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MS 0452

**MacDougal, Daniel Trembly, 1865-1958  
Papers, 1889-1938 (bulk 1903-1915)**

## **DESCRIPTION**

Correspondence and photographs relating to botanical and related research by Daniel T. MacDougal and other researchers at the Desert Botanical Laboratory. Correspondence with colleagues is about their research and professional associations. Photographs relate to western deserts particularly southern Arizona, the Colorado Delta, and the Salton Sea.

45 boxes, 26 linear ft.

## **RELATED MATERIAL**

Related collection at the University of Arizona, Special Collections Library, Carnegie Institution of Washington, Desert Botanical Laboratory Collection, AZ 356.

## **ACQUISITION**

Photo albums donated by D. T. MacDougal, 1957-1958. California series of photos donated by Desert Botanical Laboratory, Phoenix, 1998. Other photos donated anonymously in 1990.

## **ACCESS**

There are no restrictions on access to this collection.

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## **PROCESSING**

The collection was processed by Kim Frontz, June 1999.

## **ARRANGEMENT**

Four series: Correspondence, 1889-1927. Manuscripts, etc., 1903-1940. Photographs, ca. 1903-1932. Photograph albums, 1903-1915.

## **BIOGRAPHICAL NOTE**

Botanist and Director of Carnegie Institution, Department of Botanical Research. The department included the Desert Botanical Laboratory, established in Tucson, Arizona in 1903, and the Coastal Laboratory, established in Carmel, California in 1908. MacDougal was

born in Indiana in 1865, received a B.S. degree from DePauw University in 1890, an M.S. in 1894, and an LL.D in 1912. He also earned a M.S. degree from Purdue University in 1891 and a Ph.D. in 1897. He worked with the U.S. Dept. of Agriculture in Arizona and Idaho, 1891-1892; married Louise Fisher in 1893; was Assistant Director of the New York Botanical Garden, 1899-1905; and director of the Dept. of Botanical Research of the Carnegie Institution from 1905 to 1933.

MacDougal, along with Frederick V. Coville, chief botanist of the U.S. Dept. of Agriculture, founded the Desert Botanical Laboratory in Tucson in 1903 to research desert plant life. In 1907, MacDougal organized the Pinacate Expedition into the lava fields of Mexico accompanied by Godfrey Sykes, William T. Hornaday, Jeff Milton, and others. Another expedition, in 1912, took MacDougal and Godfrey Sykes to the Libyan Desert on camel back to investigate desert conditions.

MacDougal was internationally known in the scientific community; was a prolific author in his field; was active in numerous professional organizations; and was part of a literary and amateur theatrical group in Carmel that included writer Mary Austin. He died in Carmel, California in 1958.

### **SCOPE AND CONTENT NOTE**

Chiefly correspondence and photographs relating to MacDougal's work and his colleagues' work in the field of botany. The correspondence (29 boxes) is mostly between MacDougal, his associates at the Laboratories, and members of the national scientific communities involved in botanical and related research. Correspondents discuss their research, appointments of colleagues, and administrative issues.

There is correspondence relating to the Pinacate Expedition, 1907 (f.97), and to Salton Sea explorations, 1909-1915 (f.152). Correspondence is present from MacDougal's involvement in the formation of the Pacific Division of the American Association for the Advancement of Science, 1913. During 1917 to 1918, the correspondence is not so much about research as about World War I and the resulting lack of resources and involvement in civil defense organizations. There is correspondence relating to MacDougal's involvement with the Arizona Council of Defense and letters from R.B. von Kleinsmid (f.347) discussing the effect of the war on the University of Arizona. Most of the correspondence from 1920 to 1927 relates to MacDougal's role as secretary of the American Association for the Advancement of Science.

Correspondents within the scientific community include Joseph N. Rose, William A. Cannon, N.L. Britton, Frederic E. Clements, Burton E. Livingston, William T. Hornaday, Forrest Shreve, Francis Lloyd, W.L. Tower, Ellsworth Huntington, and many others. Other significant correspondents include Godfrey Sykes, Mary Austin, Frederick S. Dellenbaugh, Gifford Pinchot, and Charles Lummis. Correspondents of local interest include William P. Blake, Hiram Fenner, Sharlot Hall, Rev. Henri Granjon, G.E.P. Smith, George Parsons, John Spring and the Chamber of Commerce.

Photographs depict plant life in geographical areas of research including southern Arizona, Colorado Delta, Salton Sea, Mohave Desert, White Sands, N.M., and Mexico. There are photographs of researchers at work, experiments, and cacti. Although the photographs

chiefly document plant life there are some images of people, towns and other subjects; these are noted in the box and folder list. Highlights are the building of the laboratory, views of Tucson from Tumamoc Hill, the Santa Catalina Mountains, scenes of northeastern Tucson including Agua Caliente, Soldier Trail, and Tanque Verde Creek, demonstrations of extracting juice from cacti, and various Indian huts.

Note on arrangement: The correspondence is arranged by year, then within each year it is alphabetical by correspondent. In a very few cases, correspondence has been kept by subject such as f. 248 on eugenics and f. 363 on Spanish influenza. The photographs mostly follow the original order of MacDougal. There are loose photos and scrapbooks and there is some overlap. There are photographs in both series that are duplicates but there are also photographs in each series that are not duplicated.

## BOX AND FOLDER LIST

### Series 1: Correspondence, 1889-1927

#### Box 1

f.1	Letterbook, Aug. 1893 – Dec. 1896	
f.2	Letterbook, Dec. 1896 – Mar. 1897	
f.3	Letterbook, Mar. 1897 – Mar. 1899	
f.4-5	Correspondence	1889-1893

#### Box 2

f.6-12	Correspondence	1894-1898
f.13	Correspondence - Douglass, A.E.	1898-1899
f.14	Correspondence - Britton, N.L.	1898-1899

#### Box 3

f.15-20	Correspondence	1899-1902
f.21	Correspondence - Coville, Frederick H.	1902
f.22	Correspondence	1903
f.23	Correspondence – Cannon, W.A.	1903
f.24	Correspondence – Coville, F.H.	1903

#### Box 4

f.25	Correspondence – de Vries, Hugo	1903-1905
f.26	Correspondence – Forbes, Robert H.	1903
f.27	Correspondence – Sykes, Godfrey	1903
f.28	Correspondence – Chamber of Commerce (Tucson)	1903
f.29	Correspondence – Carnegie Institution	1903
f.30-31	Correspondence	1904
f.32	Correspondence – Cannon, W.A.	1904
f.33	Correspondence – Coville, F.A.	1904
f.34	Correspondence – Forbes, R.H.	1904
f.35	Correspondence – Spalding, V.M.	1904-1905
f.36	Correspondence – Sykes, Godfrey	1904
f.37	Correspondence – Carnegie Institute. Station for Experimental Evolution	1904

**Box 5**

f.38	Correspondence – A – C	1905
f.39	Correspondence – Britton, N.L.	1905
f.40	Correspondence – Cannon, W.M.	1905
f.41	Correspondence – Coville, F.H.	1905
f.42	Correspondence – Carnegie Institute, report to	1905
f.43	Correspondence – Carnegie Institute. Station for Experimental Evolution	1905
f.44	Correspondence – D – N	1905
f.45	Correspondence – Dellenbaugh, F.S.	1905
f.46	Correspondence – Livingston, Burton E.	1905
f.47-48	Correspondence – O – Z	1905
f.49	Correspondence – Sykes, Godfrey	1905

**Box 6**

f. 50	Correspondence – A – D	1906
f.51	Correspondence – Britton, N.L.	1906
f.52	Correspondence – Coville, F.H.	1906
f.53	Correspondence – Carnegie Institute. Station for Experimental Evolution	1906
f.54	Correspondence – E – K	1906
f.55	Correspondence – Jones, L.R.	1906
f.56	Correspondence – Knox, Alice C.	1906
f.57	Correspondence – L – R	1906
f.58	Correspondence – Livingston, Burton E.	1906
f.59	Correspondence – Lummis, Charles F.	1906
f.60	Correspondence – McGee, W.J.	1906
f.61	Correspondence – Pinchot, Gifford (Santa Catalina Mtns.)	1906
f.62	Correspondence – Rose, J.N.	1906
f.63	Correspondence – S – Z	1906
f.64	Correspondence – Sykes, Godfrey	1906

**Box 7**

f.65	Correspondence – A – C	1907
f.66	Correspondence – Britton, N.L.	1907
f.67	Correspondence - Cannon, W.A.	1907
f.68	Correspondence – Chamber of Commerce	1907
f.69	Correspondence – Clements, Frederic E.	1907
f.70	Correspondence – Coulter, J.M.	1907
f.71	Correspondence – D – F	1907
f.72	Correspondence – Darwin Anniversary Committee	1907
f.73	Correspondence – Dellenbaugh, F.S.	1907
f.74	Correspondence – Fenner, H.W.	1907
f.75	Correspondence – G	1907
f.76	Correspondence – Granjon, Rev. Henri	1907
f.77	Correspondence – H	1907

f.78	Correspondence – Harding, John W. (editor of Discovery)	1907
f.79	Correspondence – Hornaday, William T.	1907
f.80	Correspondence – I – L	1907
f.81	Correspondence – Knox, Alice A. (asst. Carnegie Institute, New York)	1907
f.82	Correspondence – Livingston, Burton E.	1907
f.83	Correspondence – M – N	1907

**Box 8**

f.84	Correspondence – O – P	1907
f.85	Correspondence – Phillips, John M.	1907
f.86	Correspondence – Pinchot, Gifford	1907
f.87	Correspondence – R – S	1907
f.88	Correspondence – Raasloff, H. de	1907
f.89	Correspondence – Rose, J.N.	1907
f.90	Correspondence – Shreve, Forrest	1907
f.91	Correspondence – Shull, George	1907
f.92	Correspondence – Spalding, V.M.	1907
f.93	Correspondence – Sykes, Godfrey	1907
f.94	Correspondence – T – V	1907
f.95	Correspondence – Vail, Anna M.	1907
f.96	Correspondence – W – Z	1907
f.97	Correspondence – Pinacate Expedition (incl. Jeff Milton)	1907
f.98	Correspondence – A – B	1908
f.99	Correspondence – Britton, N.L.	1908
f.100	Correspondence – Blake, W.P.	1908
f.101	Correspondence – C	1908
f.102	Correspondence – Cannon, W.A.	1908
f.103	Correspondence – Cummings, Byron	1908

**Box 9**

f.104	Correspondence – D – F	1908
f.105	Correspondence – Darwin, Francis (son of Charles Darwin)	1908
f.106	Correspondence – Davenport, Charles B. (incl. Darwin Anniversary)	1908
f.107	Correspondence – G	1908
f.108	Correspondence – H – J	1908
f.109	Correspondence – Hornaday, W.T.	1908
f.110	Correspondence – K – L	1908
f.111	Correspondence – Livingston, Burton E.	1908
f.112	Correspondence – Lloyd, Francis E.	1908
f.113	Correspondence – M – N	1908
f.114	Correspondence – O – P	1908
f.115	Correspondence – Phillips, John M.	1908
f.116	Correspondence – Pinchot, Gifford	1908
f.117	Correspondence – Q – S	1908

f.118	Correspondence – Raasloff, H. de	1908
f.119	Correspondence – Rose, J.N.	1908
f.120	Correspondence – Shreve, Forrest	1908
f.121	Correspondence – Shull, George	1908
f.122	Correspondence – Spalding, V.M.	1908
f.123	Correspondence – Sykes, Godfrey	1908

**Box 10**

f.124	Correspondence – T – V	1908
f.125	Correspondence – W – Z	1908
f.126	Correspondence – A – B	1909
f.127	Correspondence – Britton, N.L.	1909
f.128	Correspondence – C	1909
f.129	Correspondence – Cannon, W.A.	1909
f.130	Correspondence – D – F	1909
f.131	Correspondence – Dellenbaugh, F.S.	1909
f.132	Correspondence – G	1909
f.133	Correspondence – H	1909
f.134	Correspondence – Hornaday, W.T.	1909

**Box 11**

f.135	Correspondence – I – L	1909
f.136	Correspondence – Livingston, Burton E.	1909
f.137	Correspondence – Lloyd, Francis E.	1909
f.138	Correspondence – M	1909
f.139	Correspondence – McGee, W.J.	1909
f.140	Correspondence – N – P	1909
f.141	Correspondence – Phillips, John M.	1909
f.142	Correspondence – R	1909
f.143	Correspondence – S	1909
f.144	Correspondence – Shreve, Forrest	1909
f.145	Correspondence – Shull, George	1909
f.146	Correspondence – Spalding, V.M.	1909
f.147	Correspondence – Spring, John A.	1909
f.148	Correspondence – Sykes, Godfrey	1909

**Box 12**

f.149	Correspondence – T – Z	1909
f.150	Correspondence – Tower, W.L.	1909
f.151	Correspondence – Vail, Alice M.	1909
f.152	Salton Sea Correspondence, Reports, Notes, etc.	1909-1915
f.153	Correspondence – A – B	1910
f.154	Correspondence – Britton, N.L.	1910
f.155	Correspondence – C	1910
f.156	Correspondence – Cannon, W.A.	1910
f.157	Correspondence – D – F	1910
f.158	Correspondence – Dellenbaugh, F.S.	1910
f.159	Correspondence – Douglass, A.E.	1910

f.160	Correspondence – Forbes, R.H.	1910
f.161	Correspondence – G	1910
f.162	Correspondence – Ganong, W.F. (relations of botanical societies)	1910
f.163	Correspondence – H	1910
f.164	Correspondence - Hall, Sharlot M.	1910
f.165	Correspondence – J – L	1910
f.166	Correspondence – Livingston, Burton E.	1910

**Box 13**

f.167	Correspondence – M – O	1910
f.168	Correspondence - P – R	1910
f.169	Correspondence – Pierce, G.J. (Stanford U.)	1910
f.170	Correspondence – Rose, J.N.	1910
f.171	Correspondence – S	1910
f.172	Correspondence – Shull, George	1910
f.173	Correspondence – Smith, G.E.P. (rainfall Catalina Mtns.)	1910
f.174	Correspondence – T – Z	1910
f.175	Correspondence – Tower, W.L.	1910
f.176	Correspondence – A – B	1911
f.177	Correspondence – Britton, N.L.	1911
f.178	Correspondence – C	1911
f.179	Correspondence – Cannon, W.A.	1911
f.180	Correspondence – D – G	1911
f.181	Correspondence – H –J	1911

**Box 14**

f.182	Correspondence – Huntingdon, Ellsworth	1911
f.183	Correspondence – K – M	1911
f.184	Correspondence – Livingston, Burton E.	1911
f.185	Correspondence – N – R	1911
f.186	Correspondence – Rose, J.N.	1911
f.187	Correspondence – S – V	1911
f.188	Correspondence – Shull, George	1911
f.189	Correspondence – Spoer, Herman A.	1911
f.190	Correspondence – Tower, W.L.	1911
f.191	Correspondence – W – Z	1911
f.192	Correspondence – A – B	1912
f.193	Correspondence – C	1912
f.194	Correspondence – Chamber of Commerce	1912
f.195	Correspondence – D – G	1912
f.196	Correspondence – Forbes, R.H.	1912

**Box 15**

f.197	Correspondence – H –J	1912
f.198	Correspondence – K – M	1912
f.199	Correspondence – Livingston, B.E.	1912

f.200	Correspondence – N – P	1912
f.201	Correspondence – R – S	1912
f.202	Correspondence – Rose, J.N.	1912
f.203	Correspondence – Shreve, Forrest and Edith	1912
f.204	Correspondence – Sykes, Godfrey	1912
f.205	Correspondence – T – Z	1912
f.206	Correspondence – Tower, W.L.	1912
f.207	Correspondence – A – B	1913
f.208	Correspondence – Austin, Mary	1913
f.209	Correspondence – Chamber of Commerce	1913
f.210	Correspondence – D – G	1913
f.211	Correspondence – Dellenbaugh, F.S.	1913
f.212	Correspondence – H – L	1913

**Box 16**

f.213	Correspondence – Huntingdon, Ellsworth	1913
f.214	Correspondence – Lloyd, F.E.	1913
f.215	Correspondence – Livingston, Burton E.	1913
f.216	Correspondence – M – Q	1913
f.217	Correspondence – Rose, J.N.	1913
f.218	Correspondence – R – S	1913
f.219	Correspondence – Shreve, Forrest	1913
f.220	Correspondence – Sykes, Godfrey	1913
f.221	Correspondence – T – Z	1913
f.222	Correspondence – Tower, W.L.	1913
f.223	Correspondence – Establishment of Pacific Coast branch of American Association for the Advancement of Science	1913
f.224	Correspondence – A – B	1914
f.225	Correspondence – Austin, Mary	1914
f.226	Correspondence – Britton, N.L.	1914
f.227	Correspondence – C – D	1914
f.228	Correspondence – Cannon, W.A.	1914
f.229	Correspondence – Clements, F.E.	1914
f.230	Correspondence – Dellenbaugh, F.S.	1914

**Box 17**

f.231	Correspondence – E – G	1914
f.232	Correspondence – Free, Edward E.	1914
f.233	Correspondence – H – I	1914
f.234	Correspondence – Huntingdon, Ellsworth	1914
f.235	Correspondence – K – L	1914
f.236	Correspondence – Livingston, Burton E.	1914
f.237	Correspondence – Lloyd, F.E.	1914
f.238	Correspondence – Long, E.R.	1914
f.239	Correspondence – M	1914



f.240	Correspondence – N – R	1914
f.241	Correspondence – Richards, H.M.	1914
f.242	Correspondence – Rose, J.N.	1914
f.243	Correspondence – S – Z	1914
f.244	Correspondence – Shreve, Forrest & Edith	1914
f.245	Correspondence – Spoehr, Herman	1914

**Box 18**

f.246	Correspondence – Sykes, Godfrey	1914
f.247	Correspondence – Committee of One Hundred on Scientific Research	1914
f.248	Correspondence re: Eugenics	1914
f.249	Correspondence – Pacific Division. American Association for the Advancement of Science	1914
f.250	Correspondence – Pacific Division. American Association for the Advancement of Science	1914
f.251	Report on “The Plant World” (publication)	1914
f.252	Correspondence – A – C	1915
f.253	Correspondence – Britton, W.L.	1915
f.254	Correspondence – Brown, J.G.	1915
f.255	Correspondence – D – G	1915
f.256	Correspondence – Free, Edward E.	1915
f.257	Correspondence – H	1915
f.258	Correspondence – Hornaday, William T.	1915
f.259	Correspondence – Huntingdon, Ellsworth	1915

**Box 19**

f.260	Correspondence – I – K	1915
f.261	Correspondence – L – O	1915
f.262	Correspondence – P – R	1915
f.263	Correspondence – Pacific Division. American Association for the Advancement of Science	1915
f.264	Correspondence – Pacific Division. A.A.A.S.	1915
f.265	Correspondence – Richards, H.M.	1915
f.266	Correspondence – Rose, J.N.	1915
f.267	Correspondence – S	1915
f.268	Correspondence – Shreve, Forrest	1915
f.269	Correspondence – Spoehr, H.A.	1915
f.270	Correspondence – Sykes, Godfrey	1915
f.271	Correspondence – T – Z	1915
f.272	Correspondence – Tower, W.L.	1915
f.273	Correspondence – Woodward, R.S.	1915

**Box 20**

f.274	Correspondence – A – B	1916
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f.275	Correspondence – American Association for the Advancement of Science	1916
f.276	Correspondence – Austin, Mary	1916
f.277	Correspondence – Ayer, Everett E.	1916
f.278	Correspondence – Britton, N.L.	1916
f.279	Correspondence – C	1916
f.280	Correspondence – Cannon, W.A.	1916
f.281	Correspondence – Clements, F.E.	1916
f.282	Correspondence – D – F	1916
f.283	Correspondence – G – J	1916
f.284	Correspondence – Harris, J. Arthur	1916
f.285	Correspondence – Hornaday, W.T.	1916
f.286	Correspondence – Huntingdon, Ellsworth	1916
f.287	Correspondence – Johnson, D.S.	1916
f.288	Correspondence – K – L	1916
f.289	Correspondence – Livingston, Burton E.	1916
f.290	Correspondence – Lloyd, F.E.	1916
f.291	Correspondence – M	1916
f.292	Correspondence – N – O	1916

**Box 21**

f.293	Correspondence – P – Q	1916
f.294-		
296	Correspondence – Pacific Division. American Association for the Advancement of Science	1916
f.297	Correspondence – R	1916
f.298	Correspondence – Richards, H.M.	1916
f.299	Correspondence – Rose, J.N.	1916
f.300	Correspondence – S	1916
f.301	Correspondence – Shreve, Forrest and Edith	1916
f.302	Correspondence – Spoehr, H.A.	1916
f.303	Correspondence – Sykes, Godfrey	1916
f.304	Correspondence – T – Z	1916
f.305	Correspondence – Tower, W.L.	1916

**Box 22**

f.306	Correspondence – A	1917
f.307	Correspondence – American Association for the Advancement of Science	1917
f.308	Correspondence – American Philosophical Society (Desert Lab staff nominations)	1917
f.309	Correspondence – Arizona Council of Defense	1917
f.310	Correspondence – Austin, Mary	1917
f.311	Correspondence – B	1917
f.312	Correspondence – Britton, N.L.	1917
f.313	Correspondence – C	1917
f.314	Correspondence – Cannon, W.A.	1917

f.315	Correspondence – Cattell, J. McKeen	1917
f.316	Correspondence – Clements, Frederick E.	1917
f.317	Correspondence – D – E	1917
f.318	Correspondence – Dellenbaugh, F.S.	1917
f.319	Correspondence – F- G	1917
f.320	Correspondence – Free, E.E.	1917
f.321	Correspondence – H	1917
f.322	Correspondence – I-L	1917

**Box 23**

f.323	Correspondence – Johnson, Duncan S.	1917
f.324	Correspondence – Livingston, Burton E.	1917
f.325	Correspondence – M	1917
f.326	Correspondence – N- R	1917
f.327	Correspondence – Pacific Divison. A.A.A.S.	1917
f.328	Correspondence - Pacific Division. A.A.A.S.	1917
f.329	Correspondence – Richards, H.M.	1917
f.330	Correspondence – S	1917
f.331	Correspondence – Shreve, Forrest & Edith	1917
f.332	Correspondence – Spoehr, H.A.	1917
f.333	Correspondence – Sykes, Godfrey & Stanley	1917
f.334	Correspondence – T	1917
f.335	Correspondence – U-Z	1917

**Box 24**

f.336	Correspondence – A	1918
f.337	Correspondence – Arizona Council of Defense	1918
f.338	Correspondence – Austin, Mary	1918
f.339	Correspondence – B	1918
f.340	Correspondence – Britton, N.L.	1918
f.341	Correspondence – C	1918
f.342	Correspondence – Cannon, W.A.	1918
f.343	Correspondence – D-G	1918
f.344	Correspondence – Fenner, H.W.	1918
f.345	Correspondence – H	1918
f.346	Correspondence – I-L	1918
f.347	Correspondence – von Kleinsmid, R.B. (effects of WWI on U of A)	1918
f.348	Correspondence – Livingston, Burton E.	1918
f.349	Correspondence – M	1918
f.350	Correspondence – N-R	1918

**Box 25**

f.351	Correspondence – Pacific Division. AAAS	1918
f.352	Correspondence – National Research Council (John Coulter, George Hale)	1918
f.353	Correspondence – National Research Council. Office of the Botanical Raw Products Committee (E.M. East)	1918

f.354	Correspondence – Richards, H.M.	1918
f.355	Correspondence – Rose, J.N.	1918
f.356	Correspondence - S	1918
f.357	Correspondence – Shreve, Forrest	1918
f.358	Correspondence – Sykes, Godfrey & Stanley	1918
f.359	Correspondence – T-V	1918
f.360	Correspondence – Tower, W.L.	1918
f.361	Correspondence – Vorse, Mary O'Brien re: labor issues	1918
f.362	Correspondence – W-Z	1918
f.363	Correspondence re: Spanish Influenza	1918
f.364	Correspondence – A-B	1919
f.365	Correspondence – Americanization Study	1919
f.366	Correspondence – Austin, Mary	1919
f.367	Correspondence – Bovee, B.R.	1919
f.368	Correspondence – Britton, N.L.	1919
f.369	Correspondence – Buehman, Albert	1919
f.370	Correspondence – C	1919
f.371	Correspondence – Cannon, W.A.	1919
f.372	Correspondence – Cattell, J. McKeen	1919

**Box 26**

f.373	Correspondence – D-E	1919
f.374	Correspondence – Dellenbaugh, F.S.	1919
f.375	Correspondence – F	1919
f.376	Correspondence – G	1919
f.377	Correspondence – H-I	1919
f.378	Correspondence – Huntingdon, Ellsworth	1919
f.379	Correspondence – J	1919
f.380	Correspondence – K-L	1919
f.381	Correspondence – League for Constructive Immigration Legislation	1919
f.382	Correspondence – Livingston, Burton E.	1919
f.383	Correspondence – M	1919
f.384	Correspondence – N-Q	1919
f.385	Correspondence – National Research Council Arizona Council of Defense	1919
f.386	Correspondence – Pacific Division. AAAS	1919
f.387	Correspondence –Parsons, George	1919
f.388	Correspondence – R	1919
f.389	Correspondence – Richards, H.M.	1919
f.390	Correspondence – Rose, J.N.	1919

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f.391	Correspondence – S	1919
f.392	Correspondence – Shreve, Forrest	1919
f.393	Correspondence – Sykes, Godfrey & Glenton	1919
f.394	Correspondence – T-V	1919

f.395	Correspondence –Tower, W.L.	1919
f.396	Correspondence – W-Z	1919
f.397	Correspondence – American Association for the Advancement of Science (Burton Livingston)	1920
f.398	Correspondence – Scientific New Science	1920
f.399	Correspondence – General	1921
f.400- 401	Correspondence – AAAS	1921
f.402	Correspondence – AAAS re: duty-free importation of glassware	1921
f.403	Correspondence – Pacific Division. AAAS	1921
f.404	Correspondence – Southwestern Division. AAAS	1921

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f.405- 406	Correspondence – Science Service	1921
f.407	Correspondence – A-E	1922
f.408- 411	Correspondence – AAAS	1922
f.412	Correspondence – Southwestern Division. AAAS (incl. Edgar Hewett)	1922

**Box 29**

f.413	Correspondence – F	1922
f.414	Correspondence – G-L	1922
f.415	Correspondence – M-R	1922
f.416	Correspondence – S-Z	1922
f.417	Correspondence – Science Service	1922
f.418	Correspondence – Spoehr, H.A.	1922
f.419	Correspondence – Sykes, Godfrey	1922
f.420	Correspondence – General	1922
f.421	Correspondence – A.A.A.S.	1922
f.422	Correspondence – A.A.A.S.	1922
f.423	Correspondence – General	1924-1927
f.424	Photographs received as attachments to letters	

**Series 2: Manuscripts, etc., 1903-1940****Box 30**

f.425- 432	Instrument Records and Summary – Santa Barbara	1933-1938
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**Box 31**

f.433-437	Instrument records and summaries – Santa Barbara	1937-1940
f.438-442	Instrument records and summaries – Alpine Laboratory	1932-1936

**Box 32**

f.443-446	Instrument records and summaries – Alpine Laboratory	1937-1940
f.447	Field notes – Yuma, Colonia Lerdo, Salton Sea	1904-1910
f.448	Address list – Members of Pacific Div. A.A.A.S.	1913
f.449	Diary of trip: Tucson to Port Libertad	1923
f.450	Manuscripts – Cultures of Oenothera, Book 1	1903-1904

**Box 33**

f.451	Manuscripts – Cultures of Oenothera, Book 2	1904-1905
f.452	Manuscripts – Cultures of Oenothera, Book 3	1905-1907

**Series 3: Photographs, ca. 1903-1932****Subseries 1: Desert Laboratory, Cacti and experiment photos****Box 34**

f.453	Desert Laboratory – Building & construction	1903-1915
f.454	Desert Lab – 1922 Snow	1922
f.455	Desert Lab – Acclimatization shelters	1908-1910
f.456	Desert Lab – Shelter experiment garden	1909-1915
f.457	Lab quadrants	1905
f.458	Researchers at work	1906-1937
f.459	Laboratory instruments	1905-1915
f.460	Extracting juice from cacti	1903-1906
f.461	Greenhouse – interiors	1906-1938
f.462	Lab experiments	1906-1918
f.463	Soil experiments	n.d.
f.464	Photos of maps	n.d.
f.465	Cacti with parasites	1909-1911
f.466-7	Cacti – Prickly Pear	1900s-1930s
f.468	Cacti – Barrel cactus	1910-1911
f.469	Caliche	1928-1932
f.470-3	Cacti – Cholla	1904-1931
f.474-8	Cacti – Saguaros	1904-1928
f.479	Cacti in pots	1931-1932
f.480	Misc. cacti	1908-1931
f.481	Trees	1903-1935

**Box 35**

f.482 Salt River Valley 1906

**Subseries 2: Southern Arizona photos**

f.483 Agua Caliente Rd. 1908-1913  
 f.484 Antelope Mountain 1912-1914  
 f.485 Boyce-Thompson Arboreteum 1931  
 f.486 Cababi Hills 1913  
 f.487 Comobabi Mtns & Village 1913  
 f.488 Harquahala Mtn. area 1910  
 f.489 Hayne's Well 1913  
 f.490 Mesquite Mountain 1913  
 f.491 Oracle area 1916  
 f.492 Nogales area 1903-1908  
 f.493 Quijotoa region (corral) (also f. 523) 1915  
 f.494 Rillito Wash (incl. J.N. Rose and J. Thornber) 1906-1911  
 f.495 Rosemont (Santa Rita Mtns) 1910-1914  
 f.496 San Xavier Mountain 1904  
 f.497 Santa Catalina Mtns. (incl. Canada del Oro Wash) 1907-1915  
 f.498 Santa Catalina Mtns. – Bear Canyon 1910  
 f.499 Santa Catalina Mtns. – Fenner Canyon 1915  
 f.500 Santa Catalina Mtns. – Leatherwood Camp 1918  
 f.501 Mount Lemmon interior 1910-1911  
 f.502 Sta. Catalina Mtns. – Oak Camp 1910-1911  
 f.503 Sta. Catalina Mtns. – Pima Canyon (incl. Burton Livingston) 1906-1926  
 f.504 Sta. Catalina Mtns. – Sabino Canyon 1911-1913  
 f.505 Sta. Catalina Mtns. – Stratton Camp 1918  
 f.506 Sta. Catalina Mtns. – Soldier Trail 1908-1926  
 f.507 Sta. Catalina Mtns. – Ventana Canyon 1907  
 f.508 Santa Rita Mountains 1911  
 f.509 Santa Rita Range Reserve 1910-1911  
 f.510 Sells area (Indian Oasis) 1913  
 f.511 Sierritas Mountains 1906  
 f.512 Tanque Verde Mtns & Creek (incl. Martinez Ranch) 1910-1911  
 f.513 Tortolita Mountains 1908-1910  
 f.514 Tortolita Mtns. – Burro Canyon 1908  
 f.515 Tucson town scenes (windmills) 1907-1928  
 f.516 Tucson - views from Tumamoc Hill 1903-1928  
 f.517 Little Tucson area 1912  
 f.518 Tohono O'odham Indians 1915

**Box 36**

f.519 Tucson Mountains 1908-1926  
 f.520 Tucson Mountains – Robles Pass 1911-1927

f.521	Tumamoc Hill	1903-1931
f.522	Vail area – Davidson Creek, Andrade Ranch	1910-1915
f.523	Weldon Mine, Quijotoa Mtns.	1913
f.524	Misc. Southern Arizona	1907-1914

### **Subseries 3: Colorado Delta photographs, 1903-1915**

f.525	Colorado Delta – Desert plants/cacti	1905-1908
f.526	Colorado Delta – Campsites and boats	1905
f.527	Colorado Delta – Bay San Felipe	1904-1913
f.528	Colorado Delta – Cocopah Mtns.	1905
f.529	Colorado Delta – Cocopah Indians, homes	1905-1907
f.530	Colorado Delta – Colonia Lerdo	1904-1907
f.531	Colorado Delta – Colo. River/Grand Canyon	1903
f.532	Colorado Delta – Colo. River Great Curve	1904
f.533	Colorado Delta – Colo. River near Mellon	1905
f.534	Colorado Delta – Misc. river views	1904-1905
f.535	Colorado Delta – Ehrenberg, Kingman, Bill Williams River, ferry	1905-1910
f.536	Colorado Delta – Hardy River	1904-1905
f.537	Colorado Delta – Laguna Maquata	1907
f.538	Colorado Delta – Mohave River fault	1915
f.539	Colorado Delta – Saline plain, mud volcanoes	1905
f.540	Colorado Delta – Volcanoes	1904-1905
f.541	Colorado Delta – Volcano Lake	1904-1905
f.542	Colorado Delta – Yuma town scenes	1904-1905

### **Subseries 4: California photographs, 1910-1933**

f.543	California – Laboratory	1910
f.544	California – Dendrographs	1931-1933
f.545	California – Tree ring segments	1932-1933
f.546	California – Redwoods	1931-1932
f.547-9	California – Redwoods and dendrographs	1928-1932
f.550-1	California – Pines	1916-1932

### **Box 37**

f.552-6	California – Pines with dendrographs	1918-1933
f.557	California - Chuckawalla Well	1910
f.558	California – Julian, Witch Creek, Banner	1907

### **Subseries 5: Salton Sea photographs, 1906-1916**

f.559	Salton Sea - General	1906-1913
f.560	Salton Sea - Alamo River	1916
f.561	Salton Sea - Big Islands	1909-1912
f.562	Salton Sea - Carrizo District	1907-1913
f.563	Salton Sea – Cohuilla Pass	1913



f.563b	Salton Sea – Cohuilla Indian granary	1907
f.564	Salton Sea – Cormorant Island	1916
f.565	Salton Sea – Fig Tree Well	1910-1915
f.566	Salton Sea – Imperial Junction	1911-1914
f.567	Salton Sea – Indio, Calif.	1903
f.568	Salton Sea – Mecca, Calif.	1907-1912
f.569	Salton Sea – New River	1907-1916
f.570	Salton Sea – Old Beach	1907-1909
f.571	Salton Sea – Penguin Island	1908
f.572	Salton Sea – Obsidian Island	1908-1916
f.573	Salton Sea – Salt Creek	1908
f.574	Salton Sea – Salton Slough	1908-1910
f.575	Salton Sea – San Gorgomo Pass	1912-1913
f.576	Salton Sea – San Jacinto	1913-1914
f.577	Salton Sea – So. Archipelago	1908-1909
f.578	Salton Sea – Travertine Inscriptions	1914-1915
f.579	Salton Sea – Travertine	1916-1907
f.580-5	Salton Sea – Travertine Terrace	1906-1916
f.586-7	Salton Sea – Tule Wash	1916

### Box 38

#### Subseries 6: Mohave Desert photos, 1912-1914

f.588	Mohave Desert – near Willow Springs	1912
f.589	Mohave Desert – May 1913	1913
f.590	Mohave Desert – near Barstow	1914
f.591	Mohave Desert – near Victorville	1914
f.592	Mohave Desert – near Rodriguez Lake	1914
f.593	Mohave Desert – near Rodriguez Lake	1915

#### Subseries 7: Great Basin photos, 1906

f.594	Great Basin – Nevada	1906
f.595	Great Basin – Las Vegas, NV (incl. adobe home, mesquite corral, boys branding calf)	1906
f.596	Great Basin – Utah (Lakeside)	1906

#### Subseries 8: White Sands, N.M. photos, 1903-1911

f.597	White Sands, N.M. – people, vehicles	1903-1911
f.598	White Sands, N.M. – plants	1903-1911
f.599	White Sands, N.M. – pillars of sand	1903-1911
f.600	White Sands, N.M. – Otero Basin	1903-1911
f.601	White Sands, N.M. – Western & Salt Lakes	1903-1911

#### Subseries 9: Mexico photographs, 1903-1907, 1923

f.602	Mexico – Cacti	1906
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f.603	Mexico – Excavation, Chapultepec	1906
f.604	Mexico – Guaymas, Sonora	1903
f.605	Mexico – Port Libertad trip	1923
f.606	Mexico – Mexico City	1906
f.607	Mexico – Oaxaca to Mitla	1906
f.608	Mexico – Pinacate Mtns.	1907
f.609	Mexico – Torres, Sonora (incl. ranch home and family)	1903
f.610	Mexico – Torres, Sonora – Yaqui hut	1903
f.611-2	Mexico – Tehuacan – homes, people, cacti	1906
f.613	Mexico – Tourellin	1906

### Subseries 10: Sudan photographs, 1912

f.614	Kamabsau, Sudan	1912
f.615	Port Sudan	1912
f.616	Seukat, Sudan	1912
f.617	Suakim, Sudan	1912
f.618	Talgwareb, Sudan	1912
f.619	Sudan – Other	1912
f.620	Baharia, Egypt	1912

## Box 39

### Series 4: Photograph albums, 1903-1915

*Note: Many images in the photo albums are identical to the images in the preceding files.*

f.621	Photo album pages, p. 1-47 of album A (Includes Desert Botanical Laboratory, Tumamoc Hill, Stanley Sykes getting water from a barrel cactus, Coahuila, Cocopah, and Yaqui Indian homes and granaries, northern Nevada, White Sands, N.M., Salton Basin, Colorado River)	1904-1906
f.622	Photo album pages, p. 48-77 of album A (Includes Mexico, San Felipe Bay, Baja California, Puebla and Tehuacan, Mexico)	1904-1906
f.623	Photo album pages, p. 1-30 of album B (Includes Sabino Canyon flooding, Tortolita Mountains, Harqua Hala Mountains, Grand Canyon Bright Angel Trail and Indian Gardens and Colorado River)	1903-1915
f.624	Photo album pages, p. 31-77 (Includes Hardy River, Colorado River, Volcano Lake, Colonia Lerdo)	1904-1907
f.625	Photo album pages, p. 78-112 (Mostly Nevada)	1906-1912

**Box 40**

f.626-  
628 Photo album pages, p. 1-90 of album C 1906-1909  
Salton basin

**Box 41**

f.629-  
631 Photo album pages, p. 91-195 of album C 1906-1909  
Salton basin (one photo of William P.Blake)

**Box 42**

Photograph album of Egypt trip by McDougal 1912  
and Godfrey Sykes, incl. camels, palms and sands

**Box 43**

Photograph album chiefly vegetation of outlying 1909-1913  
Tucson area including southeast of Vail, Sabino  
Canyon, gila monsters, Tortolita Mountains, Tanque  
Verde Creek, Santa Rita Mountains, Robles Pass, and  
Rillito Wash

**Box 44**

Photograph album chiefly vegetation of White 1906-1911  
Sands, N.M., and Tehuacan, Tourellin, and Oaxaca, Mexico

**Box 45**

Photograph album including Tumamoc Hill, 1903-1911  
exteriors and interiors of Desert Carnegie Lab, views  
from lab, cactus and vegetation, Comobabi Village,  
Weldon Mine of Quijotoa Mountains, Tohono  
O'odham house and grave near Little Tucson, adobe  
and mesquite home and corral, view of Tucson and  
Tumamoc from ne corner of Park & 2<sup>nd</sup>, Pinacate  
Mountain expedition incl. Milton, Hornaday, and group,  
Sonoyta River, and Baja California.