

The World's Herbaria 2020:

A Summary Report Based on Data from Index Herbariorum

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This document represents the fifth *Index Herbariorum* annual report. Reports for 2016 - 2020 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 2020.

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, 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 2020, there are 3426 active herbaria in the world containing 396,204,891 specimens. Comparison with totals reported in previous years are given in Table 5 and Table 6. In 2020, 17 herbaria were newly reported as inactive or permanently closed, and 81 herbaria, representing 1,006,558 specimens in total, were newly registered. There are now 182 countries with at least one herbarium. This year, Gibraltar was added to the list of countries, with the registration of

the new herbarium GIB, Gibraltar Botanic Gardens). Associated with the world's herbaria are 12,470 staff members and associates.

2019 was the third 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 entries. During the past year there were 477 updates were submitted by IH participants (including new registrations of herbaria and staff), an average of 11 updates per week.

We now have sufficient data for a decadal summary of herbarium growth. During the past decade (2011—2020), 571 herbaria were newly registered in *Index Herbariorum*, and the total number of specimens reported for all herbaria increased by 36,204,000.

I acknowledge the assistance of Associate Editor Dr. Harlan Svoboda of the U.S. National Arboretum (NA) in the updating of the Index this year.

SUMMARY TABLES AND GRAPHS

The tables and charts included here reflect the most requested types of summary information from *Index Herbariorum*. In previous years most tables were organized by region, but the grouping scheme was not satisfactory to some readers. So, going forward the herbaria are arranged alphabetically by country. Anyone interested in making their own regional grouping can download the data from the Index Herbariorum website (<http://sweetgum.nybg.org/science/ih/annual-report/>)

Table 1. Summary of herbaria by Country

Country	Number of Herbaria	Number of Specimens	Number of Staff & Associates
Afghanistan	2	33,609	1
Algeria	3	377,365	5
Andorra	1	1068	1
Angola	3	125,000	2
Argentina	53	5,114,597	511
Armenia	4	576,820	20
Australia	34	8,452,467	240
Austria	19	10,923,710	113
Azerbaijan	1	600,000	1
Bahamas	1	7215	6
Bangladesh	3	139,000	15
Barbados	1	5000	1
Belarus	5	528,156	46
Belgium	9	5,136,944	53
Belize	1	10,000	2
Benin	2	22,000	7

Bhutan	1	15,000	6
Bolivia	4	525,000	36
Bosnia and Herzegovina	2	112,000	4
Botswana	5	34,479	11
Brazil	190	8,412,294	881
Brunei Darussalam	2	90,000	5
Bulgaria	4	422,200	24
Burkina Faso	3	20,940	17
Burundi	1	20,000	3
Cambodia	1	12,500	5
Cameroon	3	137,000	11
Canada	90	9,404,522	201
Cayman Islands	1	1369	1
Central African Republic	1	10,000	5
Chile	21	569,538	64
Colombia	37	1,694,957	134
Comoros	1	8600	5
Congo, Democratic Republic	11	298,444	44
Congo, Republic of (Congo-Brazzaville)	1	40,300	1
Costa Rica	6	653,200	38
Croatia	12	385,884	30
Cuba	13	814,027	96
Cyprus	2	6600	6
Czech Republic	46	8,455,978	138
Denmark	2	3,600,000	34
Djibouti	1	172	4
Dominican Republic	4	188,411	13
Ecuador	17	781,222	65
Egypt	14	722,000	91
El Salvador	3	83,000	6
Equatorial Guinea	1	8000	2
Estonia	7	1,062,406	31
Ethiopia	5	178,080	17
Falkland Islands	1	1135	1
Fiji	1	40,000	1
Finland	11	5,482,701	61
France	86	24,046,688	176
French Guiana	1	170,000	13
French Polynesia	2	24,000	4
Gabon	1	65,000	10
Georgia	7	1,398,821	24
Germany	70	22,120,100	229
Gibraltar	1	200	1

Ghana	4	102,052	9
Greece	12	545,914	33
Greenland	1	500	0
Guadeloupe	1	10,000	2
Guam	2	60,775	4
Guatemala	7	142,503	40
Guinea. Republic of	2	21,650	4
Guyana	3	57,850	5
Haiti	1	7216	1
Honduras	5	309,621	10
Hungary	13	2,637,414	40
Iceland	2	164,000	5
India	100	5,549,474	436
Indonesia	11	2,210,115	56
Iran	41	1,057,222	139
Iraq	11	185,431	30
Ireland	7	923,633	12
Isle of Man	1	3000	1
Israel	5	1,237,720	9
Italy	85	11,596,611	311
Ivory Coast	3	62,650	8
Jamaica	2	161,600	5
Japan	72	12,86,724	237
Jordan	2	10,490	6
Kazakhstan	4	693,000	22
Kenya	3	1,300,000	17
Korea, Republic of	43	3,263,838	173
Kuwait	1	20,000	4
Kyrgyzstan	1	400,000	2
Laos	2	8700	7
Latvia	7	581,600	25
Lebanon	1	68,000	1
Lesotho	3	21,600	10
Liberia	1	7000	0
Libya	2	50,000	9
Lithuania	3	467,100	22
Luxembourg	1	50,000	7
Macedonia	5	171,500	15
Madagascar	4	421,000	7
Malawi	1	100,000	13
Malaysia	14	1,005,098	66
Mali	1	6400	4
Malta	1	10,000	1
Martinique	1	2142	1

Mauritania	1	6,200	3
Mauritius	1	25,000	1
Mayotte	1	5400	2
Mexico	71	5,360,897	388
Moldova	2	221,200	2
Mongolia	2	138,000	5
Montenegro	1	10,000	5
Morocco	6	222,549	21
Mozambique	2	125,350	14
Myanmar	5	1,886,450	3
Namibia	1	94,000	7
Nepal	2	1,850,000	24
Netherlands	14	7,378,719	55
New Caledonia	1	80,000	8
New Zealand	13	1,682,120	65
Nicaragua	3	42,500	11
Nigeria	11	218,550	28
Norway	7	3,367,000	30
Oman	3	24,401	6
Pakistan	26	680,120	82
Palestinian Territories	1	755	2
Palau, Republic of	2	3750	3
Panama	4	168,617	15
Papua New Guinea	4	324,000	9
Paraguay	4	132,500	18
People's Republic of China	370	20,375,136	1453
Peru	21	922,787	111
Philippines	19	486,394	70
Poland	33	5,427,383	199
Portugal	20	1,901,701	76
Puerto Rico	5	167,430	9
Réunion	1	8083	6
Romania	16	2,842,984	39
Russia	124	16,175,934	506
Rwanda	1	18,000	2
Samoa	1	400	1
São Tomé e Príncipe	1	1500	3
Saudi Arabia	7	117,600	20
Senegal	1	12,000	2
Serbia & Montenegro	5	747,950	27
Seychelles	1	3081	1
Sierra Leone	2	62,000	3
Singapore	2	783,695	20
Slovakia	19	1,247,605	75

Slovenia	4	220,000	9
Solomon Islands	1	35,000	3
Somalia	1	236	1
South Africa, Republic of	47	3,300,193	138
Spain	56	6,103,221	377
Sri Lanka	3	132,250	3
Sudan	3	35,500	6
Suriname	1	37,000	2
Swaziland	1	7200	3
Sweden	10	12,033,000	55
Switzerland	17	12,027,534	81
Taiwan	16	1,513,126	65
Tajikistan	1	30,000	3
Tanzania	7	248,645	19
Thailand	15	754765	113
Togo	1	21,000	2
Tonga	1	3030	2
Trinidad	1	3,030	2
Tunisia	2	3200	2
Turkey	52	975,242	261
Turkmenistan	1	135,000	2
U.K.	234	23,655,232	362
U.S.A.	700	78,462,700	1730
Uganda	4	131,767	5
Ukraine	25	4,078,652	113
United Arab Emirates	2	20,000	3
Uruguay	5	217,000	30
Uzbekistan	2	1,506,000	4
Vanuatu	1	6000	2
Venezuela	20	1,058,092	97
Vietnam	16	573,537	122
Virgin Islands, U.S.A.	1	3000	1
Yemen	1	5500	3
Zambia	4	111,000	19
Zimbabwe	5	540,636	18
Total:	3426	396,204,891	12,470

Table 2. 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 485,000 specimens.

Organization	Code	Country	Specimen Total	Date Founded
Royal Botanic Gardens	K	U.K.	8,125,000	1852
Muséum National d'Histoire Naturelle	P & PC	France	8,000,000	1635
The New York Botanical Garden	NY	U.S.A.	7,921,000	1891
Naturalis ¹	<i>L, Wag, U</i>	Netherlands	6,900,000	1829
Missouri Botanical Garden	MO	U.S.A.	6,850,000	1859
Conservatoire et Jardin botaniques de la Ville de Genève	G	Switzerland	6,000,000	1824
Komarov Botanical Institute of RAS	LE	Russia	6,000,000	1823
Naturhistorisches Museum Wien	W	Austria	5,500,000	1807
The Natural History Museum	BM	U.K.	52,000,00	1753
Smithsonian Institution	US	U.S.A.	51,00,000	1848
Harvard University ²	<i>HUH</i>	U.S.A.	5,00,5000	
Natural History Museum of Florence	FI	Italy	5,000,000	1842
Swedish Museum of Natural History	S	Sweden	4,570,000	1739
Université Claude Bernard Lyon	LY	France	4,400,000	1924
Meise Botanic Garden	BR	Belgium	4,000,000	1870
Botanischer Garten und Botanisches Museum Berlin, Zentraleinrichtung der Freien Universität Berlin	B	Germany	3,800,000	1815
Friedrich Schiller University Jena	JE	Germany	3,500,000	1896
Université de Montpellier	MPU	France	3,500,000	1809
University of Helsinki	H	Finland	3,350,501	1751
Botanische Staatssammlung München	M	Germany	3,200,000	1813
Museum of Evolution	UPS	Sweden	3,100,000	1785
Royal Botanic Garden Edinburgh	E	U.K.	3,000,000	1839
University of Copenhagen	C	Denmark	2,900,000	1759
Field Museum of Natural History	F	U.S.A.	2,7000,00	1893
Institute of Botany, Chinese Academy of Sciences	PE	People's Republic of China	2,650,000	1928
Lund University	LD	Sweden	2,500,000	1770

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
Charles University, Prague	PRC	Czech Republic	2,240,000	1775
University of California	UC	U.S.A.	2,100,000	1872
Hungarian Natural History Museum	BP	Hungary	2,097,424	1870
National Museum of Nature and Science	TNS	Japan	2,026,000	1877
Research Centre for Biology	BO	Indonesia	2,000,000	1841
Botanical Survey of India	CAL	India	2,000,000	1793
National Museum in Prague	PR	Czech Republic	2,000,000	1818
Eidgenössische Technische Hochschule Zürich	ZT	Switzerland	2,000,000	1859
Muséum National d'Histoire Naturelle	PC	France	2,000,000	1904
University of Hamburg	HBG	Germany	1,800,000	1879
Botanical Museum, University of Oslo	O	Norway	1,800,000	1863
University of Michigan	MICH	U.S.A.	1,750,000	1837
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
Royal Botanic Gardens Victoria	MEL	Australia	1,500,000	1853
Academy of Science, Uzbekistan	TASH	Uzbekistan	1,500,000	1921
Universität Zürich	Z	Switzerland	1,500,000	1834
Botanical Research Institute of Texas	BRIT	U.S.A.	1,482,000	1987
Academy of Natural Sciences	PH	U.S.A.	1,430,000	1812
Royal Botanic Gardens & Domain Trust	NSW	Australia	1,425,000	1896
Universität Wien	WU	Austria	1,400,000	1879
California Botanic Garden	RSA	U.S.A.	1,230,000	1927
W. Szafer Institute of Botany, Polish Academy of Sciences	KRAM	Poland	1,227,500	1867
Australian National Herbarium	CANB	Australia	1,204,426	1930
Senckenberg Gesellschaft für Naturforschung: Senckenberg Forschungsinstitut und Naturmuseum	FR	Germany	1,200,000	1817
Hebrew University	HUJ	Israel	1,200,000	1928
Kyoto University	KYO	Japan	1,200,000	1921
South African National Biodiversity Institute	PRE	South Africa	1,200,000	1903
Karl-Franzens-Universität Graz	GZU	Austria	1,180,000	1900
University of Gothenburg	GB	Sweden	1,160,000	1926
Real Jardín Botánico	MA	Spain	1,158,116	1755
Università degli Studi di Roma La Sapienza	RO	Italy	1,120,000	1872

Kunming Institute of Botany, Chinese Academy of Sciences	KUN	People's Republic of China	1,114,000	1938
University of Cambridge	CGE	U.K.	1,100,000	1761
Upper Austrian State Museum	LI	Austria	1,100,000	1833
Instituto Politécnico Nacional	ENCB	Mexico	1,080,000	1943
University of Wisconsin	WIS	U.S.A.	1,078,000	1849
Moscow State University	MW	Russia	1,044,751	1765 or 1780
State Herbarium of South Australia	AD	Australia	1,040,000	1954
University of Texas at Austin	TEX	U.S.A.	1,006,000	1900
National Museums of Kenya	EA	Kenya	1,000,000	1902
South China Botanical Garden	IBSC	People's Republic of China	1,000,000	1928
Musée et Jardins Botaniques Cantonaux MJBC	LAU	Switzerland	1,000,000	1824
University of Manchester	MANCH	U.K.	1,000,000	1835
Staatliches Museum für Naturkunde Stuttgart	STU	Germany	1,000,000	1791
Institute of Botany, Ilia State University	TBI	Georgia	1,000,000	1894
Naturalis	WAG	Netherlands	1,000,000	1896
University of Wyoming	RM	U.S.A.	983,000	1894
Hiroshima University	HIRO	Japan	970,000	1929
U.S. National Fungus Collections, USDA-ARS	BPI	U.S.A.	950,000	1869
University of Minnesota	MIN	U.S.A.	940,000	1890
University of Turku	TUR	Finland	9327,00	1919
Moravian Museum	BRNM	Czech Republic	903,000	1818
Naturalis	U	Netherlands	900,000	1816
Queensland Herbarium	BRI	Australia	871,571	1881
Cornell University	BH	U.S.A.	845,000	1935
Western Australian Herbarium	PERTH	Australia	807,340	1929
Institut Botànic de Barcelona	BC	Spain	800,000	1917
University of Coimbra	COI	Portugal	800,000	1772
Duke University	DUKE	U.S.A.	800,000	1932
Jagiellonian University	KRA	Poland	800,000	1780
Saint Petersburg University	LECB	Russia	800,000	1823
United States National Arboretum, USDA-ARS	NA	U.S.A.	800,000	1934
University of North Carolina at Chapel Hill	NCU	U.S.A.	800,000	1903
Jardim Botânico do Rio de Janeiro	RB	Brazil	800,000	1890
Université Laval	QFA	Canada	779,000	1962

Bishop Museum	BISH	U.S.A.	750,000	1908
Universität Göttingen	GOET	Germany	750,000	1832
Singapore Botanic Gardens	SING	Singapore	750,000	1880
Fundación Miguel Lillo	LIL	Argentina	700,000	1931
Aarhus University	AAU	Denmark	700,000	1963
University of Bergen	BG	Norway	700,000	1825
Manaaki Whenua - Landcare Research	CHR	New Zealand	700,000	1928
Institute of Botany, Jiangsu Province and Chinese Academy of Sciences	NAS	People's Republic of China	700,000	1923
University of Washington	WTU	U.S.A.	700,000	1882
Instituto de Botánica Darwinion	SI	Argentina	749,999	1911
Université de Montréal	MT	Canada	679,000	1920
Masaryk University	BRNU	Czech Republic	666,000	1921
Brigham Young University	BRY	U.S.A.	661,100	1923
Babes-Bolyai University	CL	Romania	660,500	1873
Iowa State University	ISC	U.S.A.	650,000	1870
Miami University	MU	U.S.A.	650,000	1906
University of Tennessee	TENN	U.S.A.	649,000	1888
Canadian Museum of Nature	CAN	Canada	640,000	1882
Korea National Arboretum	KH	Republic of Korea	631,640	1999
Main Botanical Garden of the Russian Academy of Sciences	MHA	Russia	610,000	1958
Azerbaijan National Academy of Sciences (ANAS)	BAK	Azerbaijan	600,000	1827
UNIVEGE Université Clermont Auvergne	CLF	France	600,000	1865
Universidad Nacional de Colombia	COL	Colombia	600,000	1931
National Botanic Gardens of Ireland	DBN	Ireland	600,000	1847
Leibniz Institute of Plant Genetics and Crop Plant Research (IPK)	GAT	Germany	600,000	1946
Universalmuseum Joanneum	GJO	Austria	600,000	1811
Università degli Studi di Padova	PAD	Italy	600,000	1835
National Museum	PRM	Czech Republic	600,000	1818
Museu Nacional	R	Brazil	600,000	1831
University of Alberta	ALTA	Canada	570,500	1916
University of Colorado Museum	COLO	U.S.A.	553,000	1890
National Museum Wales	NMW	U.K.	550,000	1912
Orto Botanico dell'Università degli Studi di Palermo	PAL	Italy	550,000	1795

Northwestern Institute of Botany	WUK	People's Republic of China	550,000	1936
Instituto de Botánica del Nordeste	CTES	Argentina	530,000	1965
Carnegie Museum of Natural History	CM	U.S.A.	525,000	1895
Michigan State University	MSC	U.S.A.	522,831	1863
Institute of Applied Ecology, Academia Sinica	IFP	People's Republic of China	521,000	1953
Gradina Botanica D. Brandza	BUC	Romania	520,000	1882
University of Illinois at Urbana-Champaign	ILL	U.S.A.	520,000	1869
Hattori Botanical Laboratory	NICH	Japan	520,000	1946
Taiwan Forestry Research Institute	TAIF	Taiwan	515,000	1904
Wroclaw University	WRSL	Poland	515,000	1821
Botanic Garden	SRGH	Zimbabwe	513736	1909
Arizona State University	ASU	U.S.A.	513,328	1910
South African National Biodiversity Institute	NBG	South Africa	507,000	1933
National Institute of Biological Resources	KB	Republic of Korea	505,512	2005
University of Arizona	ARIZ	U.S.A.	500,000	1891
Università di Catania	CAT	Italy	500,000	1858
Herbario CORD	CORD	Argentina	500,000	1870
Institute of Botany of the National Academy of Sciences of Armenia	ERE	Armenia	500,000	1925
Universität Hohenheim (190)	HOH	Germany	500,000	1828
Maria Curie-Skłodowska University	LBL	Poland	500,000	1947
Uniwersytet Łódzki	LOD	Poland	500,000	1946
Museo de La Plata	LP	Argentina	500,000	1887
Museum für Naturkunde	MSTR	Germany	500,000	1872
Ohio State University	OS	U.S.A.	500,000	1891
Oregon State University	OSC	U.S.A.	500,000	1886
University of Oulu	OULU	Finland	500,000	1959
University of Oxford	OXF	U.K.	500,000	1621
Instituto de Botânica	SP	Brazil	500,000	1917
Tomsk State University	TK	Russia	500,000	1885
Norwegian University of Science and Technology	TRH	Norway	500,000	1760
Universität Tübingen	TUB	Germany	500,000	
Universidad Nacional Mayor de San Marcos	USM	Peru	500,000	1918

Institute of Biology and Soil Science, Far Eastern Branch, Russian Academy of Sciences	VLA	Russia	500,000	1916
Museo Nacional de Costa Rica	CR	Costa Rica	495,000	1887
Natural History Museum	BEO	Serbia	490,000	1895
Natural History Museum and Institute, Chiba	CBM	Japan	490,000	1989
Royal Ontario Museum	TRTC	Canada	490,000	1887
Tohoku University	TUS	Japan	485,000	1924

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

Table 3. Herbaria Newly Added to Index Herbariorum in 2020

Country	Code	Organization	Date Founded	Specimen Total
Argentina	HCFC	Centro de Investigación y Extension Forestal Andino Patagonico	1996	9200
Argentina	MICODIF	Universidad Nacional de San Luis	2014	1800
Argentina	UNCAT	Universidad Nacional de Catamarca	2020	577
		3		11,577
Bangladesh	MZAH	University of Rajshahi	1990	8000
Brazil	ARA	Universidade Federal de Alagoas	2012	6561
Brazil	BMA	Federal University of Maranhão	2016	2500
Brazil	CASA	Herbario Casa	2020	4900
Brazil	EVB	Universidade Federal da Integração Latino Americana	2015	4312
Brazil	FCCM	Fundação Municipal da Casa da Cultura de Marabá	1984	5000
Brazil	HNIM	Instituto Federal de Educação, Ciência e Tecnologia Farroupilha	2015	1500
Brazil	HRCB	Universidade Estadual Paulista	1977	75,000
Brazil	HVC	Universidade Federal da Bahia	2015	4500
BRAZIL	NUPEM	Instituto de Biodiversidade e Sustentabilidade	2006	3815
Brazil	PALM	Federal University of Santa Maria	2012	1300
Brazil	SHPR	Federal University of Technology, Paraná (UTFPR).	2019	1300

Brazil	UFPA	Universidade Federal do Pará	2011	1331
Brazil	UNOPA	State University Western Parana	2013	10,439
		13		122,458
Canada	FCSENRS	Fleming College	1973	400
Chile	LEMAS	Universidad de Magallanes	1998	2191
Chile	PUCV	Pontifical Catholic University of Valparaíso	1950	15,775
Chile	UFROH	Universidad de La Frontera	2015	50
		3		18,016
Colombia	CBUMAG	Universidad del Magdalena		4107
Congo, Republic of	HICPC	Initiative des Champignons et des Plantes du Congo	2017	10
Czech Republic	JESM	Jeseník Region Local History Museum (Vlastivědné muzeum)	1996	1527
Dominican Republic	HUNPHU	Universidad Nacional Pedro Henríquez Ureña	1970	13,366
Egypt	DAM	Damietta University		500
Ethiopia	SRPARI	Somali Region Pastoral and Agro-pastoral Research Institute	1995	5500
France	CBMC	Conservatoire Botanique National du Massif Central	1998	33,157
France	MLLS	Musée d'Archéologie		5000
France	SBAH	Société botanique de l'Ardèche	1979	23,000
		3		61,157
Gibraltar	GIB	Gibraltar Botanic Gardens	2020	200
India	HBJU	University of Jammu	1973	12,500
India	MUBL	University of Madras		1072
India	SSFH	High Altitude Research-Quality Control Laboratory	1931	5650

India	STC	St. Thomas' College (Autonomous) Thrissur	1968	2000
		3		21,222
Iran	ARD	School of Pharmacy, Ardabil University of Medical Sciences, Ardabil, Iran		950
Iran	UQH	University of Qom	2015	5000
		2		5950
Italy	CSN	Fondazione Parsec - Centro di Scienze Naturali	2012	5417
Italy	MIB	University of Milano - Bicocca		200
Italy	MN	Liceo Classico "Virgilio"	1820	3000
		3		8617
Japan	HCM	Hiratsuka City Museum	1976	77,500
Japan	KAP	Kagoshima Prefectural Museum		46,244
Japan	NGU	Niigata University		12,000
		3		135,744
Malaysia	UNISZA	Universiti Sultan Zainal Abidin	2008	423
Mexico	FESC	Facultad de Estudios Superiores Cuatitlán, Universidad Nacional Autónoma de México	1983	10,859
Mexico	HUAPLI	Universidad Autónoma de Puebla		2000
		2		12,859
New Zealand	NZFRIM	Scion		11,000
Nigeria	GSUH	Gombe State University	2005	5000
Pakistan	CHIT	University of Chitral	2018	400
Pakistan	ICP	Islamia College University Peshawar	1920	15,000
Pakistan	QARSHI	Qarshi Industries (Pvt.) Ltd.	2003	1000
		3		16,400
People's Republic of China	CDMU	Chengde Medical University		200

People's Republic of China	FFAAS	Fujian Academy of Agricultural Sciences, China	2019	2000
People's Republic of China	HBU	Hebei University	2020	1000
People's Republic of China	MBMCAS	Institute of Oceanology, Chinese Academy of Sciences	1950	142,000
People's Republic of China	NPH	Ningbo Botanical Garden	2014	500
People's Republic of China	SQNU	Shangqiu Normal University		10,000
People's Republic of China	SWJTU	Southwest Jiaotong University	1952	5000
People's Republic of China	ZZU	Zhengzhou University	2006	30,000
		8		190,700
Peru	CHAX	Universidad Nacional Toribio Rodriguez de Mendoza de Amazonas		unknown
Peru	MOQ	Universidad Nacional de Moquegua	2019	5500
		2		5500
Philippines	BATSTATEU	Verde Island Passage Center for Oceanographic Research and Aquatic Life Sciences (VIP CORALS)	2018	166
Republic of Korea	KBA	Baekdudaegan National Arboretum	2020	4000
Republic of Korea	MABIK	National Marine Biodiversity Institute of Korea		103,000
		2		107,000
Russia	BAIK	Western Baikal Protected Areas	1986	14,000
Russia	IBIW	Papanin Institute for Biology of Inland Waters, Russian Academy of Sciences	1954	63,000
Russia	MIRE	Papanin Institute for Biology of Inland Waters Russian Academy of Sciences	2015	7590
Russia	VO	Vologda State University	1912	105,000
		4		189590

Saudi Arabia	PNUH	Princess Nourah Bint Abdulrahman University, Riyadh, Kingdom Saudi Arabia	2013	4100
South Africa	CASCT	CASABIO - The Home of Biodiversity	2020	200
Sri Lanka	USJH	University of Sri Jayawardenepura		250
Tunisia	INAT	National Institute of Agronomy, Tunisia		3000
Turkey	MKUBK	Centre for Implementation and Research of Plant Health Clinic	2000	250
U.S.A.	COCC	Central Oregon Community College	1965	6099
U.S.A.	DEP	DePaul University	2020	26
U.S.A.	HOSP	Hot Springs National Park	1934	1308
U.S.A.	MSUDEN	Metropolitan State University of Denver		unknown
U.S.A.	OUF	USDA Forest Service		unknown
U.S.A.	SDBG	San Diego Botanic Garden		15
U.S.A.	SLCTNL	Salt Lake City Trails and Natural Lands	2019	670
U.S.A.	TBW	Tebiwa Herbarium	2002	389
U.S.A.	TMPH	Tidal Marsh Program	2020	unknown
U.S.A.	YLAH	Young Living Essential Oils	2018	100
			10	8607
Ukraine	KPU	Volodymyr Vynnychenko Central Ukrainian State Pedagogical University	2007	6340
Vietnam	VNFSIH	Forest Science Institute of Central Highlands and South of Central Vietnam (FSIH)	2000	400
TOTAL				1,006,558

Table 4. Herbaria Reported as Inactive in 2020

Note that some herbaria reported here became inactive prior to 2020 but were not previously reported as such.

Country	Code	Organization	City	Notes/Disposition of Specimens
Australia	CBG	Australian National Herbarium	Canberra	The herbarium collections, staff, databases, and research programs of the Australian National Botanic Gardens (CBG) were combined with those of the Australian National Herbarium (CANB) as part of the jointly managed and funded Centre for Plant Biodiversity Research. CANB was adopted as the herbarium abbreviation for the combined collections. Specimens originally from CBG will continue to be cited as CBG. The approximately 250 000 CBG specimens are included in the total for CANB. Information regarding CBG is included with CANB. Correspondence, including loan requests, should be directed to CANB. Non-angiosperms are stored in a different building, at -35.278329, 149.108841.
Brazil	SPB	Universidade de São Paulo	São Paulo	Transferred to SPF.
Lithuania	HSUD	Station of Nature Research and Environmental Education		In 2016 specimens from this herbarium were transferred to the herbarium of the Institute of Botany (BILAS).
Switzerland	BERN	University of Bern	Bern	Herbarium of Eduard Frey (30 000 lichens) transferred to G in 2000. Bryophyte herbarium collection transferred to Z in 2008.
U.K.	DSY	Dewsbury Museum	Dewsbury	Closed permanently on 6 November 2016. The relocation of any herbarium specimens previously at DSY is currently unknown.
U.K.	GLLB	Laurel Bank School	Glasgow	After merging with the Park School for Girls in 1996, forming Laurel Park School, the institution permanently closed in 2002. The relocation of any herbarium specimens previously held by GLLB is unknown.
U.K.	HIN	Hitchin Priory	Hitchin	The Hitchin Priory is now a hotel. The relocation of any herbarium specimens previously at HIN is unknown.
U.K.	CHFD	Chelmsford Museum	Chelmsford	The herbarium is permanently closed
U.K.	KEND	Kendal Natural History Society	Kendal	Herbarium specimens now incorporated into KDL.

U.K.	NCLN	New College	London	New College London closed in 1980. The relocation of any herbarium specimens is currently unknown.
U.K.	MVN	Public Library	Malvern	MVN transferred to WOS.
U.K.	TSTN	Troston Village Hall	Bury St Edmunds	Troston Village Hall is now a wedding and events venue (as of 1986). The relocation of any herbarium specimens is unknown.
U.K.	SGEL	Stalybridge Library	Stalybridge	SGEL transferred to TMAL.
U.K.	EGHB	University of Edinburgh	Edinburgh	EGHB (ca. 2500 specimens) transferred to E.
U.K.	SGE	Stamford Park Museum	Stalybridge	SGE transferred to TMAL in 1951.
U.K.	LDS	Leeds Museums and Galleries	Leeds	LDS is being incorporated into LES.
U.S.A.	FNLO	Fremont National Forest	Lakeview	FNLO (2000 specimens) transferred to BLMLK in 1981. Contact Matt Lewis (mlewis@blm.gov).

Table 5. 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>
2020	3426	Archived dataset for <i>World's Herbaria 2019</i>

Table 6. 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>
2019	392,252,689	Archived dataset for <i>World's Herbaria 2019</i>
2020	396,204,891	Archived dataset for <i>World's Herbaria 2020</i>