

Site:	Scales Bend Road#14								
Locale:	Scales E North Liberty Johns Co								
Date:	26-May	2002	3 hours						
By:	Taliga								
File:	c:\FQA\studies\johnson co rd inv\Penn\john co rd scales bend rd #14.inv								
Notes:	Meander survey beginning 1/2 mile north off of 965.								
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FLORISTIC QUALITY DATA			Native	86	85.10%	Adventive	15	14.90%	
86	NATIVE SPECIES		Tree	12	11.90%	Tree	0	0.00%	
101	Total Species		Shrub	10	9.90%	Shrub	2	2.00%	
3.6	NATIVE MEAN C		W-Vine	6	5.90%	W-Vine	0	0.00%	
3	W/Adventives		H-Vine	3	3.00%	H-Vine	0	0.00%	
33.1	NATIVE FQI		P-Forb	34	33.70%	P-Forb	7	6.90%	
30.5	W/Adventives		B-Forb	1	1.00%	B-Forb	3	3.00%	
1.5	NATIVE MEAN W		A-Forb	8	7.90%	A-Forb	0	0.00%	
1.8	W/Adventives		P-Grass	1	1.00%	P-Grass	3	3.00%	
AVG:	Fac. Upland (+)		A-Grass	0	0.00%	A-Grass	0	0.00%	
			P-Sedge	6	5.90%	P-Sedge	0	0.00%	
			A-Sedge	0	0.00%	A-Sedge	0	0.00%	
			Fern	5	5.00%				
ACRONYM	C	SCIENTIFIC NAME	W	WETNESS	PHYSIOGNOMY	COMMON NAME			
ACARHO	6	Acalypha rhomboidea		3 FACU	Nt A-Forb	Three-seeded mercury			
ACENEG	0	Acer negundo		-2 FACW-	Nt Tree	Box elder			
ACESAI	1	Acer saccharinum		-3 FACW	Nt Tree	Silver maple			
ACHMIL	0	Achillea millefolium ssp. lanulosa		3 FACU	Nt P-Forb	Western yarrow			
ADIPED	7	Adiantum pedatum		1 FAC-	Nt Fern	Northern maidenhair fern			
AGRGIG	0	AGROSTIS GIGANTEA		-3 FACW	Ad P-Grass	Redtop			
AMBART	0	Ambrosia artemisiifolia		3 FACU	Nt A-Forb	Common ragweed			
AMBTRI	0	Ambrosia trifida		-1 FAC+	Nt A-Forb	Giant ragweed			
AMPBRB	4	Amphicarpaea bracteata		0 FAC	Nt H-Vine	Hog peanut			
ANECAN	2	Anemone canadensis		-3 FACW	Nt P-Forb	Canada anemone			
ANECYL	7	Anemone cylindrica		5 UPL	Nt P-Forb	Windflower			
ARITRI	4	Arisaema triphyllum		-2 FACW-	Nt P-Forb	Jack-in-the-pulpit			
ASTDRU	4	Aster drummondii		3 FACU	Nt P-Forb	Drummond's aster			

ASTONT	3	Aster ontarionis	0 FAC	Nt P-Forb	Ontario aster		
ATHFIA	7	Athyrium filix-femina var. angustum	0 FAC	Nt Fern	Northern lady fern		
BARVUL	0	BARBAREA VULGARIS	0 FAC	Ad B-Forb	Yellow rocket		
BOTVIR	6	Botrychium virginianum	3 FACU	Nt Fern	Rattlesnake fern		
BROINE	0	BROMUS INERMIS	5 UPL	Ad P-Grass	Smooth brome		
CXBLAN	2	Carex blanda	0 FAC	Nt P-Sedge	Common wood sedge		
CXGRIS	4	Carex grisea	5 UPL	Nt P-Sedge	Gray sedge		
CXLEAV	3	Carex leavenworthii	5 UPL	Nt P-Sedge	Dwarf bracted sedge		
CXMOLE	2	Carex molesta	0 FAC	Nt P-Sedge	Field oval sedge		
CXPENP	6	Carex pensylvanica	-4 FACW+	Nt P-Sedge	Pennsylvania oak sedge		
CXROSE	7	Carex rosea	5 UPL	Nt P-Sedge	Curly-styled wood sedge		
CARCOR	5	Carya cordiformis	0 FAC	Nt Tree	Bitternut hickory		
CAROVT	5	Carya ovata	3 FACU	Nt Tree	Shagbark hickory		
CELOCC	2	Celtis occidentalis	1 FAC-	Nt Tree	Hackberry		
CONCAN	0	Conyza canadensis	1 FAC-	Nt A-Forb	Horseweed		
CORALT	8	Cornus alternifolia	5 UPL	Nt Tree	Alternate-leaved dogwood		
CORDRU	4	Cornus drummondii	0 FAC	Nt Shrub	Rough-leaved dogwood		
CORAME	3	Corylus americana	0 FAC	Nt Shrub	American hazelnut		
CRYCAN	4	Cryptotaenia canadensis	0 FAC	Nt P-Forb	Honewort		
CYSPRO	6	Cystopteris protrusa	4 FACU-	Nt Fern	Creeping fragile fern		
DACGLO	0	DACTYLIS GLOMERATA	3 FACU	Ad P-Grass	Orchard grass		
DIOVIL	5	Dioscorea villosa	1 FAC-	Nt H-Vine	Wild yam		
ERIANN	0	Erigeron annuus	1 FAC-	Nt B-Forb	Annual fleabane		
ERISTR	2	Erigeron strigosus	1 FAC-	Nt P-Forb	Daisy fleabane		
EUPPER	6	Eupatorium perfoliatum	-4 FACW+	Nt P-Forb	Common boneset		
EUPRUG	2	Eupatorium rugosum	3 FACU	Nt P-Forb	White snakeroot		
FESOBT	7	Festuca obtusa	2 FACU+	Nt P-Grass	Nodding fescue		
FRAPEL	1	Fraxinus pennsylvanica var. lanceolata	-3 FACW	Nt Tree	Green ash		
GALAPA	1	Galium aparine	3 FACU	Nt A-Forb	Cleavers		
GALCON	7	Galium concinnum	3 FACU	Nt P-Forb	Shining bedstraw		
GALTRO	7	Galium triflorum	2 FACU+	Nt P-Forb	Sweet-scented bedstraw		
GERMAC	6	Geranium maculatum	3 FACU	Nt P-Forb	Wild geranium		
GLEHED	0	GLECHOMA HEDERACEA	4 FACU-	Ad P-Forb	Creeping Charlie		
GLETRI	0	Gleditsia triacanthos	0 FAC	Nt Tree	Honey locust		
HACVIR	0	Hackelia virginiana	1 FAC-	Nt P-Forb	Stickseed		
HELSTR	5	Helianthus strumosus	5 UPL	Nt P-Forb	Pale-leaved sunflower		
HEMFUL	0	HEMEROCALLIS FULVA	5 UPL	Ad P-Forb	Day lily		
HESMAT	0	HESPERIS MATRONALIS	5 UPL	Ad P-Forb	Dame's rocket		
HYDVIR	3	Hydrophyllum virginianum	-2 FACW-	Nt P-Forb	Virginia waterleaf		
IMPPAL	5	Impatiens pallida	-3 FACW	Nt A-Forb	Pale touch-me-not		
JUNVIR	1	Juniperus virginiana	3 FACU	Nt Tree	Red cedar		
LONPRO	7	Lonicera prolifera	5 UPL	Nt W-Vine	Wild honeysuckle		

LONBEL	0	LONICERA X BELLA	5 UPL	Ad Shrub	Showy fly honeysuckle		
MEDSAT	0	MEDICAGO SATIVA	5 UPL	Ad P-Forb	Alfalfa		
MELOFC	0	MELILOTUS OFFICINALIS	3 FACU	Ad B-Forb	Yellow sweet clover		
MONFIS	2	Monarda fistulosa	3 FACU	Nt P-Forb	Wild bergamot		
OSMLON	5	Osmorhiza longistylis	4 FACU-	Nt P-Forb	Smooth sweet cicely		
OSMCLN	7	Osmunda claytoniana	-1 FAC+	Nt Fern	Interrupted fern		
OXASTR	0	Oxalis stricta	3 FACU	Nt P-Forb	Tall wood sorrel		
PARQUI	2	Parthenocissus quinquefolia	1 FAC-	Nt W-Vine	Virginia creeper		
PARVIT	1	Parthenocissus vitacea	3 FACU	Nt W-Vine	Thicket creeper		
PASSAT	0	PASTINACA SATIVA	5 UPL	Ad B-Forb	Wild parsnip		
PHLDIV	5	Phlox divaricata	3 FACU	Nt P-Forb	Woodland phlox		
PLARUG	0	Plantago rugelii	0 FAC	Nt A-Forb	Red-stalked plantain		
PODPEL	4	Podophyllum peltatum	3 FACU	Nt P-Forb	May apple		
POLREP	6	Polemonium reptans	0 FAC	Nt P-Forb	Jacob's ladder		
POLBIF	4	Polygonatum biflorum	3 FACU	Nt P-Forb	Solomon's seal		
POPDEL	1	Populus deltoides	-1 FAC+	Nt Tree	Cottonwood		
PREALB	7	Prenanthes alba	3 FACU	Nt P-Forb	White lettuce		
PRUVIR	2	Prunus virginiana	1 FAC-	Nt Shrub	Choke cherry		
QUEALB	6	Quercus alba	3 FACU	Nt Tree	White oak		
RANABO	0	Ranunculus abortivus	-4 FACW+	Nt A-Forb	Small-flowered crowfoot		
RHUGLA	0	Rhus glabra	5 UPL	Nt Shrub	Smooth sumac		
RHUTYP	3	Rhus typhina	5 UPL	Nt Shrub	Staghorn sumac		
RIBMIS	3	Ribes missouriense	5 UPL	Nt Shrub	Wild gooseberry		
ROSBLA	4	Rosa blanda	3 FACU	Nt Shrub	Meadow rose		
ROSCAR	4	Rosa carolina	4 FACU-	Nt Shrub	Pasture rose		
ROSMUL	0	ROSA MULTIFLORA	3 FACU	Ad Shrub	Multiflora rose		
RUBALL	2	Rubus allegheniensis	2 FACU+	Nt Shrub	Common blackberry		
RUBOCC	1	Rubus occidentalis	5 UPL	Nt Shrub	Black raspberry		
RUMCRI	0	RUMEX CRISPUS	-1 FAC+	Ad P-Forb	Curly dock		
SANCAN	7	Sanguinaria canadensis	4 FACU-	Nt P-Forb	Bloodroot		
SANGRE	5	Sanicula gregaria	-1 FAC+	Nt P-Forb	Common snakeroot		
SENPLA	3	Senecio plattensis	4 FACU-	Nt P-Forb	Prairie ragwort		
SMIRAC	4	Smilacina racemosa	3 FACU	Nt P-Forb	False Solomon's seal		
SMIHIS	4	Smilax hispida	0 FAC	Nt W-Vine	Greenbrier		
SMILAS	5	Smilax lasioneura	0 FAC	Nt H-Vine	Common carrion flower		
SOLCAN	0	Solidago canadensis	3 FACU	Nt P-Forb	Tall goldenrod		
SOLGIG	3	Solidago gigantea	-3 FACW	Nt P-Forb	Smooth goldenrod		
TAROFF	0	TARAXACUM OFFICINALE	3 FACU	Ad P-Forb	Common dandelion		
THATRF	7	Thaspium trifoliatum var. flavum	5 UPL	Nt P-Forb	Yellow meadow parsnip		
TILAME	5	Tilia americana	3 FACU	Nt Tree	Basswood		
TOXRAD	0	Toxicodendron radicans	-1 FAC+	Nt W-Vine	Poison ivy		
TRIPRA	0	TRIFOLIUM PRATENSE	2 FACU+	Ad P-Forb	Red clover		

UVUGRA	7	Uvularia grandiflora	5 UPL	Nt P-Forb	Bellwort			
VERVIM	5	Veronicastrum virginicum	0 FAC	Nt P-Forb	Culver's root			
VIOPUP	5	Viola pubescens	4 FACU-	Nt P-Forb	Downy yellow violet			
VITRIP	1	Vitis riparia	-2 FACW-	Nt W-Vine	Riverbank grape			

SCIENTIFIC NAME				
<i>Acalypha rhomboidea</i>				
<i>Acer negundo</i>				
<i>Acer saccharinum</i>				
<i>Achillea millefolium</i> ssp. <i>lanulosa</i>				
<i>Adiantum pedatum</i>				
AGROSTIS GIGANTEA				
<i>Ambrosia artemisiifolia</i>				
<i>Ambrosia trifida</i>				
<i>Amphicarpaea bracteata</i>				
<i>Anemone canadensis</i>				
<i>Anemone cylindrica</i>				
<i>Arisaema triphyllum</i>				
<i>Aster drummondii</i>				
<i>Aster ontarionis</i>				
<i>Athyrium filix-femina</i> var. <i>angustum</i>				
BARBAREA VULGARIS				
<i>Botrychium virginianum</i>				
BROMUS INERMIS				
<i>Carex blanda</i>				
<i>Carex grisea</i>				
<i>Carex leavenworthii</i>				
<i>Carex molesta</i>				
<i>Carex pensylvanica</i>				
<i>Carex rosea</i>				
<i>Carya cordiformis</i>				
<i>Carya ovata</i>				
<i>Celtis occidentalis</i>				
<i>Conyza canadensis</i>				
<i>Cornus alternifolia</i>				
<i>Cornus drummondii</i>				
<i>Corylus americana</i>				
<i>Cryptotaenia canadensis</i>				
<i>Cystopteris protrusa</i>				
DACTYLIS GLOMERATA				
<i>Dioscorea villosa</i>				

Erigeron annuus				
Erigeron strigosus				
Eupatorium perfoliatum				
Eupatorium rugosum				
Festuca obtusa				
Fraxinus pennsylvanica var. lanceolata				
Galium aparine				
Galium concinnum				
Galium triflorum				
Geranium maculatum				
GLECHOMA HEDERACEA				
Gleditsia triacanthos				
Hackelia virginiana				
Helianthus strumosus				
HEMEROCALLIS FULVA				
HESPERIS MATRONALIS				
Hydrophyllum virginianum				
Impatiens pallida				
Juniperus virginiana				
Lonicera prolifera				
LONICERA X BELLA				
MEDICAGO SATIVA				
MELILOTUS OFFICINALIS				
Monarda fistulosa				
Osmorhiza longistylis				
Osmunda claytoniana				
Oxalis stricta				
Parthenocissus quinquefolia				
Parthenocissus vitacea				
PASTINACA SATIVA				
Phlox divaricata				
Plantago rugelii				
Podophyllum peltatum				
Polemonium reptans				
Polygonatum biflorum				
Populus deltoides				

Prenanthes alba				
Prunus virginiana				
Quercus alba				
Ranunculus abortivus				
Rhus glabra				
Rhus typhina				
Ribes missouriense				
Rosa blanda				
Rosa carolina				
ROSA MULTIFLORA				
Rubus allegheniensis				
Rubus occidentalis				
RUMEX CRISPUS				
Sanguinaria canadensis				
Sanicula gregaria				
Senecio plattensis				
Smilacina racemosa				
Smilax hispida				
Smilax lasioneura				
Solidago canadensis				
Solidago gigantea				
TARAXACUM OFFICINALE				
Thaspium trifoliatum var. flavum				
Tilia americana				
Toxicodendron radicans				
TRIFOLIUM PRATENSE				
Uvularia grandiflora				
Veronicastrum virginicum				
Viola pubescens				
Vitis riparia				