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Site 4032[B]: Koshkonong Creek, Dane County, Township 5N, Range 12E, Section 1. 1960-08-18

[s.l.]: [s.n.], 1960-08-18

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STAND HISTORY DATA FORM

Stand No. 4032

Name:

Koshkonong
Creek

T: 5N R: 12E Sec. 1 SE Locality

NE of Albion

County: Dane

Observers:

Swan

Date:

18 August 1960

Size of stand:

22 A.

Name(s) of person(s) questioned:

(State whether owner or not) None

1. Burned in the last 5 years No

Burned in last 10 years

Burned more than 10 years ago

Information on severity of the fire:

2. Grazing within the last 5 years No

Grazing within the last 10 years

Grazing more than 10 years ago

Information on grazing intensity

3. Cutting

done in the northeast corner
done recently, within last 2 years.

Selective ✓

Tree species selected

For lumber ✓

Q. alba ?

For fence posts

For fire wood

Clear

General comments on condition of stand:

most of the stand was in very good
condition. Signs posted next to the highway
offered the timber for sale.
Standing water was present.
See map over.

Locality: T-24 Sec. 10 E. 10 N.

Name: C. C. C.

Stand No. 1032

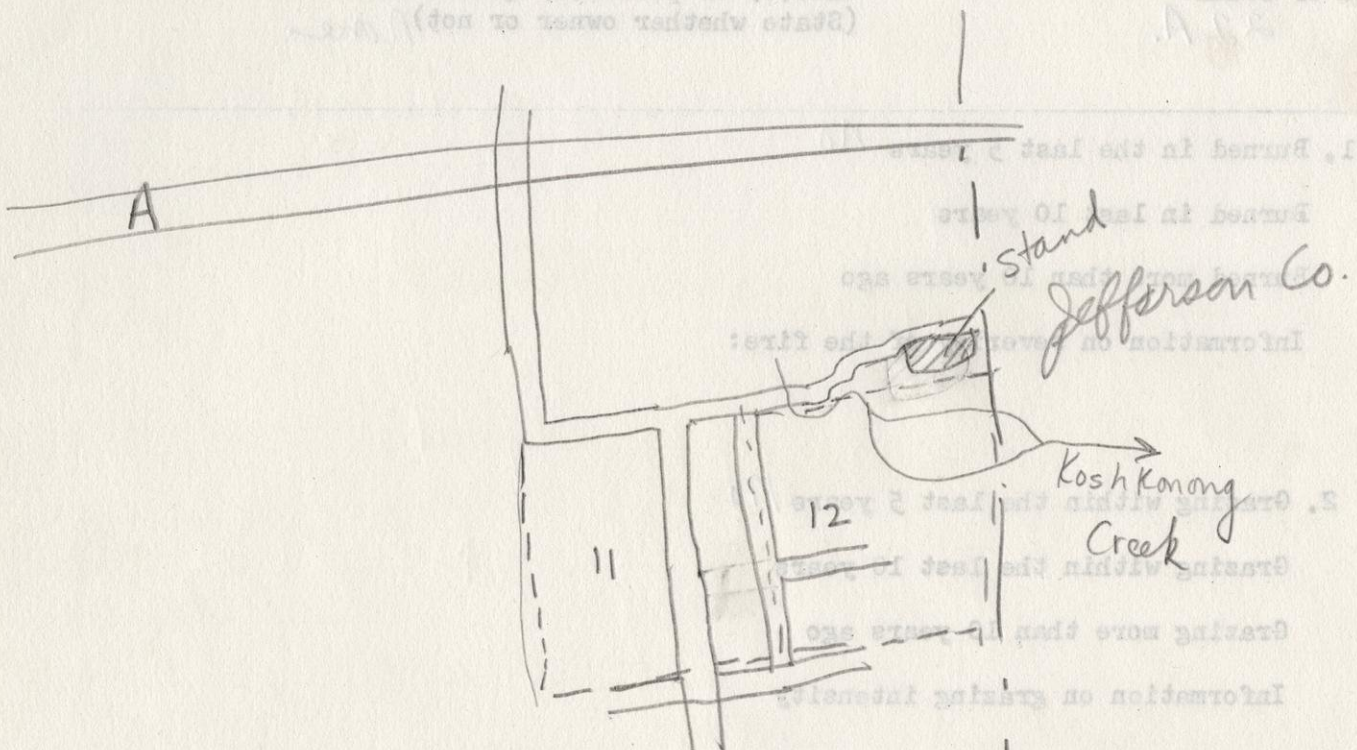
Date: 10/10/60

Observer: J. W. J.

County: Deane

Name(s) of person(s) questioned:
(State whether owner or not)

Size of stand:



Three species selected

Selective

Stand Enlarged

farm

farm

blowdowns

cut portion
pasture corn field

corn field

O = standing water
--- = sampling lines

Koshkonong Creek

Tilia amer.

Pts.	Trees	Dom.
1	2	57
1	3	64
1	1	48
1	2	28
1	1	20
1	1	16
1	1	20
1	1	150
1	1	16
1	1	31
1	1	42
1	1	46
1	2	13
1	1	82
1	3	14
1	3	90
1	2	21
1	1	28
1	1	45
1	2	21
1	3	56
1	4	21
1	4	23
1	3	34
1	3	77
1	3	30
1	3	37
1	1	3636
1	2	17
1	1	18
1	2	67
1	1	67
1	2	30
1	2	84
1	1	76
1	1	84
1	1	128
1	1	27
33	63	

Carya ovata

Pts.	Trees	Dom.
1	1	270
1	1	37
1	1	199
1	1	115
1	1	56
1	1	74
1	2	168
1	1	168
1	1	139
1	1	475
1	2	120
1	2	119
1	2	119
1	2	220
1	1	56
1	1	34
17	23	99
		44
		84
		45
		35
		27
		13
		2716

Ulmus rubra

Pts.	Trees	Dom.
1	3	38
1	2	132
1	2	25
1	7	12
3	7	188
		13
		74
		482

Frax. penn.

Pts.	Trees	Dom.
1	1	13
1	2	83
1	1	264
1	1	182
1	1	305
1	2	105
1	1	194
8	10	120
		182
		26
		1474

Ulmus amer.

Pts.	Trees	Dom.
1	1	150
1	2	21
1	1	38
1	1	35
1	1	37
1	1	163
1	2	13
1	3	38
1	3	64
1	2	103
1	1	16
1	2	20
1	3	46
1	3	76
1	1	21
1	2	83
1	2	43
1	2	347
1	2	37
1	3	200
1	2	43
1	2	720
1	2	100
1	2	90

Q. macrocarpa

Pts.	Trees	Dom.
1	1	50

Q. borealis

Pts.	Trees	Dom.
1	1	239
1	1	210
1	1	383
1	1	385
4	5	322
		1539

Q. alba

Pts.	Trees	Dom.
1	2	56
1	1	192
1	1	235
1	1	211
1	1	204
1	2	162
5	7	16
		1076

Prunus serot.

Pts.	Trees	Dom.
1	2	135
1	1	16
1	1	16
1	1	180
1	1	36
5	6	85
		468

Q. velutina

Pts.	Trees	Dom.
1	3	440
1	3	210
		171
		821

Koshkonong Creek
Dane Co.F.R. Swan Jr.
18 August 1960

TSN, R12E, Sec. 1 SE

Rel. Rel. Rel.

Stand No. 4032

Tree

:No. :No. : :No. Pts.:No. :F.%:D.% :Saps:
:Pts.:Tr. : Dom. : Sap. :Sap.:Sap.:Sap.:acre:: F.%: D.% : Dom.% : : : :Trees: :
: Tr. : Tr. : Trees : I.I. : C.I. :acre : :

Acerrubrum

A. saccharum

Carya cord.

C. ovata

Cornus alba

Fagus grand.

Fraxinus amer.

F. lanceolata

F. pennsylvani

Juglans cinere

J. nigra

Ostrya virgin.

Populus grand.

P. tremuloides

Prunus serotin

Quercus alba

Q. ellipsoidalis

Q. macrocarpa

Q. rubra

Q. velutina

Tilia american

Ulmus american

U. rubra

Ave. Dist.
Btw'n TreesAve. BA
(TOTAL
PA : 80)No. Trees
Per acreDom. per
acre

17 23 2716

19.7 14.4 16.5 48.6 291.6

8 10 1474

8.3 6.3 9.0 23.6 118.0

5 6 468

5.2 3.8 2.8 11.8 11.8

5 7 1076

5.2 4.4 6.5 16.1 96.6

1 1 50

1.0 0.6 0.3 1.9 9.5

4 5 1539

4.2 3.1 9.3 16.6 116.2

1 3 821

1.0 1.9 5.0 7.9 7.9

33 63 3636

34.4 39.4 22.1 95.9 671.3

19 35 4207

19.8 21.9 25.5 67.2 403.2

3 7 482

3.1 4.4 2.9 10.4 83.2

96 160 16,469

99.9 100.2 99.9 300.0 1809.3

Stand No. 4032

Plant Ecology Laboratory
University of Wisconsin

Name: Koshkonong Creek LIANA DATA FORM

T: 5N R: 12E sec. 1SE No. of points:

Date:

Observers: Swan

40

18 August 1960

Circumferences						
(1) Tree sp.	(2) B.A.	(3) Liana sp. Indicate if new this yr.	(4) Diam. at 1 ft.	(5) Present on 1/4, 2/4, 3/4 or 4/4 of trunk	(6) Direction at base	(7) Slope
1. <i>Tilia</i>	22 ✓	16.5				
<i>Tilia</i>	28 ✓	18.8				
<i>Frax penn.</i>	13 ✓	12.7				
<i>Carya ovata</i>	270 ✓	58				
2. <i>Q. borcalis</i>	239 ✓	55				
<i>Tilia</i>	30 ✓	19.5				
<i>Tilia</i>	26 ✓	18				
<i>Tilia</i>	20 ✓	16				
3. <i>Prunus acerot.</i>	135 ✓	41				
<i>Q. alba</i>	56 ✓	26.5				
<i>Prunus acerot.</i>	16 ✓	14.3				
<i>Q. alba</i>	192 ✓	49				
4. <i>Tilia</i>	16 ✓	14.3				
<i>Q. borcalis</i>	210 ✓	51.5				
<i>Prunus acerot.</i>	16 ✓	14.0				
<i>Q. alba</i>	235 ✓	54				

Stand No. 4032

Plant Ecology Laboratory
University of Wisconsin

Name:

LIANA DATA FORM

T: R: sec.

No. of points:

Date:

Observers: Swan

18 Aug. 1960

(1) Tree sp.	(2) B.A.	(3) Liana sp. Indicate if new this yr.	(4) Diam. at 1 ft.	(5) Present on 1/4, 2/4, 3/4 or 4/4 of trunk	(6) Direction at base	(7) Slope
5. <i>Q. borealis</i>	383 ✓	69.5				
<i>Q. borealis</i>	385 ✓	69.5				
<i>Tilia</i>	131 ✓	12.7				
<i>Tilia</i>	411 ✓	22.5				
6. <i>Ulmus amer.</i>	21 ✓	16.3				
<i>Tilia</i>	115 ✓	38				
<i>Carya ovata</i>	37 ✓	21.5				
<i>Q. alba</i>	211 ✓	51.5				
7. <i>Carya ovata</i>	199 ✓	50				
<i>Ulmus amer.</i>	35 ✓	21				
<i>Ulmus amer.</i>	163 ✓	45				
<i>Prunus serot.</i>	180 ✓	47.5				
8. <i>Ulmus rubra</i>	38 ✓	21.7				
<i>Ulmus rubra</i>	132 ✓	41				
<i>Tilia</i>	14 ✓	13.3				
<i>Ulmus rubra</i>	25 ✓	17.7				

Stand No. 4032

Plant Ecology Laboratory
University of Wisconsin

Name:

LIANA DATA FORM

T: R: sec.

No. of points:

Date:

Observers: Iwan

18 August 1960

(1) Tree sp.	(2) B.A.	(3) Liana sp. Indicate if new this yr.	(4) Diam. at 1 ft.	(5) Present on 1/4, 2/4, 3/4 or 4/4 of trunk	(6) Direction at base	(7) Slope
9. <i>Ulmus rubra</i>	12 ✓	12.3				
<i>Ulmus rubra</i>	188 ✓	49				
Q. <i>macrocarpa</i>	50 ✓	25				
<i>Tilia</i>	13 ✓	12.7				
10. <i>Ulmus amer.</i>	13 ✓	12.7				
<i>Tilia</i>	15 ✓	13.7				
<i>Ulmus rubra</i>	13 ✓	12.7				
<i>Ulmus rubra</i>	74 ✓	31 P ✓			SSW	flat
11. <i>Tilia</i>	18 ✓	15				
<i>Frax. penn.</i>	83 ✓	32.5				
<i>Frax. penn.</i>	264 ✓	58		<i>Ulmus amer.</i> 26, 2P,	25, 1/4, 7'	3' NNE NNW
<i>Ulmus amer.</i>	103 ✓	36				
12. <i>Ulmus amer.</i>	16 ✓	14				
<i>Ulmus amer.</i>	16 ✓	14				
<i>Ulmus amer.</i>	21 ✓	16.3				
<i>Tilia</i>	45 ✓	24				

Stand No. 4032

Plant Ecology Laboratory
University of Wisconsin

Name:

LIANA DATA FORM

T: R: sec.

No. of points:

Date:

Observers:

Luan

18 August 1960

(1) Tree sp.	(2) B.A.	(3) Liana sp. Indicate if new this yr.	(4) Diam. at 1 ft.	(5) Present on 1/4, 2/4, 3/4 or 4/4 of trunk	(6) Direction at base	(7) Slope
13. Frax. penn.	182✓	48				
Ulmus amer.	83✓	32.5 P✓	.25✓	1/4 ✓ 3'	SE✓	Flat
Carya ovata	115✓	38 P✓	.25✓	1/4 ✓ 4'	NE✓	"
Ulmus amer.	43✓	23 P✓			NNE✓	"
14. Ulmus amer.	37✓	21.5 P✓	.25✓	1/4 ✓ 5'	SE✓	"
Ulmus amer.	43✓	23				
Tilia	152✓	44				
Ulmus amer.	180✓	35.5				
15. Ulmus amer.	90✓	34 P✓	.25✓	1/4 ✓ 4'	SE✓	"
Tilia	66✓	28.8				
Ulmus amer.	150✓	43.5				
Ulmus amer.	38✓	21.8				
16. Tilia	66✓	28.8				
Ulmus amer.	37✓	21.5				
Tilia	242✓	55				
Carya ovata	56✓	26.5				

Stand No. 4032

Plant Ecology Laboratory
University of Wisconsin

Name:

LIANA DATA FORM

T: R: sec.

No. of points:

Date:

Observers: Swan

18 August 1960

(1) Tree sp.	(2) B.A.	(3) Liana sp. Indicate if new this yr.	(4) Diam. at 1 ft.	(5) Present on 1/4, 2/4, 3/4 or 4/4 of trunk	(6) Direction at base	(7) Slope
17. <i>Tilia</i>	40 ✓	22.5 ✓ ✓			ENE ✓	flat
<i>Ulmus amer.</i>	38 ✓	21.8				
<i>Ulmus amer.</i>	64 ✓	28.5 ✓	.25 ✓	1/4 ✓ 3'	SE ✓	
<i>Frax. penn.</i>	305 ✓	12 ✓	.25 ✓	1/4 ✓ 8'	SE ✓	"
18. <i>Tilia</i>	110 ✓	37				
<i>Tilia</i>	280 ✓	59				
<i>Frax. penn.</i>	105 ✓	36 ✓	.25 ✓	1/4 ✓ 2 1/2'	ESE ✓	
<i>Tilia</i>	90 ✓	34				
19. <i>Ulmus amer.</i>	1200 ✓	121				
<i>Frax. penn.</i>	194 ✓	49.5				
<i>Carya ovata</i>	74 ✓	31				
<i>Ulmus amer.</i>	20 ✓	16				
20. <i>Carya ovata</i>	168 ✓	46				
<i>Tilia</i>	62 ✓	28				
<i>Tilia</i>	15 ✓	13.7				
<i>Tilia</i>	200 ✓	50				

no adventitious roots yet

Stand No. 4032

Plant Ecology Laboratory
University of Wisconsin

Name:

LIANA DATA FORM

T: R: sec.

No. of points:

Date:

Observers:

Swan

18 August 1960

(1) Tree sp.	(2) B.A.	(3) Liana sp. Indicate if new this yr.	(4) Diam. at 1 ft.	(5) Present on 1/4, 2/4, 3/4 or 4/4 of trunk	(6) Direction at base	(7) Slope
21 22. <i>Carya ovata</i>	168 ✓	46			ENE	NE
<i>Carya ovata</i>	139 ✓	42				
<i>Tilia</i>	181 ✓	15	25	14	SE	
<i>Tilia</i>	211 ✓	16.3	25	14	SE	
22. <i>Frax. penn.</i>	120 ✓	39				
22. <i>Tilia</i>	166 ✓	45.7				
<i>Frax. penn.</i>	182 ✓	48	25	14	ESE	
<i>Carya ovata</i>	475 ✓	77.4				
23. <i>Tilia</i>	17 ✓	14.5				
23. <i>Ulmus amer.</i>	46 ✓	24				
<i>Ulmus amer.</i>	76 ✓	31				
<i>Ulmus amer.</i>	347 ✓	66		<i>Frax. penn.</i> 480	42 hrs	2 SE SW NW
24. <i>Ulmus amer.</i>	200 ✓	50				
24. <i>Ulmus amer.</i>	720 ✓	95			<i>Rhus</i> , 5 - SW	30'
<i>Tilia</i>	18 ✓	15				
<i>Tilia</i>	67 ✓	29				

Stand No. 4032

Plant Ecology Laboratory
University of Wisconsin

Name:

LIANA DATA FORM

T: R: sec.

No. of points:

Date:

Observers: Swan

18 August 1960

	(1) Tree sp.	(2) B.A.	(3) Liana sp. Indicate if new this yr.	(4) Diam. at 1 ft.	(5) Present on 1/4, 2/4, 3/4 or 4/4 of trunk	(6) Direction at base	(7) Slope
25. 26.	Tilia	67✓	29				
	Carya ovata	120✓	39				
	Tilia	30✓	19.5				
26. 27.	Tilia	84✓	33				
	Tilia	76✓	31				
	Tilia	84✓	33				
	Tilia	128✓	40				
27. 28.	Tilia	27✓	18.5				
	Tilia	57✓	27				
	Tilia	64✓	28.5				
	Tilia	48✓	24.5				
	Tilia	28✓	18.8				
28.	Tilia	20✓	16				
	Tilia	150✓	43.5				
	Q. alba	204✓	51				
	Tilia	16✓	14.3				

Stand No. 4032

Plant Ecology Laboratory
University of Wisconsin

Name:

LIANA DATA FORM

T: R: sec.

No. of points:

Date:

Observers:

Swan

18 August 1960

	(1) Tree sp.	(2) B.A.	(3) Liana sp. Indicate if new this yr.	(4) Diam. at 1 ft.	(5) Present on 1/4, 2/4, 3/4 or 4/4 of trunk	(6) Direction at base	(7) Slope
29.	Tilia	31✓	19.7				
	Frax. penn.	26✓	18				
	Tilia	42✓	23				
	Tilia	46✓	24				
30.	Tilia	13✓	12.7				
	Prunus serot.	36✓	21.3				
	Tilia	82✓	32				
	Tilia	14✓	13.3				
31.	Tilia	90✓	34				
	Carya ovata	119✓	39				
	Tilia	21✓	16.5				
	Tilia	28✓	18.7				
32.	Carya ovata	119✓	39				
	Carya ovata	220✓	53				
	Tilia	45✓	23.8				
	Ulmus amer.	38✓	21.8				

Stand No. 4032

Plant Ecology Laboratory
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Name:

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T: R: sec.

No. of points:

Date:

Observers: Swan

18 August 1960

(1) Tree sp.	(2) B.A.	(3) Liana sp. Indicate if new this yr.	(4) Diam. at 1 ft.	(5) Present on 1/4, 2/4, 3/4 or 4/4 of trunk	(6) Direction at base	(7) Slope
33. <i>Tilia</i>	21 ✓	16.3				
• <i>Tilia</i>	56 ✓	26.5				
<i>Carya ovata</i>	56 ✓	26.5				
<i>Carya ovata</i>	34 ✓	20.5				
34. <i>Carya ovata</i>	99 ✓	35.5				
<i>Ulmus amer.</i>	53 ✓	26				
<i>Q. borealis</i>	322 ✓	64				
{ <i>Tilia</i>	14 dead	13.3				
{ <i>Carya ovata</i>	44 ✓					
35. <i>Carya ovata</i>	84 ✓	33	P, 25	1/4 7'	on <i>Ulmus</i> sapling	
<i>Ulmus amer.</i>	26 ✓	18 P ✓			SW	
<i>Carya ovata</i>	45 ✓	24				
<i>Tilia</i>	21 ✓	16.3				
36. <i>Q. alba</i>	162 ✓	45				
<i>Tilia</i>	23 ✓	17				
<i>Tilia</i>	34 ✓	20.6				
<i>Q. alba</i>	16 ✓	14.3				

Stand No. 4032

Plant Ecology Laboratory
University of Wisconsin

Name:

LIANA DATA FORM

T: R: sec.

No. of points:

Date:

Observers:

Swan

18 August 1960

(1) Tree sp.	(2) B.A.	(3) Liana sp. Indicate if new this yr.	(4) Diam. at 1 ft.	(5) Present on 1/4, 2/4, 3/4 or 4/4 of trunk	(6) Direction at base	(7) Slope
37. <i>Carya ovata</i>	35 ✓	21				
<i>Ulmus amer.</i>	15 ✓	13.7				
<i>Carya ovata</i>	27 ✓	18.5				
<i>Ulmus amer.</i>	34 ✓	20.5				
38. <i>Ulmus amer.</i>	114 ✓	38				
<i>Tilia</i>	77 ✓	31				
<i>Ulmus amer.</i>	16 ✓	14.3				
<i>Ulmus amer.</i>	95 ✓	35				
39. <i>Prunus serot.</i>	85 ✓	33				
<i>Tilia</i>	30 ✓	19.5				
<i>Tilia</i>	37 ✓	21.5				
<i>Ulmus amer.</i>	96 ✓	35				
40. <i>Q. velut.</i>	440 ✓	74				
<i>Q. velut.</i>	210 ✓	51.5				
<i>Carya ovata</i>	13 ✓	12.7				
<i>Q. velut.</i>	171 ✓	46.3				

5030.7"
419.2'

Koshkonong Creek - 4032

Parthenocissus

CI = 1809.3

$$\% \text{ frequency of ground form} = \frac{20}{40} = 50\%$$

$$\% \text{ frequency of liana} = \frac{7}{160} = 4.38\%$$

$$\frac{\text{liana}}{\text{ground form}} \text{ --- Ratio of } \% \text{ frequencies} = \frac{4.38}{50.0} = 0.088$$

$$\text{Density of ground form} = \frac{85}{40} = 2.12/\text{quadrat}$$

$$\text{Density of liana} : \frac{7}{160} = 0.0438/\text{tree}$$

$$\text{Ratio of densities} = \frac{0.0438}{2.12} = 0.021$$

$$\text{Abundance of ground form} : \frac{85}{20} = 4.25$$

$$\text{Abundance of liana} = \frac{7}{7} = 1.0$$

$$\text{Ratio of abundances} = \frac{1}{4.25} = 0.235$$

4 new lianas occurred on 4 trees } $\begin{matrix} 2N \\ 25 \end{matrix}$

$$\text{Density} = \frac{4}{160} = 0.025$$

Size distribution

$$.25 \left\{ \begin{matrix} 1/4 & 7 & 100\% \end{matrix} \right.$$

4032 - Koshkonong Creek -

Parthenocarpus,

Trees and Lianas

$\frac{1}{7}$

$\frac{1}{7}$

Trees

$\frac{1}{4}$

New Lianas

$\frac{1}{4}$

$\frac{1}{4}$
N) 11 (2)
5 { 11 (2)

.25 | $\frac{1}{4}$ ##### (7)
2/4
3/4

$\frac{1}{4}$ | N/ (1)
5 ##### (6)

Rhus Lianas present but not sampled.

Trees sp.

Rhus ground forms

1
1
3
1
5
6
12
1
3
5
5
2
40 | 40
1.0

FREQUENCY OF LIANA GROUND FORMS*

Stand No. 4032

Name:

Koshkonong Creek

T: 5NR: 12E sec. 1SE

Locality

NE of Albion

County: Dane

Observers:

Swan

Date:

18 August 1960

Size of area sampled:

10A.

	1	2	3	4	5	6	7	8	9	10
<u>Celastrus scandens</u>	20	19	18	17	16	15	14	13	12	11
	21	22	23	24	25	26	27	28	29	30
	40	39	38	37	36	35	34	33	32	31

	1	2	3	4	5	6	7	8	9	10
<u>Parthenocissus</u>	15	20	19	18	17	16	15	14	13	12
	21	22	23	24	25	26	27	28	29	30
	40	39	38	37	36	35	34	33	32	31

	1	2	3	4	5	6	7	8	9	10
<u>Rhus radicans</u>	20	19	18	17	16	15	14	13	12	11
	21	22	23	24	25	26	27	28	29	30
	40	39	38	37	36	35	34	33	32	31

	1	2	3	4	5	6	7	8	9	10
<u>Vitis aestivalis</u>	20	19	18	17	16	15	14	13	12	11
	21	22	23	24	25	26	27	28	29	30
	40	39	38	37	36	35	34	33	32	31

	1	2	3	4	5	6	7	8	9	10
<u>Vitis riparia</u>	20	19	18	17	16	15	14	13	12	11
	21	22	23	24	25	26	27	28	29	30
	40	39	38	37	36	35	34	33	32	31

* ✓ indicates the presence of a species in a square meter quadrat.