

List of the studied "Lemnaceae" samples : origin and chromosome numbers

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List of the studied *Lemnaceae* samples: origin and chromosome numbers

by

Elias LANDOLT and Krystyna URBANSKA-WORYTKIEWICZ

The list serves as the point of reference to the papers on taxonomy (E. LANDOLT) and cytological variation within the *Lemnaceae* (K. URBANSKA-WORYTKIEWICZ), published in the present volume.

The samples were partly collected in the wild by the authors, but mostly obtained from numerous collectors either in form of sterile cultures or as live materials. Unfortunately, some samples died soon after arrival, so cytological studies have not been possible.

The list follows a general structure of the *Lemnaceae* family, the particular taxa being placed in the same order as in the two afore mentioned papers. As far as the origin of the material is concerned, the following sequence of geographical regions and continents has been accepted: North America, Central America and West Indies - South America - Europe - Africa - Asia - Australia - Pacific Ocean Region. On the other hand, countries, states, provinces or counties as well as definite locations are listed alphabetically.

The markings and abbreviations used in the list:

* = obtained as sterile cultures

R. = remarks; see the headings

+ = alive; shall be kept in the collection of the Geobotanical Institute ETH (Swiss Federal Institute of Technology), Zürich, at least until January 1982

- = eliminated after having been studied

ns = no cytological study, samples dead or arrived after January 1st, 1980

L. = LANDOLT

U. = URBANSKA-WORYTKIEWICZ

Chromosome numbers given in brackets refer to aneusomatic or mixoploid fronds.

Two chromosome numbers separated by a comma refer to mixed populations.

Origin	<i>S. intermedia</i> <i>S. polyrrhiza</i>	collected by (sent by)	ETH No. (orig.No.)	2n	R.
<i>SPIRODELA</i>					
<i>Spirodela intermedia</i>					
SOUTH AMERICA					
Argentina					
Buenos Aires, Alrededores de La Plata		Rossi (Guarrera)	7230	30	-
Buenos Aires, Arroyo Burgeno		Leon	7201	30	-
Buenos Aires, Arroyo Vitel, Chascomas		Tur	7920	30	+
Buenos Aires, Buenos Aires		Leon	7178	30	+
Corrientes, Concepcion, Carambola		Pedersen	8622	ns	-
Corrientes, Mburucuyá, "Santa Teresa"		Pedersen	7702	30	+
Entre Rios, La Paz		Burkart (Giardelli)	7714 (21132)	30	+
Entre Rios, La Paz		Burkart (Mujica)	8427	30	-
Tucuman, Capital		Meyer	7342	30	+
Brazil					
Parana, Paranagua, Shangri-la		Hatschbach	7708 (30626)	30	-
Sao Paulo, Caraguatatuba,		Sucre, Burle, Freire	7361 (6454)	30	+
Paraguay					
Asunción, Rio Salado, Pasopé		Bordas	7820	30	+
Peru					
Lima, Bot. Garden		Fernandez (Mendiola)	7747	20	+
Lima, Laguna de Villa		Fernandez (Mendiola)	7746	ns	-
Lima, Laguna de Villa		Fernandez (Mendiola)	7797	20	+
Uruguay					
Canelones, Carrasco		Rosengurtt	7285	30	+
-		Izaguirre (McClure*)	7125 (115)	30	+
ASIA					
India					
Delhi, Botanical Garden		Maheshwari, Sopori	7450	30	+
<i>Spirodela biperforata</i>					
CENTRAL AMERICA					
Panama					
Panama City		Klötzli	8410	30	+
SOUTH AMERICA					
Brazil					
Amazonas, Manaus		Mitchell (Cook)	7291	30	+
Amazonas, Manaus		Junk	8312	30 (32)	-
Surinam					
Paramaribo, Charlesburg		Teunissen	7355 (LBB-12757)	30	+
Paramaribo, Saramacca R.		Teunissen	7357 (LBB-12756)	30	+
Paramaribo, Saramacca R.		Teunissen	7359 (LBB-12755)	30	-
Paramaribo, Zypad		Cramer	8258 (LBB-14887)	20	-
<i>Spirodela polyrrhiza</i>					
NORTH AMERICA					
Canada					
British Columbia					
Saanich, Swan L.		Buchanan	7727	40	-
Saanich, Elk L.		Baillie (Buchanan)	7729	40	-
Beaver L.		Buchanan	8298	40	-
Ontario					
Baptiste Creek		Staniforth (Hume)	7771	40	-
Fronterac Co., Odessa, Meed L.		Crowder	7874	40	-
Leeds Co., L. Opinccori		Crowder	7858	ns	-
Whitefish L.		Garton (Hume)	8329	40	-
York Co., Ajax		Sparling (Goepfert)	7576	40	-
York Co., Whitby Marsh		Goepfert	7571	40	+

Origin	<i>S. polyrhiza</i>	collected by (sent by)	ETH No. (orig.No.)	2n	R.
Mexico					
Tabasco, Villahermosa		Gigon	7652	30	+
Veracruz, Coatzacoalcas		Gigon	7657	30	+
U.S.A.					
Alabama					
Jackson Co., Guntersville		Stanley	7979	40	-
Limestone Co., Beaverdam Creek		Stanley	7970	40	+
Madison Co., Blackwell Swamp		Stanley	7973	40	-
Madison Co., Indian Creek		Stanley	7975	40	-
Arkansas					
Clark Co., Arkadelphia		L., U.	8016	40	-
Clark Co., Gurdon		L., U.	8021	40,38	-
Crittenden Co., Wapanocca		Bates (Ott)	8409	40	+
Hemstead Co., Grassy L.		Demaree (Clark*)	7513 (N259)	40	+
Union Co., Bernice		L., U.	8025	40	-
Union Co., El Dorado		L., U.	8024	40	-
California					
Fresno Co., Centerville		Nobs, Hiesey, L.	6613 (873)	40 (34)	+
Santa Cruz Co., Kelly L.		L., U.	8174	40	-
Santa Cruz Co., Lake Thynan		Gigon	7626	40	+
Santa Cruz, Lake Thynan		L., U.	8176	40	-
Tuolumne Co., Shawmet Grade		Hiesey, Nobs, L.	6593	ns	-
Colorado					
Routt Co., Stemboat Springs		L., U.	8197	40	+
Connecticut					
Tolland Co., Mansfield Depot		Heisy, Rich	7835	40	-
-		Hillman (McClure*)	7106 (SPY)	40	+
Florida					
Glades Co., L. Okeechobee		Clark*	7493 (3506)	40	-
Hillsborough Co., Tampa		Webb	7778	ns	-
Suwannee Co., Live Oak		Hume	7821	40	-
Suwannee Co., U.S. 90		Alston (McClure*)	7160 (25)	40	+
Illinois					
Chicago, Salt Creek		Ehrlich	7802	40	-
Hancock Co., Larry Creek		Henry	7985	40	-
Hancock Co., Nauvoo		Henry	7981	40	-
Iowa					
Dickinson Co., Emerson Bay		Hulbary	7393	40	+
Kansas					
Barber Co., Medicine Lodge		L., U.	8004	40	-
Harper Co., Anthony		L., U.	8007	40	-
Wyandotte Co., Kansas City		Saeger (Hillman*)	7108 (SPS)	40 (80)	+
Kentucky					
Henderson Co., Geneva		Beal	7890	40	+
Henderson Co., Geneva		Beal	7893	40	-
Henderson Co., Hancock Slough		Hartowitz (Beal)	7896	40	-
Trigg Co., Hematite L.		Stanley	7959	40	-
Louisiana					
East Baton Rouge Par., LSU		Culley	7849	40	-
Iberia Par., Avery Island		Clark*	7505 (3775)	40	-
Rapides Par., Alexandria		L., U.	8033	40	-
Rapides Par., Lecompte		L., U.	8037	40	-
Terrebonne Par., Morgan City		L.	7003	40	+
Vermilion Par., Pecan Island		L., U.	8045	40	-
Vermilion Par., Pecan Island		L., U.	8048	~40	-
Vermilion Par., Pecan Island		L., U.	8056	40	-
Massachusetts					
Hampden Co., Holyoke, Millpond		McNabb	7904	40	-
Middlesex Co., Concord, Sudbury R.		Hellquist	7953	40	-
Michigan					
Ottawa Co., Spring L.		McNabb	7905	40	-

Origin	<i>S. polyrrhiza</i>	collected by (sent by)	ETH No. (orig.No.)	2n	R.
Montana					
Flathead Co., Flathead R., McWenegar Slough, Mooar			7941	40	+
New Jersey					
Bergen Co., Harrington	L.		6581	40	+
Mercer Co., Princeton	L.		8610	40	-
Morris Co., Morristown	L.		8613	40	-
New York					
Clinton Co., Wickham Marsh		Smith, Rogerson, Dean (Ogden)	7870 (49517)	40	-
North Carolina					
Camden Co., Belcross	L.		8517	40	-
Camden Co., Belcross	L.		8522	ns	-
Camden Co., Plasquotank R.	L.		8513	40	-
Columbus Co., L. Waccamaw	L.		8474	40	-
Currituck Co., Gregory	L.		8527	ns	-
Currituck Co., Gregory	L.		8532	ns	-
Currituck Co., Waterlily	L.		8534	ns	-
Currituck Co., Waterlily	L.		8536	ns	-
Dare Co., Kill Devil Hill	L.		8494	ns	-
Dare Co., Nags Head Woods	L.		8480	40	-
Dare Co., Nags Head Woods	L.		8483	40	+
Dare Co., Nags Head Woods	L.		8488	40	-
Durham Co., Durham	Clark*		7498 (3527)	40	+
Durham Co., Durham	Clark*		7506 (3901)	40	-
Gates Co., Gatesville	L.		8506	40	-
Northampton Co., Rich Square	L.		8503	40	-
Pasquotank Co., Halls Creek	L.		8509	40	-
Ohio					
Clark Co., South Charleston	Roberts		7864	40	-
Coshocton Co., Blissfield	L.		8556	40	-
Holmes Co., Killbuck	L.		8559	ns	-
Holmes Co., Killbuck	L.		8561	ns	-
Holmes Co., Killbuck	L.		8565	40	-
Holmes Co., Killbuck	L.		8570	ns	-
Licking Co., Cranberry Island	Roberts		7909 (4014)	40	-
Muskingum Co., Blackrum	L.		8547	ns	-
Muskingum Co., Blackrum	L.		8551	40	+
Oklahoma					
Kay Co., Braman	L., U.		8009	40	-
Tulsa Co., Tulsa	L., U.		8013	40	-
Oregon					
Douglas Co., Tahkenitch L.	L.		6731	40	+
Pennsylvania					
Butler Co., L. Arthur	L.		8597	40	-
Chester Co., Longwood	L.		8602	40	-
Perry Co., Newport	L.		8600	40	-
Venango Co., Sugar Creek	Tropea		7926	40	+
South Carolina					
Jasper Co., Savannah R.	L.		8459	ns	-
Jasper Co., Savannah R.	L.		8463	40	-
South Dakota					
Lincoln Co., Tea	L., U., Rogers		8204	40	-
Tennessee					
Obion Co., Reelfoot L.	Stanley		7960	40	+
Perry Co., Springfield Stream	Stanley		7966	40	-
Texas					
Brazoria Co., Old Ocean	L., U.		8062	40	-
Brewster Co. (aquarium)	Bold (McClure*)		7120 (10)	40	+
Davis Co., Tohyavale	L., U.		8118	40	+

Origin	<i>S. polyrrhiza</i>	collected by (sent by)	ETH No. (orig.No.)	2n	R.
Texas (continued)					
Gonzales Co., Wood L.		L., U.	8083	40	-
Hays Co., Aquarena Springs		L., U.	8101	40	-
Hays Co., San Marcos		L., U.	8096	40	-
Hays Co., San Marcos		Bruchmiller (Hannan)	7774	40	+
Matagorda Co., Cedar Lane		L., U.	8073	40	-
Matagorda Co., Cedar Lane		L., U.	8067	40	-
Victoria Co., Placedo		L., U.	8078	40	-
Virginia					
Bath Co., Warmsprings		L.	8544	ns	-
Frederik Co., Winchester		Ott	8344	40	-
James City Co., Williamsburgh		Ott	8346	40	+
Lancaster Co., Dymen Creek		Ott	7593	40	-
Norfolk Co., Chesapeake		L.	8538	40	-
Norfolk Co., Stumpy L.		L.	8540	ns	-
Northampton Co., Cape Charles		Ott	7599a	40	-
Westmoreland Co., Colonial Beach		Ott	7602	40	-
Washington					
Waskiakume Co., Bay Center		Buchanan	8336	ns	-
Wisconsin					
Dodge Co., Alderly		Blum	7994	40	-
Walworth Co., Elkhorn. Pleasant L.		Smith	7827	40	-
Walworth Co., Rice L.		Klötzli	7687	40	+
Walworth Co., Whitewater L.		Klötzli	7692	40	-
Waukesha Co., Mukwonago		Blum	7990	40	-
CENTRAL AMERICA and WEST INDIES					
Dominican Rep.					
Artibonite, Desdunes		Lowden	8421 (3779)	40	-
Dept. du Nord, Etang Romeo		Lowden	8425 (3794)	40	+
Dept. du Nord, Limonade		Lowden	8423 (3803)	40	-
La Altagracia, Miches		Lowden	8279	40	-
Samana, Sanchez		Lowden (Jiménez)	7717	40	+
San Cristobal, Arroyo Madre Vieja		Marcano (Jiménez)	7667	30	+
San Pedro de Macoria, Los Chicharrones		Lowden	8332 (3426)	40	-
Guatemala					
Panajachel, Lago Atitlan		Fruchtenicht (Clark*)	7520 (N273)	30	+
Jamaica					
St. Catherine Par., Ferry R.		Robertson (Adams)	7434	40	+
St. Catherine Par., Fresh R.		Lowden	8633 (3870)	ns	-
Puerto Rico					
-		Daubs (McClure*)	7110 (81)	50 (62)	+
EUROPE					
Austria					
Burgenland, Neusiedlersee		Bolliger	8296	40	-
Oberösterreich, Taufkirchen		Grims	7936	40	+
DDR					
Berlin, Köpenick		Klötzli	7474	40	+
France					
Alsace, Strasbourg		L.	8380	ns	-
Dombes, Versailleux		L.	7808	40	-
Gironde, Bordeaux, Marais de Blanquefort		Simon	8403	40	+
Germany					
Stuttgart, Bärensee		Schäffer	8395	40	-
Hungary					
Balaton, Balatonföldvár		Gigon	8454	40	-
Szolnok, Tiszafüred		Gigon	8351	40	+
Italy					
Piemonte, Lago di Candia		L., U.	7621	40	-

Origin	<i>S. polyrrhiza</i>	collected by (sent by)	ETH No. (orig.No.)	2n	L.
Italy (continued)					
Piemonte, Vercelli		L.	7010	40	-
Toscana, Pisa, San Rossore		L., U.	8270	40	-
Netherlands					
Terschelling, Hoorn		L.	8303	40	-
Utrecht, Culemborg		Florschütz (McClure*)	7124 (108)	40	+
-		Koch	6862	ns	-
Poland					
Białystok, Nowgoród		Klötzli	7401	40	+
Białystok, Stegna		Wołek	8447	40	-
Cieszyn, Wyszni		Wołek	8282	40	-
Kielce, Sandomierz		Klötzli	7404	40	-
Oświęcim, Liciszewy		Wołek	8448	40	+
Oświęcim, Śledna		Wołek	8286	ns	-
Portugal					
Ribatejo, Coruche		Martins	7197	40	+
Romania					
Dobrogea, Maliuc		Klötzli	7414	40	+
Dobrogea, Popina		Klötzli	7418	40	-
Switzerland					
Aargau, Reusstal, Flachwassersee		Grünig	8387	40	-
Jura, Bonfol		L.	7344	40	+
Schaffhausen, Egelsee		Sigg	7327	40	-
Schaffhausen, Egelsee		Koch	6627	ns	-
St. Gallen, Altenrhein		Züst	7588	40	-
St. Gallen, Speck-Staad		Koch	6728	ns	-
Zürich, Hettlingen		Sigg	7349	40	-
Zürich, Kleinandelfingen		L.	7176	40	-
Turkey					
Istanbul, Terkosi Gölü		Aydin	7919	40	+
United Kingdom					
Surrey, Richmond		Heine	7017	40	+
Wales, Cardiff, Wentlooge level		Scotter	7762	40	+
USSR					
Novgorod		Ivanova (Vassilczenko)	7441	40	+
Novgorod		Ivanova (Vassilczenko)	7445	40	-
Yugoslavia					
Croatia, Zagreb, Hort.bot.		Bedalova	7425	40	-
Croatia, Zagreb, Sava R.		Bedalova	7420	40	+
AFRICA					
Burundi					
Bujumbura, Uvira		Lewalle	7235 (4143)	30	+
Egypt					
Beheira, Kafr Dauwâr		Ibrahim (Täckholm)	7399	30	-
Mahallet, El Rahabein		Mahdi (Täckholm)	7373	30	+
Ghana					
Volta Dam, Anyaboni		Agyakwah	7398	40	+
Malawi					
Blantyre, Chilomoni Dam		Reed	7383	30	-
Blantyre, Mkozi		Brummit, Patel (Binns)	7371	30	+
South Africa					
Natal, Richard's Bay, Mzingazi L.		Venter	7364	30	+
Natal, Tongaland, Pongala R.		Wager (Strey)	7296 (59814)	30	+
Tanzania					
Tanga, Pangani		Klötzli	8267	40	+
ASIA					
China					
Kiangsu, Nanking, L. Sans-souci		Herb.coll.	8338	40	+

Origin	<i>S. polyrrhiza</i> , <i>S. punctata</i>	collected by (sent by)	ETH No. (orig.No.)	2n	R.
China (continued)					
Kwangtung, Kanton		Acad.Sin.	8240	40	+
Peking		Tang Yen-chen	7950	40	+
Yunnan, Kun-ming		Burnand	8652	ns	-
India					
Bihar, Patna		Burnand	8442	40	+
Delhi		Malaisse	7481	40	-
Kashmir, Srinagar		Dössegger	8453	40	+
Kashmir, 20 km W of Srinagar		Klötzli	8675	ns	-
Rajasthan, Kota		Mehta	8256	40	+
Rajasthan, Bharatpur		Klötzli	8679	ns	-
Rajasthan, Pushkar		Gopal	8342	40	-
Tamil Nadu, Pondicherry		Thanikaimoni	7379	40	+
Uttar Pradesh, Lucknow		Maheshwari	7381	40	+
West Bengal, Rajnagar		Mitra (Srinivasan)	7212 (980)	40	+
Hong Kong					
New Territories, Shatin		Lau (Deans)	7205	40	+
Indonesia					
Westjava, Bandung, Palasari		Pieterse*	8364	40	+
Japan					
Honshu, Fukushima, Okabe		Kashimura	7813	40	+
Honshu, Tokyo, Adachiku		Otaki (Numata)	7430	40	-
Honshu, Yamanashi, Kofu City		Seido	7385	40	+
Honshu, Yokohama		Obha (Ott)	7838	40	-
Kyushu, Fukuoka, Mizumaki-machi		Okutomi	7181	40	+
Kyushu, Kumamoto, Reihoku-cho, Sniki		Tsuruta (Kikuchi)	7791	40	-
Korea					
Kyonggi, Sosa		Yong No Lee	7682	40	+
Malaysia					
Penang		Chaw	8229	40	+
Selangor, Kuala Lumpur		Abdullah	7222	40	+
Nepal					
Kathmandu		Manandhar (Malla)	7674	40	+
Taiwan					
Kaoshiung Co., Feng-shan		Yang	7723	40	+
Thailand					
Bangkok, Bang Khen		Youngboonkird	7206	40	+
Bangkok, Snake Farm		Landolt-Stadler	8357	40	-
USSR					
Irkutskaya Oblast, Irkutsk		Raspopov	7549	40	+
AUSTRALIA					
Northern Territory					
Roper R., Mataranka		Maconochie	7551	40	+
PACIFIC OCEAN REGION					
Hawaii					
Oahu, Waiahole, Taro		Herbst	7462	40	+
<i>Spirodela punctata</i>					
NORTH AMERICA					
U.S.A.					
California					
Berkeley, University (unknown origin)		Nobs	6631	ns	-
Fresno Co., San Joaquin R.		L., U.	8153	40	-
Florida					
Glades Co., Fisheating Creek		Clark*	7489 (3377)	40	-
Hillsborough Co., McIntosh Road		Clark*	7488 (3368)	50	+
Hillsborough Co., Tampa		Webb	7739	40	-

Origin	<i>S. punctata</i>	collected by (sent by)	ETH No. (orig.No.)	2n	R.
Florida (continued)					
Hillsborough Co., Tampa		Webb	7779	40	-
Marion Co., Salt Springs		Clark*	7486 (3336)	40	-
Okeechobee Co., Kenansville		Clark*	7490 (3455)	40 (41)	-
Orange Co., Orlando		McAlpin (Clark*)	7497 (3526)	40 (41)	-
Polk Co., L. Alfred		Snider (Clark*)	7519 (N271)	43-44	-
Polk Co., Plant City		Clark*	7487 (3366)	40	+
Putman Co., Palatka		Clark*	7485 (3334)	40	-
Suwannee Co., Live Oak		Hume	7822	40	-
Suwannee Co., Live Oak		Hume	7825	40	-
Louisiana					
Ascension Par., Gonzales		Clark*	7503 (3773-P66)	40	-
Ascension Par., Gonzales		Clark*	7504 (3773-P140)	40	+
Calcasieu Par., L. Charles		Thieret (Clark*)	7517 (N265)	50	+
Orleans Par., New Orleans, Mississippi Delta		Hume	7832 (10)	40	-
Orleans Par., W of New Orleans		Youngman (McClure*)	7140 (51)	40	-
Rapides Par., Alexandria		L., U.	8028	40	-
St. James Par., 50 km S of Baton Rouge		Culley	7846	40	-
St. James Par., 50 km S of Baton Rouge		Culley	7854	40	-
St. John the Baptist Par., 40 km NW New Orleans		Hume	7836 (8)	40	-
Massachusetts					
Middlesex Co., Cambridge, unknown origin		Hamner	6725	40	+
Middlesex Co., Cambridge, " "		Thimann (McClure*)	7103 (SOH)	40	-
North Carolina					
Columbus Co., L. Waccamaw		L.	8475	40	+
Dare Co., Nags Head Woods		Beal (McClure*)	7139 (64)	40	+
Durham Co., Rougemont		Ott	7617	40	-
Martin Co., New Bern		Ott	7672	40	-
Northampton Co., Rich Square		L.	8504	ns	-
Vance Co., Henderson		Ott	7618	40	-
South Carolina					
Charleston Co., Bull Island		L.	8469	40	-
Jasper Co., Savannah R.		L.	8460	ns	-
Jasper Co., Savannah R.		L.	8464	40	-
Richland Co., Cedar Creek		L.	8457	40	+
Texas					
San Patricio Co., Sinton		McClure*	7132 (7)	40	+
SOUTH AMERICA					
Brazil					
Guanabara, Horto Botanico		Segadas-Vianna	7226	40	-
Guanabara, Lagoa de Camorẽm		Segadas-Vianna	7253	40	-
Guanabara, Recreio Bandeirantes		Segadas-Vianna	7224	40	-
Sao Paolo		Joly (McClure*)	7111 (70)	40	+
AFRICA					
Canary Islands					
Tenerife, Orotava		Hauser	7536	40	+
Egypt					
Cairo, Giza		Sisi (Täckholm)	7366	40	+
Mauritius					
Barkley Experimental Station		Guého (Julien)	7333 (14017)	40	+
South Africa					
Cape, Grahamstown		Preez (Brink)	7232 (1511)	40	-
Cape, Stellenbosch, Jonkershoek		Kruger (Vos)	7248	40	+
Natal, Mbazwane		Mauve	8248 (4931)	40	+
Natal, Pietermaritzburg		Staden	7272	40	+
Natal, Tongaland, Pongola R.		Wager (Strey)	7297 (59813)	40	-

Origin	<i>S. punctata</i>	collected by (sent by)	ETH No. (orig.No.)	2n	R.
AFRICA (continued)					
Zimbabwe					
Goromonzi, Ruwa R.		Biegel (Müller)	7461	40	+
Salisbury, L. Mc Ilwaine		Faulkener (Müller)	7532	40	-
ASIA					
China					
Szechwan, O'mei, Cheng Du		Burnand	8651	40	+
India					
Delhi		Maheshwari, Sopory	7449	40	+
Indonesia					
Sumatra, Medan		Landolt-Stadler	8354	40	+
Westjava, Bandung, Gunung Wayang		Pieterse*	8365	40	+
Israel					
Tel Aviv (Bot. Garden)		Feinbrun	7624	40	+
Japan					
Honshu, Tokyo, Adachiku		Otaki (Numata)	7429	40	+
Thailand					
Bangkok, Bang Khen		Youngboonkird	7208	40	+
AUSTRALIA					
New South Wales					
Minto		Evans (Mair)	7203 (NSW85469)	50	+
Newcastle, Seaham		Briggs, Johnson (Mair)	7273 (NSW118423)	40	+
Rouse Hill		Evans (Mair)	7202 (NSW102457)	50	-
Sydney (Bot. Garden)		Coveny (Mair)	8225	40	-
Wingham		Brown	7799	40	+
Queensland					
East Haldon, Gatton		Blake	7294 (23159)	50	-
South Australia					
Glencoe West		Wattenwyl	7817	50	+
Mt. Gambier, Caroline Sinkhole		Wattenwyl	7760	40	+
Victoria					
Colac		Aston	7332 (1791)	50	-
Cranbourne, Warneet		Aston	7277 (1779)	50	-
Cranbourne, Warneet		Aston	7278 (1776)	50	-
Echuka, Barmah		Aston	7477 (1803)	50	-
Echuka, Tongala		Aston	7479 (1805)	50	-
Echuka, Tullah Creek		Aston	7478 (1804)	50	+
Gippsland, Sale		Aston	7632 (1815)	50	-
Gippsland, Sale		Aston	7633 (1818)	50	-
Gippsland, L. Wellington		Aston	7634 (1819)	50	-
Gormondale, Merriman Creek		Young (Fryer)	7776	40	+
Melbourne, Botany School		Chambers	7191	50	+
Numurkah		Aston	7603 (1809)	50	+
Numurkah		Aston	7606 (1807)	50	-
Numurkah		Aston	7607 (1808)	50	-
Portland, Tyrendarra		Aston	7260 (1724)	50	+
Shepparton		Aston	7604 (1810)	50	-
Shepparton, Bunbartha		Aston	7475 (1802)	50	-
PACIFIC OCEAN REGION					
New Caledonia					
Bouloupari, Ouameni		Botton	7302	40	-
Bourail, Karagéré		Botton	7322	40	+
New Zealand					
North Canterbury, Leithfield Beach		Mason	7541 (11721)	40	+
North Canterbury, Leithfield Beach		Mason, U.	8646	40	-

Origin	<i>L. trisulca</i>	collected by (sent by)	ETH No. (orig.No.)	2n	R.
LEMNA					
<i>Lemna trisulca</i>					
NORTH AMERICA					
Canada					
British Columbia					
	Westbank, Turtle L.	Stein, Taylor	7794	40	+
Ontario					
	Baptiste Creek	Staniforth (Hume)	7770	80	-
	Fronterac Co., Odessa, Mud L.	Crowder	7875	40	+
	Peel Co., Brampton	Catling, McKay (Goepfert)	7583	80	-
	York Co., Ajax	Sparling (Goepfert)	7579	80	+
	York Co., Whitby Marsh	Goepfert	7573	80	+
U.S.A.					
California					
	Mono Co., West Walk R.	Nobs, Hiesey, L.	6601a (859)	60	-
	San Bernardino Co., Big Bear L.	L., U.	8137	60	+
Colorado					
	Routt Co., Craig	L., U.	8195	40	-
Michigan					
	Iona Co., Belding	McNabb	7745	40	+
	Ottawa Co., Spring L.	McNabb	7906	40	+
Montana					
	Flathead Co., Kalispell, McWenegar Slough	Mooar	7943	40	+
Nebraska					
	Sherman Co., Loup City, Loup R.	Kiener	6722 (29568)	60	+
New Hampshire					
	Strafford Co., Durham, Mill Pond	Hellquist	7957	40	+
New York					
	Clinton Co., Wicklam Marsh	Smith, Rogerson, Dean (Ogden)	7872 (49518)	40	+
Ohio					
	Holmes Co., Killbuck	L.	8571	ns	-
	Licking Co., Buckeye L.	Roberts	7910a	40	+
	Portage Co., Randolph	L.	8590	40	-
Pennsylvania					
	Crawford Co., Conneant L.	Tropea	7928	60	+
South Dakota					
	Lincoln Co., Tea	L., U., Rogers	8205	40	+
	Lincoln Co., Tea	L., U., Rogers	8206	40	-
	Moody Co., Colman	L., U., Rogers	8208	40	-
Utah					
	Duchesne Co., Duchesne	L., U.	8193	40	+
	Wasatch Co., Heber City	L., U.	8191	40	-
Virginia					
	James City Co., Williamsburg	Ott	8348	40	+
Washington					
	Pierce Co., Tacoma	Johnston	7172	60	+
Wisconsin					
	Walworth Co., Elkhorn, Pleasant L.	Smith	7831	40	+
	Walworth Co., Rice L.	Klötzli	7691	ns	-
	Walworth Co., Whitewater L.	Klötzli	7694	60	+
	Waukesha Co., Mukwonago	Blum	7992	80	+
EUROPE					
Austria					
	Oberösterreich, Taufkirchen	Grims	7939	40	+
Denmark					
	Sjælland, Copenhagen, Slangerup	Roth-Meier	8628	40	-
Eire					
	Dublin, Ballsbridge	Scannel	7869	40	+

Origin	<i>L. trisulca</i>	collected by (sent by)	ETH No. (orig.No.)	2n	R.
EUROPE (continued)					
Finland					
Ekenäs, Tammisaari		Luther	7185	40	+
France					
Lorraine, Vigneules		L., U.	7752	40	+
Normandie, Freneuse s/Risle		Mollet	8311	40	+
Seine et Marne, Hermé		Yon	8232	40	+
Germany					
Niedersachsen, Wendland, Dannenberg		Tüxen	7013	40	+
Hungary					
Szolnok, Tiszafüred		Gigon	8353	40	+
Italy					
Toscana, Pisa, San Rossore		L., U.	8271	40	+
Netherlands					
Terschelling, Osten		L.	8307	40	+
Poland					
Białystok, Białowieża		Faliński	7459	ns	-
Białystok, Nowogród		Klötzli	7403	ns	-
Mazury, Chlebowo, Szczecin		Wołek	8449	40	+
Mazury, Kampinos		Klötzli	7801	40	-
Oświęcim, Śledna		Wołek	8288	40	-
Romania					
Bucuresti, Giard.Bot., Lacul Fundeni		Nedelcu	7916	40	-
Dobrogea, Maliuc		Klötzli	7413	40	+
Dobrogea, Maliuc		Klötzli	7417	40	-
Dobrogea, Popina		Klötzli	7418a	40	-
Switzerland					
Schaffhausen, Egelsee		Koch	6624 (556)	40	+
St. Gallen, Altenrhein		Hegi	8397	40	+
Zürich, Kleinandelfingen		L.	7177	40	-
United Kingdom					
England					
Hunts., Sawtry		Horrell	7336	40	+
Hunts., Somerset levels		Haslam	7883	40	-
Hunts., Woodwalton Fen		Haslam	7759	40 (42)	-
Shropshire, Whixhall		Haslam	7812	40	-
USSR					
Nowgorod		Ivanova (Vassilczenko)	7443	40	+
Vologda, Kubena		Raspopov	7677	40	-
Yugoslavia					
Croatia, Zagreb, Sava R.		Bedalowa	7424	40	-
AFRICA					
Kenya					
Rift Valley, L. Naivasha		Leuthold	7615	40	+
Morocco					
Larache, Boucharen		Mathez	7649	40	+
Uganda					
Kigezi, Kabale		Denny	7192	40	+
ASIA					
Japan					
Hokkaido, Kushiro		Otaki (Numata)	7431	40	+
AUSTRALIA					
New South Wales					
Ebor Falls		Coveny	8226 (5292)	ns	-
Tasmania					
Lewisham		Morris (Curtis)	7282	40	-

Origin	<i>L. perpusilla</i> <i>L. aequinoctialis</i>	collected by (sent by)	ETH No. (orig.No.)	2n	R.
AUSTRALIA (continued)					
Victoria					
Ballarat, L. Wendouree		Aston	7315 (1780)	40	+
Colac		Aston	7331 (1792)	40	+
Tyrendarra		Aston	7258 (1775)	20	+
<i>Lemna perpusilla</i>					
NORTH AMERICA					
U.S.A.					
Arkansas					
Clark Co., Arkadelphia		L., U.	8017	40	+
New Jersey					
Mercer Co., Princetown		L.	8612	40	+
Mercer Co., Princetown		L.	8608	40	-
North Carolina					
Currituck Co., Gregory		L.	8533	ns	-
Durham Co., Durham		L.	8498	40	-
Gates Co., Gatesville		L.	8507	40	-
Johnston Co., Gees Cross Road		L.	8473	40	+
Orange Co., Chapel Hill		Clark*	7507 (3902)	40	+
Perquimans Co., Belvidere		L.	8508	40	-
Virginia					
Norfolk Co., Chesapeake		L.	8539	40	+
Norfolk Co., Virginia Beach		L.	8541	ns	-
<i>Lemna aequinoctialis</i>					
NORTH AMERICA					
Mexico					
Veracruz, Veracruz		Gigon	7656	40	-
U.S.A.					
Alabama					
Madison Co., Indian Creek		Stanley	7977	ns	-
Arizona					
Santa Cruz Co., Patagonia		L., U.	8120	40	+
Santa Cruz Co., Patagonia L.		L., U.	8121	40	-
Santa Cruz Co., Patagonia L.		L., U.	8123	40	-
Arkansas					
Clark Co., Gourdon		L., U.	8023	40	-
California					
Fresno Co., Centerville		Nobs, Hiesey, L.	6612 (872)	40	+
Fresno Co., Firebaugh		L., U.	8158	40	-
Fresno Co., Firebaugh		L., U.	8159	40	-
Fresno Co., Mendota Pool		Nobs, Hiesey, L.	6609 (869)	40	+
Madera Co., Madera		L., U.	8157	40	-
Merced Co., Plainsburg		L.	6746	80	+
Merced Co., Plainsburg		L., U.	8160	80	-
Merced Co., Snelling		L., U.	8161	40	-
Merced Co., Snelling		L., U.	8162	40	-
San Joaquin Co., Farmington		L., U.	8167	40	-
San Joaquin Co., Stockton		Gigon	7558	80	+
Santa Cruz Co., L. Tynan		L.	6748	ns	-
Florida					
Taylor Co., Eridu		Alston (McClure*)	7122 (27)	40	+
Georgia					
Echols Co., Statenville		McClure*	7170 (28)	40	+
Kansas					
Harper Co., Anthony		L., U.	8008	40	-

Origin	<i>L. aequinoctialis</i>	collected by (sent by)	ETH No. (orig.No.	2n	R.
U.S.A. (continued)					
Kentucky					
Trigg Co., Hematite L.		Stanley	7959a	ns	-
Louisiana					
Acadia Par., Crowley		L., U.	8038	40	-
Vermilion Par., Kaplan		L., U.	8039	40	-
North Carolina					
Camden Co., Pasquotank R.		L.	8501	40	-
Columbus Co., L. Waccamaw		L.	8476	40	+
Dare Co., Kill Devil Hills		L.	8495	ns	-
Jones Co., Trenton		Clark*	7495 (3510-P54)	40	-
Jones Co., Trenton		Clark*	7496 (3510-P55)	40	-
Northampton Co., Rich Square		L.	8505	40	-
Pasquotank Co., Halls Creek		L.	8510	40	-
Pasquotank Co., Weeksville		L.	8512	40	-
Pasquotank Co., Weeksville		L.	8514	ns	-
Pasquotank Co., Weeksville		L.	8519	40	-
Pender Co., Black R.		L.	8477	40	-
Wilson Co., Wilson		L.	8502	40	-
Oklahoma					
Kay Co., Blackwell		L., U.	8011	80	+
Kay Co., Braman		L., U.	8010	40	-
Noble Co., L. McMurtry		Toetz	8234	40	-
Payne Co., L. Carl Blackwell		Toetz	8224	40	+
Sesquoyah Co., Forth Smith		L., U.	8015	40	-
Tulsa Co., S. Sperry		L., U.	8014	40	-
South Carolina					
Darlington Co., I. Darlington		L.	8470	40	-
Jasper Co., Savannah R.		L.	8461	40	-
Jasper Co., Savannah R.		L.	8465	ns	-
Sumter Co., Sumter		L.	7006	40	+
Tennessee					
Obion Co., Reelfoot L.		Stanley	7962	ns	-
Texas					
Atascosa Co., Campbellton		L., U.	8114	40	-
Bexar Co., San Antonio		L., U.	8091	40	-
Brazoria Co., Old Ocean		L., U.	8063	40	-
Brooks Co., Falfurrias		L., U.	8112	40 (50)	-
Brooks Co., Falfurrias		L., U.	8113	40	-
Chambers Co., Anahuac		L., U.	8059	40	-
De Witt Co., Cuero		L., U.	8081	60	-
Gonzales Co., Gonzales		L., U.	8082	60	-
Gonzales Co., Nixon		L., U.	8086	40	-
Gonzales Co., Nixon		L., U.	8089	40	-
Gonzales Co., Palmetto State Park		L., U.	8093	40 (~50)	-
Hays Co., College Station		Hume	7839	40	-
Hays Co., San Marcos		Bruchmiller (Hannan)	7775	40	-
Hays Co., San Marcos		L., U.	8099	50 (~80)	-
Hidalgo Co., San Manual		L., U.	8110	40	+
Houston Co., Liberty		L.	7001	40	+
Matagorda Co., Cedar Lane		L., U.	8068	40	-
Matagorda Co., Cedar Lane		L., U.	8074	40	-
Travis Co., Austin (University pond)		McClure*	7126 (40)	60 (61)	+
Victoria Co., Placedo		L., U.	8079	60	-
Webb Co., Laredo		L., U.	8102	40	-
Willacy Co., Raymondville		L., U.	8103	40	-
Willacy Co., Raymondville		L., U.	8105	40	-
Willacy Co., Raymondville		L., U.	8106	40	-
Wilson Co., Floresville		L., U.	8090	40	-

Origin	<i>L. aequinoctialis</i>	collected by (sent by)	ETH No. (orig.No.)	2n	R.
U.S.A. (continued)					
Virginia					
Norfolk Co., Stumpy L.	L.		8542	ns	-
Norfolk Co., Virginia Beach, Sea Side State Park,	Ott		7594	40	+
CENTRAL AMERICA and WEST INDIES					
Cuba					
Prov. Oriente, Guantanamo	Zarzycki		8281	40	+
Dominican Rep.					
Dajabón, Restauración	Cicero (Jiménez)		7711	40	+
Dépt. de l'Ouest, Etang Boissier	Lowden		8419 (3730)	40	+
Dépt. du Nord, Etang Roméo	Lowden		8426 (3796)	40	+
Distr. Nacional, Santiago, Isa	Lowden		8322 (3398)	40	-
Distr. Nacional, Santiago, La Herradura	Jiménez		8313	40	-
Distr. National, Guerra	Lowden		8665	ns	-
El Seibo, Horto Mayor	Lowden		8335	40	-
La Altagracia, Bejucal	Lowden		8275 (3348)	40	-
La Estrelleta, El Llano	Lowden		8386 (3542)	40	-
Monte Cristi, Juan Gomez	Jiménez		8255	40	+
Monte Cristi, Laguna Saladella	Lowden		8318 (3402B)	40	-
Puerto Plata, Estero Hondo	Lowden		8316 (3407)	40	-
Puerto Plata, Estero Hondo	Lowden		8320 (3415)	40	-
Puerto Plata, La Cienaya	Marcano, Cicero, Jiménez		7666	40	+
San Pedro de Macoria, Guerrero	Lowden		8276 (3350)	40	-
San Pedro de Macoria, Los Chicarrones	Lowden		8333 (3426)	40	-
San Pedro de Macoria, Ramon Santana	Lowden		8278 (3364)	40	-
Guatemala					
Quezaltenango	Nelson (McClure*)		7157 (107)	40	+
Jamaica					
St. Andrew Par., Duhaney Bridge	Lowden		8632 (3868)	40	+
St. Catherine Par., Ferry R.	Robertson		7435	40	+
St. Catherine Par., Fresh R.	Lowden		8633a (3871)	ns	-
St. Catherine Par., Spanish Town	Lowden		8631 (3873)	40	+
Panama					
San Antonio, R. Juan Diaz	Klötzli		8412	40	+
SOUTH AMERICA					
Argentina					
Salta, Hickmann	Pedersen		8656	ns	+
Brazil					
Amazonas, Manaus, Parana-Channel	Mitchell (Cook)		7293	40	+
Espirito Santo, Heliofila	Sucre (Reitz)		7608	40	+
Pernambuco, Recife	Mariz		7671 (718)	40	+
Pernambuco, Tapera	Mariz		8401	40	-
Colombia					
Atlantico, Barranquilla	Dugand		7469 (7335)	40	+
Atlantico, Malambo	Dugand		7457 (7331)	40	+
Guyane Française					
Cayenne, Ile Royale	Oldeman		7412 (3156)	40	+
Cayenne, Pointe Macouria	Oldeman		8413	40	-
Surinam					
Paramaribo, Zypad	Cramer		8260	40	-
Trinidad					
Port of Spain	Mitchell (Cook)		7287	40	+
Venezuela					
Aragua, Maracay	Cardénas		7304 (1216)	40	+
Lara, Barquisimeto, Carrizal	Tillet		7395 (707-49)	40	-
Lara El Paso	Tillet		7396 (707-50)	ns	-
Portuguesa, Piritu	Tillet		7380 (707-48)	40	+

Origin	<i>L. aequinoctialis</i>	collected by (sent by)	ETH No. (orig.No.)	2n	R.
EUROPE					
France					
Provence, Arles		L.	7806	40	+
Italy					
Lombardia, Pavia		L., Lüönd	8642	40	+
Piemonte, Vercelli		L., Lüönd	8641	40 (~43)	+
AFRICA					
Angola					
Benguela, Cubal		Azancot de Menezes	7643	40	+
Luanda, Icolo e Bengo		Azancot de Menezes	7409	40	+
Botswana					
Nyamiland, Sepopa		Müller	8367	40	+
Nyamiland, Shakawe		Müller	8369	40	+
Burundi					
Bujumbura, Bubanza		Lewallee	7339(4650)	40	+
Bujumbura, Uvira		Lewallee	7236(4144)	40	+
Congo					
Brazzaville, Djoumouna		Hallé	7368	40	-
Ghana					
Kumasi		Akpabla	7255	40	+
Legon		Agyakwah	7324	40	+
Ivory Coast					
Afféry		Assi	7216	40	+
Sassandra, Niounourou		Rham	7338	40	+
Kenya					
Thika near Nairobi, Athi R		Leuthold	8253	40	-
Tsavo West, Mzima Springs		Slowik	7256	40	+
Tsavo West, Mzima Springs		L.	8432	40	-
Madagascar					
Tananarive, Tsimbazaza		Morat	7743	40	+
Malawi					
Blantyre, Chilomoni Dam		Reed	7382	20	+
Namibia					
Windhoek, Daam Viljoen Park		Giess	7321(10891)	40	+
Nigeria					
Ibadan, University College		Hopkins (McClure*)	7130(77)	40	+
Senegal					
Dakar		Sanokho (Cook)	8650	ns	+
Tanzania					
Arusha, Amboseli		Klötzli	8638	40(46)	+
Iringa, Mesangati		Greenway, Kanuri	7341(14504)	40	-
Iringa, Ruaha Nat. Park, Msembe		Greenway, Kanuri	7338(14461)	40	+
Moshi, Boma Ngombe		Kundeli	7557(4156)	40	+
Tanga, Bagamoyo, Mkwaja Ranch		Klötzli	8377	40	-
Tanga, Bagamoyo, Mkwaja Ranch		Klötzli	8379	40(36)	+
Tanga, Pangani		Klötzli	8268	40	-
Zaire					
Katanga, Lumumbashi		Malaisse	7482(6843)	40	+
Zimbabwe					
Gwanda, Tsibizini R.		Pope	7629	40	+
Nuanetsi, Manjinji Pan		Taylor (Biegel)	7523(176)	40	+
ASIA					
China					
Kwangsi, Kuei-lin		Burnand	8654	ns	+
Kwangtung, Canton, L. Sans-Soucis		Acad.Sin.	8241	40	+
Kwangtung, Canton, L. Sans-Soucis		Acad.Sin.	8242	40	-
Kiangsu, Nanking		Herb. coll.	8340	40	+
Hong Kong					
Shatin, New Territories		Lau (Deans)	7204	50	+

Origin	<i>L. aequinoctialis</i>	collected by (sent by)	ETH No. (orig. No.)	2n	R.
ASIA (continued)					
India					
Bihar, Patna		Burnand	8443	40	+
Delhi, New Delhi		Maheshwari (Hillmann)	7152 (LPM)	40	+
Gujarat, Kadi		Yogi	7685	40	-
Gujarat, Kadi		Yogi	7237	40	+
Gujarat, Khaira, Anand		Yogi	7704	40	-
Maharashtra, Wardha		Gadekar	8349	40	+
Rajasthan, Kota		Mehta	8257	40	-
Rajasthan, Bharatpur		Klötzli	8677	ns	-
Rajasthan, Bharatpur		Klötzli	8681	ns	-
Tamil Nadu, Madras, Sriperampadur		Nataratjan	7300	40	+
Tamil Nadu, Pondicherry		Thanikaimoni	7410	ns	-
Uttar Pradesh, Dehra Dun		Pant (Rau)	7242	40	+
Uttar Pradesh, Lucknow		Maheshwari	7318	40	-
West Bengal, Howrah, Sakrail		Banerjee	7271	ns	-
West Bengal, Rajnagar		Mitra (Srinivasan)	7213 (979)	40	+
Indonesia					
Bali, Bukit Djambul		Fossati	8374	50	+
Java, Bandung		Pieterse*	8363	40	+
Java, Bandung		Pieterse	8366	40	-
Java, Jalan Gero		Pieterse*	8362	40	-
Java, Kedung Gede		Pieterse*	8361	40	-
Java, Subang		Pieterse*	8360	40	-
Sumatra, Medan		Landolt-Stadler	8355	40	+
Japan					
Honshu, Fukushima, Okabe		Kashimura	7814	50	+
Honshu, Nagoya University		Otaki (Numata)	7433	ns	-
Honshu, Yamanashi, Kofu City		Seido	7384	50	+
Honshu, Yamanashi, Kofu City		Seido	7386	50	-
Kyushu, Kumamoto, Reihoku-cho, Shiki		Tsuruta (Kikuchi)	7792	40	+
Malaysia					
Kuala Lumpur, Batu Caver		Fossati	8376	40 (~ 44)	+
Kuala Lumpur, University		Ratnasabopathy	8394	40	+
Penang		Chaw	8230	40	+
Penang		Chaw	8244	40 (~ 50)	-
Selangor, Balakong Village		Abdullah	7221	40	+
Nepal					
Kathmandu		Manandhar (Malla)	7675	ns	-
Trisuli		Burnand	8444	40	+
Singapore					
North Buoa Vista Road		Sidek bin Kiah	7199	50	+
Sri Lanka					
Colombo, Panumugama		Schmid	7645	40	+
North-Central, Anuradhapura		Sigg	8407	40	+
Taiwan					
Kaohsiung Co., Feng-Shan		Yang	7721	40	+
Kaohsiung Co., Feng-Shan		Yang	7722	40	-
Thailand					
Bangkok, Bang Khen		Youngboonkird	7209	40	+
Bangkok, Snake Farm		Landolt-Stadler	8358	40	+
Chiang Mai		Anusarnsunthorn (Cheke)	7665	ns	-
AUSTRALIA					
Queensland, Townsville		Macfarlaw (Thomas)	7737	40	+
PACIFIC OCEAN REGION					
Hawaii					
Oahu, Manoa Valley		Herbst	7328	ns	-
Oahu, Pearl City		Herbst	7472	40	+

Origin	<i>L. aequinoctialis</i> <i>L. turionifera</i>	collected by (sent by)	ETH No. (orig.No.)	2n	R.
PACIFIC OCEAN REGION (continued)					
New Guinea					
Bulolo, Manki Dioda		Horak	7610	40	+
<i>Lemna turionifera</i>					
NORTH AMERICA					
Canada					
British Columbia					
Okanagan L.		Newroth	8214	40	-
Saanich, Swan L.		Buchanan	7728	40	+
Thrums		Buchanan	7887	40	+
Westbank, Turtle L.		Stein, Taylor	7793	40	-
Manitoba					
L. Manitoba		Löve	6853	40	+
Saskatchewan					
Saskatoon		Klötzli	7686	40	+
U.S.A.					
Alabama					
Jackson Co., Guntersville		Stanley	7980	40	+
California					
Kern Co., Highway 466		L.	6727	42	+
Los Angeles Co., Malibu L.		L., U.	8136	40	-
Madera Co., Averill Ranch		Nobs, Hiesey, L.	6619(879)	42	+
Mono Co., Sonora Pass, 2050 m		Nobs, Hiesey, L.	6601(858)	40	+
San Bernardino Co., Big Bear L.		L., U.	8138	40	-
San Diego Co., Wohlford L.		L., U.	8133	40(~60)	+
San Joaquin Co., Farmington		L., U.	8166	40,38	-
San Joaquin Co., Lakeford		L., U.	8181	40	-
San Joaquin Co., Lakeford		L., U.	8182	40	-
San Luis Obispo Co., Oso Flaco L.		Gigon	7670	40	+
San Luis Obispo Co., Oso Flaco L.		L., U.	8145	40	-
Santa Cruz Co., L. Thynan		Gigon	7627	40	-
Santa Cruz Co., L. Thynan		L., U.	8179	40(~50)	-
Colorado					
Boulder Co., Boulder		L., U.	8002	40	-
Boulder Co., Highway 36		L., U.	8001	40	-
Grand Co., Grand L.		Douglas(McClure*)	7131(41)	40	+
Grand Co., Grand L. 2550 m		L., U.	8000	40	+
Jackson Co., Cowdry L.		L., U.	8199	40	-
Routt Co., Craig		L., U.	8196	40,36	-
Routt Co., Steamboat Springs		L., U.	8198	40	-
Indiana					
Putman Co., Greencastle		Welch	7352(21534)	40	+
Iowa					
Dickinson Co., Emerson Bay		Hulbarry	7390	42	-
Dickinson Co., West Lake Okoboji		Hulbarry	7387	42	+
Michigan					
Ionia Co., Belding		McNabb	7744	42	-
Ottawa Co., Spring L.		McNabb	7908a	40	+
Montana					
Lincoln Co., Highway 2		Hiesey	6573	40	+
Nevada					
Elko Co., Elko		L., U.	8190	40,36	-
Washoe Co., Wadsworth		L., U.	8189	40	-
Washoe Co., Washoe City		L., U.	8186	40	-
Washoe Co., Washoe City		L., U.	8187	40	-
Oklahoma					
Kay Co., Ponca City		L., U.	8012	40	-

Origin	<i>L. turionifera</i> <i>L. gibba</i>	collected by (sent by)	ETH No. (orig.No.)	2n	R.
Oklahoma (continued)					
Noble Co., L. Mc. Murtry		Toetz	8233	40	-
Payne Co., L. Carl Blackwell		Toetz	8223	40	-
Oregon					
Klamath Co., Lower Klamath Wildlife Refuge		Smith(Mc.Clure*)	7138(47)	40	-
Umatilla Co., Umatilla		L.	6734	42	+
South Dakota					
Clay Co., Vermillion		McNaughton(McClure*)	7137(38)	40	+
Lincoln Co., Tea		L., U., Rogers	8203	40	+
Texas					
Hays Co., San Marcos		L., U.	8095	40	-
Hays Co., San Marcos		L., U.	8098	50	-
Kerr Co., Hills Inland Fisheries Res.Stat.		L., U.	8117	40	+
Utah					
Duchesne Co., Duchesne		L., U.	8194	40	+
Wasatch Co., Heber City		L., U.	8192	40	-
Washington					
Columbia Co., Dayton		L.	6736	42	-
Columbia Co., Walla Walla, Touchet		L.	6735	80	+
Pierce Co., Tacoma		Johnston	7171	42	-
Wisconsin					
Walworth Co., Elkhorn, Pleasant L.		Smith	7828	40	-
Walworth Co., Whitewater L.		Klötzli	7693	42	-
Wyoming					
Carbon Co., Elk Hollow		L., U.	8201	40	-
Carbon Co., Riverside		L., U.	8200	40	-
ASIA					
USSR					
Irkutskava Oblast, Irkutsk		Raspopov	7550	40	+
<i>Lemna gibba</i>					
NORTH AMERICA					
Mexico					
Mexico, La Barca, Chapala L.		Gigon	7648	ns	-
Mexico, Mexico City		Seidl	8415	40	-
Mexico, Mixquic		Pineda(Rzedowski)	7305(1001)	40	-
Mexico, Mixquic		Pineda(Rzedowski)	7309(1002)	40	-
Mexico, Mixquic		Pineda(Rzedowski)	7312(1003)	40	-
Mexico, Xochimilco		Helia Bravo	7239	40	-
Mexico, Xochimilco		Helia Bravo	7240	40	+
Mexico, Xochimilco		Helia Bravo	7241	40	-
Mexico, 20 km N of Mexico City		Gigon	7647	40	+
Queretaro, San Pablo		Gigon	7661	40	+
U.S.A.					
Arizona					
Pima Co., Arivaca		L., U.	8122	40	-
Pima Co., Aricava		L., U.	8125	40	-
Santa Cruz Co., Patagonia L.		L., U.	8122	40	-
California					
Alameda Co., Niles Canyon		Hiesey, Nobs, L.	6585	ns	-
Los Angeles Co., Covina		Gigon	7589	40	+
Merced Co., Los Banos		L.	6729	40	+
Merced Co., Pacheco Pass		Hiesey, Nobs, L.	6602(862)	50	+
Monterey Co., Watsonville		L.	6751	50	+
Monterey Co., Watsonville		Gigon	7625	50	-
San Diego Co., Campo		L., U.	8126	40	-
San Diego Co., Highway S11/S12		L., U.	8132	40	-
San Diego Co., Otay		L., U.	8128	40	+

Origin	<i>L. gibba</i>	collected by (sent by)	ETH No. (orig.No.)	2n	R.
California (continued)					
San Diego Co., Solana Beach		L., U.	8130	40	-
San Joaquin Co., Stockton		L., U.	8169	40,46-48	-
San Joaquin Co., Victoria Island		L., U.	8171	40,48-50	-
San Luis Obispo Co., Grover City		L., U.	8146	40	-
San Luis Obispo Co., Los Osos		L., U.	8149	40	-
San Luis Obispo Co., Los Osos		L., U.	8150	40,50	-
San Luis Obispo Co., Oso Flaco L.		Gigon	7545	40	+
San Luis Obispo Co., Oso Flaco L.		L., U.	8144	40	-
San Luis Obispo Co., Pismo Beach		Stebbins	6566	40	+
San Luis Obispo Co., Pismo Beach		L., U.	8148	40,50	-
San Mateo Co., San Gregorio		Nobs, Hiesey, L.	6583 (835)	50	+
Santa Barbara Co., Vandenberg AFB		L., U.	8140	40	-
Santa Barbara Co., Vandenberg AFB		L., U.	8142	40	-
Santa Cruz Co., Kelley L.		L., U.	8173	40	-
Santa Cruz Co., L. Thynan		Gigon	7529	40	+
Santa Cruz Co., L. Thynan		L., U.	8177	40	-
Sonoma Co., Valley Ford		Gigon	7552	40	-
Tuolumne Co., Jacksonville		L.	6745	50	+
Nevada					
Washoe Co., Wadsworth		L., U.	8188	40	-
SOUTH AMERICA					
Argentina					
Buenos Aires, Arroyo Burgueno		Leon	7200	50	-
Buenos Aires, Arroyo Vitel, Chascomas		Tur	7922	50	+
Buenos Aires, Arroyo Vitel, Chascomas		Tur	7922a	40	+
Buenos Aires, Buenos Aires		Leon	7179	50	+
Cordoba, Saldan		Ariza	7184 (2371)	50	+
Cordoba, Rio Cuarto, Gigena-Elena		Pedersen	8655	ns	+
Bolivia					
Oruro, Sajama, 4300 m		Klein	8667	ns	-
Oruro, Sajama, 4300 m		Klein	8671	ns	-
Chile					
Santiago, Maipú		Kummerow	7261	40	-
Santiago, Maipú		Kummerow	7262	40	+
Peru					
Cuzco, San Geronimo, 3500 m		Landolt-Stadler	7611	40	+
Lima, Laguna de Villa		Fernandez (Mendiola)	7798	40	+
Puno, Titicaca L., 3800 m		Landolt-Stadler	7613	40	+
Puno, Titicaca L., 3800 m		Bolliger	8445	ns	-
EUROPE					
Austria					
Oberösterreich, Taufkirchen		Grims	7937	40	+
Oberösterreich, Taufkirchen		Grims	7938	40	-
Belgium					
Liège, Terwagne		L., U.	7749a	40	+
Eire					
Carlow Co., Barrow R.		Booth (Scannell)	7932	40	+
France					
Alsace, Herrlisheim		L., Engetschwiler	7841	40	-
Alsace, Strasbourg		L.	8381	40	+
Camargue, La Tour du Valat		L.	7805	40	+
Dombes, Versailleux		L.	7810	40	+
Gironde, Bordeaux, Marais de Blanquefort		Simon	8405	40	+
Northern France		Schotsman	8399	40	-
Poitiers, Sèvres Anxaumont		Mathon	8246	40	+
Provence, Arles		L.	7807	ns	-

Origin	<i>L. gibba</i>	collected by (sent by)	ETH No. (orig.No.)	2n	R.
EUROPE (continued)					
Germany					
Berlin, Schildow		Kandeler* (McClure)	7107 (G1)	40	+
Berlin, Schildow		Kandeler*	7740 (G1)	40	-
Greece					
Thessalia, Trikala		Dafis	7263	40	+
Italy					
Lombardia, Pavia		L., U.	8273	40	+
Piemonte, Vercelli		L.	7007	50	-
Sicilia, Catania, Bot.Garden		Appel (Kandeler*)	7742 (G3)	40	-
Sicilia, Siracusa		Appel (Kandeler*)	7741 (G2)	40	+
Toscana, Grosseto, Castiglione della Pescaia		L., Engetschwiler	7679	40	+
Toscana, Massarosa		L., Engetschwiler	7680	40	-
Toscana, Lago di Massaciuccoli		Sulger Büel	6861	40	+
Netherlands					
Terschelling, Hoorn		L.	8304	40	-
Utrecht, Culemborg		Florschütz (McClure*)	7135 (109)	50	+
Portugal					
Ribatejo, Coruche		Martins	7187	40	-
Ribatejo, Montalvo		Martins	7198	40	+
Romania					
Dobrogea, Maliuc		Klötzli	7415	40	+
Spain					
Andalusia, Cordoba		L.	7021	40	+
Islas Baleares, Mallorca, Puerto Pollensa		Schotsman	8418	40	+
Valencia, El Saler		Züst	7534	40	-
Switzerland					
Aargau, Koblenz		L., Lüönd	8428	40	+
Turkey					
Tekirdag, Sazlidere		Bulut (Aydin)	7636	40	+
United Kingdom					
England					
Cambridge and Isle of Ely, Cambridge Campus		L.	8429	40	+
Dorset, East Stoke		Haslam	7914	40	-
Hunts., Woodwalton Fen		Haslam	7757	ns	-
Hunts., Somerset levels		Haslam	7881	40	+
Suffolk, Sapiston		Haslam	7902	40	-
Wales					
Cardiff, Wentlooge level		Scotter	8429	40	+
USSR					
Moldaviya S.S.R., Kischinow		Raspopov	7533	40	+
Yugoslavia					
Croatia, Zagreb, Bot.Garden		Bedalova	7422	40	-
AFRICA					
Canary Islands					
Gran Canaria, Las Lagunetas		Schotsman	8266	40	-
Tenerife, Puerto de la Cruz		Hauser	7537	40	+
Egypt					
Beheira, Kafr Dauwār		Ibrahim (Täckholm)	7400	40	-
Hafr Shoukr, Naim		Mahdi (Täckholm)	7377	40	+
Kairo, Garden Dokki		Sáad	7320	40	+
Kairo, Giza		Sisi (Täckholm)	7367	40	-
Kairo, Sandhanhur		Mahdi (Täckholm)	7372	40	-
Mahallet, El Rahabein		Mahdi (Täckholm)	7374	40	+
Mahallet, El Rahabein		Mahdi (Täckholm)	7375	40	-
Ethiopia					
Shoa, 30 km E of Addis Abeba		Klötzli	7784	40	+

Origin	<i>L. gibba</i> <i>L. disperma</i>	collected by (sent by)	ETH-No. (orig.No.)	ns	R.
AFRICA (continued)					
Kenya					
Mt. Kenya, Nyeri, 2500 m		Leuthold	7639	40	-
Nairobi, Kibwezi		Bramblett (McClure*)	7127(89)	40	+
Tsavo East		Leuthold	7257	40	+
Tsavo West, Mzima Springs		L.	8431	40(~45)	-
Morocco					
Rabat-Casablanca, Qued Cherrat		Lewalle	8384	40	+
South Africa					
Cape, Grahamstown, Great Fisher R.		Preez (Brink)	7219	80	-
Cape, Grahamstown, Koonap R.		Preez (Brink)	7218(3326)	80	+
Cape, Stellenbosch, Jonkershoek		Kruger (Vos)	7245	70	+
Cape, Stellenbosch, Kuilsriver		Oliver (Vos)	7249	70	-
Transvaal, Pretoria, Daspoort		Steijn	7734	80-81	-
Transvaal, Pretoria, Rooiwal		Steijn	7735	80	-
Tanzania					
Arusha, Amboseli		Klötzli	8637	40	+
ASIA					
India					
Gujarat, Khaira, Anand		Yogi	7705	40	+
Kashmir, Srinagar		Klötzli	8678	ns	+
Iran					
Mazandaran, Ramsar, Ghassem Abbath		Landolt-Stadler	8291	40	-
Israel					
Golan, Birket Ram		Lipkin (Feinbrun)	7642	40	-
Hadera, Birket Batih		Lipkin (Feinbrun)	7641	40	+
Saudi-Arabia					
Asir, Baha, 2020 m		Büttiker	8682	ns	+
<i>Lemna disperma</i>					
AUSTRALIA					
Canberra					
Murray's Dairy		Stein	7223	40	+
South Australia					
Glecoe West		Wattenwyl	7818	40	-
Mt. Gambier		Wattenwyl	7842	40	+
"Native Wells"		Wattenwyl	7816a	40	+
"Native Wells"		Wattenwyl	7816b	40	-
Piccaninie Pond		Wattenwyl	7761	40	+
Tasmania					
Lewisham		Morris (Curtis)	7268	40	+
Lewisham		Morris (Curtis)	7281	40	-
Pittswater Estate		Turnbull	7782	40	-
Sorell		Morris (Curtis)	7269	40	+
Sorell		Morris (Curtis)	7301	40	-
Victoria					
Ballarat, L. Wendouree		Aston	7316	40	-
Ballarat, Skipton		Aston	7259(1772)	40	+
Gormanale, Merriman Creek		Young (Fryer)	7777	40	+
Melbourne, Altona		Sonnenberg	7190	40	+
Melbourne, Warneet		Aston	7276(1778)	40	+
Western Australia					
SW, King P.		Darling	7767	40	+

Origin	<i>L. obscura</i>	collected by (sent by)	ETH-No. (orig.No.)	ns	R.
<i>Lemna obscura</i>					
NORTH AMERICA					
U.S.A.					
Florida					
Broward Co., New North River Canal		Clark*	7491 (3463)	40	-
Charlotte Co., Englewood		McClure*	7145 (100)	40	-
Dade Co., Miami		McClure*	7143 (91)	40	+
Hillsborough Co., Tampa		Webb	7780	40	+
Sarasota Co., Englewood		Daubs (McClure*)	7144 (99)	40	+
Illinois					
Hancock Co., Nauwoo		Henry	7982	40	+
Hancock Co., Warsaw		Henry	7984	40	-
Louisiana					
Cameron Par., Johnsons Bayou		L., U.	8058	40	-
East Baton Rouge Par., L.S.U.		Culley	7850	40	-
East Baton Rouge Par., L.S.U.		Culley	7856	40	+
Orleans Par., Morco		McClure*	7133 (97)	40	+
Rapides Par., Alexandria		L., U.	8036	40	+
Vermilion Par., Pecan Island		L., U.	8044	40	-
Vermilion Par., Pecan Island		L., U.	8052	40, ~39	-
Vermilion Par., Pecan Island		L., U.	8053	40	-
North Carolina					
Camden Co., Belcross		L.	8518	40 (42)	-
Camden Co., Belcross		L.	8523	ns	-
Currituck Co., Waterlily		L.	8535	40	-
Currituck Co., Waterlily		L.	8537	ns	-
Dare Co., Nags Head woods		L.	8481	ns	-
Dare Co., Nags Head woods		L.	8484	40	-
Dare Co., Nags Head woods		L.	8489	ns	-
South Carolina					
Beaufort Co., Hunting Island		L.	8468	40	-
Tennessee					
Davidson Co., Nashville		Stanley	8227	40	+
Davidson Co., Nashville Airport		Stanley	7980a	ns	-
Obion Co., Reelfoot L.		Stanley	7961	40	+
Texas					
Brazoria Co., Old Ocean		L., U.	8064	40	-
Gonzales Co., Wood L.		L., U.	8084	40	-
Harris Co., Highway 6		Alston (McClure*)	7134 (74)	40	+
Hidalgo Co., San Manuel		L., U.	8111	40	-
Matagorda Co., Cedar Lane		L., U.	8076	50	-
Willacy Co., Raymondsville		L., U.	8107	40, ~50	+
Wilson Co., Floresville		L., U.	8092	40	-
Virginia					
Accomack Co., Chincoteague		Ott	7720	40	+
Frederick Co., Winchester		Ott	8345	40	-
Northampton Co., Capes Charles		Ott	7599	40	+
PACIFIC OCEAN REGION					
Hawaii					
Oahu, Pearl City		Herbst	7325	40	+
Oahu, Pearl City		Herbst	7471	40	-

Origin	<i>L. japonica</i> <i>L. minor</i>	collected by (sent by)	ETH-No. (orig.No.)	2n	R.
<i>Lemna japonica</i>					
ASIA					
China					
Kiangsu, Nanking		Herb.coll.	8339	40	+
Peking		Tang Yen-chen	7951	40	+
Yunnan, Kun-ming		Burnand	8653	ns	+
Japan					
Honshu, Tokyo, Adachiku		Otaki (Numata)	7427	40	+
Honshu, Nagoya Univ.		Otaki (Numata)	7432	40	+
Kyushu, Fukuoka, Mizumaki-machi		Okutomi	7182	50	+
Korea					
Kyonggi Prov., Sosa		Yong No Lee	7683	40	+
<i>Lemna minor</i>					
NORTH AMERICA					
Canada					
British Columbia					
Confluence, Palmer Creek		Buchanan	8215	40	-
Saanich, Elk L.		Baillie (Buchanan)	7730	30	+
Vancouver		Stein (Perry*)	7165 (34-62)	40	+
Ontario					
Bridgenorth		Giles	8438 (BN)	40	-
Bruce Peninsula		Hanes (Hume)	8328	40	-
Bruce Peninsula, Atwood		Remple (Hume)	8324	42	-
Bruce Peninsula, Grimsey		Hume	8325	40	-
Bruce Peninsula, Whitefish L.		Garton (Hume)	8330	40	-
Byron Bog		Hume	7769	42	+
Grey Co., Shallow L.		Catling, McKay (Goepfert)	7582	42	-
Lamable		Giles	8440 (LA-7)	40	+
Niagara Peninsula, Stinking Barn		Giles*	8434 (SB)	40	+
Norfolk Co., Deer Creek		Hume	8299 (1/74)	40	-
Ontario Co., Claremont		Catling, McKay	7565	40	-
Ontario Co., St. Catharines, Guelph		Giles*	8436 (GU)	40	-
Ontario Co., St. Catharines, Thorold		Giles*	8435 (TH)	40	+
Peel Co., Brampton		Catling, McKay (Goepfert)	7584	42	-
Pinery Prov. Park		Hume	7772	ns	-
Toronto, 120 km E of Toronto, Garden Hill		Landolt-Stadler	7697	40	-
York Co., Ajax		Sparling (Goepfert)	7575	42	-
York Co., Highland Creek		Catling, McKay	7567	40	+
York Co., Whitby Marsh		Goepfert	7572	42	+
Saskatchewan					
Saskatoon		Steves (Perry*)	7123 (8-62)	42	+
U.S.A.					
Alabama					
Landersdale Co., Ralbroadfill pool		Stanley	7968	40	+
Limestone Co., Pryor Branch		Stanley	7969	40	-
Madison Co., Indian Creek		Stanley	7976	40	-
California					
El Dorado Co., Camino		L., U.	8185	40	-
Fresno Co., San Joaquin R.		L., U.	8154	40	-
Merced Co., Petaluma		Nobs, Hiesey, L.	6582 (805)	40	-
Riverside Co., Santa Ana R.		L., U.	8135	40	+
San Joaquin Co., Escalon		Nobs, Hiesey, L.	6591 (846)	42	+
San Joaquin Co., Mokelumne R.		L., U.	8184	40	-
San Joaquin, Stockton		L., U.	8168	40	-

Origin	<i>L. minor</i>	collected by (sent by)	ETH-No. (orig.No.)	2n	R.
California (continued)					
San Joaquin Co., Victoria Island		Nobs,Hiesey,L.	6587(840)	42	-
San Joaquin Co., Victoria Island		L., U.	8170	40,42	-
Sonoma Co., Valley Ford		Gigon	7553	40	-
Connecticut					
Chapel, Natchang R.		Wells,Rich	7815	40	-
Middlesex Co.,		Castle(Hillmann*)	7101(LMY)	42	+
Tolland Co., Mansfield Lepot		Heisy,Rich	7834	40	-
Florida					
Glades Co., Lake Okeechobee		Clark*	7492(3506)	40	+
Illinois					
Douglas Co., Douglas		Ebinger	7754(12284)	40	-
Hancock Co., Larry Creek		Henry	7986	40	-
Knox Co., Williamstead		Curtis(McClure*)	7136(46)	40	+
Peoria Co., Mossville		Curtis(McClure*)	7113(11)	42	+
Indiana					
Marion Co., Indianapolis		Beal	8673	ns	+
Vigo Co., Terre Haute		Hume	7860(12)	40	+
Iowa					
Dickinson Co., Emerson Bay		Hulbarry	7884	40	-
Kansas					
Barber Co., Arrowhead L.		L., U.	8003	50	-
Barber Co., Medecine Lodge		L., U.	8006	40(~49)-	
Barber Co., State L.		L., U.	8005	40	-
Wyandotte Co., Kansas City		Saeger(Hillmann*)	7102(LMS)	40	+
Kentucky					
Henderson Co., Geneva		Beal	7891	40	-
Henderson Co., Geneva		Beal	7894	40	+
Louisiana					
St. Tammany Par., Highway 90		L.	7004	42	-
Maryland					
Baltimore Co., Baltimore		Smythe(Haxo)	6728	50	+
Massachusetts					
Barnstable Co., West Barnstable		Cox(McClure*)	7112(49)	42	-
Hampshire Co., Amherst		Hume	7859(13)	40	-
Hampshire Co., Amherst		Tamlison	7935	40	+
Middlesex Co., Concord, Sudbury R.		Hellquist	7954	40	-
Worcester Co., Grafton, Lake Ripple		Hellquist	7952	40	-
Michigan					
Charlevoix Co., Beaver Island		Wujek(Clark*)	7518(N266)	40	+
Ingham Co., East Lansing		McNabb,Lisiecki,Payne	7765	40	-
Isabella Co., Chippewa R.		McNabb	7796	40	-
Minnesota					
Benton Co., Lake Benton		McNaughton(McClure*)	7114(5)	42	+
Benton Co., Lake Benton		McNaughton(McClure*)	7162(5)	42	-
Missouri					
Atchison Co., Westborough		McNaughton(McClure*)	7115(4)	50	+
Saline Co., Arrow Rock		Ott	8408	40	-
Montana					
Lake Co., Polson, Flathead L.		Mooar	7942	40	-
Nebraska					
Platt Co., Columbus		MacNaughton(McClure*)	7156(6)	42	+
North Carolina					
Durham Co., Durham		L.	8497	40	-
Durham Co., Highway 15/501		L.	8499	40	-
Washington Co., Plymouth		L.	8496	40(~30)-	
New Jersey					
Bergen Co., Harrington		L.	6580	42	+
Mercer Co., Princeton		L.	8607	40	+

Origin	<i>L. minor</i>	collected by (sent by)	ETH-No. (orig.No.)	ns	R.
New Jersey (continued)					
Mercer Co., Princeton		L.	8611	40	-
Morris Co., Morristown		L.	8614	40(-38)	-
Ocean Co., Island Beach		L.	8606	40	-
New York					
Clinton Co., Wickham Marsh		Smith,Rogerson,Dean	7871(49518)	40	-
Montgomery Co., Randall		Smith,Herrick(Ogden)	7785(49289)	40	+
Rennselaer Co., Eagle Bridge		Smith,Rogerson,Dean	7878(49552)	40	-
Rockland Co., West Nyack		L.	8616	40	-
Suffolk Co., Long Island, Upton		Armentano	7944(11973)	40	-
Ohio					
Ashland Co., Mohicon State Park		Roberts,Keil	7934(9709)	40	-
Clark Co., Madison		Roberts	7865	40	+
Coshocton Co., Blissfield		L.	8557	40	-
Coshocton Co., Warsaw		L.	8555	40	-
Erie Co., Huron		Petrich(Clark*)	7501(3710P90)	40	+
Erie Co., Huron		Petrich(Clark*)	7502(3710P35)	40	-
Holmes Co., Killbuck		L.	8560	ns	-
Holmes Co., Killbuck		L.	8566	40	-
Licking Co., Buckeye L.		Roberts	7910(4014)	40	-
Licking Co., Burlington, Utica		Roberts	7912(4065)	40	-
Madison Co., Darby, Plain City		Roberts	8213(4315)	40	-
Muskingum Co., Blackrun		L.	8548	ns	-
Muskingum Co., Blackrun		L.	8552	ns	-
Pickaway Co., Walnut,Circleville		Roberts	8212(4292)	40	-
Portage Co., Randolph		L.	8585	40	-
Portage Co., Randolph		L.	8589	40(34,42)	-
Preble Co., Israel, Acton L.		Roberts	7945(4270)	40	-
Summit Co., Clinton		L.	8573	40	-
Summit Co., Norton		L.	8580	40	-
Summit Co., Norton		L.	8583	40	-
Stark Co., Bethlehem		Roberts	7929(4099)	40	-
Stark Co., Jackson, Canton		Roberts	8235(4319)	40	-
Tuscarawas Co., Dover		Roberts	7768(3372)	40	-
Warren Co., Washington, Mathers Mills		Roberts	7947(4260)	40	-
Washington Co., Belpre		L.	8546	ns	-
Oregon					
Wasco Co., The Dalles		L.	6732	42	-
Pennsylvania					
Butler Co., Bellefonte		Grun	6742	50	+
Butler Co., Lake Arthur		L.	8598	40	-
Chester Co., Devon		Gregg(Clark*)	7521(N285)	40	-
Chester Co., Longwood		L.	8603	40	-
Crawford Co., Blooming Valley		Tropea	7927	40	-
Crawford Co., Conneaut L.		Tropea	8262	40	+
Crawford Co., Conneaut L.		Tropea	8263	40	-
Huntingdon Co., Water Street		L.	8599	ns	-
Lawrence Co., New Castle		L.	8594	40	-
Perry Co., Newport		L.	8601	40	-
Sullivan Co., Dushore		Wahl	6852	ns	-
South Dakota					
Lincoln Co., Tea		L., U., Rogers	8207	40(36)	-
Minnehaha Co., Palisades State Park		L., U., Rogers	8210	40,42	-
Minnehaha Co., Palisades State Park		L., U., Rogers	8211	40	+
Minnehaha Co., Sioux Falls		L., U., Rogers	8202	40	-
Moody Co., Colman		L., U., Rogers	8209	40	-
Utah					
Salt Lake, Bountiful		Buchanan	7844	40	+

Origin	<i>L. minor</i>	collected by (sent by)	ETH-No. (orig.No.)	2n	R.
U.S.A. (continued)					
Virginia					
Bedford Co., Big Island		L.	8543	ns	-
Middlesex Co., Rosegile		Ott	7600	40	-
Northampton Co., Cape Charles		Ott	7598	40	+
Westmoreland Co., Assateague		Ott	7719	50	-
Westmoreland Co., Colonial Beach		Ott	7601	40	-
Westmoreland Co., Williamsburgh		Ott	8347	40	-
Washington					
Lincoln Co., Davenport		Nobs	6570 (822)	42	+
Lincoln Co., Pullman		Nobs	6571 (823)	42	-
Lincoln Co., Wilbur		Nobs	6569 (821)	ns	-
Skagit Co., Mt. Vernon, Highway 99		Nobs	6568 (816)	42	-
Waskiakume Co., Bay Center		Buchanan	8337	40	-
West Virginia					
Wirt Co., Kanawha		L.	8545	40	-
Wisconsin					
Dane Co., Lake Kegousa		Fitzgerald	7731	40	-
Dodge Co., Alderly		Blum	7995	40	-
Dodge Co., Neosho		Blum	7989	40	-
Rock Co., Avon Township		Laube (Clark*)	7509 (N252)	40	-
Rock Co., Avon Township		Laube (Clark*)	7508 (N249)	40	+
Walworth Co., Rice Lake		Klötzli	7688	40	+
Waukesha Co., Mukwonago		Blum	7991	40	-
EUROPE					
Austria					
Burgenland, Neusiedlersee		Bolliger	8297	40	-
Oberösterreich, Taufkirchen		Grims	7938	40	+
Belgium					
Liège, Terwagne		L., U.	7749	40	-
Denmark					
Ijland, Ålborg		Roth-Meier	8623	40	+
Ijland, Hirtshals		Roth-Meier	8629	40	+
Ijland, Viborg		Roth-Meier	8624	40	-
Sjælland, Copenhagen		Clausen	6579	40	-
Sjælland, Copenhagen, Slangerup		Roth-Meier	8627	40	-
Sjælland, Vordingborg		Roth-Meier	8626	40	-
DDR					
Ostberlin, Teufelsee		Klötzli	7473	40	-
Eire					
Co. Carlow, Graiguenamanagh		Scannel	7899	40	-
Co. Carlow, Graiguenamanagh		Scannel	7900	40	-
Co. Carlow, River Barrow		Booth (Scannel)	7933	40	-
Dublin, Ballsbridge		Scannel	7868	40	+
France					
Alsace, Herrlisheim		L.	7840	40	-
Alsace, Strasbourg		L.	8382	40	-
Basses Pyrénées, Bidarray		Jovet	8309	40	-
Corsica, St. Florence		L.	8635	40 (41)	+
Dombes, Versailleux		L.	7809	40	-
Essonnes, Athis-Mons		Jovet	8228	40	-
Essonnes, Châlo-St.Mars		Jovet	8331	40	-
Essonnes, Courance		Mollet	8300	40	-
Gironde, Bordeaux, Marais de Blanquefort		Simon	8404	40	+
Lorraine, Nancy		L., U.	7751	40	+
Lorraine, Verdun		L., U.	7750	40	-
Normandie, Freneuse s/R.		Mollet	8310	40	-

Origin	<i>L. minor</i>	collected by (sent by)	ETH No. (orig.No.)	2n	R.
France (continued)					
Oise, Compiègne		Jovet	8301	40	-
Paris, Orsay		U.	7580	40	-
Seine et Marne, Provins		Yon	8231	40	-
Seine et Marne, Sordun		Jovet	8290	40	-
Sologne, Salbris		Schotsman	8293	40	-
Sologne, Salbris		Schotsman	8294	40	-
Sologne, Tigy		Schotsman	8295	40	-
Vienne, Poitiers		Mathon	8247	40	-
Germany					
Baden-Württemberg, Todtmoos		Sulger Büel	7020	40	-
Baden-Württemberg, Stuttgart		Schäffer	8396	40	-
Rheinland-Pfalz, Dahn		L., U.	7748	40	-
Schleswig-Holstein, Lübeck		Stalder	8372	40	+
Schleswig-Holstein, Fehmarn		Roth-Meier	8630	40 (42,43)	+
Greece					
Makedhonia, Axias		L.	7554	40	-
Makedhonia, Serrae		Dafis	7264	40	+
Hungary					
Balaton, Balatonföldvár		Gigon	8455	40	-
Balaton, Balatonföldvár		Gigon	8456	40	-
Szolnok, Tiszafüred		Gigon	8352	40	-
Italy					
Campania, Caserta-S.		L., Engetschwiler	7678	40	+
Lombardia, Rocca di Manerba		Sigg	7544	40	-
Lombardia, Pavia		L., U.	8274	40	-
Piemonte, Fondotoce		L., U.	7528	40	-
Piemonte, L. di Candia		L., U.	7622	40	-
Piemonte, Vercelli		L.	7008	42	+
Piemonte, Vercelli		L.	7009	40	-
Südtirol, Andrian		L., U.	7619	40	-
Südtirol, Reschenpass		L., U.	7620	40	+
Toscana, L. Massaciuccoli		Hess	7560	40	-
Toscana, L. Massaciuccoli		Hess	7560a	40	-
Toscana, Marina di Ronchi		Hess	7561	40	-
Toscana, Marina di Massa		Hess	7562	40	-
Toscana, Massarosa		L., Engetschwiler	7680	40	-
Toscana, Pisa, Colle Salvetti		Gigon	7901	40	-
Veneto, Verona		Hauser	7351	40	-
Luxembourg					
Diekirch		Honegger	8636	40	-
Malta					
Floriana		Haslam	7755	40	+
Netherlands					
Brabant, Boxtel		L.	8308	40	-
Friesland, Harlingen		L.	8302	40	-
Terschelling, Hoorn		L.	8305	40	+
Terschelling, Osten		L.	8306	40	-
Norway					
Oslo, Hønefoss		Roth-Meier	8625	40	+
Poland					
Cieszyn, Wyszni		Wolek	8283	40	-
Kraków, Kryspinów		Wolek	8285	40	-
Mazury, Białowieża		Klötzli	7407	40	-
Mazury, Ełk		Klötzli	7406	40	-
Mazury, Kampinos		Klötzli	7800	40	-
Mazury, Nowogród		Klötzli	7402	40	-
Mazury, Sandomierz		Klötzli	7405	40	+
Oświęcim, Śleda		Wołek	8287	40	-
Wadowice, Ligota		Wołek	8284	40	-

Origin	<i>L. minor</i>	collected by (sent by)	ETH No. (orig.No.)	2n	R.
EUROPE (continued)					
Portugal					
Alto Alentejo, St. Aleixo		Malato-Beliz	7220	40	-
Alto Alentejo, Tolosa		Malato-Beliz	7660	40	-
Baira Baixa, Rio Zézere		Malato-Beliz	7640	40	-
Ribatejo, Coruche		Martins	7195	40	+
S. Mamede, Marvao		Malato-Beliz	7439	40	-
S. Mamede, Portalegre		Malato-Beliz	7438	40	-
Romania					
Bucuresti		Nedelcu	7917a	ns	-
Dobrogea, Maliuc		Klötzli	7416	40	+
Spain					
Andalusia, Cordoba		L.	7022	40	+
Islas Baleares, Mallorca, Artá		Schotsman	8417	40	+
Switzerland					
Aargau, Reusstal		Klein	8433	40	-
Basel-Land, Allschwil		Gigon	7738	40	-
Freiburg, Jaunpass		U.	7630	40	-
Jura, Bonfol		L.	7011	40	-
Jura, Bonfol		L.	7345	40	-
Luzern, Baldeggersee		L.	7563	40	-
Schaffhausen, Egelsee		Koch	6626 (553)	40	-
Schaffhausen, Egelsee		Sigg	7326	40	-
Schaffhausen, Espi		Koch	6625 (551)	40	-
Schwyz, Einsiedeln		Sigg	7863	40	-
Schwyz, Rothenthurm		Züst	7638	40	-
St. Gallen, Altenrhein		Züst	7587	40	-
St. Gallen, Altenrhein		Hegi	8398	40	-
St. Gallen, Obersee		Züst	7559	40	-
Tessin, Bolle Rossa		Meyer	8171	40	-
Tessin, Magadino		Klötzli	7174	40	-
Tessin, Magadino		Klötzli	7175	40	-
Thurgau, Hüttwilersee		Sigg	8269	40	-
Waadt, Morges		L., U.	7527	40	-
Wallis, Fully		L., U.	7526	40	-
Zürich, Andelfingen		Sigg	7348	42	-
Zürich, Dürnten		Sigg	7437	40	-
Zürich, Hettlingen		Sigg	7350	40	-
Zürich, Katzenssee		L.	6578	40	+
Zürich, Katzenssee		L.	7019	40 (43)	-
Zürich, Kloten		Hegi	8617	40	-
Zürich, Lützelsee		Züst	7701	40	-
Zürich, Pfäffikon, Maggried		L.	7845	40	-
Zürich, Tössegg		Grünig	8400	40	-
Zürich, Wetzikon, Ambitzgi		L., U.	7334	40	-
Turkey					
Istanbul, Seytankemeri		Aydin	7637	40	-
United Kingdom					
England					
Devon, Lundy Island		Horrill	7419	40	-
Dorset, East Stoke		Haslam	7915	40	-
Essex, Broxted		Waterfield (Clark*)	7510 (N255)	40	-
Hunts., Sawtry		Horrill	7335	40	-
Hunts., Somerset levels		Haslam	7882	40	-
Hunts., Woodwalton Fen		Horrill	7266	40	-
Hunts., Woodwalton Fen		Haslam	7888	40	-
Hunts., Woodwalton Fen		Haslam	7756	40	-
Hunts., Woodwalton Fen		Haslam	7758	40	-

Origin	<i>L. minor</i>	collected by (sent by)	ETH No. (orig.No.)	2n	R.
England (continued)					
Shropshire, Whixhall		Haslam	7811	40	-
Surrey, Richmond		Heine	7016	40	+
Suffolk, Sapiston		Haslam	7903	40	-
Wales					
Cardiff, Wentlooge level		Scotter	7764	40	-
USSR					
Kalinin, Nielidawo		Zarzycki	8327	40	-
Leningrad		Raspopov	7448	40	-
Leningrad, Nowosietow		Zarzycki	8326	40	-
Moldaviya S.S.R., Skoreny		Raspopov	7535	40	+
Moskva, Moskva		L.	8373	40	+
Novgorod		Ivanova (Vassilczenko)	7440	40	-
Novgorod		Ivanova (Vassilczenko)	7442	40	-
Novgorod		Ivanova (Vassilczenko)	7444	40	-
Novgorod		Ivanova (Vassilczenko)	7446	40	-
Novgorod		Ivanova (Vassilczenko)	7447	40	-
Onega, Kondopogskaja Guba		Raspopov	7436	40	+
Vologda, Kubéna		Raspopov	7676	40	+
Yugoslavia					
Croatia, Zagreb, Sava R.		Bedalowa	7423	40	-
AFRICA					
Egypt					
Sandanhur		Mahdi (Täckholm)	7376b	ns	-
Ethiopia					
Hara, Semien, 2800 m		Burnand, Klötzli	7713	40	-
Hara, Semien, Djinbar-Wans, 3470 m		Klötzli	7753	40	+
Libya					
Wadi Derna		Boulos	7295	40	+
Morocco					
Larache, Boucharen		Mathez	7650	40	+
South Africa					
Cape, Grahamstown, "Rockeby Park"		Brink	7210	40	+
Cape, Stellenbosch, Jonkershoek		Kruger (Vos)	7244	30	+
Cape, Stellenbosch, Kuilsriver		Oliver (Vos)	7250	40	+
Natal, Alberton		Lubke	7789	20	+
Natal, Enseleni, Richards Bay		Venter	7346	40	+
Natal, Mbazwane		Mauve	8249 (4931)	40	-
Natal, Mzingazi L.		Venter	7363	40	-
Natal, Sordwana Bay		Botha	8219	40	-
Transvaal, Albany District		Lubke	8389	40	+
Transvaal, Albany District		Lubke	8391	40	+
Uganda					
Masaka		Denny	7194	40	+
ASIA					
India					
Kashmir, 20 km W Srinagar		Klötzli	8676	ns	+
Iran					
Mazandaran, Ramsar, Ghassem Abbath		Landolt-Stadler	8292	40	+
Lebanon					
El Beqaa, Ammiq		Elhage	7283	40	+
Turkey					
Anatolia, Erzincan		Simon	7018	40	+
AUSTRALIA					
Victoria, Melbourne, Doncaster		Sonnenberg	7189	40	+

Origin	<i>L. minor</i> <i>L. minuscula</i>	collected by (sent by)	ETH-No. (orig.No.)	2n	R.
PACIFIC OCEAN REGION					
New Zealand					
Northern Island					
South Auckland, Rotorua		U.	8620	30 (32)	-
Southern Island					
Christchurch, Banks Peninsula		Hiesey	7015	42	+
North Canterbury, L. Coleridge		U.	8619	40	+
North Canterbury, Leithfield Beach		Mason	7539 (11722)	40	-
North Canterbury, Leithfield Beach		Mason, U.	8643	40 (42)	-
North Canterbury, Leithfield Beach		Mason	7542 (11725)	40	+
North Canterbury, Leithfield Beach		Mason, U.	8645	40	-
North Canterbury, Sefton		Mason	7538 (11727)	20 (40)	+
North Canterbury, Sefton		Mason, U.	8644	40	-
Richmond, Aniseed Valley		Michaelis	7766	40	+
<i>Lemna minuscula</i>					
NORTH AMERICA					
U.S.A.					
Arkansas					
Clark Co., Gurdon		L., U.	8022	40	+
Pope Co., Atkins		Clark*	7512 (N258)	40	+
California					
Alameda Co., Niles Canyon		Nobs, Hiesey, L.	6584 (836)	40	+
Fresno Co., Fresno		L., U.	8155	40	-
Kern Co., Onyx		L.	6726	40	+
Madera Co., Madera		L., U.	8156	40	-
Madera Co., Manzanita L.		L.	6863	36	-
Mariposa Co., Cathai		L.	6747	40	+
Merced Co., Snelling		L., U.	8163	40, 36	-
Mono Co., Bridgeport		Nobs, Hiesey, L.	6597 (854)	36	+
Mono Co., Fales Hot Springs		Nobs, Hiesey, L.	6599 (856)	ns	-
Mono Co., Fales Hot Springs		Nobs, Hiesey, L.	6600 (857)	40	+
San Diego Co., Campo		L., U.	8127	40	-
San Diego Co., Escondido Canal		L., U.	8134	40 (36, 38)	-
San Diego Co., Otay		L., U.	8129	40, 38	-
San Diego Co., Solana Beach		L., U.	8131	40	-
San Joaquin Co., Mokelumne R.		L., U.	8183	40	-
San Joaquin Co., Stockton		Nobs, Hiesey, L.	6589 (843)	36	+
San Joaquin Co., Victoria Island		L., U.	8172	40	-
San Luis Obispo Co., Grover City		L., U.	8147	40, 36	-
San Luis Obispo Co., Los Osos		L., U.	8151	40	-
San Mateo Co., La Honda		Hiesey	6711	40	+
Santa Barbara Co., Vandenberg AFB		L., U.	8139	40 (34)	+
Santa Cruz Co., L. Thynan		Gigon	7530	40	-
Santa Cruz Co., L. Thynan		L., U.	8178	40	-
Stanislaus Co., Knights Ferry		L., U.	8164	40	-
Tuolumne Co., L. Tulloch		L., U.	8165	40	-
Tuolumne Co., Shawmets Grade		L.	6744	40	+
Nebraska					
Garden Co., Oshkosh		Kiener	6752	40	+
Texas					
Brazoria Co., Old Ocean		L., U.	8065	40	+
Davis Co., Tohyahvale		L., U.	8119	40	+
Kerr Co., Hills Inland Fisheries Res.Stat.		L., U.	8115	40	+
Washington					
Asotin Co., Clarkston		L.	6737	40	+
CENTRAL AMERICA					
Guatemala					
Chimaltenango, Chocoyos		Norvell	6717 (5002)	40	+

Origin	<i>L. minuscula</i> <i>L. valdiviana</i>	collected by (sent by)	ETH-No. (orig.No.)	ns	R.
SOUTH AMERICA					
Argentina					
Buenos Aires, Arroyo Vitel, Chascomas		Tur	7921	40	+
Buenos Aires, Chascomas		Verona (Guarrera)	7228	40	-
Buenos Aires, Jardino Botanico		Leon	7180	40	+
Corrientes, Empedrado, La Yela		Pedersen	8662	ns	+
Corrientes, Sans Luis, Paso Horqueta		Pedersen	8659	ns	+
Tucuman, Quebrado de los Sosas		Meyer	7369	40	+
Bolivia					
Oruro, Sajama, 4300 m		Klein	8669	ns	-
Oruro, Sajama, 4300 m		Klein	8672	ns	-
Chile					
Valparaiso, Limache		Weisser	7726	40	+
Peru					
Cuzco, San Geronimo		Landolt-Stadler	7612	40	+
EUROPE					
France					
Alsace, Strasbourg		L.	8383	40	+
Biarritz, Lac Marion		Jovet	7724	40	+
Gironde, Bordeaux, Marais de Blanquefort		Simon	8406	40	+
Switzerland					
Aargau, Klingnau		Grossmann	8370	40	+
St. Gallen, Altenrhein		Hegi	8385	40	+
United Kingdom					
England					
Cambridge and Isle of Ely, Cambridge, Campus L.			8430	40	+
<i>Lemna valdiviana</i>					
NORTH AMERICA					
Mexico					
Tabasco, Villahermosa		Gigon	7653	40	+
U.S.A.					
Alabama					
Limestone Co., Pryor Branch		Stanley	7969a	ns	-
Madison Co., Blackwell Swamps		Stanley	7974	40	+
Arkansas					
Pope Co., Atkins		Demaree (Clark*)	7511 (N256)	40	-
Saline Co., Jim Howard Spring		Demaree (Clark*)	7514 (N260)	40	+
California					
San Luis Obispo Co., Oso Flaco L.		Gigon	7546	40	+
Florida					
Glades Co., L. Okeechobee		Clark*	7494 (3506)	40	+
Wakulla Co., Crawfordville		L.	7005	40	+
Illinois					
Chicago, Salt Creek		Ehrlich	7803	40	+
Louisiana					
Ascension Par., 38 km S of Baton Rouge		Culley	7848	40	-
Iberia Par., Avery Island		Lasseigne (Clark*)	7515 (N263-P105)	40	+
Iberia Par., Avery Island		Lasseigne (Clark*)	7516 (N263-P95)	40	-
Rapides Par., Alexandria		L., U.	8034	40	-
St. James Par., 50 km S of Baton Rouge		Culley	7847	40	-
St. Mary Par., Morgan City		L.	7002	40 (~55)	+
Vermilion Par., Pecan Island		L., U.	8043	40	-
Vermilion Par., Pecan Island		L., U.	8051	40	-
Vermilion Par., Pecan Island		L., U.	8057	40	-
Mississippi					
Adams Co., Natchez		Alston (McClure*)	7147 (31)	40	+

Origin	<i>L. valdiviana</i>	collected by (sent by)	ETH No. (orig.No.)	2n	R.
U.S.A. (continued)					
North Carolina					
Carteret Co., Atlantic Beach		L.	8478	40	-
Columbus Co., Brunswick		Beal (McClure*)	7116 (56)	40	+
Currituck Co., Gregory		L.	8528	ns	-
Dare Co., Nags Head Woods		L.	8490	40	-
Martin Co., Williamston		Ott	7673	40	-
Pasquotank Co., Belcross		L.	8524	40	-
Pasquotank Co., Halls Creek		L.	8511	ns	-
Pasquotank Co., Pasquotank R.		L.	8515	40	-
South Carolina					
Beaufort Co., Jacksonboro		Clark*	7483 (3303-P137)	40	-
Beaufort Co., Jacksonboro		Clark*	7484 (3303-P142)	40	+
Jasper Co., Savannah R.		L.	8462	40	-
Jasper Co., Savannah R.		L.	8466	ns	-
Tennessee					
Obion Co., Reelfoot L.		Stanley	7963	40	-
Perry Co., Springfead Stream		Stanley	7967	40	+
Texas					
Brewster Co. (aquarium)		Bold (McClure*)	7148	40	+
Hays Co., San Marcos		McClure*	7117 (18)	40	+
Matagorda Co., Cedar Lane		L., U.	8069	40	-
Matagorda Co., Cedar Lane		L., U.	8075	40	-
Travis Co., Austin (aquarium)		McClure*	7161 (1)	40	+
Victoria Co., Placedo		L., U.	8080	40	-
Virginia					
Lancaster Co., Dymer Creek		Ott	7592	40	+
CENTRAL AMERICA and WEST INDIES					
Dominican Rep.					
Artibonite, Desdunes		Lowden	8420 (3782)	40	-
Dept. du Nord, Etang Romeo		Lowden	8424 (3795)	40	-
Independencia, La Sulsa		Lowden	8375 (3512)	40	+
Monte Cristi, Laguna Saladilla		Lowden	8314 (3405)	40	+
Samana, Sanchez		Lowden (Jiménez)	7718	40	+
San Cristobal, Arroyo Madre Vieja		Marcano (Jiménez)	7668	ns	-
Jamaica					
Manchester Par., Alligator Hole R.		Lowden	8634 (3867)	40	+
Panama					
Panama City		Klötzli	8411	40	+
SOUTH AMERICA					
Argentina					
Cordoba, Mina Clarero		Pedersen	8414	40	+
Corrientes, Concepcion, Carambola		Pedersen*	8621	40	+
Corrientes, Mburucuyá, "Santa Maria"		Pedersen	7709	40	-
Corrientes, Mburucuyá, "Santa Teresa"		Pedersen	7703	40	+
Corrientes, San Luis, Paso Horqueta		Pedersen	8658	ns	-
Entre Rios, La Paz		Burkart (Giardelli)	7715 (21132)	40	-
Brazil					
Amazonas, Manaus, Rio Negro		Mitchell (Cook)	7288	40	+
Amazonas, Manaus, Salado L.		Junk	8312b	ns	-
Guanabara, Grula da Imprensa		Segadas-Vianna	7252	40	-
Guanabara, Horto Botanico		Segadas-Vianna	7227	40	+
Guanabara, Lagoa di Camorêm		Segadas-Vianna	7254	40	-
Guanabara, Recreio Bandeirantes		Segadas-Vianna	7224a	40	-
Rio Grande do Sul, Pelotas		Sacco	7996	40	+
Rio Grande do Sul, Pelotas		Sacco	7998	40	-
Sao Paulo, Caraguatatuba		Sucre, Burle (Freire de Carvalho)	7362 (6454)	40	+

Origin	<i>L. minuscula</i> <i>Wolffiella</i>	collected by (sent by)	ETH No. (orig.No.)	2n	R.
SOUTH AMERICA (continued)					
Colombia					
Bogota, Represa de Tominé		Fernandez-Pérez	7186	40	+
Paraguay					
Asunçion, Bot. Garden		Bordas	8236	40	+
Peru					
Puno, Titicaca L.		Landolt-Stadler	7614	40	+
Puno, Titicaca L.		Bolliger	8446	40	-
Surinam					
Paramaribo, Charlesburg		Teunissen	7356 (LBB12757)	40	+
Trinidad					
St. Augustine		Kaloo (Cope)	7329	40	+
Uruguay					
Montevideo, Carrasco, Airport		Rosengurth	7284	40	+
Venezuela					
Carabobo, Morón		Tillet	7408 (708-52)	40	+
Yaracuy, Marín		Tillet	7465 (7012-57)	40	+
WOLFFIELLA					
<i>Wolffiella hyalina</i>					
AFRICA					
Egypt					
Giza, Kirdasa		Sisi (Täckholm)	7378a	ns	-
Hafr Shoukr		Mahdi (Täckholm)	7378	40	+
Mahallet, El Qubba		Mahdi (Täckholm)	7376	40	+
Mahallet, El Qubba		Mahdi (Täckholm)	7376a	ns	-
Malawi					
Lake Chilwa		Müller	7426 (1694)	40	+
Tanzania					
Arusha, Amboseli		Klötzli	8640	40	+
Lake Manyara		Kundaeli	7555 (4107)	40	+
<i>Wolffiella neotropica</i>					
SOUTH AMERICA					
Brazil					
Amazonas, Neptunia, Rio Negro		Mitchell (Cook)	7290	40	+
Espirito-Santo, Heliofila		Sucre (Reitz)	7609	40	+
Guanabara, Rio de Janeiro		Segadas-Vianna	7225	40	+
Rio de Janeiro, Cabo Frio		Sucre (Freiro de Carvalho)	7279 (6454)	40	+
<i>Wolffiella Welwitschii</i>					
CENTRAL AMERICA and WEST INDIES					
Dominican Rep.					
Altagracia, Miches		Lowden	8280 (3345)	ns	-
Nacional Distr., Guerra		Lowden	8666	ns	-
Nacional Distr., Laguna de Cuenca		Jiménez	8254	ns	-
Monte Cristi, Laguna Saladilla		Lowden	8315 (3406)	ns	-
SOUTH AMERICA					
Colombia					
Atlantico, Barranquilla		Dugand	7468	40	-
Surinam					
Paramaribo, Zypad		Cramer	8259 (14887LBB)	ns	-

Origin	<i>W. lingulata</i> <i>W. oblonga</i>	collected by (sent by)	ETH-No. (orig.No.)	ns	R.
AFRICA					
Angola					
Benguela, Cubal		Azancot de Meneles	7644	40	+
Botswana					
Nyamiland, Sepopa		Müller	8368	ns	-
South Africa					
Natal, Mbazwane		Mauve	8252 (4931)	40	-
Natal, Sordwana Bay		Botha	8222	ns	-

Wolffiella lingulata

NORTH AMERICA

Mexico

Tabasco, Villahermosa	Gigon	7655	40	+
Veracruz, Coatzacoalcos	Gigon	7658	40	+

U.S.A.

California

San Luis Obispo Co., Oso Flaco L.	Gigon	7547	40 (20)	+
Santa Barbara Co., Vandenberg AFB	L., U.	8141	40	+
Santa Cruz Co., L. Thynan	L.	6748	ns	-
Santa Cruz Co., L. Thynan	Gigon	7531	ns	-
Santa Cruz Co., L. Thynan	L., U.	8175	40	+

Louisiana

Vermilion Par., Pecan Island	L., U.	8041	40	+
Vermilion Par., Pecan Island	L., U.	8049	40 (~50)	-

SOUTH AMERICA

Argentina

Corrientes, Empedrado, La Yela	Pedersen	8664	ns	+
Corrientes, Mburucuya, "Santa Teresa"	Pedersen	7725	20	+
Corrientes, San Luis, Paso Horqueta	Pedersen	8661	ns	+

Brazil

Amazonas, Rio Negro, Manaus	Mitchell (Cook)	7289	50	+
Amazonas, Rio Negro, Parana-Canal	Mitchell (Cook)	7292	50	+

Paraguay

Asunçion, Bot. Garden	Bordas	8237	40	+
Asunçion, Bot. Garden	Bordas	8238	40	+

Surinam

Saramacca R.	Teunissen	7360 (12755)	40	+
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Trinidad

St. Augustine	Kalloo (Cope)	7330	40	+
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Venezuela

Yaracuy, Marín	Tillet	7464 (7012-57)	20	+
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Wolffiella oblonga

NORTH AMERICA

U.S.A.

Florida

Collier Co., Immokolee	McClure*	7169 (105)	40	-
Collier Co., Immokolee	McClure* (Cleland)	8393 (105)	40	+
Glades Co., L. Okeechobee	McClure*	7168 (104)	40	-

Louisiana

East Baton Rouge Par., Rt. 30	Culley	7853	40	+
Orleans Par., New Orleans	Youngman (McClure*)	7164 (53)	40 (~50)	+
Orleans Par., New Orleans	Daubs (McClure*)	7166 (79)	40	+
Rapides Par., Alexandria	L., U.	8031	40	+
Rapides Par., Alexandria	L., U.	8035	40	-
St. Charles Par., Norco	McClure*	7167 (96)	40	+

Origin	<i>W. oblonga</i> <i>W. gladiata</i>	collected by (sent by)	ETH No. (orig.No.)	2n	R.
Louisiana (continued)					
St. James Par., Rt. 61		Culley	7855a	40	+
St. John the Baptiste Par., 40 km NW of New Orleans		Hume	7837(8)	40	+
Vermilion Par., Pecan Island		L., U.	8042	40	-
Vermilion Par., Pecan Island		L., U.	8047	40	-
Vermilion Par., Pecan Island		L., U.	8054	40	-
Texas					
Hidalgo Co., San Manuel		L., U.	8109	40	-
Matagorda Co., Old Ocean		L., U.	8072	40	+
SOUTH AMERICA					
Argentina					
Buenos Aires, Arroyo Burqueño		Leon	7201a	70	+
Buenos Aires, Arroyo Vitel, Chascomas		Tur	7923	40	+
Corrientes, Empedrado, La Yela		Pedersen	8662	ns	-
Corrientes, San Luis, Paso Horqueta		Pedersen	8659	ns	-
Tucuman, Capital		Meyer	8662	ns	-
Bolivia					
Prov. Oruro, Sajama, 4300 m		Klein	8670	ns	-
Brazil					
Amazonas, 100 km W of Manaus, Salado L.		Junk	8312a	ns	-
Rio Grande do Sul, Pelotas		Sacco	7997	40	+
Sao Paulo		Joly (McClure*)	7142(72)	70	-
Sao Paulo		Joly (Ott)	7569(72)	40	+
Sao Paulo		Joly (Ott)	7732(72)	40	+

Wolffiella gladiata

NORTH AMERICA

U.S.A.

Illinois					
Union Co., Pine Hills Swamps		Pieterse*	8350	40	+
Louisiana					
East Baton Rouge Par., 15km S of LSU		Culley	7852	40	+
Rapides Par., Alexandria		L., U.	8032	40	-
North Carolina					
Brunswick Co., Old Brunswick Town		Beal (McClure*)	7163(57)	40	-
Brunswick Co., Old Brunswick Town		Beal (Ott)	7570(57)	40	-
Camden Co., Pasquotank R.		L.	8516	40	-
Camden Co., Belcross		L.	8521	40	-
Camden Co., Belcross		L.	8526	ns	-
Carteret Co., Atlantic Beach		L.	8479	40	-
Currituck Co., Gregory		L.	8531	ns	-
Dare Co., Nags Head Woods		L.	8487	40	+
Dare Co., Nags Head Woods		L.	8493	40	-
Pasquotank Co., Necksville		L.	8512a	40	-
Pennsylvania					
Crawford Co., Conneaut L.		Tropea (Wohler)	8261	40	+
South Carolina					
Darlington Co., Darlington		L.	8472	40	-
Jasper Co., Savannah R.		L.	8467	40	-
Texas					
Matagorda Co., Old Ocean		L., U.	8066	40	+
Travis Co., Austin, University		L.	7000	ns	-
Travis Co., Austin, University		McClure* (Cleland)	8392	40	+
Virginia					
Lancaster Co., Dyer Creek		Ott	7590	40	+
Prince George Co., Brandon		Ott	7595	40	+

Origin	<i>W. denticulata</i> <i>Wolffia</i>	collected by (sent by)	ETH-No. (orig.No.)	2n	R.
U.S.A. (continued)					
Washington					
Pierce Co., Tacoma		Johnston	7173	40	+
<i>Wolffiella denticulata</i>					
AFRICA					
South Africa					
Natal, Mbazwane		Mauve	8251 (4931)	ns	-
Natal, Sordwana Bay		Botha	8221	40	+
Natal, Zululand		Mauve (Ott)	7454 (V050)	20	+
WOLFFIA					
<i>Wolffia microscopia</i>					
ASIA					
India					
Delhi, Najafgarh		Maheshwari (Kandeler*)	8359 (WMI)	80	+
Gujarat, Kadi		Yogi	7238	40	-
<i>Wolffia brasiliensis</i>					
NORTH AMERICA					
Mexico					
Hidalgo, 110 km N of Mexico City		Gigon	7663	40	+
Mexico City, Mixquic		Pineda (Rzedowski)	7306a (1001)	40	+
Mexico City, Mixquic		Pineda (Rzedowski)	7311 (1002)	40	-
Mexico City, Mixquic		Pineda (Rzedowski)	7314 (1003)	40	-
Michoacan, Quiroga		Clark*	7499 (3693-P133)	40	-
Michoacan, Quiroga		Clark*	7500 (3693-P132)	40	+
U.S.A.					
Alabama					
Limestone Co., Beaverdam Creek		Stanley	7971	40	+
Arkansas					
Clark Co., Arkadelphia		L., U.	8019	50, 48-49	-
Clark Co., Gurdon		L., U.	8020	50	+
Union Co., Bernice		L., U.	8027	80, 76-78	-
Illinois					
Hancock Co., Larry Creek		Daubs (McClure*)	7104 (83)	60	+
Hancock Co., Larry Creek		Henry	7988	40	+
Kentucky					
Henderson Co., Hancock Slough		Hartowitz (Beal)	7897	40	+
Logan Co.		Beal	8674	ns	+
Louisiana					
Rapides Par., Alexandria		L., U.	8029	40	-
Massachusetts					
Middlesex Co., Concord, Sudbury R.		Hellquist	7955	40	+
New Jersey					
Mercer Co., Princeton		L.	8609	40	+
Morris Co., Morristown		L.	8615	40	-
North Carolina					
Camden Co., Belcross		L.	8520	40	-
Camden Co., Belcross		L.	8525	ns	-
Currituck Co., Gregory		L.	8529	ns	-
Dare Co., Nags Head Woods		L.	8482	40	-
Dare Co., Nags Head Woods		L.	8485	40	+
Dare Co., Nags Head Woods		L.	8491	ns	-
Tyrell Co., Highway 64		Luteyn (Clark*)	7522 (N297)	40	+
Wake Co., Garner		L.	8500	40	-

Origin	<i>W. brasiliensis</i>	collected by (sent by)	ETH No. (orig.No.)	2n	R.
U.S.A. (continued)					
Ohio					
Hancock Co., Larry Creek		Henry	7988	40	+
Holmes Co., Killbuck		L.	8563	ns	-
Holmes Co., Killbuck		L.	8567	40	-
Portage Co., Randolph		L.	8586	40	-
Portage Co., Randolph		L.	8591	40	-
Summit Co., Clinton		L.	8574	40	+
Warren Co., Washington		Roberts	7948(4260)	40	+
Stark Co., Bethlehem		Roberts	7931a(4097a)	40	-
Pennsylvania					
Chester Co., Long Wood		L.	8604	40	+
Crawford Co., Conneaut L.		Tropea(Wohler)	8264	40	+
South Carolina					
Darlington Co., Darlington		L.	8471	40	-
Richland Co., Cedar Creek		L.	8458	40	-
Tennessee					
Obion Co., Reelfoot L.		Stanley	7964	40	+
Texas					
Bexar Co., San Antonio		Wilks(McClure*)	7149(36)	50	-
Brazoria Co., Old Ocean		L., U.	8060	40	+
Fayette Co., La Grange		Mabry(McClure*)	7105(76)	50	+
Gonzales Co., Nixon		L., U.	8088	40	-
Harrisison Co., Uncertain		Thompson(McClure*)	7109(87)	50	+
Hays Co., Aquarena Springs		L., U.	8100	50,49	-
Hays Co., San Marcos		McClure*	7150(32)	50	+
Hays Co., San Marcos		McClure*	7151(22)	50	-
Hays Co., San Marcos		Bruchmiller(Hannan)	7773	20	+
Hays Co., San Marcos		L., U.	8094	50	-
Hays Co., San Marcos		L., U.	8097	50	-
Kerr Co., Heart of the Hills		L., U.	8116	40	+
Virginia					
Lancaster Co., Whitestone		Ott	7591	40	+
CENTRAL AMERICA and WEST INDIES					
Dominican Rep.					
Dajabón, Restauración		Cicero(Jiménez)	7710	40	-
Dept. du Nord, Etang Romeo		Lowden	8422(3802)	ns	-
El Seibo, Hato Mayor		Lowden	8334	40	+
El Seibo, Seibo		Lowden	8277(3332)	40	-
Monte Cristi, Laguna Saladilla		Lowden	8319(3402a)	40(44)	+
Puerto Plata		Lowden	8317(3408)	40	-
Puerta Plata, Estero Hondo		Lowden	8321(3417)	40	-
Puerto Plata, Punta Rucia		Lowden	8323(3412)	40	-
Puerto Plata, Sabaneta de Jásica		Lowden(Jiménez)	7843(3170)	40	+
SOUTH AMERICA					
Argentina					
Buenos Aires, Arroyo Vitel, Chascomas		Tur	7925	40	+
Corrientes, Concepcion, Carambola		Pedersen	8621a	ns	-
Corrientes, San Luis, Paso Horqueta		Pedersen	8657	ns	-
Brazil					
Paraná, San José dos Pinhais		Hatschbach	7712(31077)	40	+
Venezuela					
Aragua, Maracay		Carénas	7303(1.217)	40	+
Lara, Quibor		Tillet	7397(707-51)	40	+
Lara, Quibor		Tillet	7455(7010-55)	40	-
Lara, Terrepaima		Tillet	7556(718-64)	40	-
Mérida, Las Mezas		Tillet	7581(7110-88)	40	+
Portuguesa, Siporo		Tillet	7466(711-19)	40	+

Origin	<i>W. borealis</i> <i>W. australiana</i>	collected by (sent by)	ETH No. (orig.No.)	2n	R.
<i>Wolffia borealis</i>					
NORTH AMERICA					
Canada					
Ontario					
Baptiste Creek		Staniforth (Hume)	7788	40	+
Fronterac Co., Odessa, Mud L.		Crowder	7877	ns	-
Peel Co., Brampton		Catling, McKay (Goepfert)	7585	40	-
York Co., Ajax, Le Vay's Marsh		Sparling (Goepfert)	7577	40	-
York Co., Highland Creek		Catling, McKay (Goepfert)	7566	40	+
120 km E of Toronto, Garden Hill		Landolt-Stadler	7698	40	+
U.S.A.					
Indiana					
Putman Co., Greencastle		Welch	7354 (21534)	40	-
Vigo Co., Terra Haute		Hume	7862 (12)	30	+
Iowa					
Dickinson Co., Emerson Bay		Hulbarry	7392	ns	-
Dickinson Co., Emerson Bay		Hulbarry	7886	40	+
Dickinson Co., Milford		Hulbarry	7389	ns	-
Michigan					
Ottawa Co., Spring L.		McNabb	7908	40	+
New York					
Rensselaer Co., Eagle Bridge		Smith, Rogerson, Dean (Ogden)	7880 (49553)	40	+
Ohio					
Clark Co., South Charleston		Roberts	7867	30	+
Holmes Co., Killbuck		L.	8568	ns	-
Muskingum Co., Blackrun		L.	8549	ns	-
Muskingum Co., Blackrun		L.	8553	ns	-
Portage Co., Randolph		L.	8587	30	-
Portage Co., Randolph		L.	8592	40 (38)	+
Stark Co., Bethlehem		Roberts	7931 (4097)	30	-
Summit Co., Clinton		L.	8575	ns	-
Summit Co., Clinton		L.	8578	30	-
Summit Co., Norton		L.	8581	ns	-
Pennsylvania					
Lawrence Co., Newcastle		L.	8595	40	-
Wisconsin					
Walworth Co., Elkhorn, Pleasant L.		Smith	7830	30	-
Walworth Co., Rice L.		Klötzli	7690	20 (23)	+
Walworth Co., Whitewater L.		Klötzli	7696	ns	-
<i>Wolffia australiana</i>					
AUSTRALIA					
South Australia					
Glencoe West		Wattenwyl	7819	20	+
Mount Lofty Range, Torrens Gorge		Eichler (Ott)	7733 (19078)	20	+
Tasmania					
Lewisham		Morris (Curtis)	7267	40	+
Lewisham		Morris (Curtis)	7280	40	-
Pittwater Estate		Turnbull	7783	40	+
Victoria					
Ballarat, Lake Wendouree		Aston	7317 (1782)	40	+
Melbourne (Botany School)		Chambers	7211	40	+
Melbourne, Cranbourne		Aston	7275 (1777)	40	-
Gippsland, Lake Wellington		Aston	7635 (1820)	40	-
Gippsland, Sale		Aston	7631 (1814)	40	+
Shepparton		Aston	7605 (1811)	40	+

Origin	<i>W. angusta</i> <i>W. arrhiza</i>	collected by (sent by)	ETH-No. (orig.No.)	2n	R.
PACIFIC OCEAN REGION					
New Zealand					
North Canterbury, Leithfield Beach		Mason	7540 (11720)	40	+
North Canterbury, Leithfield Beach		Mason, U.	8647	40	-
North Canterbury, Leithfield Beach		Mason	7543 (11724)	20	+
North Canterbury, Leithfield Beach		Mason, U.	8648	40,20	-
<i>Wolffia angusta</i>					
AUSTRALIA					
New South Wales					
Newcastle, Seaham		Briggs, Johnson (Mair)	7274 (NSW118434)	40	+
Victoria					
Echuca, Tongala		Aston	7480 (1805)	40	+
Shepparton, Bunbartha		Aston	7476 (1802)	40	+
<i>Wolffia arrhiza</i>					
EUROPE					
Germany					
Niedersachsen, Wendeland, Dannenberg		Tüxen	7014	40 (50,70)	+
Niedersachsen, Wendeland, Dannenberg		Tüxen (Honda)	8217	40	-
Italy					
Campania, Caserta L.		L., Engetschwiler	7678a	60	+
Toscana, Pisa, San Rossore		L., U.	8272	40	+
Netherlands					
Beijerland, 15 km S of Rotterdam		Alston (McClure*)	7158 (111)	70	+
-		Koch	6862	ns	-
Poland					
Lubraniec, Włocławek		Wołek	8452	40	-
Piotrowice, Iława		Wołek	8451	40 (~76)	+
Szopy, Elbląg		Wołek	8450	40	+
Portugal					
Ribatejo, Coruche		Martins (Pinto da Silva)	7196	80	+
Romania					
Bucuresti, Lacul Fundeni		Nedelcu	7917	60	+
Yugoslavia					
Croatia, Zagreb, bot. Garden		Bedalowa	7421	60	+
Slovenija, Istra, Limski Kanal		Jovet	7699	60	+
AFRICA					
Angola					
Luanda, Viana		Azanco de Menezes	7452	50	+
Ghana					
Kade		Agyakwah	7323	40	+
Kenya					
Great Rift Valley, Olorgesailie		Leuthold	8618	40	+
Morocco					
Larache, Merfa Rhedira		Mathez	7651	~60	+
Senegal					
Dakar		Sanokho (Cook)	8649	40	+
South Africa					
Cape, Grahamstown, Great Fish R.		Preez (Brink)	7219a (3326)	40	-
Cape, Stellenbosch, Jonkershoek		Kruger (Vos)	7246	40	+
Cape, Stellenbosch, Jonkershoek		Kruger (Vos)	7247	40	+
Cape, Stellenbosch, Kruilsriver		Oliver (Vos)	7251	30	+
Natal, Enseleni		Venter	7347	40	+
Natal, Mbazwane		Mauve	8250 (4931)	40	-

Origin	<i>W. arrhiza</i> <i>W. columbiana</i>	collected by (sent by)	ETH No. (orig.No.)	2n	R.
South Africa (continued)					
Natal, Mzingazi L.		Venter	7365	40	+
Natal, Port Shepstone		Strey	7265	50	+
Natal, Sordwana Bay		Botha	8220	40	+
Transvaal, Albany Distr., Peddie Farm		Lubke	8390	40	+
Transvaal, Johannesburg		Lubke	7790	40	-
Transvaal, Pretoria, Rooiwal		Steijn (Taesien)	7736	40	+
Tanzania				40	-
Arusha, Amboseli		Klötzli	8639	40	+
Uganda					
Masaka		Lock (Tallantire)	7193	50	+
Ivory Coast					
Afféry		Assi	7217 (10866)	40	+
Azaguié		Assi	7215 (10865)	40	+
<i>Wolffia columbiana</i>					
NORTH AMERICA					
Canada					
Ontario					
Baptiste Creek		Stantforth (Hume)	7787	30	+
Fronterac Co., Odessa, Mud L.		Crowder	7876	30	-
Guelph		Giles	8437 (GU)	40	+
Ontario Co., Claremont		Catling, McKay (Goepfert)	7564	ns	-
Peel Co., Brampton		Catling, McKay (Goepfert)	7586	30	+
Peterborough, Bridgenorth		Giles	8439 (BN)	40	-
York Co., Ajax, Le Vay's Marsh		Sparling (Goepfert)	7578	40	-
York Co., Highland Creek		Catling, McKay (Goepfert)	7568	30	-
York Co., Whitby Marsh		Goepfert	7574	40	+
Mexico					
Hidalgo, 110 km N of Mexico City		Gigon	7662	50	+
Mexico City, Mixquic		Pineda (Rzedowski)	7306 (1001)	40	-
Mexico City, Mixquic		Pineda (Rzedowski)	7310 (1002)	50	+
Mexico City, Mixquic		Pineda (Rzedowski)	7313 (1003)	50	-
Tabasco, Villahermosa		Gigon	7654	40	+
U.S.A.					
Alabama					
Limestone Co., Beaverdam Creek		Stanley	7972	40	+
Madison Co., Indian Creek		Stanley	7978	ns	-
Arkansas					
Clark Co., Arkadelphia		L., U.	8018	50	+
Union Co., Bernice		L., U.	8026	40	-
California					
San Luis Obispo Co., Oso Flaco L.		L.	6859	ns	-
San Luis Obispo Co., Oso Flaco L.		L., U.	8143	40	-
San Luis Obispo Co., Oso Flaco L.		Gigon	7548	ns	-
Florida					
Hillsborough Co., Tampa		Webb	7781	40	+
Suwanee Co., U.S. 90		Alston (McClure*)	7155 (26)	50	+
Suwanee Co., Live Oak, U.S. 90		Hume	7823	40	+
Suwanee Co., Live Oak, U.S. 90		Hume	7826	40	+
Illinois					
Chicago, Salt Creek		Ehrlich	7804	40	+
Hancock Co., Larry Creek		Henry	7987	40	-
Hancock Co., Nauwoo		Henry	7983	40	+
Indiana					
Putnam Co., Greencastle		Welch	7353 (21534)	40	+
Vigo Co., Terra Haute		Hume	7861 (12)	40	+

Origin	<i>W. columbiana</i>	collected by (sent by)	ETH No. (orig.No.)	2n	R.
U.S.A. (continued)					
Iowa					
Dickinson Co., Emerson Bay		Hulbary	7391	30	-
Dickinson Co., Emerson Bay		Hulbary	7885	40	-
Dickinson Co., Milford		Hulbary	7388	30	+
Dickinson Co., Milford		Hulbary	7394	30	-
Kentucky					
Henderson Co., Hancock Slough		Hartowitz (Beal)	7898	40	+
Louisiana					
East Baton Rouge Par., La State Univ.		Culley	7851	40	+
East Baton Rouge Par., La State Univ.		Culley	7857	40	-
Orleans Par., New Orleans, Mississippi Delta		Hume	7833	40	+
Rapides Par., Alexandria		L., U.	8030	40	-
Vermilion Par., Pecan Island		L., U.	8046	40	-
Vermilion Par., Pecan Island		L., U.	8050	40	-
Vermilion Par., Pecan Island		L., U.	8055	40	-
Massachusetts					
Middlesex Co., Concord, Sudbury R.		Hellquist	7956	40	+
Michigan					
Ingham Co., East Lansing		McNabb	7795	40	+
Ottawa Co., Spring L.		McNabb	7907	40	+
Mississippi					
Adams Co., Natchez		Aldon (McClure*)	7153 (29)	50	+
Nebraska					
Sherman Co., Loup City, Loup R.		Kiener	6722a (29568)	40	-
New Hampshire					
Strafford Co., Durham, Mill Pond		Hellquist	7958	ns	-
New York					
Clinton Co., Wickham Marsh		Smith, Rogerson, Dean (Ogden)	7873 (49519)	40	+
Montgomery Co., Randall		Smith, Herrick (Ogden)	7786 (49290)	40 (~60)	+
Reusselaer Co., Eagle Bridge		Smith, Rogerson, Dean (Ogden)	7879 (49554)	40	+
North Carolina					
Currituck Co., Gregory		(Honda)	8530	ns	-
Dare Co., Nags Head Woods		L.	8486	40 (~60)	+
Dare Co., Kill Devil Hill		Beal (McClure*)	7121 (63)	50	+
Dare Co., Kill Devil Hill		Beal (Honda*)	8216 (63)	40	-
Orange Co., Highway 85/70		Ott	7616	50	+
Ohio					
Clark Co., South Charlestown		Roberts	7866	40 (30)	+
Coshotten Co., Blissfield		L.	8558	40	-
Holmes Co., Killbuck		L.	8564	ns	-
Holmes Co., Killbuck		L.	8569	40	-
Licking Co., Buckeye L.		Roberts	7911 (4014)	40	+
Licking Co., Burlington, Utica		Roberts	7913 (4065)	40	-
Muskingum Co., Blackrun		L.	8550	40 (~70)	-
Muskingum Co., Blackrun		L.	8554	40	-
Portage Co., Randolph		L.	8588	40	-
Portage Co., Randolph		L.	8593	40	-
Preble Co., Israel, Actor L.		Roberts	7946	ns	-
Stark Co., Bethlehem		Roberts	7930 (4098)	40	-
Summit Co., Clinton		L.	8576	40	-
Summit Co., Clinton		L.	8579	40	-
Summit Co., Norton		L.	8582	40	-
Summit Co., Springfield L.		L.	8584	40	+
Warren Co., Washington		Roberts	7949 (4260)	40	+
Oregon					
Lane Co., Junction City		Johnston	7918 (2958)	40	+
Lane Co., Junction City		Johnston	7999	40	-

Origin	<i>W. columbiana</i> <i>W. globosa</i>	collected by (sent by)	ETH No. (orig.No.)	2n	R.
U.S.A. (continued)					
Pennsylvania					
Chester Co., Longwood		L.	8605	40	-
Crawford Co., Conneaut L.		Tropea (Wohler)	8265	40	+
Lawrence Co., New Castle		L.	8596	40	+
Tennessee					
Obion Co., Reelfoot L.		Stanley	7965	40	+
Texas					
Brazoria Co., Old Ocean		L., U.	8061	40	+
Gonzales Co., Gonzales		L., U.	8085	40,80	-
Gonzales Co., Nixon		L., U.	8087	40	-
Hidalgo Co., San Manuel		L., U.	8108	40	+
Matagorda Co., Cedar Lane		L., U.	8077	40	-
Willacy Co., Raymondville		L., U.	8104	40	-
Virginia					
Northampton Co., Cape		Ott	7597	ns	-
Wisconsin					
Walworth Co., Elkhorn, Pleasant L.		Smith	7829	40	+
Walworth Co., Rice L.		Klötzli	7689	40	+
Walworth Co., Whitewater L.		Klötzli	7695	40	-
Waukesha Co., Mukwonago		Blum	7993	40	+
SOUTH AMERICA					
Argentina					
Buenos Aires, Alrededores de La Plata		Rossi (Guarrera)	7231	50	+
Buenos Aires, Arroyo Vitel, Chascomas		Verona (Guarrera)	7229	50	+
Buenos Aires, Arroyo Vitel, Chascomas		Tur	7924	50	-
Entre Rios, La Paz		Burkart (Giardelli)	7716(21132)	70 (~100)	+
Colombia					
Atlantico, Barranquilla		Dugand	7467 (7335)	50	+
Atlantico, Malambo		Dugand	7458 (7331)	ns	-
Uruguay					
Canelones, Carrasco		Rosengurtt	7286	ns	-
Venezuela					
Lara, Quibor		Tillet	7456 (7010-55)	40	+
Yaracuy, Marín		Tillet	7463 (7012-57)	50	+
<i>Wolffia globosa</i>					
NORTH AMERICA					
U.S.A.					
California					
Fresno Co., Fresno		L., U.	8152	60	+
Fresno Co., Fresno		L.	6724	ns	-
San Joaquin Co., Lockeford		L., U.	8180	60,30	+
Stanislaus Co., Knights Ferry		Nobs, Hiesey, L.	6592 (847)	60	+
AFRICA					
South Africa					
Cape, Grahamstown		Preez (Brink)	7233 (1511)	40	+
Tanzania					
Iringa, Mesangati		Greenway, Kanuri	7340 (14504)	40	+
Tanga, Bagamoyo, Mkwaja Ranch		Klötzli	8378	40	+
Zimbabwe					
Nuanetsi, Manjinji Pan		Taylor (Biegel)	7524 (176)	30	+
ASIA					
China					
Kiangsu, Nanking, Lake Sans-Souci		Herb. coll.	8341	40	+
Kwangtung, Canton		Acad. Sin.	8243	40	+

Origin	<i>W. globosa</i>	collected by (sent by)	ETH-No. (orig.No.)	2n	R.
ASIA (continued)					
Hong Kong					
New Territories, Shatin		Lau (Deans)	7234	40	+
India					
Delhi		Maheshwari, Sopori	7451	40	-
Delhi		Maheshwari, Sopori	7460	40	-
Delhi, New Delhi		Maheshwari (McClure*)	7128 (WAR)	40 (70)	+
Gujarat, Kadi		Yogi	7684	40	-
Gujarat, Kadi		Yogi	7700	40	+
Gujarat, Khaira		Yogi	7706	40	+
Rajasthan, Pushkar, Ajmer		Gopal	8343	40	+
Tamil Nadu, Pondicherry		Thanikaimoni	7370	40	-
Tamil Nadu, Pondicherry		Thanikaimoni	7411	40	+
Uttar Pradesh, Dehra Dun		Pant (Rau)	7243	40	+
Uttar Pradesh, Lucknow		Maheshwari	7319	40	-
West Bengal, Howrah, Sakrail		Banerjee	7270	40	+
West Bengal, Rajnagar		Mitra (Srinivasan)	7214 (979)	40	+
Indonesia					
Sumatra, Medan		Landolt-Stadler	8356	50	+
Japan					
Honshu, Tokyo, Adachiku		Otaki (Numata)	7428	40	+
Kyushu, Fukuoka, Mizumachi-machi		Okutomi	7183	ns	-
Malaysia					
Penang		Chaw	8245	40	+
Philippines					
Rizal, Malabor		Mendoza	7659	50	-
Rizal, Victorina Park		Mendoza	7623	50	+
Sri Lanka					
Colombo, Panumugama		Schmid	7646	40	+
Thailand					
Bangkok, Bang Khen		Youngboonkird	7207	40 (80)	+
Bangkok		Kwanymen (Honda*)	8218	40	+
Bangkok		Hillmann*	8441 (WTH)	60	+
Chiang Mai		Anusarnsunthorn (Cheke)	7664	40	+
PACIFIC OCEAN REGION					
Hawaii					
Oahu, Pearl City		Herbst	7470	60	+

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