

Final Report:

**Survey and Update of Historical Element Occurrence Records
for Plants in Region 5 of the Illinois Department of Natural Resources**

Date: December 27, 2013

Grant agreement number: 14-L03W

Grantee name, address, and telephone:

John White, Ecological Services, 904 South Anderson Street, Urbana, Illinois 61801;
(217)344-5041

Time-frame of the report: July to December 2013

Name and email address of grantee's representative completing the report:

John White; John.Jack.White@gmail.com

Project objective: The objective was to update information on at least 80 historical plant occurrences in Region 5 of the Illinois Department of Natural Resources.

Completed project description: The project documented 100 element occurrences with Plant EOR Field Data Forms, which were submitted to the Illinois Department of Natural Resources. A total of 102 forms were completed because two of the largest element occurrences required two forms.

Summary of project accomplishments: See the accompanying Supplemental Report.

Deliverables of five to ten digital images depicting the study species, project site, project activities, or other aspects of the project: Digital photographs accompany the Plant EOR Field Data Forms.

List of wildlife and/or native plant resources (by species) that benefited from the project and how they benefited: *Amorpha nitens* (Smooth False Indigo), *Asplenium bradleyi* (Bradley's Spleenwort), *Berchemia scandens* (Supple-Jack), *Calamagrostis insperata* (Reed Bent Grass), *Carex bromoides* (Brome Sedge), *Carex communis* (Fibrous-rooted Sedge), *Carex intumescens* (Swollen Sedge), *Carex oxylepis* (Sharp-scaled Sedge), *Carex physorhyncha* (Bellows-beak Sedge), *Carex plantaginea* (Plantain-leaved Sedge), *Carex willdenowii* (Willdenow's Sedge), *Carya aquatica* (Water Hickory), *Chamaelirium luteum* (Fairy Wand), *Chimaphila maculata* (Spotted Wintergreen), *Cimicifuga rubifolia* (Black Cohosh), *Cynosciadium digitatum* (Finger Dog-shade), *Dennstaedtia punctilobula* (Hay-scented Fern), *Dodecatheon frenchii* (French's Shooting Star), *Eryngium prostratum* (Eryngo), *Euonymus americanus* (American Strawberry Bush), *Glyceria arkansana* (Arkansas Manna Grass), *Halesia carolina* (Silverbell), *Heteranthera reniformis* (Kidney-leaf Mud Plantain), *Hexalectris spicata* (Crested Coralroot Orchid), *Huperzia porophila* (Cliff Clubmoss), *Hydrolea uniflora* (One-flowered Hydrolea), *Isotria verticillata* (Whorled Pogonia Orchid), *Liatris scariosa* var. *nieuwlandii* (Savanna Blazing Star), *Lysimachia fraseri* (Fraser's Loosestrife), *Matelea decipiens* (Old-field Climbing Milkweed), *Melanthium*

virginicum (Bunchflower), *Melothria pendula* (Squirting Cucumber), *Nemophila triloba* (Baby Blue-eyes), *Penstemon tubaeiflorus* (Tube Beard-tongue), *Planera aquatica* (Water Elm), *Ptilimnium nuttallii* (Mock Bishop's Weed), *Quercus phellos* (Willow Oak), *Rhexia mariana* (Dull Meadow Beauty), *Rhynchospora glomerata* (Clustered Beaked Rush), *Scleria pauciflora* (Carolina Whipgrass), *Sedum telephioides* (American Orpine), *Spiranthes vernalis* (Spring Ladies' Tresses), *Stenanthium gramineum* (Grass-leaved Lily), *Styrax americana* (Storax), *Talinum parviflorum* (Small Flower-of-an-hour), *Urtica chamaedryoides* (Weak Nettle), and *Vaccinium stamineum* (Deerberry). The above-listed Endangered and Threatened species benefited because the Illinois Department of Natural Resources received updated information about their occurrence in the state so that they can be better protected and managed.

Specific audience affected: Citizens of the State of Illinois.

Measurable outcomes achieved: One hundred element occurrences were documented for rare plants in Region 5 of the Illinois Department of Natural Resources.

List of products resulting from the project: Plant EOR Field Data Forms were completed for the following element occurrences: *Amorpha nitens* 2, *Asplenium bradleyi* 3, *Berchemia scandens* 1, *Calamagrostis insperata* A, *Carex bromoides* A, *Carex communis* 2, *Carex communis* 4, *Carex intumescens* 1, *Carex intumescens* 5, *Carex oxylepis* 1, *Carex oxylepis* 2, *Carex oxylepis* 3, *Carex oxylepis* 4, *Carex oxylepis* A, *Carex physorhyncha* 2, *Carex plantaginea* 2, *Carex willdenowii* 3, *Carex willdenowii* 10, *Carya aquatica* 4, *Carya aquatica* A, *Chamaelirium luteum* 3, *Chamaelirium luteum* 7, *Chimaphila maculata* 2, *Chimaphila maculata* A, *Cimicifuga rubifolia* 14, *Cynoscium digitatum* 2, *Cynoscium digitatum* 3, *Dennstaedtia punctilobula* 6, *Dennstaedtia punctilobula* A, *Dodecatheon frenchii* 2, *Dodecatheon frenchii* 7, *Dodecatheon frenchii* 8, *Dodecatheon frenchii* 10, *Dodecatheon frenchii* 15, *Dodecatheon frenchii* 16, *Dodecatheon frenchii* 20, *Dodecatheon frenchii* A, *Dodecatheon frenchii* B, *Eryngium prostratum* 3, *Eryngium prostratum* 5, *Euonymus americanus* A, *Glyceria arkansana* 4, *Halesia carolina* 2, *Heteranthera reniformis* 3, *Hexalectris spicata* 1, *Huperzia porophila* 3, *Huperzia porophila* 5, *Hydrolea uniflora* 1, *Hydrolea uniflora* 2, *Hydrolea uniflora* 3, *Isotria verticillata* A, *Liatris scariosa nieuwlandii* 28, *Lysimachia fraseri* A, *Matelea decipiens* 2, *Matelea decipiens* A, *Melanthium virginicum* 14, *Melothria pendula* 4, *Melothria pendula* 5, *Melothria pendula* 6 (two Plant EOR Field Data Forms), *Melothria pendula* 10, *Melothria pendula* 11, *Melothria pendula* A, *Melothria pendula* B, *Nemophila triloba* 1, *Penstemon tubaeiflorus* 5, *Penstemon tubaeiflorus* 6, *Planera aquatica* 7, *Ptilimnium nuttallii* 3, *Quercus phellos* 1, *Quercus phellos* 8, *Rhexia mariana* 3, *Rhexia mariana* 4, *Rhexia mariana* 5, *Rhexia mariana* 6, *Rhexia mariana* 7, *Rhexia mariana* 8, *Rhexia mariana* A, *Rhynchospora glomerata* A, *Scleria pauciflora* 4, *Scleria pauciflora* 10, *Sedum telephioides* 2, *Sedum telephioides* 6, *Sedum telephioides* 8, *Sedum telephioides* 11, *Spiranthes vernalis* 3, *Stenanthium gramineum* 1, *Styrax americana* 9, *Styrax americana* 14, *Talinum parviflorum* 2, *Talinum parviflorum* 3 (two Plant EOR Field Data Forms), *Talinum parviflorum* 6, *Talinum parviflorum* 7, *Talinum parviflorum* A, *Talinum parviflorum* B, *Urtica chamaedryoides* 2, *Urtica chamaedryoides* 3, *Urtica chamaedryoides* 4, *Urtica chamaedryoides* 5, *Vaccinium stamineum* 1, and *Vaccinium stamineum* 2.

Supplemental Report:
**Survey and Update of Historical Element Occurrence Records
for Plants in Region 5 of the Illinois Department of Natural Resources**

December 2013

John White *

Introduction

I carried out a survey to update historical element occurrence records (EORs) of plants in Region 5 of the Illinois Department of Natural Resources. An occurrence was classified as historical if it had not been field-checked and verified for more than 10 years.

Methods

The project used the methods detailed in the *Guidebook for Endangered Species Inventories*.[†] In summary: (1) gather background information about the identification, life history, and ecology of each target species; (2) compile the existing information about each historical occurrence from the Natural Heritage Database, herbaria, literature, and knowledgeable individuals; (3) carry out field searches and document each occurrence; and (4) prepare a final report.

Fieldwork was carried out in July and August of 2013. The identity of each species was verified by relying on personal knowledge, botanical manuals, herbarium specimens, Internet resources, and consultation with other botanists.

Results and Discussion

Accompanying this report are a set of forms and photographs that document the current condition of the element occurrences (EOs). I surveyed and documented 82 historical EOs and 18 other EOs. The results are summarized in a table on pages 4 and 5.

Following is a discussion of headings and entries in the table that may not be self-explanatory.

EO# (element occurrence number).—In 18 instances, I reported an element occurrence but did not know the correct number to assign to it. In most of those instances, the occurrence may not have yet been recorded in the Natural Heritage Database. I assigned a letter A or B in place of a number to distinguish those occurrences.

Location.—I gave an *ad hoc* site name to each occurrence.

* Report for the Illinois Wildlife Preservation Fund by Ecological Services, 904 South Anderson Street, Urbana, Illinois.

[†] John White. 1993. *Guidebook for Endangered Species Inventories*. Illinois Department of Conservation, Springfield. 53 p.

Verification.—I annotated each occurrence as either *Found* or *Not found*.

Likelihood of being present.—If I did not find a plant at a site, I estimated the likelihood that it was present but undetected by using these annotations:

Not present
Probably not present
May not be present
May be nearby
May be present
Probably present

Not present means that I think it is safe to conclude that the species no longer occurs at the site. The other annotations indicate increasing probability, in my estimation, that the plant still occurs at or near the historical EO.

Reason why the EO was not found.—If there was an obvious reason why I did not find an EO, I stated the reason in this column.

Method.—In this column I stated the primary method that I used to verify each EO. Although I recorded *Interview* or *Herbarium exam* for relatively few of the EOs, I interviewed knowledgeable botanists and searched herbaria for information regarding most of the EOs before I searched for them in the field.

Date.—This is the date when I documented the EO.

Ownership.—IDNR = Illinois Department of Natural Resources, USF&WS = U.S. Fish and Wildlife Service, USFS = U.S. Forest Service, RR = a railroad company.

Category.—I assigned each element occurrence to one of four categories to set survey priorities:

Pre-1991.—I gave priority to surveying the oldest occurrences, *i.e.* ones that were last verified prior to 1991 (dating back to as early as 1941).

1991–93.—During most of the project, I sought only the oldest (pre-1991) EOs. However, the locations of many of those EOs were vaguely documented, and it proved extraordinarily time-consuming or impractical to search for some of them. Consequently I expanded the list of priority occurrences slightly to include ones that were last reported between 1991 and 1993.

Nearby.—I documented several occurrences that were more recent than 1993 because they were near a priority EO or were along the route to a priority EO, and it was efficient to survey them at the same time as the priority EO.

New or extra.—I documented 18 additional occurrences that were not on my list of EOs to survey. These included (a) Endangered and Threatened plants that I found while

searching for other EOs that were on my list, and (b) additional EOs that I learned about while interviewing other botanists.

Summary

I searched for 82 historical element occurrences (EOs) and verified that 28 of them (34%) were still present. Of the 54 EOs that I did not find, I concluded that 34 can be safely categorized as no longer extant; the other 20 may still exist even though I could not find them. I could not adequately survey three EOs because the forest around them was blown down by the derecho wind-storm of May 8, 2009, making the area unsafe to traverse and impossible to search thoroughly. In addition to the 82 historical EOs, I documented 18 newer EOs; 16 of those 18 were still extant. The most common reason for disappearance of a rare plant is habitat loss from woody plant succession.

Acknowledgments

Tara Kieninger, Lamma Parrack, and Jody Shimp oversaw this contract for the Illinois Department of Natural Resources. Beth Shimp, John Schwegman, Max Hutchison, Mike Homoya, Bob Edgin, Kathryn Kerr, John Taft, Bill McClain, John Ebinger, Rich Hess, Jody Shimp, John Van Dyke, Andy West, and Eric Ulaszek provided information about historical element occurrences. Beth Shimp and John Schwegman helped search for plants in the field. While I conducted fieldwork, I enjoyed a place to stay and logistical support from Max and Sharon Hutchison and from John and Martha Schwegman. Beth Shimp arranged permission to survey sites on the Shawnee National Forest. Damon Lesmeister arranged for research at Crab Orchard National Wildlife Refuge. Bob Lindsay, Bill Reynolds, Martha Schwegman, John Schwegman, Max Hutchison, Kestner Wallace, Terri Treacy, Judy Dempsey, Gary DeNeal, and Mike Homoya helped me gain access to private lands. Many landowners welcomed me onto their property. Rick Phillippe provided access to the herbaria of the Illinois Natural History Survey and the University of Illinois at Urbana–Champaign. Nancy Garwood provided access to the herbarium at Southern Illinois University Carbondale. Barbara White assisted in every aspect of this project.

ELEMENT OCCURRENCES OF PLANTS IN REGION 5 documented by John White in 2013

Scientific name	EO#	Common name	Location	Verification	Likelihood of being present	Reason why the EO was not found	Method	Date	County	Ownership	Category
<i>Amorpha nitens</i>	2	Smooth False Indigo	Cement Hollow	Not found	Not present		Interview	08/04/13	Pope	Private	Pre-1991
<i>Asplenium bradleyi</i>	3	Bradley's Spleenwort	Pine Hills	Not found	May not be present		Interview	08/12/13	Union	USFS	New or extra
<i>Calamagrostis canadensis</i>	1	Supple-Jack	Sulphur Springs	Found			Interview	08/10/13	Pope	USFS	1991-93
<i>Carex bromoides</i>	A	Reed Bent Grass	Bell Smith Springs	Found			Field search	08/22/13	Pope	USFS	Nearby
<i>Carex communis</i>	2	Brome Sedge	Rock Cave	Not found	May not be present		Field search	08/09/13	Pope	USFS	New or extra
<i>Carex communis</i>	4	Fibrous-rooted Sedge	Bescher City	Not found	May be present		Field search	07/27/13	Effingham	IDNR	Pre-1991
<i>Carex intumescens</i>	1	Fibrous-rooted Sedge	Porter Bottoms	Found			Attempted visit	07/27/13	Fayette	Private	Pre-1991
<i>Carex intumescens</i>	5	Swollen Sedge	Bell Pond	Found			Field search	08/28/13	Johnson	IDNR	1991-93
<i>Carex oxylepis</i>	1	Sharp-scaled Sedge	Bird Spring	Found			Field search	08/26/13	Johnson	USFS, private	Pre-1991
<i>Carex oxylepis</i>	3	Sharp-scaled Sedge	Wildcat Bluff	Found			Field search	08/07/13	Johnson	IDNR	Pre-1991
<i>Carex oxylepis</i>	4	Sharp-scaled Sedge	Cache at Karnak	Found		Woody succession	Field search	08/04/13	Johnson	IDNR, private	Pre-1991
<i>Carex oxylepis</i>	4	Sharp-scaled Sedge	Cypress Creek Refuge	Found			Field search	08/07/13	Johnson	IDNR	Pre-1991
<i>Carex oxylepis</i>	A	Sharp-scaled Sedge	Porter Bottoms	Found			Field search	08/07/13	Union	USF&WS	Pre-1991
<i>Carex physorhyncha</i>	2	Bellows-beak Sedge	Atwood Ridge	Not found	May be nearby	EO was mislocated	Field search	08/28/13	Johnson	IDNR	New or extra
<i>Carex plantaginea</i>	2	Plantain-leaved Sedge	Giant City	Not found	Not present	Species was misidentified	Field search	08/11/13	Union	USFS	Pre-1991
<i>Carex willdenowii</i>	3	Willdenow's Sedge	Bell Smith Springs	Found			Field search	08/03/13	Jackson	IDNR	Pre-1991
<i>Carex willdenowii</i>	10	Willdenow's Sedge	Double Branch Hole	Not found	Probably present		Field search	08/24/13	Pope	USFS	1991-93
<i>Carya aquatica</i>	4	Water Hickory	Balcom	Not found	Not present	Species was misidentified	Herbarium exam	08/06/13	Union	Private	Nearby
<i>Chamaelirium luteum</i>	A	Water Hickory	West Vienna Woods	Found			Field search	08/26/13	Johnson	Public road	Pre-1991
<i>Chamaelirium luteum</i>	3	Fairy Wand	Mermet Lake	Not found	Not present		Field search	08/04/13	Massac	IDNR	New or extra
<i>Chamaelirium luteum</i>	7	Fairy Wand	Burke Branch	Not found	Not present		Field search	08/09/13	Pope	USFS	Pre-1991
<i>Chimaphila maculata</i>	2	Spotted Wintergreen	Lusk Creek	Not found	Not present		Interview	08/10/13	Pope	USFS	Pre-1991
<i>Chimaphila maculata</i>	A	Spotted Wintergreen	Jackson Hollow	Found			Field search	08/26/13	Pope	USFS	New or extra
<i>Cimicifuga rubrifolia</i>	14	Black Cohosh	Boaz	Found			Field search	08/26/13	Pope	USFS	New or extra
<i>Cynoscadium digitatum</i>	2	Finger Dog-shade	Oakwood Bottoms (section 9)	Not found	May not be present	Woody succession	Field search	08/27/13	Massac	Private	Pre-1991
<i>Cynoscadium digitatum</i>	3	Finger Dog-shade	Oakwood Bottoms (section 8)	Not found	Probably not present	Woody succession	Field search	08/29/13	Jackson	USFS	Pre-1991
<i>Dennstaedtia punctilobula</i>	6	Hay-scented Fern	Bell Smith Springs	Found			Field search	08/29/13	Jackson	USFS	1991-93
<i>Dennstaedtia punctilobula</i>	A	Hay-scented Fern	Double Branch Hole	Found			Field search	08/22/13	Pope	USFS	Pre-1991
<i>Dodecatheon frenchii</i>	7	French's Shooting Star	Devil's Kitchen	Not found	Probably present		Field search	08/24/13	Pope	USFS	New or extra
<i>Dodecatheon frenchii</i>	2	French's Shooting Star	Blind Hollow	Not found	May be present		Field search	08/08/13	Williamson	USF&WS	Nearby
<i>Dodecatheon frenchii</i>	8	French's Shooting Star	Midland Hills	Not found	Probably not present	Forest blowdown, Habitat destroyed	Field search	08/23/13	Hardin	Private	Pre-1991
<i>Dodecatheon frenchii</i>	10	French's Shooting Star	Gore Canyon	Not found	Probably not present		Field search	08/12/13	Jackson	Uncertain	Pre-1991
<i>Dodecatheon frenchii</i>	15	French's Shooting Star	Ferne Clyffe, south of Indian Creek	Found			Field search	08/13/13	Johnson	Private	Pre-1991
<i>Dodecatheon frenchii</i>	16	French's Shooting Star	Vienna-Bloomfield	Not found	Probably present	Forest blowdown	Field search	08/13/13	Johnson	Private	Pre-1991
<i>Dodecatheon frenchii</i>	20	French's Shooting Star	Dutchman Lake	Not found	Not present	EO was mislocated	Field search	08/03/13	Jackson	Private	Pre-1991
<i>Dodecatheon frenchii</i>	A	French's Shooting Star	Jackson Hollow	Found			Interview	08/14/13	Johnson	Private	Pre-1991
<i>Eryngium prostratum</i>	3	Eryngo	Crab Orchard Refuge	Not found	Not present	Woody succession	Field search	08/14/13	Johnson	USFS	New or extra
<i>Eryngium prostratum</i>	5	Eryngo	Schwegman neighborhood	Not found	Not present		Field search	08/26/13	Pope	USFS	New or extra
<i>Euonymus americanus</i>	A	American Strawberry Bush	Boaz	Found			Field search	08/05/13	Williamson	USF&WS	1991-93
<i>Glyceria arkansana</i>	4	Arkansas Manna Grass	Route 3	Found			Field search	08/31/13	Massac	Private	Nearby
<i>Halesia carolina</i>	2	Silverbell	Metropolis	Found			Field search	08/27/13	Massac	Private	New or extra
<i>Heteranthera reniformis</i>	3	Kidney-leaf Mud Plantain	Route 3	Not found	May be present		Field search	08/29/13	Union	Public road	Nearby
<i>Hexaletris spicata</i>	1	Crested Coralroot Orchid	Fountain Bluff	Not found	May not be present		Field search	08/27/13	Massac	Private	Pre-1991
<i>Huperzia porophylla</i>	3	Cliff Clubmoss	Jackson Hollow	Not found	May be present		Field search	08/29/13	Union	Private	Nearby
<i>Huperzia porophylla</i>	5	Cliff Clubmoss	Double Branch Hole	Not found	Probably not present	Forest blowdown	Field search	08/11/13	Jackson	Private	Pre-1991
<i>Hydrolea uniflora</i>	1	One-flowered Hydrolea	Winter's Pond	Not found	Probably not present		Field search	08/26/13	Pope	USFS	Pre-1991
<i>Hydrolea uniflora</i>	2	One-flowered Hydrolea	Bell Pond	Not found	Not present		Field search	08/06/13	Union	USFS	Pre-1991
<i>Hydrolea uniflora</i>	3	One-flowered Hydrolea	Route 3	Not found	May be nearby		Field search	08/26/13	Johnson	USFS	Pre-1991
<i>Isotria verticillata</i>	A	Whorled Pogonia Orchid	Azotus	Found			Field search	08/29/13	Jackson	Public road	Nearby
<i>Liatris scariosa newlandii</i>	28	Savanna Blazing Star	Clay County	Found			Interview	08/10/13	Pope	Uncertain	New or extra
<i>Lysimachia fraseri</i>	A	Fraser's Loosetrife	Burke Branch	Not found	Not present		Field search	08/31/13	Clay	Public road	Nearby
<i>Matelea decipiens</i>	2	Old-field Climbing Milkweed	Devil's Kitchen Lake	Found			Field search	08/09/13	Pope	USFS	New or extra
<i>Matelea decipiens</i>	A	Old-field Climbing Milkweed	Cedar Bluff	Found			Field search	08/05/13	Williamson	USF&WS	1991-93
<i>Melanthium virginicum</i>	14	Bunchflower	DeSoto	Not found	Not present	Woody succession, Habitat destroyed	Field search	08/13/13	Johnson	IDNR	New or extra
<i>Melothria pendula</i>	4	Squirting Cucumber	LaRue Swamp -- Railroad	Not found	Not present		Field search	08/03/13	Jackson	Public road, RR	Pre-1991
<i>Melothria pendula</i>	5	Squirting Cucumber	Bell Smith Springs	Not found	Not present		Field search	08/11/13	Union	RR	Pre-1991
								08/22/13	Pope	USFS	Pre-1991

ELEMENT OCCURRENCES OF PLANTS IN REGION 5 documented by John White in 2013. continued

Scientific name	EO#	Common name	Location	Verification	Likelihood of being present	Reason why the EO was not found	Method	Date	County	Ownership	Category
Melothria pendula	6	Squirting Cucumber	Fountain Bluff	Found	Not present	Woody succession	Field search	08/11/13	Jackson	USFS, private	Pre-1991
Melothria pendula	10	Squirting Cucumber	Route 3 (section 1)	Not found	Not present	Woody succession	Field search	08/29/13	Union	Public road, RR	Nearby
Melothria pendula	11	Squirting Cucumber	Route 3 (section 12)	Not found	Not present	Woody succession	Field search	08/29/13	Union	Public road, RR	Nearby
Melothria pendula	A	Squirting Cucumber	Rising Sun	Found			Field search	08/23/13	Hardin	Private	New or extra
Melothria pendula	B	Squirting Cucumber	Karber's Ridge	Found			Field search	08/23/13	Pope	Private	New or extra
Nemophila triloba	1	Baby Blue-eyes	Schwegman neighborhood	Found			Interview	08/31/13	Massac	Private	Nearby
Penstemon tubaeiflorus	5	Tube Beard-tongue	Wheeler	Not found	Not present	Habitat destroyed	Field search	07/27/13	Jasper	Public road, RR	Pre-1991
Penstemon tubaeiflorus	6	Tube Beard-tongue	Lawrenceville	Not found	Not present	Woody succession, Habitat destroyed	Interview	07/31/13	Lawrence	RR	Pre-1991
Planera aquatica	7	Water Elm	West Vienna Woods	Not found	Not present		Field search	08/26/13	Johnson	Private	Pre-1991
Ptilimnium nuttallii	3	Mock Bishop's Weed	Town Creek Road	Not found	Probably not present	Woody succession	Field search	08/29/13	Jackson	Private	1991-93
Quercus phellos	1	Willow Oak	McGhee Flatwoods	Found			Field search	08/31/13	Massac	Private	Pre-1991
Quercus phellos	8	Willow Oak	Brookport	Found			Field search	08/24/13	Massac	Uncertain	1991-93
Rhexia mariana	3	Dull Meadow Beauty	Hallidayboro	Not found	Not present	Woody succession, Invasives	Field search	08/03/13	Jackson	Public road, RR	Pre-1991
Rhexia mariana	4	Dull Meadow Beauty	Crab Orchard Refuge	Found			Field search	08/05/13	Williamson	USF&WS	Pre-1991
Rhexia mariana	5	Dull Meadow Beauty	Kickasola	Not found	Not present	Woody succession	Field search	08/09/13	Pope	USFS	Pre-1991
Rhexia mariana	6	Dull Meadow Beauty	Crab Orchard Refuge	Found			Field search	08/05/13	Williamson	USF&WS	Pre-1991
Rhexia mariana	7	Dull Meadow Beauty	Cartersville (Homoya)	Not found	Not present	Woody succession	Field search	08/12/13	Williamson	Private	Pre-1991
Rhexia mariana	8	Dull Meadow Beauty	Cartersville stripmine	Not found	Not present	Habitat destroyed	Field search	08/05/13	Williamson	Private	Pre-1991
Rhexia mariana	A	Dull Meadow Beauty	Carrier Mills	Found			Interview	08/12/13	Saline	Uncertain	New or extra
Rhynchospora glomerata	A	Clustered Beaked Rush	Bell Smith Springs	Found			Field search	08/22/13	Pope	USFS	New or extra
Scleria pauciflora	4	Carolina Whipgrass	Hayes Creek watershed	Not found	Not present	Woody succession	Field search	08/24/13	Pope	USFS	Pre-1991
Scleria pauciflora	10	Carolina Whipgrass	Crab Orchard Refuge	Not found	Not present	Woody succession	Field search	08/09/13	Williamson	USF&WS	Pre-1991
Sedum telephioideis	2	American Orpine	Sailor Springs	Not found	Not present	Species was misidentified	Herbarium exam	07/27/13	Clay	Private	Pre-1991
Sedum telephioideis	6	American Orpine	Jackson Hollow	Not found	May be present		Field search	08/26/13	Pope	USFS	Pre-1991
Sedum telephioideis	8	American Orpine	Bell Smith Springs	Found			Field search	08/26/13	Pope	USFS	Pre-1991
Sedum telephioideis	11	American Orpine	Cave in Rock	Found			Field search	08/23/13	Hardin	IDNR	Pre-1991
Spiranthes vernalis	3	Spring Ladies' Tresses	Devil's Kitchen Lake	Not found	Not present	Woody succession, Invasives	Field search	08/27/13	Williamson	USF&WS	1991-93
Stenanthium gramineum	1	Grass-leaved Lily	Burke Branch	Not found	Not present	Habitat destroyed	Field search	08/09/13	Pope	USFS	Nearby
Styrax americana	9	Storax	Sielbeck Q Ditch	Not found	Not present	Habitat destroyed	Interview	08/04/13	Massac	Private	Pre-1991
Styrax americana	14	Storax	Bell Pond	Found			Field search	08/26/13	Johnson	USFS	Nearby
Talinum parviflorum	2	Small Flower-of-an-hour	Forman Road	Not found	Not present		Field search	08/04/13	Johnson, Massac	Private	Pre-1991
Talinum parviflorum	3	Small Flower-of-an-hour	Draper's Bluff, Cedar Bluff	Not found	May not be present		Field search	08/13/13	Johnson, Union	IDNR	Pre-1991
Talinum parviflorum	6	Small Flower-of-an-hour	Bell Smith Springs	Not found	May not be present		Field search	08/22/13	Pope	USFS	Pre-1991
Talinum parviflorum	7	Small Flower-of-an-hour	Hayes Creek watershed	Found			Field search	08/24/13	Pope	USFS	Pre-1991
Talinum parviflorum	A	Small Flower-of-an-hour	Gore Canyon	Found			Field search	08/13/13	Johnson	Private	Pre-1991
Talinum parviflorum	B	Small Flower-of-an-hour	Jackson Hollow	Found			Field search	08/22/13	Pope	USFS	New or extra
Urtica chamaedryoides	2	Weak Nettle	Union County Refuge -- East	Not found	Probably not present		Field search	08/06/13	Union	IDNR	Pre-1991
Urtica chamaedryoides	3	Weak Nettle	Union County Refuge -- West	Not found	Not present		Field search	08/29/13	Union	IDNR	Nearby
Urtica chamaedryoides	4	Weak Nettle	Route 3 near Reynoldsville	Not found	Not present		Field search	08/29/13	Union	Uncertain	Nearby
Urtica chamaedryoides	5	Weak Nettle	Route 3 at Ware	Not found	Not present	Woody succession	Field search	08/29/13	Union	Uncertain	Nearby
Vaccinium stamineum	1	Deerberry	Hicks Dome	Found			Field search	08/23/13	Hardin	USFS	Nearby
Vaccinium stamineum	2	Deerberry	Double Branch Hole	Not found	Not present		Field search	08/24/13	Pope	USFS	Pre-1991