

DISTRIBUTION RECORDS OF SOUTHERN INDIANA VASCULAR PLANTS III

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ABSTRACT. New collections in the Indiana University Southeast Herbarium, and review of existing collections, yielded eight new vascular plant state records and 120 new county records mainly for Clark, Crawford, Floyd, Harrison, and Jefferson counties in southern Indiana. Indiana vascular plant species listed as state endangered, threatened, or rare are noted.

Keywords: Vascular plants, Indiana, distribution records, county records, state records

The Indiana University Southeast Herbarium contains vascular plant collections primarily from Clark, Crawford, Floyd, Harrison, and Jefferson counties, with occasional collections from other southern Indiana counties. This area of southern Indiana includes the lowermost parts of the Mitchell Karst Plain and Knobstone Escarpment sections of the Highland Rim Natural Region and the Shawnee Hills Natural Region (Homoya et al. 1985).

Revision of county species lists and entry of all mounted herbarium sheets into a computer database have allowed collectors to target species which are potential state or county records. Former and present collectors include Indiana University Southeast students, the authors, and several volunteers. These efforts have yielded many new vascular plant county records since the publication of our previous distribution lists (Maxwell & Thomas 2003; Thomas, Ash & Maxwell 2005).

METHODS

State records and noteworthy collections are listed alphabetically by their scientific names and are briefly discussed, followed by species which are state endangered, threatened, rare, and watch listed. Table 1 includes distribution records with their collection vouchers. Nomenclature and common names follow the USDA Plants Database (USDA 2009). Determination of species status follows the Indiana Natural Heritage Data Center's Endangered, Threatened, and Rare Vascular Plants list, from the Indiana Department of Natural Resources (DNR), Nature Preserves (25 September 2007).

Plants were collected from various sources, including contract surveys for The Nature Conservancy and ongoing searches for state-listed species in area parks and forests. Site information for state-listed species was reported to the Indiana Department of Natural Resources, Division of Nature Preserves. Record vouchers were retained at the Indiana University Southeast herbarium.

STATE RECORDS

Cardamine impatiens L. (Brassicaceae). Narrow Leaved Bittercress. This introduced species, found mainly to the east of Indiana, was discovered in the newly-opened Ohio Riverfront area of Charlestown State Park. This species is considered invasive by most accounts and will likely prove to be a nuisance. Initially these plants were thought confined to a short dirt road along the Ohio River; subsequently, a large population was discovered scattered along a steep rocky ridge nearby. We consider *W.E. Thomas* 2742 the state record voucher.

Hydrocotyle ranunculoides L.f. (Apiaceae). Floating Marshpennywort. A native species just entering Indiana, about a dozen of these creeping plants was discovered growing along the banks of Bryant Creek in Switzerland County. The plants were found in a still backwater area of the boat ramp located near the mouth of the creek. We consider *W.E. Thomas* 2853 the state record voucher.

Impatiens balsamina L. (Balsaminaceae). Spotted Snapweed. This introduced species was found in the Muscatatuck River bottoms in the Sage's Ferry area along the old portion of SR 256 now used for access to the river. We

Table 1.—State and county records. Abbreviations: SX = State Extirpated, SE = State Endangered, ST = State Threatened, SR = State Rare, WL = Watch List, s.n. = (*sine numero*) without a number, followed by the collection date. An asterick (*) preceding the species name indicates an introduced species.

Species name	Family	County	Collector and number (Date)
<i>Acalypha deamii</i> (Weath.) H.E. Ahles (SR)	Euphorbiaceae	Crawford	W.E. Thomas 2159 (10 Sep 2005)
		Vanderburgh	W.E. Thomas 2899 (24 Oct 2007)
(*) <i>Achyranthes japonica</i> (Miq.) Nakai	Amaranthaceae	Perry	W.E. Thomas 2254 (14 Oct 2005)
		Switzerland	W.E. Thomas 2859 (15 Sep 2007)
		Vanderburgh	W.E. Thomas 2898 (24 Oct 2007)
		Warrick	W.E. Thomas 2901 (24 Oct 2007)
<i>Allium burdickii</i> (Hanes) A.G. Jones	Liliaceae	Floyd	W.R. Adams 116 (4 Jun 2006)
<i>Anoda cristata</i> (L.) Schltld.	Malvaceae	Harrison	W.E. Thomas 2638 (20 Oct 2006)
(*) <i>Arthraxon hispidus</i> (Thunb.) Makino	Poaceae	Clark	W.E. Thomas 2869 (19 Sep 2007)
		Floyd	W.E. Thomas 620 (14 Oct 2002)
<i>Asclepias viridis</i> Walter (SE)	Asclepiadaceae	Clark	W.E. Thomas 2730 (27 May 2007)
<i>Azolla caroliniana</i> Willd. (ST)	Azollaceae	Clark	W.E. Thomas 2436 (30 Jul 2006)
		Switzerland	W.E. Thomas 2851 (15 Sep 2007)
<i>Bothriochloa laguroides</i> (DC.) Herter <i>subsp.</i>	Poaceae	Clark	W.E. Thomas 2829 (26 Aug 2007)
<i>torreyana</i> (Steud.) Allred & Gould		Floyd	W.E. Thomas 2826 (25 Aug 2007)
		Scott	W.E. Thomas 2831 (27 Aug 2007)
(*) <i>Bromus inermis</i> Leysser	Poaceae	Harrison	H.C. Curtis 59 (19 May 2003)
(*) <i>Bromus sterilis</i> L.	Poaceae	Harrison	H.C. Curtis 252 (9 May 2004)
(*) <i>Cardamine impatiens</i> L.	Brassicaceae	Clark	W.E. Thomas 2742 (4 Jun 2007)
<i>Carex aggregata</i> Mackenzie	Cyperaceae	Harrison	H.C. Curtis 258 (16 May 2004)
		Scott	H.C. Curtis 257 (15 May 2004)
<i>Carex albursina</i> Sheldon	Cyperaceae	Clark	W.E. Thomas 1903 (22 Apr 2005)
<i>Carex communis</i> L.H. Bailey	Cyperaceae	Harrison	W.E. Thomas 1210 (28 Mar 2004)
<i>Carex davisii</i> Schwein. & Torr.	Cyperaceae	Harrison	W.E. Thomas 1347 (11 May 2004)
<i>Carex glaucoidea</i> Tuck. ex Olney	Cyperaceae	Harrison	H.C. Curtis 49 (12 May 2003)
<i>Carex grisea</i> Wahlenb.	Cyperaceae	Harrison	Toni Gettmaker 100 (3 Jun 1985)
<i>Carex mesochorea</i> Mack.	Cyperaceae	Harrison	H.C. Curtis 363 (28 May 2005)
<i>Carex plantaginea</i> Lam.	Cyperaceae	Clark	W.E. Thomas 1905 (22 Apr 2005)
<i>Carex prasina</i> Wahlenb.	Cyperaceae	Crawford	H.C. Curtis 401 (6 May 2006)
<i>Carex retroflexa</i> Muhl. ex Willd.	Cyperaceae	Crawford	H.C. Curtis 272 (23 May 2004)
<i>Carex shortiana</i> Dewey	Cyperaceae	Harrison	W.E. Thomas 1329 (8 May 2004)
<i>Carex stipata</i> Muhl. ex Willd.	Cyperaceae	Clark	W.E. Thomas 1383 (20 May 2004)
(*) <i>Centaurea stoebe</i> L.	Asteraceae	Harrison	H.C. Curtis 313 (11 Jul 2004)
(*) <i>Ceratocephala testiculata</i> (Crantz) Roth	Ranunculaceae	Floyd	W.E. Thomas 1887 (21 Apr 2005)

Table 1.—Continued.

Species name	Family	County	Collector and number (Date)
<i>Coreopsis lanceolata</i> L.	Asteraceae	Clark	W.E. Thomas 2724 (26 May 2007)
		Harrison	H.C. Curtis 265 (20 May 2004)
<i>Coreopsis tinctoria</i> Nutt.	Asteraceae	Clark	H.C. Curtis 314 (12 Jul 2004)
<i>Cuscuta coryli</i> Engelm.	Cuscutaceae	Harrison	W.E. Thomas 2219 (3 Oct 2005)
<i>Cuscuta indecora</i> Choisy (SE)	Cuscutaceae	Harrison	W.E. Thomas 2237 (8 Oct 2005)
<i>Cuscuta obtusiflora</i> Kunth var. <i>glandulosa</i> Engelm.	Cuscutaceae	Harrison	Thomas, Taylor & Maxwell 2132 (22 Aug 2005)
<i>Cuscuta pentagona</i> Engelm. var. <i>pentagona</i>	Cuscutaceae	Crawford	W.E. Thomas 2070 (30 Jul 2005)
<i>Cuscuta polygonorum</i> Engelm.	Cuscutaceae	Clark	W.E. Thomas 2110 (12 Aug 2005)
		Floyd	W.E. Thomas 1766 (14 Sep 2004)
		Harrison	W.E. Thomas 2238 (8 Oct 2005)
<i>Cyperus acuminatus</i> Torr. & Hook. ex Torr. (WL)	Cyperaceae	Clark	W.E. Thomas 3012 (31 Jul 2008)
		Harrison	W.E. Thomas 2462 (9 Aug 2006)
<i>Cyperus erythrorhizos</i> Muhl.	Cyperaceae	Harrison	H.C. Curtis 390 (9 Oct 2005)
<i>Cyperus squarrosus</i> L.	Cyperaceae	Clark	W.E. Thomas 2108 (12 Aug 2005)
		Crawford	W.E. Thomas 2117 (13 Aug 2005)
		Harrison	W.E. Thomas 2041 (9 Jul 2005)
		Floyd	W.E. Thomas 2107 (10 Aug 2005)
<i>Diodia virginiana</i> L. (WL)	Rubiaceae	Jefferson	W.E. Thomas 1618 (15 Aug 2004)
		Monroe	W.E. Thomas 2620 (8 Oct 2006)
		Ohio	W.E. Thomas 2141 (27 Aug 2005)
		Orange	W.E. Thomas 2126 (18 Aug 2005)
		Perry	W.E. Thomas 1024 (9 Aug 2003)
<i>Eleocharis palustris</i> (L.) Roem. & Schult.	Cyperaceae	Floyd	W.E. Thomas 2090 (3 Aug 2005)
<i>Euphorbia spathulata</i> Lam. (SE)	Euphorbiaceae	Washington	W.E. Thomas 2349 (4 Jun 2006)
(*) <i>Fatoua villosa</i> (Thunb.) Nakai	Moraceae	Clark	Thomas & Maxwell 605 (30 Sep 2002)
		Harrison	W.E. Thomas 2587 (16 Sep 2006)
<i>Floerkea proserpinacoides</i> Willd.	Limnanthaceae	Clark	R.H. Maxwell 2243 (17 Apr 1985)
		Scott	H.C. Curtis 13 (20 Apr 2003)
<i>Geum virginianum</i> L.	Rosaceae	Clark	R.H. Maxwell 1483 (18 Jun 1977)
<i>Helianthus grosseserratus</i> M. Martens	Asteraceae	Floyd	W.E. Thomas 3104 (9 Sep 2008)
(*) <i>Heliotropium indicum</i> L.	Boraginaceae	Crawford	W.E. Thomas 2223 (4 Oct 2005)
		Harrison	W.E. Thomas 1670 (21 Aug 2004)
(*) <i>Hibiscus trionum</i> L.	Malvaceae	Harrison	J. Swarens 82 (13 Jul 1976)
<i>Humulus lupulus</i> L.	Cannabaceae	Crawford	W.E. Thomas 2018 (27 Jun 2005)
		Harrison	W.E. Thomas 2035 (8 Jul 2005)

Table 1.—Continued.

Species name	Family	County	Collector and number (Date)
<i>Huperzia lucidula</i> (Michx.) Trevisan	Lycopodiaceae	Jefferson	W.R. Adams 126 (20 Jun 2007)
(*) <i>Hydrilla verticillata</i> (L.f.) Royle	Hydrocharitaceae	Clark	W.E. Thomas 3122 (22 Sep 2008)
<i>Hydrocotyle ranunculoides</i> L. f.	Apiaceae	Switzerland	W.E. Thomas 2853 (15 Sep 2007)
(*) <i>Impatiens balsamina</i> L.	Balsaminaceae	Washington	H.C. Curtis 322 (30 Aug 2004)
(*) <i>Ipomoea quamoclit</i> L.	Convolvulaceae	Ohio	W.E. Thomas 2489 (20 Aug 2006)
(*) <i>Kickxia elatine</i> (L.) Dumort.	Scrophulariaceae	Floyd	Bickley, Campbell & Huth 2 (23 Jul 2007)
(*) <i>Kyllinga gracillima</i> Miq.	Cyperaceae	Clark	W.E. Thomas 3058 (18 Aug 2008)
		Floyd	W.E. Thomas 2209 (30 Sep 2005)
		Jefferson	W.E. Thomas 3148 (20 Oct 2008)
<i>Kyllinga pumila</i> Michx.	Cyperaceae	Harrison	W.E. Thomas 2214 (3 Oct 2005)
<i>Lipocarpha micrantha</i> (Vahl.) G. Tucker	Cyperaceae	Harrison	W.E. Thomas 2212 (3 Oct 2005)
<i>Ludwigia leptocarpa</i> (Nutt.) H. Hara	Onagraceae	Harrison	W.E. Thomas 2218 (3 Oct 2005)
(*) <i>Mazus pumilus</i> (Burm. f.) Steenis	Scrophulariaceae	Clark	W.E. Thomas 2614 (2 Oct 2006)
		Floyd	W.E. Thomas 3145 (18 Oct 2008)
<i>Myosurus minimus</i> L.	Ranunculaceae	Floyd	W.E. Thomas 1886 (21 Apr 2005)
<i>Najas gracillima</i> (A. Braun ex Engelm.)	Najadaceae	Clark	W.E. Thomas 2144 (29 Aug 2005)
Magnus (ST)		Scott	W.E. Thomas 2054 (17 Jul 2005)
<i>Paspalum fluitans</i> (Ell.) Kunth	Poaceae	Clark	W.E. Thomas 3068 (20 Aug 2008)
<i>Platanthera clavellata</i> (Michx.) Luer (WL)	Orchidaceae	Washington	W.E. Thomas 2453 (3 Aug 2006)
<i>Platanthera lacera</i> G. Don	Orchidaceae	Harrison	W.E. Thomas 2375 (19 Jun 2006)
(*) <i>Poa trivialis</i> L.	Poaceae	Harrison	H.C. Curtis 303 (13 Jun 2004)
<i>Polygonum amphibium</i> L.	Polygonaceae	Clark	W.R. Adams 151 (15 Jul 2008)
<i>Proserpinaca palustris</i> L.	Haloragaceae	Clark	W.E. Thomas 2960 (6 Jun 2008)
<i>Prunus angustifolia</i> Marshall	Rosaceae	Harrison	H.C. Curtis 343 (17 Apr 2005)
<i>Pyrrhopappus carolinianus</i> (Walter) DC.	Asteraceae	Crawford	W.E. Thomas 2814 (18 Aug 2007)
(*) <i>Ranunculus parviflorus</i> L.	Ranunculaceae	Clark	W.E. Thomas 2693 (10 May 2007)
		Floyd	W.E. Thomas 2334 (19 May 2006)
		Harrison	W.E. Thomas 2916 (22 Apr 2008)
<i>Rhexia mariana</i> L. var. <i>mariana</i> (ST)	Melastomataceae	Clark	W.E. Thomas 3013 (31 Jul 2008)
<i>Rubus flagellaris</i> Willd.	Rosaceae	Floyd	W.R. Adams 109 (15 Aug 2005)
<i>Salvia reflexa</i> Hornem.	Lamiaceae	Floyd	W.R. Adams 119 (22 Aug 2006)
<i>Schoenoplectus pungens</i> (Vahl) Palla	Cyperaceae	Crawford	W.E. Thomas 2059 (20 Jul 2005)

Table 1.—Continued.

Species name	Family	County	Collector and number (Date)
<i>Schoenoplectus purshianus</i> (Fern.) M. T. Strong (SR)	Cyperaceae	Crawford Perry Scott Washington	W.E. Thomas 2812 (18 Aug 2007) W.E. Thomas 2824 (22 Aug 2007) W.E. Thomas 1137 (13 Sep 2003) W.E. Thomas 2876 (24 Sep 2007)
<i>Schoenoplectus smithii</i> (A. Gray) Soják (SE)	Cyperaceae	Clark	C.W. Henson 8 (31 Aug 1975)
<i>Schoenoplectus tabernaemontani</i> (C.C. Gmel.) Palla	Cyperaceae	Floyd	Ray Weatherholt 1574 (24 Jun 1969)
<i>Scirpus georgianus</i> Harper	Cyperaceae	Crawford	W.E. Thomas 1469 (22 Jun 2004)
(*) <i>Senecio vulgaris</i> L.	Asteraceae	Floyd	W.E. Thomas 730 (18 Apr 2003)
(*) <i>Sherardia arvensis</i> L.	Rubiaceae	Clark Floyd Warrick	R.B. Lyons 1 (15 Jun 2008) W.E. Thomas 2003 (19 Jun 2005) W.E. Thomas 2394 (2 Jul 2006)
<i>Sibara virginica</i> (L.) Rollins	Brassicaceae	Jefferson	W.E. Thomas 1198 (26 Mar 2004)
<i>Strophostyles leiosperma</i> (Torr. & A. Gray) Piper (ST)	Fabaceae	Clark	W.E. Thomas & R. Lyons 3017 (1 Aug 2008)
<i>Thelypteris noveboracensis</i> (L.) Nieuwl.	Thelypteridaceae	Floyd	W.R. Adams 111 (22 Aug 2005)
<i>Triadenum tubulosum</i> (Walter) Gleason	Clusiaceae	Jefferson	W.R. Adams 132 (18 Aug 2007)
<i>Veronica anagallis-aquatica</i> L.	Scrophulariaceae	Clark	W.E. Thomas 2111 (12 Aug 2005)
(*) <i>Vicia tetrasperma</i> (L.) Schreb.	Fabaceae	Clark	W.E. Thomas 1986 (13 Jun 2005)
<i>Woodwardia areolata</i> (L.) T. Moore (SR)	Blechnaceae	Clark	W.R. Adams 131 (14 Jul 2007)
<i>Zannichellia palustris</i> L. (SR)	Zannichelliaceae	Washington	W.E. Thomas 2968 (7 Jun 2008)

consider *H.C. Curtis* 322 the state record voucher.

Ipomoea quamoclit L. (Convolvulaceae). Cypressvine. This introduced species was observed and photographed in the wild at Falls of the Ohio State Park in September of 2001, but the plants at that site did not persist. The Ohio County collection was from a population at a public boat ramp along the Ohio River in Rising Sun. We consider *W.E. Thomas* 2489 the state record voucher.

Kyllinga gracillima Miq. (Cyperaceae). Pasture Spikesedge. This small introduced weedy sedge, considered invasive by many authors, seems partial to moist depressions in open mowed grassy areas such as parks and athletic fields. The plant was discovered to be common in five Floyd County parks. One additional site in Floyd County was found at the Mount Saint Francis Retreat Center. The Clark County record collection was from a small park in Clarksville. Additional collections were made in Clark County, all with habitat identical to that of the Floyd County sites. The Jefferson County collection was from a small park in Madison where the plants were abundant around the moist edges of a fishing lake and lining nearby ditches. We consider *W.E. Thomas* 2209 the state record voucher.

Mazus pumilus (Burm. F.) Steenis (Scrophulariaceae). Japanese Mazus. The first Indiana collection of this introduced Asian weed was in Martin County by Steve Dunbar. (*Steve Dunbar* 8, Martin County, 8 Aug 2001, IND). We consider this collection the state record. The collections *W.E. Thomas* 2614 and *W.E. Thomas* 3145 provide vouchers for the species in Clark and Floyd counties, respectively.

Ranunculus parviflorus L. (Ranunculaceae). Smallflower Buttercup. This introduced species seems to be a weed of open grassy areas and was first discovered in a Floyd County park. Small populations of the species were later found in cemeteries near Henryville in Clark County and at Evans Landing in Harrison County. We consider *W.E. Thomas* 2334 the state record voucher.

Sherardia arvensis L. (Rubiaceae). Blue Field Madder. This introduced plant is found in open mowed grassy areas. Thomas collected the species from Mount Saint Francis Retreat Center in New Albany, Floyd County, and from the Newburgh Lock and Dam Overlook Park in Warrick County. The plant was not

abundant at either site. Additional collections were made in Monroe County on 25 May 2008 by the *Yatskievychs* (*Kay Yatskievych and George Yatskievych* 2008-06, IND), and in Clark County by Richard Lyons. We consider *W.E. Thomas* 2003 the state record voucher.

NOTEWORTHY COLLECTIONS

Achyranthes japonica (Miq.) Nakai (Amaranthaceae). Japanese Chaff Flower. This introduced weed, seemingly limited to the Ohio River floodplain areas, was first reported for Indiana by Maxwell & Thomas (2003). The Indiana University Southeast Herbarium holds voucher specimens for Clark, Crawford, Floyd, Harrison, & Jefferson counties. The collections *W.E. Thomas* 2254, 2859, 2898 & 2901 will add confirmation vouchers for the Indiana counties of Perry, Switzerland, Vanderburgh, and Warrick, respectively.

Fatoua villosa (Thunb.) Nakai (Moraceae). Hairy Crabweed. This introduced species has been collected from three sites in Harrison County, one in Clark County and three in Floyd County. The Harrison County collection was made from an extensive population along Kintner Bottoms Road in the southern part of the county.

Hydrilla verticillata (L.f.) Royle (Hydrocharitaceae). Waterthyme. The Clark County collection of this introduced species was made along the banks of Fourteen Mile Creek, a tributary of the Ohio River, within Charles-town State Park. The plants were rooted in the shallow edge of the creek. Fourteen Mile Creek for most of its length through the park is essentially a still backwater area of the Ohio River, perhaps providing more suitable habitat for the plant than the Ohio River proper.

INDIANA STATE ENDANGERED

Asclepias viridis Walter. (Asclepiadaceae). Green Antelopehorn. Three populations of this species were found along the roadside in Charlestown State Park.

Cuscuta indecora Choisy (Cuscutaceae). Big-seed Alfalfa Dodder. First reported for Indiana by Thomas et al. (2005), this dodder has now been determined to be in Harrison County.

Euphorbia spathulata Lam. (Euphorbiaceae). Warty Spurge. Thomas found a small population of this species on a Nature Conservancy Forest Bank easement in Washington County.

Schoenoplectus smithii (A. Gray) Soják (Cyperaceae). Smith's Bulrush. The Clark County collection was from the Clark State Forest.

INDIANA STATE THREATENED

Azolla caroliniana Willd. (Azollaceae). Eastern Mosquitofern. The Clark County collection of this aquatic fern was from a small lake in a Jeffersonville city park where it covered most of the lake surface. A smaller and likely episodic patch of this fern was discovered in a still water pool along Bryant Creek at a boat ramp near the Ohio River in Switzerland County.

Najas gracillima (A. Braun ex Engelm.) Magnus (Najadaceae). Slender Waternymph. The Clark County collection listed in Table 1 was from Oak Lake and the Scott County collection from Shaw Lake, both within the Clark State Forest. Subsequent Clark County collections of the species were made from Schlamm and Franke lakes also within the Clark State Forest.

Rhexia mariana L. var. *mariana* (Melastomataceae). Maryland Meadowbeauty. This species was discovered in a disturbed vacant lot in the north end of Jeffersonville.

Strophostyles leiosperma (Torr. & A. Gray) Piper. (Fabaceae). Slickseed Fuzzybean. Populations of this species were discovered on two vacant lots in the north end of Jeffersonville.

INDIANA STATE RARE

Acalypha deamii (Weath.) H.E. Ahles (Euphorbiaceae). Deam's Threeseed Mercury. This species seems well-established in the southern part of the state. The Crawford County collection was from a small tract of the Harrison-Crawford State Forest along the Turkey Fork of the Little Blue River. Additional Crawford County collections of the species were made from a large population along the Blue River south of Wyandotte, also within the Harrison-Crawford State Forest. In Vanderburgh County the plant was found in a wooded area along the Ohio River southwest of Angel Mounds State Park.

Schoenoplectus purshianus (Fern.) M.T. Strong (Cyperaceae). Weakstalk Bulrush. This plant is commonly found on the banks of man-made reservoirs. In Scott County large populations of this bulrush were found growing along the dam of Wilcox Lake in the Clark State Forest. A smaller population was located within the Quick Creek Marsh area below the dam at Hardy Lake. In Crawford County the

plant was very abundant along the shoreline of the cove running east of the Little Patoka boat ramp. In Perry County the plant was doing well around the edges of a small pond along State Road 37. In Washington County the plant was found along the shoreline of the Spurgeon Hollow impoundment.

Woodwardia areolata (L.) T. Moore (Blechnaceae). Netted Chain Fern. The Clark County collection of this species was made from the shoreline of Schlamm Lake in the Clark State Forest.

Zannichellia palustris L. (Zannichelliaceae). Horned Pondweed. The Washington County collection of this species was from Lake Saligna, a City of Salem public reservoir just south of town. The plants were common around the edges of the lake near the dam.

INDIANA STATE WATCH LIST

Cyperus acuminatus Torr. & Hook. ex Torr. (Cyperaceae). Tapertip Flatsedge. A small population of perhaps six plants was found along Wulfman Road in Harrison County. The plants were colonizing the wet perimeter of a large persistent mud-hole. In Clark County collections were made from several sites where the plant showed an affinity for the same mud-hole type environment.

Diodia virginiana L. (Rubiaceae). Virginia Buttonweed. The Jefferson, Ohio and Perry county collections of this species were from sandy Ohio River shoreline areas, a habitat where the plant thrives. In Orange and Monroe counties the plant was found in low-lying wet fields and moist edges of lakes.

Platanthera clavellata (Michx.) Luer (Orchidaceae). Small Green Wood Orchid. A population of about 30 plants was found on a Nature Conservancy Forest Bank easement in Washington County.

Veratrum woodii J.W. Robbins ex Alph. Wood (Liliaceae). Wood's Bunchflower. This species was observed by William Adams and collected by Thomas on two different Nature Conservancy Forest Bank easements in Harrison County. The observed county record was in a population near Lanesville. The Thomas collection was made from a much larger site along Mosquito Creek.

ERRATA

In Thomas et al. (2005) we reported *Iva xanthifolia* Nutt. from Clark and Floyd coun-

ties. The collections *W.E. Thomas & R.H. Maxwell 605* and *W.E. Thomas 1114* were later determined to be *Fatoua villosa* (Thunb.) Nakai. We regret any problems resulting from these misidentifications.

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