

GRANT AGREEMENT #09-020W

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TIME FRAME: 21 August 2008 to 30 June 2009

REPORT COMPLETED BY: Jack Shouba and Ken Johnson

PROJECT OBJECTIVE: To prepare an updated species list and FQA and recommendations for restoration and management.

COMPLETED PROJECT DESCRIPTION:

TROUT VALLEY FEN FLORISTIC QUALITY ASSESSMENT

INTRODUCTION

A fen or seep is a rare and unique natural wetland community which is dependent on subsurface, alkaline water flow rather than surface runoff such as is found in bogs, marshes and other wetlands. Fens are very sensitive to changes in water quantity or quality.

Trout Valley Fen is an approximately 9.8-acre natural area located in the Village of Trout Valley in McHenry County and owned as common property by the Trout Valley Homeowners Association (HOA). Valued for its scenic beauty and natural character, the fen provides a steady supply of clean, cold water to the (artificial) trout ponds that give the village its name. Unfortunately, the fen is being impacted by erosion, sedimentation, invasion by non-native species and inadequate management, but the Village and the HOA are working to address these issues. A Floristic Quality Assessment (FQA) is an important first step to understand existing habitat character and quality.

The basic idea of an FQA is to assess the current condition of an area by recording all of the plants currently present, along with other information. In general terms, a high quality natural area is characterized by a large number of native species, a small number of non-native (also known as adventive or alien) species, and the presence of what are known as "conservative" plants; that is, native plants that are most likely found in undisturbed natural areas. The most conservative plants are highly indicative of high quality natural areas. On the other hand, a disturbed area will have few natives, many non-native weeds, and few if any conservative plants.

HOW IS A PLANT LIST AND FQA HELPFUL TO TROUT VALLEY FEN?

1. The FQA helps document the high quality of the area. This can be helpful in obtaining grants as well as in providing recognition and long-term legal protection for the land.

2. The plant list and FQA score can be used to educate neighbors and Village officials as to the irreplaceable natural resource under their care.
3. The plant list can be used to help guide restoration. Non-native and aggressive native plants should be removed or controlled, while conservative plants should be encouraged.
4. A future FQA with floristic values that trend up would indicate management activities are effective. On the other hand, if the FQA values go down or conservative plants disappear, management activities should be reevaluated.
5. The plants on the list can be checked in *Plants of the Chicago Region* (4th ed.) by Swink and Wilhelm to see what other plants typically grow with them and if the species is known from McHenry County. The plants, particularly the conservative ones, should be documented by photography or collection by a botanist.

RESULTS AND RECOMMENDATIONS

1. The Plant Inventory and Floristic Quality Assessment is included with this report as Table 1. We are also including a brief explanation of how to interpret the data, titled "Floristic Quality Assessment Data". Note that the number of native plants is quite high (135), as is the mean C (conservatism) value (4.6). Together, these result in a very high FQI (Floristic Quality Index) of 53, indicating that this is a significant natural area from a regional perspective.
2. The area is on the McHenry County Natural Areas Inventory.
3. We recommend that the fen be nominated for the Illinois Natural Areas Inventory. Included as Table 3 is an undated inventory and FQA possibly done in 1994. This plant list may have been prepared by Brad Semel and Wayne Schennum, and may have been an effort by the state to include this property on the inventory. The state is now updating the Inventory so we believe the area should be reconsidered. If it qualifies, dedication as an Illinois Nature Preserve should be considered; this would offer the highest level of protection available in the state.
4. A third plant list is included as Table 2. The list was provided to us by the HOA, and represents a plant inventory and FQA completed as part of a wetland delineation of the fen.
5. Table 4 lists 36 native species from the other two plant lists that we did not see in our efforts. There are several possible explanations for this. We may have missed the spot where the plant grows, the plant might have been visible had we visited on a different date, the plant might have been misidentified, or it might have been present previously and is no longer there. This list could serve as a "watch list" to keep looking for these plants.
6. In terms of habitat management, the fen is suffering from erosion, runoff, and siltation. We understand the Village and the HOA are taking steps to alleviate these problems. In addition, native plants are being displaced by non-natives and even some aggressive natives. Trees are increasing in size and shading out plants in many areas. While some non-native plants are not causing problems and may

only be found along trails and the edges of the fen, a number of plants should be on the priority list for removal. These include the native Box-elder and Eastern Cottonwood, as well as the non-native Norway Maple, Japanese Barberry, Winged Euonymus, European Fly Honeysuckle, Multiflora Rose, and European Highbush Cranberry. We have met with some of the neighbors and they seem eager to begin land management activities.

7. We are including a 1939 aerial photo of the site. Other historic aerial photos can be obtained from the McHenry County Soil and Water Conservation District. These photos are sometimes helpful in reconstructing past conditions, such as how much area the tree canopy covered. The District can also furnish information on the soils.

8. We are including a contour map, showing the steep slopes around the edges of the wetland. Woodland and prairie plants grow on these slopes, increasing the diversity of the area and protecting the wetland from runoff. These upland areas are an integral part of the system and should be protected and restored. The ground flora in some areas is depauperate due to shading out by maples and other trees in recent years. Some of the uplands are part of private lots, so it is important to work with the individual homeowners in order to protect the area.

9. We suspect that some rare plants may have been introduced, since they are not otherwise known as indigenous to McHenry County or are not found in this habitat. Foamflower (*Tiarella cordifolia*) and Celandine Poppy (*Stylophorum diphyllum*) would be in this category (Celandine Poppy is commonly planted). Trees like Redbud, Tamarack and the shrub Ninebark are also commonly planted. This possibility must be considered, especially since the property was once part of the Hertz estate and was landscaped by Jens Jensen. If old landscape records could be found, they might shed light on this mystery.

SUMMARY

The Trout Valley Fen is a beautiful, high quality natural area that has suffered some disturbances over the years, yet still shows up very high on a Floristic Quality Assessment. We commend Trout Valley for their interest in preserving this landscape by addressing runoff and siltation issues, and removing invasive plants. We recommend additional efforts to document the history of the area. We also recommend seeking the assistance of the McHenry County Conservation District, the McHenry County Soil and Water Conservation District, the Illinois Department of Natural Resources and the Illinois Nature Preserves Commission. We also recommend continuing to monitor the plants, perhaps repeating the FQA every few years.

FLORISTIC QUALITY ASSESSMENT DATA

The following is a summary of the plant inventory data generated using Wilhelm and Masters' *Floristic Quality Assessment and Computer Applications*, 1999. Plant nomenclature follows Swink and Wilhelm's *Plants of the Chicago Region*, 1994. More information on floristic quality assessment methodology can be found in *Erigenia*, number 15, November, 1997. The results of each inventory are presented in two sections as described below.

Section 1 includes three tables that summarize the inventory assessment data. The table to the left is an analysis of the floristic quality of the project area. In addition to listing the number of native species and total number of species, the mean coefficient of conservatism (MEAN C), floristic quality index (FQI), and mean wetness (MEAN W) values are presented. These are calculated once for native species only, and a second time including adventive species (W/Adventives). The two other tables summarize the number and percent of species in each physiognomic group (A=annual, B=biennial, P=perennial, W=woody, H=herbaceous).

Section 2 includes the plant inventory arranged alphabetically, with each species preceded by its database acronym and coefficient of conservatism (C=0 to 10, weedy to conservative); and followed by its wetness coefficient (W=-5 to +5, wet to dry), corresponding national wetland indicator status (OBL=obligate wetland species, FAC=facultative species, UPL=upland species), physiognomic group, and common name. Adventive species are written in ALL CAPS and have an asterisk (*) for their C value.

The Mean C is the average coefficient of conservatism for the site. The FQI is derived by multiplying Mean C by the square root of the number of species present. In general, sites with FQI values less than twenty are degraded or derelict plant communities, or are very small habitat remnants. Sites with FQI values in the twenties through low thirties suffer from various kinds of disturbance, but generally have potential for habitat restoration and recovery. When sites have FQI values in the middle thirties or higher, one can be confident that there is sufficient native character present for the area to be at least regionally noteworthy. Sites with indices in the middle forties and higher are often also statewide significant natural areas.

TABLE 1

Site: Trout Valley Fen
 Locale: Trout Valley, McHenry County, IL
 Date: May 12, September 5 2008; May 27, 2009
 By: Jack Shouba & Ken Johnson

Table 1 Summary Tables

FLORISTIC QUALITY DATA	Native	135	78.0%	Adventive	38	22.0%
135 NATIVE SPECIES	Tree	17	9.8%	Tree	3	1.7%
173 Total Species	Shrub	8	4.6%	Shrub	11	6.4%
4.6 NATIVE MEAN C	W-Vine	3	1.7%	W-Vine	2	1.2%
3.6 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
53.1 NATIVE FQI	P-Forb	69	39.9%	P-Forb	13	7.5%
46.9 W/Adventives	B-Forb	3	1.7%	B-Forb	3	1.7%
0.6 NATIVE MEAN W	A-Forb	10	5.8%	A-Forb	3	1.7%
0.9 W/Adventives	P-Grass	5	2.9%	P-Grass	3	1.7%
AVG: Faculative (-)	A-Grass	0	0.0%	A-Grass	0	0.0%
	P-Sedge	15	8.7%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	5	2.9%			

Table 2 Species Inventory

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
ACARHO	0 Acalypha rhomboidea	3 FACU	Nt A-Forb	THREE-SEEDED MERCURY
ACENEG	0 Acer negundo	-2 FACW-	Nt Tree	BOX ELDER
ACEPLA	0 ACER PLATANOIDES	5 UPL	Ad Tree	NORWAY MAPLE
ACOCAL	7 Acorus calamus	-5 OBL	Nt P-Forb	SWEET FLAG
ACTRUB	10 Actaea rubra	3 [FACU]	Nt P-Forb	RED BANE BERRY
ADIPED	10 Adiantum pedatum	1 FAC-	Cryptogam	MAIDENHAIR FERN
AEGPOD	0 AEGOPIDIUM PODAGRARIA	0 FAC	Ad P-Forb	GOUTWEED
AESGLA	3 Aesculus glabra	3 [FACU]	Nt Tree	OHIO BUCKEYE
ALLPET	0 ALLIARIA PETIOLATA	0 FAC	Ad B-Forb	GARLIC MUSTARD
ALLCAN	2 Allium canadense	3 FACU	Nt P-Forb	WILD ONION
ALLTRT	7 Allium tricoccum	3 FACU	Nt P-Forb	WILD LEEK
AMBTRI	0 Ambrosia trifida	-1 FAC+	Nt A-Forb	GIANT RAGWEED
AMELAE	8 Amelanchier laevis	5 UPL	Nt Tree	ALLEGHENY SHADBLOW
AMPBRB	4 Amphicarpaea bracteata	0 FAC	Nt P-Forb	UPLAND HOG PEANUT
ANETHA	7 Anemone thalictroides	5 UPL	Nt P-Forb	RUE ANEMONE
ANGATR	7 Angelica atropurpurea	-5 OBL	Nt P-Forb	GREAT ANGELICA
AQUCAN	6 Aquilegia canadensis	1 FAC-	Nt P-Forb	WILD COLUMBINE
ARALAE	5 Arabis laevigata	5 UPL	Nt B-Forb	SMOOTH BANK CRESS
ARCMIN	0 ARCTIUM MINUS	5 UPL	Ad B-Forb	COMMON BURDOCK
ARITRI	4 Arisaema triphyllum	-2 FACW-	Nt P-Forb	JACK-IN-THE-PULPIT
ASACAN	7 Asarum canadense	5 UPL	Nt P-Forb	WILD GINGER
ASTLAT	4 Aster lateriflorus	-2 FACW-	Nt P-Forb	SIDE-FLOWERING ASTER
ASTONT	4 Aster ontarionis	0 FAC	Nt P-Forb	ONTARIO ASTER
ASTUMB	9 Aster umbellatus	-3 FACW	Nt P-Forb	FLAT-TOP ASTER
ATHFIM	8 Athyrium filix-femina michauxii	0 FAC	Cryptogam	LADY FERN
BARVUL	0 BARBAREA VULGARIS	0 FAC	Ad B-Forb	YELLOW ROCKET
BERTHU	0 BERBERIS THUNBERGII	4 FACU-	Ad Shrub	JAPANESE BARBERRY
BIDCON	5 Bidens connata	-5 OBL	Nt A-Forb	PURPLE-STEMMED TICKSEED
BIDFRO	1 Bidens frondosa	-3 FACW	Nt A-Forb	COMMON BEGGAR'S TICKS
CALTPA	5 Caltha palustris	-5 OBL	Nt P-Forb	MARSH MARIGOLD
CXBLAN	1 Carex blanda	0 FAC	Nt P-Sedge	COMMON WOOD SEDGE
CXCEPP	3 Carex cephalophora	3 FACU	Nt P-Sedge	SHORT-HEADED BRACKETED SEDGE
CXCOMO	5 Carex comosa	-5 OBL	Nt P-Sedge	BRISTLY SEDGE
CXGRIS	2 Carex grisea	1 [FAC-]	Nt P-Sedge	WOOD GRAY SEDGE
CXHIRT	5 Carex hirtifolia	5 UPL	Nt P-Sedge	HAIRY WOOD SEDGE
CXHYST	5 Carex hystericina	-5 OBL	Nt P-Sedge	PORCUPINE SEDGE
CXLACU	6 Carex lacustris	-5 OBL	Nt P-Sedge	COMMON LAKE SEDGE
CXPENS	5 Carex pensylvanica	5 UPL	Nt P-Sedge	COMMON OAK SEDGE
CXRADI	6 Carex radiata	1 [FAC-]	Nt P-Sedge	STRAIGHT-STYLED WOOD SEDGE
CXSPAR	3 Carex sparganioides	0 FAC	Nt P-Sedge	LOOSE-HEADED BRACKETED SEDGE

CXSTRI	5	Carex stricta	-5	OBL	Nt	P-Sedge	COMMON TUSsock SEDGE
CXTRIC	7	Carex trichocarpa	-5	OBL	Nt	P-Sedge	HAIRY-FRUITED LAKE SEDGE
CXVULP	2	Carex vulpinoidea	-5	OBL	Nt	P-Sedge	BROWN FOX SEDGE
CARCOR	7	Carya cordiformis	3	[FACU]	Nt	Tree	BITTERNUT HICKORY
CAROVY	5	Carya ovata	3	FACU	Nt	Tree	SHAGBARK HICKORY
CAUTHA	8	Caulophyllum thalictroides	5	UPL	Nt	P-Forb	BLUE COHOSH
CELORB	0	CELASTRUS ORBICULATUS	5	UPL	Ad	W-Vine	ORIENTAL BITTERSWEET
CELSCA	4	Celastrus scandens	5	[UPL]	Nt	W-Vine	CLIMBING BITTERSWEET
CELOCC	3	Celtis occidentalis	1	FAC-	Nt	Tree	HACKBERRY
CERCAN	10	Cercis canadensis	3	FACU	Nt	Tree	REDBUD
CHEALB	0	CHENOPODIUM ALBUM	1	FAC-	Ad	A-Forb	LAMB'S QUARTERS
CIRLUC	1	Circaea lutetiana canadensis	3	FACU	Nt	P-Forb	ENCHANTER'S NIGHTSHADE
CIRARV	0	CIRSIIUM ARVENSE	5	UPL	Ad	P-Forb	FIELD THISTLE
CONMAJ	0	CONVALLARIA MAJALIS	5	UPL	Ad	P-Forb	LILY-OF-THE-VALLEY
CORALT	9	Cornus alternifolia	1	[FAC-]	Nt	Tree	PAGODA DOGWOOD
COROBL	6	Cornus obliqua	-4	FACW+	Nt	Shrub	BLUE-FRUITED DOGWOOD
CRYCAN	2	Cryptotaenia canadensis	0	FAC	Nt	P-Forb	HONEWORT
CYSFRP	6	Cystopteris fragilis protrusa	3	FACU	Cryptogam		FRAGILE FERN
DACGLO	0	DACTYLIS GLOMERATA	3	FACU	Ad	P-Grass	ORCHARD GRASS
DENLAC	5	Dentaria laciniata	3	FACU	Nt	P-Forb	TOOTHWORT
DESCUL	6	Desmodium cuspidatum longifolium	5	UPL	Nt	P-Forb	HAIRY BRACTED TICK TREFOLL
DICUCU	6	Dicentra cucullaria	5	UPL	Nt	P-Forb	DUTCHMAN'S BREECHEs
DRYSPI	8	Dryopteris spinulosa	-2	FACW-	Cryptogam		SPINULOSE SHIELD FERN
ELYVIL	5	Elymus villosus	3	FACU	Nt	P-Grass	SILKY WILD RYE
EPICOL	3	Epilobium coloratum	-5	OBL	Nt	P-Forb	CINNAMON WILLOW HERB
EQUARV	0	Equisetum arvense	0	FAC	Cryptogam		HORSETAIL
ERIPHI	4	Erigeron philadelphicus	-3	FACW	Nt	P-Forb	MARSH FLEABANE
ERYALB	5	Erythronium albidum	5	UPL	Nt	P-Forb	WHITE TROUT LILY
EUOALA	0	EUONYMUS ALATUS	5	UPL	Ad	Shrub	BURNING BUSH
EUOFOR	0	EUONYMUS FORTUNEI	5	UPL	Ad	Shrub	WINTERCREEPER
EUPMAM	4	Eupatorium maculatum	-5	OBL	Nt	P-Forb	SPOTTED JOE PYE WEED
EUPPER	4	Eupatorium perfoliatum	-4	FACW+	Nt	P-Forb	COMMON BONESET
EUPRUG	4	Eupatorium rugosum	5	UPL	Nt	P-Forb	WHITE SNAKEROOT
FRAPEP	5	Fraxinus pennsylvanica	-3	FACW	Nt	Tree	RED ASH
GALCIL	0	GALINSOGA CILIATA	5	UPL	Ad	A-Forb	PERUVIAN DAISY
GALAPA	1	Galium aparine	3	FACU	Nt	A-Forb	ANNUAL BEDSTRAW
GALTRF	5	Galium triflorum	2	FACU+	Nt	P-Forb	SWEET-SCENTED BEDSTRAW
GERMAC	4	Geranium maculatum	5	[UPL]	Nt	P-Forb	WILD GERANIUM
GEUCAN	1	Geum canadense	0	FAC	Nt	P-Forb	WOOD AVENS
GLEHED	0	GLECHOMA HEDERACEA	3	FACU	Ad	P-Forb	CREEPING CHARLIE
GLYSTR	4	Glyceria striata	-3	[FACW]	Nt	P-Grass	FOWL MANNA GRASS
HACVIR	0	Hackelia virginiana	1	FAC-	Nt	B-Forb	STICKSEED
HELDEC	5	Helianthus decapetalus	5	UPL	Nt	P-Forb	PALE SUNFLOWER
HELSTR	5	Helianthus strumosus	5	UPL	Nt	P-Forb	PALE-LEAVED SUNFLOWER
HEMFUL	0	HEMEROCALLIS FULVA	5	UPL	Ad	P-Forb	ORANGE DAY LILY
HERMAX	5	Heracleum maximum	5	UPL	Nt	P-Forb	COW PARSNIP
HESMAT	0	HESPERIS MATRONALIS	5	UPL	Ad	P-Forb	DAME'S ROCKET
HYDVIR	5	Hydrophyllum virginianum	0	[FAC]	Nt	P-Forb	VIRGINIA WATERLEAF
HYSPAT	5	Hystrix patula	5	UPL	Nt	P-Grass	BOTTLEBRUSH GRASS
IMPCAP	3	Impatiens capensis	-3	FACW	Nt	A-Forb	ORANGE JEWELWEED
IRIPSE	0	IRIS PSEUDACORUS	-5	OBL	Ad	P-Forb	TALL YELLOW IRIS
IRIVIS	5	Iris virginica shrevei	-5	OBL	Nt	P-Forb	BLUE FLAG
JUGNIG	5	Juglans nigra	3	FACU	Nt	Tree	BLACK WALNUT
LAPCAN	3	Laportea canadensis	-3	FACW	Nt	P-Forb	WOOD NETTLE
LEEVIR	7	Leersia virginica	-3	FACW	Nt	P-Grass	WHITE GRASS
LEOCAR	0	LEONURUS CARDIACA	5	UPL	Ad	P-Forb	MOTHERWORT
LOBSIP	6	Lobelia siphilitica	-4	FACW+	Nt	P-Forb	GREAT BLUE LOBELIA
LONMAA	0	LONICERA MAACKII	5	UPL	Ad	Shrub	AMUR HONEYSUCKLE
LONBEL	0	LONICERA X BELLA	4	FACU-	Ad	Shrub	SHOWY FLY HONEYSUCKLE
LONXYM	0	LONICERA XYLOSTEUM	5	UPL	Ad	Shrub	EUROPEAN FLY HONEYSUCKLE
MERVIR	5	Mertensia virginica	-3	FACW	Nt	P-Forb	VIRGINIA BLUEBELLS
MORALB	0	MORUS ALBA	0	FAC	Ad	Tree	WHITE MULBERRY
MUHFR0	3	Muhlenbergia frondosa	-3	FACW	Nt	P-Grass	COMMON SATIN GRASS
MYOSCO	0	MYOSOTIS SCORPIOIDES	-5	OBL	Ad	P-Forb	COMMON FORGET-ME-NOT
NASOFF	0	NASTURTIUM OFFICINALE	-5	OBL	Ad	P-Forb	WATER CRESS
OSMLON	3	Osmorhiza longistylis	4	FACU-	Nt	P-Forb	SMOOTH SWEET CICELY
OSTVIR	5	Ostrya virginiana	4	FACU-	Nt	Tree	HOP HORNBEAM
OXAEUR	0	Oxalis europaea	3	FACU	Nt	P-Forb	TALL WOOD SORREL
PARQUI	2	Parthenocissus quinquefolia	1	FAC-	Nt	W-Vine	VIRGINIA CREEPER
PHAARU	0	PHALARIS ARUNDINACEA	-4	FACW+	Ad	P-Grass	REED CANARY GRASS
PHLDIV	5	Phlox divaricata	3	FACU	Nt	P-Forb	WOODLAND PHLOX

PHRLEP	4	Phryma leptostachya	5	UPL	Nt P-Forb	LOPSEED
PHYOPU	8	Physocarpus opulifolius	-2	FACW-	Nt Shrub	NINEBARK
PHYAME	1	Phytolacca americana	1	FAC-	Nt P-Forb	POKEWEED
PILPUM	5	Pilea pumila	-3	FACW	Nt A-Forb	CLEARWEED
PLARUG	0	Plantago rugelii	0	FAC	Nt A-Forb	RED-STALKED PLANTAIN
POAPRA	0	POA PRATENSIS	1	FAC-	Ad P-Grass	KENTUCKY BLUE GRASS
PODPEL	4	Podophyllum peltatum	3	FACU	Nt P-Forb	MAY APPLE
POLCAL	3	Polygonatum canaliculatum	3	FACU	Nt P-Forb	SMOOTH SOLOMON'S SEAL
POLPER	0	POLYGONUM PERSICARIA	1	[FAC-]	Ad A-Forb	LADY'S THUMB
POLGVI	2	Polygonum virginianum	0	FAC	Nt P-Forb	WOODLAND KNOTWEED
POPDEL	2	Populus deltoides	-1	FAC+	Nt Tree	EASTERN COTTONWOOD
PREALB	5	Prenanthes alba	3	FACU	Nt P-Forb	LION'S FOOT
PRUSER	1	Prunus serotina	3	FACU	Nt Tree	WILD BLACK CHERRY
PRUVIR	3	Prunus virginiana	3	[FACU]	Nt Shrub	CHOKO CHERRY
QUEMAC	5	Quercus macrocarpa	1	FAC-	Nt Tree	BUR OAK
QUERUB	7	Quercus rubra	3	FACU	Nt Tree	RED OAK
RANABO	0	Ranunculus abortivus	-2	FACW-	Nt A-Forb	SMALL-FLOWERED BUTTERCUP
RANREC	5	Ranunculus recurvatus	-3	FACW	Nt A-Forb	HOOKED BUTTERCUP
RANSEP	5	Ranunculus septentrionalis	-4	FACW+	Nt P-Forb	SWAMP BUTTERCUP
RHACAT	0	RHAMNUS CATHARTICA	3	FACU	Ad Shrub	COMMON BUCKTHORN
RHAFFRA	0	RHAMNUS FRANGULA	-1	FAC+	Ad Shrub	GLOSSY BUCKTHORN
RIBAME	7	Ribes americanum	-3	FACW	Nt Shrub	WILD BLACK CURRANT
RIBMIS	5	Ribes missouriense	5	UPL	Nt Shrub	WILD GOOSEBERRY
ROSMUL	0	ROSA MULTIFLORA	3	FACU	Ad Shrub	MULTIFLORA ROSE
RUBALL	3	Rubus allegheniensis	2	FACU+	Nt Shrub	COMMON BLACKBERRY
RUBOCC	2	Rubus occidentalis	5	UPL	Nt Shrub	BLACK RASPBERRY
RUDLAC	5	Rudbeckia laciniata	-4	FACW+	Nt P-Forb	WILD GOLDEN GLOW
RUMCRI	0	RUMEX CRISPUS	-1	FAC+	Ad P-Forb	CURLY DOCK
SALFRA	0	SALIX FRAGILIS	-1	FAC+	Ad Tree	CRACK WILLOW
SAMCAN	1	Sambucus canadensis	-2	FACW-	Nt Shrub	ELDERBERRY
SANCAD	6	Sanguinaria canadensis	4	FACU-	Nt P-Forb	BLOODROOT
SANCAA	7	Sanicula canadensis	2	FACU+	Nt B-Forb	CANADIAN BLACK SNAKEROOT
SANGRE	2	Sanicula gregaria	-1	FAC+	Nt P-Forb	CLUSTERED BLACK SNAKEROOT
SCIATR	4	Scirpus atrovirens	-5	OBL	Nt P-Sedge	DARK GREEN RUSH
SCIVAC	5	Scirpus validus creber	-5	OBL	Nt P-Sedge	GREAT BULRUSH
SCRMAR	4	Scrophularia marilandica	4	FACU-	Nt P-Forb	LATE FIGWORT
SILPER	5	Silphium perfoliatum	-2	FACW-	Nt P-Forb	CUP PLANT
SMIRAC	3	Smilacina racemosa	3	FACU	Nt P-Forb	FEATHERY FALSE SOLOMON'S SEAL
SMISTE	5	Smilacina stellata	1	FAC-	Nt P-Forb	STARRY FALSE SOLOMON'S SEAL
SMIECI	5	Smilax ecirrhata	5	UPL	Nt P-Forb	UPRIGHT CARRION FLOWER
SOLDUL	0	SOLANUM DULCAMARA	0	FAC	Ad W-Vine	BITTERSWEET NIGHTSHADE
SOLALT	1	Solidago altissima	3	FACU	Nt P-Forb	TALL GOLDENROD
SOLFLE	7	Solidago flexicaulis	3	FACU	Nt P-Forb	BROAD-LEAVED GOLDENROD
SOLPAT	9	Solidago patula	-5	OBL	Nt P-Forb	SWAMP GOLDENROD
STYDIP	10	Stylophorum diphyllum	5	UPL	Nt P-Forb	CELANDINE POPPY
SYMFOE	8	Symplocarpus foetidus	-5	OBL	Nt P-Forb	SKUNK CABBAGE
TAROFF	0	TARAXACUM OFFICINALE	3	FACU	Ad P-Forb	COMMON DANDELION
THADAH	5	Thalictrum dasycarpum hypoglaucum	-2	FACW-	Nt P-Forb	SMOOTH MEADOW RUE
THADIO	7	Thalictrum dioicum	2	FACU+	Nt P-Forb	EARLY MEADOW RUE
TIACOR	10	Tiarella cordifolia	1	FAC-	Nt P-Forb	FOAM FLOWER
TILAME	5	Tilia americana	3	FACU	Nt Tree	AMERICAN LINDEN
TRIFLE	6	Trillium flexipes	1	FAC-	Nt P-Forb	DECLINED TRILLIUM
TRIREC	5	Trillium recurvatum	4	FACU-	Nt P-Forb	RED TRILLIUM
ULMAME	3	Ulmus americana	-2	FACW-	Nt Tree	AMERICAN ELM
URTDIO	0	URTICA DIOICA	-1	FAC+	Ad P-Forb	STINGING NETTLE
UVUGRA	7	Uvularia grandiflora	5	UPL	Nt P-Forb	BELLWORT
VERURU	5	Verbena urticifolia	5	UPL	Nt P-Forb	HAIRY WHITE VERVAIN
VIBOPU	0	VIBURNUM OPULUS	3	[FACU]	Ad Shrub	EUROPEAN Highbush CRANBERRY
VINMIN	0	VINCA MINOR	5	UPL	Ad Shrub	PERIWINKLE
VIOPUB	5	Viola pubescens	4	FACU-	Nt P-Forb	YELLOW VIOLET
VIOSOR	3	Viola sororia	1	FAC-	Nt P-Forb	COMMON BLUE VIOLET
VITRIP	2	Vitis riparia	-2	FACW-	Nt W-Vine	RIVERBANK GRAPE

TABLE 2

Site: Trout Valley Fen
 Locale: Trout Valley, IL
 Date: 2009(?)
 By: R. Vanni

Note: We were given this plant list from the HOA. The inventory was performed by Down-to-Earth Consultants, and we think the work was done in spring 2009.

Section 1 Summary Tables

FLORISTIC QUALITY DATA		Native	46	78.0%	Adventive	13	22.0%
46	NATIVE SPECIES	Tree	9	15.3%	Tree	1	1.7%
59	Total Species	Shrub	2	3.4%	Shrub	2	3.4%
5.6	NATIVE MEAN C	W-Vine	1	1.7%	W-Vine	0	0.0%
4.3	W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
37.7	NATIVE FQI	P-Forb	26	44.1%	P-Forb	8	13.6%
33.3	W/Adventives	B-Forb	0	0.0%	B-Forb	1	1.7%
0.4	NATIVE MEAN W	A-Forb	1	1.7%	A-Forb	1	1.7%
0.8	W/Adventives	P-Grass	0	0.0%	P-Grass	0	0.0%
AVG:	Faculative	A-Grass	0	0.0%	A-Grass	0	0.0%
		P-Sedge	3	5.1%	P-Sedge	0	0.0%
		A-Sedge	0	0.0%	A-Sedge	0	0.0%
		Cryptogam	4	6.8%			

Section 2 Species Inventory

ACRONYM	C	SCIENTIFIC NAME	W	WETNESS	PHYSIOGNOMY	COMMON NAME
ACENEG	0	Acer negundo	-2	FACW-	Nt Tree	BOX ELDER
ACEPLA	0	ACER PLATANOIDES	5	UPL	Ad Tree	NORWAY MAPLE
ADIPEP	10	Adiantum pedatum	1	FAC-	Cryptogam	MAIDENHAIR FERN
AESGLA	3	Aesculus glabra	3	{FACU}	Nt Tree	OHIO BUCKEYE
ALLPET	0	ALLIARIA PETIOLATA	0	FAC	Ad B-Forb	GARLIC MUSTARD
ALLCER	7	Allium cernuum	1	{FAC-}	Nt P-Forb	NODDING WILD ONION
AMEARB	8	Amelanchier arborea	3	FACU	Nt Tree	SERVICEBERRY
ANETHA	7	Anemonella thalictroides	5	UPL	Nt P-Forb	RUE ANEMONE
ANGATR	7	Angelica atropurpurea	-5	OBL	Nt P-Forb	GREAT ANGELICA
ARITRI	4	Arisaema triphyllum	-2	FACW-	Nt P-Forb	JACK-IN-THE-PULPIT
ASACAN	7	Asarum canadense	5	UPL	Nt P-Forb	WILD GINGER
CALTPA	5	Caltha palustris	-5	OBL	Nt P-Forb	MARSH MARIGOLD
CXBLAN	1	Carex blanda	0	FAC	Nt P-Sedge	COMMON WOOD SEDGE
CXSTRI	5	Carex stricta	-5	OBL	Nt P-Sedge	COMMON TUSsock SEDGE
CORALT	9	Cornus alternifolia	1	{FAC-}	Nt Tree	PAGODA DOGWOOD
DIABAR	0	DIANTHUS BARBATUS	5	UPL	Ad P-Forb	SWEET WILLIAM
DODMEA	6	Dodecatheon meadia	3	FACU	Nt P-Forb	SHOOTING STAR
EQUARV	0	Equisetum arvense	0	FAC	Cryptogam	HORSETAIL
ERYALB	5	Erythronium albidum	5	UPL	Nt P-Forb	WHITE TROUT LILY
ERYAME	8	Erythronium americanum	5	UPL	Nt P-Forb	YELLOW TROUT LILY
GALAPA	1	Galium aparine	3	FACU	Nt A-Forb	ANNUAL BEDSTRAW
GERMAC	4	Geranium maculatum	5	{UPL}	Nt P-Forb	WILD GERANIUM
GLEHED	0	GLECHOMA HEDERACEA	3	FACU	Ad P-Forb	CREEPING CHARLIE
HEMFUL	0	HEMEROCALLIS FULVA	5	UPL	Ad P-Forb	ORANGE DAY LILY
IRIVIS	5	Iris virginica shrevei	-5	OBL	Nt P-Forb	BLUE FLAG
JUNBAL	6	Juncus balticus littoralis	-3	{FACW}	Nt P-Forb	LAKE SHORE RUSH
KOCSKO	0	KOCHIA SCOPARIA	4	FACU-	Ad A-Forb	BURNING BUSH
LARLAR	10	Larix laricina	-5	{OBL}	Nt Tree	TAMARACK
LONTAT	0	LONICERA TATARICA	5	{UPL}	Ad Shrub	TARTARIAN HONEYSUCKLE
MATSTR	10	Matteuccia struthiopteris	-3	FACW	Cryptogam	OSTRICH FERN
MERVIR	5	Mertensia virginica	-3	FACW	Nt P-Forb	VIRGINIA BLUEBELLS
MYOSCO	0	MYOSOTIS SCORPIOIDES	-5	OBL	Ad P-Forb	COMMON FORGET-ME-NOT
NARPSE	0	NARCISSUS PSEUDONARCISSUS	5	UPL	Ad P-Forb	DAFFODIL
NASOFF	0	NASTURTIUM OFFICINALE	-5	OBL	Ad P-Forb	WATER CRESS
OSMCIN	7	Osmunda cinnamomea	-3	FACW	Cryptogam	CINNAMON FERN
PODPEL	4	Podophyllum peltatum	3	FACU	Nt P-Forb	MAY APPLE

POLREP	5	<i>Polemonium reptans</i>	0	FAC	Nt	P-Forb	JACOB'S LADDER
POPDEL	2	<i>Populus deltoides</i>	-1	FAC+	Nt	Tree	EASTERN COTTONWOOD
PRUVIR	3	<i>Prunus virginiana</i>	3	[FACU]	Nt	Shrub	CHOKE CHERRY
QUEMAC	5	<i>Quercus macrocarpa</i>	1	FAC-	Nt	Tree	BUR OAK
QUERUB	7	<i>Quercus rubra</i>	3	FACU	Nt	Tree	RED OAK
RANFAS	6	<i>Ranunculus fascicularis</i>	3	FACU	Nt	P-Forb	EARLY BUTTERCUP
RANSEP	5	<i>Ranunculus septentrionalis</i>	-4	FACW+	Nt	P-Forb	SWAMP BUTTERCUP
RHACAT	0	<i>RHAMNUS CATHARTICA</i>	3	FACU	Ad	Shrub	COMMON BUCKTHORN
RIBMIS	5	<i>Ribes missouriense</i>	5	UPL	Nt	Shrub	WILD GOOSEBERRY
SALNIG	4	<i>Salix nigra</i>	-5	OBL	Nt	Tree	BLACK WILLOW
SANCAD	6	<i>Sanguinaria canadensis</i>	4	FACU-	Nt	P-Forb	BLOODROOT
SCIACU	6	<i>Scirpus acutus</i>	-5	OBL	Nt	P-Sedge	HARD-STEMMED BULRUSH
SMIRAC	3	<i>Smilacina racemosa</i>	3	FACU	Nt	P-Forb	FEATHERY FALSE SOLOMON'S SEAL
SMISTE	5	<i>Smilacina stellata</i>	1	FAC-	Nt	P-Forb	STARRY FALSE SOLOMON'S SEAL
STYDIP	10	<i>Stylophorum diphyllum</i>	5	UPL	Nt	P-Forb	CELANDINE POPPY
SYMFOE	8	<i>Symplocarpus foetidus</i>	-5	OBL	Nt	P-Forb	SKUNK CABBAGE
TAROFF	0	<i>TARAXACUM OFFICINALE</i>	3	FACU	Ad	P-Forb	COMMON DANDELION
TRICEM	10	<i>Trillium cernuum macranthum</i>	0	FAC	Nt	P-Forb	NODDING TRILLIUM
TRIERE	10	<i>Trillium erectum</i>	5	UPL	Nt	P-Forb	ILL-SCENTED TRILLIUM
URTDIO	0	<i>URTICA DIOICA</i>	-1	FAC+	Ad	P-Forb	STINGING NETTLE
UVUGRA	7	<i>Uvularia grandiflora</i>	5	UPL	Nt	P-Forb	BELLWORT
VIOSOR	3	<i>Viola sororia</i>	1	FAC-	Nt	P-Forb	COMMON BLUE VIOLET
VITRIP	2	<i>Vitis riparia</i>	-2	FACW-	Nt	W-Vine	RIVERBANK GRAPE

TABLE 3

Site: Trout Valley Fen
 Locale: Trout Valley, IL
 Date: (?)
 By: (?)

Note: We were given this plant list from Ted Gray of Living Waters Consultants. We are not sure who compiled this plant list and when it was done.

Section 1 Summary Tables

FLORISTIC QUALITY DATA		Native	93	88.6%	Adventive	12	11.4%
93	NATIVE SPECIES	Tree	6	5.7%	Tree	0	0.0%
105	Total Species	Shrub	6	5.7%	Shrub	4	3.8%
5.2	NATIVE MEAN C	W-Vine	2	1.9%	W-Vine	1	1.0%
4.6	W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
49.9	NATIVE FQI	P-Forb	62	59.0%	P-Forb	5	4.8%
46.9	W/Adventives	B-Forb	2	1.9%	B-Forb	2	1.9%
0.6	NATIVE MEAN W	A-Forb	3	2.9%	A-Forb	0	0.0%
0.7	W/Adventives	P-Grass	6	5.7%	P-Grass	0	0.0%
AVG: Faculative (-)		A-Grass	0	0.0%	A-Grass	0	0.0%
		P-Sedge	4	3.8%	P-Sedge	0	0.0%
		A-Sedge	0	0.0%	A-Sedge	0	0.0%
		Cryptogam	2	1.9%			

Section 2 Species Inventory

ACRONYM	C	SCIENTIFIC NAME	W	WETNESS	PHYSIOGNOMY	COMMON NAME
ACENIG	5	Acer nigrum	5	UPL	Nt Tree	BLACK MAPLE
ACHMIL	0	ACHILLEA MILLEFOLIUM	3	FACU	Ad P-Forb	YARROW
ACTRUB	10	Actaea rubra	3	{FACU}	Nt P-Forb	RED BANEBERRY
ADIPED	10	Adiantum pedatum	1	FAC-	Cryptogam	MAIDENHAIR FERN
AGRPUB	5	Agrimonia pubescens	5	UPL	Nt P-Forb	SOFT AGRIMONY
ALLPET	0	ALLIARIA PETIOLATA	0	FAC	Ad B-Forb	GARLIC MUSTARD
ALLSTE	10	Allium stellatum	5	UPL	Nt P-Forb	PRAIRIE ONION
AMBTRI	0	Ambrosia trifida	-1	FAC+	Nt A-Forb	GIANT RAGWEED
AMPBRB	4	Amphicarpaea bracteata	0	FAC	Nt P-Forb	UPLAND HOG PEANUT
ANEQUI	7	Anemone quinquefolia	5	{UPL}	Nt P-Forb	WOOD ANEMONE
ANETHA	7	Anemonella thalictroides	5	UPL	Nt P-Forb	RUE ANEMONE
ANGATR	7	Angelica atropurpurea	-5	OBL	Nt P-Forb	GREAT ANGELICA
APIAME	7	Apios americana	-3	FACW	Nt P-Forb	GROUND NUT
AQUCAN	6	Aquilegia canadensis	1	FAC-	Nt P-Forb	WILD COLUMBINE
ARARAC	10	Aralia racemosa	5	UPL	Nt P-Forb	SPIKENARD
ARITRI	4	Arisaema triphyllum	-2	FACW-	Nt P-Forb	JACK-IN-THE-PULPIT
ASACAN	7	Asarum canadense	5	UPL	Nt P-Forb	WILD GINGER
ASCSYR	0	Asclepias syriaca	5	UPL	Nt P-Forb	COMMON MILKWEED
ASTUMB	9	Aster umbellatus	-3	FACW	Nt P-Forb	FLAT-TOP ASTER
BROPUB	5	Bromus pubescens	2	FACU+	Nt P-Grass	WOODLAND BROME
CALTPA	5	Caltha palustris	-5	OBL	Nt P-Forb	MARSH MARIGOLD
CXSTIP	3	Carex stipata	-5	OBL	Nt P-Sedge	COMMON FOX SEDGE
CXSTRI	5	Carex stricta	-5	OBL	Nt P-Sedge	COMMON TUSSOCK SEDGE
CXVULP	2	Carex vulpinoidea	-5	OBL	Nt P-Sedge	BROWN FOX SEDGE
CAROVY	5	Carya ovata	3	FACU	Nt Tree	SHAGBARK HICKORY
CAUTHA	8	Caulophyllum thalictroides	5	UPL	Nt P-Forb	BLUE COHOSH
CHEGLB	8	Chelone glabra	-5	OBL	Nt P-Forb	TURTLEHEAD
CINARU	5	Cinna arundinacea	-3	FACW	Nt P-Grass	COMMON WOOD REED
CIRLUC	1	Circaea lutetiana canadensis	3	FACU	Nt P-Forb	ENCHANTER'S NIGHTSHADE
CIRARV	0	CIRSIIUM ARVENSE	5	UPL	Ad P-Forb	FIELD THISTLE
CIRVUL	0	CIRSIIUM VULGARE	4	FACU-	Ad B-Forb	BULL THISTLE
CORALT	9	Cornus alternifolia	1	{FAC-}	Nt Tree	PAGODA DOGWOOD
COROBL	6	Cornus obliqua	-4	FACW+	Nt Shrub	BLUE-FRUITED DOGWOOD
CORRAC	1	Cornus racemosa	-2	FACW-	Nt Shrub	GRAY DOGWOOD
CORRUG	10	Cornus rugosa	5	UPL	Nt Shrub	ROUND-LEAVED DOGWOOD
CYPCPA	10	Cypripedium calceolus parviflorum	-5	{OBL}	Nt P-Forb	SMALL YELLOW LADY'S SLIPPER

CYSBUL	8	Cystopteris bulbifera	-2	FACW-	Cryptogam	BULBLET FERN
DENLAC	5	Dentaria laciniata	3	FACU	Nt P-Forb	TOOTHWORT
DICCUC	6	Dicentra cucullaria	5	UPL	Nt P-Forb	DUTCHMAN'S BREECHES
DODMEA	6	Dodecatheon meadia	3	FACU	Nt P-Forb	SHOOTING STAR
ELYRIP	5	Elymus riparius	1	[FAC-]	Nt P-Grass	RIVERBANK WILD RYE
EPICOL	3	Epilobium coloratum	-5	OBL	Nt P-Forb	CINNAMON WILLOW HERB
ERIAN5	0	Erigeron annuus	1	FAC-	Nt B-Forb	ANNUAL FLEABANE
ERIPHI	4	Erigeron philadelphicus	-3	FACW	Nt P-Forb	MARSH FLEABANE
ERYALB	5	Erythronium albidum	5	UPL	Nt P-Forb	WHITE TROUT LILY
ERYAME	8	Erythronium americanum	5	UPL	Nt P-Forb	YELLOW TROUT LILY
EUPPER	4	Eupatorium perfoliatum	-4	FACW+	Nt P-Forb	COMMON BONESET
EUPPUR	7	Eupatorium purpureum	5	UPL	Nt P-Forb	PURPLE JOE PYE WEED
EUPRUG	4	Eupatorium rugosum	5	UPL	Nt P-Forb	WHITE SNAKEROOT
GALAPA	1	Galium aparine	3	FACU	Nt A-Forb	ANNUAL BEDSTRAW
GERMAC	4	Geranium maculatum	5	[UPL]	Nt P-Forb	WILD GERANIUM
GEUCAN	1	Geum canadense	0	FAC	Nt P-Forb	WOOD AVENS
GLEHED	0	GLECHOMA HEDERACEA	3	FACU	Ad P-Forb	CREEPING CHARLIE
GLYSTR	4	Glyceria striata	-3	[FACW]	Nt P-Grass	FOWL MANNA GRASS
HACVIR	0	Hackelia virginiana	1	FAC-	Nt B-Forb	STICKSEED
HEPACU	6	Hepatica acutiloba	5	UPL	Nt P-Forb	SHARP-LOBED HEPATICA
HYDVIR	5	Hydrophyllum virginianum	0	[FAC]	Nt P-Forb	VIRGINIA WATERLEAF
IMPCAP	3	Impatiens capensis	-3	FACW	Nt A-Forb	ORANGE JEWELWEED
IRIPSE	0	IRIS PSEUDACORUS	-5	OBL	Ad P-Forb	TALL YELLOW IRIS
LAPCAN	3	Laportea canadensis	-3	FACW	Nt P-Forb	WOOD NETTLE
LEEVIK	7	Leersia virginica	-3	FACW	Nt P-Grass	WHITE GRASS
LILMIC	6	Lilium michiganense	-1	FAC+	Nt P-Forb	TURK'S CAP LILY
LOBCAR	7	Lobelia cardinalis	-5	OBL	Nt P-Forb	CARDINAL FLOWER
LOBSIP	6	Lobelia siphilitica	-4	FACW+	Nt P-Forb	GREAT BLUE LOBELIA
MUHSYL	10	Muhlenbergia sylvatica	-3	FACW	Nt P-Grass	WOODLAND SATIN GRASS
NASOFF	0	NASTURTIUM OFFICINALE	-5	OBL	Ad P-Forb	WATER CRESS
PARQUI	2	Parthenocissus quinquefolia	1	FAC-	Nt W-Vine	VIRGINIA CREEPER
PHLDIV	5	Phlox divaricata	3	FACU	Nt P-Forb	WOODLAND PHLOX
PHRLEP	4	Phryma leptostachya	5	UPL	Nt P-Forb	LOPSEED
PHYAME	1	Phytolacca americana	1	FAC-	Nt P-Forb	POKEWEED
PODPEL	4	Podophyllum peltatum	3	FACU	Nt P-Forb	MAY APPLE
POLREP	5	Polemonium reptans	0	FAC	Nt P-Forb	JACOB'S LADDER
POLCAL	3	Polygonatum canaliculatum	3	FACU	Nt P-Forb	SMOOTH SOLOMON'S SEAL
PREALB	5	Prenanthes alba	3	FACU	Nt P-Forb	LION'S FOOT
PRUSER	1	Prunus serotina	3	FACU	Nt Tree	WILD BLACK CHERRY
QUEMAC	5	Quercus macrocarpa	1	FAC-	Nt Tree	BUR OAK
RANFAS	6	Ranunculus fascicularis	3	FACU	Nt P-Forb	EARLY BUTTERCUP
RANSEP	5	Ranunculus septentrionalis	-4	FACW+	Nt P-Forb	SWAMP BUTTERCUP
RHACAT	0	RHAMNUS CATHARTICA	3	FACU	Ad Shrub	COMMON BUCKTHORN
RHAfra	0	RHAMNUS FRANGULA	-1	FAC+	Ad Shrub	GLOSSY BUCKTHORN
ROSMUL	0	ROSA MULTIFLORA	3	FACU	Ad Shrub	MULTIFLORA ROSE
RUBALL	3	Rubus allegheniensis	2	FACU+	Nt Shrub	COMMON BLACKBERRY
RUBOCC	2	Rubus occidentalis	5	UPL	Nt Shrub	BLACK RASPBERRY
RUDLAC	5	Rudbeckia laciniata	-4	FACW+	Nt P-Forb	WILD GOLDEN GLOW
SAMCAN	1	Sambucus canadensis	-2	FACW-	Nt Shrub	ELDERBERRY
SANCAD	6	Sanguinaria canadensis	4	FACU-	Nt P-Forb	BLOODROOT
SCIATR	4	Scirpus atrovirens	-5	OBL	Nt P-Sedge	DARK GREEN RUSH
SILPER	5	Silphium perfoliatum	-2	FACW-	Nt P-Forb	CUP PLANT
SMIRAC	3	Smilacina racemosa	3	FACU	Nt P-Forb	FEATHERY FALSE SOLOMON'S SEAL
SMISTE	5	Smilacina stellata	1	FAC-	Nt P-Forb	STARRY FALSE SOLOMON'S SEAL
SOLDUL	0	SOLANUM DULCAMARA	0	FAC	Ad W-Vine	BITTERSWEET NIGHTSHADE
SOLFLE	7	Solidago flexicaulis	3	FACU	Nt P-Forb	BROAD-LEAVED GOLDENROD
SOLPAT	9	Solidago patula	-5	OBL	Nt P-Forb	SWAMP GOLDENROD
STYDIP	10	Stylophorum diphyllum	5	UPL	Nt P-Forb	CELANDINE POPPY
SYMFOE	8	Symplocarpus foetidus	-5	OBL	Nt P-Forb	SKUNK CABBAGE
THADAH	5	Thalictrum dasycarpum hypoglaucum	-2	FACW-	Nt P-Forb	SMOOTH MEADOW RUE
TIACOR	10	Tiarella cordifolia	1	FAC-	Nt P-Forb	FOAM FLOWER
TILAME	5	Tilia americana	3	FACU	Nt Tree	AMERICAN LINDEN
TRIFLE	6	Trillium flexipes	1	FAC-	Nt P-Forb	DECLINED TRILLIUM
UVUGRA	7	Uvularia grandiflora	5	UPL	Nt P-Forb	BELLWORT
VERURU	5	Verbena urticifolia	5	UPL	Nt P-Forb	HAIRY WHITE VERVAIN
VIBOPU	0	VIBURNUM OPULUS	3	[FACU]	Ad Shrub	EUROPEAN Highbush CRANBERRY
VIO PUB	5	Viola pubescens	4	FACU-	Nt P-Forb	YELLOW VIOLET
VIOSOR	3	Viola sororia	1	FAC-	Nt P-Forb	COMMON BLUE VIOLET
VITRIP	2	Vitis riparia	-2	FACW-	Nt W-Vine	RIVERBANK GRAPE

TABLE 4

Site: Trout Valley Fen
 Locale: Trout Valley, IL
 Date: July 2009
 By: Jack Shouba & Ken Johnson

Note: These 36 species represent native taxa not observed during our 3 site visits in 2008 and 2009, yet recorded from the Trout Valley Fen area in other inventories. Those species with C values greater than 5 represent conservative species (especially those with values of 9 and 10).

Species Inventory

ACRONYM	C	SCIENTIFIC NAME	W	WETNESS	PHYSIOGNOMY	COMMON NAME
ACENIG	5	Acer nigrum	5	UPL	Nt Tree	BLACK MAPLE
AGRPUB	5	Agrimonia pubescens	5	UPL	Nt P-Forb	SOFT AGRIMONY
ALLCER	7	Allium cernuum	1	[FAC-]	Nt P-Forb	NODDING WILD ONION
ALLSTE	10	Allium stellatum	5	UPL	Nt P-Forb	PRAIRIE ONION
AMEARB	8	Amelanchier arborea	3	FACU	Nt Tree	SERVICEBERRY
ANEQUI	7	Anemone quinquefolia	5	[UPL]	Nt P-Forb	WOOD ANEMONE
APIAME	7	Apios americana	-3	FACW	Nt P-Forb	GROUND NUT
ARARAC	10	Aralia racemosa	5	UPL	Nt P-Forb	SPIKENARD
ASCSYR	0	Asclepias syriaca	5	UPL	Nt P-Forb	COMMON MILKWEED
BROPUB	5	Bromus pubescens	2	FACU+	Nt P-Grass	WOODLAND BROME
CXSTIP	3	Carex stipata	-5	OBL	Nt P-Sedge	COMMON FOX SEDGE
CHEGLB	8	Chelone glabra	-5	OBL	Nt P-Forb	TURTLEHEAD
CINARU	5	Cinna arundinacea	-3	FACW	Nt P-Grass	COMMON WOOD REED
CORRAC	1	Cornus racemosa	-2	FACW-	Nt Shrub	GRAY DOGWOOD
CORRUG	10	Cornus rugosa	5	UPL	Nt Shrub	ROUND-LEAVED DOGWOOD
CYPCPA	10	Cypripedium calceolus parviflorum	-5	[OBL]	Nt P-Forb	SMALL YELLOW LADY'S SLIPPER
CYSBUL	8	Cystopteris bulbifera	-2	FACW-	Cryptogam	BULBLET FERN
DODMEA	6	Dodecatheon meadia	3	FACU	Nt P-Forb	SHOOTING STAR
ELYRIP	5	Elymus riparius	1	[FAC-]	Nt P-Grass	RIVERBANK WILD RYE
ERIANE	0	Erigeron annuus	1	FAC-	Nt B-Forb	ANNUAL FLEABANE
ERYAME	8	Erythronium americanum	5	UPL	Nt P-Forb	YELLOW TROUT LILY
EUPPUR	7	Eupatorium purpureum	5	UPL	Nt P-Forb	PURPLE JOE PYE WEED
HEPACU	6	Hepatica acutiloba	5	UPL	Nt P-Forb	SHARP-LOBED HEPATICA
JUNBAL	6	Juncus balticus littoralis	-3	[FACW]	Nt P-Forb	LAKE SHORE RUSH
LARLAR	10	Larix laricina	-5	[OBL]	Nt Tree	TAMARACK
LILMIC	6	Lilium michiganense	-1	FAC+	Nt P-Forb	TURK'S CAP LILY
LOBCAR	7	Lobelia cardinalis	-5	OBL	Nt P-Forb	CARDINAL FLOWER
MATSTR	10	Matteuccia struthiopteris	-3	FACW	Cryptogam	OSTRICH FERN
MUHSYL	10	Muhlenbergia sylvatica	-3	FACW	Nt P-Grass	WOODLAND SATIN GRASS
OSMCIN	7	Osmunda cinnamomea	-3	FACW	Cryptogam	CINNAMON FERN
POLREP	5	Polemonium reptans	0	FAC	Nt P-Forb	JACOB'S LADDER
RANFAS	6	Ranunculus fascicularis	3	FACU	Nt P-Forb	EARLY BUTTERCUP
SALNIG	4	Salix nigra	-5	OBL	Nt Tree	BLACK WILLOW
SCIACU	6	Scirpus acutus	-5	OBL	Nt P-Sedge	HARD-STEMMED BULRUSH
TRICEM	10	Trillium cernuum macranthum	0	FAC	Nt P-Forb	NODDING TRILLIUM
TRIERE	10	Trillium erectum	5	UPL	Nt P-Forb	ILL-SCENTED TRILLIUM





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