

The World's Herbaria 2022:

A Summary Report Based on Data from Index Herbariorum

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Barbara M. Thiers
Editor, *Index Herbariorum*

This document represents the sixth *Index Herbariorum* annual report. Reports for 2016 - 2022 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 31 December 2022.

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 31 December 2022, there are 3567 active herbaria in the world containing 396,746,986 specimens, which is 851,267 fewer than the total reported last year. This decline is the result of institutions updating their estimated totals with actual counts as obtained through digitization. Comparison with totals reported in previous years are given in Table 5 and Table 6. In 2022, 22 herbaria were newly reported as inactive or permanently closed, and 109 were newly registered (representing 586,433 specimens in total). There are now 183 countries with at least one herbarium. Associated with the world's herbaria are 13,717 staff members and associates.

2022 was the sixth 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 1235 updates were submitted by IH participants (including new registrations of herbaria and staff), an average of 24 updates per week.

Since 2011, 682 herbaria have been newly registered in *Index Herbariorum*, and the total number of specimens reported for all herbaria increased by 36,746,986.

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/XXX>).

Table 1. Summary of herbaria by Country

Country	2021 herbaria	2021 Specimens	2021 Staff & Associates
Afghanistan	1	33,609	2
Algeria	4	377,365	5
Andorra	1	1068	1
Angola	2	125,000	2
Argentina	61	5,138,397	561
Armenia	4	576,820	23
Australia	36	8,561,063	285
Austria	19	11,063,710	113
Azerbaijan	1	600,000	2
Bahamas	1	7215	6
Bangladesh	3	139,000	15
Barbados	1	5000	1
Belarus	6	531,526	46
Belgium	9	5,166,332	50
Belize	1	10,000	2
Benin	2	32,000	6
Bhutan	1	15,000	6
Bolivia	4	525,000	47
Bosnia and Herzegovina	4	116,011	5

Botswana	5	34,479	14
Brazil	197	8,552,091	957
Brunei Darussalam	4	59,000	7
Bulgaria	5	441,700	28
Burkina Faso	3	20,940	17
Burundi	1	20,000	3
Cambodia	1	12,500	5
Cameroon	3	137,000	11
Canada	93	9,350,496	244
Cayman Islands	1	1369	1
Central African Republic	1	10,000	5
Chad	1	8,000	2
Chile	22	542,029	69
Colombia	41	1,744,194	153
Comoros	1	8,600	5
Congo, Democratic Republic	12	300,621	50
Congo, Republic of (Congo-Brazzaville)	2	42,300	1
Costa Rica	6	650,926	53
Croatia	11	385,884	34
Cuba	13	847,027	106
Cyprus	2	13,069	6
Czech Republic	49	8,478,605	143
Denmark	2	3,600,000	59
Djibouti	1	172	4
Dominican Republic	6	189,601	26
Ecuador	18	810182	72
Egypt	20	734,066	93
El Salvador	4	76173	6
Equatorial Guinea	1	8000	2
Estonia	8	1,213,506	32
Ethiopia	5	178,080	17

Falkland Islands	1	1135	1
Fiji	1	40,000	1
Finland	11	5,525,829	96
France	89	24,133,688	219
French Guiana	1	170,000	13
French Polynesia	2	24,000	4
Gabon	1	65,000	9
Georgia	7	1,398,821	26
Germany	72	22,600,900	261
Gibraltar	1	200	1
Ghana	5	103,101	9
Greece	13	456,414	36
Greenland	1	500	0
Guadeloupe	1	10,000	2
Guam	2	60,775	5
Guatemala	6	142,503	34
Guinea. Republic of	2	21,650	4
Guyana	3	57,850	5
Haiti	1	7,216	1
Honduras	5	309,621	11
Hungary	13	2,687,648	51
Iceland	2	164,000	5
India	130	5,844,148	480
Indonesia	13	2,221,631	68
Iran	48	1,108,197	160
Iraq	10	185,331	30
Ireland	7	923,633	11
Isle of Man	1	3000	1
Israel	5	1,237,720	11
Italy	90	11,518,488	340
Ivory Coast	3	52,650	8

Jamaica	2	161,600	5
Japan	76	13,736,928	248
Jordan	2	10,490	6
Kazakhstan	5	711,500	24
Kenya	3	1,300,000	17
Korea, Republic of	48	3,327,821	188
Kuwait	1	20,000	5
Kyrgyzstan	1	400,000	2
Laos	2	8700	7
Latvia	7	599,900	26
Lebanon	1	68,000	1
Lesotho	3	21,600	10
Liberia	1	7000	0
Libya	2	50,000	12
Lithuania	3	467,100	24
Luxembourg	1	90,000	7
Macedonia	5	256,430	15
Madagascar	4	421,000	7
Malawi	1	100,000	12
Malaysia	15	1,021,132	72
Mali	1	6400	4
Malta	1	10,000	1
Martinique	1	2142	1
Mauritania	1	6200	3
Mauritius	1	25,000	1
Mayotte	1	5,400	2
Mexico	78	5,285,184	416
Moldova	2	221,200	2
Mongolia	2	143,400	5
Montenegro	2	24000	5
Morocco	5	217,577	21

Mozambique	3	127,435	18
Myanmar	3	57,000	3
Namibia	1	96000	8
Nepal	2	185,000	26
Netherlands	16	7,350,000	95
New Caledonia	1	95,000	8
New Zealand	13	1,733,559	73
Nicaragua	3	44,000	11
Nigeria	12	223,550	23
Norway	7	3,445,000	34
Oman	4	26,331	6
Pakistan	34	675,618	89
Palestinian Territories	1	755	2
Palau, Republic of	2	3750	3
Panama	4	175,416	16
Papua New Guinea	4	324,300	9
Paraguay	4	132,500	16
People's Republic of China	381	20,450,993	1500
Peru	25	1,240,993	113
Philippines	22	500,153	82
Poland	36	5,498,161	216
Portugal	22	1,090,677	89
Puerto Rico	5	167,430	11
Réunion	2	27,856	6
Romania	17	2,838,084	40
Russia	138	16,490,547	524
Rwanda	2	21,114	4
Samoa	1	400	1
São Tomé e Príncipe	1	1500	3
Saudi Arabia	7	117,600	20
Senegal	1	12,000	2

Serbia	5	747,950	27
Seychelles	1	3081	1
Sierra Leone	2	62,000	3
Singapore	2	783,695	24
Slovakia	19	1,247,905	76
Slovenia	4	220,000	8
Solomon Islands	1	40,000	3
Somalia	1	236	1
South Africa, Republic of	46	3,256,551	157
Spain	57	6,153,648	413
Sri Lanka	8	182,689	7
Sudan	3	35,500	6
Suriname	1	37,000	3
Swaziland	1	7200	3
Sweden	10	11,951,000	60
Switzerland	17	12,807,534	90
Taiwan	16	1,527,126	66
Tajikistan	1	30,000	3
Tanzania	6	158,745	18
Thailand	17	791,964	117
Togo	1	21,000	2
Tonga	1	3030	2
Trinidad	1	50,468	5
Tunisia	2	3200	2
Turkey	64	1,086,070	280
Turkmenistan	1	135,000	2
U.K.	137	23,636,118	434
U.S.A.	750	79,006,081	1965
Uganda	4	131,767	5
Ukraine	28	4,099,862	121
United Arab Emirates	2	27,000	3

Uruguay	5	217,000	28
Uzbekistan	3	1,520,500	6
Vanuatu	1	20,000	2
Venezuela	20	1,058,092	94
Vietnam	19	579,037	131
Virgin Islands, U.S.A.	1	3000	1
Yemen	1	5500	3
Zambia	4	111,000	19
Zimbabwe	5	540,636	20

Table 2. The Largest Herbaria in the World

This list includes those herbaria with 500,000 specimens or more.

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.	5,200,000	1753
Smithsonian Institution	US	U.S.A.	5,100,000	1848
Harvard University ²	<i>HUH2</i>	U.S.A.	5,000,500	
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	3,393,629	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.	2,700,000	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
Eidgenössische Technische Hochschule Zürich	ZT	Switzerland	2,440,000	1859
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	2,264,207	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
Botanical Survey of India	CAL	India	2,086,650	1793
National Museum of Nature and Science	TNS	Japan	2,063,204	1877
Research Centre for Biology	BO	Indonesia	2,000,000	1841
National Museum in Prague	PR	Czech Republic	2,000,000	1818
Universität Zürich	Z	Switzerland	1,840,000	1834
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
Senckenberg Gesellschaft für Naturforschung: Senckenberg Forschungsinstitut und Naturmuseum	FR	Germany	1,500,000	1817
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	1,400,000	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

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
Upper Austrian State Museum	LI	Austria	1,200,000	1833
Karl-Franzens-Universität Graz	GZU	Austria	1,200,000	1900
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
Moscow State University	MW	Russia	1,109,606	1765 or 1780
University of Gothenburg	GB	Sweden	1,100,000	1926
University of Cambridge	CGE	U.K.	1,100,000	1761
Upper Austrian State Museum	LI	Austria	1,200,000	1833
Instituto Politécnico Nacional	ENCB	Mexico	1,080,000	1943
University of Wisconsin	WIS	U.S.A.	1,078,000	1849
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
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	932,700	1919
Moravian Museum	BRNM	Czech Republic	903,000	1818
Queensland Herbarium	BRI	Australia	897,905	1881
Jardim Botânico do Rio de Janeiro	RB	Brazil	850,000	1890
Cornell University	BH	U.S.A.	845,000	1935
Western Australian Herbarium	PERTH	Australia	821,870	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
Manaaki Whenua - Landcare Research	CHR	New Zealand	800,000	1928
Bishop Museum	BISH	U.S.A.	750,000	1908
Universität Göttingen	GOET	Germany	750,000	1832
Singapore Botanic Gardens	SING	Singapore	750,000	1880
Instituto de Botánica Darwinion	SI	Argentina	749,999	1911
Université de Montréal	MT	Canada	730,000	1920
University of British Columbia	UBC	Canada	713,000	1912
Fundación Miguel Lillo	LIL	Argentina	720,000	1931
Aarhus University	AAU	Denmark	700,000	1963
University of Bergen	BG	Norway	700,000	1825
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
United State National Arboretum	NA	U.S.A.	700,000	1934
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
Korea National Arboretum	KH	Republic of Korea	640,744	1999
Canadian Museum of Nature	CAN	Canada	640,000	1882
Université Laval	QFA	Canada	637,528	1962
UNIVEGE Université Clermont Auvergne	CLF	France	630,000	1865
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
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
Martin-Luther-Universität	HAL	Germany	600,000	1812
Museum of Nature and Human Activities	HYO	Japan	600,000	1992

Università degli Studi di Padova	PAD	Italy	600,000	1835
National Museum	PRM	Czech Republic	600,000	1818
Instituto de Botânica	SP	Brazil	600,000	1917
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
Carnegie Museum of Natural History	CM	U.S.A.	540,000	1895
Instituto de Botânica del Nordeste	CTES	Argentina	530,000	1965
Michigan State University	MSC	U.S.A.	522,831	1863
Institute of Biology and Soil Science, Far Eastern Branch, Russian Academy of Sciences	VLA	Russia	521,500	1916
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	513,736	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
Tokyo Metropolitan University	MAK	Japan	500,000	1958
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
Museu Nacional	R	Brazil	500,000	1831
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
	<i>¹ Naturalis now houses L, WAG, and U although they are curated as separate collections</i>			
	<i>² "HUH" is an informal code for the Harvard University Herbaria, which includes A, AMES, ECON, FH, GH, NEBC</i>			

Table 3. Herbaria Newly Added in 2022

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

Country	Code	Organization	Date Founded	Specimen Total
Algeria	ABHCH	Laboratory of Natural Resource Valorisation,	2021	1
Argentina	BOTSR	History Natural Museum of San Rafael	1965	13000
Argentina	HEPE	INTA EEA Pergamino	2022	100
Argentina	LPPH	National Council for Scientific and Technical Research (CONICET)	2019	60
Australia	TERN	Terrestrial Ecosystem Research Network (TERN)	2012	50837
Belgium	LOUV	Université catholique de Louvain		8000
Brazil	CUMB	Universidade Federal do Pará	2017	3577
Brazil	GRAU	Universidade Federal do Maranhão	2021	100
Brazil	JABU	Herbarium JABOTI	2011	1500
Canada	ACFS	Aurora College		2000
Chile	CONCF	Universidad de Concepción	2006	2000
Colombia	HUCO	Engineering Faculty, Catholic University		13543
Colombia	JIW	Universidad Nacional de Colombia	2021	3150
Colombia	LAMUA	Universidad de la Amazonia	2022	500

Czech Republic	ROK	Západočeské muzeum v Plzni	Before 1950	10454
Democratic Republic of the Congo	HNYUOB	Université Officielle de Bukavu	2021	2177
Dominican Republic	ELE	University ISA	2019	1190
Ecuador	ICAI	Pontificia Universidad Católica del Ecuador Sede Ibarra	2012	7000
Egypt	MANS	Faculty of Pharmacy, mansoura University, Egypt	1970	500
Germany	NML	Naturkundemuseum Leipzig	1930	30000
Ghana	CPMR	Centre for Plant Medicine Research		1049
Hungary	GODU	Hungarian University of Agriculture and Life Sciences	1949	50000
India	BJB	Hon. Balasaheb Jadhav college Ale	1994	8000
India	CPBH	St. Xavier's College	2015	2300
India	CSIR-NEIST	CSIR-North East Institute of Science and Technology, Jorhat - 785006, Assam	2005	10000
India	DUTHIE	University of Allahabad	1923	6000
India	GFGCRBG	Government First Grade College, Raibag		200
India	IJK	St. Joseph's College (Autonomous), Irinjalakuda	1980	3100
India	MGCH	Mata Gujri College	2019	520
India	NCK	New College		1750
India	PCA	Pratap College, Amalner .	2020	2500
India	RKMVCCH	Ramakrishna Mission Vivekananda Centenary College	2014	500
India	SGH	The Madura College		5674
India	SJB	St. Joseph's College for Women, Alappuzha,		180
India	TBGH	Telangana Botanical Garden		2200
India	TOESHIM	Orchid Society of the Eastern Himalayas	2020	1012
Indonesia	HBB	Universitas Bangka Belitung	2007	3500
Indonesia	UIDEP	Ruang Koleksi Biota Universitas Indonesia	2018	8016
Iran	GUH	University of Guilan	2000	10000
Iran	HIUT	Isfahan University of Technology	1993	17690
Iran	HSUH	Hakim Sabzevari University		732

Iran	LUMH	Lorestan University of Medical Sciences	2022	150
Italy	FST	Fondazione Scienza e Tecnica		19500
Italy	HFAP	Flora d'Abruzzo	2016	550
Italy	HGRES	Istituto Salesiano	1990	4000
Italy	IT	University of Campania Luigi Vanvitelli	2022	22500
Italy	MNAIT	Italian National Antarctic Museum	2010	50
Liberia	NML	Forestry Training Institute	2022	1300
Malaysia	FP	Universiti Pendidikan Sultan Idris	2012	1500
Mexico	CBGM	Instituto Politécnico Nacional	2010	30
Mexico	CITRO	Centro de Investigaciones Tropicales, Universidad Veracruzana	2010	1396
Mexico	FCQB	Universidad Autónoma de Guerrero		5000
Mexico	HUAN	Universidad Autónoma de Nayarit		1100
Mexico	TESH	Technological Institute of Higher Studies of Huixquilucan	2015	2940
Netherlands	VERBOOM	Verboom Private Herbarium	2018	3000
Nigeria	ABUH	Ahmadu Bello University, Zaria	1962	5000
Nigeria	FHJ	Federal College of Forestry Jos	1958	595
Pakistan	KOTLI	Pakistan University Kotli, Azad, Jammu & Kashmir		1500
Pakistan	UEH	University of Education Lahore, Pakistan	2022	1000
People's Republic of China	FAFU	Fujian Agriculture and Forestry University		5
People's Republic of China	HJAUP	Jiangxi Agricultural University	2013	1100
People's Republic of China	HMSAU	Shanxi Agricultural University		5100
People's Republic of China	QNUH	Quijing Normal University		30000
People's Republic of China	TIO	Third Institute of Oceanography, Ministry of Natural Resources, China	2013	30
Peru	HSCH	Herbario San Cristóbal de Huamanga	2014	7896
Philippines	HS	Sorsogon State University		2500
Poland	BLS	Białystok University of Technology	1986	23550
Portugal	UMAD	University of Madeira	2021	10000
Republic of Korea	KSA	Sejong National Arboretum	2020	1120

Russia	MIMB	A.V. Zhirmunsky National Scientific Center of Marine Biology Far Eastern Branch, Russian Academy of Sciences		1994
Russia	MKAC	K.A. Timiryazev Institute of Plant Physiology, Russian Academy of Sciences	2014	8500
Russia	SVALP	St. Alexis Hermitage Orthodox Charity Monastery-Brotherhood	2001	5278
Thailand	SLR	SuanLuang Rama IX Royal Botanic Garden		9426
Turkey	AKDE	Akdeniz University, Herbarium of the Education Faculty	2019	2218
Turkey	BIN	Bingöl University Herbarium		11597
Turkey	CUFEFB	Çukurova University, Science and Letters Faculty	1983	7500
Turkey	EBYU	Erzincan Binali Yıldırım University	2006	13628
Turkey	KASOF	Kahramanmaraş Sütçü İmam University, Faculty of Forestry	2011	2500
Turkey	TC	National Botanical Garden of Türkiye	2020	1350
Turkey	TRZYNT	Olive Cultivation Research Institute		1
U.S.A.	AUSTIN	US Forest Service - Humboldt-Toiyabe National Forest		500
U.S.A.	BLMBI	Bureau of Land Management		1110
U.S.A.	BLMGJFO	Bureau of Land Management, Grand Junction Field Office		476
U.S.A.	BORR	UC Berkeley, Blue Oak Ranch Reserve		50
U.S.A.	BRDPRT	Humboldt-Toiyabe National Forest		500
U.S.A.	CARSON	Carson City Ranger District, Humboldt-Toiyabe National Forest		500
U.S.A.	CBBG	Crested Butte Botanic Gardens	2022	500
U.S.A.	CMNH	Cincinnati Museum Center (Cincinnati Museum of Natural History)		500
U.S.A.	ELKOFs	Humboldt-Toiyabe National Forest		2000
U.S.A.	ELON	Elon University		2197
U.S.A.	ELYFS	Humboldt-Toiyabe National Forest		1000
U.S.A.	FSUH	Frostburg State University		2500
U.S.A.	FTPK	Fort Polk Joint Readiness Training Center		6364
U.S.A.	GMCGC	Goshen College	1827	6589
U.S.A.	HOMU	Marymount University	2017	400
U.S.A.	KBL	Kelley Botanical Library	2022	20

U.S.A.	LAARB	Louisiana State Arboretum	1967	600
U.S.A.	MMUIWV	Maturango Museum of the Indian Wells Valley	1966	1200
U.S.A.	PACE	Pace University	1990	1500
U.S.A.	SHIP	Shippensburg University	1962	14383
U.S.A.	SMMSH	U.S. National Park Service	2001	1200
U.S.A.	UTPB	University of Texas Permian Basin	1973	1000
U.S.A.	UTU	Dixie State University	1916	21298
U.S.A.	WBU	Wayland Baptist University		2500
Ukraine	IF	Pre-Carpathian National University called after Vasyl' Stefanyk	2019	5210
Ukraine	LNU	Luhansk Taras Shevchenko National University	1935	6000
United Kingdom	EPL	Cornwall College	2016	120
Vietnam	ION	Institute of Oceanography		1500
Vietnam	VMO	Museum of Oceanography	1922	5000
				587733

Table 4. Herbaria Reported as Inactive in 2022

Note that some herbaria reported here became inactive prior to 2022 but were not previously reported as such.

Country	Code	Organization	Notes
Belgium	BRGE	Laboratoire de Génétique des Plantes Supérieures	BRGE (3000 specimens) transferred to BRLU.
Canada	BRS	Brandon Research Centre	permanently closed
Canada	DAS	Saskatoon Research Centre	permanently closed
Canada	PEI	Charlottetown Research Centre	permanently closed
Germany	OSBO	Osnaabrück University	permanently closed
Poland	BRSL	Wrocław University	BRSL same as WRSL. Use WRSL.
Tanzania	TFD	Tanzania Forestry Research	permanently closed

U.S.A.	BOSC	Boston State College	BOSC (16 500 specimens) transferred to NASC in 1982.
U.S.A.	VFWO	US Fish & Wildlife, Ventura Office	permanently closed
U.K.	BONB	Bolton Botanical Society	BONB transferred to BON.
U.K.	BONL	Bolton Linnean Society	BONL no longer exists.
U.K.	BOR	Guernonprez Museum	BOR on loan to PMH.
U.K.	BRC	Botanical Record Club	BRC transferred to K.
U.K.	BRIST	University of Bristol	BRIST transferred to BRISTM and NMW.
U.K.	BRMI	Birmingham and Midland Institute	BRMI no longer exists.
U.K.	BRN	Sexey's School	BRN no longer exists.
U.K.	BRSN	University of Wales	BRSN no longer exists.
U.K.	BRTN	Brighton Natural History Society	BRTN transferred to BTN.
U.K.	BSL	Botanical Society of London	BSL no longer exists.
U.K.	BST	Belfast Naturalists' Field Club	BST transferred to BEL.
U.K.	BSTN	Boothstown Botanical Society	BSTN no longer exists.
U.K.	BTT	Burton-upon-Trent Natural History and Archaeological Society	BTT no longer exists.

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 ed. 5</i>
1974	1700	<i>Index Herbariorum ed. 6</i>
1983	1900	<i>Index Herbariorum ed. 7</i>
1990	2639	<i>Index Herbariorum ed. 7</i>
2011	2885	Archived dataset for IBC 2011 presentation

2016	2962	Archived dataset for World's Herbaria 2016
2017	3001	Archived dataset for World's Herbaria 2017
2018	3095	Archived dataset for World's Herbaria 2018
2019	3324	Archived dataset for World's Herbaria 2019
2020	3426	Archived dataset for World's Herbaria 2020
2021	3522	Archived dataset for World's Herbaria 2021
2022	3567	Archived dataset for World's Herbaria 2021

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>
2021	397,598,253	Archived dataset for <i>World's Herbaria 2021</i>
2022	396,746,986	Archived dataset for <i>World's Herbaria 2022</i>