,000	1953
90	Gradina Botanica D. Brandza	BUC	Romania	520,000	1882
90	University of Illinois	ILL	U.S.A.	520,000	1869
91	Taiwan Forestry Research Institute	TAIF	Taiwan	515,000	1904
92	Botanic Garden	SRGH	Zimbabwe	513,736	1909
93	Arizona State University	ASU	U.S.A.	513,328	1910
94	South African National Biodiversity Institute	NBG	South Africa	507,000	1933
95	National Institute of Biological Resources	KB	Republic of Korea	505,512	2005
96	University of Oulu	OULU	Finland	500,000	1959
96	Universität Tübingen	TUB	Germany	500,000	
96	Museum für Naturkunde	MSTR	Germany	500,000	1872
96	Università di Catania	CAT	Italy	500,000	1858
96	Maria Curie-Sklodowska University	LBL	Poland	500,000	1947
96	Wroclaw University	WRSL	Poland	500,000	1821
96	University of Oxford	OXF	U.K.	500,000	1621
96	Institute of Botany of the National Academy of Sciences of Armenia	ERE	Armenia	500,000	1925
96	Institute of Biology and Soil Science, Far Eastern Branch, Russian Academy of Sciences	VLA	Russia	500,000	1916
96	Tomsk State University	TK	Russia	500,000	1885
96	Ohio State University	OS	U.S.A.	500,000	1891
96	University of Arizona	ARIZ	U.S.A.	500,000	1891

96	Museo de La Plata	LP	Argentina	500,000	1887
96	Herbario CORD	CORD	Argentina	500,000	1870
96	Universidad Nacional Mayor de San Marcos	USM	Peru	500,000	1918
96	Instituto de Botânica	SP	Brazil	500,000	1917
96	Universität Hohenheim	HOH	Germany	500,000	1828
96	Norwegian University of Science and Technology	TRH	Norway	500,000	1760
96	Łódź University	LOD	Poland	500,000	1946
96	Oregon State University	OSC	U.S.A.	500,000	1886
97	Museo Nacional de Costa Rica	CR	Costa Rica	495,000	1887
98	Natural History Museum	BEO	Serbia	490,000	1895
98	Royal Ontario Museum	TRTC	Canada	490,000	1887
99	Tohoku University	TUS	Japan	485,000	1924
100	Hattori Botanical Laboratory	NICH	Japan	480,000	1946
100	Florida Museum of Natural History	FLAS	U.S.A.	480,000	1891
100	Instituto Nacional de Tecnología Agropecuaria	BAB	Argentina	480,000	1899
<b>TOTAL</b>					

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

<sup>2</sup> *"HUH" is an informal code for the Harvard University Herbaria, which includes A, AMES, ECON, FH, GH, NEBC*

## Herbaria Newly Added in 2019

Note that herbaria newly added are not necessarily newly formed, but are those that were newly registered this year.

Region	Country	Code	Organization	Total
<u>EUROPE</u>				
	Belgium	ARWESP	Arboretum Wespelaar	1426
	Bosnia and Herzegovina	FAMU	Mycological Society MycoBH	2000

France	BIF	Bibliothèque de l'Institut de France	326
France	DP	Daniel PELLÉ Herbarium	1974
France	MHNM	Muséum d'histoire naturelle de Marseille	63450
France	BZR	Musées de la Ville de Béziers	95000
Greece	BBGK	Hellenic Agricultural Organization-DEMETER	1074
Greece	CBH	Cephalonia Botanica, Focas Cosmetatos Foundation	1000
Hungary	MMGMK	The Museum and Library of Hungarian Agriculture	20000
Ireland	HUUD	Dublin City University	3000
Italy	HMSNMO	Museo civico di Storia naturale di Morbegno	5804
Italy	AGMT	Associazione Gruppi Micologici Toscani	5880
Italy	MN	Liceo Classico "Virgilio"	3000
Poland	POZA	Adam Mickiewicz University Algal Herbarium	5800
Romania	UOP	University of Oradea	600
Spain	HMIM	Jardí Botànic Marimurtra	15000
U.K.	UKC	University of Kent (at Canterbury)	1665
U.K.	NBGW	The National Botanic Garden of Wales	0
<b>18</b>			<b>226999</b>
<u>AFRICA</u>			
Morocco	CHAMB	Mathieu Chambouleyron Herbarium	4972
Nigeria	JUHN	University of Jos	1500
South Africa	SANDC	North-West University	21000
Tunisia	IRABS	Arid Regions Institute	200
<b>4</b>			<b>27672</b>
<u>TEMPERATE ASIA</u>			
Georgia	AUMH	Agricultural University of Georgia	18821
Iran	ALBORZ	Science and Research Branch, Islamic Azad University, Tehran, Iran	1000
Iran	RUHK	Razi University Herbarium	2878
Iran	TBZFPH	Tabriz University of Medical Sciences	5000
Iran	UTFH	College of Agriculture and Natural Resources, University of Tehran	14100
Japan	TKY	Gifu University	6000
Japan	UTF	The University of Tokyo Forests	10130
Palestinian Territories	PMNHH	Palestine Museum of Natural History	755

People's Republic of China	ERCG	Jilin Agriculture University, Ginseng Research Center	300
People's Republic of China	HMJU	Jilin Agricultural Science and Technology University	3000
People's Republic of China	SNTCM	Shaanxi University of Chinese Medicine	300
People's Republic of China	YZB	Rare plants research institute of Yangtze river, Hubei province	unknown
Republic of Korea	NNH	Nakdonggang National Institute of Biological Resources	60000
Republic of Korea	WFRC	Warm-Temperate and Subtropical Forest Research Center, Korea Forest Research Institute	76507
Russia	AR	Federal Center for Integrated Arctic Research Russian Academy of Sciences	10000
Russia	SIBS	Institute of Marine Biological Research	34000
Russia	MYX	Lomonosov Moscow State University	12000
Russia	TUL	Tula State Lev Tolstoy Pedagogical University	10000
Russia	TUVA	Tuvan State University	3000
Russia	VRBG	Volgograd Regional Botanical Garden	2078
Saudi Arabia	JAZUH	Jazan University	2000
Saudi Arabia	PNUH	Princess Nourah Bint Abdulrahman University, Riyadh, Kingdom Saudi Arabia	4100
Turkey	CBB	Herbarium of Canakkale Botanical Garden	18809
Turkey	CUEF	Cukurova University	1700
Ukraine	PW	Vasyl Krychevsky Poltava Museum of Local Lore	9960
<b>25</b>			<b>296478</b>
<b><u>TROPICAL ASIA</u></b>			
Bangladesh	JUH	Jahangirnagar University	31000
India	BHPL	Indian Institute of Science Education and Research-Bhopal	1000
India	GUD	The Gandhigram Rural Institute	1029
India	PRFH	Patanjali Research Foundation	5500
India	ZGC	The Zamorin's Guruvayurappan College	9500
Indonesia	MALG	Universitas Negeri Malang	200

Indonesia	MBY	Museum Biologi Yogyakarta	234
Pakistan	GCUSAH	GC University, Lahore	1070
Pakistan	ICFP	Islamia College University Peshawar	300
Pakistan	PMAS	Pir Mehr Ali Shah Arid Agriculture University, Rawalpindi, Pakistan	2500
Pakistan	POONCH	University of the Poonch Rawalakot	700
Pakistan	SARGU	University of Sargodha	200
Pakistan	SINDH	University of Sindh, Jamshoro	15000
Philippines	DLSUH	De La Salle University	4390
Thailand	TTM	Thai Traditional Medicine Research Institute	4530
<b>15</b>			<b>77153</b>
<u>PACIFIC</u>			
Samoa	SAMOA	National University of Samoa	400
<b>1</b>			<b>400</b>
<b>NORTH AMERICA</b>			
Canada	BMSC	Bamfield Marine Science Centre	6591
Canada	DFB	Daniel Brunton Private Herbarium	19763
Mexico	HJAAA	Facultad de Ciencias Biologicas-Universidad Juarez del Estado de Durango	633
Mexico	HHUAQ	Universidad Autónoma de Querétaro	300
Mexico	JES	Universidad Autónoma Chapingo	33000
Mexico	UCOL	Universidad de Colima	2500
Mexico	WLM	Jardín Botánico El Charco del Ingenio	1158
U.S.A.	BCBC	Broward College	200
U.S.A.	BWNC	Baltimore Woods Nature Center	443
U.S.A.	CGCC	Columbia-Greene Community College	4055
U.S.A.	DINO	Dinosaur National Monument	4400
U.S.A.	ERDC	U.S. Army Corps of Engineers	100
U.S.A.	DSRC	Mohonk Preserve	3508
U.S.A.	ICHAUWAY	Jones Center at Ichauway	2200
U.S.A.	ICTB	Florida International University	11000
U.S.A.	LUC	Loyola University of Chicago	3800
U.S.A.	MNF	Malheur National Forest	2417
U.S.A.	PPWD	Pepperwood Preserve	2500
U.S.A.	PRR	Patuxent Research Refuge	5040
U.S.A.	RARO	Raven Rock State Park	unknown
U.S.A.	SBLM	Bureau of Land Management	1070
U.S.A.	SJNM	San Juan College	71000



U.S.A.	UIU	Upper Iowa University	3000	
U.S.A.	UNGGVH	University of North Georgia	1000	
U.S.A.	UWB	University of Washington Bothell	1100	
25			180778	
CARIBBEAN, CENTRAL AMERICA AND SOUTH AMERICA				
-	Argentina	BAJ	Botanic Garden of the City "Carlos Thays"	4613
	Argentina	HSESJ	National University of San Juan	3375
			Instituto de Investigaciones Marinas y Costeras, CONICET-Universidad Nacional de Mar del Plata	500
	Argentina	MDQ		
	Argentina	MICODIF	Universidad Nacional de San Luis	1800
	Brazil	AJU	Universidade Tiradentes	1100
	Brazil	ARA	Universidade Federal de Alagoas	6561
	Brazil	BMA	Federal University of Maranhão	2500
			Fundação Oswaldo Cruz - FIOCRUZ (Oswaldo Cruz Foundation)	1391
	Brazil	CBPM		
			Fundação Municipal da Casa da Cultura de Marabá	5000
	Brazil	FCCM		
	Brazil	HCP	Universidade Federal Rural da Amazônia	200
	Brazil	HFC	Embrapa Florestas	10100
			Jardim Botânico Municipal "Max Hablitzel" de São José	800
	Brazil	HIPE		
	Brazil	HJ	Universidade Federal de Jataí	8000
	Brazil	HLAJ	Prefeitura Municipal de Lajeado	200
	Brazil	HTL	Universidade Federal de Mato Grosso do Sul	3000
	Brazil	HUFSP	Universidade Federal de São Paulo	150
	Brazil	HUNEB	Universidade do Estado da Bahia	15000
			Universidade do Estado de Santa Catarina (UDESC), Herbário Anita Garibaldi	1000
	Brazil	LAG		
	Brazil	MACK	Universidade Presbiteriana Mackenzie	3220
	Brazil	RSPF	Universidade de Passo Fundo	16000
	Brazil	UALF	Federal University of Alfenas	3000
	Brazil	UEGQ	Universidade Estadual de Goiás	5452
	Chile	MICOCL	ONG Micófilos	900
	Chile	UTAL	Universidad de Talca	3152
	Colombia	HT	Herbario Tropical S.A.S.	732
	Ecuador	AMAS	Universidad Técnica de Ambato	1000
	Ecuador	UTCEC	Universidad Técnica de Cotopaxi	2500
25			96633	

**GRAND TOTAL:****99****905,713****Herbaria Reported as Inactive in 2019**

*Note that some herbaria reported here became inactive prior to 2019, but were not reported as inactive previously.*

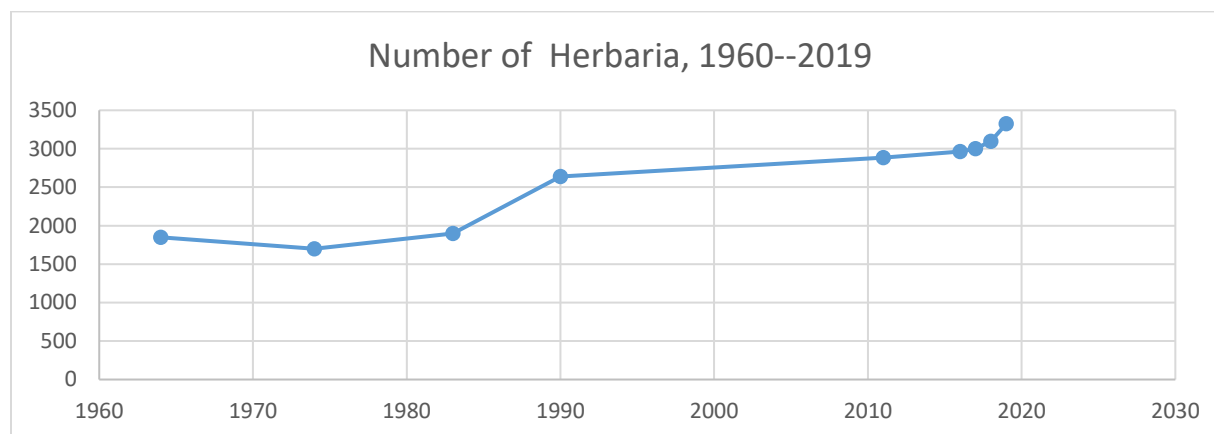
Region	Country	Code	Organization	City	Specimens	Notes/Disposition of specimens
<u>EUROPE</u>						
	Finland	HEL	University of Helsinki	Helsinki	unknown	Now incorporated into H.
	Hungary	BP	Eötvös Loránd University	Budapest	35,000	Now incorporated into BP. All GRO collections have been transferred to L.
	Netherlands	GRO	State University of Groningen	Haren	50,000	
<u>AUSTRALIA &amp; NEW ZEALAND</u>						
	Australia	FRI	Commonwealth Scientific and Industrial Research Organization (CSIRO)	Canberra	unknown	Now incorporated into CANB.
<u>NORTH AMERICA</u>						
	U.S.A.	CCH	University of Arizona South, Agricultural Extension Service	Sierra Vista	unknown	Now been incorporated into ASU.
	U.S.A.	LFCC	Lord Fairfax Community College	Warrenton	20,000	Now incorporated into GMUF
	U.S.A.	SDU	University of South Dakota	Vermillion	unknown	Now incorporated into BHSC

**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>
2018	3095	Archived dataset for <i>World's Herbaria 2018</i>
2019	3324	Archived dataset for <i>World's Herbaria 2019</i>



### 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>
2018	387,513,053	Archived dataset for <i>World's Herbaria 2018</i>
2010	392,252,689	Archived dataset for <i>World's Herbaria 2019</i>

