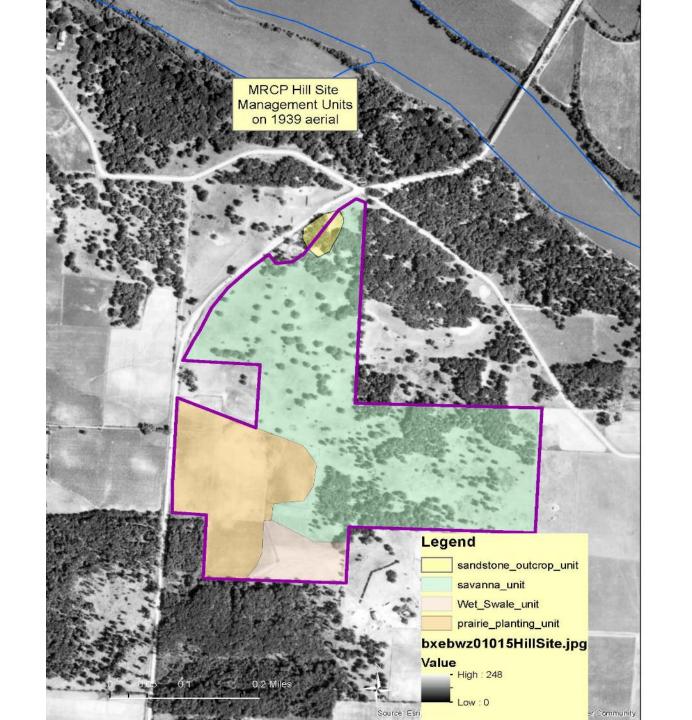
MRCP Hill Site

Augusts 27, 2020 Vegetation survey for the small Sandstone Outcrop Unit by the concrete wall on Route 2 Botanist Chris Benda sampled one day at this unit.

This summary by Bill Kleiman







These are the locations of the random 1 meter sampling plots



Hardin Savanna,	MRCP property			Colle	ctor(s)_Ch	ris Be	nda_					Page	_1_	_of 1									
Unit: DOT					Trans	sect s	tart La	at: 41	.8867	90		Long	: -89.4	12497	1									
Date: 8/27/2020									Raw	data	scann	ed &	saved	d? Yes	s. T dr	ive 8	MRC	P BO	K- BIC	:				
Quadrat: 1 m2								Cove	r: Use	≘ % to	the	neare	st wh	ole n	umb	er	Data	ente	red b	v Ann	a Sch	eidel	, Jan 2	2021
						Cover: Use % to the nearest whole number NW DOT few acres. There is a map showing ra																		
							37 species w/in plots								ig rui		pts t	JIX						
											•													
						31 species outside plots																		
		Ranc	lom 1	mete	_																			
Genus	Species	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121		
bare soil	bare soil	74	30	76	40	30	51	85	70	70	95	51	65	95	96	85	50	95	55	80	95	80		\perp
Lonicera	maackii	20	-	-	35	70	2	10	35	10	4	10	20	2	2	-	-	8	40	1	3	22		\perp
Alliaria	petiolata	-	-	1	-	4	10	2	-	1	-	40	-	-	-	-	-	-	-	2	-	-		
Parthenocissus	inserta	1	15	10	24	4	3	-	3	12	-	2	15	1	-	-	2	-	-	3	-	1		
Circaea	canadensis	-	-	8	4	-	6	-	-	15	-	2	-	-	-	-	-	-	-	6	-	-		
Morus	alba	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	-	-		
Osmorhiza	claytonii	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-		
Viola	missouriensis	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-		
Ribes	missouriense	-	-	-	-	-	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Ambrosia	artemisiifolia	-	-	-	-	-	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Fraxinus	quadrangulata	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Vitis	vulpina	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-		
Celtis	occidentalis	-	-	-	-	-	2	-	2	-	-	3	2	-	3	2	-	-	-	-	-	-		
Quercus	velutina	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Hackelia	virginiana	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Geum	canadense	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	4	-	-	-	-	-		
Smilacina	racemosa	-	-	-	-	-	-	-	-	-	2	-	6	-	-	-	-	-	-	-	-	2		\perp
Prunus	serotina	-	-	-	-	-	-	-	-	-	1	-	-	-	3	-	-	-	-	-	-	-		
Rosa	multiflora	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	6		
Prunus	americana	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-		
Viburnum	prunifolium	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-		
Podophyllum	peltatum	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Rubus	occidentalis	-	7	-	-	-	-	-	-	-	-	-	-	-	-	-	7	-	-	-	-	-		
Toxicodendron	radicans	-	3		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2		
Viburnum	opulus	-	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3		
Agrimonia	gryposepala	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Zanthoxylum	americanum	-	-	-	-	2	-	7	-	-	-	-	-	-	-	15	-	-	-	-	-	-		
Ulmus	rubra	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		\bot
Rhamnus	catartica	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-		
Oxlis	stricta	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

Page 2 of 2 of the data

Oxlis	stricta	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Enemion	biternatum	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Oenothera	biennis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	-	-		
Dichanthelium	praecocius	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	-	-	-	-	-		
Carex	blanda	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-		
Carex	albicans	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-		
Symphyotrichum	laternifolium	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	-	-	-	-	-		
Ageratina	altissima	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	-	-	-	-	-		
Acer	rubrum	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-		

31 plant species Benda found outside the plots

31 brant species	Benda Tound ou	iside the p	IOLS
8/27/2020			
Genus	species		
Lonicera	x bella		
Ptelen	trifoliata		
Acer	saccharum		
Quercus	alba		
Carya	glabra		
Juniperus	virginiana		
Smilax	tamnoides		
Polygonatum	biflorum		
Rubus	allegheniensis		
Quercus	rubra		
Erigeron	canadensis		
Phyma	leptostachya		
Robinia	psendoacacia		
Anemone	virginiana		
Antennaria	plataginifolia		
Aquilegia	canadensis		
Lactuca	canadensis		
Erectides	hieracifolia		
Carya	cordiformis		
Eupatorium	purpureum		
Phytolacea	americana		
Verbaceum	thapsus		
Chenopodium	album		
Acalypha	rhomboidea		
Antenoron	virginianum		
Gleditsia	triacanthos		
Ambrosia	trifida		
Daucus	carota		
Erigeron	annuus		
Equisetum	arvense		
Equisetum	hymale		

Notable points

- This 2020 vegetation survey followed the protocols of the 2019 veg survey, but we did not sample trees outside the plots since brush work had already started at the site.
- We had thought to redo the 1980s sampling technique that was done in this unit for Department of Transportation but that data was not available. So we copied the 2019 sampling protocol.
- There is a slide show summary of the 2019 sampling on the MRCP website

- The plant community is weedy
- There was 70% average of bare soil in the plots
- The top ten plants in cover were *European cranberry*, *honeysuckle*, annual ragweed, *mulberry*, panic grass, calico aster, *garlic mustard*, blackhaw, may apple. Italics are weeds.
- Data and all photos stored on Box with MRCP
- Sample photos follow









The End