

PLANTS NOT HITHERTO REPORTED FROM INDIANA. VI.

C. C. DEAM.

The following plants have not been recognized as members of the Indiana flora. Specimens of the species reported are in the writer's herbarium. The species in *Rubus* and *Viola* were determined by Ezra Brainard. The *Parthenocissus* and *Vitis* were determined by C. S. Sargent. The Gramineae were determined by Agnes Chase. The determination of the remaining species was checked by the Gray Herbarium. The species in *Rubus* and *Viola* have been made possible by the breaking up of aggregates and the recognition of hybrids.

Paspalum pubescens Muhl.

Martin county, July 11, 1915. No. 17,161. In a woods pasture about three miles north of Shoals near Cedar Bluffs along White River. In Sullivan county, August 25, 1915. No. 18,229. On the border of a woods road in a beech woods about three miles northeast of Grayville.

Sorbus Aucuparia L.

Laporte county, May 2, 1911. No. 7,992. In a sandy black oak woods about three miles north of Laporte. This tree upon my authority was reported by J. A. Nieuwland in the *Midland Naturalist*, Vol. 4, 175, 1915, as *Sorbus americana* Marsh.

Prunus Mahaleb L.

Jefferson county, September 9, 1915. No. 18,862. In a woods pasture along Thrifty Creek about one mile above Clifty Falls. Martin county, August 31, 1915. No. 18,403. Several trees about four inches in diameter along the roadside about half a mile north of Loogootee. Ripley county, June 18, 1915. No. 16,129. A tree six inches in diameter on the rocky wooded slope of Laugherty Creek just east of Versailles.

Rubus allegheniensis Porter.

Allen county, June 3, 1906. No. 1,051. Wooded bank of the St. Joe River near Robison Park. Fountain county, June 4, 1905. In a woods just west of Veedersburg. Lagrange county, June 6, 1915. No. 15,946.

In sandy soil along the road on the east side of Pretty Lake. Steuben county, June 12, 1904. In a woods near Clear Lake. Wells county, May 21, 1903. Along a rail fence about two miles east of Bluffton.

Rubus allegheniensis x argutus.

Lagrange county, June 6, 1915. No. 15,883. On the low border of a marsh which is just south of Twin Lakes which are about two miles northwest of Howe.

Rubus argutus Link.

Clarke county, July 30, 1909. In a fallow field on the Forest Reserve. Decatur county, May 26, 1912. No. 10,777. Wooded slope along Flat Rock River about a half mile north of St. Paul. Dubois county, July 6, 1912. No. 11,621. Roadside bordering a woods a half mile north of Birdseye. Greene county, May 26, 1911. No. 10,711. In an open woods one mile southeast of Bushrod. Harrison county, June 24, 1915. No. 16,365. In a sandy woods about three miles east of Elizabeth. Marion county, May 30, 1913. No. 8,513. Along the C. H. & D. Railroad near Irvington. Monroe county, July 17, 1915. No. 17,471. Roadside five miles south of Bloomington. Perry county, July 4, 1912. No. 11,501. Along a rail fence about six miles west of Derby. Pike county, July 7, 1915. No. 16,967. In a beech woods one mile east of Union. Posey county, May 23, 1911. No. 8,277. Roadside bordering a woods three miles west of Hovey Lake. Ripley county, June 19, 1915. No. 16,136. In a beech and sugar maple woods two miles northwest of Cross Plains. Shelby county, June 29, 1912. No. 11,337. Taken by Mrs. Chas. C. Deam in a woods southwest of Morristown. Spencer county, June 28, 1915. No. 16,588. Roadside one mile south of St. Meinard. Wells county, July 26, 1914. No. 11,468. In a beech woods eleven miles northeast of Bluffton.

Rubus argutus x invisus.

Hendricks county, June 1, 1912. No. 10,825. Taken by Mrs. Chas. C. Deam on the flood plain bank of Little Walnut Creek about two and a half miles south of North Salem.

Rubus argutus x procumbens.

Decatur county, July 15, 1911. No. 9,210. Wooded bank of Flat Rock River about a half mile north of St. Paul.

Rubus invisus Bailey.

Brown county, June 16, 1912. No. 11,144. Along the road between Helmsburg and Nashville about one mile from Helmsburg. Clarke county, July 30, 1909. No. 5,418A. In a fallow field on the Forest Reserve.

Rubus procumbens Muhl.

Allen county, June 3, 1906. No. 994. In a sandy clearing about two miles south of Fort Wayne. Greene county, May 26, 1911. Frequent in fields and along the railroad near Bushrod. Perry county, July 4, 1912. No. 11,499. Roadside about six miles west of Derby. Ripley county, May 19, 1912. No. 10,611. Common in fields south of Morris. Steuben county, May 28, 1905. In a low thicket on the east side of Clear Lake.

Rubus recurvans Blanchard.

Elkhart county, June 4, 1912. No. 10,935. In an open woods two miles northwest of Middlebury. Lagrange county, June 5, 1915. No. 15,981. In a dry sandy clearing along Pigeon River about ten miles northeast of Lagrange. Whitley county, July 19, 1914. No. 14,426. On the wooded bank of the south side of Round Lake.

Stylosanthes biflora var. *hispidissima* (Michx.) Pollard & Ball.

Knox county, July 8, 1915. No. 17,068. In the Knox sand along the railroad about three miles south of Vincennes.

Tragia macrocarpa Willd.

Crawford county, September 4, 1915. No. 18,583. Roadside at the base of the Ohio River Bluffs a quarter of mile west of Leavenworth. Orange county, July 14, 1915. No. 17,387. Rocky bluff along Lick Creek about two miles west of Paoli. This species was noted in other Ohio River counties but no specimens were taken.

Euphorbia Peplus L.

Wells county, August 5, 1915. No. 17,913. Abundant in the side ditch and in the yard of E. Y. Sturgis at the north end of Johnson street in Bluffton. It has been established here several years.

Vitis cinerea Engelm.

Bartholomew county, September 15, 1912. No. 12,412. On the wooded border of a gravel pit three miles north of Columbus. Gibson county, Sep-

tember 4, 1911. No. 9,945. Wooded bank of White River about five miles northwest of Patoka. Johnson county, September 15, 1915. No. 19,081. Dry sandy bank along the roadside three miles north of Edinburg. Marion county, September 5, 1911. No. 10,058. Wooded bank of White River near Buzzard's Roost. Scott county, June 22, 1915. No. 16,303. In a clearing one mile south of Scottsburg. Shelby county, July 14, 1912. No. 11,666. Taken by Mrs. Chas. C. Deam along Brandywine Creek one mile east of Fairland. Vermillion county, September 29, 1912. No. 12,469. In an open woods two miles west of Hillsdale. Also along the Wabash River two miles south of Hillsdale.

Parthenocissus vitacea Hitch.

Blackford county, July 9, 1910. No. 7,032. Along a fence two miles northeast of Hartford City. Miami county, July 23, 1915. No. 17,903. Limestone ledge of the Mississinewa River about five miles southeast of Peru. Porter county, August 22, 1915. No. 18,043. On top of a wooded dune bordering Lake Michigan at a point five miles north of Chesterton. Steuben county, July 5, 1914. No. 14,384. On a roadside fence about two miles northwest of Pleasant Lake. Tippecanoe county, July 22, 1915. No. 17,742. Roadside fence seven miles north of Battle Ground. Wayne county, July 3, 1913. No. 13,548. In a woods one and a half miles west of Centerville. Wells county, June 24, 1906. No. 1,127. On a rail fence forty rods east of Bluffton.

Viola affinis LeConte.

Allen county, May 2, 1915. No. 15,569. In a sandy clearing on the Godfrey Reserve about three miles south of Fort Wayne. Grant county, May 22, 1915. No. 15,760. Low border of a lake about five miles northeast of Fairmount. Lagrange county, May 17, 1915. No. 15,641. In a tamarack swamp three miles east of Howe. Noble county, May 17, 1915. No. 15,673. In a wooded swamp about one mile southwest of Rome City. Wells county, May 12, 1915. No. 15,633. In sphagnum on the south side of the lake in Jackson Township.

Viola affinis x triloba.

Clarke county, May 25, 1910. No. 6,460. In a woods just west of Tract thirty-three on the Forest Reserve.

Viola cucullata x sororia.

Lagrange county, June 5, 1915. No. 15,998. Growing in sphagnum in a low woods bordering Pigeon River about four miles east of Mongo. My numbers 15,881, 15,915, 15,993 and 16,002 are the same species and taken in different parts of the same county.

Viola incognita var. Forbesii Brainard.

Allen county, May 9, 1915. No. 15,606. In an old tamarack swamp on the south side of Lake Everett about ten miles northwest of Fort Wayne. Lagrange county, May 17, 1915. No. 15,650. In a tamarack swamp about three miles east of Howe. Wells county, May 12, 1915. No. 15,619. In the low border of the small lake in Jackson Township associated with *Acer saccharinum* and *Populus tremuloides*.

Viola nephrophylla Greene.

Grant county, May 22, 1915. No. 15,745. In a boggy creek bottom near the bridge over the Mississinewa River about four miles southeast of Gas City. Noble county, May 17, 1915. No. 15,674. In the low marl border of Deep Lake one mile south of Wolf Lake.

Viola papilionacea x triloba Brainard.

Clay county, May 4, 1913. No. 12,613. Frequent along the bank of Croy Creek about one mile east of Harmony.

Viola pedatifida x sororia Brainard.

Wells county, May 12, 1915. No. 15,626. In rather dry soil on the shaded bank of the lake in Jackson Township.

Viola sagittata x triloba Brainard.

Whitley county, May 17, 1915. No. 15,682. In a white oak woods about four miles east of Columbia City.

Viola triloba Schwein.

Clarke county, May 11, 1910. No. 5,882. In a wooded ravine at the base of the "knobs" on the Forest Reserve. Deatur county, May 5, 1912. No. 10,459. Taken by Mrs. Chas. C. Deam on a wooded slope along Flat Rock River about a half mile north of St. Paul. Hancock county, May 14, 1912. No. 10,517. Taken by Mrs. Chas. C. Deam in a wet woods one and

a half miles southeast of Juliette. Henry county, May 10, 1911. No. 8,117. In a moist rich woods one mile northeast of Spiceland. Jefferson county, September 9, 1915. No. 18,855. In a woods one mile west of Chelsea. Johnson county, May 8, 1910. No. 5,782. Wooded hillside about three miles south of Franklin. Lagrange county, June 6, 1915. No. 15,865. In a woods on the north side of Cogg Lake about four miles south of Lagrange. Vermillion county, May 8, 1910. No. 5,840. Wooded hillside one mile northwest of Hillsdale. Whitley county, August 23, 1914. No. 14,543. In a white oak woods about four miles east of Columbia City.

Verbena bracteosa Michx. *x urticifolia* L.

Lawrence county, July 13, 1915. No. 17,287. In sandy soil along the roadside about a half mile north of Lawrenceport.

Bacopa rotundifolia (Michx.) Wettst.

Orange county, July 14, 1915. No. 17,376. In a pond near the Washington county line along the Paoli and Salem road one and a half miles south of Bromer. Also noted in a pond near the road about three miles south of Orleans. Washington county, September 12, 1915. No. 18,983. In a pool in a pasture field about six miles west of Pekin. Also noted in a pond about four miles west of Salem.

Solidago erecta Pursh.

Clarke county, September 11, 1915. No. 18,946. On a *Quercus Prinus* Ridge about two miles southwest of Borden. Harrison county, September 6, 1915. No. 18,720. On a *Quercus Prinus* ridge about a half mile west of Stewart's Landing, which is three miles east of Elizabeth. Washington county, September 12, 1915. No. 19,000. On a *Quercus Prinus* ridge about ten miles north of Salem, and about one mile south of the Muscatatuck River. In all the locations where this species was noted it was growing in sterile soil, associated with *Solidago bicolor*.