FINEBER 20160101 DW

PiotID		ORNL_043 measured By		measuredBy	har rage			nestedSubplotArea lianas	Area lianas	:			
date YYMMDD	20151215	1215		recordedBy	Z Z	mitchel)		nestedSubplotArea sapling,shrub,smail tree	tArea small tree	-	1		Î
sub nested plot Subplot	d tagID	species	growth	stem Diameter	measure ment	canopy diameter	canopy diameter9	heightVD1	heightVD2	stem	shrub	BaseMax	Base 90
		200		(cm)	(cm)	Max	0				311000		canopy
39 3	00515	Acer rubrum	smt	3.5	021			Ö	3.8		İ		
39 3	00516	Fagus grandifolia	smt	3,7	130			2	8	1.			
39 >	00517	Pinus strobus	sbt	53.6	1051			60 CC	क्र		,		
39	00518	Acer rubrum	sap	7	<u></u>			0	1.7	/			
39 /	00519	And The Brand Bland	紫	1, 5	10			Ф					
39	00520	Acer rubrum	smt	છ .પ્ર	130			- 2_	,		5		
-39	00521	unknown	Simt					()				
39 3	00522	unknown	smt	5.2	136	,		-3.4	2	2	61 85 9		
39	00523	Pinus virginiana	sbt	34.8	133			-3.5	22	_			
88	00524	Nyssa sylvatica	sbt	24.)	130			12.2	10	_			
39 \(00525	Acer rubrum	smt	دو -	130			0	1.9	_			
39	00526	Quercus velutina	sbt	54	130			3.6	20.7	/			
39	00527	Fagus grandifolia	sbt	26	130			- 3	12.4				
<u>66</u> ∠	00528	Acer rubrum	sbt	2.3	130			- 3	7-4	-			
39 3	00529	Acer rubrum	smt	1,4	130			0	Z -	R			
39	00530	Acer rubrum	smt	0.9	130			0	2.7	1			
39	00531	Fagus grandifolia	smt	9,5	130			W	W	_			
39 /	00532	Acer rubrum	sbt	35,3	130			W	20	/			
39 /	00533	Acer rubrum	sbt	11	130			7.8	Œ	,			
39 /	00534	Acer rubrum	smt	2,4	130			0	W	/			
/ اود	00535	Acer rubrum	smt	2.2	1021			0	W W				

39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	D plot sub
4	4	4	4	P	9)	2)		D		U	9	90	Ø	9))	P	9)	7	9)	0	D	(L)		_	nested Subplot ID
00558	00557	00556	00555	00554	00553	00552	00551	00551	00550	00550	00549	00548	00547	00546	00545	00544	00543	00542	00541	00540	00539	00538	00537	00536	tagID
Acer rubrum	Cornus florida	Oxydendrum arboreum	Acer rubrum	Acer rubrum	unknown	Nyssa sylvatica	Frangula Caroliniana	Frangula caroliniana	Frangula caroliniana	Frangula caroliniana	Oxydendrum arboreum	Acer rubrum	unknown	Acer rubrum	Oxydendrum arboreum	Amelanchier arborea	Acer rubrum	unknown	Acer rubrum	Acer rubrum	Oxydendrum arboreum	Acer rubrum	Oxydendrum arboreum	Cornus florida	species
smt	smt	sbt	smt	smt	smt	smt	5:3	Siszap	Sis	Sis	sbt	sbt	smt	smt	smt	smt	smt	smt	smt	smt	sbt	sbt	sbt	smt	growth
5.5	2.6	14.8	33.7	7.8	5.5	1.8		1.1		1.0	16,5	23.55	3,2	2.1	5,7	1.2	3,7	5.3	D.3	1,6	12,3	15.2	24.2	3,5	stem Diameter (cm)
130	130	3	130	Š	130	0		10		10	130	130	130	130	130	130	138	130	130	130	B	130	130	130	measure ment Height
																									canopy diameter Max
		-						1									ı								canopy diameter9 0
26	-d.E	-3.2	7,6	<i>-∂,</i> 3	-1.Y	C	-	0		0	-3,0	-3,0	0	O	1.9	C	4	7	G	0	5.G-	\sim	1.6-	Q	heightVD1
ς W	2	12.8	10	7	3	- 00	1			حد	7,6	14.9	3,0	S.8	h	1.6	3,2	_y	3.8	S'R	7.7	11.6	12	3.6	heightVD2
	-	<u> </u>		1/2	2	6				1		/	7	1	1	_		S		Ŋ)	1	1		stem Status
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																									Base 90 canopy

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PlotID	date YYMMDD	sub n plot St	21	21	21	21	21	21	21	17.	21	21 6	21 6	21 2	21	21	21	21	21 /		21 7	21 Z 21 L	21 2
טויטו	0.	nested Subplot ID	-	1		\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-	S	0	2		3	<i>ک</i>	χ)	7)	<i>3</i>	S	4	4 (1, 6			<i>g</i>	
rai c ca	2015 1	tagiD	01943	01944 /	01945	01946 9	01947 1	01948)1949 (1950)1951 (01952 /	01953 /	01954 /	01955 /	01956 /	01957	01958	01959 /	01960 /	01961 /	01962	
PlotID ORNL_060 measuredBy	0151216	species	Cornus florida	Acer rubrum	Sassafras albidum	Sassafras albidum	Liquidambar styraciflua	Quercus alba	01949 Quercus montana	01950 Acerrubrum	01951 Quercus mentana	Acer rubrum	unknown	Acer rubrum	Acer rubrum	Acer rubrum	Fagus grandifolia						
o allo Fic		growth	smt	SES SES	sbt	sbt	des	sbt	sbt	-Ims	sbt	smt	smt	smt	smt	smt	smt	sbt	sbt	sbt	sbt	smt	1 112
measuredBy	recordedBy_	stem Diameter (cm)	16.7	10.0	14.7	10.9	1.1	43.5	9.5h		80,3	7,9	2,5	5.8	2.9	1.9	1.9	25,3	18.9	13.9	76.4	9.7	0
By New New R	DMICHEL	measure ment Height (cm)	130	130	SE/	130	10	130	130		130	130	170	136	130	130	130	130	130	130	130	130	3
lonals	hभ	canopy diameter Max												-									
		canopy diameter 90				,														5			
nestedSubplotArea lianas	nestedSubplotArea sapling,shrub,small tree	heightVD1	5,5-	-2.0	0.5-	てで	0	-3,2	722		-3,6	h: 2-	0	-2	0	0	0	-3.6	8.8-	-37	-3.7	4.5-	10-
tArea lianas	tArea small tree	heightVD2	4.1	9	11	9	/,/	22	24	(25	Z	3.4	2	3.8	2.7	J.	7,1	15	7	Σi	3.8	200
		stem Status	_			-	/	/	_			1				1		2				/	_
		shrub									:												
		BaseMax Can diam																					
		Base 90 canopy																					

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-	2	2	17	0	2	4	W	0		0	W.	W	W	W	2	7.			8	7				1	nested Subplot ID
02283	02282	02281	02280	02279	02278	02277	01981	01980	01979	01978	01977	01976	01975	01974	01973	01972	01971	01970	01969	01968	01967	01966	01965	01964	taglD
Asimina triloba	Asimina triloba	Asimina triloba	Oxydendrum arboreum	Acer saccharum	unknown	Acer saccharum	Acer rubrum	Fagus grandifolia	Acer rubrum	Acer rubrum	Oxydendrum arboreum	Acer rubrum	Acer saccharum	Fraxinus americana	Acer rubrum	Acer rubrum	Acer rubrum	Cornus florida	Acer rubrum	Sassafras albidum	Acer rubrum	Acer rubrum	Acer saccharum	Fagus grandifolia	species
qes	sap	sap	SEN V	smt	smt	smt	smt	smt	smt	smt	sbt	smt	smt	sbt	smt	smt	smt	smt	smt	sbt	smt	SE	smt	sap	growth form
911	h'l,		6	3.2	7.0	3	3.4	7.1	3.7		1.96	4.7	1.9	40.4	00	1.7	1,5	<u>s</u>	1,2	13.8	-ie	1.5	3.6	1, 2	stem Diameter (cm)
10	10	10	130	136	38	120	130	120	130	130	130	130	130	130	130	130	130	130	130	021	130	0	130	10	ment Height (cm)
			2.2																				D		canopy diameter Max
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0	0	0	-29	-2.2	-0.6	9	-2.2	-8-	ーえん	0	-3.5	W	0	3,8	0	0	0	0	0	ース、リ	6	S	-3	0	heightVD1
H'1	1.4	1,4	Q	7	2	4.2	1.7	2	1.4	2.1	//. 8	1.1	2.6	24	4.3	گر 60	S	2,6	1.3	[1	2.3	2.4	4	1.1	heightVD2
<u> </u>		_	12	_	N	_	_	~		~						-	_	2	7		ļ	}	J	/	stem Status
			hs p				1		1)	1				= = :	shrub shape
	1	25	10,7		-		1								11	1	ı					1			BaseMax Can diam
									:Datase					*											Base 90 canopy

Vegetation Str	Vegetation Structure Datasheets SOP C: Biomass and Productivity- Apparent Individuals	mass and P	roductivity- App	arent Indi	iduals							
PlotID	ORNL_058		measuredBy	marche	H		nestedSubplotArea lianas	Area lianas				
date	2015/216		recordedBy	Durtcrel	Crell		nestedSubplotArea sapling,shrub,small tree	Area mail tree		100m2		
sub nested plot Subplot ID ID	tagID species	growth form	growth stem Diameter form (cm)	measurem ent Height: (cm)	canopy diameter Max	canopy diameter90	heightVD1	heightVD2	stem Status	shrub shape	BaseMax Can diam	Base 90 canopy
39	04617 Sassafras albidum	smt	1				\					
39	04618 Sassafras albidum	gap	li Ti					1				
39	04619 Acer rubrum	sbt		w.ta.s)				
39	04620 Asimina triloba	sap	1.9	10			C	.9	1		ų.	
39 1	04621 Oxydendrum arboreum	sap	20	10			0	09	1			
39	04622 Oxydendrum arboreum	sap	1.7	16			0	h.1	1			
39	04623 Fagus grandifolia	sbt	125	130			-3	6	/			
39	04624 Fagus grandifolia	sbt	48.3	130			4-	4	-			
39	04625 Fagus grandifolia	sbt	15.6	130			£-	19,4	1			:
39	04626 Sassafras albidum	sbt	78.3	130			-3.8	14	1			
39	04627 Sassafras albidum	sbt	25,5	130			-3,4	Sec				
39	04628 Asimina triloba	sap	1.5	10			0	1.7	_			
39 1	04629 Asimina triloba	Sam +	10	130			e	1.5	_			
39 /	04630 Asimina triloba	smt	1.8	130			0	9				
39 /	04631 Oxydendrum arboreum	smt	ය, ර	130		,	-2.7	8	N			
99	0463 Oxydendrum arboreum	des	96	40			1					
39	04633 Asimina triloba	sap	1.2	16			Ō	9				
39	04634 Acer rubrum	sbt	13.8	126			ر اين	30.4	-			
	04635 Oxydendrum arboreum	smt	2,1	130			G	2.3				
39									•	4		
W -	04636 unknown		13.8	130			72.5	S	X =			

					79 IV. 8 IVSS		-111						14						-						
41	41	41	41	41	39	39	39	39	39	39	39	39	18	39	39	39	39	39	39	39	39	39	39	39	sub plot ID
	_			_		4	N	D	4	7	N	U	4	W	W	W	W	3	S	R	w	W	100	W	nested Subplot ID
04670	04669	04668	04667	04666	04665	04664	04661	04659	04658	04657	04651	04650	04649	04648	04647	04646	04645	04644	04643	04642	04641	04640	04639	04638	taglD
04670 Oxydendrum arboreum	Oxydendrum arboreum	Oxydendrum arboreum	Fagus grandifolia	Acer rubrum	04665 Eagus grandifolia	04664 Acer rubrum	Carya glabra	Fagus grandifolia	Fagus grandifolia	Acer rubrum	Quercus velutina	Oxydendrum arboreum	Oxydendrum arboreum	Quercus montana	Cornus florida	Acer rubrum	Oxydendrum arboreum	Oxydendrum arboreum	Quercus alba	Acer rubrum	Fagus grandifolia	04640 Acer rubrum	04639 Prunus serotina	Oxydendrum arboreum	species
12 A	EN EN	smt	smt	sbt	#	sbt	sbt	sbt	sbt	sbt	sbt	sap	SPACE	觀	smt	smt	smt	sbt	sbt	sbt	sbt	sbt	-smt	des	growth form
1.0	1.3	7	6	13.3	1	217	34.9	12.6	33,2	22.8	31.2	1,9	5/, 9	10.9	7.6	4.9	1.6	14.5	53.H	12,4	12	28.3		1,9	growth stem Diameter form (cm)
13G	130	130	130	130		130	130	30	130	130	130	10	-0	130	130	130	130	130	130	130	130	130		- CC	measurem ent Height (cm)
	П																								canopy diameter Max
	П	:			1																				canopy diameter90
0	G	6.9	-3.9	\(\script{\sint\sint\sint\sint\sint\sint\sint\sint	1	5,6	5,	-3.2	مر ص	-3.1	-d.3	0	0	9,0	ģ	-1.5	O	1.8	-2	-2.2	-2.9	-1.9	1	0	heightVD1
2.1	2,4	~	,5	10	1	14	Ġ	6	92	16.71	22.3	3 .	1	.3	/	W	1.6	9	25.7	77	7.6	24)	1,6	heightVD2
		2				-				<u> </u>		_		_	_	_	_	ಶ		-				<i>j</i> =	stem Status
	k									S-								1							shrub shape
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PlotID			ORNL_046		measuredBy	Phormase	\$		nestedSubplotArea lianas	Area lianas				1015 d
date YYMMDD	D	Siac	20151715		recordedBy	Dun 1+ chell	ve[1]		nestedSubplotArea sapling,shrub,small tree	Area mail tree	-1			
sub plot ID	nested Subplot ID	tagID	species	growth	stem Diameter (cm)	measurem ent Height (cm)	canopy diameter Max	canopy diameter9 0	heightVD1	D2	stem Status	shrub shape	BaseMax Can diam	Base 90 canopy
39	W	04841	Nyssa sylvatica	sbt	34,9	130			-2·1	_	_			
39	N	04842	Nyssa sylvatica	sbt	9.7	130			-2.0	6,4				
39	\sim	04843	unknown	smt	2.2	<u>1</u> 30			C	5.0	D			190
39	\mathcal{N}	04844	Carya glabra	sbt	23.4	130			111	17.9	1			
39	W	04845	Cornus florida	smt	9.7	130			-2-	4.9	_			
39	W	04846	Acer saccharum	mbt	40.6	130		,	-2.2	19.7	_			
39	\ <u>`</u>	4846A	Acer saccharum	mbt	23.2	134				, [
39	S	04847	Fagus grandifolia	smt	4,9	130			2	<i>S</i> 00	-			
39	/	04848	Quercus velutina	sbt	49.7	130			1.6-	ee L	_			
39	/	04849	Carya glabra	smt	4.0.	8			0	4.7	_			
39	/	04850	Cercis canadensis	smt	4.5	130			C	3.2	_			
39	/	04851	-unknown Carya sp	smt	6.3	130			-1.6	4	90			۵
39	1	04852	Liquidambar styraciflua	sap	9	10			0	1.5	_			
39	1	04853	Quercus alba	sbt	41.7	130			-1.9	. ce -ce				
39	/	04854	Carya glabra	sbt	5,C1	130			-1.9	CP				
39	Ċ	04855	Cornus florida	smt	8.2	3			-1.9	4,2				
39	2	04856	Nyssa sylvatica	sbt	13.3	130			7.9	Œ				
39	9	04857	Cornus florida	smt	7.3	81			7.00	5 5	-			
39	8	04858	Nyssa sylvatica	mbt	25.2	130			-1.9	18	-		·	
39	P	04859	Nyssa sylvatica	smt	4.0	130			0	3				
39	9	04860	Prunus serotina	smt	2.5	130			0	<u>ء</u>	_			

41	41	41	41	41	41	41	41		41	39	39		39	39	39	39	39	39	39	39	39	39	39	39	D of S
J	م	4	4	4	W	7	4	4	4	Ÿ	7	2	4	4	4	4	4	4	4	1	4	ح	D	9)	Subplot
04881	04880	04879	4878A	04878	04877	04876	04875	04874	04874	04873	04872	04871	04871	04870	04869	04868	04867	4866A	04866	04865	04864	04863	04862	04861	tagiD
Ouercus stellata	Nyssa sylvatica	Oxydendrum arboreum	Quercus velutina	Quercus velutina	Prunus serotina	Nyssa sylvatica	Nyssa sylvatica	Nyssa sylvatica	Nyssa sylvatica	Prunus serotina	Quercus attal	Nyssa sylvatica	Nyssa sylvatica	Nyssa sylvatica	Quercus alba	Fagus grandifolia	Pinus echinata	Acer rubrum	Acer rubrum	Carya tomentosa	Acer rubrum	Acer rubrum	Acer rubrum	Quercus alba	species
sh+	sbt	sbt	mbt	mbt	smt	smt	smt	Sis	sis	smt	sbt	Sis	Sis	smt	sbt	sbt	sbt	mbt	mbt	sbt	smt	sap	qes	sbt	growth form
191	18,4	28.9	17, [26.6	3.7	3.5	2. 9	3,1	8,2	5.	61.2	رد م	4.5	4,6	10:0	10.2	21.8	15.8	26.5	18.3	2.0	1.6	99	1 JC	Diameter (cm)
721	130	136	130	130	130	130	130	136	130	136	130	130	130	130	130	130	136	130	130	130	130	16	10	130	ent Height (cm)
								1	4,5				3.9		:										diameter Max
	11		,	524				1	2.9				3.5												diameter9
1 9	3.1-	-19	111	11.8	-1,9	0	- 1.7		1.3	-1.2	- 1.9		1.8	-/.3	7.2	-1.5	-1. H	(66-	-1.4	0	9	0	1.4	heightVD1
ī	//	13.6]-1	(7_	9	4.7	- 0		6	3.4	R		2.9	J.2	7	7	100	1	15	-14	31	J.6	1.9	15	heightVD2
-	_	<u> </u>	1	_		_	_	/	1			_	_	-	_	-	_	-		· ·		_) = (5	stem Status
						1		165				Ç	C4/				;			1				1	shrub shape
	1		1				_			1	_		1				-	-	T T	1					BaseMax Can diam
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Vegetation Structure Datasheets SOP C: Biomass and Productivity- Apparent Individuals

מוסנוס	date	YYMMDD		ID St	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	-21-	-21	21
		1	neste base	Subpl (agin	08934	08935	08936	08937	08938	08939	08940	08941	08942	08943	08943	08944	08945	08946	08947	08948	08949	08950	08951	08952	08953
ORNL_053		015/211		species	34 Quercus alba rubin	35 Acer rubrum	36 Acer rubrum	37 Liquidambar styraciflua	38 Acer rubrum	39 Acer rubrum	40 Quercus alba	41 Acer rubrum	42 Acer rubrum	43 Acer rubrum	43_Acer_rubrum	44 Oxydendrum arboreum	45 Acer rubrum	46 Acer rubrum	47 Acer rubrum	148 Acer rubrum	49 Cornus florida	50 Acer rubrum	51 Cornus florida)52 Acer rubrum)53 Acer rubrum
			growth	form	sbt	smt	smt	smt	smt	qes	smt	smt	des-	S15 0	5 5	sbt	smt	smt	sap	smt	smt	smt	smt	sap	smt
T)	recordedBy	67		(cm)	100. y	1.0	1, 2	2.	1.1	arianamen.	77	15	1,2			10	2.1	4.2		1.2	6.0)	1.5			-5
Mitcheil		7-110 M	measure ment	Height (cm)	20	130	1 B 0	(C)	2,0	0	180	20	30	0		130	100	0,0	0	100	30	3,0			2,0
		~650	canopy	Max		1	1		Access of the Control	-	1	(1	ļ			1	1	1	1	-	1			(
				90	1	1	-	1	١	ſ	4		1	1		1	1	١	1	1	1	١			!
liested amplotated lidital	nestedSubplotArea	sapling,shru	beigh	Heigh	-3.9	Ø	Ø	Q	7	Ø	-3.0	B	B	Q		-4.2	Ø	B	Ø	Q	-2.2	Ø			Q
iotatea lia	lotArea	g,shrub,small tree	heightVD3	HelBuckby	76.0	2.6	2.3	2.5	2.8	2.1	3.2	2.8	2.0	U		2	+	48	- 4	2.2	77.72	3,0			29
d			stem	Status	_	_	-	_		_	-	_		-						_					production
	100m2	25 31	shrub	shape	1	1	1	1	1		1			!		1	American ()-		1	1	(
			BaseMax	Can diam	į		Agenda 11	1	Person	7.4	1	7	1	(.0)	1	[,3	1	1	1			-
			Base 90	canopy)	1	1	1	1		1			1))		1)

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	4		v			2				1				7		N							-		neste d Subpl ot ID
9009	80060	09007	90060	99005	09004	09003	09002-	09001-	09000	9999	86680	08997-	96680	26680	08973	08965	08961	08960-	08959	08958-	08957	08956	08955	08954-	tagID
Liquidambar	Acer rubrum	Cornus-florida	Oxydendrum arboreum	-Liquidambar-styraciflua	Liquidambar styracifiua	Oxydendrum arboreum	09002—Acer rubrum	09001—Nyssa-sylvatica	09000 Nyssa-sylvatica	Cornus florida	Acer-rubrum-	08997—Nyssa sylvatica	unknown	Liriodendron tulipifera	Carya-tomentosa	Acer rubrum	Liriodendron tulipifera	08960 Nyssa sylvatica	Liquidambar styraciflua	08958 Liquidambar styraciflua	08957—Acer-rubrum	Carya tomentosa-	unknown	08954—Oxydendrum-arboreum—	species
des	smt	smt	tms.	des	smt	Smt	sap	-smt	-smt	smt	-des-	smt	-smt	sbt	sap	sbt	sbt	smt	sap	sap	smt	-Sap	sap	smt	growth form
1.0	ار ان		10.2			10,6		And the second s			į.,			一十十		52.8	30,9	and the second		has and			\		stem Diameter (cm)
00	130		130			130								C41		130	130			a de la constitución de la const		and the second s	10		measure ment Height
t	-					1								ĺ			1	And the second		1)		canopy diameter Max
1	-))								\		-	-	and the		to relations states on adjunctional section of the			}		canopy diameter 90
Ø	12.8		-2,6			ナンンナ	and opposite or the second sec							七十一		=5,0	-510		4	a second			Ø		heightVD1
2, 2	2,9	0	9.0			9.2				and the state of t				21,0		22.7	15,0						<u>'</u>		heightVD1 heightVD2
	_		_														_						12		stem Status
1]			1										and the second	1)		shrub shape
ļ	-)			J		The second secon						,)		400				ر دن		BaseMax Can diam
1	ļ)			/		The second secon	The second secon					1		j	Ð		The state of the s]		Base 90 canopy

Marchen 7011001 on Dw

PlotID ORNL_049 measuredBy		ORNL_049		measuredBy	Duntchell				nestedSubp	nestedSubplotArea lianas				
date YYMMDD	S	20151209		recordedBy	themes.	2			nestedSubplotArea sapling,shrub,small tree	lotArea b,small tree	Í		100m2	
sub nested plot Subplo ID t ID	d tagID	species	growth form	stem Diameter (cm)	measurem ent Height (cm)	canopy	canopy diameter Max	canopy diameter 90	heightVD1	heightVD2	stem Status	shrub shape	BaseMax Can diam	Base 90 canopy
21 /	04001	Cornus florida	smt	w ce	130	1	1	1	-2.5	3,0	-		1	\
21 /	04002	Cornus florida	smt	2,2	130	1	1),	0	4.2		1	1	
21 /	04003	Fagus grandifolia	sap .	1,7	10	1	1	1	C	2.3		1	-	,
21 1	04004	Nyssa sylvatica	smt	8.8	ت 0		1	1	0	4.9		1	j	
21 /	04005	Cornus florida	smt	6.G	130	,	-	-	\Diamond	4.8		1	1	,
21 /	04006	Cornus florida	smt	5.2	130	1	-	-	+.8-	2.0		agamenta Pillon	-	
21	04007	Cornus florida	smt	Q. 9	130			1	O	4.2			١	1
21 /	04008	Cornus florida	smt	8.5	130		1	1	-3.9	2.1	-)	1)
21 /	04009	Nyssa sylvatica	smt	3,8	130)		- American	0	4.0	_		1	1
21 (04010	Cornus florida	smt	h. 83	130			Ì	-2,7	46	-	1	1	,
21 /	04011	Carya glabra	smt	80 D	130)	-3.1	1.5		١	,	1
21 /	04012	Cornus florida	smt	4.6	130		1)	-4.0	0.1		1)	
21 /	04013	unknown Aces rubein son	SHIGH	16.8	(3C)			1	-3,7	4.0	7	1)	
21 /	04014	Fagus grandifolia	sbt	10.2	140]	-3.2	4.0))	1
21 1	04015	unknown	smt	. J	130		_	1	0	ω	_			١
21 /	04016	Oxydendrum arboreum	sbt	15 E	130	-	١	1	-2.4	8.0	_	1	1	1
21 /	04017	Nyssa sylvatica	smt	10.7	130	1		-	-2.5	す.6		1	1	1
21	04018	Nyssa sylvatica	smt	7,4	130	1			-3,2	3.0	-	-	١	,
21	04019	Acer rubrum	qes	-	107	1)	l	Ø	2.5	-		2,0	
21 /	04020	Quercus velutina	smt	2.2	130	1	1	١	B	2.3	-	١	١	
2	04001		3	1	<u></u>			1	Ø	- 4	_	1	2,0)

21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	plot ID
<u></u>	+	+	G	+	3	7)	3	B	B	3	B	(1)	w	C	Ch	-	-	-	-1	-	1	_	-	_	nested Subplo t ID
04069	04068	04067	04065	04063	04059	04058	04057	04055	04048	04047	04046	4041A	04041	04035	04034	04032	04031	04030	04029	04028	04026	04024	04023	04022	tagID
Acer rubrum	Acer rubrum	Fagus grandifolia	Carya tomentosa	Acer rubrum	Prunus serotina	Quercus velutina	Prunus serotina	Vitis rotundifolia	Oxydendrum arboreum	Liriodendron tulipifera	Acer rubrum	Liriodendron tulipifera	Liriodendron tulipifera	Acer rubrum	Nyssa sylvatica	unknown	Nyssa sylvatica	Nyssa sylvatica	unknown	Nyssa sylvatica	Nyssa sylvatica	Nyssa sylvatica	Nyssa sylvatica	Fagus grandifolia	species
smt	\$ 23	smt	sbt	smt	smt	SIN	sbt	<u>a</u>	sbt	sbt	smt	mbt	mbt	sbt	sbt	smt	smt	smt	smt	smt	smt	smt	smt	des Liss	growth
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]	ļ	1		1	-		Quantity 1	1	1	١	1	1		1		1		1	١	١	1	Î	1	1	canopy diameter 90
\$	Ø	Ø	-1.5	-).6	-4.2	B	-3.9		4.6-	-3.2	-3.5	1	-3,0	-3,4	-3.0	-2.3	8	c4-	Ø	-2.+	Ø	-2.3	Ø	Ø	heightVD1
7.0	2,4	2.8	9.2	4.0	0,8	- 09	13:0	-	中の	24.8	9.0	١	25.0	13.3	5.2	2.0	2,6	3.6	19	0.0	3.0	4.0	2.1	1,8	heightVD2
-	_	-	-		<u> </u>	_ = [=	-		-	.—	1	_	1				- 1 -	-	2	~	- 6	1	1	J	stem Status
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08309	8308A	08308	08307_	08306	08305	08302	8301A	08301	08300	08299	08298	08297	08296	08295	08291	08289	8287A	08287	08286	8285A	08285	08284	08283	08282	tagID
08309 Cornus florida	8308A Oxydendrum arboreum	Oxydendrum arboreum	08307_unknown	Cornus florida	Quercus alba	Oxydendrum arboreum	8301A Acer rubrum	Acer rubrum	Oxydendrum arboreum	Liriodendron tulipifera	Liriodendron tulipifera	Liriodendron tulipifera	Cornus florida	Cornus florida	Quercus rubra	Oxydendrum arboreum	Acer rubrum	Acer rubrum	Nyssa sylvatica	Acer rubrum	Acer rubrum	Nyssa sylvatica	Acer rubrum	Vitis	species
smt	mbt	mbt	smt	sbt	sbt	sbt	mbt	mbt	sbt	sbt	sbt	sbt	smt	smt	sbt	sbt	mbt	mbt	smt	mbt	mbt	sbt	sbt	큡	growth
ج ن ک		十,0		11,2	ろそし	21.4		12.5	22,0	58.7	21.8	39.8	4,8	£.8	58.4	15.8	70,5	6.51	ر ب د	10,8	18.8	18.8	16.7	7.4	growth stem Diameter form (cm)
130		130	Augustiness and the state of th	130	130	130		120	120	130	30	130	120	130	130	130	=130	130	130	130	130	130	130	130	measure ment Height (cm)
\		property.		ı	1	ļ		Į.			-						1	\	1	1	-	1	ſ		canopy diameter Max
١		\		\	1	1		ļ	}	1					And the second second		1	}	1)	ļ		-	canopy diameter9
-1.6=		-2.2	The second secon	-2,0	しった	-7:0		0.8-	C +-	-3,6	-4.0	-3.4	77.7	12,7	- 2, 0	-2.5	and the second	-1.9	-1.7		ナルビー	-2,6	. 3. 1		heightVD1
3.5		16.3	the control openions as speci	0 2	19.0	C. 4		2.5	十十	28.0	0.91	23.8	5.3	5,0	26.5	11.2	١	12,5	6.6		10.9	14,4	11.4	}	heightVD2
_	-		and the same of th		_	-										~	2	1		-	1	({	_	stem Status
1			The same of the sa		discognision of the last	1				1	ļ					-)			-	-	1		shrub shape
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(Įt.	-		1)))	1	1		}	/)	-	1	1	>	!	-	emino,)	ļ		Base 90 canopy

PlotID	ORNL_052 measuredBy		measuredBy	By Che!	=		nestedSubp	nestedSubplotArea lianas	SE			
date YYMMDD	2015 1209		recordedBy	Show	nome.or	1	nestedSubplotArea sapling,shrub,small	stedSubplotArea bling,shrub,small tree		100m2		
sub nested plot Subplo	tagID species	growth form	stem Diameter (cm)	measurem ent Height (cm)	canopy diameter	canopy diameter	heightVD1	heightVD2	stem Status	shrub shape	BaseMax Can diam	Base 90 canopy
21	05411 Acer rubrum	sbt	10 v	0	1	1	· 0.0	4.4	7	į	}	
21	05412 Oxydendrum arboreum	\$55 \$45	1.8	õ	1	,	Ø	2.3	70.00	4 ho	2.1	1.3
21	05413 Sassafras albidum	sap	[0	,	-	Ø	6	-		1:3	
21	05414 Sassafras albidum	sap							Ø			1
21 }	05415 Acer rubrum	smt	5.	061	1	1	Z	2,8		No.	1	}
21 \	05416 Nyssa sylvatica	smt	2.7	041	1		Ø	3.2		1		
21)	05417 Nyssa sylvatica	smt	0.1	180			Ø	2.1		1	1	1
21	05418 Nyssa sylvatica	smt	(O	*	-	Ø	1.3		-	1.2	
21	05420 Oxydendrum arboreum	smt		qu	-	-	Ø	1.1		-	2,2	1
21	05421 Acer rubrum	mbt	5.2	180		_	-3.7	11.4	-	_	1	1
21 1	05422 Nyssa sylvatica	SPACE STATE	2.1	0 1		-	S.	Sil		ds d	1.6	1.4
21	05423 Nyssa sylvatica	smt	1.4	િલ્	-	_	Ø	2.4	1	١		1
21	05424 Cornus florida	smt	1.1	160	(-		2.0	_	1	-	
21	05425 Acer rubrum	des	(0	1	1	Ø	١, ٩	_	-	س.	1
21	05426 Acer rubrum	sbt	23.9	100	-	+	-20	18.3		1	1	1
21	05427 Nyssa sylvatica	smt	22.0	ं दी।	1	١	Ø	2,2			1	1
21	05428 Acer rubrum	sbt	17.0	180		\	-3,3	14.6	_		1	1
21 .	05429 Acer rubrum	sbt	31.8	ِ مطا			-3.1	19.5		ſ	١	1
21)	05430 Nyssa sylvatica	smt	1	-		1	Ø	1.8	_	į.	1,3	
21	05431 Nyssa sylvatica	smt	1.4	001	(Ø	2.2	_	1	1	1
,	05433 Fagus grandifolia	smt	1.	091		_	Ø	w Š			1	1

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21	21	21	21	21	21	21	21	21	21	21	21	21	21	_21	21	21	21	21	22	21	21	21	21	21	plot ID
- - -	-투	4	-{-	7	1.	4	7	1	2	2	2	1	+	4	4	2	2	2		2		2	_	-	nested Subplo t ID
05482	05481	05480	05479	05478	05477	05476	05475	05474	5465A	05465	05464	05463	05455	05454	05453	05450	05449	05448	05447	05445	05444	05436	05435	05434	tagID
05482 Nyssa sylvatica	Nyssa sylvatica	05480 Oxydendrum arboreum	05479 Nyssa sylvatica	Fagus grandifolia	Nyssa sylvatica	05476 unknown	Acer rubrum	Acer rubrum	5465A Quercus montana	Quercus montana	05464 Oxydendrum arboreum	Acer rubrum	Acer rubrum	05454 Nyssa sylvatica	05453 Nyssa sylvatica	Quercus alba	05449 Lirlodendron tulipifera	05448 Quercus montana	05447 Acerrubrum	05445-Oxydendrum arboreum	05444 Nyssa sylvatica	Quercus montana	Nyssa sylvatica	Fagus grandifolia	species
sap	smt	sap	smt	sap	smt	mbt	smt	sap	mbt	mbt	sbt	sap	sbt	smt	sap	sbt	sbt	sbt	des	sbt	Smt	sbt	smt	smt	growth
(5,上	(から	T	***	17.7	-in	-	15,3	37,4	かき		10.3	2:		26.2	38.8	47.0				16.3	j.	2	stem Diameter (cm)
0 1	130	0 (30	ট	1	130	130	1	130	130	130	1	130	130	0	130	130	130				130	130	130	measurem ent Height (cm)
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\	\	-	1	١	1		١	1	(١	ļ	1		1	age of the second	١	1	١				-	١	+	canopy diameter 90
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0.8	4.2	1.7	4	7.6	1	かナー	2.4			25.8	p. 2	1	0,0	2.5	1:3	19,0	24.7	26.2	68			12.5	72 00	i S	heightVD2
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date YYMMDD		20151120	6		recordedBy اس لسه اور	cland		nestedSub _i	nestedSubplotArea sapling,shrub,small tree	Norte			
sub plot ID	nested Subplot ID	tagID	species	growth form		measurem ent Height (cm)	canopy Position	heightVD1	heightVD2	stem Status	shrub	BaseMax Can diam	Base 90 canopy
21	-	03099	Nyssa sylvatica	smt	4.0	130	١	0	2.8	بو		1	1
21	_	03100	Quercus montana	mbt	32,5	130	W	-47	16,1		Î	١	1
21		3100A	Quercus montana	mbt	31,1	130	3	-4.7	18. ()		-	١	1
21	1	03101	Acer rubrum	mbt	128	135	4	-5,0	8,8	_	general control of	1	1
21		03102	Oxydendrum arboreum	smt	てい	021	f	14-	5.9		-	ga-	١
21		03103	Quercus coccinea	PB SE	29.5	130	2	-3,9	17 /	-	1	1	١
721		3103A-	Quercus coccinea	mbt					-				
21	_	03104	Fagus grandifolia	sap		10	;	0	0,6	_	ļ		1
21	_	03105	Oxydendrum arboreum	sap		01	ļ	0	-	_	1	١	1
21		03106	Oxydendrum arboreum	Sunt Surg	2,1	110	J	0	w	_	1	1	1
21		03107	Nyssa sylvatica	smt	3.0	130	١	0	2,4	_	ĵ	ļ	1
21	_	03108	Quercus montana	sbt	36,1	130	W	-3.0	19.0	<u>-</u>	1	1	١
21	_	03109	Nyssa sylvatica	smt	4.1	1130	1	C	3,7	_	1	1	1
21		03110	HEROTOMA DUTENT SP	sbt	23	3 0	4	-3,7	=,0	بر	١	3	1
21	1	03111	Oxydendrum arboreum	sbt	7.79	139	<u></u>	· 4.7	6,01	-))	J
21	-	03112	Oxydendrum arboreum	smt	7.3	130	1	-5,0	المر	-	١	1	1
21		03113	Acer rubrum	sbt	13,2	130	キ	上5	11,4	_	١	٩	1
21		03114	Oxydendrum arboreum	des	1.8	10	١	0	0,7	_	(4
21	w	03115	Nyssa sylvatica	smt	2.8	130	1	1-1-9	116	_	1	1	1
21	[[]	03116	Fagus grandifolia	sap	1.8	0.1	l	0	0,9	-	ļ	à	1
21	ال	03117	Nyssa sylvatica	smt	1.8	130	1	O	٦, ١	_	1	1	1
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Quercus montana	Oxydendrum arboreum	Oxydendrum arboreum	Oxydendrum arboreum	Quercus montana	Quercus velutina	Quercus velutina	Nyssa sylvatica	Nyssa sylvatica	Oxydendrum arboreum	Acer rubrum	Acer rubrum	Quercus montana	Quercus velutina	Quercus montana	Vaccinium corymbosum	03124 3 Vaccinium corymbosum	031263 Vaccinium corymbosum	Vaccinium corymbosum	Oxydendrum arboreum	Acer rubrum	Quercus montana	Quercus velutina	Quercus velutina	Nyssa sylvatica	species
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Vegetation Structure Datasheets SOP C: Biomass and Productivity- Apparent Individuals

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ORNL_036	20151210	species	Acer rubrum	Quercus montana	Acer saccharum	Acer saccharum	Acer rubrum	Cornus-florida	Acer rubrum	Nyssa sylvatica	Acer rubrum	Acer rubrum	Acer rubrum	Acer rubrum	Quercus montana	Oxydendrum arboreum	Acer rubrum	Acer-rubrum	Quercus montana	Acer rubrum	Cornus florida	Acer rubrum	Quercus rubra
	E	growth form	smt	sbt	sbt	sbt	smt	smt	smt	smt	3 2	HO S		sbt	sbt	-Sap	mbt	mbt	sbt	smt	smt	smt	sbt
measured By	recordedBy	stem Diameter (cm)	4,6	59,9	10,9	32.8	29		6.1	4.2	3.5	ી, 4	2.5	10.6	47.2		13,0		5. bk	8.8	4.5	2,3	144
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nestedSubplotArea lianas	nestedSubplotArea sapling,shrub,small tree	heightVD2	3.4	29.9	1.4	18.4	4.4		2,3	4.0	4.3	4.5	4	1.8	29,6	1.2	9.8		31.8	95	13	2.6	26.0
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Acer saccharum	Acer saccharum	unknown	Acer saccharum	Acer saccharum	Nyssa sylvatica	Acer saccharum	Quercus montana	Acer saccharum	Acer saccharum	Toxicodendron radicans	Toxicodendron radicans	Nyssa sylvatica	Acer saccharum	Acer rubrum	Cornus florida	Acer rubrum	Cornus florida	Nyssa sylvatica	Acer rubrum	Nyssa sylvatica	Acer rubrum	Nyssa sylvatica	Quercus montana	Cornus florida	species
smt	smt	smt	smt	smt	sbt	sbt	sbt	smt	smt	lia	lia	smt	sbt	smt	smt	smt	smt	smt	smt	sbt	smt	sbt	sbt	smt	growth form
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ORNL_063	208	species		Acer rubrum	Prunus serotina	Acer rubrum	Liriodendron tulipifera	Acer rubrum	Carya tomentosa	Asimina triloba	Asimina trilobe	Asimina triloba	Asimina triloba	Asimina-triloba	ASIMINA Triloba	-Asimina-triloba	Asimina triloba	Asimina triloba	Asimina-triloba	vitis	Carpinus caroliniana		Carpinus caroliniana
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Acer rubrum	Acer rubrum	Liriodendron tulipifera	Oxydendrum arboreum	Cornus florida	Liriodendron tulipifera	Prunus serotina	Carya tomentosa	Acerrubrum	Fagus grandifolia	Acer rubrum	Carpinus caroliniana	Acer rubrum	Nyssa sylvatica	Carpinus caroliniana	Carpinus caroliniana	Prunus serotina	Carpinus caroliniana	Carpinus caroliniana	prunus serotina	Carpinus caroliniana	Fagus grandifolia	Carpinus caroliniana	Oxydendrum arboreum	species
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PlotID ORNL_055 PlotID ORNL_055 ReasuredBy ORNL_011	2015 1120	species) Fagus grandifolia	. Fagus grandifolia	Fagus grandifolia	unknown	Fagus grandifolia	Acer rubrum	Acer saccharum	Fagus grandifolia	Fagus grandifolia	Jaknown Sp	Fagus grandifolia	Acer saccharum	Acer saccharum	Quercus montana	Fagus grandifolia	Oxydendrum arboreum		unknown		unknown Carya glabra
1355 and P		growth	smt	smt	sap	Smt	smt	sbt	smt	smt	smt	smt	sbt	smt	smt	95	smt	sbt	sbt	Smt	sbt	
measuredBy DM; +chell	recordedBy M	stem Diameter (cm)	9,8	٦' ٦	1.5		6,9	20,2	4.0	1.0	14	211	13,7	6,5	6,0	43,9	9,9	25.3	45.5		16.8	
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Toxicodendron radicans	Toxicodendron radicans	Liriogenaron tuilpirera		Toxicodendron radicans	Liriodendron tulipifera	Acer saccharum	Fagus grandifolia	Liriodendron tulipifera	Fagus grandifolia	Liriodendron tulipifera	Acer saccharum	Fagus grandifolia	Acer saccharum	Acer saccharum	and S washing	Acer saccharum	Fagus grandifolia	Fagus grandifolia	Fagus grandifolia	species					
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Vegetation Structure Datasheets SOP C: Biomass and Productivity- Apparent Individuals

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Liquidambar styraciflua	unknown Osthya vilginia	anknown Virginiava	Juniperus virginiana	Juniperus virginiana	Fraxinus pennsylvanica	Fagus grandifolia	Liquidambar styraciflua	Pinus echinata	Quercus alba	Oxydendrum arboreum	Quercus coccinea	Pinus echinata	Liquidambar styraciflua	Fagus grandifolia	Juniperus virginiana	Ostrya virginiana	Quercus coccinea	Liquidambar styraciflua	Liquidambar styraciflua	Fagus grandifolia	species	r()	001
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Vegetation Structure Datasheets SOP C: Biomass and Productivity- Apparent Individuals

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rymmod 20151119	recordedBy	M. Carl	baland			nestedSu sapling,sh	nestedSubplotArea sapling,shrub,small tree	_	9 52 7		
sub nested growth plot Subplo taglD species form	stem Diameter (cm)	measure ment Height	canopy Positio n	canopy diameter Max	canopy diameter9 0	heightV D1	heightV D2	stem Status	shrub shape	BaseMa x Can diam	Base 90 canopy
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31 01312 Oxydendrum arboreum sbt	246	130	Ŧ	4,4	4.8	-O, b	10.9		١	,	1
31 \ 01313 Acer rubrum sbt	37.3	130	3	11.8	11.3	-0,5	13,3		ſ	ſ	1
31 4 01314 Oxydendrum arboreum sbt	4.81	130	W	6.5	より	-2.1	10.0		1	1	1
31 3 01317 Nyssa sylvatica sbt	17	130	4	6.8	4-	0.0	11.0	_	١	1	1
31 + 01340 Oxydendrum arboreum sbt	11.5	130	4	1.4	9.4	-1.8	5.7	_	1	1	1
31 4 01343 Oxydendrum arboreum sbt	11,11	130	+	8,6	2,9	7.1-	8.0		Ĺ	1	١
31 4 01349 Oxydendrum arboreum sbt	19,2	130	4	8,1	0,4	-).	57	_	1	١	1
31 4 01393 Oxydendrum arboreum sbt	16.0	130	W	9.0	4.7	-2,5	11.0		1	1	Market
31 04 01397 Prunus serotina smt	1,4	130	1	1	1	0	2.8		1	1	1
31 04 01399 Prunus serotina smt	ر د د	130	1			0	2,8)	al.	age.
32 02 01318 Prunus serotina smt	1.6	130	1		1	0	19	_	1	١	\
32 02 01324 Nyssa sylvatica smt	1,1	130		1	(0	2,0	-		1	1
32 02 01325 Quercus coccinea smt	1,7	130	1	-	ſ	0	2.1	_	V	١	1
32 02 01329 Quercus alba smt		130	1	1	1		1, 7		١	ì	1
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Oxydendrum arboreum	Acer rubrum	Nyssa sylvatica	Quercus alba	Oxydendrum arboreum	Quercus alba	Liriodendron tulipifera	Unknown College	Quercus alba	Nyssa sylvatica	Quercus alba	unknows Pinus sp	Acer rubrum	Oxydendrum arboreum	Nyssa sylvatica	Unknown & Charenn	ā	Carya tomentosa	Quercus alba	Nyssa sylvatica	Quercus velutina	unknown	Quercus alba	Quercus falcata	Quercus velutina	species
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ORNL_0012	10		species	Acer saccharum	Acer saccharum	Acer saccharum	Acer saccharum	Acer saccharum	Fagus grandifolia	Acer saccharum	Magnolia acuminata	unknown	Acer saccharum	00681 unknown	Fagus grandifolia	Acer saccharum	Acer saccharum	Acer saccharum	Carya glabra	Acer saccharum	unknown Aux sauhaansmt	Fagus grandifolia	Acer saccharum	unknown
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		-10,4	4-	1:5-		2,8	~0, 3	0.8	alor	7.6	3,7	17,0	11 1	1.9	8.8	식, 3	27.3	0,6	14		3.	-0	0.6	1,3	heightVD1 heightVD2
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		ŀ	and the second	١١		-			T T	-	١		1	1	and the second			1	1))	}	,	Base 90 canopy

ENTERED JOHOOH 3 BW ent Individuals 7.9 29, 14, 29, 14,

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	210c	Olget	,	10010	01002	01003	01004	01005	01006	01007	01008	01009	01010	01011	01012	01013	01014	01015	01016	01017	01018	01019	01020	2
ORNL_0014	1113	species		Acer rubrum	Carya tomentosa	Acer rubrum	Acer rubrum	Magnolia tripetala	Acer rubrum	Oxydendrum arboreum	Acer rubrum	Acer rubrum	Cercis canadensis	unknown tallphas	Liriodendron tulipifera	Liriodendron tulipifera	Liriodendron tulipifera	Prunus serotina	Liriodendron tulipifera	Acer rubrum	Acer rubrum	Nyssa sylvatica	Oxydendrum arboreum	Acces where
		growt	h form	SMT	SBT	TMS	TMS	TMS	TMS	SBT	TMS	TMS	TMS	TMS	TMS	SMT	SMT	SBT	TMS	SMT	TMS	SMT	TMS	CMT
measuredBy	recordedBy	stem Diameter	(cm)	1.7	47.9	6,3	2,3	1,0	4.4	8,01	5.4		7,9	3,5	6.1	6,2	2.5	12.8	8,7	7.3	بر	4.6	1.5	11.0
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nestedSut	nestedSubplotArea	heightVD	۲	0	-4.0	-2.6	0	0	-2.1	-1.7	-2,3	-2.4	-1.7	-1,5	-2,1	-0,5	- 0.5	0,2	-0.4·	-0.7	-9.7	-0.9	0	-1.7
nestedSubplotArea lianas	nestedSubplotArea sapling,shrub,small tree	heightVD heightVD	2	1.5	23,3	5.4	3,4	1.0	3,2	6.6	14.0	-0.1	3.7	4,4	5,3	7.7	14.5	5.71.	5,3	8,3	17	8.4	2,3	
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		Base 90	canopy	1].	1		1	١	١	1		1	١	1	1	١	ļ		}	-	-	Marketon .	- Company

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1027 Oxydentian arbarenm	Prinnes Suntina	Unknown	atica	Acer rubrum	wakaowa (any a	Acer rubrum	Acer rubrum	Acer rubrum	Carpinus caroliniana	Prunus serotina	Quercus alba	Prunus serotina	Prunus serotina	Prunus serotina	Cercis canadensis	Oxydendrum arboreum	Oxydendrum arboreum	Acer rubrum	unknown	Acer rubrum	Oxydendrum arboreum	Acer saccharum	Prunus serotina	Nyssa sylvatica	Carya tomentosa	Acer rubrum	species
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72	2,3			1	18.5	11.5		6.6		1	7,5	1	-) (i) 	1		1	53	4,0	1	227	i i	2.3	4,3	十/51	1	canopy diameter Max
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Vegetation Structure Datasheet

SOP D: Biomass/Productivity Measurements

recorded By: M. Cumberland
date
(YYYYMMDD): 20151106

Apparent Individuals ENTERED 2016" . " IN

nestedSubplotArea (liana)

nestedSubplotArea (liana)

None

None

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SIMS	5M5	SIS	515	SMI	5/47	STS	515	SIS	SIS	SIS	SMT	SMT	SIS	SAP	JAR.	SIS	SMS	5MS	TWS	growth
2,7	1,9	1,4	1,4	1.0	2,3	-51	1.5	1.5	2.0	1,3	か、ひ	. 8	1.7	2,1	1,4	1,9	1.7	2,1	1,4	stem Diameter (cm)
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6	0	0	0	0	0	0	0	0	٥	0	0	0	0	0	0	0	0	0	0	heightVD1
20	2,2	2.0	2.0	2,5	2.3	2.3	ν (3	1.8	1.8	8	2.6	1.8	2,6	1,7	(, &	2,4	- 9	1,9	1, 3	heightVD2
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C 15	- 5	5195	5M5	5/11/5	TWS	515	5I5	SAP	SMT	5MT	1.WS	多	545	SWS.	5M5	5MT	SAP	SMS	5MS	5M5	SMS	SMS	5965	growth
1,3	14	1.7		2,2	 09	-	1,4	2,1	1,4	1.3	1.5	8]	13	بر 	2.5		2, 1	2. 8	1.6	, , ,	2.0	2.0	1.5	stem Diameter (cm)
130	130	0	6	10	130	130	130	01	130	130	130	10	0	9.3	90	130	10	G	l g	(p)	10	01	10	measurement Height (cm)
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Prunus serotina	Ligustrum sinense	Ligustrum sinense	Ligustrum sinense	Ligustrum sinense	Ligustrum sipanse	Ligustrum sinense	Ligustrum sinense	Ligustrum sinense	Ligustrum sinense	Fraxinus americana	Ulmus alata	Ulmus alata	Ulmus alata	Ligustrum sinense	Ligustrum sinense	Ligustrum sinense	Acer rubrum	Rosa multiflora	02535 Rosa multiflora	Rosa multiflora	species	2	ORNL_027
SME	sms	sms	-Sms	-sms	SMS	Sms	sms	sms	sms	qes	sap	smt	smt	sms	sms	sm	mbt	Sms	_sms		growt h form		
0,7						4.8	1.2	3.1	2,3	 	2,2	س- ا	-1			1,0	10.2			1,4	stem Diameter (cm)	recordedBy	measuredBy
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4.)						I	31	6	.8	1		ſ	1				3			T	canopy diameterM ax	<u>C</u> -	1 (1)
4.5	70.00					1	17	17	1,7			1	1			1	4.7			1	canopy diameter90		ureau
-7,7-						0	O.	0		0	0	0	0			0	دو			0	heightVD 1	nestedSubplotArea sapling,shrub,small tree	nestedSubplotArea lianas
6.3						+	-	7.5	15	ر د	2,0	3.1	3,4			2,5	0			5	heightVD 2	plotArea ub,small tı	plotAreal
	PT STAND OF STANDS						_			-			_	-			-			~	stem Status	ee.	ianas
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PlotID		PlotID ORNL_029 measuredBy		measuredBy	1	(,)	halan		nestedSu	nestedSubplotArea lianas	ianas		
date ~	20151113	113		recordedBy ∕^\ (11.75 m	2			nestedSu sapling,sh	nestedSubplotArea sapling,shrub,small tree	8	10m2	
sub nested plot Subplo ID t ID	ed look tagID	species	growt h form	stem Diameter (cm)	measure ment Height	canopy Positio	canopy diameter Max	canopy diameter9 0	heightVD 1	heightVD heightVD	stem Status	shrub	BaseMax Can diam
31	01 01691	Elaeagnus umbellata	18 S];]	5	1	lan		0	1.5		1	1
111	01 01691	Elaeagnus umbellata	-Sms-										
-31	01-01691	- Elaeagnus umbellata	Sms										
31	01 01692	Pinus virginiana	sap	7	0	1		\	0	1, 3	<u></u>		
31	01 01693	Pinus virginiana	smt	1,1	125	1	1		Ó	7.6	l		1
31	01 01694	Elaeagnus umbellata	SISSM+	16	130	1	1	(-1.3	1,4	1	1	1
31	01-01694	Elaeagnus-umbellata	sis										
31	01-01694	01-01694 Elaeagnus-umbellätä	SIS	3395									
31	01 01695	Acer rubrum	smt	1.8	130	1	Patrice;	-	0	P. S	_	-	-
31	01 01696	Fagus grandifolia	smt	2.8	130	1	1		0	1.3	_	1	1
31	01 01697	Juniperus virginiana	sbt	11.6	139	ಒ	, J		7.5	8,0	~	1	Ī
31	01 01698	Fraxinus americana	smt	7.8	130	ļ	1	1-	1-1-9	4.3	~	1	1
31	01 01699	Fagus grandifolia	smt	1,4	130	(0	2.7	_	1	١
31	01 01700	Prunus serotina	smt	7.8	130	1	1	1	- -	5.0		-	
31	01 01701	Quercus falcata	A S	ره	10	1	1	1	1-	3,2	-	1	1
31	01 01702	Quercus falcata	smt	1.1	130	1	-	,	0	<u>۴</u> ٬۲	_	ļ	1
31	01 01703	Fagus grandifolia	smt	4,2	\30	(1-22	3,5		1	ļ
31	01 01704	Elaeagnus umbellata	Smg	1.6	10		{	Į	6	1.5		and the second	1
	01 01704	Elaeagnus umbellata	sms										
	01 01704												411
	OT OTION	Elaeagnus umbellata.	Sms				-						

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)1724	11723	1723	04 01723	04 01722	04 01721	04 01720	04 01719	04 01718	04 01717	04 01716	01715	01714	01713	01712	01711	01 01710	01 01709	01 01708	01 01707	01 01706	01 01706	01 01706	01-01705-	01 01705	tagiD
04 01724 Ulmus alata	04-01723—Vaccinium stamineum	04_01723—Vaccinium stamineum	Vaccinium stamineum	Cercis canadensis	Liquidambar styraciflua	Acer rubrum	unknown	Liquidambar styraciflua	Quercus alba	Cercis canadensis	UNKNOWN VICTOR	Pinus virginiana	Juniperus virginiana	Sassafras albidum	Liquidambar styraciflua	Quercus montana	Liquidambar styraciflua	Acer rubrum	Liriodendron tulipifera	Elaeagnus umbellata	species				
sap	sms	Sms	Sws	smt	smt	smt	smt	sap	\$ €	smt	sbt	sbt	sbt	sbt	sbt	sbt	Se Se	smt	\$ S	-sms	_sms_	Stas	sms	sms	growt h form
7 7			1,10	- ب	<u>-</u>	1,0	4.5	<u>آ</u> ھ		_	a F	234	19.7	-0.9	16.6	28,4	=	1, 9	1.7			1.5			stem Diameter (cm)
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١			1		1		1	1	-	The same of the sa	ろり	6.3	22	十一	3,5	6:9	2,3	1	,						diameter Max
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<i>n</i>			0	6	Q	0	-1,2	0	0	0	-1, 3=	-11号	7, (5,6	~1.7	-1.7	-1,6	()	0			0			
-0			1,2	2,7	1.9	2,1	3. 8	0,75	2,4	2,45	12	8.11	7.7	٦,6	11,7	11,8	8,3	2.2	7			2.1			heightVD heightVD
-				_	7	-	7		-	_			1		= }	1	Ì		~_						stem Status
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ř			-	1	1)	1	1	Ť)	1	1)		1			=			BaseMax Can diam
Manager			1	_	1	1	١	1	\	\		-	1)	(1	١	١	1			١			Base 90 canopy

Vegetation Structure Datasheet

SOP D: Biomass/Productivity Measurements

date (YYYYMMDD): measuredBy: recorded By: , of Euro parland K. Haast, J. Troxler 2015 1106

Apparent Individuals ENTERED 20160103 VM

nestedSubplotArea (shrub/small tree/sapling) | Norce nestedSubplotArea (liana) Nonc plotiD: でなるにし

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^{*} Depending on growth form and plot type, canopyPosition, maxCanopyDiameter, and ninetyCanopyDiameter fields may be left blank. Consult Table 6 in SOP B of the Vegetation Structure protocol for required measurements—i.e., fields right of the double line are not required for all growth forms. Data sheet designed for double-sided printing.

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^{*} Depending on growth form and plot type, canopyPosition, maxCanopyDiameter, and ninetyCanopyDiameter fields may be left blank. Consult Table 6 in SOP B of the Vegetation Structure protocol for required measurements — i.e., fields right of the double line are not required for all growth forms. Data sheet designed for double-sided printing.

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^{*} Depending on growth form and plot type, canopyPosition, maxCanopyDiameter, and ninetyCanopyDiameter fields may be left blank. Consult Table 6 in SOP B of the Vegetation Structure protocol for required measurements — i.e., fields right of the double line are not required for all growth forms. Data sheet designed for double-sided printing.

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01 02001 Pinus treeda sbt 4,6 13,0 3 4,1 3,4 1 1 1 1 1 1 1 1 1	sub ID	ested bplot	species	growth		measure ment Height	canopy Position	canopy diameterM	canopy diameter9	heightVD heightVD	ᇎᅵ	eightVD 2	eightVD stem	tem shrub tatus shape	tem
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01 02010 Pinus virginiana Sbt 10.7 130 3 3.5 3.0 -1 01 02011 Pinus taeda Sbt 13 130 3 3.5 3.0 -1 01 02012 Quercus montana Sap 110 3 130 3 14,5 3.8 -2 01 02013 unknown Pinus Smt 1130 3 14,5 3.8 -2 04 02014 unknown Pinus virginiana Smt 3,5 130 -	31	01 02009	Liquidambar styraciflua	smt	2,0	130	1	-		0		3.4	3.4 1	3.4 1 -	3.4 1
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			form	(cm)	Height (cm)	Position	Max	0	D1	D2	Status	shape	Can diam	canopy
31 }	02445	Liriodendron tulipifera	C SOS	1,6	0	1	-	!	0	ر ر	_	1	1	
31 \	02446	Liriodendron tulipifera	smt	2,3	130		1	j	0	0,4	~)	1	١
31	02447	Quercus falcata	smt	1,4	130)		ŧ	0	2,6	-)	-)
31	02448	Acer rubrum	smt .	4.5	130	ļ	{	1	0	55		١		
31	02449	Carya tomentosa	sbt	4,4	130	W	4,71	11.9	+,1-	29,0	-	ţ	١	,
31 中	02454	Vitis rotundifolia	a	6	081	1	ŧ		1	!	_	1	1	1
31	02457	llex opaca	sap	22	01		ļ	1	0	1,2		1	1	1
31 4	02458	Asimina triloba	smt	1.7	130	1	WHIST A.		9	2.5		ł	1	-
31	02459	Toxicodendron radicans	<u></u>	14	130 	7	-	4	١	1	_	١	١	1
31 4	02460	Cercis canadensis	sap	1.4	0 1	!	1	1	0	41	_	Î	1	1
14	02463	02463 Asimina triloba	des.			#								
31	02465	Accel Tubrumally backway	STATE OF THE PARTY	1,4	0 1	{	(0	1.8	<u>-</u>	1	١	
31 牛	02466	Celtis occidentalis	sbt	16 1	130	7	10.4	6,1	-0,1	10.0		ţ	gehan	1
31 H	02467	Asimina triloba	smt	1.6	130	garent.	1	1	0	2.6		!	1	١
31 4	02468	Acer saccharum	smt	生0	130	-	a de la companya de l	-	0	5,2	_	ş	١	١
31 中	02469	Acer saccharum	smt	2.9	130	1	1	-	0	4.3			,	!
31 十	02470	Prunus serotina	sbt	14	139	4	6.3	1.7	-2,4	14,0	~	1	1	
31 4	02471	Quercus falcata	des	1,3	10	_			9	1.1	1	1	ŀ	١
32	02472	Liquidambar styraciflua	sbt	142	[30]	4	6.7	3.5	81-	13,5		1	-	1
32	02473		sap	-	10	1.	ī	1	6	1.7	_	Ţ	١	1
702	02474	Themnus caroliniana	幹	59	051				-2.1	3,8		}	-	

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		_	ىر	ىن		ب	ب	-	-		-	チ	4	1	4	F	90	<u> </u>			-	العر	بو	رو	nested Subplo t ID
02519	02518	02517	02514	02512	02509	02507	02504	02502	02501	02499	02498	02497	02496	02495	02494	02493	02488	02487	02486	02481	02480	02477	02476	02475	tagID
Acer rubrum	Acer rubrum	Fraxinus pennsylvanica	Prunus serotina	Fagus grandifolia	Acer rubrum	Juniperus virginiana	Prunus serotina	Asimina triloba	Asimina triloba	Asimina triloba	Asimina triloba	Fraxinus pennsylvanica	Cornus florida	cornus florida	Carpinus caroliniana	Juniperus virginiana	Nyssa sylvatica	Acer rubrum	unknown Cay a	Quercus falcata	Vitis rotundifolia	Liriodendron tulipifera	Toxicodendron radicans	Toxicodendron radicans	species
qes	des	sap	smt	qes	sap	sbt	sbt	sap	sap	sap	smt	sbt	smt	- TMIS	sap	sbt	smt	sbt	sbt	sbt	ä	sbt	<u>ਜ</u>	<u>ਛ</u>	growt h form
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blot d	tagID species	growth	stem Diameter	measureme nt Height	canopy Positio	canopy diameter	canopy	heightV	heightV	stem	shrub	BaseMax Can	Base 90 canopy
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31	00890 Acer saccharum	TMS	2.9	051	-	l	1	0.01 -	-1.4 -	_	1	١	1
31 /	00891 Fagus grandifolia	TMS	5	130	T	}	ļ	-11.3	-47	~	1	-	}
31	00892 Acer rubrum	SBT	18,2	120	\	10, 1	4,8	-10,5	¢.7		1	}	1
31 /	00893 Fagus grandifolia	SAP	2,1	0.0	7	1	(0	1.40		i	١	١
31	00894 Fagus grandifolia	SMT	4.7	130	-	Ţ	١	1,10-	-5.1		1	7	}
31	00895 Fagus grandifolia	TMS	<u>ب</u> ا	130	7	-	١	0	245		1	1	1
31	0 00006 Oxydendrum arboreum	sap	- 5	10	7	ı	١	0	125		and the second	-	1
31 2	00897 Oxydendrum arboreum	SBT	12,0	130	- F	5.0	1	1.4-	りて	9)	ţ	ľ	
31 2	00898 Fagus grandifolia	qes	ر د ۱-	01	-	1	\	0	1,60		de company o		١
31	00899 Fagus grandifolia	smt	1.1	130	7	1	-	Ó	2.30	-	1	1	+
31	00900 Acer rubrum	sbt	51.2	130	W	20,5	14,3	-3,7	18.4	-		*	-
31 2	00901 Quercus montana	sbt	27,5	30	3	13.7	10,5	69-	ا ا	1		1	
31	00902 Nyssa sylvatica	smt	3,4	130	+	ſ	_	5.4-	0.9	7	1	-	
31	00903 Fagus grandifolia	smt	1,4	130	+		1	0	2,42		and the same of th	J)
31 2	00904 Fagus grandifolia	smt5ap	ا.	10	1	1	}	0	2,35	_	١)	}
31	00905 Fagus grandifolia	smt	1.6	130	-,-	1	1	0	2,22			gape in	1
31 4	00906 Fagus grandifolia	smt	3,0	130	+	ţ	1	5.2-	1.8	-			١
31 4	00907 Fagus grandifolia	smt	2,2	130	+	١	1	0	2.78		1	_	
31 4	00908 Liriodendron tulipifera	sbt	13.5	130	U	3.5	3,3	-7,6	10.3		-		1
31 ³	00909 Fagus grandifolia	smt	1.4	130	1	{	١	-2,1	0.1	-	J	\	1
31 3	00910 Fagus grandifolia	smt	4.8	0 21	7	1	ſ	7	5	_	-		4-t-memory

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00935 Acer rubrum	00934 Fagus grandifolia	00933 Fagus grandifolia	00932 Fagus grandifolia	00931 Fagus grandifolia	00930 Acer rubrum	00929 Fagus grandifolia	00928 Fagus grandifolia	00927 Fagus grandifolia	00926 Fagus grandifolia	00925 Fagus grandifolia	00924 Fagus grandifolia	00923 Fagus grandifolia	00922 Fagus grandifolia	00921 Acer rubrum	00920 Fagus grandifolia	00919 Liquidambar styraciflua	00918 Fagus grandifolia	00917 Fagus grandifolia	00916 unknown Oxydendian actorin smt	00915_Oxydendrum arboreum	00914 Oxydendrum arboreum	00913 Fagus grandifolia	00912 Nyssa sylvatica	1 Fagus grandifolia	species
smt	smt	smt	smt	sap	mbt	mbt	des	smt	smt	smt	smt	sap	smt	sbt	smt	sbt	sbt	smt	smt	sbt	इस्मा औ	A SM	sbt	SMH5 bt	growth
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-0	3.5	221	4,5	0,29	16.1	10.7	1.48	1,0	ી. વ	-0,4	0,6	1.50	2,86	13.8	0,1	14.5	8.2	18-	5,3		4,5	14.5	12,4	2.7	heightV D2
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PlotID ORNL_006 measuredBy D. M. tc. white recordedBy M. Columber 1978 1117		20151117	ORNL_006		recordedBy	4. C	TCHI	inberland	ا أ	Juneay	Juneay	Juneay	Juneau	Juneay	Juneay
sub	nested Subplot	tagID	species	growt h	stem Diameter		canop	canopy diameterM	canopy diameter9	_	_	heightVD1 heightVD	heightVD1 heightVD	heightVD1 heightVD stem	heightVD1 heightVD stem shrub
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31	-	01823	Acer rubrum	smt	2,7	130	1	1	1		0	0 4.5	0 4.5 1	0 45 1	0 45 1 -
31	_	01824	Acer rubrum	smt	_	130	Į	١	1		0	8,10	1 8/1 0	0 1.8 1 -	0 1.8 1
31		01825	Acer rubrum	smt	1.0	130	1	-			0	0 1,4			
31		01826	Ostrya virginiana	sbt	12.3	130	4	6.3	1	.8		8 -5,	8 -5,	8 -5,	8 -5,
31		01828	Fagus grandifolia	smt	8,3	130	{	1		1	0.4-	0.3 0.4-	1 0.3 0.4-	- 1 0,0 0,4:	1 0,0 0,4-
31	_	01830	Fagus grandifolia	smt	4.5	130	1	1)	- 0	- 0 3.7	- 0 3.7 I	- 0 3,7 I -	- 0 3,7 II
31	_	01831	Fagus grandifolia	smt	0.8	130	1		MAZ.	1	- 20		20 5	20 5	20 5
31	_	01832	Prunus serotina	sbt	32.4	130	3	8.9		7,5	7,5 -4.3	7.5 -4.3 22.4	3 2	3 2	3 2
31	اہر	01833	Carya tomentosa	sbt	25	0.51	3	7,5		6,2	6,2 -3,5	-3,	-3,5 1	-3,5 1	-3,5 1
31	4.	01834	Carya tomentosa	sbt	£,6C	130	J	6.2		1.6	1.9 -2.9	1	2.9	2.9	2.9
31	4	01836	Acer rubrum	smt	4,2	130)			1	2.7	2,7 3,2	2,7 3	2,7 3	2,7 3
31	<u></u>	01837	Acer rubrum	smt	N	130	1	manus.	1		9	- 9 2.6	-	-	-
31	F	01838	Acer rubrum	smt	4.3	130	,	gagement .	- 1		Ó	0 6.1	0 6.1	0 6.1 1 -	0 6.1 1 -
31	+	01839	Oxydendrum arboreum	sbt	11.8	130	4	4.7	,	4.(1.4 - 3,0	1.4 -3,0 12,6	-3.0 1	-3.0 1	-3.0 1
31	4	01840	Fagus grandifolia	sap	1.5	0.1	1	1			0	- 0 1.4.	- 0 1.4.1	- 0 1.4.1 -	- 0 1.4.1
31	4.	01841	Acer rubrum	smt	5,3	1 30	1	١		1	-1.6	-	1.6	1.6	1.6
31	- F	01842	without A accombine	smt	1.5	130	1	m col		1	- 0	- 0 3.7	- 0 3.7 7	- 0 3.7 7 -	- 0 3.7 7
31	Ŧ	01843	Liquidambar styraciflua	smt	3,2	130	1			1	- 0	- 0 3,4	- 0 3.4 1	- 0 3,4 1 -	- 0 3.4 1
31	رع	01845	Carya tomentosa	sbt	27,5	130	w	6.4	Š	٦٩	9 -4.7	9	9 -47 1	9 -47 1	9 -47 1
31	4		Acer ruhrum		2	2	ļ	1		ļ	7 3,4	-3,4 2,1	1 -3,4 2,1 1	7 -3,4 2,1 1	1 2 1 2 1 1 1
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Fagus grandifolia	Acer rubrum	Liquidambar styraciflua	Liriodendron tulipifera	Fagus grandifolia	Carya tomentosa	01872 Acer rubrum	0±871—Acerrubrum	Acer rubrum	-018690xydendrumarboreum	Acer rubrum	Acerrubrum	Carya glabra	Carya tomentosa	Fagus grandifolia	Acer rubrum	Fagus grandifolia	Liquidambar styraciflua	Carya glabra	Fagus grandifolia	Acertubrum albara		Ages rubrum	Edoldenibar styraciflua	Acer rubrum	species
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7				15.3		21,2	14	15.6				16,8	15.0		1+	ر و	1.8	6.6		24,6	<u>-</u>	stem Diameter (cm)	recordedBy	measuredBy	42
				130		139	130	139				(39)	130		130	10	130	139		130	130	measure ment Height (cm)	J. (6.09)	(Jun	4 C
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1227				د,		9.0	2.7	5,5				2,8	2.1		1.6	-	1.6	1		5,2	١	canopy diameter90			26
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4311 4 11274 Aur inbons	31 04 01276 Grays Toridas	31 04 01275 Pinus taeda	31 04 01274 Acer rubrum	31 Q4_Q1273 Comus florida	31 04-61272 Cornus florida	31 4 01271 Pinus taeda	31 4 01269 Pinus taeda	31 3 01266 Fagus grandifolla	3104_01261_Pinus taeda	31 2 01259 Lirlodendron tulipifera	31 2 01252 Lonicera japonica	31 -04 01251 Acerrubrum	31 -04-01250 Acerrabrum	31 -04-01249 Quercus falcata	31 01247 unknown	31 01-01246-Goraus-florida	31 01-61245 Litiodendron-tulipifera	31 04 01244 Cornus florida	31) 01240 Pinus taeda	31 3 01239 Pinus taeda	31 01238 Pinus taeda	31 CTZ36 Pinus taeda	31 U 01234 Pinus taeda	31 4 01233 Pinus taeda	31 01232 Phrus taeda	sub nested plot Subplot taglD species
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