



LIBRARIES

UNIVERSITY OF WISCONSIN-MADISON

Site 4028[B]: Koshkonong Creek 2, Jefferson County, Township 5N, Range 13E, Section 5. 1960-08-19

[s.l.]: [s.n.], 1960-08-19

<https://digital.library.wisc.edu/1711.dl/R4WOSGFFZYWHS8P>

This material may be protected by copyright law (Title 17, US Code).

For information on re-use see:

<http://digital.library.wisc.edu/1711.dl/Copyright>

The libraries provide public access to a wide range of material, including online exhibits, digitized collections, archival finding aids, our catalog, online articles, and a growing range of materials in many media.

When possible, we provide rights information in catalog records, finding aids, and other metadata that accompanies collections or items. However, it is always the user's obligation to evaluate copyright and rights issues in light of their own use.

STAND HISTORY DATA FORM

Plant Ecology Lab.
Univ. of Wisconsin

Stand No. 4028

Name:

T: 5N R: 13E Sec, 5

Locality

County: Jefferson

Observers:

Date:

Size of stand:

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

85A+

19 August 1960

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

Apparently not

Grazing within the last 10 years

Grazing more than 10 years ago

Information on grazing intensity

3. Cutting

Very little and not recently

Selective

Tree species selected

For lumber

For fence posts

For fire wood

Clear

General comments on condition of stand:

The stand is in very good condition. There were numerous large areas of standing water present at the time of sampling. see map over

Locality

Site No. 1028

Red Cedar Lake

Name:

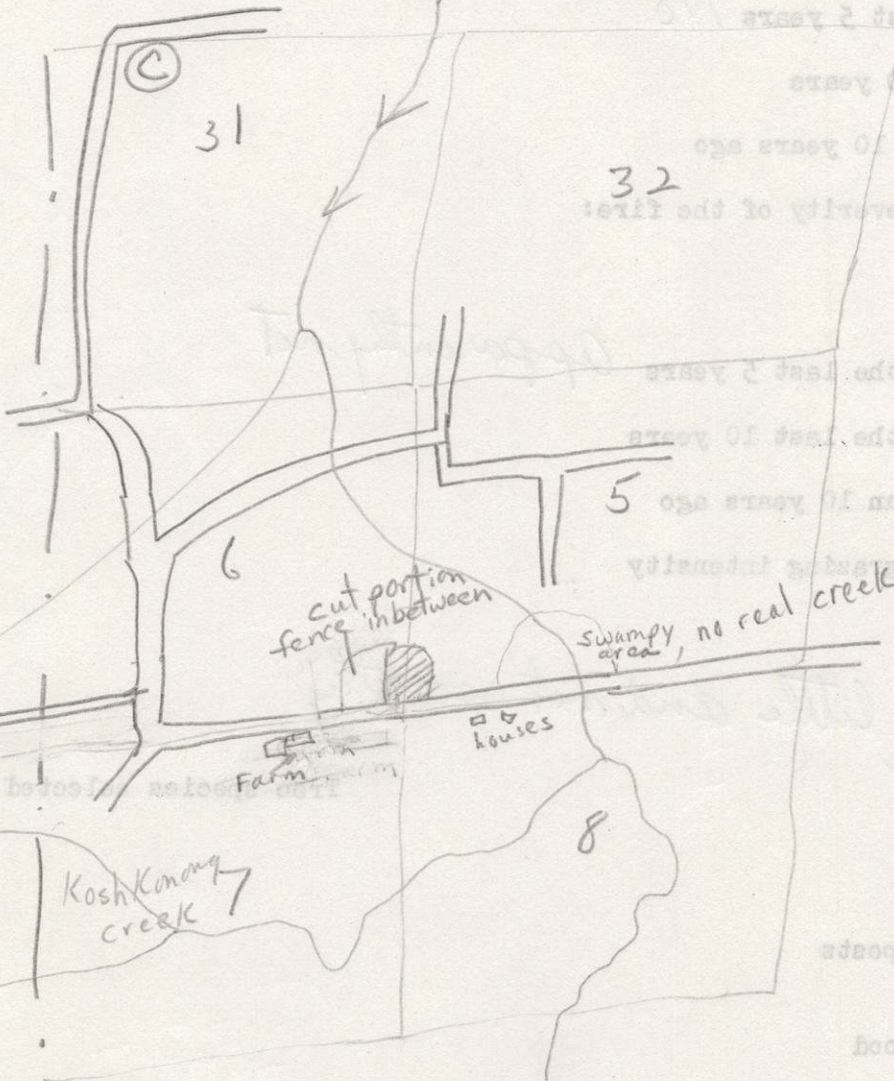
Stand No. 1028

Dane Co.

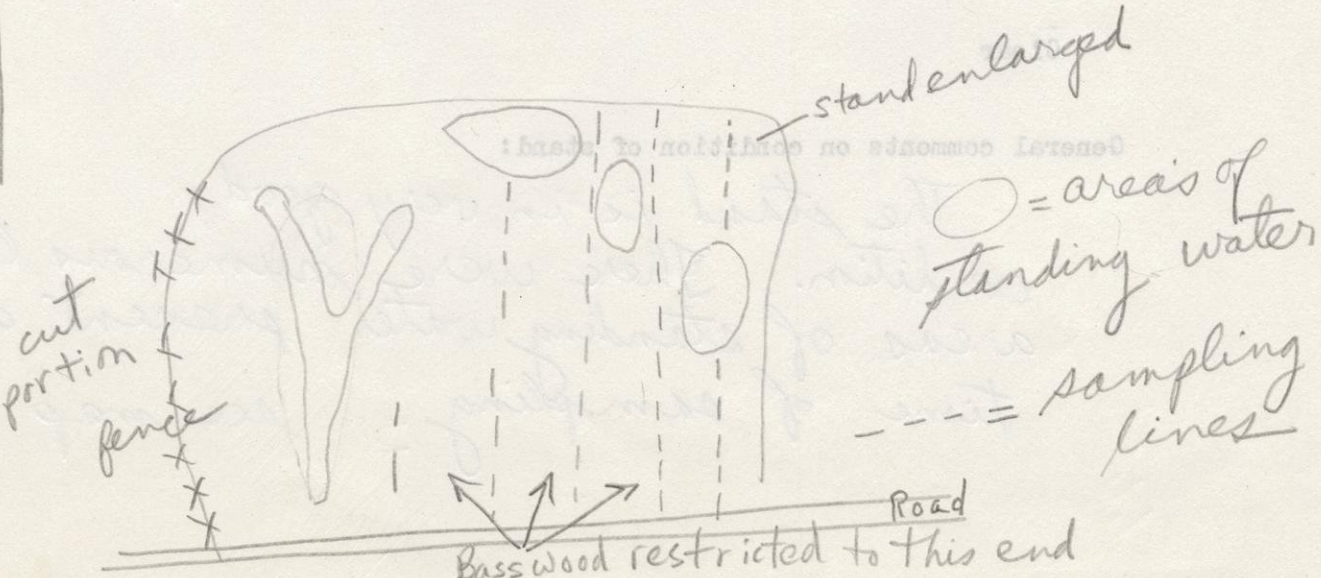
Jefferson Co.

Name(s) of person(s) doing this work
(State whether owner or not)

County:



but water does go underneath road

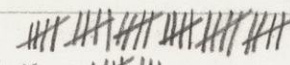
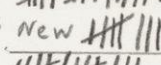


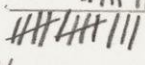

O = areas of standing water

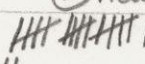
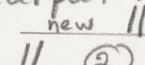
--- = sampling lines



Road
Basswood restricted to this end

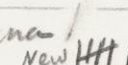

Koshkonong Creek II - Host Specificity - 4028

Fraxinus nigra:  (30) Parthenocisous
 new  (8) new

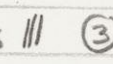
Quercus macrocarpa:  (13) Rhus
 new  (2) new

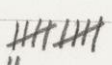

Quercus macrocarpa:  (16)
 new  (2) new

Fraxinus pennsylvanica  (8)
 new  (1) new

Ulmus americana  (6) new
 new  (0)


Prunus serotina (1)

Carya cordiformis  (3)

Ulmus rubra  (10)
 new  (3) new

Carya ovata (0)

Tilia americana (0)

Quercus velutina:  (5)

	Rel. Density	Rel. Dominance	Parth. Dens.	Rel. Dens.	Rhus Dens.	Rel. Dens.	Rel. circum.
Fraxinus nigra	62.5	46.4	30	41.1	13	81.3	55.6
Quercus macrocarpa	10.6	25.6	16	21.9	2	12.5	16.9
Fraxinus pennsylv.	8.1	6.8	8	11.0	1	6.2	7.8
Ulmus amer.	7.5	10.7	0	0	0		8.3
Prunus serot.	3.7	3.3	1	1.4	0		3.8
Carya cordif.	2.5	1.3	3	4.1	0		1.9
Ulmus rubra	1.9	3.4	10	13.7	0		2.6
Carya ovata	1.3	0.9	0	0	0		1.1
Tilia amer.	1.3	0.9	0	0	0		1.1
Q. velutina	0.6	0.7	5	6.8	0		0.7
			73	100.0	16	100.0	99.8

Koshkonong Creek II: 4028: Host specificity of lianas
occupying more than the lower 1/4 of the host tree.
= 5

Fraxinus nigra: Parth. III ④

Rhus: II ②

Quercus macrocarpa: Parth. III 1 ⑥

Rhus: II ②

Ulmus americana: Parth. 0

Rhus: 0

Fraxinus pennsylv. Parth. 0

Rhus: ①

Prunus serotina: Parth. 0

Rhus: 0

Ulmus rubra: Parth. III ③

Rhus: 0

Carya ovata: Parth. 0

Rhus: 0

Tilia americana Parth.: 0

Rhus: 0

Q. velutina: Parth.: ①

Rhus: 0

Carya cordiformis. Parth.: ①

Rhus: 0

Parthenocissus: Koshkonong Creek II: 4028
 Liana stem classes present at 4 1/2 feet on each tree
 species excluding lianas reaching only the lower 1/4
 of the host tree.

4 ck.	Frax. nigra	.25	(3) ✓	1.0
✓	Q. macrocarpa	.25	(4) ✓	1.0
6 ck.	Ulmus amer.	.5	(2) ✓	1.0
✓	Frax. pensyl.	.25		1.0
0 ck.	Prunus serot.	.25		1.0
✓	Ulmus rubra	.25	✓	1.0
3 ck.	Carya ovata	.25	(2) ✓	1.0
✓	Tilia amer.	.25		1.0
✓	Q. velutina	.25		1.0 ✓
1 ck.	Carya cordiformis	.5	✓	

Koshkonong Creek II

Stand no. 4028

T 5N, R 13E, sec. 5 SW: SE

F. R. Swan Jr. 19 August 1960

Rel.

Rel.

Rel.

:No. :No. : :No. Pts.:No. :P.% :D.% :Saps:

: F.% : D.% : Dom.% : : : :Trees: :
: Tr. : Tr. : Trees : I.V. : C.I. :acre : :

Tree

:Pts.:Tr. : Dom. : Sap. : Sap.:Sap.:Sap.:acre:

Acerrubrum

A. saccharum

Carya cord.

C. ovata

Cornus alba

Fagus grand.

Fraxinus amer.

F. lanceolata

nigra

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

Tree	No.	No.	No. Pts.	No.	P.%	D.%	Saps	F.%	D.%	Dom.%	Trees	I.V.	C.I.	acre
Acerrubrum														
A. saccharum														
Carya cord.	4	4	165	88.0	1.9			4.7	2.5	1.3	8.5	59.5		
C. ovata	2	2	118	52.5	1.2			2.4	1.3	0.9	4.6	27.6		
Cornus alba														
Fagus grand.														
Fraxinus amer.														
F. lanceolata	37	100	5976	2567.2	56.4			43.5	62.5	46.4	152.4	914.4		
F. pennsylvani	11	13	879	379.9	8.3			12.9	8.1	6.8	27.8	139.0		
Juglans cinere														
J. nigra														
Ostrya virgin.														
Populus grand.														
P. tremuloides														
Prunus serotin	5	6	424	178.0	3.9			5.9	3.7	3.3	12.9	12.9		
Quercus alba														
Q. ellipsoidalis														
Q. macrocarpa	11	17	3298	711.9	15.4			12.9	10.6	25.6	49.1	245.5		
Q. rubra														
Q. velutina	1	1	92	34.0	0.8			1.2	0.6	0.7	2.5	2.5		
Tilia american	2	2	111	52.2	1.1			2.4	1.3	0.9	4.6	32.2		
Ulmus american	9	12	1377	388.0	8.5			10.6	7.5	10.7	28.8	172.8		
U. rubra	3	3	435	103.0	2.3			3.5	1.9	3.4	8.8	70.4		
	85	160	12,875	4554.7	100.0			100.0	100.0	100.0	300.0	1676.8		

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

35.0
- 17.8
17.2

50.0
- 31.0
19.0

18.8
13.8
5.0

21.5
19.3
2.2

Tree	No.	Tr.	Loc.	Sp.	No.	Sp.	No.	Sp.	No.	Sp.	No.	Sp.	No.	Sp.	No.	Sp.	No.	Sp.	No.	Sp.	No.	Sp.	No.	Sp.		
<i>U. alba</i>																										
<i>Ulmus americana</i>																										
<i>U. americana</i>																										
<i>U. americana</i>																										
<i>U. americana</i>																										
<i>U. americana</i>																										
<i>U. americana</i>																										
<i>U. americana</i>																										
<i>U. americana</i>																										
<i>U. americana</i>																										
<i>U. americana</i>																										
<i>U. americana</i>																										
<i>U. americana</i>																										
<i>U. americana</i>																										
<i>U. americana</i>																										

Ave. Disp.
 No. Trees
 Per acre
 Dist. bar
 Ave. DI
 (Total)
 No. 80

Stand No. 4028

Plant Ecology Laboratory
University of Wisconsin

Name: Koshkonong Creek II

LIANA DATA FORM

T: 5N R: 13E sec. 5 SW: SE

No. of points:

Date:

Observers: Swan

40

19 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
1. <i>Q. macrocarpa</i> <i>bicolor</i>	23 ✓	P ✓	.25 ✓	1/4 ✓ 11'	W NW ✓	flat
<i>Frax. nigra</i>	13 ✓	P ✓ ✓			NNE ✓	
<i>Q. bicolor macrocarpa</i>	94 ✓	2P ✓	.25 ✓	1/4 ✓ 10'	2SE ✓	
<i>Q. bicolor macrocarpa</i>	76 ✓	2P ✓	.25 ✓	1/4 ✓	SW ✓	
		2P ✓ ✓			SW ✓ SE ✓	
2. <i>Frax. nigra</i>	17 ✓	2P ✓	.25 ✓	1/4 ✓	NE ✓ SE ✓	
<i>Frax. nigra</i>	13 ✓	P ✓	.25 ✓	1/4 ✓	SE ✓	
		P ✓	.25 ✓	2/4 ✓ 30'	SE ✓	
<i>Prunus serot.</i>	67 ✓	P ✓	.25 ✓	1/4 ✓	SE ✓	
<i>Carya cordif.</i>	42 ✓	P ✓	.5 ✓	4/4 ✓	NW ✓	
		2P ✓	.25 ✓	1/4 ✓	NW ✓ NE ✓	
3. <i>Q. macrocarpa</i>	205 ✓	P ✓	.5 ✓	4/4 ✓	SE ✓	
		2P ✓	.25 ✓	3/4 ✓	ENE ✓ NW ✓	
<i>Q. velut.</i>	92 ✓	4P ✓	.25 ✓	1/4 ✓	NW ✓ NE ✓	
		P ✓	1.0 ✓	4/4 ✓	SE ✓	
<i>Frax. nigra</i>	32 ✓	P ✓	.25 ✓	2/4 ✓	SW ✓	

#

2

Stand No. 4028

Plant Ecology Laboratory
University of Wisconsin

Name:

LIANA DATA FORM

T: R: sec.

No. of points:

Date:

Observers:

Swan

19 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
3, #3 Cont.		P ✓	.5 ✓	4/4 ✓	NE ✓	
		P ✓ ✓			NE ✓	
Ulmus rubra	198 ✓	P ✓	.5 ✓	4/4 ✓	SE ✓	
		5P ✓	.25 ✓	1/4 ✓	2NE 3NW ✓	
		2P ✓ ✓			2NW ✓	
4. S. macro.	205 ✓	P ✓	.5 ✓	4/4 ✓	SE ✓	
		2P ✓	.25 ✓	3/4 ✓	ENE NW ✓	
Ulmus rubra	76 dead	2P ✓	.25 ✓	1/4 ✓	2NE ✓	
		P ✓	.5 ✓	4/4 ✓	NE ✓	
Ulmus rubra	198 ✓					
Prunus serot.	49 ✓					
Frax. penn.	25 ✓	3P ✓	.25 ✓	1/4 ✓	2SE NE ✓	
5. Frax. nigra	42 ✓					
sp.? dead	22					
Carya ovata	27 ✓					
Frax. nigra	115 ✓					

Stand No. 4028

Plant Ecology Laboratory
University of Wisconsin

Name:

LIANA DATA FORM

T: R: sec.

No. of points:

Date:

Observers:

Swan

19 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. #4 Frax. nigra	95✓	/				
6. Ulmus amer.	158✓	3P ✓			2NE SE✓	
Ulmus amer.	111✓	/				
Frax. nigra	dead 15	/				
Frax. nigra	28✓	/				
Frax. nigra	62✓	/				
7. Q. macro.	19✓	P ✓	.25✓	1/4✓	WNW✓	
Ulmus amer.	128✓	P ✓			SE✓	
Q. macro.	238✓	P ✓			SE✓	
		P ✓	.25✓	1/4✓	NE✓	
Q. macro.	182✓	/				
8. Ulmus amer.	468✓	P ✓			SSW✓	
Ulmus amer.	14✓	/				
Frax. penn.	63✓	Rhus ✓	.5✓	2/4✓	NW✓	
		2P ✓	.25✓	1/4✓	NW NE	
Frax. nigra	24✓	/				

Stand No. 4028

Plant Ecology Laboratory
University of Wisconsin

Name: LIANA DATA FORM

T: R: sec.

No. of points:

Date: 19 August 1960

Observers: Swan 70% canopy

(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. Frax. nigra	45✓	/				
Frax. penn.	35✓	/				
Frax. penn.	57✓	P✓	.25✓	1/4✓ 7'	SW✓	
Frax. nigra	65✓	P✓ ✓			SE✓ loose	
10. Frax. nigra	65✓	/				
Frax. nigra	84✓	P✓	.25✓	1/4✓ 14'	SW✓ loose	
Frax. nigra	109.4	P✓	.25✓	1/4✓	SW NW	ZNE
Ulmus amer.	18✓	/				
11. Frax. nigra	139✓	2P✓	.25✓	1/4✓	SE NW✓	
Frax. nigra	112✓	/				
Ulmus amer.	18✓	/				
Carya cordif.	45✓	/				
12. Frax. nigra	72✓	P✓	.25✓	1/4✓ 12'	NE loose✓	
Q. macro.	358✓	/				
Frax. nigra	35✓	/				
Frax. nigra	18✓	/				

Stand No. 4028

Plant Ecology Laboratory
University of Wisconsin

Name: LIANA DATA FORM

T: R: sec. No. of points:

Date: 19 August 1960

Observers: Swan

(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. <i>Ulmus rubra</i>	39 ✓	P ✓	.25 ✓	2/4 ✓ 28'	NW ✓	
<i>Frax. nigra</i>	102 ✓	2P ✓	.25 ✓	1/4 ✓	2SE ✓	
<i>Frax. nigra</i>	54 ✓	/				
<i>Ulmus amer.</i>	24 ✓	/				
14. <i>Frax. nigra</i>	15 ✓	P ✓	.25 ✓	1/4 ✓ 6'	NW ✓	
<i>Frax. nigra</i>	16 ✓	/				
<i>Ulmus amer.</i>	315 ✓	P ✓			NNE ✓	
<i>Frax. penn.</i>	125 ✓	P ✓	.25 ✓	1/4 ✓ 8'	SW ✓	
15. <i>Frax. nigra</i>	59 ✓	P ✓	.25 ✓	1/4 ✓ 6'	SE ✓	
<i>Frax. nigra</i>	38 ✓	/				
<i>Frax. nigra</i>	23 ✓	/				
<i>Brunus serot.</i>	59 ✓	/				
16. <i>Brunus serot.</i>	59 ✓	/				
<i>Frax. nigra</i>	54 ✓	/				
<i>Ulmus amer.</i>	60 ✓	/				
<i>Frax. nigra</i>	42 ✓	P ✓			NE ✓	

Stand No. 4028

Plant Ecology Laboratory
University of Wisconsin

Name:

LIANA DATA FORM

T: R: sec.

No. of points:

Date:

Observers:

Swan

19 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.) SP. ? dead.	40 ✓	P ✓			SW ✓	
Frax. nigra	41 ✓	/				
Frax. nigra	49 ✓	/				
Frax. nigra	98 ✓	2P ✓	.25 ✓	1/4 ✓	13' 2NW ✓	flat
Frax. nigra	87 ✓	P ✓	.25 ✓	1/4 ✓	10' west ✓	
18. Frax. nigra	20 ✓	P ✓	.25 ✓	1/4 ✓	7' NE ✓	
Frax. nigra	17 ✓	/				
Tilia	38 ✓	/				
Frax. nigra	27 ✓	/				
19. Frax. penn.	122 ✓	/				
Frax. nigra	66 ✓	P ✓			NE ✓	
Frax. nigra	70 ✓	2P ✓	2/25 ✓	2/4 ✓	SE ✓	
Frax. nigra	69 ✓	/				
20. Frax. nigra	110 ✓	/				
Frax. nigra	62 ✓	/				
Frax. nigra	40 ✓	P ✓	.25 ✓	1/4 ✓	15' NW ✓	

Stand No. 4028

Plant Ecology Laboratory
University of Wisconsin

Name:

LIANA DATA FORM

T: R: sec.

No. of points:

Date:

Observers: Swan

19 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
#4 Frax. nigra	29✓	/				
21. Frax. penn.	24✓	/				
Frax. nigra	54✓	P ✓ ✓			SE ✓	
		P ✓	.25 ✓	1/4 ✓ 6'	SW ✓	
Frax. nigra	30✓	Rhus ✓	.25 ✓	1/4 ✓ 3'	NW ✓	
Frax. penn.	30✓	/				
22. Frax. nigra	23 ✓	Rhus ✓	.25 ✓	1/4 ✓ 3'	SE ✓	dead Rhus .5
Frax. nigra	43 ✓	P ✓	.25 ✓	1/4 ✓ 9'	SE ✓	
		Rhus ✓	.25 ✓	1/4 ✓	NE ✓	
Frax. nigra	32 ✓	Rhus ✓	1.0 ✓	3/4 ✓ 50'	WNW ✓	
Frax. nigra	41 ✓	2 Rhus ✓	.25 ✓	1/4 ✓ 15'	2 NW ✓	
23. Frax. nigra	23 ✓	/				
Frax. nigra	30 ✓	/				
Frax. nigra	20 ✓	2 Rhus ✓			NW ✓	
		Rhus ✓	.25 ✓	1/4 ✓	SE ✓	
		Rhus ✓	.25 ✓	1/4 ✓	NW ✓	
		Rhus ✓	.5 ✓	2/4 ✓	NW ✓	

Rhus board climbing only near stemling #20

Stand No. 4028

Plant Ecology Laboratory
University of Wisconsin

Name:

LIANA DATA FORM

T: R: sec.

No. of points:

Date:

19 August 1960

Observers: Swan

(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
#4						
23. Frax. nigra	27 ✓	/				
24. Frax. nigra	69 ✓	/				
Frax. dead	25	/				
Frax. nigra	96 ✓	/				
Carya cordif.	65 ✓	/				
F. nigra	61 ✓	/				
25. Ulmus amer.	50 ✓	/				
Ulmus amer.	13 ✓	/				
F. penn.	60 ✓	/				
F. nigra	74 ✓	/				
26. F. nigra	313 ✓	/				
F. penn.	92 ✓	P ✓			SE ✓	
Carya ovata	91 ✓	/				
F. nigra	94 ✓	/				
27. F. nigra	13 ✓	Pr ✓			loose NW ✓	
F. nigra	15 ✓	/				

Stand No. 4028

Plant Ecology Laboratory
University of Wisconsin

Name:

LIANA DATA FORM

T: R: sec.

No. of points:

Date:

Observers:

Swan

19 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
#3 F. nigra	35 ✓	/				
Q. macro.	132 ✓	/				
28. F. nigra	79 ✓	/				
F. nigra	39 ✓	/				
F. nigra	46 ✓	/				
F. nigra	100 ✓	/				
29. F. nigra	75 ✓	/				
F. nigra	24 ✓	/				
F. nigra	62 ✓	/				
F. nigra	47 ✓	/				
30. Q. macro.	460 ✓	Rhus ✓	2.0 ✓	4/4 ✓	SE ✓	
		Rhus ✓	.5 ✓	2/4 ✓	SE ✓	
F. sp.? dead	30	/				
F. penn.	37 ✓	/				
Q. macro.	186 ✓	P ✓	.25 ✓	1/4 ✓ 9'	SW ✓	
F. nigra	105 ✓	/				

Stand No. 4028

Plant Ecology Laboratory
University of Wisconsin

Name:

LIANA DATA FORM

T: R: sec.

No. of points:

Date:

Observers:

Swan

19 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
31. F. sp.?	dead 22	/				
Q. macro.	460✓	/				
F. nigra	105✓	/				
F. nigra	107✓	/				
Q. macro	269✓	/				
32. F. nigra	52✓	/				
F. nigra	21✓	/				
F. penn.	111✓	P✓	.25✓	1/4✓	6' SW✓	
F. nigra	67✓	/				
33. F. nigra	67✓	/				
F. nigra	52✓	/				
F. nigra	95✓	/				
F. nigra	20✓	/				
34. Repeat (33)						

Stand No. 4028

Plant Ecology Laboratory
University of Wisconsin

Name:

LIANA DATA FORM

T: R: sec.

No. of points:

Date:

Observers: Swan

19 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
34. #4						
35. <i>F. nigra</i>	17✓	/				
<i>F. nigra</i>	13✓	/				
<i>F. nigra</i>	230✓	/				
<i>F. nigra</i>	40✓	P✓	.25✓	1/4✓ 13'	SW✓	
36. <i>F. nigra</i>	14✓	/				
<i>F. nigra</i> ₁₀₀	100✓	P✓	.25✓	1/4✓ 9'	SW✓	
<i>F. nigra</i>	170✓	/				
<i>Q. macro.</i>	70✓	2P✓	.25✓	1/4✓ 13' 4'	NW SW✓	
37. <i>Carya cordif.</i>	13✓	/				
<i>F. penn.</i>	98✓	/				
<i>F. nigra</i>	23✓	/				
<i>Q. macro.</i>	170✓	/				
38. <i>F. nigra</i>	82✓	3Rh✓	.25✓	1/4✓	2NE SE✓	
		P✓	.25✓	1/4✓	SW SE✓	
<i>F. nigra</i>	60✓	/				

Koshkonong Creek II - 4028

CI = 1676.8

Parthenocissus: % frequency of ground form = $\frac{25}{40} = 62.5\%$

% frequency of liana: $41/160 = 25.6\%$

Ratio of frequencies = $\frac{25.6}{62.5} = 0.41$

Density of ground form = $87/40 = 2.2$

Density of liana = $73/160 = 0.46$

Ratio of densities = $\frac{0.46}{2.2} = 0.21$

Abundance of ground form = $\frac{87}{25} = 3.48$

Abundance of liana = $\frac{73}{41} = 1.78$

Ratio of abundances = $\frac{1.78}{3.48} = 0.51$

Frequency of new lianas = $\frac{14}{160} = 10\%$

Density of new lianas = $\frac{20}{160} = 0.125$

Abundance of new lianas = $\frac{20}{16} = 1.25$

Height distribution: % in each 1/4; Height-size distribution

1/4 | - $\frac{57}{72} = 79.2\%$

2/4 - 4 = 5.6%

3/4 - 4 = 5.5%

4/4 = 7 = 9.7%

.25 | 1/4 - $\frac{58}{73} = 79.5\%$

2/4 - 4 = 5.5

3/4 - 4 = 5.5

.5 | 4/4 - 6 = 8.2

1.0 | 4/4 - 1 = 1.4

Rhus radicans

$$\text{Frequency of ground form} = 4/40 = 10\%$$

$$\text{Frequency of liana} = 10/160 = 6.25\%$$

$$\text{Ratio of frequencies} = \frac{6.25}{10.0} = 0.625$$

$$\text{Density of ground form} = 29/40 = 0.725$$

$$\text{Density of liana} = \frac{16}{160} = \del{0.10} 0.10$$

$$\text{Ratio of densities} = \frac{0.10}{0.725} = 0.14$$

$$\text{Abundance of ground form} = 29/4 = 7.25$$

$$\text{Abundance of liana} = \frac{16}{10} = 1.6$$

$$\text{Ratio of abundances} = \frac{1.6}{7.25} = 0.22$$

2 new lianas on 1 tree

Height: % in each 1/4:

$$1/4 - 11/16 = 68.8\%$$

$$2/4 - 3 = 18.8\%$$

$$3/4 - 1 = 6.2$$

$$4/4 - 1 = 6.2$$

Size-Height Distribution

$$.25 \mid 1/4 - 11 - 68.8\%$$

$$.5 \mid 2/4 - 3 - 18.8\%$$

$$1.0 \mid 3/4 - 1 - 6.2\%$$

$$2.0 \mid 4/4 - 1 - 6.2\%$$

Kosh Konong Creek II Lianas > '14

11.46-45.84 (1) 49.74-103.13 (2) 108.94-183.35 (3) 191-286.48 (4) 296.11-412.54 (5) 424.08-561.5 (6) 575-733.41 (7) 749-928 (8) 945-1146 (9) 1147+ (10)

~~#~~ Parthenocissus

1
1
2
1
5

1
1
3

1
2
1
3
7

Rhus

1
1
2

1

2

trees in each size class

###

#####

#####

###

###

###

(66)

(63)

(19)

(6)

(3)

(3)

(100)

15 = 15ck.

5 = 5ck.

FREQUENCY OF LIANA GROUND FORMS*

Stand No. 4028

County: Jefferson

Size of area sampled:
10A.

Name: Koshkonong Creek II
Observers: Swan

T: 5N R: 13E sec. 5 SW: SE

Locality

Date:

North of
19 August 1960 Busseyville

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