

From: R Ross Gipple [REDACTED]
Sent: Saturday, January 12, 2019 8:25 PM
To: [REDACTED]
Subject: Re: Rewilding Iowa

Information for Redfield Farm file.

Roger Ross Gipple
[REDACTED]

"A town is saved, not more by the righteous men in it than by the woods and swamps that surround it. A township where one primitive forest waves above while another rots below--such a town is fitted to raise not only corn and potatoes, but poets and philosophers for the coming ages." HDT

On Sat, Jan 12, 2019 at 8:03 PM Leland Searles [REDACTED] wrote:
Ross,

See attachments concerning the plant inventory on your land along the Middle Raccoon River, Dallas County.

After glancing at the narrative report, I see three errors. One is corrected in the text but not on the map of data points: *Euonymus alatus* on the map in Appendix D should be *Euonymus atropurpureus*, Eastern Wahoo. Rough Bedstraw (*Galium asprellum*) is unlikely at this location, and the plants are either Shining Bedstraw (*G. concinnum*) or Scented Bedstraw (*G. triflorum*). In Table 2, *Hypericum ascyron* almost certainly is *H. majus*, Greater St. Johnswort. Live, learn, improve.

You'll see that I was quite impressed with the parcels in overall biodiversity and other features, as well as by specific plants. I described this land as having high conservation value. I'm glad INHF stepped in where DCCB did not.

I'm copying Mark with this message. Feel free to pass the attachments along to Joe McGovern. My species corrections should go to him as well.

Lee

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Section One: Vascular Plants

36 exotic spp. (19.0%) 163 native spp. (80.6%) 1 other spp. (0.4%)

GIPPLE PARCELS 2 & 3 VEGETATION SURVEY: SPECIES LIST, Sept. 30 & Oct. 2, 2016

GENUS	SPECIES	SUBSPECIES	FIELD CODE	COMMON NAME	NATIVE STATUS	STATUS	CofC	PLANT CMTRY
<i>Cyperus</i>	<i>cf. echinatus</i>			Globe Flatsedge	?????	?????	?????	Out of rank
<i>Abutilon</i>	<i>theophrasti</i>			Butterprint, Velvetleaf	yes	FACU	*	Crop edges
<i>Acer</i>	<i>rubrum</i>			Red Maple	yes	FAC	*	Silty floodplain
<i>Amaranthus</i>	<i>hybridus</i>			Smooth Pigweed	yes	UPL	*	
<i>Arctium</i>	<i>minus</i>			Common Burdock	yes	FACU	*	
<i>Bromus</i>	<i>inermis</i>			Smooth Brome	yes	FACU	*	
<i>Calystegia</i>	<i>sepium</i>			Hedge False Bindweed	yes	FACU	*	
<i>Cannabis</i>	<i>sativa</i>			Hemp, Ditchweed	yes	UPL	*	
<i>Chenopodium</i>	<i>album</i>			Lamb's-Quarters	yes	FACU	*	Stream terraces
<i>Cirsium</i>	<i>arvense</i>			Canada Thistle	yes	FACU	*	Stream terraces
<i>Cirsium</i>	<i>cf. vulgare</i>			Bull Thistle	yes	FACU	*	Pastures
<i>Conyza</i>	<i>canadensis</i>			Canada Fleabane	yes	FACU	*	Pastures, edges
<i>Daucus</i>	<i>carota</i>			Queen Anne's Lace	yes	UPL	*	Pasture edges
<i>Echinochloa</i>	<i>crus-galli</i>			Barnyard Grass	yes	FACW	*	Floodplains
<i>Festuca</i>	<i>avina</i>			Sheep Fescue	yes	UPL	*	Pastures, edges
<i>Glechoma</i>	<i>hederacea</i>			Creeping Charlie	yes	FACU	*	
<i>Leonturus</i>	<i>cardiaca</i>			Motherwort	yes	UPL	*	
<i>Lepidium</i>	<i>campestre</i>			Field Pennygrass	yes	FACU	*	
<i>Lonicera</i>	<i>morrowii</i>			Morrow's Honeysuckle	yes	FACU	*	Woods/Mesic to Wet
<i>Lysimachia</i>	<i>tatarica</i>			Tartarian Honeysuckle	yes	FACU	*	Woods/Xeric to Wet
<i>Maclura</i>	<i>nummularia</i>			Moneywort	yes	FACW	*	Wet Depressions, Stream banks
<i>Malus</i>	<i>pomifera</i>			Hedgeapple, Osage-Orange	no	FACU	*	
<i>Melilotus</i>	<i>cf. pumila</i>			Common Apple	no	*	*	
<i>Oxalis</i>	<i>sp.</i>	<i>cf. stricta</i>		Sweetclover	yes	FACU	*	
<i>Pastinaca</i>		<i>sativa</i>		Yellow Woodsorrel	yes	FACU	*	
<i>Phalaris</i>		<i>arundinacea</i>		Wild Parsnip	yes	UPL	*	Pastures, stream terraces
<i>Plantago</i>		<i>major</i>		Reed Canary-Grass	yes	FACW	**	Stream terraces, floodplains
<i>Rosa</i>		<i>multiflora</i>		Common Plantain	yes	FAC	*	
<i>Rumex</i>	<i>crispus</i>			Multiflora Rose	yes	FACU	*	Woods/Xeric to Wet
<i>Rumex</i>	<i>cf. obtusifolius</i>			Curly Dock	yes	FAC	*	
<i>Setaria</i>	<i>faberii</i>			Bitter Dock	yes	FACW	*	
<i>Setaria</i>	<i>italica</i>			Giant Foxtail Grass	yes	FACU	*	
<i>Taraxacum</i>	<i>officinale</i>			Bristly Foxtail Grass	yes	FACU	*	
<i>Trifolium</i>	<i>repens</i>			Common Dandelion	yes	FACU	*	
<i>Verbascum</i>	<i>thapsus</i>			White Clover	yes	FACU	*	
				Common Mullein	yes	UPL	*	

<i>Epilobium</i>	<i>ciliatum</i>	Fringed Willowherb	3	WetFringe
<i>Erechtites</i>	<i>hieracifolia</i>	American Burnweed	0	Disturbed Xeric
<i>Erigeron</i>	<i>annuus</i>	Daisy Fleabane	0	Disturbed Mesic
<i>Euonymus</i>	<i>atropurpureus</i>	Eastern Wahoo	7	WoodsMesic
<i>Euotrochium</i>	<i>maculatum</i>	Spotted JoePyeweed	5	WetShallow
<i>Fallopia</i>	<i>scandens</i>	Climbing False Buckwheat	2	SMesic
<i>Festuca</i>	<i>subverticillata</i>	Woodland Fescue	2	WoodsXeric
<i>Fragaria</i>	<i>vesca</i>	Woodland Strawberry	7	WoodsMesic
<i>Fragaria</i>	<i>virginiana</i>	Virginia Strawberry	3	WoodsMesic
<i>Fraxinus</i>	<i>americana</i>	White Ash	6	WoodsMesic
<i>Fraxinus</i>	<i>nigra</i>	Black Ash	9	WoodsWet
<i>Fraxinus</i>	<i>pennsylvanica</i>	Green Ash	3	WetFringe, WoodsWet
<i>Galium</i>	<i>aparine</i>	Cleavers	1	WoodsMesic
<i>Galium</i>	<i>osprellum</i>	Rough Bedstraw	10	WoodsWet
<i>Galium</i>	<i>boreale</i>	Northern Bedstraw	7	WoodsMesic
<i>Galium</i>	<i>circaezaeans</i>	Wild Licorice	6	WoodsXeric to Mesic
<i>Galium</i>	<i>cf. triflorum</i>	Fragrant or Sweet Bedstraw	7	WoodsXeric to Mesic
<i>Gentiana</i>	<i>alba</i>	Cream or Pale Gentian	4	PrairieMesic, WetFringe
<i>Geum</i>	<i>canadense</i>	White Avens	2	WoodsMesic
<i>Geum</i>	<i>cf. aleppicum</i>	Yellow Avens	6	WoodsWet
<i>Gleditsia</i>	<i>triacanthos</i>	Honeylocust	0	WoodsXeric to Mesic
<i>Glyceria</i>	<i>striata</i>	Fowl MannaGrass	0	PrairieXeric to Mesic
<i>Hackelia</i>	<i>virginiana</i>	Stickseed	0	WoodsMesic
<i>Helianthus</i>	<i>tuberosus</i>	Jerusalem Artichoke	0	WoodsMesic
<i>Heracleum</i>	<i>lanatum</i>	Cow Parsnip	4	WoodsMesic
<i>Hydrophyllum</i>	<i>virginianum</i>	Virginia Waterleaf	3	PrairieMesic to Wet
<i>Hypericum</i>	<i>ascyron</i>	Greater St.-Johnswort	6	WetFringe, WoodsWet
<i>Impatiens</i>	<i>sp.</i>	Jewelweed, Touch-Me-Not	3+	WetFringe, WoodsWet
<i>Juglans</i>	<i>nigra</i>	Black Walnut	4	WetFringe, WoodsWet
<i>Juniperus</i>	<i>virginiana</i>	Eastern Red-Cedar	1	PrairieXeric to Mesic, Smesic
<i>Lactuca</i>	<i>cf. biennis</i>	Tall Blue Lettuce	2	SMesic, WoodsMesic
<i>Laporta</i>	<i>canadensis</i>	Wood-Nettle	3	WoodsMesic to Wet
<i>Leersia</i>	<i>oryzoides</i>	Rice Cutgrass	2	WetShallow
<i>Lobelia</i>	<i>siphilitica</i>	Great Blue Lobelia	3	WetShallow
<i>Lycopus</i>	<i>cf. asper</i>	Rough Bugleweed	4	WoodsXeric to Mesic
<i>Maianthemum</i>	<i>racemosum</i>	False Solomon's-Seal	4	WoodsMesic
<i>Menispermum</i>	<i>canadense</i>	Canada Moonseed	5	WoodsXeric to Mesic
<i>Monotropa</i>	<i>uniflora</i>	Indian Pipe	7	WoodsMesic
<i>Morus</i>	<i>rubra</i>	Red Mulberry	4	Mesic Edges
<i>Muhlenbergia</i>	<i>asperifolia</i>	Scratchgrass	3	WetFringe
<i>Osmorhiza</i>	<i>frondosa</i>	Wirestem Muhyly	3	PRWet (PRMesic)
	<i>longistylis</i>	Sweet Cicely	5	WoodsXeric to Mesic

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<i>EPICIL</i>				
<i>EREHIE</i>				
<i>ERIANN</i>				
<i>EUOPUR</i>				
<i>EUTMAC</i>				
<i>FALSCA</i>				
<i>FESSUB</i>				
<i>FRAVES</i>				
<i>FRAAMC</i>				
<i>FRANIG</i>				
<i>FRAPEP</i>				
<i>GALAPA</i>				
<i>GALASP</i>				
<i>GALBOR</i>				
<i>GALCIR</i>				
<i>GALTRI</i>				
<i>GENALB</i>				
<i>GEUCAN</i>				
<i>GEUALE</i>				
<i>GLETRI</i>				
<i>GLYSTR</i>				
<i>HACVIR</i>				
<i>HELTUB</i>				
<i>HERLAN</i>				
<i>HYDVIR</i>				
<i>HYPASC</i>				
<i>Impatiens</i>				
<i>JUGNIG</i>				
<i>JUNVIR</i>				
<i>LACBIE</i>				
<i>LAPCAN</i>				
<i>LEEORY</i>				
<i>LOBSIP</i>				
<i>LYCASP</i>				
<i>MAIRAC</i>				
<i>MENCAN</i>				
<i>MONUN</i>				
<i>MORRUB</i>				
<i>MUHASP</i>				
<i>MUHFRO</i>				
<i>OSMLON</i>				

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Ostrya	<i>virginiana</i>	Eastern Hophornbeam	N	FACU	5	WoodsXeric to Mesic
Panicum	<i>capillare</i>	Witchgrass	N	FAC	0	Disturbed PrairieMesic
Panicum	<i>dichotomiflorum</i>	Fall Panicgrass	N	FACW	0	WetFringe
Parthenocissus	<i>quinquefolia</i>	Virginia Creeper	N	FACU	2	WoodsXeric to Mesic
Penthorum	<i>sedoides</i>	Ditch Stonecrop	N	OBL	3	WetShallow
Persicaria	<i>amphibia</i>	Water Smartweed	N	OBL	3	WetShallow
Persicaria	<i>amphibia</i>	Water Smartweed	N	OBL	3	Prairiewet, WetFringe
Persicaria	<i>hydropiper</i>	Common Water Pepper	N	OBL	6	WetShallow
Persicaria	<i>pensylvanica</i>	Pinkweed	N	FACW	0	WetFringe to Shallow WoodsMesic
Persicaria	<i>virginiana</i>	Jumpseed	N	FAC	5	WoodsMesic
Phlox	<i>divaricata</i>	Woodland Phlox	N		5	
Phryma	<i>leptostachya</i>	Lopseed	N		4	WoodsXeric to Mesic
Physalis	<i>longifolia</i>	Smooth Ground-Cherry	N		4	Disturbed PrairieMesic
Pilea	<i>pumila</i>	Clearweed	N		3	Floodplains, Bars, WoodsWet
Populus	<i>deltoides</i>	Eastern Cottonwood	N		1	WoodsMesic to Wet, Riparian
Potentilla	<i>norvegica</i>	Norwegian Cinquefoil	N		2	
Prunella	<i>vulgaris</i>	Heal-All, Self-Heal	N		0	WoodsMesic
Prunus	<i>serotina</i>	Black Cherry	N		3	SV, WoodsMesic
Prunus	sp. (SEE NOTE 1)		N		???	
Pycnanthemum	<i>tenuifolium</i>	Prunus	N		???	
Quercus	<i>alba</i>	PYCTEN	N		6	PrairieXeric to Wet
Quercus	<i>ellipsoidalis</i>	QUEALB	N		6	Xeric to Mesic SV & Woods
Quercus	<i>macrocarpa</i>	QUEELL	N		4	WoodsXeric
Quercus	<i>muhlenbergii</i>	QUEMAC	N		4	Xeric to Wet SV & Woods
Quercus	<i>cf. prinoides</i>	QUEMUH	N		7	WoodsXeric to Mesic
Quercus	<i>rubra</i>	QUEPRI	N		5	WoodsXeric to Mesic
Quercus	<i>velutina</i>	QUERUB	N		6	SV, WoodsMesic
Ranunculus	<i>abortivus</i>	QUEVEL	N		4	WoodsMesic to Wet
Ranunculus	<i>scleratus</i>	RANABO	N		0	Floodplains, WetShallow
Ribes	<i>typhina</i>	RANSCL	N		4	SVXeric to Mesic
Rorippa	<i>missouriense</i>	RHUTYP	N		3	SVXeric to Mesic
Rubus	<i>palustris</i>	RIBMIS	N		7	WetShallow
Rubus	<i>allegheniensis</i>	RORPAL	N		7	SV, WoodsUp
Rudbeckia	<i>occidentalis</i>	RUBALL	N		1	PrairieMesic to Wet WoodsWet, SVWet
Rudbeckia	<i>hirta</i>	RUBOCC	N		2	
Rudbeckia	<i>laciniata</i>	RUDHIR	N		2	
Rumex	<i>submontosa</i>	RUDSUB	N		4	
Sagittaria	<i>latifolia</i>	RUMALT	N		0	PrairieWet, WetFringe
Salix	<i>amygdaloidea</i>	SAGLAT	N		4	WetShallow
Salix	<i>cf. eriocephala</i>	SALAMY	N		1	Riparian WetFringe
Salix	<i>interior</i>	SALERI	N		0	Riparian WetFringe

<i>Salix</i>	<i>nigra</i>	Black Willow	N	yes	OBL	3	WetShallow
<i>Sambucus</i>	<i>nigra</i>	Common Elderberry	N	no	FACW	1	WetFringe
<i>Sanguinaria</i>	<i>canadensis</i>	Bloodroot	N	no	FACU	7	WoodsXeric to Mesic
<i>Sanicula</i>	<i>cf. marilandica</i>	Maryland Sanicle	N	no	FACU	5	WoodsXeric to Mesic
<i>Sanicula</i>	<i>odorata</i>	Clustered Black Snakeroot	N	no	FAC	5	WoodsMesic
<i>Scirpus</i>	<i>atrovirens</i>	Dark-Green Bulrush	N	no	OBL	1	WetFringe to Shallow
<i>Scrophularia</i>	<i>marilandica</i>	Maryland Figwort	N	no	FACU	4	SVXeric to Mesic
<i>Sicyos</i>	<i>angulatus</i>	One-Seeded Cucumber	N	no	FACW	2	WoodWet
<i>Smilax</i>	<i>cf. rotundifolia</i>	Round-Leaved Greenbrier	N	no	UPL	4	Xeric to Mesic SV & Woods
<i>Smilax</i>	<i>hispida</i>	Bristly Greenbrier	N	no	FAC	4	WoodsMesic
<i>Solanum</i>	<i>carolinense</i>	Horse-Nettle	N	yes	FACU	0	PrairieXeric to Mesic
<i>Solidago</i>	<i>altissima</i>	Tall Goldenrod	N	yes	FACU	0	WoodsXeric to Mesic
<i>Solidago</i>	<i>flexicaulis</i>	Zig-Zag Goldenrod	N	no	FACU	6	WetFringe
<i>Solidago</i>	<i>gigantea</i>	Giant Goldenrod	N	yes	FACW	3	WoodsXeric to Mesic
<i>Solidago</i>	<i>ulmifolia</i>	Elm-Leaved Goldenrod	N	no	UPL	6	WoodsMesic to Wet (understory)
<i>Stachys</i>	<i>cf. tenuifolia</i>	Smooth Hedge-Nettle	N	no	OBL	5	SV
<i>Staphylea</i>	<i>trifolia</i>	Bladdernut	N	no	FAC	7	WoodsMesic to Wet (understory)
<i>Symporicarpus</i>	<i>orbiculatus</i>	Coralberry, Buckbrush	N	no	FACU	0	SV
<i>Sympyotrichum</i>	<i>cordifolium</i>	Heart-Leaved Aster	N	no	UPL	7	
<i>Sympyotrichum</i>	<i>ericoides</i>	Heath Aster	N	no	FACU	3	
<i>Sympyotrichum</i>	<i>lateriflorum</i>	Calico Aster	N	no	FACW	4	
<i>Sympyotrichum</i>	<i>pilosum</i>	Hairy or Oldfield Aster	N	no	FACU	0	
<i>Teucrium</i>	<i>canadense</i>	American Germander	N	no	FACW	4	
<i>Tilia</i>	<i>americana</i>	American Basswood	N	no	FACU	5	
<i>Toxicodendron</i>	<i>radicans</i>	Poison-Ivy	N	yes	FAC	0	
<i>Typha</i>	<i>latifolia</i>	Broad-Leaved Cattail	N	no	OBL	1	
<i>Ulmus</i>	<i>americana</i>	American Elm	N	no	FACW	2	
<i>Urtica</i>	<i>rubra</i>	Slippery Elm	N	no	FAC	2	
<i>Uvularia</i>	<i>grandiflora</i>	Stinging Nettle	N	yes	FACW	0	
<i>Verbena</i>	<i>hastata</i>	Large-Flowered Bellwort	N	no	UPL	7	
<i>Verbena</i>	<i>urticifolia</i>	Swamp Vervain	N	no	FACW	3	
<i>Verbesina</i>	<i>alternifolia</i>	White Vervain	N	yes	FAC	2	
<i>Vernonia</i>	<i>fasciculata</i>	Wingstem	N	yes	FACW	4	
<i>Viburnum</i>	<i>cf. molle</i>	Prairie Ironweed	N	no	FACW	1	
<i>Viola</i>	<i>pubescens</i>	Softleaf Arrowwood	N	no	UPL	8	
<i>Viola</i>	<i>cf. sororia</i>	Pennsylvania Violet	N	no	FACU	5	
<i>Vitis</i>	<i>riparia</i>	Common Blue Violet	N	no	FAC	1	
<i>Xanthoxylum</i>	<i>americanum</i>	Riverbank Grape	N	yes	FACW	1	
		Prickly-Ash	N	no	FACU	3	

*Where native species are marked as "yes" in the Invasive Status column, this denotes that the species often occurs as a strongly dominant or monocultured species.
This is because of historical disturbances such as clearcutting in woodlands, drainage and refilling of wetlands, and the like.

SoC

Section Two: Fungi

GENUS	SPECIES	SUBSPECIES	FAMILY	COMMON NAME	SUBSTRATE
<i>Calvatia</i>	<i>cyathiformis</i>		Agaricaceae	Purple-Spored Puffball	saprobe
<i>Calvatia</i>	<i>gigantea</i>		Agaricaceae	Giant Puffball	saprobe
<i>Lycoperdon</i>	<i>cf. molle</i>		Agaricaceae	Smooth Puffball	saprobe
<i>Amanita</i>	<i>cf. pantherina</i>		Amanitaceae	Panther	ectomycorrhizal
<i>Condelaria</i>	<i>concolor</i>		Candellariaceae		photoautotroph
<i>Daedalea</i>	<i>quercina</i>		Fomitopsidaceae	Oak Mazegill	saprobe
<i>Entoloma</i>	<i>sp.</i>				
<i>Ischnoderma</i>	<i>resinosum</i>		Fomitopsidaceae	Late Fall Polypore	saprobe
<i>Graphis</i>	<i>scripta</i>		Graphidaceae	Script Lichen	photoautotroph
<i>Hygrophorus</i>	<i>niveus</i>		Hygrophoraceae	Waxy Cap	ectomycorrhizal
<i>Marasmius</i>	<i>cf. coherens</i>		Marasmiaceae	Little Brown Mushroom	saprobe
<i>Physcia</i>	<i>millegrana</i>		Physciaceae		photoautotroph
<i>Physcia</i>	<i>stellaris</i>		Physciaceae	Rosette Lichen	photoautotroph
<i>Pleurotus</i>	<i>ostreatus</i>		Pleurotaceae	Oyster Mushroom	photoautotroph
<i>Cerrena</i>	<i>unicolor</i>		Polyporaceae	Mossy Maze Polypore	saprobe
<i>cf. Polyporus</i>	<i>squamosus</i>		Polyporaceae	Dryad's Saddle	parasitic
<i>Trametes</i>	<i>cf. pubescens</i>		Polyporaceae		saprobe
<i>Trametes</i>	<i>versicolor</i>		Polyporaceae	Turkey-Tail	saprobe
<i>Russula</i>	<i>cf. pulchra</i>		Russulaceae	Bloody Brittlebill	ectomycorrhizal
<i>Russula</i>	<i>cf. sanguinea</i>		Russulaceae	Rosy Russula	ectomycorrhizal
<i>Schizophyllum</i>	<i>commune</i>		Schizophyllaceae		saprobe
<i>Aleurodiscus</i>	<i>oakesii</i>		Stereaceae	Oak Disc or Parchment	parasitic
<i>Stereum</i>	<i>complicatum</i>		Stereaceae	Crowded Parchment	saprobe
<i>Stereum</i>	<i>hirsutum</i>		Stereaceae	False Turkey-Tail	saprobe
<i>Leparia</i>	<i>sp.</i>		Stereocaulaceae	Dust Lichen	photoautotroph
<i>Xanthomendoza</i>	<i>sp.</i>		Teloschistaceae	Sunburst Lichen	photoautotroph

NOTE 1 A *Prunus* sp. Specimen about 4 ft. tall with seedlings below clearly was not *P. serotina*, but had features of several other species, notably *P. virginiana* (Chokecherry). However, some features also suggested *P. pensylvanica* (Pin Cherry) and *P. padus* (European Bird Cherry). Lack of any inflorescence fragments hampered identification.