ISU Monarch Data Summary for NCIG

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Table 1 and 2 provide mean count of nectar plant species averaged across all data collection events. Table 3 provides mean count of milkweed ramets. Values in table represent the specific counting unit for each species, not necessarily a whole plant. Table 4 and 5 provide nectar plant species density (per 100m2) averaged across all data collection events. Table ?? provides mean density of milkweed ramets. Values in table represent the specific counting unit for each species, not necessarily a whole plant.

Table ?? provides average land cover percentage averaged across all data collection events.

Table ?? provides average amount of vegetation across all data collection events.

Table ?? provides total number of monarchs sighted anywhere around site during entire time at site, number of monarchs sighted during a survey period, number of milkweed ramets (an upper limit of 20 per round per site, although the same milkweed may have been surveyed in different rounds), number of monarch eggs counted on milkweed plants (if no milkweed present, no monarch eggs present, number of monarch larvae (caterpillars) counted on milkweed plants (if no milkweed present, no larvae present).

Table 1: 2016 nectar plant species: mean count across all surveys

birdsfoot trefoil black eyed susan black medic black medic canada goldenrod canada thistle carolina horsenettle carolina horsenettle common cinquefoil common walveded common millen common mi	7.7	9.0	1 1	272.0	20.3								,	
ill - 18.3 - 1 ban 1.0 - 8.3 - 1 cod - 8.3 - 1 rodd - 1.0 - 1 rettle - 2.0 - 1 w reed - 2.0 - 1 w 1.0 3.3 - 1 w 231.7 - 1 ce - 104.0 - 1 transparsable - 104.0 - 1 ce - 104.0 - 11.3 w 1.3 1.7 - 1 w 1.3 1.7 - 1 w 1.3 1.8 1.7 - 1 w 1.3 1.8 1.7 - 1 w 1.3 1.8 1.7 - 1 w 1.3 1.8 1.8 1 w 1.3 1.7 - 1 w 1.3 1.7 - 1 w 1.3 1.7 - 1 w 1.3 1.3 1 wer - 1 1.3	7.3 2.3 2.3	0.6	1			ı	ı		ı		ı	ı		
an 1.0 - 8.3 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6	7.3 2.3			1	ı	ı	33.3	ı	ı	ı	ı	,	,	- 191.0
an 1.0 - 8.3	7.3 2.3	1	1	1	1	•	1	- 2	210.3	ı	ı	ı		
bettle	7.3 2.3		1	1	ı	1	ı	,	ı	ı	ı	ı		1
red - 2.0	7.3 2.3	,	1	1	1		1	ı	1	ı	ı	ı	,	,
tettle - 2.0	7.3 2.3	ı	1	ı	ı	ı	ı	1.0	ı	ı	ı	ı	ı	1
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efoil	- 30	2.7 33.3	3 9.7	1	11.7	1	ı	1	13.3	1	1	,	1	1
lion 1.3 1.0	2.5		1	1	ı	1	ı	,	ı	ı	ı	ı		1
ng primrose	0.7	,	1	1	ı	ı	ı	ı	ı	ı	ı	ı	,	ı
weed	1	ı	1	1	ı	ı	ı	1	17.3	ı	1	ı	,	1
reed 1.7 2.7	1	ı	1	1	ı	ı	ı	1	ı	ı	1	ı	,	1
in 1.7 2.7		ı	1	0.3	1.0	ı	ı	1	ı	ı	1	'	.3	1
w 1.0 3.3	1	- 0.3	3	1	ı	ı	ı	ı	2.0	ı	ı	ı	,	ı
1.0 3.3 0.3 ge	1	ı	1	1	1	ı	1	,	2.7	ı	ı	ı	,	,
teabane	1	,	1	1	1	•	1	,	ı	ı	ı	ı		
se 3.0 3.3 int 3.0 3.3 int 3.0 ST 3.3 ST 3.3 ST 0.3 ST 104.0 Ce 104.0 The standard standa	- 0.3 -	2.3 11.	- 2	1	1	ı	1	ı	1.3	ı	ı	ı		- 37
lets 3.3 it	1	1	1	1	1	ı	1	ı	1	ı	ı	ı		,
it 231.7 0.3 sr	- 3.3 -	ı	1	1	1	ı	ı	,	ı	ı	ı	ı	,	,
sr	1	,	- 16.7	1	1	•	1	,	ı	ı	ı	ı		
ce	- 0.3 -	•	1	26.0	10.7	•	ı	,	1	ı	,	ı	,	1
ce	1	- 4.	- 0	1	1		1	ı	1	ı	ı	ı	,	,
ce	1	1	1	1	ı	1	ı	ı	ı	ı	ı	ı	,	1
ce 104.0	1	ı	1	1	ı	1	ı	ı	ı	ı	ı	4.3	,	ı
4.0 - 2.7 377.0 0.3 15 1.3 1.7 11.3 11.3 388.7 473.3 - 8.0	1	85.0	1	ı	ı	1	3.3	ı	ı	ı	ı	٠ 3	38.0	- 10.7
1.3 1.7 - 11.3 1.3 0.7 388.7 473.3 - 8.0	0 0.	129.0	1	82.3	415.7	7.3	25.0	,	1	1	,	ı	,	- 32.
388.7 473.3 - 8.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0 - 3.0	- 11.3	ı	1	1	1	1	1	,	1	ı	,	ı	,	1
388.7 473.3 - 8.0	1	ı	- 2.3	1	1	ı	1	,	ı	ı	ı	ı	1	,
388.7 473.3 - 8.0 -	- 0.7 -	ı	1	1	1	ı	ı	,	ı	ı	ı	ı	1	
white sweet clover whitestar	8.0 - 16.0	13.7 2.0	- 0	1	- 10	7.7	257.0	,	1	ı	ı	ı	1	- 7
whitestar	1	1	1	1	1	ı	1	ı	1	ı	ı	1	.3	,
	1	ı	1	ı	ı	ı	ı	1	13.7	ı	ı	ı	ı	1
whorled milkweed	1	,	1	1	1	•	1	ı	2.0	,	ı	,	,	,
wild mustard 11.	11.0	ı	1	1	1	ı	ı	,	1	ı	ı	ı	1	,
yellow sweet clover	1	ı	1	1	1	1	1	,	1	,	1	4.3	,	1

Table 2: 2017 nectar plant species: mean count across all surveys

Nectar Plant Species	all1	all2	arm1	arm2	ber1	ber3	crel d	dun2 d	dun3	grol	gro2	nkn1	nkn2	nor1	pio1	pio2	prd1	prd2 s	sie1 sı	sut2	ver1
alfalfa				16.3	'							١.	1	١,	,				١,		١
bedstraw	1	1	1	1	1	1	ı	ı	1	1	ı	1	1	1	1	429.0	1	ı	,	,	1
birdsfoot trefoil	1	1	10.7	1	1	1	•	1	1	ı	ı	574.3	184.0	1	1	•	1	•	,	,	0.07
black eyed susan	1.0	1	1	0.7	1	1	2.3	1.0	1	1.0	1.3	14.7	36.7	3.0	1	1.0	0.3	2.0	1	0.3	1.0
black medic	1.7	٠	1	ı	0.3	0.3	- 2	98.0 1	64.0	ı	•	1	1	16.3	1.0	204.3	ı	'	0.3	,	٠
bladder campion	34.0	•	1	1	1	1	ı	1	1	1	ı	1	1	1	1	1	1	ı	ï	ï	•
blue vervain	1	1	1	0.3	1	1	ı	1	1	ı	1	1	30.0	501.0	1	1	ı	•	,	,	•
brown eyed susan	1	0.3	0.7	1	1	1	ı	0.7	1.7	1	1	1	1	ı	0.9	1	1	1.0	1	,	0.3
buffalobur nightshade	ı	1.3	ı	1	1	1	ı	ı	1	ı	ı	ı	ı	ı	1	ı	ı	ı	ı	1	١
canada anenome	ı	1	ı	ı	ı	ı	ı	ı	1	ı	1	ı	ı	ı	1	ı	ı	1	2.0	,	١
canada thistle	1	1	1	1	1	1	ı	ı	ı	ı	2.3	1	1	1.0	ı	1	ı	ı	,	,	1
chicory	1	1	ı	1	1	1	ı	ı	1	ı	1	18.3	2.7	1	1	1	ı	1	1	,	٠
clasping venus looking glass	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4.7	1	1	,	,	٠
common cinquefoil	1	ı	1	1	1	0.3	ı	1	1	ı	ı	0.3	4.0	1.3	1	1	1	ı	,	,	0.3
common dandelion	1	1	0.3	11.0	1	0.9	ı	2.0	ı	1.0	1.3	19.7	20.7	0.3	1	1	1	1.7	- 2	1.0	0.3
common mallow	1	1	1	1	1	1	ı	1	1	ı	ı	1	1	0.7	ı	1	1	ı	,	ı	ı
common mullein	1	•	1	1	1	1	ı	0.3	0.3	ı	1	1	1	1	•	ı	ı	ı	,		•
common purslane	1	ı	1	1	1	1	ı			1	ı	1	1	1.0	1	1	,	ı	,	,	ı
common varrow	ı	ı	ı	,	ı	,	ı	ı	,	ı	ı	2.3	88.7	, ,	ı	1	ı	ı			ı
compass plant	,	ı	1	1	1	1	ı	,	13	ı	ı) '	. I	ı	ı	ı	ı	4.3	,	,	ı
culvers root	1	ı	1	,	,	,	ı	,) 1	,	0.3	1	1	1	ı	1	1) 1	,	,	ı
eastern black nichtshade	,	ı		0.0	١	١	ı	2 9	,	,)	١	,	ı	1	١	0.3	ı	,	,	ı
eastern daisy Heahane				i	11 7	13.0	10.7		73.7						1.0	10.3	·			,	0.06
fold nonniverses						0.01		2.	_	0.06	1	7 7	1		0:1	0.01	1			. ⊂	0.01
formal prompt prompt forms	ı	ı	ı	ı	'	ı	ı			0.03	0.1	1.0	ı	ı	ı	1	ı	ı		0.0	ı
cognove beardiongue	ı		ı	ı	ı	ı	ı	ı	· ~	ı		ı		ı	1	ı	ı	ı			
groundenry	ı	ı	1	1	1	1	ı	ı	5.5			- 20	ı	ı	ı	ı	ı	ı			ı
hoomy roundin	ı		ı	ı	ı	ı	ı	ı	ı	ı		.00.	ر د		ı	ı	ı	ı			
inosinos	1		ı	ı	ı	ı	٠ -	ı		ı	ı	1	4.o	0.5		ı	ı	ı			
Ironweed .	1 6	ı	ı	1	ı	ı	1.0	ı	1	ı	ı	ı	ı	ı	ı	ı	ı	ı			ı
morning glory	2.3	ı	ı	1 (ı	ı	ı	I]	1 (ı	ı	I (ı	ı	ı	ı	ı	ı	,	,	ı
musk thistle	ı	ı	ı	2.0	ı	1	ı	12.7	0.3	1	1	1.0	ı	ı	1	ı	ı	ı	ı	,	1
ox eye sunflower	ı	ı	1	1	ı	1	ı	1	1	0.3	0.3	1	1	1	1	1	ı	1	1	1	1
	1	1	1.0	2.0	1	1	ı	3.3	0.3	ı		1.0	4.3	8.0	5.3	4.0	ı	2.7	0.3	2.0	•
	13.3	1	ı	ı	1	ı	ı	3.3	0.7	ı	•	ı	ı	ı	1	ı	ı		ı	ı	
prairie cinquetoil	1	1	ı	ı		ı	ı	1	1	ı	ı	ı	ı	ı	1	1	1 (I]	ı	ı	1
prickly sowthistle	ı	1	ı	ı	ı	ı	ı	ı	1	ı	ı	ı	ı	ı	ı	1	0.3	0.7	ı	ı	ı
pe	1 (3.3	ı	ı	ı	ı		ı	ı	ı	•	1	1	ı	1	ı	0.3	1 1	ı	ı	ı
	12000.0	ı	ı	ı	ı	ı	ı	ı	ı	ı	ı	ı	1	ı	ı	ı	ı	1.7		,	ı
queen annes lace	ı	1		1	1	1	96.7	2.0	8.3		ī		67.7	3.3	1	0.3	ı	1	3.0	-	0.00
red clover	2.7	1	29.3	129.7	67.7	356.3	12.3	8.0	9.3	506.7 5	538.7 3	360.0	396.0	0.7	0.7	14.0	ı	ı	ı	ı	0.91
rough avens	1	ı	ı	ı	ı	ı	ı	ı	ı	ı	ı	ı		ı	1	ı	1	ı	ı	0.3	1
shepherds purse	1	1	1.3	0.6	1	ı	ı	ı	1	2.7	31.7	4.0	3.3	ı	1	1	21.0	0.3	9 -	0.3	•
shortstalk chickweed	1	1	1	ı	1	ı	ı	1	15.3	1	1	1	1	ı	1	1	ı	1	ı	1	•
smartweed	1.3	14.3	1.3	3.3	218.3	47.7	7.0	2.3	11.3	2.0	10.0	82.7	257.3	ı	1	1	ı		ı		1
venice mallow	ı	ı	ı	1	1	1	ı	ı	ı	ı	ı	0.3	1	1	1	1	ı	ı	ı	ı	ı
white clover	1	1	2.3	87.3	1	33.7	0.7	74.7 6	05.7	1.7	•	74.7	74.3	0.6	1	1	ı	•	ı	- 1	35.3
white sweet clover	1	2.7	1	1	1	1	ı	1	1	ı	•	1	1	ı	1	1	ı	•	,	,	•
wild mustard	1	1	1	1	1	1	1	1	1	18.3	2.9	1.0	1	1	1	0.7	1	1	1	1	1
yellow coneflower	ı	1	ı	ı	ı	ı	ı	ı	1	ı	1	ı	2.0	ı	1	ı	ı	1	ı	,	١
yellow sweet clover	ı	ı	1	ı	1	ı	ı	ı	1.7	ı	ı	ı	1	ı	1.3	ı	ı	ı	ı	,	ı
yellow wood sorrel	1	1	1	1	1	1	1	10.3	31.7	ı	1	1	1	20.0	1	4.3	ı	1	ı	1.3	1

Table 3: 2017 nectar plant species: mean count across all surveys

Nectar Plant Species all1 all2 arm1 arm2 ber1 ber3 cre1 dun2 dun3 gro1 gro2 nkn1 nkn2 nor1 pio1 pio2 prd1 prd2 sie1 sut2 ver1

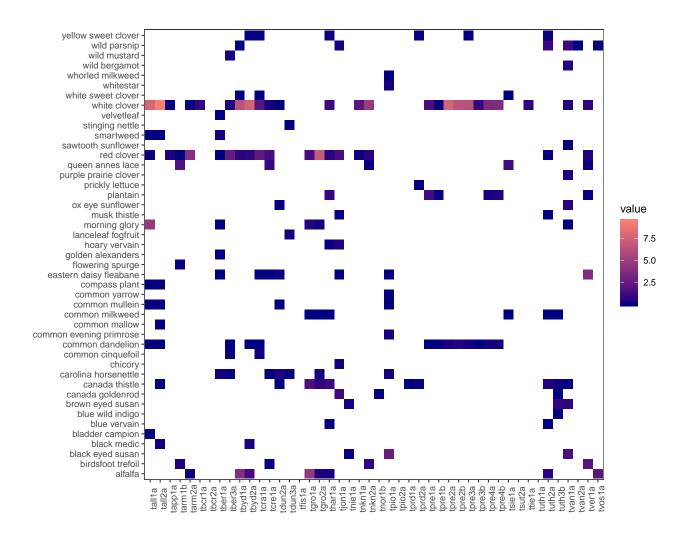


Table 4: 2016 Nectar plant species density: average density (count $/\ \mathrm{m2})$ across all rounds

Nectar Plant Species	tallla t	all2a ta	ppla ta	tall2a tapp1a tarm1b tarm2a	arm2a t	bcrla t	bcr2a t	berla 1	tber3a t	bydla t	tbyd2a 1	tcrala t	tcrela t	tdun2a 1	tdun3a 1	tfisla t	grola t	gro2a t	thar1a
alfalfa	1	1	1	1	0.08	1	1	1	1	3.79	1.29	1	1	1	1	1	4.53	0.34	0.22
birdsfoot trefoil	1	ı	1	0.31	1	1	1	1	1	ı	1	1	0.10	1	1	1	1	1	1
black eyed susan	1	ı	ı	1	•	1	1	1	1	1	1	1	1	1	1	1	1	1	1
black medic	1	0.17	1	1	1	1	1	1	1	1	0.34	1	1	1	1	1	1	1	1
bladder campion	0.02	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-
blue vervain	ı	ı	ı	1	1	ı	1	1	ı	ı	1	ı	1	1	1	ı	1	ı	0.04
blue wild indigo	1	ı	ı	1	•	1	•	ı	1	ı	ı	1	1	ı	1	ı	1	ı	1
brown eyed susan	ı	ı	ı	1	1	1	1	1	1	ı	ı	1	1	ı	1	ı	1	ı	1
canada goldenrod	1	ı	1	1	1	1	ı	1	ı	1	1	1	1	1	1	1	1	1	1
canada thistle	1	0.04	1	1	•	•	1	•	1	1	1	1	1	0.01	1	1	1.56	0.76	1.02
carolina horsenettle	1	ı	ı	1	1	1	1	0.15	0.05	1	1	1	0.03	0.33	0.10	1	1	0.19	ı
chicory	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
common cinquefoil	1	ı	ı	1	1	1	1	1	0.00	1	1	0.12	1	1	1	1	1	1	1
common dandelion	0.03	0.02	ı	1	1	1	1	1	0.01	1	0.02	0.02	1	1	1	1	1	1	1
common evening primrose	1	1	ı	1	•	•	1	•	1	1	1	1	1	1	1	1	1	1	1
common mallow	1	0.04	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
common milkweed	1	ı	ı	1	•	1	1	1	1	1	1	1	1	1	1	1	0.01	0.02	0.01
common mullein	0.03	0.05	1	1	1	1	1	1	1	1	1	1	1	0.00	1	1	1	1	1
common yarrow	1	ı	ı	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
compass plant	0.02	0.07	1	1	1	ı	1	1	1	1	1	ı	1	1	1	1	1	ı	1
eastern daisy fleabane	1	1	1	1	1	ı	ı	0.01	ı	ı	1	0.05	0.02	0.12	ı	1	1	1	ı
flowering spurge	1	ı	1	0.05	1	1	ı	1	ı	1	1	1	1	1	1	1	1	1	1
golden alexanders	1	ı	1	1	1	1	1	0.07	ı	ı	1	ı	1	1	1	1	1	ı	1
hoary vervain	1	ı	ı	1	1	1	ı	1	ı	ı	ı	1	1	1	1	ı	1	1	0.06
lanceleaf fogfruit	1	1	1	1	1	ı	ı	1	ı	ı	1	ı	1	1	0.17	1	1	1	1
morning glory	4.63	ı	ı	1	1	1	ı	0.01	ı	ı	1	ı	ı	1	1	ı	0.43	0.18	1
musk thistle	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ox eye sunflower	1	ı	ı	1	1	1	1	1	ı	1	1	1	1	0.04	1	ı	1	1	1
plantain	1	ı	ı	1	•	1	•	1	1	ı	ı	1	1	ı	1	ı	1	ı	0.81
prickly lettuce	1	ı	ı	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
purple prairie clover	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
queen annes lace	ı	ı	ı	1.73	1	1	ı	1	1	ı	ı	1	98.0	ı	1	1	1	ı	1
red clover	0.08	ı	0.33	0.04	3.77	ı	ı	0.01	2.48	0.58	0.70	2.30	1.38	1	1	1	1.37	6.93	0.62
sawtooth sunflower	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
smartweed	0.03	0.03	1	1	1	1	ı	0.23	1	1	1	ı	1	1	1	1	1	1	1
stinging nettle	ı	ı	ı	1	1	1	1	1	1	ı	1	1	1	ı	0.02	ı	1	1	1
velvetleaf	1	ı	ı	1	1	1	ı	0.01	ı	ı	ı	1	1	1	1	ı	1	1	1
white clover	7.77	9.47	0.02	1	0.08	0.84	1	1	0.32	6.45	7.57	1.92	0.18	0.02	1	1	1	1	1.10
white sweet clover	1	1	1	1	1	1	1	1	1	0.03	1	0.02	1	1	1	1	1	1	ı
whitestar	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
whorled milkweed	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
wild bergamot	ı	ı	ı	1	1	1	1	1	1	ı	1	ı	1	1	1	1	ı	ı	1
wild mustard	1	ı	ı	1	1	1	1	1	0.22	1	1	1	1	1	1	1	ı	1	1
wild parsnip	1	1	ı	1	1	1	1	1	1	0.00	1	1	1	1	1	ı	1	1	1
yellow sweet clover	1	1	1	1	1	1	1	1	1	1	0.01	0.03	1	1	1	1	1	1	0.14

birdstoot trefoil black eyed susan	' 6	ı	' (0.18	' 6	ı	1	1	1	1	1	1	ı	ı	1	ı	1	1	
black eyed susan																			
oipour zoold	0.02	1	0.21	1	0.01	1 (1 (1 ,	1 ,	0.05	0.00	0.01	0.05	0.01	1 .	ı	0.05	0.05	
Diack ineque	0.03	ı	0.05	1	1	2.04	0.03	0.01	0.01	0.52	3.77	ı	1	2.98	1.64	ı	1	ı	0.5
bladder campion	0.68	•	•	•	1	•	1	1	1	•	1	1	1	•	1	ı	ı	1	
blue vervain	ı	1	0.02	1	0.00	1	1	1	i	1	1	1	1	1	i	ı	1	1	
brown eyed susan	1	0.01	1	0.01	1	1	1	1	1	1	1	0.01	1	0.01	0.02	1	1	1	
buffalobur nightshade	ı	0.03	ı	1	ı	1	1	ı	ı	1	1	1	1	1	1	1	ı	1	
canada anenome	ı	1	ı	1	ı	ı	1	1	ı	1	1	ı	1	ı	1	ı	ı	1	
canada thistle	1	•	1	1	1	1	1	1	1	•	1	1	•	•	1	ı	ı	0.04	
chicory	Ī	ı	I	ı	ı	ı	1	1	ı	1	ı	1	1	ı	1	ı	1	ı	
clasping venus looking glass	1	1	1	1	1	1	1	1	ı	1	1	1	1	1	1	1	1	1	
common cinquefoil	İ	1	ı	1	ı	1	ı	ı	0.01	1	1	0.14	1	1	1	ı	ı	1	
common dandelion	ı	1	90.0	0.01	0.11	0.11	0.03	1	0.12	0.27	0.55	ı	ı	0.02	1	ı	0.02	0.02	
common evening primrose	1	1	ı	1	1	1	1	1	1	1	1	0.17	1	1	1	1	1	ı	
common mallow	•	•	1	1	1	1	1	1	1	•	1	1	•	•	•	1	1	1	
common milkweed	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	ı	1	
common mullein	ı	1	1	1	1	i	1	1	ı	1	1	1	1	0.00	0.00	ı	1	1	
common purslane	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
common yarrow	1	1	ı	1	ı	ı	1	1	1	1	1	ı	1	1	1	1	1	1	
compass plant	1	1	0.01	1	1	1	1	1	1	1	1	1	1	1	0.01	1	1	1	
crown vetch	•	١		'	,	1	,	,	1	٠	'	1	'	'		1	1	1	
culvers root	1	•	1	•	1	1	1	1	1	•	1	1	•	1	•	ı	1	0.01	
eastern black nightshade	•	•	1	•	0.03	•	•	1	1	•	1	1	•	0.07		1	1		
eastern daisy fleabane	1	,	,	,	1	,	1	0.23	0.26	,	,	0.35	0.50	0.06	0.74	1	1		
field nennycress	,			•	•	•	,) 		•)			•		0.33		
foxelove beardtonene	'			'		' '	' '			'	'	' '	'				5.0	0.02	
eronndeherry	1		ı	1	ı	ı					1	1			000	ı	ı	10.0	
Broundancii y	ı	ı	ı	ı	ı	ı	I	I		ı	ı	Į.	ı	ı	0.0	ı	Į.	ı	
lawkweed			ı		ı	ı	ı	ı			1	ı			ı	ı	ı	ı	
noary alyssum	1	1	ı	1	1	ı	1	1		' 6	1	ı	1	1	1	ı	ı	ı	0.4
noary vervain	ı	ı	ı	1	ı	ı	1	1		0.00	1	1	' 5	ı	1	ı	ı	ı	١.٠
Ironweed	Ī	ı	' ;	ı	ı	ı	ı	ı		ı	1	ı	0.01	ı	ı	ı	ı	ı	
marestan	1 		0.41	1	1		1	ı		1	ı	1	1		ı	ı	ı	ı	(
morning glory	0.05	ı	ı	1	1 (1	1	ı		1	1	1	1	1 (1 0	ı	1	ı	0.7
musk thistle	ı	ı	ı	1	0.05	1	ı	ı		1	1	ı	1	0.13	0.00	ı	1 1	1 ,	
ox eye sunflower	ı	ı	l j	1 (1 (I (I (ı		1 (1 1	1 1	1	I (1 (ı	0.01	0.01	
partridge pea	I]	1	0.02	0.05	0.05	0.10	0.08	1		0.08	0.02	0.15	1	0.03	0.00	ı	1	1	
pineapple weed	0.27	ı	ı	1	1	İ	1	<u> </u>		1	1	ı	1	0.03	0.01	ı	1	ı	
prairie cinquetoil	ı	ı	ı	ı	ı	ı	ı	0.07		1 6	' h	ı	1	ı		ı	ı	ı	
prickly sowthistle	ı	1 1	ı	1	ı	1	1	1	ı	0.04	0.00	1	1	ı	1	ı	ı	ı	
D.	- 00 076	0.07	ı	ı	ı	1 70	ı	ı	ı		ı	· 60	1	ı		ı	ı	ı	
	740.00		ı	'	'	1.40				'	'	70.0	'	'			1	ı	
purple prairie ciover	ı	ı	ı	' (ı	ı	ı	ı	ı	1	ı	ı	- 0	٠ ٥	1 00	ı	ı	ı	
queen annes race red clover	700		. 11	4.43 0.40	1 30	1		1 25 L	7 13	- 89 0	71 0	- 60	0.97	20:0	0.00	1	× ×	ν α	2
rough among	0.00	ı	7.77	C#.0	1.90	ı	1	1.00	01.1	0.00	0.10	9.5	0.15	0.00	0.0	ı		0.00	1.0
Fough avens	ı		ı	' 60	' 0	ı	ı	ı	ı	· 66 0	' -	ı		ı		ı	' 2	ר ה ה	
shephetus purse showetally objektood	ı	ı	I	0.07	0.03	1	1	1	ı	0.43	0.41	1	1	ı	_ - π	1	70.0	0.00	
SIOUSIAIN CHICKWEEU	' 6	' 6	- 00	- 6	٠ ،	ָ הַ	1 2	- 6	י א		'	, <u>,</u>	1 1	' 6	0.10	י אַ	' 0	1 '	
smartweed	0.03	0.29	1.00	0.02	0.03	0.33	0.73	4.57	0.95	ı	1	0.04	0.07	0.02	0.11	07.0	0.00	0.17	0.0
velvetleaf	1		0.01	1	1	1					1	1	1				1	ı	
venice mallow	ı	ı	1 0	1 6	1 1	' 1	ı	ı	1 1	1 (' 6	1 7	' '	' ì	' 0	ı	' 6	ı	(
white clover	ı	1 1	4.98	0.04	0.87	0.07	ı	ı	0.0	4.50	4.03	2.81	0.01	0.75	0.00	ı	0.03	ı	0.7
white sweet clover	ı	0.05	ı	1	ı	1	1	ı	ı	1	1	ı	1	ı	ı	ı	ı	ı	
whorled milkweed	ı	ı	ı	ı	ı	ı	ı	ı	ı	1	ı	I	1	ı		ı	ı	ı	
wild bergamot	ı	ı	ı	1	ı	ı	ı	ı	ı	1	1 1	ı	1	1	ı	ı	' 6	' ;	
wild mustard	1	١	١	'	'	· [١	۱	'	'	0.07	'	'	'	1	1	0.31	0.11	

