

Eponymy of New Mexico Grass Names

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Approximately 400 species of grasses occur in New Mexico (Roalson & Allred 1995). More than 75 of them bear a personal name, that of an explorer, a benefactor, a prominent scientist or naturalist, a friend, or the collector. In great measure, the history of botany in New Mexico and the American west is told by the stories of these people honored in the names of the state's grasses. The early years of exploration of an expanding United States are revealed in the stories of Bigelow, Fendler, James, Parry, and Wright. The European origin of much of our botanical science, is reflected in the lives of Boutelou, Lindheimer, Reverchon, Roemer, and Schaffner. The scientist-patrons whose careers greatly benefited from the gathering of exotic western grasses, come to mind in Gray, Grisebach, Hackel, Hooker, and Torrey. And the names Scribner, Stebbins, Swallen, and Vasey are familiar to us from their prodigious contributions to the study of grass systematics. Oddly, only two residents of New Mexico are found on our list, O.B. Metcalfe and H. Wayne Springfield. Indeed, many of our honorees never set foot inside New Mexico, their association with the Land of Enchantment being limited to the grasses bearing their names. [As an aside, it is interesting to note that no scientific names of grasses celebrate the preeminent botanist of the state, E.O. Wootton (1865-1945), despite his colossal contributions to western American botany. He is remembered, however, by the vernacular "Wootton's threawn" for *Aristida pansa* Woot. & Standl., and by the scientific names of at least twenty non-grass plants (Allred 1990).]

The persons commemorated by New Mexico grass eponyms are listed below in alphabetical order by surname, followed by a brief biographical sketch that emphasizes their contribution to agrostology and botany. The eponyms are listed by basionym, with current nomenclature indicated in brackets following an equals sign.

Arsène, Frère (or Brother) **Gustave** (also Gerfroy)

[secular name: Arsene Gustave Joseph Brouard]
(1867-1938).

French clergyman-botanist and professor at Sacred Heart Training College at Las Vegas, New Mexico; extensive collections in the Las Vegas area, as well as Mexico, Central America, and France.

Muhlenbergia arsenei A.S. Hitchc.

Baker, Charles Fuller (1872-1927).

Botanist, entomologist, teacher, and administrator at the Colorado Agricultural Experiment Station in Fort Collins; collected in Colorado, northern New Mexico (Aztec and Chama in 1899), California, Cuba, and the Philippines; many of his Colorado and New Mexico novelties were published by E.L. Greene in *Plantae Bakerianae*.

Agropyron bakeri E. Nels. [=Elymus bakeri (E.Nels.) Löve]

Barrelieri, Jacque (1606-1673).

French medical botanist and author of a work on the plants of France, Spain, and Italy.

Eragrostis barrelieri Daveau

Beckmann, Johann (1739-1811).

German botanist and author of a botanical lexicon.

Beckmannia

Bélanger, Charles Paulus (1805-1881).

French botanist who was very active in the Old World but never collected in the New; the grass *Hilaria belangeri* was inadvertently named after Bélanger by Steudel, instead of after Jean Louis Berlandier who collected the plant in Mexico.

Antheplora belangeri Steudel [=Hilaria belangeri (Steud.) Nash]

Bertero, Carlo Giuseppe (1789-1831).

Italian botanist and explorer who traveled to the West Indies and settled in Chile; lost at sea on a return voyage from Tahiti.

Tragus berteronianus Schult.

Bigelow, John Milton (1804-1878).

Botanist and U.S. Army surgeon; Surgeon and Botanist for the U.S.-Mexican Boundary Survey (1850-1853) and then joined Lieutenant A.W. Whipple's Pacific Railroad Expedition (1853-1855); made numerous collections east of Albuquerque in autumn 1853, some from the Sandia Mountains; described the vegetation in his *Report on the botany of the expedition...* (1856).

Eremochloe bigelovii S. Watson
[=*Blepharidachne bigelovii* (S. Wats.) Hackel]
Poa bigelovii Vasey & Scribn.

Bladh, Peter Johan (1746-1816).

Finnish collector-naturalist employed by Swedish East Indian Company; collected mainly in the Far East around Hongkong and Canton.

Andropogon bladhii Retzius [=Bothriochloa bladhii (Retz.) S.T. Blake]

Bloomer, Hiram G. (1821-1874).

Pioneer botanist of California.

Stipa bloomeri Bolander

Boutelou, Claudio (1774-1842) and **Estéban** (1776-1813).

Spanish agriculturalists and gardeners; Claudio was professor of agriculture at Seville.

Bouteloua

Brown, Joseph R. (?-?).

Land-owner on whose west Texas ranch (Altuda Mountain Ranch) *Aristida brownii* was discovered; honored by Barton Warnock for his range conservation practices.

Aristida brownii Warnock [=Aristida purpurea Nutt. forma brownii (Warnock) Allred & Valdes-R.]

Bush, Benjamin Franklin (1858-1937).

Postmaster at Independence, Missouri, and amateur botanist.

Paspalum bushii Nash [=Paspalum setaceum Michx. var. stramineum (Nash) Banks]

Canby, William Marriott (1831-1904).

Amateur botanist, banker, and merchant of Wilmington, Delaware; accompanied Henry Villard's Northern Transcontinental Survey; collected throughout much of the United States and Canada in his lifetime, amassing a personal herbarium of 30,000 specimens.

Glyceria canbyi Scribn. [=Poa secunda Presl]

Cotta, Heinrich (1763-1844).

German plant physiologist.

Cottea

Danthoine, Étienne (?-1815?).

Nineteenth century French botanist who studied the grasses of the Marseilles region.

Danthonia

Aira danthonioides Trin. [=Deschampsia danthonioides (Trin.) Munro]

Deschamps, Louis Auguste (1766-1842).

Surgeon-naturalist on the sailing vessel *La Recherche*, which was sent out in 1828 by the French government in search of the famous explorer Jean-François de Galaup de La Pérouse, who had disappeared in the late 1700s. [His ship's wreckage was finally found on Vanikora of the Solomon Islands.]

Deschampsia

Desvaux, Nicaise Auguste (1784-1856).

French botanist at Angers.

Enneapogon desvauxii Beauv.

Earle, Franklin Sumner (1856-1929).

Agronomist and mycologist associated with the U.S. Department of Agriculture and New York Botanical Garden; extensive collections in southern Colorado (1898) and in central New Mexico (1900).

Festuca earlei Rydberg

Elliott, Stephen (1771-1830).

Pioneer botanist and legislator of South Carolina.

Agrostis elliottiana Schult.

Emersley, J.D. (?-?)

Botanical collector in the Southwest during the last century.

Muhlenbergia emersleyi Vasey

Fendler, Augustus (1813-1883).

German-born botanist who came to United States in 1836; hired as a botanical collector by Asa Gray at Harvard, and joined J.W. Abert on the military reconnaissance to Santa Fe in 1846; explored the environs of Santa Fe April-August 1847, collecting most of his plants on the west mesas and along Santa Fe Creek, never venturing farther than 12 miles from the town on account of Indian hostilities; the account of his collections in New Mexico were published in Gray's well-known *Plantae Fendlerianae Novi-Mexicanae* (1849); about 125 new species of plants were collected by Fendler

in New Mexico; also collected plants for Gray in western United States, Venezuela, Panama, and Trinidad.

Aristida fendleriana Steud. [=Aristida purpurea Nutt. var. fendleriana (Steud.) Vasey]

Eragrostis fendleriana Steud. [=Poa fendleriana (Steud.) Vasey]

Gerard, John (1545-1612).

English surgeon and pharmacist who produced the *Herball or Generall Historie of Plantes* (1597), which was part translation and part adaptation of a work by the Belgian Rembert Dodoens.

Andropogon gerardii Vitman

Gray, Asa (1810-1888).

Preeminent American botanist of his time, and perhaps to this time; professor of Natural History at Harvard University and a spirited rival of colleague Louis Agassiz; author of *Flora of North America* (with John Torrey), *Manual of Botany of the Northern United States* (1848, five editions), *Elements of Botany, Introduction to Structural and Systematic Botany, How Plants Grow, Synoptical Flora of North America* (uncompleted), and technical papers describing hundreds of new species; benefited from network of professional collectors and amateur naturalists from all over North America; vigorous proponent of Darwinism and champion of phylogeographical affinities of northeastern United States and eastern temperate Asia; as far as is known, never visited New Mexico.

Poa grayana Vasey [=Poa arctica R. Br. subsp. grayana (Vasey) A. & D. Löve & Kapoor]

Grisebach, August Heinrich Rudolf (1814-1879).

German botanist at Göttingen and director of the botanic garden; author of *Flora of the British West Indian Islands* (1864) and studies in Gentianaceae.

Setaria grisebachii Fourn.

Hackel, Eduard (1850-1926).

Celebrated Austrian (Bohemian-born) agrostologist and educator; contributed "Gramineae" to *Die Naturlichen Pflanzenfamilien* (1887) and authored *Monographia Andropogonearum* (1889).

Hackelochloa

Hall, Elihu (1822-1882).

Botanical collector and farmer from Illinois who visited Colorado, Nebraska, Oregon, and Texas; organized Illinois Natural History Society (1858); joined Charles C. Parry and J.P. Harbour on 1862 expedition to Colorado, during which he ascended Pike's Peak on July 1; Jones (1930) termed him "an indefatigable collector."

Andropogon hallii Hack. [=Andropogon gerardii Vitman subsp. hallii (Hack.) Wipff]

Panicum hallii Vasey

Havard, Valery (1846-1927).

French-born surgeon in U.S. Army; well-known for his botanical collecting in Montana, Texas, and the Southwest; authored *Report on the Flora of Western and Southern Texas* (1886) and *Drink Plants of the North American Indians* (1896).

Aristida havardii Vasey

Panicum havardii Vasey

Heller, Amos Arthur (1867-1944).

Pennsylvania-born botanist; founder and editor of journal *Muhlenbergia*; field agent for U.S. Department of

Agriculture and noted collector of western American plants, as well as in the Hawaiian Islands and Puerto Rico; visited Santa Fe in the spring of 1896, accompanied by his wife, Elizabeth Gertrude Heller, collecting 350 numbers while exploring the region by bicycle; spent later years as high school teacher in Chico, California.

Panicum helleri Nash [=Dichanthelium oligosanthes (Schult.) Gould var. scribnerianum (Nash) Gould]

Hilaire: see Saint-Hilaire.

Hillman, Frederick Hebard (1863-?).

Botanist for the U.S. Department of Agriculture; studied seed morphology.

Panicum hillmanii Chase

Hooker, William Jackson (1785-1865).

Father of Joseph Dalton Hooker, both botanists extraordinaires; director of Royal Gardens at Kew, England; student of mosses, ferns, and vascular plants; authored *Flora Boreali Americana* (1830-1840) with some 2500 species and *Synopsis Filicum* with 2252 species, among numerous other prestigious works; a skilled artist who prepared the plates as well as the text for his monographs.

Avena hookeri Scribn. [=Helictotrichon hookeri (Scribn.) Henr.]

Imperato, Ferrante (1550-1625).

Apothecary in Naples, Italy; author of a rare work on natural history.

Imperata

James, Edwin (1797-1861).

Surgeon-naturalist with Major Stephen H. Long's 1820 expedition to the Rocky Mountains and the first known botanical collector of the central Rockies and New Mexico; collections mostly named and published by John Torrey, but some by James himself; first anglo-American to ascend Pike's Peak (originally named "James Peak" by Long); abolitionist during the Civil War active in the Underground Railroad.

Pleuraphis jamesii Torr.

Koeler, George Ludwig (1765-1807).

German botanist and professor at Mainz; authored work on grasses of Germany and France, *Descriptio graminum in Gallia et Germania...* (1802).

Koeleria

Leers, Johann Daniel (1727-1774).

German botanist-pharmacist who authored a manual of the local flora (*Flora herbormensis*, 1775).

Leersia

Lehmann, Johann Georg Christian (1792-1860).

German botanist, professor of natural history, and director of the botanic garden at Hamburg.

Eragrostis lehmanniana Nees

Lemmon, John Gill (1832-1908).

California botanist and student-explorer of southwestern plant life, most of his noteworthy work being done with his wife, Sara Allen Plummer Lemmon; corresponded and exchanged plants with most of the notable botanists of his time; survived the infamous Andersonville prison during the Civil War; commemorated by Mount Lemmon in

Arizona (perhaps named for his wife, who was the first reported white woman to climb to its peak).

Eriochloa lemmonii Vasey & Scribn.

Muhlenbergia lemmonii Scribn. [=Muhlenbergia glauca (Nees) Mez.]

Tripsacum lemmonii Vasey [=Tripsacum lanceolatum Rupr.]

Letterman, George Washington (1841-1913).

Public school teacher in Allenton, Missouri; crossed plains to New Mexico in 1866, collecting along the way and in Colorado; principle collections are from Missouri and the southern States.

Stipa lettermanii Vasey [=Achnatherum lettermanii]

Lindheimer, Ferdinand Jakob (1801-1879).

German-born resident, botanist, and newspaper editor of New Braunfels, Texas; sent his well-gathered specimens to Asa Gray and George Engelmann, who published his work in *Plantae Lindheimerianae* (1845, 1850, 1907 by Blankinship).

Panicum lindheimeri Nash [=Dichanthelium acuminatum (Sw.) Gould & Clark var. acuminatum]

Macoun, John (1831-1920).

Celebrated Irish-born Canadian botanist and naturalist; professor of botany at Albert College, Ontario; accompanied several expeditions to the northern Rockies; author of *Catalogue of Canadian Plants* (1883-1902), and *Catalogue of Canadian Birds* with his son James M. Macoun; commemorated by Mount Macoun in the Selkirk range.

Elymus macounii Vasey

Metcalf, Orrick Baylor (1879-1936).

New Mexico botanical collector and resident of Mangas Springs in southwestern New Mexico; student of E.O. Wootton at the New Mexico College of Agricultural and Mechanic Arts (New Mexico State University) in Las Cruces; senior thesis on *The Flora of the Mesilla Valley* (1903) and master's thesis entitled *Atriplex and Larrea Tension Line in the Mesilla Valley, New Mexico* (1904); significant collections in the Black Range 1902-1904, which were sold to numerous herbaria throughout the country and even overseas; taught auto mechanics at the State College, later entered the auto business in the Silver City area, then mining operations, and was killed in a bizarre mine accident.

Muhlenbergia metcalfei M.E. Jones

Morton, Julius Sterling (1832-1902).

Agriculturalist, historian, and journalist; U.S. Secretary of Agriculture 1893-1897.

Avena mortoniana Scribner [=Helictotrichon mortonianum (Scribn.) Henrard]

Muhlenberg, Gotthilf Heinrich Ernst [also Heinrich Ludwig Muehlenberg] (1753-1815).

Pennsylvania-born, German-educated, Lutheran pastor, eminent ecologist and agrostologist of Lancaster, Pennsylvania; studiously identified more than 1,000 species of plants near his home; member of the distinguished Muhlenberg family of the United States: father Heinrich Melchior Muhlenberg, the father of German Lutheranism in America; brother Fredrich Augustus Muhlenberg, a member of the convention that ratified the U.S.

Constitution and the first Speaker of the House of Representatives; brother John Peter Gabriel Muhlenberg, general in the American Revolution who inspired the Germans in the Shenandoah Valley to side with the American insurgents (and not with the German soldiers hired by the British) and who served in the first U.S. House of Representatives; Gotthilf's son, Henry Augustus Muhlenberg, U.S. Congressman and Ambassador to Austria; Gotthilf's grandson, Frederick August Muhlenberg, president of Muhlenberg College at Allentown.

Muhlenbergia

Munro, Sir William (1818-1880).

British botanist-agrostologist and general in the Indian colonial army; collected in Barbados, Crimea, and India.

Munroa

Nealley, Greenleaf Cilley (1846-1896).

Botanical collector active in Texas; gathered forage plants for U.S. Department of Agriculture; co-author (with S.M. Tracy and G. Vasey) of *Report of an investigation of the grasses of the arid districts of Texas, New Mexico, Arizona, Nevada, and Utah* (1887).

Aristida stricta Michx. var. *nealleyi* Vasey
[=*Aristida purpurea* Nutt. var. *nealleyi*
(Vasey) Allred]

Sporobolus nealleyi Vasey

Triodia nealleyi Vasey [=*Erioneuron nealleyi*
(Vasey) Tateoka]

Nuttall, Thomas (1786-1859).

English-born botanist and ornithologist memorialized as "Old Curious" in *Two Years Before the Mast* by R.H. Dana; accompanied Wyeth's expedition to the Rockies in 1834 during which he collected numerous specimens; produced *Genera of North American Plants* and a *Catalogue of the Species of the Year 1817* (1818), an update of Michaux's *North American Sylva* (1842), as well as *Manual of the Ornithology of the United States and Canada* (1832); contributed heavily to Torrey and Gray's *Flora of North America* (1838-1840).

Poa nuttalliana Schultes [= *Puccinellia nuttalliana*
(Schult.) A.S. Hitchc.]

Orcutt, Charles Russell (1864-1929).

Naturalist and botanical collector based at San Diego, California; involved in the somewhat notorious "thorny rose affair" with M.E. Jones, C.C. Parry, and C.G. Pringle (see Lenz 1982); wrote *Botany of Southern California* (1901).

Aristida orcuttiana Vasey [= *Aristida schiedeana*
Trinius & Ruprecht var. *orcuttiana*
(Vasey) Allred & Valdés-R.]

Palmer, Edward (1831-1911).

Extraordinary explorer, naturalist, ethnobotanist, anthropologist, and plant collector; made extensive visits to southwestern United States, Mexico, and Paraguay, collecting for all the notable plant scientists of his day, including Gray, Engelmann, Watson, Torrey, Nash, Vasey, Baird, and Smith; gathered upwards of 100,000 botanical specimens, of which nearly 2000 were regarded as new to science; visited New Mexico in 1862, 1865, 1869, and 1884.

Agropyron spicatum (Pursh) Scribn. & Smith var.
palmeri Scribn. & Smith [= *Elymus*
smithii (Rydb.) Gould]

Eragrostis palmeri S. Wats.

Parish, Samuel Bonsall (1838-1928).

Resident of San Bernardino, California, and noted plant collector and botanist of southern California and adjacent areas.

Aristida parishii A.S. Hitchc.

Puccinellia parishii A.S. Hitchc.

Parry, Charles Christopher (1823-1890).

British-born botanist-physician living most of his life in Davenport, Iowa; foremost botanical explorer of Colorado and much of the mountain West, making several trips to the Rocky Mountains; official Botanist and Assistant Surgeon for the U.S.-Mexican Boundary Survey (1849-1852); traversed north-central New Mexico with the Pacific Railroad Survey along the 35th parallel in 1867; christened "king of Colorado botany" by Joseph D. Hooker.

Chondrosom parryi Fourn. [= *Bouteloua parryi*
(Fourn.) Griffiths]

Danthonia parryi Scribn.

Porter, Thomas Conrad (1822-1901).

Professor of Botany, as well as poet and classicist, at Lafayette College, Pennsylvania; author of *Synopsis of the Flora of Colorado* (1874, with J.M. Coulter) and *Flora of Pennsylvania* (1903).

Bromus kalmii Gray var. *porteri* Coult. [= *Bromus*
porteri (Coult.) Nash]

Melica porteri Scribn.

Muhlenbergia porteri Scribn. ex Beal

Pringle, Cyrus Guernsey (1838-1911).

Vermont botanist and pioneer plant breeder; universally respected plant collector, principally of Arizona, California, and Mexico; gathered perhaps as many as 500,000 specimens, of which more than 1200 were considered new species; considered by some as the "prince of botanical collectors" and praised by Marcus E. Jones (no small feat) as a "painstaking botanist" and a "very conscientious man, absolutely on the square about everything."

Stipa pringlei Beal [= *Piptochaetium pringlei*
(Beal) Parodi]

Puccinelli, Benedetto (1808-1850).

Italian botanist, professor, and director of the botanic garden at Lucca.

Puccinellia

Pumpelly, Raphael (1837-1923).

Geologist and mining engineer active in Montana, Arizona, and the northwestern United States; geologist for Villard's Northern Transcontinental Survey, accompanying the botanists W.M. Canby, C.S. Sargent, and F.L. Scribner.

Bromus pumpellianus Scribn. [= *Bromus inermis*
Leyss. var. *purpurascens* (Hook.)
Wagnon]

Reverchon, Julien (1837-1905).

French botanist-naturalist who resided at Dallas, Texas, and botanized throughout the state; brother of Elisée Reverchon, a well-known professional collector in France.

Aristida reverchonii Vasey [= *Aristida purpurea*
Nutt. var. *nealleyi* (Vasey) Allred]

Richardson, Sir John (1787-1865).

Scottish naturalist-zoologist and arctic explorer; author of *Fauna Boreali-Americana*.

Triticum richardsonii Schrader [=Elymus trachycaulus (Link) Shinnery subsp. subsecundus (Link) A. & D. Löve
Bromus richardsonii Link [=Bromus ciliatus L.]
Vilfa richardsonis Trinius [=Muhlenbergia richardsonis (Trin.) Rydb.]

Roemer, Karl Ferdinand (von) (1818-1891).

German botanist, geologist, and explorer who visited Texas in 1845-1847, collecting plants with F.J. Lindheimer; authored an account of his travels entitled *Texas; mit besonderer Rücksicht...* [Texas, with particular reference to German immigration and the physical appearance of the country described through personal observation by Dr. Ferdinand Roemer] (1845); most of his plants were described by G. H. Adolph Scheele, a German clergyman-botanist to whom Roemer had given the collections.

Aristida roemeriana Scheele

Rothrock, Joseph Trimble (1839-1922).

Botanist, physician, forester, and early student of Asa Gray's; surgeon-botanist assigned to G.M. Wheeler's 1873-1875 survey west of the 100th meridian, which passed through New Mexico and the surrounding states; his botanical results of the survey published (1878) in *Reports upon the botanical collections made in portions of Nevada, Utah, California, Colorado, New Mexico, and Arizona, during the years 1871, 1872, 1873, 1874, and 1875*, which constituted volume six of Wheeler's overall report of the exploration; subsequently professor of botany and forestry at University of Pennsylvania.

Bouteloua rothrockii Vasey [=Bouteloua barbata Lag. var. rothrockii (Vasey) Gould]

Saint-Hilaire, Auguste Francois César Prouvançal de (1779-1853).

Self-taught French botanist-entomologist who explored Brazil, Uruguay, and Paraguay in 1816-1822; associate of A.L. de Jussieu.

Hilaria

Sandberg, John Herman (1848-1917).

Swedish-born agronomist and forester; field agent for U.S. Department of Agriculture who collected plants in Minnesota, Washington, Michigan, Wisconsin, Montana, and Idaho.

Poa sandbergii Vasey

Saunders, William (1822-1900).

Scotch-born horticulturalist and gardener at Kew Gardens in England; first Superintendent of Horticulture, U.S. Department of Agriculture.

Elymus saundersii Vasey

Schaffner, Wilhelm [later J. Guillermo Schaffner] (?-1882).

German botanical collector and pharmacist who settled in Mexico in 1856; collected extensively around Mexico, Orizaba, and San Luis Potosí.

Muhlenbergia schaffneri Fourn. [=Muhlenbergia depauperata Scribn.]

Schiede, Christian Julius Wilhelm (1798-1836).

German physician-botanist who collected plants in Mexico, residing in that country from 1828 until his death in 1836.

Aristida schiedeana Trinius & Ruprecht

Scribner, Frank Lamson (1851-1938).

Chief of the Division of Agrostology, U.S. Department of Agriculture; accompanied W.M. Canby on Villard's 1883 Northern Transcontinental Survey, collecting grasses in Montana. [In his publications, Scribner hyphenated his name on the title pages ("Lamson-Scribner"), but used just "Scribner" as author in his descriptions of new species.

Agropyron scribneri Vasey [=Elymus scribneri (Vasey) M.E. Jones]

Calamagrostis scribneri Beal

Panicum scribnerianum Nash [=Dichanthelium oligosanthes (Schult.) Gould var. scribnerianum (Nash) Gould]

Stipa scribneri Vasey [=Achnatherum scribneri]

Smith, Jared Gage (1866-1925).

American agriculturalist and collector-botanist for the U.S. Department of Agriculture; botanized in Nebraska and Hawaii, as well as Europe, Australia, and Mexico; one-time botanist at Missouri Botanical Garden; later took up tobacco farming; well-known for his *A synopsis of the genus Sitanion* (1899).

Agropyron smithii Rydb. [=Elymus smithii (Rydb.) Gould]

Springfield, H. Wayne (1920-x).

Range scientist and ecologist for the U.S. Forest Service 1947-1977, much of his work being done on Glorieta Mesa in New Mexico; studied mine reclamation and restoration ecology of winterfat, fourwing saltbush, and crested wheatgrass.

Andropogon springfieldii Gould [=Bothriochloa springfieldii (Gould) Parodi]

Stebbins, George Ledyard (1906-x).

Distinguished American plant geneticist, evolutionist, and student of plant speciation, with a particular interest in grasses and polyploidy; associated with the universities at Berkeley and Davis, California for many years; author of *Variation and Evolution in Plants* (1950) and *Flowering Plants: Evolution Above the Species Level* (1974).

Hordeum stebbinsii Covas [=Hordeum murinum L. subsp. glaucum (Steud.) Tsvelev]

Swallen, Jason Richard (1903-1991).

Agrostologist and head curator, U.S. National Herbarium (Smithsonian Institution); early training under tutelage of A.S. Hitchcock and Agnes Chase; significant collections throughout North America, but especially from California, southwest U.S., Mexico, Honduras, and Brazil, from which he described more than 500 new species of grasses; authored *Grasses of Panama* (1943) and *Grasses of Guatemala* (1955), among numerous other works.

Hilaria swallenii Cory

Thurber, George (1821-1890).

New York botanist and journalist; Botanist, Quartermaster, and Commissary with the U.S.-Mexican Boundary Survey (1850-53), during which he made important collections from near Mimbres and Silver City; editor of *American Agriculturalist*; in later life devoted to the unmasking of business fraud, for which he was touted by Rusby as "a terror to quacks, charlatans, and swindlers of every description;" commemorated in Asa Gray's *Plantae Novae Thurberianae*.

Festuca thurberi Vasey

Muhlenbergia thurberi Rydb.

Torrey, John (1796-1873).

Celebrated amateur botanist and early mentor, later colleague, of Asa Gray; practicing physician and professor at Columbia and Princeton universities; contributed to the botanical write-ups of most of the government exploring expeditions of his time, though joining none of them in the field; wrote *Flora of New York* (1843) and, with Gray, the unfinished *Flora of North America* (1838-1843); visited the West late in life, but did not tarry in New Mexico; honored by the journal, *Bulletin of the Torrey Botanical Club*; outstanding taxonomist of western American plants and referred to by Isely (1994) as "a gifted, pragmatic systematist and a superb human being."

Andropogon torreyanus Steudel [=Bothriochloa laguroides (DC.) Herter subsp. torreyana (Steud.) Allred & Gould]

Agrostis torreyi Kunth [=Muhlenbergia torreyi (Kunth) A.S. Hitchc. ex Bush]
Torreyochloa

Tracy, Samuel Mills (1847-1920).

Agronomist and forage botanist of the U.S. Department of Agriculture; botanized near Raton, New Mexico in 1887, and nearby in southern Colorado in 1898 (with E.L. Greene and F.S. Earle); co-author (with G.C. Nealley and G. Vasey) of *Report of an investigation of the grasses of the arid districts of Texas, New Mexico, Arizona, Nevada, and Utah* (1887); long-time resident of Biloxi, Mississippi, and Director of U.S.D.A. Experiment Station at Starkville; his collections and library formed the basis of Tracy Herbarium (TAES) at Texas A&M University.

Poa tracyi Vasey

Tweedy, Frank (1854-1937).

Topographic engineer and sometime plant collector with the U.S. Geological Survey, collecting chiefly from the northern Rockies and Pacific Northwest.

Stipa tweedyi Scribn.

Vasey, George (1822-1893).

English-born American botanist and eminent agrostologist; practiced medicine in Illinois and helped found the Illinois Natural History Society; accompanied J.W. Powell to Colorado in 1868, serving as botanist to the expedition; curator of U.S. National Herbarium, 1872-1893; visited New Mexico in 1884 and 1886; authored *Grasses of the Southwest* (1890) and co-author (with G.C. Nealley and S.M. Tracy) of *Report of an investigation of the grasses of the arid districts of Texas, New Mexico, Arizona, Nevada, and Utah* (1887);

Stipa vaseyi Scribn. [=Achnatherum robustum (Vasey) Scribn.]

Aristida vaseyi Woot. & Standl. [=Aristida purpurea Nutt. var. nealleyi (Vasey) Allred]

Warnock, Barton H. (1911-1998)

Enigmatic, energetic, captivating, sometimes cantankerous botanist of Trans-Pecos Texas; professor at Sul Ross University (Alpine, Texas); mentor to numerous Texas botanists, both professional and amateur; known affectionately as "Doc" by students and ranchers alike; published series of photographic wildflower books (with photographer Peter Koch) of the Big Bend, Guadalupe Mountains and Sand Dune Country, and Davis Mountains and Marathon Basin, all in Texas.

Bouteloua warnockii Gould & Kapadia

Wheeler, George Montegue (1842-1905).

Major in the Army and topographic engineer in charge of government surveys west of the 100th meridian, making 14 trips during 1871-1879; some of the journeys were accompanied by botanist J.T. Rothrock who wrote-up the botanical collections; commemorated by Wheeler Peak in northern New Mexico, its highest mountain at 13,160 ft.

Poa wheeleri Vasey [=Poa nervosa (Hook.) Vasey var. wheeleri (Vasey) C.L. Hitchc.]

Wilcox, Timothy Erastus (1840-1932).

Surgeon associated with U.S. Army who collected in western states.

Panicum wilcoxianum Vasey [=Dichanthelium oligosanthes (Schult.) Gould var. wilcoxianum Gould (Vasey) Gould & Clark]

Wolf, John (1820-1897).

Illinois botanist and naturalist; accompanied the Wheeler expedition to the west, making numerous plant collections under the direction of J.T. Rothrock, particularly in 1873.

Sporobolus wolfii Vasey [=Muhlenbergia ramulosa (Kunth) Swallen]

Trisetum wolfii Vasey

Wright, Charles (1811-1885).

Indefatigable botanical explorer of the last century, collecting plants mostly for Asa Gray; graduate of Yale University; visited the region in 1849 (Texas) and 1851-52 (mostly New Mexico, environs of Santa Rita, and Arizona) as Surveyor and Botanist for the U.S.-Mexican Boundary Survey; southwestern collections treated in Gray's *Plantae Wrightianae* (1852, 1853); accompanied Ringgold's North Pacific Exploring Expedition of 1853-1855; spent 11 years collecting in Cuba, the results of which are enumerated in Grisebach's *Plantae Wrightianae* (1860-1862); of whom Gray said: "Surely no botanist ever earned such scientific remembrance by entire devotion, acute observation, severe exertion, and perseverance under hardship and privation....No name is more largely commemorated in the Botany of Texas, New Mexico, and Arizona than that of Charles Wright."

Andropogon wrightii Hack. [=Bothriochloa wrightii (Hack.) Henr.]

Aristida wrightii Nash [=Aristida purpurea Nutt. var. wrightii Nash]

Muhlenbergia wrightii Vasey ex Coult.

Pappophorum wrightii S. Wats. [=Enneapogon desvauxii Beauv.]

Sporobolus wrightii Munro ex Scribn.

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Sources

- Allred, K.W. Elmer Ottis Wootton and the botanizing of New Mexico. *Syst. Bot.* 15(4):700-719.
- Cox, J.R., T.N. Johnsen, & H.L. Morton. 1987. H. Wayne Springfield — Southwestern range ecologist. *Rangelands* 9(4):157-158.
- Crosswhite, F.S. 1979. J.G. Lemmon and wife, Plant explorers in Arizona, California, and Nevada. *Desert Plants* 1:12-21
- Crosswhite, F.S. & C.D. Crosswhite. 1997. Muhly grasses and the Muhlenberg family, with notes on the Pietist movement and Pietistic ecology. *Desert Plants* 13(2):3-13.
- Dodson, C. 1993. Botanists of the Mexican-United States boundary survey. *Huntia* 9(1):89-96.
- Evans, H.E. 1993. *Pioneer Naturalists*. Henry Holt and Company, New York. 294 pp.
- Ewan, J. 1950. *Rocky Mountain Naturalists*. University of Denver Press. 358 pp.
- Geiser, S.W. 1948. *Naturalists of the Frontier*. Southern Methodist University, Univ. Press in Dallas. 296 p.
- Hitchcock, A.S. & A. Chase. 1951. Persons for whom grasses have been named. p. 984-990. Revised by J. Ewan. IN *Manual of the Grasses of the United States*. USDA Misc. Publ. 200.
- Isely, D. 1994. *One Hundred and One Botanists*. Iowa State University Press, Ames. 351 pp.
- Jones, M.E. 1930. Botanists whom I have known. *Contr. Western Bot.* 16:43-49.
- Lenz, L.W. 1982. The thorny rose affair: Discovery and naming of *Rosa minutifolia*. *Aliso* 10(2):187-217.
- McKelvey, S.D. 1956. *Botanical Exploration of the Trans-Mississippi West 1790-1850*. Arnold Arboretum of Harvard University, Jamaica Plain, Massachusetts [reprinted by Oregon State University Press, 1991]. 1144 pp.
- McVaugh, R. 1956. *Edward Palmer, Plant Explorer of the American West*. University of Oklahoma Press, Norman. 430 pp.
- Nature Conservancy (NM Field Office). 1993. A bibliography of references to the historical status of the flora and fauna of the Southwest. Copy from The Nature Conservancy, New Mexico Field Office, Santa Fe, NM. 91 p.
- Reeder, C.G. & J.R. Reeder. 1991. Jason Richard Swallen (1903-1991). *Taxon* 40:697-698.
- Roalson, E.H. & K.W. Allred. 1995. A working index of New Mexico vascular plant names. *Agr. Exp. Sta. Res. Rep.* 702, plus supplements. NM Agr. Exp. Sta., New Mexico State University, Las Cruces.
- Rusby, H.H. 1890. A biographical sketch of Dr. George Thurber. *Bull. Torrey Bot. Club* 17(8):204-210.
- Stafleu, F.A. & R.S. Cowan. 1976-1988. *Taxonomic Literature*, 2nd ed. Vols. 1-7. Bohn, Scheltema & Holkema, Utrecht.
- Standley, P.C. 1910. The type localities of plants first described from New Mexico. *Contr. U.S. Nat. Herb.* 13(6):143-227.
- Standley, P.C. 1910. Bibliography of New Mexican Botany. *Contr. U.S. Nat. Herb.* 13(6):229-246.
- Turner, B.L. 1998. Barton H. Warnock, 1911-1998. *Plant Science Bull.* 44(1):78-80.
- Weber, W.A. 1997. *King of Colorado Botany: Charles Christopher Parry, 1823-1890*. University Press of Colorado, Niwot. 183 pp.