

BOTANICAL JOURNEYS OF HARVEY MONROE HALL

1895 -- 1931

The following record is based upon Dr. Hall's field note books which have been reviewed by Mrs. Carlotta Hall to whom we are indebted for her painstaking efforts to make the record complete. It is interesting to note that up to 1913, a period of eighteen years, the motive power used in these expeditions was mainly horses supplemented more or less by railroad trains; after 1913 an automobile was used whenever possible. General collecting was done in the earlier years and will be understood as having been done except when special plant groups or other types of botanical work are mentioned.

- 1895, Apr. 19-22. Edgar Canon expedition: from Riverside to San Bernardino Mts., alone with horse and cart, starting at 2 a.m. -- July 22-27, Smith Mt. expedition. -- Aug. 2-15, Swartout Canon expedition: Sierra Madre Mts., accompanied by his brother, George Hall. -- During summer, around Riverside: Sugar Loaf, Box Spring Mt., Sycamore Canon, Fuchsia Canon, often accompanied by Ed. Heller.
- 1896, July 30 - Aug. 8. Sierra Madre Mts.: Swartout Canon, accompanied by his mother, Mrs. Martha Hall.
- 1897-99. Numerous trips to San Jacinto Mt.
- 1900, June - Aug. Sierra Nevada: Fresno Co.; Ockenden to Tehipite Valley; Ockenden to Mt. Goddard via Black Mt., and Blainey Meadows; accompanied by H. P. Chandler and E. B. Babcock (See Bot. Gaz. 31: 391) -- Fresno, Wawona, Yosemite Valley, Coulterville, with horse and cart, accompanied by E. B. Babcock.
- 1901, summer. Western Colorado desert and region of San Jacinto Mt., in company with W. L. Jepson. (See Bot. Gaz., 32: 155)
- 1902, early summer. Southern California: Riverside and vicinity; Coyote Canon and San Jacinto Mt.; Santa Monica region; Antelope Valley; Santa Barbara. -- Mid-summer. Middle Sierra Nevada: From Berkeley via Ward's Ferry to Hetch Hetchy Valley; via Hog Ranch to Hazel Green and Merced Grove of Big Trees; Yosemite Valley; Tuolumne Meadows; Mt. Lyall; Mt. Dana; Mt. Gibbs; accompanied by E. B. Babcock.
- 1903, April. Sierra Madre foothills; Los Angeles to coast at Playa del Rey; around Riverside, Box Spring Mt., Sugar Loaf, Pleasant Canon, Peche Canon; San Diego (Brandegge Herbarium), to Poway, Ramona, Foster, Bostonia, Sweetwater Dam, Chula Vista, Tia Juana. -- May-Aug. Northern Sierra Nevada: upper Sacramento Valley almost to Oregon line; around Mt. Shasta; into western Modoc Co.; southwest to and around Mt. Lassen; southeast to Sierra Valley and Donner Lake; accompanied by E. B. Babcock. -- Donner Lakes to Lake Takoe; around eastern side of Lake Tahoe (no road part of way); Alpine Co.; Calaveras Co.; accompanied by H. P. Chandler.
- 1904, summer. Southern Sierra Nevada: Visalia to Greenhorn Mts., and Kernville: Cannel Meadows; Olancho Peak; Jordan Hot Springs; over Toowa Range to Volcano Creek; Mineral King; Kern Flat; Volcano Meadows; Cirque and Denel's

- and Mt. Whitney Peaks; Kern Canon to Mineral King region; Sawtooth Peak; Three Rivers; Visalia; accompanied by H. D. Babcock.
- 1905, Apr. 12 - May 21. Desert trip, mostly alone: Riverside to Indian Wells via Banning, Whitewater, Palm Springs, Marshall Ranch, Coachella, Mecca, Dos Palms, Canon Springs, Chuckawalla Bench, Tin Can Spring, Chuckawalla Spring, Mule Springs and Palo Verde; Coachella; Chilcoot Pass (San Bernardino Mts.) to Cottonwood Springs; Virginia Dale, Amboy, Bagdad, Barstow; Cajon Pass; Riverside. -- June 9 - 28. Ventura Co., mostly alone: Riverside, San Fernando, Newhall, San Francisquito Ranch; Elizabeth Lake; Fairmont, Neenach, Gorman, Fort Tejon, Cuddy Ranch; Frazier Borax Mine; Seymour Creek base camp; Mt. Pinos district; Frazier Mt.; Alamos, Griffin, Riverside.
- 1906, May - June. Mojave Desert and Inyo Co.: Riverside to home of S. B. Parish near San Bernardino ("where Mr. Parish's saddle and Mrs. Parish's jam and fruit cake were added to the outfit"); Cajon Pass; Victorville and vicinity; Rabbit Springs; Dead Man's Point, Ords, Daggett, Barstow; Johannesburg, Searles, Ballarat; Panamint Canon to summit and edge of Death Valley; Darwin, Keeler, Lone Pine, Independence, Big Pine, Bishop; Haiwee Meadows; Coyote Holes; Red Rock Canon, Mojave Sta., Roasmond, Lancaster, Newhall, Los Angeles.
- 1907, May. Southern coastal region: May 11-13, vicinity of San Luis Obispo. May 14-17, around Los Angeles (ornamentals). May 18-26, Santa Inez and San Rafael Mts.: over Santa Inez Mts., via Cold Spring Trail to Mono Flat, Mono Creek, Loma Paloma and Indian Creek; Roble Canon; Pine Mt.; Matilija Canon and Springs; Santa Inez; Tunnel Trail to Santa Barbara; accompanied by B. Mowry, packer, and H. Ackerman. -- May 26-30, exotic flora of Santa Barbara.
- 1908, July 1 - Aug. 18. Southern Sierra Nevada: with team and light wagon from Riverside to Porterville via Inglewood, San Francisquito Canon, Tejon Pass; Springville, Wishan Camp, Kern River Basin; pack trip up Hassack Creek to Click Meadow, 7000 ft.; Little Kern, Trout Meadow, Kern Flats; Jordan Hot Springs, Red Rock Meadow; over Toowa Range to Ramshaw, Hedgehog Meadow, Golden Trout Creek to Natural Bridge and back to Hedgehog Meadow; Whitney Meadow, Siberian Outpost, Rock Creek; Guyot Divide, Mt. Guyot, Crabtree Meadow; Dean Trail to Junction Meadow; Kern Canon to Lower Funston, Trout Meadow, Burnt Corral, Lyon Meadow, Quinn, Horse Camp, Hackett Meadows; South Fork Kaweah, Middle Fork Tule, Springville; Fresno, Berkeley; accompanied by George R. Hall.
- 1909, June. Marin Co.: Tiburon, Lagunitas, Inverness; Mt. Vision; Tomales Bay region. -- July. Trinity Co.: Salmon River Mts.; Dorleska; Coffee Creek; Boulder Creek.
- 1910, summer. Middle Sierra Nevada: Cisco, Fordyce and vicinity to Donner Lake; during July in Lake Tahoe region; Fallen Leaf Lake, Maggie's Peak and country west; Mt. Tallac; Desolation Valley; Angora Peak; accompanied by Mrs. Carlotta Hall and George R. Hall.
- 1911, June - July. Yosemite region, "Rounding up" for the Flora, mostly in company with Mrs. Hall: Foothills to the Valley -- Bagly, Mt. Bullion,

- Bear Valley, Darrah, Mariposa, Mormon Bar, Jerseydale, Sweetwater, Snyder Gulch, Hite's Cove, El Portal; from the Valley to Hazel Green, Sawmill Mt., Crockers, Hog Ranch road, Big Oak Flat road; Little Yosemite and Cloud's Rest; Glacier Point and beyond; Wawona and Mariposa Big Trees; north rim of the Valley, El Capitan, Eagle Peak, Snow Creek.
- 1912, June - Aug. Northern Sierra Nevada, Plumas Co., accompanied by Mrs. Hall: June 25 - July 1, Nelson Point to Quincy, Butterfly Valley, Meadow Valley, Spanish Peak, Snake Lake Valley, Nelson Point; July 6-14 (packing trip with Mr. and Mrs. Harry Wilder) Long Lake, ascended Mt. Elwell; Aug. 3-5, Quincy.
- 1913, May - June. By automobile on coast highway, Berkeley to San Diego, botanizing en route especially in Santiago Canon, Orange Co.; San Diego to Campo; accompanied by Mrs. Hall. -- July. Alone to Mendocino Co.; Mill Creek Canon, around Carl Purdy's gardens; Potter Valley; Lake Co., Mt. Sanhedrin, Mt. Hull, Elk Mt., Cobb Mt., the lake district. -- Autumn. Accompanied International Phytogeographic Expedition to Yosemite Valley and Wawona.
- 1913, Dec. - July, 1914. First eastern trip which was of great importance to Hall: Tucson (guest of Dr. and Mrs. F. E. Clements); stopped to botanize at many stations en route through the South; A.A.A.S. meeting at Atlanta, representing University of California; herbarium work especially on Madieae at Washington, New York, Cambridge; personal interviews with Coville, Hitchcock, Piper, Swingle, L. O. Howard, G. K. Gilbert, Dr. and Mrs. C. Hart Merriam, Dr. and Mrs. Brittan, Dr. Rose, E. L. Greene, B. L. Robinson, Vernon Bailey, Graham Bell, Edmund Heller, and others.
- 1914, July 14 - Aug. 6. Northern Sierra Nevada, accompanied by Mrs. Hall: Berkeley, Chico, Paradise, Humboldt road to Jonesville; through foothills via Oroville, San Andreas, Angels' Camp, Sonora, Oakdale, Berkeley. Field studies of Madieae.
- 1915, May. San Benito and Monterey Counties to the Sierras, accompanied by Mrs. Hall: San Benito River, Hepsedam Peak, Pecacho Peaks, Gabilan Range, Pinnacles; Jolon by auto, wagon and trail to Lucia on the coast (Santa Lucia fir!); by auto across San Joaquin Valley to Jerseydale; thence by horse and trail, accompanied by Dr. and Mrs. Elmer E. Hall, to Wawona, Mariposa Big Trees, Glacier Point, Yosemite, El Portal, Hite's Cove, Jerseydale; auto to Berkeley. -- July 28. Monterey. Carmel Valley, Jamesburg; by horse up Tassajara road to summit and down Miller Canon; accompanied by Mrs. Hall. -- Aug. 12. Alone, around San Francisco Bay for Hemizonia; Napa Co., Howell Mt.
- 1916, May 30-31. Mt. Diablo, Corral Hollow. -- June. Placer Co., Auburn, Applegate, Colfax; Nevada Co., Banner Hill, Grass Valley, Colfax Hill, You Bet, Chicago Park, Nevada City, Rough and Ready; accompanied by F. M. Essig. -- July. Alone, collecting Madieae; Belmont, Palo Alto, San Mateo; Petaluma road, Tocoloma, Tomales Bay district, Dillon's Beach; Yolo Co.; Colusa Co., Vacaville; Davis.
- 1917, May. Sacramento Valley for Madieae, accompanied in part by Mrs. Hall and their one-year-old daughter: Benicia, Colusa, Williams; Chico, Kieffer ridge, Honey Run grade, west fork Feather River, Humboldt road, Iron Canon.

- June. Alone on Chrysothamnus survey: California, Truckee, Boca; Nevada, Reno, Pyramid Lake; Utah, Ogden; Colorado, Gilpin Co., Tolland, Boulder Park, Denver, Pike's Peak.
1918. This year was devoted largely to field trips either alone or in company with Dr. and Mrs. F. E. Clements, in California, Oregon, Idaho, Wyoming, Nevada, Utah, Colorado and New Mexico. The chief objects being (1) rubber-plant survey; (2) hay-fever plant survey; (3) transplant experiments. Also much collecting was done. California: Lancaster, Antelope Valley, Elizabeth Lake, Claremont, Banning, Whitewater, San Jacinto Mt., Kearsarge, Benton, Owen's Valley; Truckee River canon; Mono Lake, Levining Creek, Tioga, Bridgeport, Walker Canon; Honey Lake, Long Valley via Cedarville, Mt. Bidwell, Hamilton City; Barstow, Victorville, Dead Man's Point, Cajon Pass, Hesperia, Riverside; El Campo, San Diego Co.; sand dunes, Ventura Co.; Mt. Hamilton. -- Oregon: Ashland, Medford. Grants's Pass, Willamette Valley, Eugene, Portland. -- Idaho: Caldwell, Boise. -- Wyoming: Rawlins, Laramie. -- Nevada: Reno, Winnemucca, Minden, Carson, Pyramid Lake, Caliente, Las Vegas, Goldfields, Lida. -- Utah: Green River, Woodside, Stockton Lake, Toole Valley, Lund, Logan. -- Colorado: Marshall Pass, Gunnison, Jola, Trouthaven, Grand Junction, Colorado Springs, Trinidad. -- New Mexico: Vermejo Park.
- 1919, spring. California: San Joaquin Valley, Tehachapi, Mojave Desert, San Bernardino. Trips from San Bernardino with Mr. and Mrs. S. B. Parish to some of his type localities. -- Summer. Oregon, Idaho, Wyoming, to Colorado, Pike's Peak; with Dr. and Mrs. F. E. Clements; collected Haplopappus, Artemisia, Chrysothamnus, Atriplex; special work on rubber plants including Asclepias; transplant experiments. -- Autumn. Southern California for Atriplex and Artemisia; accompanied by Mrs. Hall.
- 1920, June - July. California: plains and foothills of Sacramento and San Joaquin Valleys for Atriplex, Chrysothamnus, Artemisia, Haplopappus and Madiaeae. -- July - Sept. Nevada, Utah, Colorado, especially around Canon City in some of Brandegee's type localities; collecting and transplant experiments. Return trip with Dr. and Mrs. Clements south through Colorado, northern New Mexico and Arizona, Grand Canon, to Bard and San Diego Co.; north via Orange Co., to Berkeley. -- Oct.-Dec. Herbarium work at Cambridge, New York and Washington; Carnegie Institution meetings.
- 1921, April. California: Lower Sacramento Valley and foothills for special plants. -- June 27-30. Berkeley to Sly Park, El Dorado Co.; via Tahoe to Donner Lake; via Auburn to Berkeley; accompanied by Mrs. Hall. -- July. Colorado: Pike's Peak, transplant work. -- Aug.-Sept. with Dr. and Mrs. Clements through Utah, Montana, Idaho, Washington, Oregon, northeastern California, Nevada, eastern California via Benton and Tioga Pass; part of time alone for intensive collecting; specimens from over fifty stations. -- Oct. 11-16. With Dr. H. C. Severin, who is familiar with distribution of Atriplex through work on beet leaf-hopper, down west side San Joaquin Valley close to hills to south of Bakersfield with side trip to Big Chalome region. -- Dec. 18-28. Nevada: Gerlach, Fallon, Reno for special plants.
- 1922, May 6-7. Mt. Diablo, eastern flank. -- June - July. Beginning of transplant experiments at Mather, Tuolumne Co., and along Tioga Road to Tioga Pass; H. L. Mason, assistant. -- Aug. Benton, Mono Mills, Walker River and Kit Carson Pass; back to Tuolumne Meadows. -- Dec. 6. Antelope Valley.

- 1923, Feb. San Francisco south to Pigeon Point; coastal transplant station selected at Montara. -- May. Foothills of Stanislaus Co. -- July - Sept. 30. Transplant work and collecting: Mather; Tioga Road; Mono Mills to Benton; Mammoth, Devil's Post Pile, Punice Valley, Tioga Pass, Mather. -- Oct. Mt. Diablo, north and east sides; Stockton region; Sacramento region; Vacaville, Lakeport, Kelseyville; Howell Mt.; Calistoga; Mt. St. Helena; mostly for Hemizonia.
- 1924, July. Northern California, Oregon and Washington, expecting to work in eastern Washington and southern Idaho; because of extreme drouth worked in central Washington and Oregon and northwestern California. Important stations: Corning, Calif.; Dead Indian Valley, Eugene and McKenzie Pass, Ore.; Bingen, Wash., with Suksdorf; Yakima, Wash.; Gasquet, Del Norte Co., Calif.; Orris Spring road, Mendocino Co., Calif. accompanied and assisted by Mrs. Hall. -- Sept. Transplant work at Mather and Tuolumne Meadows; H. L. Mason, Assistant.
- 1925, Jan. - July. Europe, accompanied by Mrs. Hall and daughter, Martha, and part of the time by Prof. and Mrs. E. B. Babcock. Studied in herbaria and botanic gardens at Montpellier, La Mortola, Villa Thuret, Marseilles, Geneva, Munich, Vienna, Berlin, Copenhagen, London, Kew, Cambridge; visited John Innes Horticultural Institution at Merton; also Monaco to inspect the aquarium as he was then on the council of the California Academy of Science; studied the truffle industry at Carpentras, France; visited Landskrona, Sweden, to see the work of Turesson. -- Aug. 5-12. Transplant experiments at Mather. -- Aug. 12 - Sept. 6. Field studies and collecting, especially Haplopappus from Mather via Walker River through central and northern Nevada, into southeastern Oregon and northwestern California via Honey Lake Valley to Steamboat Springs, Nev., Bridgeport, Calif., Tuolumne Meadows to Mather; accompanied by A. R. Barham and most of the way by E. B. Babcock.
- 1926, Jan. Southern California mainly for Haplopappus. -- May - Aug. Transplant work at Mather, Tioga Road and Tuolumne Meadows. System of reciprocal transplants discontinued and new transplant gardens started at Mather. -- Sept. Monterey Co., to San Diego Co., and in Mexico through Lower California to Santo Tomas; accompanied by D. D. Keck.
- 1927, June - Sept. Transplant work at Mather and visit to Chrysothamnus enclosure at Benton. -- Oct. San Diego Co., especially for Haplopappus.
- 1927, Dec. - Dec. 1928. Europe, accompanied by Mrs. Hall and Martha. Largely herbarium studies at Paris, Geneva, Kew, Lyon, Dijon, Villa Thuret, Marseilles, Toulon, Florence, Naples, Turin, Munich, Vienna, Berlin, Leyden, Copenhagen; also visited Pasteur Institute, biological laboratories in Naples, Jardin Alpin de Pont de Nant at (Vallais?) Switzerland, and Turesson's experiments at Lund, Sweden; transplant experiments of Marsden-Jones and Turrill at Potterne, England; transplant experiments of Daniel at Rennes, France; and experiments of Prof. P. Lesage on accumulative effect of environment on plants. Inspection trips to National Park of Switzerland; Gran Paradiso and Abruzzi National Parks in Italy; and the Meijendel Reserve in Holland. Collected plants in France: Côte d'Or; between Marseille and Aix; Esterel with Dr. Poirault; Pont du Gard; Mont Verdun near Lyon; in Switzerland: Mer de Glace, Mont Blanc; alpine valley of Grimsel; Geltsch to base of Rhone glacier; Selève; in Italy: Gran Paradiso National Park; Grand St. Bernard.

- 1929, July. Transplant work at Mather, Tuolumne Meadows, Benton, Slate Creek with W. M. Heusi, assistant. -- South coast ranges: Palo Alto, McKittrick Road, Bakersfield, Poso, Tehachapi, Palos Verdes, San Pedro, Warner's Ranch, San Diego Co.; mainly for *Potentilla* and *Zauschneria*, accompanied by W. M. Heusi.
- 1930, June. Mostly at Mather for transplant work; one trip to foothills west of Stockton and lowlands east of Stockton. -- July. Sierran foothills; Mather, Bass Lake, Pine Ridge Road, Dinky Road, Markwood Meadows, Shaver Lake, Ockenden, Mineral King, Wood Lake, La Grange; for *Zauschneria*, *Potentilla* and *Hemizonia*; accompanied by W. M. Heusi. -- Aug. Mather to Palo Alto via Mokelumne Hill, Jackson, Ione, Buena Vista, San Andreas, Jenny Lind, Coloma; Placerville Road, Pilot Hill, Auburn; Grass Valley Road; Oroville; Humboldt Road; Chico; mainly for *Hemizonia*. -- Sept. 24 - Oct. 2. Mt. Diablo to Rogue River, Ore.; Crescent City, Del Norte Co.; Weaverville, Trinity Co.; Laytonville and Round Valley; Lake Co.; mainly for *Madieae*; accompanied by W. M. Heusi. -- Oct. Contra Costa Co., to San Diego Co., here and there; collecting seeds of *Hemizonia*.
- 1931, April. Plains around San Bernardino. -- May 8. Palo Alto to Coalinga and Kettleman Hills for *Hemizonia*. -- May 19. Santa Clara Co., Loma Prieta, Loma Chiquita; for *Madieae*. -- May 25. Marin, Sonoma and Napa Counties; for *Madieae*. -- June. Palo Alto to Carmel Valley, Poloma Canon, Gaviota Pass, Santa Inez Valley, San Luis Obispo, Morro, San Simeon Bay, Jolon Valley, San Benito Valley; with many digressions studying forms of *Hemizonia*. -- July - Sept. Mather as headquarters. -- July 9-10. Pack trip to Hetch Hetchy, Beehive, Wilmer Lake, Stubblefield Canon, Kerrick Canon, Seavy Pass, Benson Lake, Pate Valley, Harden Lake, White Wolf; accompanied by Martha Hall. -- Aug. 6-14. Auto trip to Salinas Valley; Santa Lucia Mt.; Atascadero, Avila, Gaviota Pass, Lompoc; Carmel Valley; Point Sur; Post's, Santa Clara Co. -- Sept. Pack trip up Tuolumne Canon through Pate Valley, Glen Elum to Tuolumne Meadows, Tioga Mine, Slate Creek (timberline transplant station); Mt. Conness; Tioga Peak; accompanied by Mrs. Hall and Martha. -- Oct. 9-11. Alone by auto from Palo Alto to Salinas Valley for seeds of *Hemizonia*. -- Oct. 24-? Alone by auto in southern San Francisco Bay region and via Petaluma to Bodega Bay for seeds of *Hemizonia*. -- Nov. 28-29. Alone by auto from San Bernardino to Box Springs, Perris, Elsinore, Temecula and San Jacinto.

Note. - Much of the field work done by Hall during the latter years of his life consisted of detailed studies on the genera in which he was especially interested. No pains were spared in working out the problems of distribution of species and forms. In many cases extensive statistical data were obtained on variation in critical characters. Most of the trips made in late autumn, especially in the last years, were for the purpose of collecting seeds of these special groups of plants, particularly *Madia*, *Laya* and *Hemizonia*.

Finally, it is an interesting coincidence that Hall's first and last botanical trips were made from Riverside, travelling alone. But on his first trip he went by horse and cart to the San Bernardino Mts.; while on his last trip he travelled by automobile to San Jacinto. This last trip was made just before his departure by train for Washington, D.C.