

Var. **floridana**. Pedicelli et rami inflorescentiae sparse glandulosi, glandulis saepissime sessilibus, pilis hispido-pilosis subnumerosis.—FLORIDA: thicket, Brevard Co., Indian River region, 2 Dec. 1902, *A. Fredholm* 5626 (TYPE in Gray Herbarium); Tallahassee, Leon Co., 1895, *G. V. Nash* 2327; Apalachicola, 1897, *Biltmore Herbarium* 788c; without definite locality, *Chapman*.

Var. **densipilis**. Pedicelli et rami inflorescentiae dense canescentesque hispido-pilosi pilis patentibus vel adscendentibus, glandulis inconspicuis.—LOUISIANA: *Hale*. OKLAHOMA: Grand River, Cherokee Nation (Ind. Terr.), 1895, *J. W. Blankinship*. TEXAS: ten feet high, rare on the shady banks of the Guadalupe near New Braunfels, Aug. 1850, *Lindheimer* 381 (TYPE in Gray Herbarium), also 954; Upper Guadalupe River, Aug. 1847, *Lindheimer*. BERMUDA: shaded bank near Tuckers Town, 1905, *Brown & Britton* 321, also 1908, *S. Brown* 470; near Bailey's Bay, 1908, *S. Brown* 494; along roads, Botanic Garden, Paget, 1905, *J. W. Harshberger*; low shaded place, Paget, 1912, *B. L. Robinson* 50.

STOUGHTON, MASSACHUSETTS.

NOTES ON RARE NEW YORK STATE PLANTS.

F. P. METCALF AND L. GRISCOM.

(Continued from page 37.)

JUNCUS CANADENSIS J. Gay., var. **SUBCAUDATUS** Engelm. Saratoga Co.: ditches along R. R., South Corinth, *C. H. Peck* (11), 1879, p. 54. "Not reported from New York State" (18). Oswego Co.: Granny's Orchard, Palermo, 1895, *W. W. Rowlee* (9). Cayuga Co.: swale in woods N. E. end of Duck Lake, Conquest, July 12, 1916, *F. P. Metcalf*, *L. Griscom* (10). Erie Co.: reported in (6).

JUNCUS TORREYI Coville. Oneida Co.: Oneida Lake (11), 1913, p. 25. Fulton Co.: Johnstown, *Olsson & Alexander* (11), 1913, p. 25. Nassau Co.: Long Beach (17). Onondaga Co.: frequent (5). Oswego Co.: collection of *C. S. Sheldon* (11), 1914, p. 25. Cayuga Co.: $1\frac{3}{4}$ miles N. W. of Spring Lake, along roadside, Conquest, August 13, 1916, *F. P. Metcalf*, *L. Griscom*, *A. H. Wright* (10). Seneca Co.: Dumont's Road, Seneca Falls, August 1895, *W. W. Rowlee*, *K. M. Wiegand* (9). Western New York (18). Monroe Co.: Charlotte, *L. Holzer* (11), 1897, p. 281; Long Pond, *Dr. Anna H. Searing* (4); sandy shores of Lake Ontario, *Gray* (2). Niagara Co.: Goat Island, near the River (20). Erie Co.: reported in (6).

SMILACINA TRIFOLIA (L.) Desf. Franklin Co.: Axton, 1901, *W. B. Howard* (9). Pickerel Pond, 1899, *W. W. Rowlee*, *K. M. Wiegand*, *G. T. Hastings* (9). Herkimer Co.: Frankfort Hill, North Woods Marshes (2). Oneida Co.: Paris Hill, near Oriskany, Summit Lake, Mud Lake, Jordanville Marshes, South Trenton, Swamp of Rome, Point of Rock Lake (2). Madison Co.: Peterboro, Peeksport, Arbor Vitae swamps, *H. D. House* (11), 1914, p. 42. Dutchess Co.: Pine Plains (17). Orange Co.: *Austin* (8), iv. 17. Chenango Co.: Oxford, *Coville* (3); Brisbin swamp, 1887, *H. L. Stewart* (9). Tompkins Co.: Spruce Swamp, Enfield, 1875, 1884, (9). Onondaga Co.: abundant (5). Oswego Co.: Granny's Orchard, Palermo, Birdall's Bog, Volney, 1894–1895, *W. W. Rowlee* (9). Cayuga Co.: Miller's Bog, bog N. of Miller's Bog, bogs N., N. E., and E. of Duck Lake, Conquest; Feathered Bog and adjoining bogs, Victory, June, July, *A. A. & A. H. Wright*, *F. P. Metcalf*, *L. Griscom*. Wayne Co.: Arbor Vitae swamps and bogs, N. E. corner of Butler, also N. and N. E. of Savannah, June, July, *F. P. Metcalf*, *L. Griscom*, *A. A. & A. H. Wright* (10). Monroe Co.: Adam's Basin (2). Genesee Co.: Bergen Swamp, 1897, *A. H. Wright* (9). Cattaraugus Co.: Machias (6).

HABENARIA BRACTEATA (Willd.) R. Br. Essex Co.: along Keene Road near N. Elba, *C. H. Peck* (11a), 1899, p. 131. Lewis Co.: *F. B. Hough* (22b) 1846. Herkimer Co.: Fairfield, *Gray*, and Frankfort Hill (2); near Newport, 1901, *H. D. House* (8), xxxii. 376. Oneida Co.: Sangerfield (2). Madison Co.: Brookfield, *Gray* (2); Cazenovia, *M. C. Conner* (8), xxxii. 376. Schenectady Co.: along Rolleboom of Rotterdam Hills (2). Dutchess Co.: *A. Winchell* (22c), 1851. Reported, but not definitely known from Long Island; rare in Westchester Co., increasing northwestward (17). Chemung Co.: near Elmira, 1893, *Lucy* (3). Cortland Co.: Truxton and Preble, 1893, *K. M. Wiegand* (21). Onondaga Co.: Otisco, 1896 (5); Baldwinsville, *Beauchamp* (8), xxxii. 376. Cayuga Co.: woods N. of Spring Lake, Conquest, June, August, *A. A. & A. H. Wright*, *F. P. Metcalf*, *L. Griscom* (10). Yates Co.: *Sartwell*, Herb. Hamilton College (2). Monroe Co.: Brighton, *C. M. Booth*; near Coldwater, *G. T. Fish*; Troutburg, *M. S. Baxter*; Big Woods, Forest Lawn, *Mrs. H. G. Pierce*; Pinnacle Hill, *Mrs. V. Dewing* (4). Genesee Co.: Bergen Swamp (4). Erie Co.: reported in (6).

HABENARIA BLEPHARIGLOTTIS (Willd.) Torr. Lewis Co.: Beaver Lake, *Watson*, *B. D. Gilbert* (8), xxxii. 366. Herkimer Co.: Frankfort Hill near Wetmore's Pond (2). Oneida Co.: South Trenton; borders of rock Lake (2). Madison Co.: Fiddlers Green, Peeksport, near Eaton, *H. D. House* (8), 1913, p. 29. Rensselaer Co.: Cranberry Marsh, Sand Lake, *C. H. Peck* (11b), 1910, p. 71; Van Rensselaer Swamp, 1903, *E. M. Cipperly* (9). Orange Co.: Spruce Pond, 25 miles E. of Southfields, *Millspaugh* (8), xi. 134. Westchester Co.: Lake Mohegan, *T. W. Martins, Jr.* (8), xvi. 124. Rockland Co.: Tuxedo Park (17). Richmond Co.: Mariner's Harbor, *R. G. Eccles* (8), xviii.

214. Suffolk Co.: Babylon, and along S. shore (8), iv. 98; Barton, *Miller* (8), vii. 17; Patchogue, *W. T. Davis* (8), xxii. 462. Long Island and Staten Island (17). Tioga Co.: near Owego, *Millsbaugh* (3). Chenango Co.: Smithville, *Coville* (3). Cortland Co.: Labrador Swamp, Truxton, 1889, *K. M. Wiegand* (21); 1894, *W. W. Rowlee* (9). Onondaga Co.: Centerville, Cicero Swamp (5); Beaver Lake, *Beauchamp* (8), xxxii. 366; Mud Lake, Baldwinsville, 1897, *W. W. Rowlee* (9). Oswego Co.: Mud Lake, 1878, *F. L. Kilborne* (9); Lily Marsh, 1895, *W. W. Rowlee* (9), and *H. D. House* (11), 1914, p. 50. Cayuga Co.: bogs E. and N. E. of Duck Lake, Conquest, August 12, 1916, and Featherbed Bog, Victory, August 13, 1916, *L. Griscom*, *A. H. Wright*, *F. P. Metcalf* (10). Seneca Co.: W. Junius (9), (10). Monroe Co.: Mendon, *M. S. Baxter* (4). Chautauqua Co.: Hanover (6).

POGONIA VERTICILLATA (Willd.) Nutt. Lewis Co.: *F. B. Hough*, very rare, (22b), 1846. Oneida Co.: Oriskany Swamp, *Dr. Knieskern* (1), and *Vasey* (2); mossy bogs on plains of Rome, along R. R., *J. H. Paine, Jr.* (8), xxxii. 377. Madison Co.: Eaton, 1840, *Dr. Bradley* (1); and *H. D. House* (11), 1913, p. 30; Fiddlers Green, 1905, *H. D. House* (8), xxxii. 377. Schenectady Co.: in the pine plains, *Pearson* (2). Dutchess Co.: *A. Winchell* (22c), 1851. Common S. of moraine on Long Island, Staten Island and up Hudson River Valley to Dutchess Co. (17). Broome Co.: N. W. of Binghamton, *Clute* (3). Tompkins Co.: Caroline Hills, Danby Hills, 1881-1882 (9). Onondaga Co.: Otisco, Cicero swamp, Beaver Lake (5); Kirkville, 1902, *House* (8), xxxii. 377. Oswego Co.: Lily Marsh, 1879, *C. S. Sheldon*, 1891, *W. W. Rowlee* (9), and *H. D. House* (11), 1914, p. 25. Cayuga Co.: bogs N. E., E. and N. of Duck Lake, Conquest, June, July, *A. A. & A. H. Wright*, *L. Griscom*, *F. P. Metcalf*; Featherbed Bog, Victory, August 12, 1916, *F. P. Metcalf*, *L. Griscom* (10).

POGONIA TRIANTHOPHORA (Sw.) BSP. Oneida Co.: Pine Plains of Rome, *Knieskern* (2). Madison Co.: Eaton near Leland's upper pond, *Bradley* (2). Reported from vicinity of New York city but not recently collected (17). Onondaga Co.: Beaver Lake, Tamarack Swamps, Geddes Woods (5); Round Lake, Fayetteville (8), vi. p. 192; Kirkville, *Underwood* (8), xxxii. 377. Cayuga Co.: woods N. of Spring Lake, Conquest, August 12, 1916, *L. Griscom*, *A. H. Wright*, *F. P. Metcalf* (10). Seneca Co.: Sheldrake Point, Cayuga Lake, *Gray* (2). Wayne Co.: woods near Savannah, *C. H. Peck* (11), 1872, p. 88; near Lake shore, North Rose, 1906, *Ruth Weed* (9); Arbor Vitae-tamarack Swamp, N. E. corner Butler, August 13, 1916, *A. H. Wright*, *L. Griscom*, *F. P. Metcalf*. Ontario Co.: Gorham, *Sartwell*, in Herb. Hamilton College (2). Monroe Co.: Parma, *Bradley*, and Brockport, *Lennon* (4); Webster and Adams' Basin, *M. S. Baxter* (4). Orleans Co.: Yates, *Miss F. Beckwith* (4). Erie Co.: West Seneca near Smoke's Creek, *Junius S. Smith* (6).

ARETHUSA BULBOSA L. Lewis Co.: *F. B. Hough* (22b), 1846.

Oneida Co.: Oriskany swamp, *Gray* (2); formerly at Flats of Mohawk below Utica (2); Moss Marsh beyond Fort Bull and Rome (2). Schenectady Co.: Major VanVoosts Fly, *Pearson* (2). Delaware Co.: *M. Platt* (22e), 1841. Dutchess Co.: rare and local (17). Suffolk Co.: near Hook Pond, East Hampton, *E. S. Miller* (8), vi. 157; Wading River, 1877, *E. S. Miller* (9). Increasing and frequent southward particularly in Long Island not recorded from Staten Island (17). Cortland Co.: Homer, *G. W. Bradford* (22d), 1833; Labrador Swamp, Truxton, 1893, *K. M. Wiegand* (21), and *Beauchamp* (8), xxxii. 377. Tompkins Co.: Freeville Swamp, Dryden, 1875, *E. H. Palmer* (9). Onondaga Co.: infrequent, Tamarack Swamp (5); Cicero Swamp, Beaver Lake, *Beauchamp* (8), xxxii. 377; E. of Syracuse, *F. Bell, H. D. House* (8), xxxii. 377. Oswego Co.: collection of *C. S. Sheldon* (11), 1914, p. 25; Mud Lake, 1888, *H. L. Stewart* (9). Cayuga Co.: Featherbed Bog, southern portion Victory, June 11, 1916, *F. P. Metcalf, L. Griscom, A. A. & A. H. Wright* (10). Seneca Co.: Junius, *Sartwell*, in Herb. Hamilton College (2). Genesee Co.: West Bergen Swamp (2). Cattaraugus Co.: Machias (6). Chautauqua Co.: Hanover and Cassadaga Lake (6).

SERAPIAS HELLEBORINE L. Herkimer Co.: Mohawk River Flats, Little Falls, *Mrs. L. Burrell* (11), 1914, p. 41. Madison Co.: Cazenovia, Sept. 2, 1915, *Edith Webster* (10). Tompkins Co.: near Newfield, 1890–1916, *Mrs. James*; ravine N. of Beech Woods, Six Mile Creek, Ithaca, August 19, 1916, *F. P. Metcalf* (10). Onondaga Co.: Geddes Gorge, August 1879 (5); Otisco, *W. W. Munson* (11), 1888, p. 132. Oswego Co.: near Fairhaven, Sterling, 1916, *P. Munz* (10). Cayuga Co.: near Auburn, 1904, *G. W. Boynton* (9); woods near Stark Pond, Conquest, July 2, 1916, *L. H. MacDaniels* (10); Nichols Woods, N. of Duck Lake, Victory, August 12, 1916, *F. P. Metcalf, L. Griscom* (10); Botrychium Woods N. of Spring Lake, Conquest, August 11 and 12, 1916, *L. Griscom, A. H. Wright, F. P. Metcalf*. Wayne Co.: N. E. corner Butler, August 13, 1916, *F. P. Metcalf, L. Griscom, A. H. Wright* (10); abundant in woods S. W. of North Rose, Rose, 1915–1916, *A. R. Weed*; woods in S. E. corner of Rose, October 5, 1916, *A. H. Wright, F. P. Metcalf* (10). Ontario Co.: Canandaigua, *E. J. Durand* (8), xxiii. 354. Monroe Co.: Webster, *M. S. Baxter*; Forest Lawn, *Mrs. H. G. Pierce*; North Rush and Henrietta, *E. H. Clapp*; Oak Orchard Creek, *W. H. Lennon* (4a), 1910; Golah; East shore Irondequoit Bay, *Killip & Woodams*; Rattlesnake Point, *Mrs. White*, (4b), 1916. Seneca Park, Rochester, 1916, *Effie Riley* (10). Orleans Co.: 7 mi. S. E. and 3 mi. S. E. of Medina, *L. H. Wild* (9). Niagara Co.: shaded roadside, Wilson, August 24, 1915, *A. J. Eames* (10). Erie Co.: near Scajauquady's Creek, 1882, *Edna M. Porter* (6a).

LISTERA AUSTRALIS Lindl. St. Lawrence Co.: a single plant in large swamp near Fine, August, *C. H. Peck* (11), 1909, p. 35. Fulton Co.: Canada Lake, 1912, *C. P. Alexander*, and 1913, *A. Olsson* (11), 1913,

p. 26. Onondaga Co.: occasional, Cicero Swamp (5); near Baldwinsville, 1885, *Beauchamp & Underwood* (16). Oswego Co.: Lily March, 1876, *A. Wibbe*, and 1879, *C. S. Sheldon*, later *C. S. Sheldon, W. W. Rowlee* (16), (11), 1909, p. 31; Granny's Orchard, E. Palermo, 1894, *W. W. Rowlee* (9). Cayuga Co.: bog E. of Duck Lake, Conquest, June 11, 1916, *L. Griscom, A. A. & A. H. Wright, F. P. Metcalf*, also July 1, 1916, *K. M. Wiegand, L. H. MacDaniels* (10); rich woods E. side of Featherbed Bog, Victory, June 11, 1916, *L. Griscom, A. A. & A. H. Wright, F. P. Metcalf*, and July 1, 1916, *K. M. Wiegand* (10).

MICROSTYLIS UNIFOLIA (Michx.) BSP. Richmond Co.: Egbertville, *Mrs. N. L. Britton* (8), xvi. 135; Ocean Terrace, *C. A. Timmerman* (8), xviii. 214. Long Island, mostly N. of the moraine, Staten Island and increasing northward (17). Chenango Co.: open woods, Oxford, *Coville* (3). Tioga Co.: North Woods, Oakley Corners, Owego, July 26, 1914, *H. M. Mapes* (10). Tompkins Co.: woods, Malloryville Bog, Dryden, August 30, 1915, *A. J. Eames, A. C. Fraser* (10). Onondaga Co.: Carpenter's Road, *H. D. House* (11), 1913, p. 39. Cayuga Co.: woods, N. W. of Featherbed Bog, Victory, August 12, 1916, *A. H. Wright, F. P. Metcalf, L. Griscom* (10).

SALIX CANDIDA Flüggé. Lewis Co.: *F. B. Hough* (22b), 1846. Herkimer Co.: Mud Lake, State Marsh, Hidden Lake, Litchfield (2). Otsego Co.: Summit Lake Borders (2). King Co.: *J. B. Zabriskie* (22a), 1885. Dutchess Co.: *A. Winchell* (22c), 1851. Tompkins Co.: Fleming Meadows, Ithaca, (12), (14), and 1914, *C. C. Thomas* (10). Onondaga Co.: frequent in Cold Bogs (5); shore of Tully Lake, 1898, *G. T. Hastings* (9), and 1913, *K. M. Wiegand* (10); Labrador Swamp, 1893, *K. M. Wiegand* (9). Oswego Co.: Fulton, 1887, *H. L. Stewart* (9); Van Burin's Bog, New Haven, 1895, *W. W. Rowlee* (9); Paradise Swamp, N. Palermo, 1895, *W. W. Rowlee, K. M. Wiegand* (9); Paddy Lake, Scriba, 1897, *W. W. Rowlee* (9). Cayuga Co.: Locke Pond (12); Miller's Bog near Spring Lake, Conquest, June 10, 1916, *F. P. Metcalf, A. A. & A. H. Wright, L. Griscom* (10); boggy woods, N. end of Otter Lake, Cato, July 2, 1916, *L. H. MacDaniels* (10). Wayne Co.: Newark, 1880, 1882, *E. L. Hankenson* (9); Tamarack Swamp, S. W. of Savannah (12); Tamarack Swamp, N. E. corner Butler, July 3, 1916, *K. M. Wiegand, A. J. Eames, F. P. Metcalf* (10). Seneca Co.: Junius, *Sartwell* (12). Monroe Co.: marsh head of Irondequoit Bay, *Dr. C. M. Booth* (4); Riga, *Miss F. Beckwith* (4); Adams' Basin, *M. S. Baxter* (4); Mendon, *G. T. Fish* (4). Livingston Co.: Caledonia, *Clinton* (4). Genesee Co.: West Bergen (2).

PYROLA ASARIFOLIA Michx., var. *INCARNATA* (Fisch.) Fernald. Lewis Co.: *F. B. Hough* (22b), 1846. Herkimer Co.: Mud Lake, Warren (2). Fulton Co.: Cold Springs, Gloversville, *A. Olsson & C. P. Alexander* (11), 1913, p. 27. Oneida Co.: Oriskany, *Dr. Knieskern* (1); Litchfield Marshes (2). Otsego Co.: abundant in marshes near Summit Lake near source of Otsquago Creek and Susquehanna R. (2). Madison Co.: (11), 1913, p. 27. Onondaga Co.: Jamesville

Swamp, Jamesville Road (5). Oswego Co.: (11), 1913, p. 27. Cayuga Co.: Hemlock-tamarack Woods N. of Miller's Bog, near Spring Lake, Conquest, June 10, 1916, *L. Griscom, A. A. & A. H. Wright, F. P. Metcalf* (10). Wayne Co.: in the Tamarack Swamp, S. E. of Savannah (12); Arbor Vitae-tamarack Swamp, near Turtle Pond, N. of Savannah, June 12, 1916, *L. Griscom, A. A. & A. H. Wright, F. P. Metcalf* (10); Arbor Vitae-tamarack Swamp, S. W. of Westbury, Butler, July 7, 1916, *F. P. Metcalf, A. H. Wright, K. M. Wiegand* (10). Erie Co.: Tonawanda Reservation, 5 mi. E. of Akron, *D. F. Day & G. W. C.* (11), 1866, p. 205.

GERARDIA PAUPERCULA Britton. Columbia Co.: Copake Falls (17). Richmond Co.: rare (17). Rare on N. shore Long Island, Staten Island (17). Oswego Co.: Mud Lake, Hannibal, *C. S. Sheldon* (11), 1914, p. 48, and *W. W. Rowlee*, 1894, (9); sand dunes, N. of Selkirk, 1902, *W. W. Rowlee, K. M. Wiegand* (9). Cayuga Co.: springy place, N. of Spring Lake, near roadside, Conquest, August 11 and 12, 1916, *L. Griscom, A. H. Wright, F. P. Metcalf* (10).

VALERIANA ULIGINOSA (T. & G.) Rydb. Herkimer Co.: Warren (12). Dutchess Co.: Pine Plains (12). Onondaga Co.: occasional (5). Wayne Co.: Newark, *E. L. Hankenson* (12), Savannah, 1833, *Sartwell* (12); abundant in bogs and Arbor Vitae Swamp near Turtle Pond, S. of E. Butler, Savannah, June 12, 1916, *A. A. & A. H. Wright, L. Griscom, F. P. Metcalf* (10); Arbor Vitae-tamarack Swamp, N. E. corner Butler, July 2, 1916, *K. M. Wiegand, A. H. Wright, F. P. Metcalf* (10). Seneca Co.: Junius, 1827, herb. of *J. J. Thomas* (12). Monroe Co.: Mendon Swamp, *G. T. Fish* (4); Powder Mills also Periton and Buchnell's Basin (4a). Genesee Co.: West Bergen Swamp (12).

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¹ The titles given here cover all the known stations in the state for the species treated; lesser publications were omitted where more recent floras covered the work completely; in some cases, however, where records were omitted by recent floras, the references to the older publications have been given.

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¹ Many records here will have to be regarded as questionable; as a number of the rarest plants are given as common or frequent with no data to substantiate the statement.

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