

FOREST 20160401 PM

Vegetation Structure Datasheets SOP C: Biomass and Productivity- Apparent Individuals

PlotID		ORNL_043				measuredBy Pharng		nestedSubplotArea lianas						
date YMMDD		20151215		recordedBy Dmitry		nestedSubplotArea sapling, shrub, small tree								
sub plot ID	nested Subplot ID	tagID	species	growth form	stem Diameter (cm)	measure ment Height (cm)	canopy diameter Max	canopy diameter9 0	heightVD1	heightVD2	stem Status	shrub shape	BaseMax Can diam	Base 90 canopy
39	3	00515	Acer rubrum	smt	3.5	130			0	3.8	1			
39	3	00516	Fagus grandifolia	smt	3.7	130			-3	5	1			
39	3	00517	Pinus strobus	sbt	53.6	130			-2.8	24	1			
39	3	00518	Acer rubrum	sap	1.7	10			0	1.7	1			
39	1	00519	Acer rubrum Fagus grandifolia	smt	1.5	10			0	1	1			
39		00520	Acer rubrum	smt	2.3	130			-2	1	1			
-39		00521	unknown	smt					-	-				
39	3	00522	unknown	smt	5.2	130			-3.4	2	2			
39	3	00523	Pinus virginiana	sbt	34.8	130			-3.5	22	1			
39	3	00524	Nyssa sylvatica	sbt	24.1	130			-2.2	10	1			
39	3	00525	Acer rubrum	smt	2.1	130			0	1.9	1			
39	3	00526	Quercus velutina	sbt	4.5	130			-2.8	20.7	1			
39	3	00527	Fagus grandifolia	sbt	26	130			-3	12.4	1			
39	3	00528	Acer rubrum	sbt	23	130			-3	14	1			
39	3	00529	Acer rubrum	smt	1.4	130			0	2.1	2			
39	1	00530	Acer rubrum	smt	0.9	130			0	2.7	1			
39	1	00531	Fagus grandifolia	smt	9.5	130			-3	5	1			
39	1	00532	Acer rubrum	sbt	35.3	130			-3	18	1			
39	1	00533	Acer rubrum	sbt	11	130			-1.8	8	1			
39	1	00534	Acer rubrum	smt	2.4	130			0	3	1			
39	1	00535	Acer rubrum	smt	2.2	130			0	3.3	1			

sub plot ID	nested Subplot ID	tagID	species	growth form	stem Diameter (cm)	measure ment Height (cm)	canopy diameter Max	canopy diameter 90	heightVD1	heightVD2	stem Status	shrub shape	BaseMax Can diam	Base 90 canopy
39	1	00536	Cornus florida	smt	3.5	130			0	3.6	1			
39	1	00537	Oxydendrum arboreum	sbt	24.2	130			-2.4	12	1			
39	2	00538	Acer rubrum	sbt	15.2	130			-3	11.6	1			
39	2	00539	Oxydendrum arboreum	sbt	12.3	130			-2.3	7.7	1			
39	2	00540	Acer rubrum	smt	1.6	130			0	2.5	5			
39	2	00541	Acer rubrum	smt	2.3	130			0	3.5	1			
39	2	00542	unknown	smt	5.3	130			-2.1	2	2			
39	2	00543	Acer rubrum	smt	3.7	130			-2	3.2	1			
39	2	00544	Amelanchier arborea	smt	1.2	130			0	1.6	1			
39	2	00545	Oxydendrum arboreum	smt	5.7	130			-1.9	4	1			
39	2	00546	Acer rubrum	smt	2.1	130			0	3.3	1			
39	2	00547	unknown	smt	3.2	130			0	3.0	2			
39	2	00548	Acer rubrum	sbt	23.5	130			-3.0	14.9	1			
39	2	00549	Oxydendrum arboreum	sbt	16.5	130			-3.0	7.6	1			
39	2	00550	Frangula caroliniana	sbt	1.0	10			0	.8	1			
39	2	00550	Frangula-caroliniana	sbt					-	-				
39	2	00551	Frangula caroliniana	sbt	1.1	10			0	1	1			
39	2	00551	Frangula caroliniana	sbt					-	-				
39	2	00552	Nyssa sylvatica	smt	1.8	10			0	1.8	6			
39	2	00553	unknown	smt	5.5	130			-1.4	3	2			
39	2	00554	Acer rubrum	smt	7.8	130			-2.3	7	1			
39	4	00555	Acer rubrum	smt	4.8	130			-2.6	10	1			
39	4	00556	Oxydendrum arboreum	sbt	14.8	130			-3.2	12.8	1			
39	4	00557	Cornus florida	smt	2.8	130			-2.8	2	1			
39	4	00558	Acer rubrum	smt	5.5	130			2.2	3.8	1			

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Vegetation Structure Datasheets SOP C: Biomass and Productivity- Apparent Individuals

plotID	ORNL_060				measuredBy	nestedSubplotArea lianas								
date	20151216				recordedBy	nestedSubplotArea sapling, shrub, small tree								
YYMMDD					DMITCHEL									
sub plot ID	nested Subplot ID	tagID	species	growth form	stem Diameter (cm)	measure ment Height (cm)	canopy diameter Max	canopy diameter 90	heightVD1	heightVD2	stem Status	shrub shape	BaseMax Can diam	Base 90 canopy
21	1	01943	Cornus florida	smt	16.7	130			-2.3	4.1	1			
21	1	01944	Acer rubrum	sbt	10.0	130			-2.0	9	1			
21	1	01945	Sassafras albidum	sbt	14.7	136			-3.0	11	1			
21	1	01946	Sassafras albidum	sbt	10.9	130			-2.2	9	1			
21	2	01947	Liquidambar styraciflua	sap	1.1	10			0	1.1	1			
21	2	01948	Quercus alba	sbt	43.5	130			-3.2	22	1			
21	2	01949	Quercus montana	sbt	45.8	130			-2.2	24	1			
21		01950	Acer rubrum	smt										
21	3	01951	Quercus montana ^{coccinea}	sbt	80.3	130			-3.6	25	1			
21	2	01952	Acer rubrum	smt	7.9	130			-3.4	3	1			
21	2	01953	Acer rubrum	smt	2.5	130			0	3.4	1			
21	2	01954	Acer rubrum	smt	5.8	136			-2	2	1			
21	2	01955	Acer rubrum	smt	2.7	130			0	3.8	1			
21	2	01956	Acer rubrum	smt	1.9	130			0	2.7	1			
21	4	01957	Acer rubrum	smt	1.9	130			0	2.8	1			
21	4	01958	unknown	sbt	25.3	130			-3.6	7.1	2			
21	4	01959	Acer rubrum	sbt	18.9	130			-3.8	15	1			
21	4	01960	Acer rubrum	sbt	13.9	130			-3.7	7	1			
21	4	01961	Acer rubrum	sbt	36.4	130			-3.7	15	1			
21	2	01962	Fagus grandifolia	smt	9.7	130			-3.4	2.5	1			
21	4	01963	Fagus grandifolia	smt	3.8	130			-4	0.6	1			

sub plot ID	nested Subplot ID	tagID	species	growth form	stem Diameter (cm)	measure ment Height (cm)	canopy diameter Max	canopy diameter 90	heightVD1	heightVD2	stem Status	shrub shape	BaseMax Can diam	Base 90 canopy
21	4	01964	Fagus grandifolia	sap	1.2	10			0	1.1	1			
21	4	01965	Acer saccharum	smt	3.6	130			-3	4	1			
21	4	01966	Acer rubrum	smt	1.5	10			0	2.4	1			
21	4	01967	Acer rubrum	smt	1.6	130			0	2.3	1			
21	4	01968	Sassafras albidum	sbt	13.8	130			-2.4	11	1			
21	3	01969	Acer rubrum	smt	1.2	130			0	1.3	2			
21	3	01970	Cornus florida	smt	1.8	130			0	2.6	2			
21	3	01971	Acer rubrum	smt	1.5	130			0	2.5	1			
21	3	01972	Acer rubrum	smt	1.7	130			0	2.8	1			
21	3	01973	Acer rubrum	smt	3.1	130			0	4.3	1			
21	3	01974	Fraxinus americana	sbt	40.4	130			-3.8	24	1			
21	3	01975	Acer saccharum	smt	1.9	130			0	2.6	1			
21	3	01976	Acer rubrum	smt	4.7	130			-3	1.1	1			
21	3	01977	Oxydendrum arboreum	sbt	26.1	130			-3.5	11.8	1			
21	3	01978	Acer rubrum	smt	1.1	130			0	2.1	1			
21	3	01979	Acer rubrum	smt	3.7	130			-2.6	1.4	1			
21	3	01980	Fagus grandifolia	smt	7.1	120			-3.1	2	1			
21	3	01981	Acer rubrum	smt	3.4	130			-2.2	1.7	1			
39	2	02277	Acer saccharum	smt	3.5	120			0	4.2	1			
39	2	02278	unknown	smt	7.0	130			-2.6	2	2			
39	2	02279	Acer saccharum	smt	3.2	130			-2.2	2	1			
39	2	02280	Oxydendrum arboreum	smt	6	130	2.2	1.4	-2.9	0	2	hsp	10.7	
39	2	02281	Asimina triloba	sap	1.3	10			0	1.4	1			
39	2	02282	Asimina triloba	sap	1.4	10			0	1.4	1			
39	2	02283	Asimina triloba	sap	1.6	10			0	1.4	1			

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Vegetation Structure Datasets SOP C: Biomass and Productivity- Apparent Individuals

PlotID	ORNL_058			measuredBy	recordedBy	nestedSubplotArea lianas	100m ²					
date	2015/12/16			Phonaseye	Duffell	nestedSubplotArea sapling, shrub, small tree	heightVD1	heightVD2	stem Status	shrub shape	BaseMax Can diam	Base 90 canopy
sub plot ID	nested Subplot ID	tagID	species	growth form	stem Diameter (cm)	measured Height (cm)	canopy diameter Max	canopy diameter90				
39		04617	Sassafras albidum	smt								
39		04618	Sassafras albidum	sap								
39		04619	Acer rubrum	sbt								
39	1	04620	Asimina triloba	sap	1.9	10		0	.9	1		
39	1	04621	Oxydendrum arboreum	sap	2.0	10		0	.9	1		
39	1	04622	Oxydendrum arboreum	sap	1.7	16		0	1.4	1		
39	1	04623	Fagus grandifolia	sbt	12.5	130		-3	6	1		
39	1	04624	Fagus grandifolia	sbt	48.3	130		-2	4	1		
39	1	04625	Fagus grandifolia	sbt	15.6	130		-2	19.4	1		
39	1	04626	Sassafras albidum	sbt	18.3	130		-3.8	14	1		
39	1	04627	Sassafras albidum	sbt	25.5	130		-3.4	22	1		
39	1	04628	Asimina triloba	sap	1.5	10		0	1.7	1		
39	1	04629	Asimina triloba	smt	1.0	130		0	1.5	1		
39	1	04630	Asimina triloba	smt	1.8	130		0	2.8	1		
39	1	04631	Oxydendrum arboreum	smt	8.8	130		-2.7	8	2		
39	1	04632	Oxydendrum arboreum	sap	2.8	10				1		
39	1	04633	Asimina triloba	sap	1.2	16		0	.9	1		
39	1	04634	Acer rubrum	sbt	13.8	130		-3	12.8	1		
39	1	04635	Oxydendrum arboreum	smt	2.1	130		0	2.3	1		
39	3	04636	unknown	sbt	13.8	130		-2.5	5	2		
39	3	04637	Prunus serotina	smt	5	130		-2.5	.3	2		

sub plot ID	nested Subplot ID	tagID	species	growth form	stem Diameter (cm)	measurment Height (cm)	canopy diameter Max	canopy diameter 90	heightVD1	heightVD2	stem Status	shrub shape	BaseMax Can diam	Base 90 canopy
39	3	04638	Oxydendrum arboreum	sap	1.9	10			0	1.6	1			
39	3	04639	Prunus serotina	smt					-	-				
39	3	04640	Acer rubrum	sbt	28.3	130			-1.9	24	1			
39	3	04641	Fagus grandifolia	sbt	12	130			-2.9	7.6	1			
39	3	04642	Acer rubrum	sbt	12.4	130			-2.2	7.7	1			
39	3	04643	Quercus alba	sbt	53.4	130			-2	25.7	1			
39	3	04644	Oxydendrum arboreum	sbt	14.5	130			1.8	9	2			
39	3	04645	Oxydendrum arboreum	smt	1.6	130			0	2.7	1			
39	3	04646	Acer rubrum	smt	4.9	130			-1.5	3	1			
39	3	04647	Cornus florida	smt	2.4	130			-2	1	1			
39	3	04648	Quercus montana	smt	10.9	130			-1.8	11	1			
39	4	04649	FAGUS grandifolia Oxydendrum arboreum	SAP smt	1.9	10			0	1.4	1			
39	3	04650	Oxydendrum arboreum	sap	1.9	10			0	.9	1			
39	3	04651	Quercus velutina	sbt	31.2	130			-2.3	22.3	1			
39	4	04657	Acer rubrum	sbt	22.8	130			-3.1	16.7	1			
39	4	04658	Fagus grandifolia	sbt	33.2	130			-2.8	22	1			
39	2	04659	Fagus grandifolia	sbt	12.6	130			-3.2	6	1			
39	2	04661	Carya glabra	sbt	34.9	130			-5	18	1			
39	2	04664	Acer rubrum	sbt	21.7	130			-5.6	14	1			
39	3	04665	Fagus grandifolia	smt					-	-				
41	1	04666	Acer rubrum	sbt	13.3	130			-5	10	1			
41	1	04667	Fagus grandifolia	smt	6	130			-3.9	1.5	1			
41	1	04668	Oxydendrum arboreum	smt	7	130			-6.9	-3	2			
41	1	04669	Oxydendrum arboreum	SMT smt	1.3	130			0	2.4	1			
41	1	04670	Oxydendrum arboreum	SMT smt	1.0	130			0	2.1	1			

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Vegetation Structure Datasheets SOP C: Biomass and Productivity- Apparent Individuals

PlotID	ORNL_046				measuredBy	Phynase				nestedSubplotArea	lianas			
date	20151215				recordedBy	Dimitri				nestedSubplotArea	sapling, shrub, small tree			
YYMMDD														
sub plot ID	nested Subplot ID	tagID	species	growth form	stem Diameter (cm)	measured ent Height (cm)	canopy diameter Max	canopy diameter 0	heightVD1	heightVD2	stem Status	shrub shape	BaseMax Can diam	Base 90 canopy
39	3	04841	Nyssa sylvatica	sbt	34.9	130			-2.1	19	1			
39	3	04842	Nyssa sylvatica	sbt	9.7	130			-2.0	6.4	1			
39	3	04843	unknown	smt	3.5	130			0	5.0	2			
39	3	04844	Carya glabra	sbt	23.4	130			-1.7	17.9	1			
39	3	04845	Cornus florida	smt	9.7	130			-2	4.9	1			
39	3	04846	Acer saccharum	mbt	40.6	130			-2.2	19.7	1			
39	3	4846A	Acer saccharum	mbt	23.2	130			-	-	1			
39	3	04847	Fagus grandifolia	smt	4.9	130			-2	2.8	1			
39	1	04848	Quercus velutina	sbt	49.7	130			-2.1	22	1			
39	1	04849	Carya glabra	smt	4.0	130			0	4.7	1			
39	1	04850	Cercis canadensis	smt	4.5	130			0	3.2	1			
39	1	04851	unknown Carya sp	smt	6.3	130			-1.8	4	2			
39	1	04852	Liquidambar styraciflua	sap	2.1	10			0	1.5	1			
39	1	04853	Quercus alba	sbt	41.7	130			-1.9	18.5	1			
39	1	04854	Carya glabra	sbt	10.3	130			-1.9	8	1			
39	2	04855	Cornus florida	smt	8.2	130			-1.9	4.2	1			
39	2	04856	Nyssa sylvatica	sbt	13.3	130			-1.9	8	1			
39	2	04857	Cornus florida	smt	7.3	130			-1.8	5.5	1			
39	2	04858	Nyssa sylvatica	mbt	25.2	130			-1.9	18	1			
39	2	04859	Nyssa sylvatica	smt	4.0	130			0	3.9	1			
39	2	04860	Prunus serotina	smt	2.5	130			0	2.1	1			

sub plot ID	nested Subplot ID	tagID	species	growth form	stem Diameter (cm)	measurment Height (cm)	canopy diameter Max	canopy diameter 0	heightVD1	heightVD2	stem Status	shrub shape	BaseMax Can diam	Base 90 canopy
39	2	04861	Quercus alba	sbt	26.1	130			-1.4	15	5			
39	2	04862	Acer rubrum	sap	1.8	10			0	1.9	1			
39	4	04863	Acer rubrum	sap	1.6	16			0	2.6	1			
39	4	04864	Acer rubrum	smt	2.0	130			0	3.1	1			
39	4	04865	Carya tomentosa	sbt	18.3	130			-1.4	14	1			
39	4	04866	Acer rubrum	mbt	26.5	130			-1.8	15	1			
39	4	4866A	Acer rubrum	mbt	15.8	130			-	-	1			
39	4	04867	Pinus echinata	sbt	21.8	130			-1.4	18	1			
39	4	04868	Fagus grandifolia	sbt	10.2	130			-1.5	7	1			
39	4	04869	Quercus alba	sbt	10.0	130			-1.3	7	1			
39	4	04870	Nyssa sylvatica	smt	4.6	130			-1.3	2.2	1			
39	4	04871	Nyssa sylvatica	sis	4.5	130	3.9	3.5	-1.8	2.9	1	cy1		
	4	04871	Nyssa sylvatica	sis	2.8	130			-	-	1			
39	4	04872	Quercus alba ^{falcata}	sbt	61.2	130			-1.9	25	1			
39	4	04873	Prunus serotina	smt	5.1	130			-1.2	4.8	1			
41	4	04874	Nyssa sylvatica	sis	8.2	130	4.5	2.9	-1.3	6	1			
	4	04874	Nyssa sylvatica	sis	3.1	130	-	-	-	-	1	cy1		
41	4	04875	Nyssa sylvatica	smt	2.9	130			-1.7	1.8	1			
41	4	04876	Nyssa sylvatica	smt	2.5	130			0	4.7	1			
41	3	04877	Prunus serotina	smt	3.7	130			-1.9	2	1			
41	4	04878	Quercus velutina	mbt	26.6	130			-1.8	17	1			
41	4	4878A	Quercus velutina	mbt	17.1	130			-	-	1			
41	4	04879	Oxydendrum arboreum	sbt	28.9	130			-1.9	15.6	1			
41	3	04880	Nyssa sylvatica	sbt	18.4	130			-1.8	11	1			
41	3	04881	Quercus stellata	sbt	19.6	130			-1.9	17	1			

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Vegetation Structure Datasheets SOP C: Biomass and Productivity- Apparent Individuals

PlotID	ORNL_053				measuredBy	nestedSubplotArea lianas								
date	YMMDD 2015/12/11				recordedBy	nestedSubplotArea 1000m ² 25 m ²								
sub plot ID	nested Subplot ID	tagID	species	growth form	stem Diameter (cm)	measure ment Height (cm)	canopy diameter Max	canopy diameter 90	heightVD1	heightVD2	stem Status	shrub shape	BaseMax Can diam	Base 90 canopy
21	1	08934	Quercus alba rubra	sbt	10.4	130	-	-	-3.9	26.0	1	-	-	-
21	1	08935	Acer rubrum	smt	1.0	130	-	-	0	2.6	1	-	-	-
21	1	08936	Acer rubrum	smt	1.2	130	-	-	0	2.3	1	-	-	-
21	1	08937	Liquidambar styraciflua	smt	1.5	130	-	-	0	2.5	1	-	-	-
21	1	08938	Acer rubrum	smt	1.1	130	-	-	0	2.8	1	-	-	-
21	1	08939	Acer rubrum	sap	-	110	-	-	0	2.1	1	-	1.4	-
21	1	08940	Quercus alba	smt	5.0	130	-	-	-3.0	3.2	1	-	-	-
21	1	08941	Acer rubrum	smt	1.5	130	-	-	0	2.8	1	-	-	-
21	1	08942	Acer rubrum	smt	1.2	130	-	-	0	2.0	1	-	-	-
21	1	08943	Acer rubrum	sap	-	10	-	-	0	1.5	1	-	1.0	-
21	1	08943	Acer rubrum	sis	-	-	-	-	-	-	-	-	-	-
21	1	08944	Oxydendrum arboreum	sbt	11.9	130	-	-	-4.2	9.1	1	-	-	-
21	1	08945	Acer rubrum	smt	2.1	130	-	-	0	4.1	1	-	-	-
21	1	08946	Acer rubrum	smt	4.2	130	-	-	0	4.8	1	-	-	-
21	1	08947	Acer rubrum	sap	-	0	-	-	0	1.7	1	-	1.3	-
21	1	08948	Acer rubrum	smt	1.2	130	-	-	0	2.2	1	-	-	-
21	1	08949	Cornus florida	smt	6.3	130	-	-	-2.2	2.3	1	-	-	-
21	1	08950	Acer rubrum	smt	1.3	130	-	-	0	3.0	1	-	-	-
21	1	08951	Cornus florida	smt	-	-	-	-	-	-	-	-	-	-
21	1	08952	Acer rubrum	sap	-	-	-	-	-	-	-	-	-	-
21	1	08953	Acer rubrum	smt	1.9	130	-	-	0	2.9	1	-	-	-

sub plot ID	nest d Subpl at ID	tagID	species	growth form	stem Diameter (cm)	measure ment Height (cm)	canopy diameter Max	canopy diameter 90	heightVD1	heightVD2	stem Status	shrub shape	BaseMax Can diam	Base 90 canopy
21		08954	Oxydendrum arboreum	smt										
21	1	08955	unknown	sap	—	10	—	—	0	2.1	2	—	1.3	—
21		08956	Carya tomentosa	sap										
21		08957	Acer rubrum	smt										
21		08958	Liquidambar styraciflua	sap										
21		08959	Liquidambar styraciflua	sap										
21		08960	Nyssa sylvatica	smt										
21	3	08961	Liriodendron tulipifera	sbt	30.9	130	—	—	-5.0	15.0	1	—	—	—
21	3	08965	Acer rubrum	sbt	52.8	130	—	—	-5.0	22.7	1	—	—	—
21		08973	Carya tomentosa	sap										
21	7	08995	Liriodendron tulipifera	sbt	44.4	130	—	—	-4.7	21.0	1	—	—	—
21		08996	unknown	smt										
21		08997	Nyssa sylvatica	smt										
21		08998	Acer rubrum	sap										
21		08999	Cornus florida	smt										
21		09000	Nyssa sylvatica	smt										
21		09001	Nyssa sylvatica	smt										
21		09002	Acer rubrum	sap										
21	2	09003	Oxydendrum arboreum	smt	10.0	130	—	—	-2.7	9.2	1	—	—	—
21		09004	Liquidambar styraciflua	smt										
21		09005	Liquidambar styraciflua	sap										
21	3	09006	Oxydendrum arboreum	smt	10.2	130	—	—	-2.0	9.0	1	—	—	—
21		09007	Cornus florida	smt										
21	4	09008	Acer rubrum	smt	3.9	130	—	—	-2.8	2.9	1	—	—	—
21	4	09009	Liquidambar	sap	1.0	130	—	—	0	2.2	1	—	—	—

FIELD 20160104 BM

Vegetation Structure Datasheets SOP C: Biomass and Productivity- Apparent Individuals

PlotID	ORNL_049				measuredBy	nestedSubplotArea lianas										
date	20151209				recordedBy	100m ²										
YYMMDD	sub plot ID	nested Subplot ID	tagID	species	growth form	stem Diameter (cm)	measured ent Height (cm)	canopy Position	canopy diameter Max	canopy diameter 90	heightVD1	heightVD2	stem Status	shrub shape	BaseMax Can diam	Base 90 canopy
21	1	04001	Cornus florida		smt	8.3	130	-	-	-	2.5	3.0	1	-	-	-
21	1	04002	Cornus florida		smt	2.2	130	-	-	-	0	4.2	1	-	-	-
21	1	04003	Fagus grandifolia		sap	1.7	10	-	-	-	0	2.3	1	-	-	-
21	1	04004	Nyssa sylvatica		smt	3.3	130	-	-	-	0	4.9	1	-	-	-
21	1	04005	Cornus florida		smt	2.2	130	-	-	-	0	4.8	1	-	-	-
21	1	04006	Cornus florida		smt	5.2	130	-	-	-	-3.7	2.0	1	-	-	-
21	1	04007	Cornus florida		smt	2.9	130	-	-	-	0	4.2	1	-	-	-
21	1	04008	Cornus florida		smt	5.2	130	-	-	-	-3.9	2.1	1	-	-	-
21	1	04009	Nyssa sylvatica		smt	3.8	130	-	-	-	0	4.0	1	-	-	-
21	1	04010	Cornus florida		smt	8.4	130	-	-	-	-2.7	4.6	1	-	-	-
21	1	04011	Carya glabra		smt	2.8	130	-	-	-	-3.1	1.5	1	-	-	-
21	1	04012	Cornus florida		smt	4.6	130	-	-	-	-4.0	1.0	1	-	-	-
21	1	04013	unknown <i>Acer rubrum</i>		smt	16.8	130	-	-	-	-3.7	4.0	2	-	-	-
21	1	04014	Fagus grandifolia		sbt	10.2	140	-	-	-	-3.2	4.0	1	-	-	-
21	1	04015	unknown		smt	8.1	130	-	-	-	0	2.8	1	-	-	-
21	1	04016	Oxydendrum arboreum		sbt	15.8	130	-	-	-	-2.4	8.0	1	-	-	-
21	1	04017	Nyssa sylvatica		smt	10.7	130	-	-	-	-2.5	7.6	1	-	-	-
21	1	04018	Nyssa sylvatica		smt	7.4	130	-	-	-	-3.2	3.0	1	-	-	-
21	1	04019	Acer rubrum		sap	-	10	-	-	-	0	2.5	1	-	2.0	-
21	1	04020	Quercus velutina		smt	2.2	130	-	-	-	0	3.3	1	-	-	-
21	1	04021	Fagus grandifolia		sap	-	10	-	-	-	0	1.7	1	-	2.0	-

sub plot ID	nested Subplot ID	tagID	species	growth form	stem Diameter (cm)	measurment Height (cm)	canopy Position	canopy diameter Max	canopy diameter 90	heightVD1	heightVD2	stem Status	shrub shape	BaseMax Can diam	Base canopy
21	1	04022	Fagus grandifolia	sap	1.0	130	-	-	-	0	1.8	1	-	-	-
21	1	04023	Nyssa sylvatica	smt	1.2	130	-	-	-	0	2.1	1	-	-	-
21	1	04024	Nyssa sylvatica	smt	6.3	130	-	-	-	-2.3	4.0	1	-	-	-
21	1	04026	Nyssa sylvatica	smt	2.7	130	-	-	-	0	3.0	1	-	-	-
21	1	04028	Nyssa sylvatica	smt	8.0	130	-	-	-	-2.1	6.0	1	-	-	-
21	1	04029	unknown	smt	9.9	130	-	-	-	0	1.9	2	-	-	-
21	1	04030	Nyssa sylvatica	smt	7.5	130	-	-	-	-4.0	3.8	1	-	-	-
21	1	04031	Nyssa sylvatica	smt	4.2	130	-	-	-	0	2.6	1	-	-	-
21	1	04032	unknown	smt	3.5	130	-	-	-	-2.3	2.0	1	-	-	-
21	3	04034	Nyssa sylvatica	sbt	13.7	130	-	-	-	-3.0	5.2	1	-	-	-
21	3	04035	Acer rubrum	sbt	25.2	130	-	-	-	-3.4	13.3	1	-	-	-
21	3	04041	Liriodendron tulipifera	mht	50.2	130	-	-	-	-3.0	25.0	1	-	-	-
21	3	4041A	Liriodendron tulipifera	mht	43.1	130	-	-	-	-	-	1	-	-	-
21	3	04046	Acer rubrum	smt	10.0	130	-	-	-	-3.5	9.0	1	-	-	-
21	3	04047	Liriodendron tulipifera	sbt	47.8	130	-	-	-	-3.2	24.8	1	-	-	-
21	3	04048	Oxydendrum arboreum	sbt	14.5	130	-	-	-	-3.7	7.0	1	-	-	-
21	3	04055	Vitis rotundifolia	lia	1.3	130	-	-	-	-	-	1	-	-	-
21	3	04057	Prunus serotina	sbt	17.1	130	-	-	-	-3.9	13.0	1	-	-	-
21	1	04058	Prunus serotina	sap	-	10	-	-	-	0	1.8	1	-	1.4	-
21	3	04059	Prunus serotina	smt	10.8	130	-	-	-	-4.2	8.0	1	-	-	-
21	4	04063	Acer rubrum	smt	6.2	130	-	-	-	-1.6	4.0	1	-	-	-
21	3	04065	Carya tomentosa	sbt	10.9	130	-	-	-	-1.5	9.2	1	-	-	-
21	4	04067	Fagus grandifolia	smt	1.6	130	-	-	-	0	2.8	1	-	-	-
21	4	04068	Acer rubrum	sap	1.0	140	-	-	-	0	2.4	1	-	-	-
21	4	04069	Acer rubrum	smt	1.1	130	-	-	-	0	2.0	1	-	-	-

Vegetation Structure Datasheets SOP C: Biomass and Productivity- Apparent Individuals

PlotID	ORNL_059				measuredBy	DN Mitchell				nestedSubplotArea	lianas			
date	20151210				recordedBy	STH DM 059				nestedSubplotArea	100m2			
YYMMDD										sapling, shrub, small tree				
sub plot ID	nested Subplot ID	tagID	species	growth form	stem Diameter (cm)	measure ment Height (cm)	canopy diameter Max	canopy diameter90	heightVD1	heightVD2	stem Status	shrub shape	BaseMax Can diam	Base 90 canopy
21	1	08253	Quercus velutina	sbt	58	130	-	-	-4.0	24.7	1	-	-	-
21	1	08254	Cornus florida	smt	5.9	130	-	-	-2.3	3.1	1	-	-	-
21	1	08255	Acer rubrum	mht	18.0	130	-	-	-2.4	12.8	1	-	-	-
-21	-	8255A	Acer-rubrum	mht										
21	1	08256	Acer rubrum	sbt	21.3	130	-	-	-1.9	13.8	2	-	-	-
21	1	08257	Cornus florida	smt	7.0	130	-	-	-3.8	4.0	1	-	-	-
21	1	08258	unknown	smt	4.5	130	-	-	-3.8	1.0	2	-	-	-
21	1	08259	Nyssa sylvatica	smt	3.0	130	-	-	0	4.1	1	-	-	-
21	1	08260	Acer rubrum	sbt	13.3	130	-	-	-2.0	12.1	1	-	-	-
21	1	08261	Cornus florida	smt	9.0	130	-	-	-3.4	5.0	1	-	-	-
21	3	08262	Acer rubrum	sbt	10.3	130	-	-	-2.8	8.0	1	-	-	-
21	3	08263	Acer saccharum	sbt	19.5	130	-	-	-5.0	8.4	1	-	-	-
21	3	08264	Quercus rubra	sbt	40.4	130	-	-	-4.7	19.1	1	-	-	-
21	3	08270	vitis	lia	3.3	130	-	-	-	-	1	-	-	-
21	3	08271	vitis	lia	1.3	130	-	-	-	-	1	-	-	-
21	3	08274	Nyssa sylvatica	sbt	11.8	130	-	-	-6.0	5.0	1	-	-	-
21	3	08276	Acer rubrum	sbt	11.3	130	-	-	-3.9	11.4	1	-	-	-
-21	-	08278	unknown	smt										
21	3	08279	vitis	lia	1.0	130	-	-	-	-	1	-	-	-
21	4	08280	Acer rubrum	smt	1.3	130	-	-	0	2.0	1	-	-	-
21	4	08281	vitis	lia	1.8	130	-	-	-	-	1	-	-	-

sub plot ID	nested Subplot ID	tagID	species	growth form	stem Diameter (cm)	measure ment Height (cm)	canopy diameter Max	canopy diameter 0	heightVD1	heightVD2	stem Status	shrub shape	BaseMax Can diam	Base 90 canopy
21	4	08282	Vitis	lia	2.7	130	-	-	-	-	1	-	-	-
21	4	08283	Acer rubrum	sbt	16.7	130	-	-	-3.1	11.4	1	-	-	-
21	4	08284	Nyssa sylvatica	sbt	18.8	130	-	-	-2.6	14.4	1	-	-	-
21	4	08285	Acer rubrum	mbt	18.8	130	-	-	-3.4	10.9	1	-	-	-
21	4	8285A	Acer rubrum	mbt	10.8	130	-	-	-	-	1	-	-	-
21	4	08286	Nyssa sylvatica	smt	8.7	130	-	-	-1.7	6.6	1	-	-	-
21	4	08287	Acer rubrum	mbt	19.9	130	-	-	-1.9	13.5	1	-	-	-
21	4	8287A	Acer rubrum	mbt	10.5	130	-	-	-	-	2	-	-	-
21	2	08289	Oxydendrum arboreum	sbt	15.8	130	-	-	-2.5	11.2	1	-	-	-
21	2	08291	Quercus rubra	sbt	16.4	130	-	-	-2.0	26.5	1	-	-	-
21	4	08295	Cornus florida	smt	8.7	130	-	-	-3.7	5.0	1	-	-	-
21	4	08296	Cornus florida	smt	8.7	130	-	-	-3.7	5.3	1	-	-	-
21	4	08297	Liriodendron tulipifera	sbt	39.8	130	-	-	-3.4	23.8	1	-	-	-
21	4	08298	Liriodendron tulipifera	sbt	21.8	130	-	-	-4.0	15.0	1	-	-	-
21	2	08299	Liriodendron tulipifera	sbt	58.9	130	-	-	-3.6	28.0	1	-	-	-
21	4	08300	Oxydendrum arboreum	sbt	22.0	130	-	-	-4.0	14.4	1	-	-	-
21	2	08301	Acer rubrum	mbt	12.5	130	-	-	-3.0	9.0	1	-	-	-
21		8301A	Acer rubrum	mbt										
21	2	08302	Oxydendrum arboreum	sbt	21.4	130	-	-	-2.0	14.0	1	-	-	-
21	2	08305	Quercus alba	sbt	37.6	130	-	-	-3.5	19.0	1	-	-	-
23	2	08306	Cornus florida	sbt	11.2	130	-	-	-2.0	5.0	1	-	-	-
23		08307	unknown	smt										
23	2	08308	Oxydendrum arboreum	mbt	41.0	130	-	-	-2.2	16.3	1	-	-	-
23		8308A	Oxydendrum arboreum	mbt										
23	2	08309	Cornus florida	smt	6.3	130	-	-	-1.6	3.5	1	-	-	-

Vegetation Structure Datasheets SOP C: Biomass and Productivity- Apparent Individuals

PlotID	ORNL_052					measuredBy	DM-the 11					nestedSubplotArea	lianas				
date	2015 12 09					recordedBy	Stinson					nestedSubplotArea	100m2				
YYMMDD	sub plot ID	nested Subplot ID	tagID	species	growth form	stem Diameter (cm)	measurment Height (cm)	canopy diameter Max	canopy diameter 90	heightVD1	heightVD2	stem Status	shrub shape	BaseMax Can diam	Base 90 canopy		
21	1	1	05411	Acer rubrum	sbt	18.3	130	-	-	-3.0	7.7	2	-	-	-		
21	1	1	05412	Oxydendrum arboreum	sap	1.8	10	-	-	0	2.3	1	cy1	2.1	1.3		
21	1	1	05413	Sassafras albidum	sap	-	10	-	-	0	1.6	1	-	1.3	-		
21	1	1	05414	Sassafras albidum	sap	-	-	-	-	-	-	8	-	-	-		
21	1	1	05415	Acer rubrum	smt	1.5	130	-	-	0	2.8	1	-	-	-		
21	1	1	05416	Nyssa sylvatica	smt	2.7	130	-	-	0	3.2	1	-	-	-		
21	1	1	05417	Nyssa sylvatica	smt	1.0	130	-	-	0	2.1	1	-	-	-		
21	1	1	05418	Nyssa sylvatica	smt	-	10	-	-	0	1.3	1	-	1.2	-		
21	1	1	05420	Oxydendrum arboreum	smt	-	10	-	-	0	1.1	1	-	2.2	-		
21	1	1	05421	Acer rubrum	mbt	15.5	130	-	-	-3.7	11.4	1	-	-	-		
21	1	1	05422	Nyssa sylvatica	smt	2.1	10	-	-	0	1.5	1	hsp	1.6	1.4		
21	1	1	05423	Nyssa sylvatica	smt	1.4	130	-	-	0	2.4	1	-	-	-		
21	1	1	05424	Cornus florida	smt	1.1	130	-	-	-	2.0	1	-	-	-		
21	1	1	05425	Acer rubrum	sap	-	10	-	-	0	1.9	1	-	1.3	-		
21	1	1	05426	Acer rubrum	sbt	23.9	130	-	-	-2.0	18.3	1	-	-	-		
21	1	1	05427	Nyssa sylvatica	smt	32.0	130	-	-	0	3.3	1	-	-	-		
21	1	1	05428	Acer rubrum	sbt	17.0	130	-	-	-3.3	14.6	1	-	-	-		
21	1	1	05429	Acer rubrum	sbt	31.8	130	-	-	-3.1	19.5	1	-	-	-		
21	1	1	05430	Nyssa sylvatica	smt	-	10	-	-	0	1.8	1	-	1.3	-		
21	1	1	05431	Nyssa sylvatica	smt	1.4	130	-	-	0	2.2	1	-	-	-		
21	1	1	05433	Fagus grandifolia	smt	1.1	130	-	-	0	3.5	1	-	-	-		

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sub plot ID	nested Subplot t ID	tagID	species	growth form	stem Diameter (cm)	measurment Height (cm)	canopy diameter Max	canopy diameter 90	heightVD1	heightVD2	stem Status	shrub shape	BaseMax Can diam	Base 90 canopy
21	1	05434	Fagus grandifolia	smt	4.5	130	—	—	-0.7	5.3	1	—	—	—
21	1	05435	Nyssa sylvatica	smt	1.5	130	—	—	0	2.8	1	—	—	—
21	2	05436	Quercus montana	sbt	16.3	130	—	—	-3.2	12.5	1	—	—	—
21	—	05444	Nyssa sylvatica	smt	—	—	—	—	—	—	—	—	—	—
21	2	05445	Oxydendrum arboreum	sbt	—	—	—	—	—	—	2	—	—	—
21	—	05447	Acer rubrum	sap	—	—	—	—	—	—	—	—	—	—
21	2	05448	Quercus montana	sbt	47.0	130	—	—	-1.0	26.2	1	—	—	—
21	2	05449	Liriodendron tulipifera	sbt	38.8	130	—	—	-2.9	24.7	1	—	—	—
21	2	05450	Quercus alba	sbt	26.2	130	—	—	-3.0	19.0	1	—	—	—
21	4	05453	Nyssa sylvatica	sap	—	10	—	—	0	1.3	1	—	1.4	—
21	4	05454	Nyssa sylvatica	smt	2.1	130	—	—	0	2.5	1	—	—	—
21	—	05455	Acer rubrum	sbt	10.3	130	—	—	-2.5	10.0	1	—	—	—
21	—	05463	Acer rubrum	sap	—	—	—	—	—	—	8	—	—	—
21	2	05464	Oxydendrum arboreum	sbt	14.5	130	—	—	-1.1	11.2	1	—	—	—
21	2	05465	Quercus montana	mht	37.4	130	—	—	-1.0	25.8	1	—	—	—
21	2	5465A	Quercus montana	mht	15.3	130	—	—	—	—	2	—	—	—
21	—	05474	Acer rubrum	sap	—	—	—	—	—	—	8	—	—	—
21	4	05475	Acer rubrum	smt	1.5	130	—	—	0	2.4	1	—	—	—
21	4	05476	unknown	mht	17.7	130	—	—	-1.4	14.7	2	—	—	—
21	—	05477	Nyssa sylvatica	smt	—	—	—	—	—	—	8	—	—	—
21	4	05478	Fagus grandifolia	sap	—	10	—	—	0	1.6	1	—	1.8	—
21	4	05479	Nyssa sylvatica	smt	5.7	130	—	—	-1.3	3.4	1	—	—	—
21	4	05480	Oxydendrum arboreum	sap	—	10	—	—	0	1.7	1	—	3.3	—
21	4	05481	Nyssa sylvatica	smt	7.5	130	—	—	-1.5	4.2	1	—	—	—
21	4	05482	Nyssa sylvatica	sap	—	10	—	—	0	0.8	1	—	1.1	—

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Vegetation Structure Datasheets SOP C: Biomass and Productivity- Apparent Individuals

PlotID	ORNL_062			measuredBy	recordedBy	nestedSubplotArea lianas	Nore						
date	20151120			D.Mitchell, K.J. Jureau	M. Cumberland	nestedSubplotArea							
YYMMDD							sapling, shrub, small tree						
sub plot ID	nested Subplot ID	tagID	species	growth form	stem Diameter (cm)	measured ent Height (cm)	canopy Position	heightVD1	heightVD2	stem Status	shrub shape	BaseMax Can diam	Base 90 canopy
21	1	03099	Nyssa sylvatica	smt	4.0	130	-	0	2.8	2	-	-	-
21	1	03100	Quercus montana	mht	32.5	130	3	-4.7	18.0	1	-	-	-
21	1	3100A	Quercus montana	mht	31.1	130	3	-4.7	18.0	1	-	-	-
21	1	03101	Acer rubrum	mht	12.8	135	4	-5.0	8.8	1	-	-	-
21	1	03102	Oxydendrum arboreum	smt	9.2	130	-	-4.1	5.9	1	-	-	-
21	1	03103	Quercus coccinea	smt	29.5	130	3	-3.9	17.1	1	-	-	-
21	1	3103A	Quercus coccinea	mht									
21	1	03104	Fagus grandifolia	sap	1.1	10	-	0	0.6	1	-	-	-
21	1	03105	Oxydendrum arboreum	sap	1.1	10	-	0	1.1	1	-	-	-
21	1	03106	Oxydendrum arboreum	smt	2.1	119	-	0	1.3	1	-	-	-
21	1	03107	Nyssa sylvatica	smt	3.0	130	-	0	2.4	1	-	-	-
21	1	03108	Quercus montana	sbt	36.1	130	3	-3.0	19.0	1	-	-	-
21	1	03109	Nyssa sylvatica	smt	4.1	130	-	0	3.7	1	-	-	-
21	1	03110	unknow Quercus sp	sbt	23	130	4	-3.7	11.0	2	-	-	-
21	1	03111	Oxydendrum arboreum	sbt	14.3	139	4	-4.7	19.2	1	-	-	-
21	1	03112	Oxydendrum arboreum	smt	7.3	130	-	-5.0	1.9	1	-	-	-
21	1	03113	Acer rubrum	sbt	13.2	130	4	-4.5	11.4	1	-	-	-
21	1	03114	Oxydendrum arboreum	sap	1.8	110	-	0	0.7	1	-	-	-
21	3	03115	Nyssa sylvatica	smt	2.8	130	-	-1.9	1.6	1	-	-	-
21	3	03116	Fagus grandifolia	sap	1.8	110	-	0	0.9	1	-	-	-
21	3	03117	Nyssa sylvatica	smt	1.8	130	-	0	2.1	1	-	-	-

13.2

sub plot ID	nested Subplot ID	tagID	species	growth form	stem Diameter (cm)	measurment Height (cm)	canopy Position	heightVD1	heightVD2	stem Status	shrub shape	BaseMax Can diam	Base 90 canopy
21	3	03118	Nyssa sylvatica	smt	3.7	130	-	0	3.3	1	-	-	-
21	4	03119	Quercus velutina	mht	26.2	130	3	-4.1	18.1	1	-	-	-
21	4	3119A	Quercus velutina	mht	28.1	139	3	-4.1	18.1	1	-	-	-
21	3	03120	Quercus montana	sbt	17.3	139	4	-4.3	19.9	1	-	-	-
21	3	03121	Acer rubrum	sbt	14.4	139	4	-3.9	10.1	1	-	-	-
21	3	03122	Oxydendrum arboreum	sap	2.5	10	-	0	1.5	1	-	-	-
21	3	03123	Vaccinium corymbosum	sap	1.4	10	-	0	1.3	1	hsp	1.8	1.4
21	3	03124	Vaccinium corymbosum	sms	1.1	10	-	0	1.3	1	hsp	1.8	1.4
21	3	03124	Vaccinium corymbosum	sms	1.0	10	-	0	1.3	1	hsp	1.8	1.4
21	3	03125	Vaccinium corymbosum	sap	1.0	10	-	0	1.3	1	hsp	1.8	1.4
21	3	03126	Quercus montana	sbt	20.8	130	3	-4.5	18.3	1	-	-	-
21	3	03127	Quercus velutina	sbt	29.9	130	3	-5.6	16.8	1	-	-	-
21	3	03128	Quercus montana	sbt	21.7	130	3	-5.6	16.1	1	-	-	-
21	3	03129	Acer rubrum	sbt	13.3	139	4	-5.6	9.3	1	-	-	-
21	3	03130	Acer rubrum	sbt	11.2	139	4	-5.3	9.5	1	-	-	-
21	3	03131	Oxydendrum arboreum	sap	1.8	10	-	0	1.3	1	-	-	-
21	3	03132	Nyssa sylvatica	smt	3.7	130	-	0	2.0	1	-	-	-
21	3	03133	Nyssa sylvatica	smt	4.2	130	-	0	2.5	1	-	-	-
21	3	03134	Quercus velutina	mht	30.7	130	3	-4.1	20.4	1	-	-	-
21	3	3134A	Quercus velutina	mht	33.6	130	3	-4.1	20.4	1	-	-	-
21	4	03135	Quercus montana	sbt	12.8	130	4	-4.2	11.8	1	-	-	-
21	4	03136	Oxydendrum arboreum	smt	1.7	130	-	0	1.9	1	-	-	-
21	4	03137	Oxydendrum arboreum	smt	9.6	139	-	-3.5	2.1	1	-	-	-
21	4	03138	Oxydendrum arboreum	sbt	12	130	4	-3.8	5.1	1	-	-	-
21	4	03139	Quercus montana	mht	33.2	130	3	-3.2	22.0	1	-	-	-

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Vegetation Structure Datasheets SOP C: Biomass and Productivity- Apparent Individuals

PlotID	ORNL_036				measuredBy	nestedSubplotArea lianas								
date	20151210				recordedBy	nestedSubplotArea								
YYMMDD	STHOMASON				sapling, shrub, small tree									
sub plot ID	nested Subplot ID	tagID	species	growth form	stem Diameter (cm)	measure ment Height (cm)	canopy diameter Max	canopy diameter 90	heightVD1	heightVD2	stem Status	shrub shape	BaseMax Can diam	Base 90 canopy
21	3	00001	Acer rubrum	smt	4.6	130	-	-	-3.9	3.4	1	-	-	-
21	3	00002	Quercus montana	sbt	59.9	130	-	-	-4.0	29.9	1	-	-	-
21	3	00003	Acer saccharum	sbt	10.9	130	-	-	-5.3	7.1	1	-	-	-
21	1	00004	Acer saccharum	sbt	32.8	130	-	-	-2.0	18.4	1	-	-	-
21	3	00005	Acer rubrum	smt	2.9	130	-	-	Ø	4.4	1	-	-	-
21		00006	Cornus-florida	smt										
21	3	00007	Acer rubrum	smt	6.1	130	-	-	-2.7	2.3	1	-	-	-
21	1	00008	Nyssa sylvatica	smt	4.2	130	-	-	Ø	3.4	1	-	-	-
21	3	00009	Acer rubrum	sbt	3.5	130	3.9	3.2	Ø	4.3	1	cl	4.8	-
21	3	00010	Acer rubrum	sbt	9.4	130	5.4	5.3	-4.1	9.2	1	cl	11.5	-
21	1	00011	Acer rubrum	sbt	2.5	130	3.4	2.1	Ø	4.1	1	cl	3.7	-
21	3	00012	Acer rubrum	sbt	10.6	130	-	-	-4.5	8.1	1	-	-	-
21	1	00013	Quercus montana	sbt	47.2	130	-	-	-4.1	29.6	1	-	-	-
21	4	00014	Oxydendrum arboreum	sap	-	10	1.9	1.0	Ø	1.2	1	hms	1.5	-
21	4	00015	Acer rubrum	sbt	13.0	130	-	-	-4.0	9.8	1	-	-	-
21		0015A	Acer-rubrum	sbt										
21	4	00016	Quercus montana	sbt	79.5	130	-	-	-3.8	31.8	1	-	-	-
21	4	00017	Acer rubrum	smt	8.8	130	-	-	-3.4	5.6	1	-	-	-
21	9	00018	Cornus florida	smt	5.7	130	-	-	-5.9	1.2	1	-	-	-
21	1	00019	Acer rubrum	smt	2.3	130	-	-	Ø	2.6	1	-	-	-
21	1	00020	Quercus rubra	sbt	77.	130	-	-	-4.3	26.0	1	-	-	-

sub plot ID	nested Subplot ID	tagID	species	growth form	stem Diameter (cm)	measure ment Height (cm)	canopy diameter Max	canopy diameter 90	heightVD1	heightVD2	stem Status	shrub shape	BaseMax Can diam	Base 90 canopy
21	4	00021	Cornus florida	smt	7.4	130	-	-	-3.5	4.2	1	-	-	-
21	4	00022	Quercus montana	sbt	80.4	130	-	-	-3.7	29.5	1	-	-	-
21	1	00023	Nyssa sylvatica	sbt	21.7	130	-	-	-2.3	11.9	1	-	-	-
21	2	00024	Acer rubrum	smt	3.7	130	-	-	Ø	3.7	1	-	-	-
21	4	00025	Nyssa sylvatica	sbt	17.8	130	-	-	-2.2	10.1	1	-	-	-
21	1	00026	Acer rubrum	smt	6.3	130	-	-	-2.5	4.1	1	-	-	-
21	2	00027	Nyssa sylvatica	smt	6.8	130	-	-	-2.1	3.9	1	-	-	-
21	-	00028	Cornus florida	smt	-	-	-	-	-	-	-	-	-	-
21	2	00029	Acer rubrum	smt	5.8	130	-	-	-1.0	7.1	1	-	-	-
21	2	00030	Cornus florida	smt	4.6	130	-	-	Ø	3.7	2	-	-	-
21	1	00031	Acer rubrum	smt	1.4	130	-	-	Ø	2.8	1	-	-	-
21	2	00032	Acer saccharum	sbt	49.0	130	-	-	-4.4	20.8	1	-	-	-
21	2	00033	Nyssa sylvatica	smt	6.5	130	-	-	Ø	6.0	1	-	-	-
39	-	00134	Toxicodendron radicans	lia	-	-	-	-	-	-	8	-	-	-
39	-	00135	Toxicodendron radicans	lia	-	-	-	-	-	-	8	-	-	-
39	3	00136	Acer saccharum	smt	4.3	130	-	-	Ø	4.6	1	-	-	-
39	3	00137	Acer saccharum	smt	4.1	130	-	-	-3.5	2.6	1	-	-	-
39	3	00138	Quercus montana	sbt	60.1	130	-	-	-4.2	27.9	1	-	-	-
39	3	00139	Acer saccharum	sbt	9.2	130	-	-	-4.3	5.0	1	-	-	-
39	3	00140	Nyssa sylvatica	sbt	26.5	130	-	-	-3.2	10.0	1	-	-	-
39	3	00141	Acer saccharum	smt	6.9	130	-	-	-3.5	5.5	1	-	-	-
39	3	00142	Acer saccharum	smt	7.2	130	-	-	-3.6	4.8	1	-	-	-
39	-	00143	unknown	smt	-	-	-	-	-	-	-	-	-	-
39	3	00144	Acer saccharum	smt	8.3	130	-	-	-4.0	5.0	1	-	-	-
39	-	00145	Acer saccharum	smt	6.4	130	-	-	-3.2	6.0	1	-	-	-

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Vegetation Structure Datasheets SOP C: Biomass and Productivity- Apparent Individuals

PlotID	ORNL_063				measuredBy	DMitchell				nestedSubplotArea	lianas				
date	20151208				recordedBy	SThomas				nestedSubplotArea	100m				
sub plot ID	nested Subplot ID	tagID	species	growth form	stem Diameter (cm)	measure ment Height (cm)	canopy Position	canopy diameter Max	canopy diameter 90	heightVD1	heightVD2	* stem Status	shrub shape	BaseMax Can diam	Base 90 canopy
23	2	08681	Acer rubrum	sbt	20.3	130	1			-2.4	9	1			
23	2	08682	Prunus serotina	sbt	25.8	130	1			-1.5	16.8	1			
23	2	08683	Acer rubrum	sbt	23.1	130	1			-1.5	13.0	1			
23	2	08684	Liriodendron tulipifera	sbt	57.5	130	1			-2.1	26.8	1			
23	2	08685	Acer rubrum	sbt	~13	130	1			-2.2	16.1	1			
23	4	08686	Carya tomentosa	smt	80	130				0	3.4	1			
23		08687	Asimina triloba	sap								8			
23		08688	Asimina triloba	sap											
23		08689	Asimina triloba	sap											
23		08690	Asimina triloba	sap											
23		08691	Asimina triloba	sap											
23		08692	Asimina triloba	sap											
23		08693	Asimina triloba	smt											
23	2	08694	Asimina triloba	sap	-	10				0	1.3	1		1.1	
23	2	08695	Asimina triloba	sap	-	10				0	1.1	1		1.4	
23		08696	Asimina triloba	sap											
23	2	08697	vitis	lia	4.6	130				-	-	1			
23	4	08698	Carpinus caroliniana	smt	-	10				0	1.8	1		1.4	
23	4	08699	Carpinus caroliniana	sap	-	10				0	1.5	1		1.8	
23	4	08700	Carpinus caroliniana	sap	-	10				0	1.4	1		1.4	

sub plot ID	nested Subplot ID	tagID	species	growth form	stem Diameter (cm)	measure ment Height (cm)	canopy Position	canopy diameter Max	canopy diameter 90	heightVD1	heightVD2	stem Status	shrub shape	BaseMax Can diam	Base 90 canopy
23	4	08701	Oxydendrum arboreum	sap	—	10				0	2.2	1		2.0	
23	4	08702	Carpinus caroliniana	sap ^{smt}	1.6	130				0	2.8	1			
23	4	08703	Fagus grandifolia	smt	2.3	130				0	4.2	1			
23	4	08704	Carpinus caroliniana	sap ^{smt}	1.1	130				0	2.1	1			
23	4	08705	prunus serotina	sbt	1.7	130				-2.4	13.0	1			
23	4	08706	Carpinus caroliniana	sap ^{smt}	1.2	130				0	2.1	1			
23	4	08707	Carpinus caroliniana	sap	1.2	10				0	1.5	1			
23	4	08708	Prunus serotina	smt	1.5	130				0	2.8	1			
23	4	08709	Carpinus caroliniana	smt	1.3	130				0	2.9	1			
23	4	08710	Carpinus caroliniana	smt	2.0	130				0	2.9	1			
23	4	08711	Nyssa sylvatica	sap	—	10				0	1.4	1		1.3	
23	4	08712	Acer rubrum	sbt	25.5	130				-2.9	21.7	1			
23	4	08713	Carpinus caroliniana	smt	2.5	130				0	3.5	1			
23		08714	Acer rubrum	smt											
23	3	08715	Fagus grandifolia	sbt ^{smt}	10.0	130				-3.1	4.2	1			
23		08716	Acer rubrum	smt											
23		08717	Carya tomentosa	smt											
23	3	08718	Prunus serotina	sbt	40.0	130				-2.2	19.2	1			
23	3	08719	Liriodendron tulipifera	sbt	15.6	130				-2.5	15	1			
23	3	08720	Cornus florida	sbt ^{smt}	16.4	130				-3.0	5.0	1			
23	1	08721	Oxydendrum arboreum	sbt	13.8	130				-1.2	14.0	1			
23	3	08722	Liriodendron tulipifera	sbt	56.5	130				-3.0	25.4	1			
23	1	08723	Acer rubrum	mbt	21.4	130				-1.8	14	1			
23	1	8723A	Acer rubrum	mbt	19.2	130				—	—	1			

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Vegetation Structure Datasheets SOP C: Biomass and Productivity- Apparent Individuals

PlotID	ORNL_055				measuredBy	nestedSubplotArea lianas									
date	2015 1120				recordedBy	nestedSubplotArea									
YYMMDD					M. Cumberland	sapling, shrub, small tree									
sub plot ID	nestID	tagID	species	growth form	stem Diameter (cm)	measure ment Height (cm)	canopy Positio n	canopy diameter Max	canopy diameter 90	heightVD 1	heightVD 2	stem Status	shrub shape	BaseMax Can diam	Base 90 canopy
21	1	03360	Fagus grandifolia	smt	9.8	130	-	-	-	-3.1	6.0	1	-	-	-
21	1	03361	Fagus grandifolia	smt	9.3	130	-	-	-	-2.7	8.0	1	-	-	-
21	1	03362	Fagus grandifolia	sap	1.5	10	-	-	-	0	2.1	1	-	-	-
21		03363	unknown	smt											
21	1	03364	Fagus grandifolia	smt	6.9	130	-	-	-	-1.0	6.0	1	-	-	-
21	1	03365	Acer rubrum	sbt	20.2	130	4	-	-	-3.0	13	1	-	-	-
21	1	03367	Acer saccharum	smt	4.0	130	-	-	-	-2.4	4.0	1	-	-	-
21	1	03368	Fagus grandifolia	smt	1.0	130	-	-	-	0	2.3	1	-	-	-
21	1	03369	Fagus grandifolia	smt	1.4	130	-	-	-	0	3.7	1	-	-	-
21	1	03370	Acer sp unknown	smt	2.1	130	-	-	-	0	3.9	1	-	-	-
21	1	03371	Fagus grandifolia	sbt	13.7	130	4	-	-	-2.8	7.9	1	-	-	-
21	1	03372	Acer saccharum	smt	6.5	130	-	-	-	-3.7	5.1	1	-	-	-
21	1	03373	Acer saccharum	smt	6.0	130	-	-	-	-4.0	3.1	1	-	-	-
21	2	03374	Quercus montana	smt	43.9	130	3	-	-	-4.3	28	1	-	-	-
21	1	03375	Fagus grandifolia	smt	9.9	130	-	-	-	-4.0	8	1	-	-	-
21	1	03376	Oxydendrum arboreum	sbt	25.3	130	4	-	-	-4.4	8.9	1	-	-	-
21	2	03385	unknown	sbt	45.5	130	4	-	-	-3.2	12	2	-	-	-
21		03389	unknown	smt											
21	2	03391	Carya glabra	sbt	16.8	130	4	-	-	-3.7	10	1	-	-	-
21	4	03397	Carpinus caroliniana	smt	8.5	130	-	-	-	-5.5	3	1	-	-	-

100m²

-8.4

sub plot ID	neste d Subpl at ID	tagID	species	growth form	stem Diameter (cm)	measure ment Height (cm)	canopy Positio n	canopy diameter Max	canopy diameter 90	heightVD 1	heightVD 2	stem Status	shrub shape	BaseMax Can diam	Base 90 canopy
21	4	03398	Fagus grandifolia	smt	5.8	130	-	-	-	-6.3	4.0	1	-	-	-
21	4	03399	Fagus grandifolia	sbt	10.2	130	4	-	-	-9.5	6.3	1	-	-	-
21	4	03400	Fagus grandifolia	sbt	15.3	130	4	-	-	-8.4	6.3	1	-	-	-
21	4	03403	Acer saccharum	smt	3.1	130	-	-	-	0	5.5	1	-	-	-
21	4	03404	Acer unknown sp	smt	1.8	130	-	-	-	-2.2	2.2	1	-	-	-
21	4	03405	Acer saccharum	smt	3.0	130	-	-	-	-3.7	0	2	-	-	-
21	4	03406	Acer saccharum	smt	2.7	130	-	-	-	0	4.3	1	-	-	-
21	4	03407	Fagus grandifolia	smt	1.2	130	-	-	-	0	3.2	1	-	-	-
21	4	03408	Fagus grandifolia	smt	1.0	130	-	-	-	0	2.0	1	-	-	-
21	4	03409	Fagus grandifolia	sap	1.5	10	-	-	-	0	3.1	1	-	-	-
21	4	03411	Fagus grandifolia	smt	7.3	130	-	-	-	-5.2	0	1	-	-	-
21	4	03412	Fagus grandifolia	smt	5.3	130	-	-	-	-5	2.0	1	-	-	-
21	4	03413	Fagus grandifolia	smt	3.5	130	-	-	-	-4.0	0	1	-	-	-
21	4	03414	Acer saccharum	sbt	41.6	130	3	-	-	-3.0	16	1	-	-	-
21	3	03415	Liriodendron tulipifera	sbt	57.3	130	3	-	-	-3.2	33.0	1	-	-	-
21	3	03416	Fagus grandifolia	sbt	18.5	130	4	-	-	-4.1	9.0	1	-	-	-
21	1	03419	Liriodendron tulipifera	sbt	56.4	130	3	-	-	-4.7	2.9	1	-	-	-
21	1	03420	Fagus grandifolia	smt	8.1	130	-	-	-	-4.0	8.1	1	-	-	-
21	1	03421	Acer saccharum	smt	6.7	130	-	-	-	-5.6	5.0	1	-	-	-
21	1	03422	Liriodendron tulipifera	sbt	42.5	130	3	-	-	-5.7	3.0	1	-	-	-
21	1	03423	Toxicodendron radicans	lia	1.2	130	-	-	-	-	-	1	-	-	-
21	1	03424	Liriodendron tulipifera	sbt	55.1	130	3	-	-	-5.8	2.8	1	-	-	-
21	1	03425	Toxicodendron radicans	lia	5.4	130	-	-	-	-	-	1	-	-	-
21	1	03430	Toxicodendron radicans	lia	5.3	130	-	-	-	-	-	1	-	-	-

4.4

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Vegetation Structure Datasheets SOP C: Biomass and Productivity- Apparent Individuals

PlotID	ORNL_001				measuredBy	D. Mitchell, C. Sureau				nestedSubplotArea lianas					
date	2015/1/2				recordedBy	M. Cumberland				nestedSubplotArea	10m2				
YYMMDD									sapping, shrub, small tree						
sub plot ID	nest ed Sub plot	tagID	species	grow th form	stem Diameter (cm)	measure ment Height (cm)	canopy Position	canopy diameterMa x	canopy diameter9 0	heightVD1	heightVD 2	stem Status	shrub shape	BaseMa x Can diam	Base 90 canopy
31	01	01546	Fagus grandifolia	smt	2.8	130	-	-	-	0	3.6	1	-	-	-
31	01	01547	Liquidambar styraciflua	smt	3.6	130	-	-	-	0	4.3	1	-	-	-
31	01	01548	Liquidambar styraciflua	smt	3.8	130	-	-	-	-1.2	3.7	1	-	-	-
31	01	01549	Quercus coccinea	sbt	2.9	130	3	8.9	6.9	-1.3	16.2	1	-	-	-
31	01	01550	Ostrya virginiana	sap	1.1	10	-	-	-	0	1.1	1	-	-	-
31	01	01552	Juniperus virginiana	smt	2.5	130	-	-	-	0	2.9	1	-	-	-
31	01	01554	Fagus grandifolia	sap	1.5	10	-	-	-	0	2.5	1	-	-	-
31	01	01555	Liquidambar styraciflua	smt	2.8	130	-	-	-	0	4.7	1	-	-	-
31	01	01558	Pinus echinata	sbt	4.1.7	130	2	8.3	7.8	-1.9	16.9	1	-	-	-
31	01	01560	Quercus coccinea	sbt	2.9.5	130	3	10.2	8.5	-1.6	17.1	1	-	-	-
31	01	01561	Oxydendrum arboreum	sbt	1.6.5	130	4	6.9	4.1	-2.2	9.3	1	-	-	-
31	04	01562	Quercus alba	sbt	12.5	130	4	4.0	2.8	-1.9	8.6	1	-	-	-
31	04	01563	Pinus echinata	sbt	4.8.5	130	2	15.1	12.1	-2.3	19.2	1	-	-	-
31	04	01564	Liquidambar styraciflua	sbt	1.5	130	4	6.5	5.4	-2.2	9.5	1	-	-	-
31	04	01565	Fagus grandifolia	smt	1.1	130	-	-	-	0	2.5	1	-	-	-
31	04	01566	Fraxinus pennsylvanica	sap	1.0	10	-	-	-	0	1.2	1	-	-	-
31	04	01567	Juniperus virginiana	sap	1.1	10	-	-	-	0	1.6	1	-	-	-
31	04	01568	Juniperus virginiana	sap	1.5	10	-	-	-	0	1.4	1	-	-	-
31	04	01569	Juniperus virginiana	sap	1.0	10	-	-	-	0	0.9	1	-	-	-
31	04	01570	unknown	smt	2.1	130	-	-	-	0	4.7	1	-	-	-
31	04	01571	Liquidambar styraciflua	smt	1.2	130	-	-	-	0	2.6	1	-	-	-

15, 12.1

26.4

1.2

7.6

13, 7 12.7

sub plot ID	nest ed Sub plot	tagID	species	grow th form	stem Diameter (cm)	measure ment Height (cm)	canopy Position	canopy diameterMa x	canopy diameter9 0	heightVD1	heightVD 2	stem Status	shrub shape	BaseMa x Can diam	Base 90 canopy
32	02	01572	Liquidambar styraciflua	sap	1.1	19	-	-	-	0	1.5	1	-	-	-
32	02	01573	Fagus grandifolia	smt	1.2	130	-	-	-	0	2.5	1	-	-	-
32	02	01574	Quercus alba	smt	8.6	130	-	-	-	-2.1	6.0	1	-	-	-
32	02	01575	Quercus coccinea	sbt	4.2	130	2	18.6	9.3	-1.8	22.3	1	-	-	-
32	02	01577	Acer rubrum	smt	2.1	130	-	-	-	0	4.4	1	-	-	-
32	02	01578	Acer rubrum	smt											
32	02	01578A	Acer rubrum	smt											
32	02	01579	Vaccinium arboreum	smt	2.6	130	-	2.4	2.1	0	1.9	1	cyl	4.0	-
32	02	01581	Acer rubrum	SBT	28.4	130	3	8.7	7.6	-1.8	17.1	1	-	-	-
32	04	01587	unknown	mht	18.2	130	4	9.1	0	-1.5	6.0	2	-	-	-
32	04	1587A	unknown	mht	13	130	4	9.1	0	-1.5	6.0	2	-	-	-
32	04	01588	Toxicodendron radicans	lia	3.6	130	-	-	-	-	-	+	-	-	-
32	04	01589	Liriodendron tulipifera	sbt	10.6	130	4	4.5	2.9	-1.4	10	1	-	-	-
32	04	01590	unknown	smt	1.3	130	-	-	-	0	1.8	2	-	-	-
32	04	01591	unknown	smt	1.2	130	-	-	-	0	1.4	2	-	-	-
32	02	01592	Fagus grandifolia	sbt	12.3	130	4	9.0	7.5	-2.3	7.7	1	-	-	-
32	32	01593	unknown	sbt	1.2	10	-	-	-	0	1.4	1	-	-	-
40	2	01594	unknown	sbt	19.3	130	4	2.9	1.3	-1.3	9.4	2	-	-	-
40	2	01595	Quercus stellata	sbt	49.6	130	3	13.7	12.7	-1.0	24.4	1	-	-	-
40	02	01596	Nyssa sylvatica	smt	8.5	130	-	-	-	-0.9	10.1	1	-	-	-
40	02	01597	Ostrya virginiana	smt	3.2	130	-	-	-	-1.0	6.4	1	-	-	-
40	02	01598	Acer rubrum	smt	1.2	130	-	-	-	0	2.2	1	-	-	-
40	02	01599	unknown	smt											
40	02	01600	Acer rubrum	sap	1.6	10	-	-	-	0	1.3	1	-	-	-
40	02	01601	Ostrya virginiana	sap	1.3	10	-	-	-	6	1.9	1	-	-	-

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Vegetation Structure Datasheets SOP C: Biomass and Productivity- Apparent Individuals

PlotID	ORNL_003				measuredBy	D.M. 11/1/2016				nestedSubplotArea	None				
date	20151105				recordedBy	A. Gumbel				nestedSubplotArea	25 m2				
YYMMDD									sapling, shrub, small tree						
sub plot ID	nested Subplot ID	tagID	species	grow th form	stem Diameter (cm)	measurment Height (cm)	canopy Position	canopy diameter Max	canopy diameter 90	heightVD 1	heightVD 2	stem Status	shrub shape	BaseMax Can diam	Base 90 canopy
31	1	00762	Obetia virginiana	SMT	7.6	130	-	-	-	-1.5	4.1	1	-	-	-
31	1	00764	Elaeagnus umbellata	SAP SMS	1.8	10	-	-	-	0	1.4	1	-	-	-
31		00764	Elaeagnus-umbellata	SMS											
31		00764	Elaeagnus umbellata	SMS											
31	1	00765	Liquidambar styraciflua	SBT	16.1	130	4	6.9	4.9	-2.9	8.4	1	-	-	-
31	1	00767	Carya tomentosa	SBT	4.4	130	3	11.1	9.6	-2.6	24.2	1	-	-	-
31	1	00769	Acer saccharum	SMT	6.7	120	-	-	-	-2.0	3.2	1	-	-	-
31	1	00770	Elaeagnus umbellata	SIS	1.5	130	4	2.8	-	0	3.0	1	hsp	3.1	2.3
31	1	00771	Elaeagnus umbellata	SMS	1.8	10	-	-	-	0	1.35	1	hsp	0.9	0.5
31	1	00771	Elaeagnus umbellata	SMS	1.2	10	-	-	-	0	1.35	1	hsp	"	"
31	1	00771	Elaeagnus umbellata	SMS	1.2	10	-	-	-	0	1.35	1	hsp	"	"
31	3	00773	Fagus grandifolia	SAP	2.1	10	-	-	-	0	1.3	1	-	-	-
31	3	00774	Ulmus alata Ostrya virginiana	SMT	5.2	130	-	-	-	-0.7	3.2	1	-	-	-
31		00775	Prunus serotina	SAP											
31	3	00777	Fagus grandifolia Cercis canadensis	SAP	1.0	10	-	-	-	0	1.3	1	-	-	-
31	1	00779	Fagus grandifolia	SMT	9.7	130	-	-	-	-1.7	6.6	1	-	-	-
31	3	00780	Cercis canadensis	SMT	9.5	130	-	-	-	0.1	4.7	1	-	-	-
31	3	00781	Cercis canadensis	SMT	1.7	130	-	-	-	0	1.2	1	-	-	-
31	3	00783	Elaeagnus umbellata	SMS	1.7	10	-	-	-	0	2.2	1	hsp	3.1	2.2
31	3	00783	Elaeagnus umbellata	SMS	1.1	10	-	-	-	0	2.2	1	hsp	3.1	2.2
31	3	00783	Elaeagnus umbellata	SMS	1.2	10	-	-	-	0	2.2	1	hsp	3.1	2.2

sub plot ID	nested Subplot ID	tagID	species	grow th form	stem Diameter (cm)	measur ent Height (cm)	canopy Positio n	canopy diameter Max	canopy diameter9 0	heightVD 1	heightVD 2	stem Status	shrub shape	BaseMax Can diam	Base 90 canopy
31	3	00784	Prunus serotina	SMT	8.8	130	-	-	-	-9.5	4.2	6	-	-	-
31	3	00788	unknown <i>Juniperus virginiana</i>	SBT	16.7	130	4	-	-	-1.2	6.0	2	-	-	-
31	3	00789	Quercus alba	SBT	60.3	130	2	19.1	13.6	-3.9	24.5	1	-	-	-
31	4	00792	<i>Acer saccharum</i> <i>minus alata</i>	SMT	3.5	130	-	-	-	-2.0	1.4	1	-	-	-
31	4	00793	<i>Ostrya virginiana</i>	SMT	3.7	130	-	-	-	0	1	1	-	-	-
31	4	00794	Acer saccharum	SMT	5.0	130	-	-	-	0	.9	1	-	-	-
31		00795	Acer saccharum	SMT											
40	1	00796	Fagus grandifolia	SMT	6.2	130	-	-	-	-1.2	5.3	1	-	-	-
40	1	00797	Acer saccharum	SMT	6.1	130	-	-	-	-1.1	4.7	1	-	-	-
40		00798	unknown	SBT											
40	1	00799	Fagus grandifolia	SMT	1.5	130	-	-	-	-2.1	-0.6	1	-	-	-
40	1	00800	Fagus grandifolia	SBT	21.3	130	3	10.5	7.2	-3.6	7.1	1	-	-	-
40	1	00802	Fagus grandifolia	SMT	1.8	130	-	-	-	0	2.3	1	-	-	-
40	1	00803	Fagus grandifolia	SAP	1.3	10	-	-	-	0	1.2	1	-	-	-
40		00804	Fagus grandifolia	SMT											
40	2	00805	Cercis canadensis	SBT	11.9	130	4	1.5	0.5	-2.3	1.5	1	-	-	-
40	1	00806	Liquidambar styraciflua	SMT	2.4	130	-	-	-	-1.4	1.9	1	-	-	-
40	1	00807	Acer saccharum	SMT	3.8	130	-	-	-	-1.6	6.1	1	-	-	-
40	1	00810	Acer saccharum	SMT	6.6	130	-	-	-	0	1.8	1	-	-	-
40	2	00811	Fagus grandifolia	SMT	1.6	130	-	-	-	-1.8	2.1	1	-	-	-
40	3	00813	Viburnum Ruridulum	SMT	1.9	130	-	-	-	-1.8	0.8	1	-	-	-
40	3	00814	Acer saccharum	SMT	1.3	130	-	-	-	0	2.35	1	-	-	-
40	3	00815	Cornus Florida	SMT	6	130	-	-	-	-1.9	5.1	1	-	-	-
40	3	00816	Acer rubrum	SMT	1.1	130	-	-	-	0	2.25	1	-	-	-
40	3	00817	Cercis canadensis	SMT	8.5	130	-	-	-	-1.2	7.7	1	-	-	-

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Vegetation Structure Datasheets SOP C: Biomass and Productivity- Apparent Individuals

PlotID	ORNL_004				measuredBy	nestedSubplotArea lianas									
date		recordedBy		nestedSubplotArea											
YYMMDD		M. Campbell		sapling, shrub, small tree											
sub plot ID	nested Subplot ID	tagID	species	grow th form	stem Diameter (cm)	measurment Height (cm)	canopy Position	canopy diameterM ax	canopy diameter90	heightVD 1	heightVD 2	stem Status	shrub shape	BaseMax Can diam	Base 90 canopy
31	1	00956	Oxydendrum arboreum	SBT	12.7	130	4	8.2	2.7	-2.6	5.0	1	-	-	-
31	1	00957	Oxydendrum arboreum	SMT	3.7	130	-	-	-	0	2	7	-	-	-
31	1	00958	Oxydendrum arboreum	SAP	1.1	10	-	-	-	0	1.5	1	-	-	-
31	2	00959	Acer rubrum	SAP	1.3	10	-	-	-	0	0.8	1	-	-	-
31	2	00960	Acer rubrum	SMT	3.2	130	-	-	-	0	2.1	1	-	-	-
31	2	00961	Cornus Florida	SMT	3.1	139	-	-	-	-1.9	2.0	1	-	-	-
31	4	00962	Cornus florida	SMT	2.3	130	-	-	-	-1.7	2.0	1	-	-	-
31	4	00963	Cornus Florida	SMT	3.9	130	-	-	-	-2.0	1.3	2	-	-	-
31	4	00964	Quercus alba	SBT	69.6	130	3	17.5	14.2	-2.5	2.3	1	-	-	-
31	4	00965	Acer rubrum	SMT	7.0	130	-	-	-	-2.2	6	1	-	-	-
31	4	00966	Oxydendrum arboreum	SBT	15.3	130	4	7.3	3.9	-2.3	4.8	1	-	-	-
31	4	00967	Cornus florida	SMT	3.2	130	-	-	-	-1.9	2.0	1	-	-	-
31	4	00968	ACER Rubrum	SBT	10.6	130	4	7.6	6.0	-2.1	6.9	1	-	-	-
31	4	00969	Cornus florida	SMT	2.4	130	-	-	-	-1.8	1.4	1	-	-	-
40	2	00970	Cornus florida	SMT	2.8	130	-	-	-	-1.9	1.0	1	-	-	-
40	1	00971	Quercus alba	SBT	5.7	130	2	11.7	10.3	-3.0	2.3	1	-	-	-
40	2	00972	Acer rubrum	SMT	9.7	130	-	-	-	-2.4	8	1	-	-	-
40	2	00973	Oxydendrum arboreum	SMT	9.2	130	-	-	-	0	3.0	2	-	-	-
40	2	00974	Liriodendron tulipifera	SBT	11.3	130	4	4.2	2.8	-2.2	10	1	-	-	-
40	4	00975	Oxydendrum arboreum	SBT	11.2	130	4	5	4.6	-3.3	9	1	-	-	-
40	1	00976	Acer rubrum	SAP	1.1	10	-	-	-	0	1.2	1	-	-	-

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Vegetation Structure Datasheets SOP C: Biomass and Productivity- Apparent Individuals

PlotID	ORNL_008				measuredBy	nestedSubplotArea lianas									
date	20151117				recordedBy	nestedSubplotArea									
YYMMDD					M. Campbell	25m2									
sub plot ID	nested Subplot ID	tagID	species	growth form	stem Diameter (cm)	measure ment Height (cm)	canopy Position	canopy diameter Max	canopy diameter 90	heightv D1	heightv D2	stem Status	shrub shape	BaseMax Can diam	Base 90 canopy
31	1	01056	Quercus montana	sbt	14.4	130	4	4	3.3	-2.5	12.0	1	-	-	-
31	1	01057	Acer rubrum	sap	1.3	10	-	-	-	0	1.5	1	-	-	-
31	1	01058	Acer rubrum	sap	1.5	10	-	-	-	0	2.2	1	-	-	-
31	1	01059	Acer rubrum	sap	1.1	10	-	-	-	0	1.4	1	-	-	-
31	1	01060	Acer rubrum	smt	1.0	130	-	-	-	0	2.5	1	-	-	-
31	1	01061	Acer rubrum	sap	1.2	10	-	-	-	0	1.9	1	-	-	-
31	1	01062	Oxydendrum arboreum	sbt	11.3	130	4	5.1	4.9	-2.9	7.8	1	-	-	-
31	1	01063	Cornus florida	smt	3.5	130	-	-	-	0	3.4	1	-	-	-
31	1	01064	Acer rubrum	smt	2.0	130	-	-	-	0	3.5	1	-	-	-
31	1	01065	Acer rubrum	sap	1.2	10	-	-	-	0	1.3	1	-	-	-
31	1	01066	Acer rubrum	smt	1.3	130	-	-	-	0	2.5	1	-	-	-
31	1	01067	Nyssa sylvatica	smt	9.7	130	-	-	-	-1.9	6.0	1	-	-	-
31	1	01069	Acer rubrum	sbt	13.0	130	4	7.6	6.9	-2.6	11	1	-	-	-
31	4	01080	Acer rubrum	smt	1.1	130	-	-	-	0	2.0	1	-	-	-
31	1	01081	Acer rubrum	sap	1.2	10	-	-	-	0	2.0	1	-	-	-
31	1	01082	Acer rubrum	sap	1.5	130	-	-	-	0	1.4	1	-	-	-
31	1	01083	Acer rubrum	smt	1.0	130	-	-	-	0	2.6	1	-	-	-
31	4	01084	Prunus serotina	smt	1.3	130	-	-	-	0	2.1	1	-	-	-
31	4	01085	Nyssa sylvatica	smt	2.8	130	-	-	-	0	2.8	1	-	-	-
31	1	01087	Acer rubrum	sap	1.3	10	-	-	-	0	1.9	1	-	-	-
31	4	01088	Nyssa sylvatica	smt	1.4	130	-	-	-	0	1.8	1	-	-	-

sub plot ID	nested Subplot t ID	tagID	species	growt h form	stem Diameter (cm)	measure ment Height (cm)	canopy Position	canopy diameter Max	canopy diameter 90	height D1	height D2	stem Status	shrub shape	BaseMax Can diam	Base 90 canopy
31	4	01089	Acer rubrum	smt	1.5	130	-	-	-	0	2.4	1	-	-	-
31	1	01090	Acer rubrum	sap	1.1	10	-	-	-	0	1.3	1	-	-	-
31	1	01091	Acer rubrum	smt	1.2	130	-	-	-	0	2.9	1	-	-	-
31	1	01092	Acer rubrum	smt	2.1	130	-	-	-	0	2.8	1	-	-	-
31	2	01096	Oxydendrum arboreum	sbt	10	130	4	2.2	1.6	-3.8	7	1	-	-	-
31	1	01097	Oxydendrum arboreum	sbt	15.2	130	4	4.9	3.8	-3.7	13	1	-	-	-
31	4	01104	Oxydendrum arboreum	smt	1.4	10	-	-	-	0	1.5	1	-	-	-
-	-	01103	Oxydendrum arboreum	sms	-	-	-	-	-	-	-	-	-	-	-
-	-	01103	Oxydendrum arboreum	sms	-	-	-	-	-	-	-	-	-	-	-
31	4	01104	unknown	smt	4.4	130	-	-	-	0	3.7	2	-	-	-
31	4	01106	Oxydendrum arboreum	sbt	23.4	130	4	10	6.1	-2.4	9.2	1	-	-	-
32	-	01107	Acer rubrum	sap	-	-	-	-	-	-	-	-	-	-	-
32	2	01110	Oxydendrum arboreum	sbt	10.0	130	4	6.7	3.1	-3.2	5.0	1	-	-	-
32	2	01111	Oxydendrum arboreum	smt	1.4	130	-	-	-	0	3.25	1	-	-	-
-	-	01112	Oxydendrum arboreum	sis	-	-	-	-	-	-	-	-	-	-	-
32	4	01112	Prunus serotina	smt	2.4	130	-	-	-	0	2.9	1	-	-	-
32	4	01113	Oxydendrum arboreum	smt	1.3	130	-	-	-	0	2.5	1	-	-	-
32	4	01114	Carya glabra	sap	1.3	10	-	-	-	0	1.2	1	-	-	-
32	4	01115	Acer rubrum	sbt	16.4	130	4	6	5.4	-4.1	14.5	1	-	-	-
32	2	01116	Prunus serotina	sap	1.0	130	-	-	-	0	2.4	1	-	-	-
32	3	01117	Quercus alba	sbt	37.8	130	3	12	7	-3.5	29	1	-	-	-
32	3	01136	unknown	sbt	43.8	130	4	21.6	-	-3.4	11.6	2	-	-	-
32	4	01137	Prunus serotina	sap	1.2	10	-	-	-	0	1.6	1	-	-	-
40	1	01139	Acer saccharum	smt	2.9	130	-	-	-	0	4.9	1	-	-	-
40	1	01140	Prunus serotina	sap	1.9	10	-	-	-	0	2.0	1	-	-	-

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Vegetation Structure Datsheets SOP C: Biomass and Productivity- Apparent Individuals

PlotID	ORNL_009				measuredBy	nestedSubplotArea lianas									
date	20151105				D. Mitchell	None									
YYMMDD	20151105				M. Cumberland	None									
sub plot ID	nested Subplot ID	tagID	species	growt h form	stem Diameter (cm)	measureme nt Height (cm)	canopy Position	canopy diameter Max	canopy diameter 90	heightv D1	heightv D2	stem Statu s	shrub shape	BaseMax Can diam	Base 90 canopy
31	1	01465	Fagus grandifolia	sap	2.2	10	-	-	-	0	1.4	1	-	-	-
31	1	01478	Ostrya virginiana Liriodendron tulipifera	sap	1.4	10	-	-	-	0	1.4	1	-	-	-
31	4	01479	Quercus prinus Acer saccharum	sap	1.1	10	-	-	-	0	0.8	1	-	-	-
31	1	01480	Acer rubrum	sbt	9.2	130	4	8	4.9	-8.2	4.1	1	-	-	-
31	1	01481	Fagus grandifolia	smt	1.4	130	-	-	-	0	1.6	1	-	-	-
31	1	01482	Quercus velutina	sbt	18.1	130	3	5.9	4.7	-6.5	10	1	-	-	-
31		01483	Acer rubrum	sbt											
31	4	01484	Acer rubrum	sap	2.5	130	-	-	-	-1.6	2.0	1	-	-	-
31		01484	Acer rubrum	sap											
31	2	01485	Oxydendrum arboreum	sbt	11.8	130	4	4.4	3.4	-6.7	2.	1	-	-	-
31	3	01486	Fagus grandifolia	sap	3.2	10	-	-	-	0	1.2	1	-	-	-
31	4	01487	Pinus virginiana	sbt	4.4	130	2	9.6	7.5	-8	15	1	-	-	-
31	3	01488	Acer rubrum	smt	7	130	-	-	-	-8.4	-1	1	-	-	-
31	3	01489	Pinus strobus	sap	1.4	10	-	-	-	0	1.3	1	-	-	-
31	4	01490	Acer saccharum	sap	1.2	10	-	-	-	0	0.5	1	-	-	-
31	4	01491	Fagus grandifolia	sap	1.2	10	-	-	-	0	1.2	1	-	-	-
31	4	01492	Acer saccharum	sap	1.4	10	-	-	-	0	1.6	1	-	-	-
31	2	01493	Acer saccharum	sap	1.3	10	-	-	-	0	1.55	1	-	-	-
31	2	01494	Ostrya virginiana Carpinus caroliniana	smt	1.1	120	-	-	-	0	2.1	1	-	-	-
31	2	01495	Fagus grandifolia	sap	2.5	10	-	-	-	0	1.8	1	-	-	-
31	2	01496	Cornus florida	smt	5.8	130	-	-	-	-2.6	1.4	1	-	-	-

2.1

[illegible]

-1.8

Entered 20151228

Vegetation Structure Datasheets SOP C: Biomass and Productivity- Apparent Individuals

PlotID	ORNL_0010				measuredBy	C. J. Jurena, K. H. Hase				nestedSubplotArea	lianas				
date	20151119				recordedBy	M. Campbell				nestedSubplotArea	10m ²				
sub plot ID	nested Subplot ID	tagID	species	growth form	stem Diameter (cm)	measured Height (cm)	canopy Position	canopy diameter Max	canopy diameter 90	height D1	height D2	stem Status	shrub shape	BaseMa x Can diam	Base 90 canopy
31	01	01306	Quercus alba	smt	3.9	130	-	-	-	0	6.2	1	-	-	-
31	01	01307	Quercus alba	smt	2.1	130	-	-	-	0	2.5	1	-	-	-
31	01	01309	Acer rubrum	smt	5.6	130	-	-	-	-1.4	5.9	1	-	-	-
31	01	01311	Quercus velutina	sap	1.7	10	-	-	-	0	1.2	1	-	-	-
31	1	01312	Oxydendrum arboreum	sbt	24.6	130	4	9.4	4.8	-0.6	10.9	1	-	-	-
31	1	01313	Acer rubrum	sbt	37.3	130	3	11.8	11.3	-2.5	13.3	1	-	-	-
31	4	01314	Oxydendrum arboreum	sbt	18.4	130	3	6.5	4.2	-2.1	10.9	1	-	-	-
31	3	01317	Nyssa sylvatica	sbt	12	130	4	6.8	4.1	0.0	11.0	1	-	-	-
31	4	01340	Oxydendrum arboreum	sbt	11.5	130	4	4.1	4.6	-1.8	5.7	1	-	-	-
31	4	01343	Oxydendrum arboreum	sbt	11.1	130	4	8.6	2.9	-1.8	6.0	1	-	-	-
31	4	01349	Oxydendrum arboreum	sbt	10.2	130	4	8.1	0.4	-1.6	5.7	1	-	-	-
31	4	01393	Oxydendrum arboreum	sbt	16.0	130	3	6.6	4.7	-2.5	11.0	1	-	-	-
31	04	01397	Prunus serotina	smt	1.4	130	-	-	-	0	2.8	1	-	-	-
31	04	01399	Prunus serotina	smt	2.3	130	-	-	-	0	2.8	1	-	-	-
32	02	01318	Prunus serotina	smt	1.6	130	-	-	-	0	1.9	1	-	-	-
32	02	01324	Nyssa sylvatica	smt	1.1	130	-	-	-	0	2.0	1	-	-	-
32	02	01325	Quercus coccinea	smt	1.2	130	-	-	-	0	2.1	1	-	-	-
32	02	01329	Quercus alba	smt	1.1	130	-	-	-	0	1.7	1	-	-	-
32	02	01330	Quercus alba	sap	1.2	10	-	-	-	0	1.3	1	-	-	-
40-32	3	01331	Quercus alba	sap	1.4	10	-	-	-	0	1.0	1	-	-	-
32	02	01338	Quercus alba	smt	2.9	130	-	-	-	0	4.1	1	-	-	-

11.4

53.3

1.2

1.1

sub plot ID	nested Subplot ID	tagID	species	growth form	stem Diameter (cm)	measure ment Height (cm)	canopy Positio n	canopy diameter Max	canopy diameter9 0	heightv D1	heightv D2	stem Status	shrub shape	BaseMa x Can diam	Base 90 canopy
32	04 01339		Quercus velutina	sap	2.7	10	-	-	-	0	1.3	1	-	-	-
32	04 01341		Quercus falcata	smt	1.3	130	-	-	-	0	2.3	1	-	-	-
32	04 01346		Quercus alba	sap	1.3	10	-	-	-	0	1.2	1	-	-	-
32	04 01394		unknown	sap	4.2	10	-	-	-	0	1.1	2	-	-	-
32	04 01400		Quercus velutina	sap	1.6	10	-	-	-	0	0.9	1	-	-	-
32	04 01401		Nyssa sylvatica	smt	8.1	130	-	-	-	-3.4	3.3	1	-	-	-
32	04 01402		Quercus alba	smt	1.4	130	-	-	-	0	2.6	1	-	-	-
32	04 01403		Carya tomentosa	sbt	53.3	130	2	14.1	11.5	-3.2	13.3	1	-	-	-
32	04 01404		Quercus rubra	sap	1.2	10	-	-	-	0	0.9	1	-	-	-
40 32	1 01405		Dydaerops elboreum unknown	sap	1.0	10	-	-	-	0	1.3	1	-	-	-
32	1 01406		Nyssa sylvatica	sbt	16.4	130	3	9.9	5.9	-3.5	10.4	1	-	-	-
32	1 01407		Oxydendrum arboreum	sbt	10.3	130	3	7.3	5.0	-3.3	6.0	1	-	-	-
32	3 01408		Acer rubrum	sbt	25	130	3	11.0	6.5	-2.7	12.7	1	-	-	-
32	3 01413		unknown Pinus sp	sbt	22.0	130	4	11.0	-	-1.9	2.2	2	-	-	-
32	04 01429		Quercus alba	smt	2.5	130	-	-	-	0	1.2	1	-	-	-
32	2 01443		Nyssa sylvatica	sbt	11.4	130	4	7.3	4.6	-4.0	3.1	1	-	-	-
40	01 01430		Quercus alba	smt	1.4	130	-	-	-	0	2.6	1	-	-	-
40	01 01436		Quercus coligera unknown	sap	1.7	10	-	-	-	0	1.0	1	-	-	-
40	01 01437		Liriodendron tulipifera	sbt	27.5	130	3	9.6	6.4	-0.7	14.0	1	-	-	-
40	01 01438		Quercus alba	sap	1.2	10	-	-	-	0	0.9	1	-	-	-
40	01 01439		Oxydendrum arboreum	sap	1.0	130	-	-	-	0	1.9	1	-	-	-
40	01 01440		Quercus alba	sap	1.4	10	-	-	-	0	1.5	1	-	-	-
40	1 01441		Nyssa sylvatica	smt	3.3	130	-	-	-	0	3.9	1	-	-	-
40	1 01442		Acer rubrum	sbt	14.1	130	4	7.4	6.2	-1.7	11.1	1	-	-	-
40	1 01444		Oxydendrum arboreum	sbt	11.0	130	4	5.5	2.8	-2.2	8.2	1	-	-	-

ENTERED 20161005 ON

Vegetation Structure Datasheets SOP C: Biomass and Productivity- Apparent Individuals

PlotID	ORNL_0012				measuredBy	D. Mitchell, C. Juncos				nestedSubplotArea	lianas				
date	20151110				recordedBy	M. Cumberland				nestedSubplotArea	sapping, shrub, small tree				
YYMMDD	20151110									25m2					
sub plot ID	nested Subplot ID	tagID	species	grow th form	stem Diameter (cm)	measure ment Height (cm)	canopy Position	canopy diameter Max	canopy diameter 90	heightVD1	heightVD2	stem Status	shrub shape	BaseMax Can diam	Base 90 canopy
31	1	00660	Acer saccharum	smt	3.5	130	-	-	-	-2.1	2.9	1	-	-	-
31	1	00661	Acer saccharum	smt	3.4	130	-	-	-	-2.2	4.3	1	-	-	-
31	1	00662	Acer saccharum	smt	2.4	130	-	-	-	-2.0	1.4	1	-	-	-
31	1	00663	Acer saccharum	smt	4.2	130	-	-	-	-2.4	3.0	1	-	-	-
31	1	00669	Acer saccharum	smt	2.7	130	-	-	-	-5.4	-0.5	1	-	-	-
31	1	00672	Fagus grandifolia	sbt	20.8	130	4	97	7.7	-2.6	2.0	1	-	-	-
31	4	00673	Acer saccharum	smt	3.8	130	-	-	-	-4.0	1.4	1	-	-	-
31	4	00674	Magnolia acuminata	sbt	40.7	130	3	13.7	8.6	-4.7	22.3	1	-	-	-
31	4	00676	unknown	smt	1.9	130	-	-	-	0	1.7	2	-	-	-
31	4	00680	Acer saccharum	smt	1.6	130	-	-	-	0	2.55	1	-	-	-
31	4	00681	unknown	smt											
31	4	00682	Fagus grandifolia	sbt	37.5	130	3	13.4	12.9	-6.1	17.2	1	-	-	-
31	4	00683	Acer saccharum	sap	1.6	10	-	-	-	0	1.7	1	-	-	-
40	1	00685	Acer saccharum	smt	1.9	130	-	-	-	-2.5	0.8	1	-	-	-
40	1	00686	Acer saccharum	smt	1.7	130	-	-	-	-2.3	0.6	1	-	-	-
40	1	00688	Carya glabra	sbt	6.1	130	2	18.0	14.2	-3.3	2.2	1	-	-	-
40	1	00689	Acer saccharum	smt	1.6	130	-	-	-	-2.4	0.5	1	-	-	-
40	1	00690	unknown <i>Acer saccharum</i>	smt	1.5	130	-	-	-	0	3.3	7	-	-	-
40	1	00691	Fagus grandifolia	sbt	27.4	130	3	9.9	9.0	-3.5	16.9	1	-	-	-
40	1	00692	Acer saccharum	smt	3.1	130	-	-	-	0	3.7	1	-	-	-
40	1	00693	unknown	smt	1.6	130	-	-	-	0	2.9	2	-	-	-

[illegible]

Entered 20160113 BW

7.9

Lymus 2 Birch
29, 14)

Vegetation Structure Datasets SOP C: Biomass and Productivity- Apparent Individuals

PlotID	ORNL_0014				measuredBy	D. Mitchell, C. Juncos				nestedSubplotArea	lianas				
date	20151113				recordedBy	M. Cumberland				nestedSubplotArea	sapping, shrub, small tree				
sub plot ID	nested Subplot ID	tagID	species	growt h form	stem Diameter (cm)	measure ment Height (cm)	canopy Positio n	canopy diameter Max	canopy diameter 90	heightVD 1	heightVD 2	stem Status	shrub shape	BaseMax Can diam	Base 90 canopy
31	1	01001	Acer rubrum	SMT	1.7	130	-	-	-	0	3.1	1	-	-	-
31	1	01002	Carya tomentosa	SBT	47.9	130	3	19.6	11.7	-4.0	23.3	1	-	-	-
31	1	01003	Acer rubrum	SMT	6.3	130	-	-	-	-2.6	5.4	1	-	-	-
31	1	01004	Acer rubrum	SMT	2.3	130	-	-	-	0	3.4	1	-	-	-
31	3	01005	Magnolia tripetala	SMT	1.9	130	-	-	-	0	1.9	1	-	-	-
31	3	01006	Acer rubrum	SMT	4.4	139	-	-	-	-2.1	3.2	1	-	-	-
31	3	01007	Oxydendrum arboreum	SBT	10.8	130	4	9.2	2.4	-1.7	6.6	1	-	-	-
31	3	01008	Acer rubrum	SMT	5.4	130	-	-	-	-2.3	4.0	1	-	-	-
31	1	01009	Acer rubrum	SMT	1.4	130	-	-	-	-2.4	-0.1	1	-	-	-
31	2	01010	Cercis canadensis	SMT	7.9	139	-	-	-	-1.7	3.7	1	-	-	-
31	4	01011	Liriodendron tulipifera	SMT	3.5	130	-	-	-	-1.5	4.4	7	-	-	-
31	4	01012	Liriodendron tulipifera	SMT	6.9	130	-	-	-	-2.1	6.3	1	-	-	-
31	4	01013	Liriodendron tulipifera	SMT	6.2	130	-	-	-	-0.5	7.7	1	-	-	-
31	4	01014	Liriodendron tulipifera	SMT	9.5	130	-	-	-	-0.5	14.5	1	-	-	-
31	4	01015	Prunus serotina	SBT	12.8	130	3	6.8	3.3	0.2	16.5	1	-	-	-
31	4	01016	Liriodendron tulipifera	SMT	8.7	130	-	-	-	-0.4	5.3	1	-	-	-
31	4	01017	Acer rubrum	SMT	7.3	130	-	-	-	-0.7	8.3	1	-	-	-
31	3	01018	Acer rubrum	SMT	3.3	139	-	-	-	-0.7	2.2	1	-	-	-
31	3	01019	Nyssa sylvatica	SMT	4.6	130	-	-	-	-0.9	4.8	1	-	-	-
31	3	01020	Oxydendrum arboreum	SMT	1.5	130	-	-	-	0	2.3	1	-	-	-
31	3	01021	Acer rubrum	SMT	4.0	130	-	-	-	-1.7	4.3	1	-	-	-

1.1
49.6
0.0

sub plot ID	nested Subplot ID	tagID	species	growt h form	stem Diameter (cm)	measure ment Height (cm)	canopy Positio n	canopy diameter Max	canopy diameter 90	heightVD 1	heightVD 2	stem Status	shrub shape	BaseMax Can diam	Base 90 canopy
40	1	01022	Acer rubrum	SMT	5.6	130	-	-	-	-0.6	6.9	1	-	-	-
40	2	01023	Carya tomentosa	SBT	40.6	130	3	15.4	9.9	0	25.5	1	-	-	-
40	2	01024	Nyssa sylvatica	SBT	12.4	139	4	4.3	4.1	-0.1	9.2	1	-	-	-
2 40	3	01025	Prunus serotina	SMT	1.8	10	-	2.3	2	0	1.9	1	hsp	-	-
40	2	01026	Acer saccharum	SMT	1.6	130	-	-	-	0	2.7	1	-	-	-
2 40	3	01027	Oxydendrum arboreum	SMT	1.1	10	-	2.1	0.6	0	.8	1	hsp	-	-
40	4	01028	Acer rubrum	SMT	5.1	130	-	-	-	-0.9	6.0	1	-	-	-
40	4	01029	unknown	SBT	10.1	130	4	4.0	1.0	-1.2	6.8	7	-	-	-
40	4	01030	Acer rubrum	SBT	12.3	130	3	5.3	4.9	-1.7	14.5	1	-	-	-
41	2	01031	Oxydendrum arboreum	SMT	1.7	130	-	-	-	0	1.6	1	-	-	-
41	4	01032	Cercis canadensis	SMT	1.7	130	-	-	-	0	2.4	1	-	-	-
41	4	01033	Prunus serotina	SMT	1.7	130	-	-	-	0	2.7	1	-	-	-
41	4	01034	Prunus serotina	SAP	1.2	10	-	-	-	0	1.1	1	-	-	-
41	4	01035	Prunus serotina	SMT	1.0	130	-	-	-	0	2.4	1	-	-	-
41	4	01036	Quercus alba	SBT	27.9	130	3	7.5	5.9	-1.7	21.0	1	-	-	-
41	4	01037	Prunus serotina	SAP	1.4	10	-	-	-	0	1.4	1	-	-	-
41	2	01038	Carpinus caroliniana	SAP	2.0	10	-	-	-	0	0.8	1	-	-	-
41	2	01039	Acer rubrum	SIS	3.8	139	-	6.6	3.4	0	3.6	1	obs	13.8	-
41	2	01039	Acer rubrum	SIS	2.8										
41	2	01040	Acer rubrum	SBT	56.7	130	3	11.5	9.5	-2.8	22.3	1	-	-	-
41	2	01041	unknown-Carya	SBT	28.4	130	4	18.5	-	-2.3	18.4	2	-	-	-
41	2	01042	Acer rubrum	SMT	1.3	130	-	-	-	0	2.3	1	-	-	-
41	2	01043	Nyssa sylvatica	SMT	1.3	139	-	-	-	0	2.0	1	-	-	-
41	1	01044	Oxydendrum arboreum	SMT	1.1	19	-	-	-	0	1.2	1	-	-	-
49	3	1025	Prunus serotina	SMS	1.4	19	-	2.3	2	0	1.9	1	hsp	-	-
40	3	1027	Oxydendrum arboreum	SMS	2.1	19	-	2.1	0.6	0	0.8	1	hsp	-	-

Vegetation Structure Datasheet

SOP D: Biomass/Productivity Measurements

Apparent Individuals

FNTEN 2016.01.14

measuredBy:

K. Haase, J. Troxler

recordedBy:

M. Cumberland

date

2015/11/06

(YYYYMMDD):

plotID:

ORNL-021

nestedSubplotArea (liana)

None

nestedSubplotArea (shrub/small tree/sapling)

None

sub plot ID	nested Subplot ID	tagID	species	growth form	stem Diameter (cm)	measurement Height (cm)	canopy Position	canopy diameterMax	canopy diameter90	heightVD1	heightVD2	stem Status	remarks shrub shape
31	1	259	Fraxinus sp	SMT	1.4	130	3	0.1	0.1	0	1.3	1	-
31	1	242	Elaeagnus umbellata	SMS	2.1	10	-	1.5	0.8	0	1.9	1	cy1
31	1	242	Elaeagnus umbellata	SMS	1.7	10	-	1.5	0.8	0	1.9	1	cy1
31	1	244	Elaeagnus umbellata	SIS	1.9	130	3	2.8	1.8	0	2.4	1	cy1
31	1	246	Elaeagnus umbellata	SAP	1.4	10	-	-	-	0	1.8	1	-
31	1	250	Elaeagnus umbellata	SAP	2.1	10	-	-	-	0	1.7	1	-
31	1	253	Elaeagnus umbellata	SIS	1.7	130	2	2.8	2.7	0	2.6	1	cy1/3.2
31	4	264	Fraxinus sp	SMT	1.8	130	3	0.9	0.7	0	1.8	1	-
32	1	262	Quercus rubra	SMT	2.4	130	2	1.5	0.8	0	2.6	1	-
32	1	263	Liriodendron tulipifera	SIS	1.3	130	2	1.7	1.6	0	1.8	2	cy1/2.8
32	1	263	Liriodendron tulipifera	SIS	2.0	130	2	1.7	1.6	0	1.8	2	cy1/4.1
32	1	263	Liriodendron tulipifera	SIS	1.5	130	2	1.7	1.6	0	1.8	1	cy1/4.5
32	3	265	Fraxinus sp	SIS	1.5	130	3	0.3	0.2	0	2.3	1	cy1/1.7
32	3	265	Fraxinus sp	SIS	1.5	130	3	0.3	0.2	0	2.3	1	cy1/1.3
32	3	254	Elaeagnus umbellata	SMT	2.3	130	2	2.8	2.2	0	2.3	1	-
32	1	267	Elaeagnus umbellata	SMT	1.0	130	2	1.3	1.2	0	2.5	1	-
32	3	256	Fraxinus sp	SIS	1.4	130	2	0.5	0.4	0	2.0	1	cy1/2.5
32	3	256	Fraxinus sp	SIS	1.4	130	2	0.5	0.4	0	2.0	1	cy1/1.9
32	2	286	Elaeagnus umbellata	SMS	1.9	10	-	2.7	1.9	0	2.2	1	hsp
32	2	286	Elaeagnus umbellata	SMS	2.7	10	-	2.7	1.9	0	2.2	1	hsp

Vegetation Structure Datasheet
SOP D: Biomass/Productivity Measurements

Apparent Individuals

sub plot ID	nested Subplot ID	tagID	species	growth form	stem Diameter (cm)	measurement Height (cm)	canopy Position	canopy diameterMax	canopy diameter90	heightVD1	heightVD2	stem Status	remark
32	2	286	<i>Elaeagnus umbellata</i>	SMS	1.5	10	-	2.7	1.9	0	2.2	1	hsp
32	2	286	<i>Elaeagnus umbellata</i>	SMS	2.0	10	-	2.7	1.9	0	2.2	1	hsp
32	2	286	<i>Elaeagnus umbellata</i>	SMS	2.0	10	-	2.7	1.9	0	2.2	1	hsp
32	2	286	<i>Elaeagnus umbellata</i>	SMS	1.1	10	-	2.7	1.9	0	2.2	1	hsp
32	2	286	<i>Elaeagnus umbellata</i>	SMS	1.6	10	-	2.7	1.9	0	2.2	1	hsp
32	2	286	<i>Elaeagnus umbellata</i>	SMS	2.8	10	-	2.7	1.9	0	2.2	1	hsp
32	3	257	<i>Elaeagnus umbellata</i>	SAP	2.1	10	-	-	-	0	2.0	1	-
32	2	295	<i>Quercus rubra</i>	SMT	1.4	130	2	1.0	0.8	0	2.2	1	-
32	4	289	<i>Elaeagnus umbellata</i>	SMS	2.5	10	-	2.4	1.2	0	2.5	1	cy1
32	4	289	<i>Elaeagnus umbellata</i>	SMS	2.1	10	-	2.4	1.2	0	2.5	1	cy1
32	4	289	<i>Elaeagnus umbellata</i>	SMS	2.1	10	-	2.4	1.2	0	2.5	1	cy1
32	4	296	<i>Elaeagnus umbellata</i>	SAP	1.8	10	-	-	-	0	1.8	1	-
41	1	290	<i>Elaeagnus umbellata</i>	SMT	1.5	130	2	2.0	1.8	0	2.3	1	-
41	1	297	<i>Elaeagnus umbellata</i>	SMT	1.3	130	3	2.0	1.8	0	2.3	1	-
41	1	291	<i>Elaeagnus umbellata</i>	SMT	1.4	130	2	1.4	1.0	0	2.4	1	-
41	1	298	<i>Elaeagnus umbellata</i>	SAP	2.1	10	-	-	-	0	1.9	1	-
41	4	293	<i>Fraxinus sp</i>	SIS	1.4	130	3	0.6	0.4	0	1.8	1	cy1
41	4	293	<i>Fraxinus sp</i>	SIS	1.1	130	3	0.6	0.4	0	1.8	1	cy1
41	1	299	<i>Elaeagnus umbellata</i>	SMT	1.8	130	2	2.0	1.9	0	2.5	1	-
41	3	294	<i>Elaeagnus umbellata</i>	SMS	2.2	10	-	1.6	1.3	0	2.3	1	hsp
41	3	294	<i>Elaeagnus umbellata</i>	SMS	1.1	10	-	1.6	1.3	0	2.3	1	hsp
41	3	294	<i>Elaeagnus umbellata</i>	SMS	1.7	10	-	1.6	1.3	0	2.3	1	hsp
41	3	300	<i>Elaeagnus umbellata</i>	SIS	1.4	130	3	1.5	1.4	0	2.6	1	cy1
41	3	300	<i>Elaeagnus umbellata</i>	SIS	1.3	130	3	1.5	1.4	0	2.6	1	cy1

Entered 20160106

Vegetation Structure Datasheets SOP C: Biomass and Productivity- Apparent Individuals

PlotID	ORNL_027					measuredBy	D.M. Bell, C. Jureau					nestedSubplotArea lianas				
date	2015/1/12					recordedBy	M. Campbell					nestedSubplotArea				
YYMMDD	sub plot ID	nested Subplot ID	tagID	species	growt h form	stem Diameter (cm)	measure ment Height (cm)	canopy Positio n	canopy diameterM ax	canopy diameter90	heightVD 1	heightVD 2	stem Status	shrub shape	BaseMax Can diam	Base 90 canopy
31		1	02535	Rosa multiflora	smt	1.4	10	-	-	-	0	1.5	1	-	-	-
31			02535	Rosa multiflora	sms											
31			02535	Rosa multiflora	sms											
31		2	02542	Acer rubrum	mbt	10.2	130	4	8.2	4.7	-2	6	1	-	-	-
31		4	02551	Ligustrum sinense	smt	1.0	139	-	-	-	0	2.5	1	-	-	-
31			02551	Ligustrum sinense	sms											
31			02551	Ligustrum sinense	sms											
31		4	02552	Ulmus alata	smt	1.7	139	-	-	-	0	3.4	1	-	-	-
31		4	02553	Ulmus alata	smt	1.3	130	-	-	-	0	3.1	1	-	-	-
31		4	02554	Ulmus alata	sap	2.2	10	-	-	-	0	2.0	1	-	-	-
31		4	02555	Fraxinus americana	sap	1.9	10	-	-	-	0	2.3	1	-	-	-
31		4	02556	Ligustrum sinense	sms	2.3	10	-	.8	1.7	0	1.5	1	cy1	-	-
31		4	02556	Ligustrum sinense	sms	3.1	10	-	.8	1.7	0	1.5	1	cy1	-	-
31		4	02556	Ligustrum sinense	sms	1.2	10	-	1.8	1.7	0	1.5	1	cy1	-	-
31		4	02558	Ligustrum sinense	sap	4.8	10	-	-	-	0	1.4	1	-	-	-
31			02558	Ligustrum sinense	sms											
31			02558	Ligustrum sinense	sms											
31			02559	Ligustrum sinense	sms											
31			02559	Ligustrum sinense	sms											
31			02559	Ligustrum sinense	sms											
31			02559	Ligustrum sinense	sms											
31			02559	Ligustrum sinense	sms											
31			02559	Ligustrum sinense	sms											
31			02559	Ligustrum sinense	sms											
31			02559	Ligustrum sinense	sms											
31			02559	Ligustrum sinense	sms											
31			02559	Ligustrum sinense	sms											
31			02559	Ligustrum sinense	sms											
31			02559	Ligustrum sinense	sms											
31			02559	Ligustrum sinense	sms											
31			02559	Ligustrum sinense	sms											
31			02559	Ligustrum sinense	sms											
31			02559	Ligustrum sinense	sms											
31			02559	Ligustrum sinense	sms											
31			02559	Ligustrum sinense	sms											
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31			02559	Ligustrum sinense	sms											
31			02559	Ligustrum sinense	sms											
31			02559	Ligustrum sinense	sms											
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31			02559	Ligustrum sinense	sms											
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31			02559	Ligustrum sinense	sms											
31			02559	Ligustrum sinense	sms											
31			02559	Ligustrum sinense	sms											
31			02559	Ligustrum sinense	sms											
31			02559	Ligustrum sinense	sms											
31			02559	Ligustrum sinense	sms											
31			02559	Ligustrum sinense	sms											
31			02559	Ligustrum sinense	sms											
31			02559	Ligustrum sinense	sms											
31			02559	Ligustrum sinense	sms											
31			02559	Ligustrum sinense	sms											
31			02559	Ligustrum sinense	sms											
31			02559	Ligustrum sinense	sms											
31			02559	Ligustrum sinense	sms											

- 2.2 5.4

- 1.9

sub plot ID	nested Subplot t ID	tagID	species	growt h form	stem Diameter (cm)	measure ment Height (cm)	canopy Positio n	canopy diameterM ax	canopy diameter90	heightVD 1	heightVD 2	stem Status	shrub shape	BaseMax Can diam	Base 90 canopy
31	2	02562	Juniperus virginiana	sbt	29.5	130	2	5.8	4.0	-1.9	14	1	-	-	-
32	2	02563	Fraxinus americana	sbt	11.5	130	3	4	2.7	-2.6	10.8	1	-	-	-
32	2	02564	Quercus falcata	sap	1.1	139	-	-	-	0	2.1	1	-	-	-
32	2	02565	Juniperus virginiana	sbt	24.9	130	2	5.8	3.0	-2	13.1	1	-	-	-
32	2	02573	Juniperus virginiana Fraxinus americana Fraxinus americana	sap	3.8	130	-	-	-	-2.2	2	2	-	-	-
32	4	02577A	Juniperus virginiana	sbt	17.6, 10.2	130	3	7.5	2.5	-1.9	7.4	1	-	-	-
32	1	02580	Fraxinus americana	sbt	34	139	2	9	5	-2.6	17	1	-	-	-
32	2	02584	Quercus falcata unknown	sap	1.3	110	-	-	-	0	1.15	1	-	-	-
32	4	02585	Frangula caroliniana	smt	1.2	130	-	-	-	0	2.6	1	-	-	-
32	4	02586	Juniperus virginiana	sbt	28.8	130	3	5.2	4.6	-2.3	13	1	-	-	-
32	4	02587	Juniperus virginiana	smt	8	130	-	-	-	-1.5	3.5	1	-	-	-
40	3	02588	Frangula caroliniana	smt	4.4	139	-	-	-	-1.5	4	1	-	-	-
40	3	02589	Frangula caroliniana	smt	1.7	139	-	-	-	0	3.4	1	-	-	-
40	3	02590	Frangula caroliniana	smt	2.2	130	-	-	-	0	2.7	1	-	-	-
40	3	02591	Juniperus virginiana	sbt	21.3	130	3	4.5	3.6	-1.8	12	1	-	-	-
40	3	02592	Frangula caroliniana	sap	1.4	10	-	-	-	0	2.5	1	-	-	-
40	3	02601	Fraxinus americana	smt	1.4	130	-	-	-	0	3.3	1	-	-	-
40	3	02602	Fraxinus americana unknown	sap	1.5	10	-	-	-	0	0.9	1	-	-	-
40	3	02603	Fraxinus americana	sap	1.3	10	-	-	-	0	2.3	1	-	-	-
40	4	02604	Cornus florida	sbt	14.1	139	3	8.3	3.8	-2	8	1	-	-	-
40	4	02605	Juniperus virginiana	sbt	31.4	139	3	19.6	5	-2	14	1	-	-	-
40	4	02606	Juniperus virginiana	sbt	21.4	130	3	5.3	4.3	-2.1	10	1	-	-	-
40	4	02607	Juniperus virginiana	sbt	31.9	139	3	5.2	4.9	-2.8	15	1	-	-	-
40	3	02608	Oxydendrum arboreum	sis	3.6	130	-	2.4	2.0	-1.2	4.3	1	-	4.2	-
40	3	02608	Oxydendrum arboreum	sis	3.3	139	-	2.4	2.0	-1.2	4.3	1	-	4.4	-

PlotID	ORNL_029				measuredBy	nestedSubplotAreas									
date	20151113				recordedBy	nestedSubplotArea									
YYMMDD					M. Campbell	saping, shrub, small tree									
sub plot ID	nested Subplot ID	tagID	species	growt h form	stem Diameter (cm)	measur ement Height (cm)	canopy Positio n	canopy diameter Max	canopy diameter9 0	heightVD 1	heightVD 2	stem Status	shrub shape	BaseMax Can diam	Base 90 canopy
31	01 01691		Elaeagnus umbellata	sms	1.1	10	-	-	-	0	1.5	1	-	-	-
31	01 01691		Elaeagnus umbellata	sms											
31	01 01691		Elaeagnus umbellata	sms											
31	01 01692		Pinus virginiana	sap	1.2	10	-	-	-	0	1.3	1	-	-	-
31	01 01693		Pinus virginiana	smt	1.1	125	-	-	-	0	2.6	1	-	-	-
31	01 01694		Elaeagnus umbellata	sms	1.6	130	-	-	-	-1.3	1.4	1	-	-	-
31	01 01694		Elaeagnus umbellata	sis											
31	01 01694		Elaeagnus umbellata	sis											
31	01 01694		Elaeagnus umbellata	sis											
31	01 01695		Acer rubrum	smt	1.8	130	-	-	-	0	3.9	1	-	-	-
31	01 01696		Fagus grandifolia	smt	2.8	130	-	-	-	0	1.3	1	-	-	-
31	01 01697		Juniperus virginiana	sbt	11.6	139	3	2.1	1.9	-1.5	6.8	1	-	-	-
31	01 01698		Fraxinus americana	smt	7.8	130	-	-	-	-1.9	6.4	1	-	-	-
31	01 01699		Fagus grandifolia	smt	1.4	130	-	-	-	0	2.7	1	-	-	-
31	01 01700		Prunus serotina	smt	8.5	130	-	-	-	-1.3	5.0	1	-	-	-
31	01 01701		Quercus falcata	smt	1.2	10	-	-	-	-1.2	3.2	1	-	-	-
31	01 01702		Quercus falcata	smt	1.1	130	-	-	-	0	2.4	1	-	-	-
31	01 01703		Fagus grandifolia	smt	4.2	139	-	-	-	-1.2	3.5	1	-	-	-
31	01 01704		Elaeagnus umbellata	sms	1.6	10	-	-	-	0	1.5	1	-	-	-
31	01 01704		Elaeagnus umbellata	sms											
31	01 01704		Elaeagnus umbellata	sms											
31	01 01704		Elaeagnus umbellata	sms											
31	01 01705		Elaeagnus umbellata	sms	1.3	130	-	-	-	0	2.5	1	-	-	-

sub plot ID	nested Subplo t ID	tagID	species	growt h form	stem Diameter (cm)	measure ment Height (cm)	canopy Positio n	canopy diameter Max	canopy diameter9 0	heightVD 1	heightVD 2	stem Status	shrub shape	BaseMax Can diam	Base 90 canopy
31	01	01705	Elaeagnus umbellata	sms											
31	01	01705	Elaeagnus umbellata	sms											
31	01	01706	Elaeagnus umbellata	sms	1.5	10	-	-	-	0	2.1	1	-	-	-
31	01	01706	Elaeagnus umbellata	sms											
31	01	01706	Elaeagnus umbellata	sms											
31	01	01707	Liriodendron tulipifera	smt	1.7	10	-	-	-	0	2.1	1	-	-	-
31	01	01708	Acer rubrum	smt	1.0	130	-	-	-	0	2.2	1	-	-	-
31	01	01709	Liquidambar styraciflua	sbt	11.2	130	3	2.3	1.3	-1.8	8.3	1	-	-	-
31	01	01710	Quercus montana	sbt	28.4	130	3	6.9	6.6	-1.7	11.8	1	-	-	-
31	2	01711	Liquidambar styraciflua	sbt	16.8	130	3	3.5	2.7	-1.7	11.7	1	-	-	-
31	2	01712	Sassafras albidum	sbt	10.9	130	4	-1.4	3.6	5.6	2.6	1	-	-	-
31	2	01713	Juniperus virginiana	sbt	19.7	130	3	2.2	1.8	-1.6	2.7	1	-	-	-
31	4	01714	Pinus virginiana	sbt	23.4	130	2	6.9	5.7	-1.4	11.3	1	-	-	-
31	3	01715	Juniperus virginiana unknown	sbt	24	130	4	2.2	-	-1.3	1.2	1	-	-	-
31	04	01716	Cercis canadensis	smt	1	130	-	-	-	0	2.45	1	-	-	-
31	04	01717	Quercus alba	smt	1.1	130	-	-	-	0	2.4	1	-	-	-
31	04	01718	Liquidambar styraciflua	sap	1.9	10	-	-	-	0	0.73	1	-	-	-
31	04	01719	unknown	smt	4.5	130	-	-	-	-1.2	3.8	2	-	-	-
31	04	01720	Acer rubrum	smt	1.0	130	-	-	-	0	2.1	1	-	-	-
31	04	01721	Liquidambar styraciflua	smt	1.5	130	-	-	-	0	1.9	7	-	-	-
31	04	01722	Cercis canadensis	smt	1.3	130	-	-	-	0	2.7	1	-	-	-
31	04	01723	Vaccinium stamineum	sms	1.0	10	-	-	-	0	1.2	1	-	-	-
31	04	01723	Vaccinium stamineum	sms											
31	04	01723	Vaccinium stamineum	sms											
31	04	01724	Ulmus alata	sap	1.2	10	-	-	-	0	1.9	1	-	-	-

Vegetation Structure Datasheet
SOP D: Biomass/Productivity Measurements

Apparent Individuals **ENTERED 2016 VICO VM**

measuredBy: **K. Haase, J. Toxler**
 recordedBy: **Y. Cumberland**
 date: **20151106**
 (YYYYMMDD):

plotID: **1RNL-31**
 nestedSubplotArea (liana) **None**
 nestedSubplotArea (shrub/small tree/sapling) **None**

sub plot ID	nested Subplot ID	tagID	species	growth form	stem Diameter (cm)	measurement Height (cm)	canopy Position	canopy diameterMax	canopy diameter90	heightVD1	heightVD2	stem Status	remarks
2 31	3	80	Diospyros virginiana	SIS	1.0	130	2	1.0	1.2	0	1.9	2	21/2.1
31	3	80	Diospyros virginiana	SIS	1.1	130	2	1.0	1.2	0	1.9	2	21/2.7
2 31	3	81	Diospyros virginiana	SMS	1.6	11	-	0.5	0.3	0	1.6	2	cy1
31	3	81	Diospyros virginiana	SMS	1.1	10	-	0.5	0.3	0	1.1	1	cy1
31	4	82	Diospyros. virginiana	SAP	1.2	10	-	-	-	0	1.2	2	-
31	2	83	Diospyros virginiana	SAP	1.6	10	-	-	-	0	1.6	2	-
32	2	84	Diospyros virginiana	SAP	1.2	10	-	-	-	0	1.2	1	-
2 32	4	85	Diospyros virginiana	SMS	2.4	11	-	0.7	0.6	0	1.5	2	cy1
32	4	85	Diospyros virginiana	SMS	1.8	10	-	0.7	0.6	0	1.5	1	cy1
32	4	87	Elaeagnus umbellata	SMS	1.1	10	-	3.0	2.0	0	2.3	1	cy1
32	4	87	Elaeagnus umbellata	SMS	1.2	10	-	3.0	2.0	0	2.3	1	cy1
32	4	87	Elaeagnus umbellata	SMS	1.7	10	-	3.0	2.0	0	2.3	2	cy1
32	4	87	Elaeagnus umbellata	SMS	1.3	10	-	3.0	2.0	0	2.3	1	cy1
32	4	87	Elaeagnus umbellata	SMS	1.2	10	-	3.0	2.0	0	2.3	2	cy1
2 41	1	86	Elaeagnus umbellata	SMS	4.3	10	-	1.3	1.0	0	1.4	2	cy1
41	1	86	Elaeagnus umbellata	SMS	2.5	10	-	1.3	1.0	0	1.4	1	cy1
41	4	88	Diospyros virginiana	SMS	1.4	10	-	1.0	0.8	0	1.7	1	cy1
41	4	88	Diospyros virginiana	SMS	2.1	10	-	1.0	0.8	0	1.7	2	cy1
41	4	88	Diospyros virginiana	SMS	1.6	10	-	1.0	0.8	0	1.7	1	cy1
41	4	88	Diospyros virginiana	SMS	1.0	10	-	1.0	0.8	0	1.7	1	cy1

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[illegible]

sub plot ID	nested Subplot ID	tagID	species	growth form	stem Diameter (cm)	measure ment Height (cm)	canopy Position	canopy diameterM ax	canopy diameter0	heightVD 1	heightVD 2	stem Status	shrub shape	BaseMax Can diam	Base 90 canopy
31	1	02162	Lonicera japonica	lia	1.0	130	-	-	-	-	-	1	-	-	-
32 31	4	02163	Pinus virginiana Juniperus virginiana	smt	7.5	130	-	-	-	-1.3	2.2	2	-	-	-
32 31	2	02169	Liquidambar styraciflua	sbt	13.7	130	4	3.2	2.7	-1.5	4.8	1	-	-	-
32 31	2	02172	Liriodendron tulipifera	sbt	24.5	130	3	7.1	5.5	-1.6	11.5	1	-	-	-
32 31	2	02176	Pinus virginiana	smt	8.6	150	-	-	-	-1.4	4.9	1	-	-	-
32 31	2	02177	Ulmus alata	sap	1.5	10	-	-	-	0	2.1	1	-	-	-
32 31	2	02178	Pinus virginiana	smt	7.2	130	-	-	-	-1.8	4.7	1	-	-	-
32 31	2	02179	Pinus virginiana	smt sbt	31.3	130	2	4.9	4.5	-1.5	12.5	1	-	-	-
32 31	2	02180	Liquidambar styraciflua	smt sbt	9.0	130	-	-	-	-1.5	1.3	1	-	-	-
32 31	2	02181	Liquidambar styraciflua	smt sap	1.5	10	-	-	-	0	9.85	1	-	-	-
32 31	2	02182	Liquidambar styraciflua	smt sap	1.0	10	-	-	-	0	9.95	1	-	-	-
32 31	2	02183	Juniperus virginiana	smt sap	1.5	130	-	-	-	0	2.0	1	-	-	-
32 31	2	02184	Ulmus alata	smt	3.3	130	-	-	-	-1.7	3.2	1	-	-	-
32 31	2	02185	Acer saccharum	sap	1.8	10	-	-	-	0	1.4	1	-	-	-
32 31	2	02186	Juniperus virginiana	smt	4.4	130	-	-	-	-1.7	2.4	1	-	-	-
32 31	4	02187	Pinus virginiana	sbt	31.8	130	3	9.2	7.3	-1.6	10.2	1	-	-	-
32 31	4	02188	Liriodendron tulipifera	sbt	25.8	130	3	6.9	6.1	-1.6	13.7	1	-	-	-
32 31	4	02189	Liriodendron tulipifera	smt	3.6	130	-	-	-	-1.3	1.9	1	-	-	-
32 31	4	02190	Liquidambar styraciflua	smt	3.9	130	-	-	-	-1.7	2.8	1	-	-	-
32 31	4	02191	Liquidambar styraciflua	smt	4.6	130	-	-	-	-1.6	2.0	1	-	-	-
32 31	4	02192	Liriodendron tulipifera Liriodendron tulipifera Elaeagnus umbellata	smt smt sms	1.8	130	-	-	-	-	-	1	-	-	-
32 31	-	02192	Elaeagnus umbellata	sms	-	-	-	-	-	-	-	-	-	-	-
32 31	-	02192	Elaeagnus umbellata	sms	-	-	-	-	-	-	-	-	-	-	-
32 31	-	02193	Lonicera japonica	lia	1.2	130	-	-	-	-	-	1	-	-	-
40	2	02194	Juniperus virginiana	sbt	16.5	130	3	5.6	4.5	-1.4	5.6	1	-	-	-

plotID	measuredBy D. McFarrell, C. Jordan												
date YYYYMMDD	recordedBy M. Camberland												
nestedSubplotArea lianas													
nestedSubplotArea sapling, shrub, small tree													
sub plotID	nested Subplot ID	tagID	stem Diameter 0.1 cm	msrmt Height 1 cm	* max Canopy Diameter 0.1 m	* ninety Canopy Diameter 0.1 m	height VD1 0.1 m	height VD2 0.1 m	stem Status	shrub Shape 3-letter code	baseMax Canopy Diameter 1 cm	baseNinety Canopy Diameter 1 cm	remarks
31	4	200	1.8	130	2	2.5	1.9	0	3.8	1	cy1	3.7	-
31	4	200	2.5	139	2	2.5	1.9	0	3.8	1	cy1	4.3	-
31	4	200	2.1	139	2	2.5	1.9	0	3.8	1	cy1	3.5	-
31	4	201	1.9	139	2	2.7	1.8	0	2.9	1	cy1	-	-
31	4	204	1.4	130	2	1.4	1.7	0	2.7	1	cy1	2.6	-
31	4	204	1.1	130	2	1.6	1.7	0	2.7	1	cy1	2.3	-
31	4	204	1.3	130	2	1.8	1.7	0	2.7	1	cy1	2.3	-
31	4	225	1.2	130	2	2.0	1.5	0	2.6	1	cy1	-	-
31	4	225	1.2	130	3	1.7	1.3	0	2.7	1	cy1	2.5	-
31	4	225	1	130	3	1.7	1.3	0	2.7	1	cy1	2.5	-
31	4	229	1.1	130	3	1.7	1.3	0	2.7	1	cy1	1.5	-
31	1	203	2.1	139	2	2.0	1.4	0	2.7	1	cy1	-	-
31	1	230	1.5	130	2	1.4	1.2	0	2.5	1	cy1	-	-
31	1	227	1.1	10	-	2.1	1.3	0	2.1	1	hsp	-	-
31	1	227	2.1	10	-	2.1	1.3	0	2.1	1	hsp	-	-
32	4	232	1	130	2	3.1	2.6	0	3.0	1	hsp	2.3	-
32	4	232	1.3	130	2	3.1	2.6	0	3.0	1	hsp	2.5	-
32	4	232	1.6	130	2	3.1	2.6	0	3.0	1	hsp	3.1	-
32	4	232	1.8	130	2	3.3	2.6	0	3.0	1	hsp	3.2	-
31	1	228	1.2	130	2	1.7	1	0	1.7	1	cy1	-	-
32	4	234	1.7	130	2	2.4	2.3	0	2.7	1	cy1	3.2	-
32	4	234	1.2	130	2	2.4	2.3	0	2.7	1	cy1	2.6	-
32	4	234	1.8	139	2	2.4	2.3	0	2.7	1	cy1	2.2	-
31	1	235	3.0	130	2	2.2	2.0	0	2.9	1	cy1	-	-
31	1	237	2.3	110	-	-	-	0	2.5	1	cy1	-	-
46	1	238	1.8	10	-	-	-	0	2.1	1	cy1	-	-

* 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.

sub plotID	nested Subplot ID	tagID	stem Diamtr 0.1 cm	msrmt Height 1 cm	* canopy Position	* max Canopy Diameter 0.1 m	* ninety Canopy Diameter 0.1 m	height VD1 0.1 m	height VD2 0.1 m	stem Status	shrub Shape 3 letter code	baseMax Canopy Diameter 1 cm	baseNinety Canopy Diameter 1 cm	remarks
41	1	239	1.4	10	-	-	-	0	1.6	1	-	-	-	
41	1	240	1.4	10	-	-	-	0	1.8	1	-	-	-	
41	4	249	1.2	10	-	-	-	0	1.8	1	-	-	-	
41	4	251	1.5	10	-	1.5	.9	0	2.0	1	61	-	-	
41	4	251	1.5	10	-	1.5	.9	0	2.0	1	61	-	-	
41	3	243	1.6	130	2	3.0	2.9	0	3.6	1	61	3.1	-	
40	3	243	1.6	130	2	3.0	2.9	0	3.6	1	61	2.7	-	
40	3	243	1.4	139	2	3.0	2.9	0	3.6	1	61	3.0	-	
40	3	245	2.1	10	-	-	-	0	2.3	1	-	-	-	
40	3	248	2.4	10	-	2.1	1.7	0	1.9	1	61	-	-	
40	3	248	2.4	10	-	2.1	1.7	0	1.9	1	61	-	-	
40	3	248	1.8	10	-	2.1	1.7	0	1.9	1	61	-	-	

* 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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Vegetation Structure Datasheets SOP C: Biomass and Productivity- Apparent Individuals

PlotID	ORNL_035				measuredBy	nestedSubplotArea lianas									
date	2015/1/8				recordedBy	M. Cumberland									
YYMMDD						10 M ²									
sub plot ID	nested Subplot ID	tagID	species	growth form	stem Diameter (cm)	measure ment Height (cm)	canopy Position	canopy diameterM ax	canopy diameter9 0	heightVD 1	heightVD 2	stem Status	shrub shape	BaseMax Can diam	Base 90 canopy
31	01 02001		Pinus taeda	sbt	14.6	130	3	4.1	3.4	-1.1	12.5	1	-	-	-
31	01 02002		Liquidambar styraciflua	smt	1.9	130	-	-	-	0	3.5	1	-	-	-
31	01 02003		Vaccinium arboreum	smt	1.3	10	-	-	-	0	1.6	1	-	-	-
31	02003		Vaccinium arboreum	sms											
31	01 02004		unknown	smt	3.0	135	-	-	-	0	3.8	2	-	-	-
31	01 02005		Juniperus virginiana	smt	2.8	130	-	-	-	0	2.86	1	-	-	-
31	01 02006		unknown	smt	2.2	130	-	-	-	0	3.5	2	-	-	-
31	01 02007		Nyssa sylvatica	smt	1.2	130	-	-	-	0	2.5	1	-	-	-
31	01 02008		Vaccinium arboreum	smt	1.0	130	-	-	-	0	1.9	1	-	-	-
31	01-02008		Vaccinium arboreum	sis											
31	01 02009		Liquidambar styraciflua	smt	2.0	130	-	-	-	0	3.4	1	-	-	-
31	01 02010		Pinus virginiana	sbt	10.7	130	3	3.5	3.0	-1.5	9.9	1	-	-	-
31	01 02011		Pinus taeda	sbt	13	130	3	4.5	3.3	-2.6	10.9	1	-	-	-
31	01 02012		Quercus montana	sap	1.0	10	-	-	-	0	0.8	1	-	-	-
31	01 02013		unknown	smt	1.3	10	-	-	-	0	1.6	2	-	-	-
31	04 02014		unknown Pinus	smt	5.6	130	-	-	-	-1.7	5.2	2	-	-	-
31	04 02015		Pinus virginiana	smt	3.5	130	-	-	-	-1.5	8.6	1	-	-	-
31	04 02016		Pinus virginiana	smt	12.1	130	3	3.4	4.2	-1.3	10.2	1	-	-	-
31	04 02017		Pinus virginiana	smt	4.5	130	-	-	-	-1.7	5.2	1	-	-	-
31	04 02018		unknown Pinus	smt	3.9	130	-	-	-	-1.8	3.8	1	-	-	-
31	04 02019		Pinus taeda	smt	11.7	130	3	3.3	2.3	-1.5	10.4	1	-	-	-

sub plot ID	nested Subplot ID	tagID	species	growth form	stem Diameter (cm)	measure ment Height (cm)	canopy Position	canopy diameterM ax	canopy diameter9 0	heightVD 1	heightVD 2	stem Status	shrub shape	BaseMax Can diam	Base 90 canopy
31	04 02020		unknown	smt	1.6	130	-	-	-	0	4.3	2	-	-	-
31	04 02021		Liquidambar styraciflua	smt	2.5	130	-	-	-	-1.4	3.5	1	-	-	-
31	04 02022		Pinus virginiana	smt	6.0	130	-	-	-	-1.2	6.8	1	-	-	-
31	04 02023		Liquidambar styraciflua	smt	3.1	130	-	-	-	0	6.5	1	-	-	-
31	04 02024		Liquidambar styraciflua	smt	9.4	130	-	-	-	-1.2	9.1	1	-	-	-
31	2 02025		Pinus virginiana	sbt	13	130	3	4.4	3.8	-2.5	10.2	1	-	-	-
31	2 02026		Pinus taeda	sbt	14.4	130	3	3.3	2.9	-2.0	11.7	1	-	-	-
31	2 02027		Pinus taeda	sbt	15.7	130	3	3.8	2.8	-2.0	13.1	1	-	-	-
31	2 02028		Pinus taeda	sbt	12.4	130	3	3.8	3.1	-1.5	10.6	1	-	-	-
40-32	02 02029		Pinus taeda unknown	sbt	11.4	130	3	2.8	2.4	-1.8	11.2	1	-	-	-
32	02-02030		unknown	smt											
32	02 02031		Quercus falcata	smt	3.8	130	-	-	-	-1.3	4.2	1	-	-	-
32	02 02032		Quercus stellata	sap	2.2	10	-	-	-	0	1.4	2	-	-	-
32	02 02033		Liquidambar styraciflua	sbt	25.2	130	3	3.8	4.2	-1.3	13.6	1	-	-	-
32	02 02034		unknown	sap	1.8	10	-	-	-	0	1.5	2	-	-	-
32	02 02035		Cornus florida	sap	1.4	10	-	-	-	0	1.7	1	-	-	-
32	02 02036		Cornus florida	smt	2.9	130	-	-	-	-1.0	3.0	1	-	-	-
32	02 02037		unknown Pinus sp	smt	2.0	130	-	-	-	0	2.3	2	-	-	-
32	02 02038		Pinus virginiana	smt	9.5	130	-	-	-	-1.0	10.4	1	-	-	-
32	02 02039		Pinus taeda	smt	8.0	130	-	-	-	-1.3	9.1	1	-	-	-
32	2 02040		Pinus taeda	sbt	18.5	130	3	5.6	2.9	-1.7	13.5	1	-	-	-
32	04 02041		Pinus taeda	smt	8.7	130	-	-	-	-1.1	10.0	1	-	-	-
32	04 02042		Pinus virginiana	smt	6.2	130	-	-	-	-1.1	9.1	1	-	-	-
32	04 02043		Prunus serotina	smt	2.4	130	-	-	-	0	4.6	1	-	-	-
32	04 02044		Pinus virginiana	smt	5.2	?	-	-	-	-1.1	5.1	1	-	-	-

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Vegetation Structure Datasheets SOP C: Biomass and Productivity- Apparent Individuals

PlotID	ORNL_007				measuredBy	D. Mitchell, C. Duncan				nestedSubplotArea	lianas					
date	20151117				recordedBy	M. Connerland				nestedSubplotArea	25m2					
YYMMDD									sapping, shrub, small tree							
sub plot ID	nested Subplot ID	tagID	species	Growt h form	stem Diameter (cm)	measure ment Height (cm)	canopy Position	canopy diameter Max	canopy diameter 0	heightv D1	heightv D2	stem Status	shrub shape	BaseMax Can diam	Base 90 canopy	
31	1	02445	Liriodendron tulipifera	sap	1.6	10	-	-	-	0	2.2	1	-	-	-	
31	1	02446	Liriodendron tulipifera	smt	2.3	130	-	-	-	0	4.0	1	-	-	-	
31	1	02447	Quercus falcata	smt	1.4	130	-	-	-	0	2.6	1	-	-	-	
31	1	02448	Acer rubrum	smt	3.4	130	-	-	-	0	5.5	1	-	-	-	
31	1	02449	Carya tomentosa	sbt	4.6	130	3	17.4	11.9	-1.4	29.0	1	-	-	-	
31	4	02454	Vitis rotundifolia	lia	6.1	130	-	-	-	-	-	1	-	-	-	
31	1	02457	Ilex opaca	sap	2.2	10	-	-	-	0	1.2	1	-	-	-	
31	4	02458	Asimina triloba	smt	1.3	130	-	-	-	0	2.5	1	-	-	-	
31	1	02459	Toxicodendron radicans	lia	1.4	130	-	-	-	-	-	1	-	-	-	
31	4	02460	Cercis canadensis	sap	1.4	10	-	-	-	0	1.4	1	-	-	-	
31	02463 Asimina triloba															
31	1	02465	Acer rubrum	sap	1.4	10	-	-	-	0	1.8	1	-	-	-	
31	4	02466	Celtis occidentalis	sbt	1.6	130	4	10.4	6.1	-0.1	10.0	1	-	-	-	
31	4	02467	Asimina triloba	smt	1.6	130	-	-	-	0	2.6	1	-	-	-	
31	4	02468	Acer saccharum	smt	4.0	130	-	-	-	0	5.2	1	-	-	-	
31	4	02469	Acer saccharum	smt	2.9	130	-	-	-	0	4.3	1	-	-	-	
31	4	02470	Prunus serotina	sbt	1.4	139	4	8.2	2.7	-2.4	14.0	1	-	-	-	
31	4	02471	Quercus falcata	sap	1.3	10	-	-	-	0	1.1	1	-	-	-	
32	2	02472	Liquidambar styraciflua	sbt	14.2	130	4	6.7	3.5	-1.8	13.5	1	-	-	-	
32	2	02473	Rhamnus caroliniana	sap	1.1	10	-	-	-	0	1.7	1	-	-	-	
32	2	02474	Rhamnus cerifolia	sap	3.9	130	-	-	-	-2.1	3.8	1	-	-	-	

- 0 15.8

sub plot ID	nested Subplot ID	tagID	species	growt h form	stem Diameter (cm)	measure ment Height (cm)	canopy Position	canopy diameter Max	canopy diameter 0	heightv D1	heightv D2	stem Status	shrub shape	BaseMax Can diam	Base 90 canopy
32	2	02475	Toxicodendron radicans	lia	5.8	130	-	-	-	-	-	1	-	-	-
32	2	02476	Toxicodendron radicans	lia	1.9	130	-	-	-	-	-	1	-	-	-
32	2	02477	Liriodendron tulipifera	sbt	55.2	130	2	12.8	10.1	-2.9	26.5	1	-	-	-
32	1	02480	Vitis rotundifolia	lia	5.9	130	-	-	-	-	-	1	-	-	-
32	1	02481	Quercus falcata	sbt	5.2	130	2	18.7	11.8	-1.8	23.0	1	-	-	-
32	1	02486	Quercus <i>Carpa</i>	sbt	12.7	130	4	7.2	-	-1.7	5.0	2	-	-	-
32	1	02487	Acer rubrum	sbt	35	130	3	13.6	8.4	-2.8	20.8	1	-	-	-
32	2	02488	Nyssa sylvatica	smt	2.1	130	-	-	-	0	2.5	1	-	-	-
32	4	02493	Juniperus virginiana	sbt	25.8	130	3	5.9	3.7	-2.0	15.8	1	-	-	-
32	4	02494	Carpinus caroliniana	sap	1.8	10	-	-	-	0	1.8	1	-	-	-
32	4	02495	Cornus florida	smt	-	-	-	-	-	-	-	-	-	-	-
32	4	02496	Cornus florida	smt	6.6	130	-	-	-	-3.2	3.6	1	-	-	-
32	4	02497	Fraxinus pennsylvanica	sbt	16.5	130	3	4.3	3.4	-2.9	13.1	1	-	-	-
40	1	02498	Asimina triloba	smt	1.6	130	-	-	-	0	3.0	1	-	-	-
40	1	02499	Asimina triloba	sap	1.8	10	-	-	-	0	2.3	1	-	-	-
40	1	02501	Asimina triloba	sap	1.9	10	-	-	-	0	2.2	1	-	-	-
40	1	02502	Asimina triloba	sap	1.5	10	-	-	-	0	1.8	1	-	-	-
40	2	02504	Prunus serotina	sbt	31.6	130	3	19.4	7.4	-1.7	16.4	1	-	-	-
40	2	02507	Juniperus virginiana	sbt	3.0	130	3	6.1	5.9	-1.5	15.3	1	-	-	-
40	2	02509	Acer rubrum	sap	-	-	-	-	-	-	-	-	-	-	-
40	3	02512	Fagus grandifolia	sap	1.9	10	-	-	-	0	2.3	1	-	-	-
40	3	02514	Prunus serotina	smt	8.2	130	-	-	-	-0.7	5.8	1	-	-	-
41	1	02517	Fraxinus pennsylvanica	sap	1.3	10	-	-	-	0	1.4	1	-	-	-
41	1	02518	Acer rubrum	sap	1.5	10	-	-	-	0	1.5	1	-	-	-
41	1	02519	Acer rubrum	sap	1.1	10	-	-	-	0	3.0	1	-	-	-

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Vegetation Structure Datasheets SOP C: Biomass and Productivity- Apparent Individuals

PlotID	ORNL_002				measuredBy	nestedSubplotArea lianas									
date					recordedBy	nestedSubplotArea									
YYMMDD 29151104					M.Cumberland	sapling,shrub,small tree									
sub plot ID	nestID	tagID	species	growth form	stem Diameter (cm)	measured nt Height (cm)	canopy Position	canopy diameter Max	canopy diameter 90	height D1	height D2	stem Status	shrub shape	BaseMax Can diam	Base 90 canopy
31	1	00890	Acer saccharum	SMT	2.9	130	-	-	-	-10.0	-4.4	1	-	-	-
31	1	00891	Fagus grandifolia	SMT	5	130	-	-	-	-11.3	-4.7	1	-	-	-
31	1	00892	Acer rubrum	SBT	19.2	130	3	10.1	8.4	-10.5	4.2	1	-	-	-
31	1	00893	Fagus grandifolia	SAP	2.1	10	-	-	-	0	1.40	1	-	-	-
31	1	00894	Fagus grandifolia	SMT	4.7	130	-	-	-	-9.7	-5.1	1	-	-	-
31	1	00895	Fagus grandifolia	SMT	1.2	130	-	-	-	0	2.45	1	-	-	-
31	2	00896	Oxydendrum arboreum	sap	1.5	10	-	-	-	0	1.25	1	-	-	-
31	2	00897	Oxydendrum arboreum	SBT	12.0	130	4	5.0	-	-4.1	2.9	2	-	-	-
31	2	00898	Fagus grandifolia	sap	1.2	10	-	-	-	0	1.60	1	-	-	-
31	2	00899	Fagus grandifolia	smt	1.1	130	-	-	-	0	2.30	1	-	-	-
31	2	00900	Acer rubrum	sbt	51.2	130	3	20.5	16.3	-3.7	18.4	1	-	-	-
31	2	00901	Quercus montana	sbt	27.5	130	3	13.7	10.5	-6.9	11.2	1	-	-	-
31	2	00902	Nyssa sylvatica	smt	3.4	130	-	-	-	-4.5	0.9	7	-	-	-
31	2	00903	Fagus grandifolia	smt	1.4	130	-	-	-	0	2.42	1	-	-	-
31	2	00904	Fagus grandifolia	smtsap	1.3	10	-	-	-	0	2.35	1	-	-	-
31	2	00905	Fagus grandifolia	smt	1.6	130	-	-	-	0	2.22	1	-	-	-
31	4	00906	Fagus grandifolia	smt	3.0	130	-	-	-	-2.5	1.8	1	-	-	-
31	4	00907	Fagus grandifolia	smt	2.2	130	-	-	-	0	2.78	1	-	-	-
31	4	00908	Liriodendron tulipifera	sbt	13.5	130	3	3.5	3.3	-7.6	10.3	1	-	-	-
31	3	00909	Fagus grandifolia	smt	1.4	130	-	-	-	-2.1	0.1	1	-	-	-
31	3	00910	Fagus grandifolia	smt	4.8	130	-	-	-	-2	2.3	1	-	-	-

D. Mitchell, C. J. S. J. S. J. S.

M. Cumberland

None

None

sub plot ID	nest d Subpl ot ID	tagID	species	growth form	stem Diameter (cm)	measure nt Height (cm)	canopy Positio n	canopy diameter Max	canopy diameter 90	heightV D1	heightV D2	stem Status	shrub shape	BaseMax Can diam	Base 90 Canc
31	3	00911	Fagus grandifolia	smt	10.6	130	4	9.5	7.1	-9.9	2.7	1	-	-	-
40	1	00912	Nyssa sylvatica	sbt	38.3	130	3	14.2	13.3	-9.1	12.4	1	-	-	-
40	1	00913	Fagus grandifolia	smt	1.3	130	-	-	-	0	2.41	1	-	-	-
40	1	00914	Oxydendrum arboreum	smt	11.3	130	4	10.3	1.5	-8.9	4.5	2	-	-	-
-40	-	00915	Oxydendrum arboreum	sbt											
40	4	00916	unknown <i>Oxydendrum arboreum</i>	smt	7.9	130	-	5.9	-	-7.1	5.3	2	-	-	-
40	2	00917	Fagus grandifolia	smt	1.5	130	-	-	-	-6.5	-8.6	1	-	-	-
40	2	00918	Fagus grandifolia	sbt	1.7	130	3	9.7	7.4	-8.2	8.2	1	-	-	-
40	4	00919	Liquidambar styraciflua	sbt	31.1	130	3	9.7	11.0	-8.4	14.5	1	-	-	-
40	3	00920	Fagus grandifolia	smt	3.8	130	-	-	-	-4.8	1.0	1	-	-	-
40	3	00921	Acer rubrum	sbt	13.3	130	3	6.5	4.9	-4.3	13.8	1	-	-	-
41	4	00922	Fagus grandifolia	smt	2.1	130	-	-	-	0	2.86	1	-	-	-
41	3	00923	Fagus grandifolia	sap	1.6	10	-	-	-	0	1.50	1	-	-	-
41	1	00924	Fagus grandifolia	smt	2.2	130	-	-	-	-4.5	0.6	1	-	-	-
41	1	00925	Fagus grandifolia	smt	1.6	130	-	-	-	-3.5	-0.4	1	-	-	-
41	1	00926	Fagus grandifolia	smt	4.1	130	-	-	-	-2.9	1.9	1	-	-	-
41	2	00927	Fagus grandifolia	smt	2.9	120	-	-	-	-2.7	1.0	1	-	-	-
41	2	00928	Fagus grandifolia	sap	1	10	-	-	-	0	1.48	1	-	-	-
41	4	00929	Fagus grandifolia	mbt	25.1/14.4	130	3	11.4	8.9	-5.1	19.7	1	-	-	-
41	2	00930	Acer rubrum	mbt	28.4/19.0	130	3	11.7	7.9	-1.4	16.1	1	-	-	-
41	2	00931	Fagus grandifolia	sap	1.1	10	-	-	-	0	0.29	1	-	-	-
41	2	00932	Fagus grandifolia	smt	6.2	130	-	-	-	-1.7	4.5	1	-	-	-
41	2	00933	Fagus grandifolia	smt	1.4	130	-	-	-	0	2.21	1	-	-	-
41	2	00934	Fagus grandifolia	smt	4.8	130	-	-	-	-2.3	3.5	1	-	-	-
41	4	00935	Acer rubrum	smt	1.4	130	-	-	-	-2.2	0.1	1	-	-	-

2.7 74

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Vegetation Structure Datasheets SOP C: Biomass and Productivity- Apparent Individuals

PlotID	ORNL_006			measuredBy	D. Mitchell, C. Jureau			nestedSubplotArea	lianas						
date	20151117			recordedBy	M. Cumberland			nestedSubplotArea	25m2						
YYMMDD							sapping, shrub, small tree								
sub plot ID	nested Subplot ID	tagID	species	growt h form	stem Diameter (cm)	measure ment Height (cm)	canop y Positi on	canopy diameterM ax	canopy diameter9 0	heightVD1	heightVD 2	stem Status	shrub shape	BaseMax Can diam	Base 90 canopy
31	1	01823	Acer rubrum	smt	2.7	130	-	-	-	0	4.5	1	-	-	-
31	1	01824	Acer rubrum	smt	1	130	-	-	-	0	1.8	1	-	-	-
31	1	01825	Acer rubrum	smt	1.0	130	-	-	-	0	1.4	1	-	-	-
31	1	01826	Ostrya virginiana	sbt	12.3	130	4	6.3	4.8	-5.4	7.5	1	-	-	-
31	1	01828	Fagus grandifolia	smt	6.3	130	-	-	-	-4.0	6.0	1	-	-	-
31	1	01830	Fagus grandifolia	smt	3.4	130	-	-	-	0	3.7	1	-	-	-
31	1	01831	Fagus grandifolia	smt	8.0	130	-	-	-	-2.0	5.3	1	-	-	-
31	1	01832	Prunus serotina	sbt	32.4	130	3	8.9	7.5	-4.3	22.4	1	-	-	-
31	3	01833	Carya tomentosa	sbt	25	130	3	7.5	6.2	-3.5	19.2	1	-	-	-
31	4	01834	Carya tomentosa	sbt	25.2	130	3	6.2	4.9	-2.9	22.7	1	-	-	-
31	4	01836	Acer rubrum	smt	4.2	130	-	-	-	-2.7	3.2	1	-	-	-
31	4	01837	Acer rubrum	smt	1.2	130	-	-	-	0	2.6	1	-	-	-
31	4	01838	Acer rubrum	smt	4.3	130	-	-	-	0	6.1	1	-	-	-
31	4	01839	Oxydendrum arboreum	sbt	11.8	130	4	4.7	2.4	-3.0	12.6	1	-	-	-
31	4	01840	Fagus grandifolia	sap	1.5	10	-	-	-	0	1.4	1	-	-	-
31	4	01841	Acer rubrum	smt	5.3	130	-	-	-	-1.6	5.2	1	-	-	-
31	4	01842	unknown Acer rubrum	smt	1.5	130	-	-	-	0	3.7	7	-	-	-
31	2	01843	Liquidambar styraciflua	smt	3.2	130	-	-	-	0	3.4	1	-	-	-
31	2	01845	Carya tomentosa	sbt	27.5	130	3	6.4	3.9	-4.7	19.0	1	-	-	-
31	4	01846	Acer rubrum	smt	3.0	130	-	-	-	-3.4	2.1	1	-	-	-
31	4	01847	Acer rubrum	smt	6.3	130	-	-	-	-2.5	4.6	1	-	-	-

sub plot ID	nested Subplot ID	tagID	species	growt h form	stem Diameter (cm)	measure ment Height (cm)	canop y Positi on	canopy diameterM ax	canopy diameter9 0	heightVD1	heightVD 2	stem Status	shrub shape	BaseMax Can diam	Base 90 canopy
31	4	01848	Acer rubrum	smt	1.3	130	-	-	-	0	2.2	1	-	-	-
31		01850	Liquidambar styraciflua	sap											
32		01852	Acer rubrum	sap											
32	1	01854	Oxydendrum arboreum	sbt	21.7	130	3	7.4	4.2	-4.4	17.8	1	-	-	-
40 32	1	01855	Oxydendrum arboreum Acer rubrum	sbt	1.0	10	-	-	-	0	0.5	1	-	-	-
32	2	01857	Fagus grandifolia	smt	2.0	130	-	-	-	0	3.6	1	-	-	-
32	2	01859	Carya glabra	sbt	13.8	130	4	7.5	3.6	-4.1	9.0	1	-	-	-
32	2	01860	Liquidambar styraciflua	sbt	39.1	130	3	9.1	6.0	-3.8	22.3	1	-	-	-
32	4	01861	Fagus grandifolia	smt	1.5	130	-	-	-	0	3.5	1	-	-	-
32	4	01862	Acer rubrum	smt	3.4	130	-	-	-	0	5.6	1	-	-	-
32	4	01863	Fagus grandifolia	smt	1.8	130	-	-	-	0	3.2	1	-	-	-
32	3	01864	Carya tomentosa	sbt	35	130	3	7.8	7.2	-2.2	22.8	1	-	-	-
32	3	01866	Carya glabra	sbt	12.7	130	4	4.7	3.0	-2.7	10.1	1	-	-	-
32		01867	Acer rubrum	sap											
32	4	01868	Acer rubrum	smt	3.8	130	-	-	-	-2.0	2.7	1	-	-	-
32		01869	Oxydendrum arboreum	smt											
32		01870	Acer rubrum	smt											
32		01871	Acer rubrum	smt											
32		01872	Acer rubrum	smt											
32	4	01873	Carya tomentosa	sbt	16.1	130	3	7.8	5.1	-3.2	14.8	1	-	-	-
32	4	01874	Fagus grandifolia	smt	2.5	130	-	-	-	0	3.2	1	-	-	-
32	4	01875	Liriodendron tulipifera	sbt	32	130	3	10.3	4.6	-3.8	23.0	1	+	-	-
32	2	01876	Liquidambar styraciflua	sbt	12.1	130	4	5.3	2.9	-3.9	10.1	1	-	-	-
32	4	01877	Acer rubrum	smt	5.7	130	-	-	-	-4.0	2.8	1	-	-	-
32	2	01878	Fagus grandifolia	sap	2.2	10	-	-	-	0	1.7	1	-	-	-

47 10.5 9.9

42.4 5.3 1326

-1.4 15.7

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Vegetation Structure Datasheets SOP C: Biomass and Productivity- Apparent Individuals

PlotID	ORNL_032					measuredBy	C. Janssen, K. Hase					nestedSubplotArea lianas				
date	20151119					recordedBy	M. C. Janssen					nestedSubplotArea sapling, shrub, small tree 10m ²				
YYMMDD																
sub plot ID	nested Subplot ID	tagID	species	growth form	stem Diameter (cm)	measure ment Height (cm)	canopy Positio n	canopy diameterM ax	canopy diameter90	heightVD 1	heightVD 2	stem Status	shrub shape	BaseMax Can diam	Base 90 canopy	
31	01	01203	Acer rubrum	smt	1.3	130	-	-	-	0	2.5	1	-	-	-	
31	1	01204	Liriodendron tulipifera	mht	24.6	130	3	6.5	5.3	-1.0	17.3	1	-	-	-	
31	01-01205	Cornus-florida	Cornus-florida	smt												
31	01	01206	Pinus taeda	smt	6.6	139	-	-	-	-1.1	10.7	1	-	-	-	
31	01	01207	Cornus florida	sis	1.6	130	-	2.5	1.6	0	4.2	1	hsp	2.3	-	
31	01	01208	Cornus-florida	smt	1.2	10	-	-	-	0	0.5	2	-	-	-	
31	01	01209	Cornus florida	sis	1.4	130	-	2.5	1.6	0	4.2	1	hsp	2.0	-	
31	04-01210	Quercus-alba	Quercus-alba	smt												
31	1	01211	Pinus taeda	mht	15.0	130	3	3.5	2.1	-1.5	15.0	1	-	-	-	
31	3	01214	Pinus taeda	sbt	16.8	130	3	3.7	2.8	-2.0	14.1	1	-	-	-	
31	01-01215	Cornus-florida	Cornus-florida	sis												
31	01216	Cornus florida	Cornus florida	sis												
31	04-01217	Cornus florida	Cornus florida	sis												
31	3	01220	Pinus taeda	sbt	15.6	139	3	3.7	2.5	-1.4	13.9	1	-	-	-	
31	3	01221	Pinus taeda	sbt	14	130	3	6.3	2.7	-2.0	14.1	1	-	-	-	
31	3	01225	Pinus taeda	sbt	21.2	139	3	4.7	3.6	-1.1	16.4	1	-	-	-	
31	01226	Pinus-taeda	Pinus-taeda	smt												
31	4	01227	Pinus taeda	sbt	15.3	130	3	4.1	2.3	-1.5	15.9	1	-	-	-	
31	04-01228	Cornus-florida	Cornus-florida	sap												
31	01229	Cornus-florida	Cornus-florida	sis												
31	01-01231	Cornus florida	Cornus florida	smt												

1222

-2.0 14.1

sub plot ID	nested Subplot ID	tagID	species	growth form	stem Diameter (cm)	measure ment Height (cm)	canopy Positio n	canopy diameterM ax	canopy diameter90	heightVD 1	heightVD 2	stem Status	shrub shape	BaseMax Can diam	Base 90 canopy
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31 ~~01232 Pinus taeda~~ ~~smt~~

31 4 01233 Pinus taeda sht

31 4 01234 Pinus taeda sht

31 ~~01236 Pinus taeda~~ ~~smt~~

31 1 01238 Pinus taeda sht

31 3 01239 Pinus taeda sht

31 1 01240 Pinus taeda sht

31 ~~04 01244 Cornus florida~~ ~~smt~~

31 ~~01 01245 Liriodendron tulipifera~~ ~~smt~~

31 ~~01 01246 Cornus florida~~ ~~smt~~

31 ~~01247 unknown~~ ~~smt~~

31 ~~04 01249 Quercus falcata~~ ~~smt~~

31 ~~04 01250 Acer rubrum~~ ~~smt~~

31 ~~04 01251 Acer rubrum~~ ~~smt~~

31 2 01252 Lonicera japonica lia

31 2 01259 Liriodendron tulipifera sht

31 ~~04 01261 Pinus taeda~~ ~~smt~~

31 3 01266 Fagus grandifolia sht

31 4 01269 Pinus taeda sht

31 4 01271 Pinus taeda sht

31 ~~04 01272 Cornus florida~~ ~~smt~~

31 ~~04 01273 Cornus florida~~ ~~smt~~

31 04 01274 Acer rubrum sis

31 04 01275 Pinus taeda smt

31 04 01276 ~~Cornus florida~~ ~~smt~~

31 4 01274 Acer rubrum sis

-1.3
15.1

12	130	3	1.8	1.6	-1.5	14.7	1	-	-
13.1	139	3	1.8	1.8	-1.5	15.0	1	-	-
15.5	130	3	3.4	2.4	-1.2	13.8	1	-	-
14.7	139	3	2.6	1.6	-1.7	15.0	1	-	-
16.6	130	3	3.7	2.5	-1.3	15.3	1	-	-
17.2	130	3	5.0	4.4	-1.9	14.1	1	-	-
19.4	140	4	8.1	5.9	-2.0	6.0	1	-	-
14.4	130	3	3.8	2.3	-1.8	9.0	1	-	-
17.1	130	3	3.4	3.3	-1.3	15.1	1	-	-
2.1	130	-	2.5	1.7	0	3.8	1	0.1	3.0
8.1	130	-	-	-	-1.5	6.9	1	-	-
9.4	130	-	-	-	-1.6	9.1	1	-	-
1.7	130	-	2.5	1.7	0	3.8	1	0.1	2.1