## Plot Data: CVS Levels 1 & 2

GENERAL INFORMATION	LOCATION	N	PLOT DIAGRAM  Fill in <i>ONE</i> of the templates below, using the key to draw GPS location, photos and posts. Edit shape if
Project Label:	General:		plot doesn't match one of the templates. Draw any landmarks, such as streams, banks, fences, etc.
Project Name:	State: County:		Standard 10m x 10m Non-standard 5m x 20m (14.142m diagonal): (20.616m diagonal): Key
Team:	Quadrangle:		(meters) Plot origin
Plot:	Place Names: 1)		(0,0) point (0,0) Figure (0,0)
☐ Level 1 (planted stems only) ☐ Level 2 (planted and natural stems)	2) 3) <b>EEP Reach:</b>		Bearing of Plot ( , ) point ( , ) photo taken,
Start Date: / / dd/mmm/yyyy e.g. 15 / JAN / 2007	Land Owner:		X-Axis: with direction posts
End Date (if different): / /	$\bigotimes \frac{\text{GPS}}{x} \frac{\text{Receiver } \text{Location}}{y^2}$		Plot Size (ares, default=1): Photo
Party Role**  Plot Leader	Coordinate System:  □ Lat/Long □ UTM □ State Plane □ Other (specify):	Coord. Units:  □ deg. □ deg. min. □ deg. min. sec. □ m □ ft □	(An "are" is 100 m²)  Identifier(s):  NOTES  If more space is needed, check box and use back of datasheets.
	Datum:  □ NAD83/WGS84 □ NAD27	Zone: (if applicable)	Layout: (anything unusual about plot layout and shape)
	<u>Lat</u> :	(or Northing)	
	Long:	(or Easting)	□ more
	Coordinate Accuracy (m r	radius):	Plot Location: (directions to plot, landscape content)
**Roles: Co-leader, Assistant, Guide, Land owner, Taxonomist, Other	GPS File Name:		
Soil Drainage*	SITE CHARACTE	RISTICS	
<ul> <li>□ Excessively drained</li> <li>□ Somewhat excessively drained</li> <li>□ Well drained</li> </ul>	Elevation:  Slope (degrees):  Aspect (degrees):	± □m □ft.	Plot Rationale: (why location was chosen for the plot)
<ul><li>☐ Moderately well drained</li><li>☐ Somewhat poorly drained</li></ul>	Compass Type: □ magnet	ic 🗆 true	
<ul><li>□ Poorly drained</li><li>□ Very poorly drained</li></ul>	Plot Placement  □ Representative □ Random	(check 1 or more)	Other Notes: (invasive species, erosion, disturbances, etc.)
WATER Percent of Plot Submerged:  Mean Water Depth:  cm	<ul> <li>☐ Random</li> <li>☐ Stratified</li> <li>☐ Transect component</li> <li>☐ Systematic (grid)</li> <li>☐ Capture specific feature</li> </ul>	Further details of placement can be recorded in Plot Rationale.	
TAXONOMIC STANDARD U			
Authority:	<u></u>		□ more

## **Plot Data: CVS Level 3**

GENERAL INFORMATIO  Project Label:  Project Name:  Team:		LOCATI	ON			IAGRAM:	Hydrologic Regime*
Project Label:		General:		Draw plot bou below. Also is	indaries and show location indicate X and Y dimension	of any landmarks and objects in the key as of plot, in meters.	☐ Intermittently/seasonally saturated (seldom flooded)
Project Name:		State: County:		<del>-</del>	$Y_{\spadesuit}$		☐ Permanently/ semipermanently satu-
Team:		Quadrangle:		_			rated (dry < 1 / yr, seldom flooded)  Occasionally flooded (<1 / yr)
Plot:		Place Names: 1)		<u> </u>			☐ Temporarily flooded☐ Intermittently flooded☐
Date (dd/mmm/yyyy):	/ /	,	3)				☐ Semipermanently flooded ☐ Permanently flooded
End Date (if > 1 day):		(2)	3)	-			☐ Tidally flooded - daily ☐ Tidally flooded - monthly
Party	Role**	EEP Reach:		PLOT X- AXIS	<u> </u>	X	☐ Tidally flooded - irregular (wind, storms)
1 0105	Plot Leader	Land Owner:		BEARING:	o _		□ Unknown
		Source of coordinates (ma	ap, GPS):	Kow OP	ot origin GPS loca-	Photo taken. Location	WATER Percent of Plot Submerged: %
		$\bigotimes_{x=}^{GPS}$ location in plot (	meters):	Key. O	ot origin GPS loca- ,0) point tion point	Photo taken, with direction of posts	Mean Water Depth:cm Closest Dist. to Shore:m
		X = y	=	Plot Size (are	es):	→ Photo Identifier(s):	Landform Type*:
		<b>Coordinate System:</b>	Coord. Units:	T	l.:. D:4:		Editoria Type .
**Roles: Co-leader, A	ssistant, Guide,	☐ Lat/Long ☐ UTM ☐ State Plan ☐ Other (specify):	ne □ deg. □ deg. min. □ m □ ft □	□ Interfluve (o	raphic Position* crest, summit, ridge)	No <sup>*</sup>	ΓES
Land owner, Tax		Datum:	Zone:	☐ High slope (☐ High level	(shoulder, upper, convex)	If more space is needed, check th	e box and use back of datasheets
Soil Drainage*	Salinity*	□ NAD83/WGS84 □ NAD27	(if applicable)	□ Midslope	1:00	Layout: (anything unusual about ]	plot layout and shape)
□ Excessively drained	$\square$ Saltwater	Lat:	(or Northing)	☐ Backslope (☐ Step in slop	e		
<ul><li>□ Somewhat excessively</li><li>□ Well drained</li></ul>	□ Brackish	-		□ Toeslope	ower, foot, colluvial)		
<ul><li>☐ Moderately well d.</li><li>☐ Somewhat poorly d.</li></ul>	□ Fresh	Long:	(or Easting)	☐ Low level (1☐ Channel wa			□ more
□ Poorly drained □ Very poorly drained	□ Upland (n/a)	Coordinate Accuracy (1	n radius):		d (valley bottom)	Plot Location: (directions to plot,	landscape content)
	= opiana (n/a)	GPS File Name:		□ Other:			
Soil Series / Type: Soil Series Source:				Cove	R BY STRATA		
Soil Texture*:		SITE CHARACT	_	Canopy He	ight (m):		□ more
Rock Type*:			± ⊔m □ft.	Strata	Height Total	Plot Rationale: (why location was	s chosen for the plot)
Surficial Deposits*:		Slope (degrees):			Range (m) Cover (%)	-	
Soil Descr.:		Aspect (degrees):		Tree	-		
		Compass Type:   magn		${f S}$ hrub	-		□ more
<b>Classification*</b> Fit: Provisional comm.	excellent,good, f	air, poor; Conf: high, med, low	Plot Placement: (check 1 or more)	<b>H</b> erb	-	Vegetation: (characterization of c	ommunity, dominants, and
Comm.(1)			□ Representative	( <b>F</b> loating)	_	principle strata)	·· ·y, ··· · · · · · · · · · · · · · · ·
Comm.(2)		Fit=_Conf=_	<ul><li>□ Random</li><li>□ Stratified</li></ul>			-	
Classifier		Date//	☐ Transect component	( <b>A</b> quatic Submerged)	-		
TAXONOMIC ST Authority:			□ Systematic (grid) □ Capture specific feature	Strata in parer	otheses often not present, filled in if they exist.		□ more

## Plot Data: CVS Levels 4 & 5

GENER	AL I	NFOR	MAT	ION	LOCATIO	ON		OT DIAGR		Standard one module plot:  Y (14.142m diagonal)										
Project L	<u>abel</u> :				General:		or one on th	emplate below (2 e right (1 modul	e plot),	2 (20.616m diagonal)										
Project Na	ıme:				State: County	<i>7</i> :		y below. Edit si how actual arrar		5		Y▲	`							
Team:					Quadrangle:		modules, sa of any landr	mpled corners, a narks.	and location				1	2		3				
Plot:					Place Names: 1)		Y.	<b>A</b>		<b>6</b> 1	4	х ф	) <sup>1</sup>		1		►X			
□ Level 4 (n					2) 3)		2-10		3	4	3	4								
Date (dd/m	ımm/yy	y): /	,	/	Land Owner:		module plot:	#10		#9	#8	$\overline{}$	#7		#0	6				
End Date			/	/	Data Confidentiality: Check one:  Public Data	□ Private Data		#10		πλ		,	π,		, m	J				
P	arty		R	ole**	□ Fuzz 1 km □ Fuzz 10 km			<b>5</b> )	2	1	2	1								
	-		Ple Le	ot ader	Reason: If data not public, why?		Plot X- Axis	"1	1	2	1	2	".4		.,,	-	X			
					Source of coordinates (ma	p, GPS):	Bearing:	#1		#2	#3		#4		#:	5				
					GPS location in plot	(meters):			4	3	4	3								
					<b></b>	<i>i</i> =	Diagram	Plot ori	gin 🚫	GPS locati	on O		to taken,	•	location		_			
					Coordinate System:  □ Lat/Long □ UTM □ State Plane □ Other (specific):	Coord. Units: □ deg. □ deg. min. □ m □ ft □	Key: Plot Size f	(0,0) poor Cover Dat		point		]	direction NOTES		permane		<u>s</u>			
**Roles: Co-leader, Assistant, Guide,				Guida	_	Zone: (if applicable)	☐ Stems j	ot sampled on the present $\square$ Stems (a	s absent 🕤				ck the box ar bout plot la							
					<u>Lat</u> :	<b>Depth</b> (1-		evel 5 Only)	)											
SAMP				Y*			Intensive	Modules:												
□ Very	thorou	t Level	:		Long:	(or Easting)	$\bigcap \rightarrow P^{[]}$	hoto Identific	er(s):	Plot Location: (directions to plot, landscape content)										
□ Hurr	ied				Coord. Accuracy (m radiu	s):														
		c Accurate A			GPS File Name:			ER BY STE	RATA											
Category	High	Mod-	Low	Not sampled	SITE CHARACT	ERISTICS	Canopy H	leight (m):								□ m	ore			
Vascular:		erate		n/a	Elevation:	± □m □ft.	<u>Strata</u>	Height Range (m)	Total Cover (%	Plot Rationale: (why location was chosen for the plot)										
Bryophyte:	Slope (degrees):				<u> </u>		Tree			-										
Aspect (degrees):				Aspect (degrees):  Compass Type: □ magn	etic □ true	Shrub	_													
Classification* Fit:excellent,good, fair, poor; Conf: high						Plot Placement:	Herb									□ m	ore			
Provisional comm						(check 1 or more)  Representative		-		Vegetation	`	erization	of commi	unity,	dominant	s, and				
Comm.(2)Fit=					Fit- Conf-	Random	(Floating)	-		principle s	strata)						o			
Classifier					Date/_/_   Stratified   (A			-								$\mathbf{V}$				
TAXONOMIC STANDARD USED FOR PLANT Authority:, Publ. Date:					SED FURILANIS	Systematic (grid) Capture specific feature		rentheses often roe filled in if the							□ m	ore	E R			

SOIL INSTRUCTIO	NS		SOIL D	EPTHS	EAR	RTH SU	RFA(	CE & (	GROUND COVE	CR .	<b>McNab</b>	LFI:	TSI: Terrain
<u>Depths (right)</u> : After mea a corner (at the circle) cro	_	Length of	soil probe:	cm	Underly		rth		<b>Ground Cover</b>	:	INDICES (degrees)	Landfor Index	-
out on the diagram below.		standard co	rners given b	elow, correct if needed		rface:				1	+ for upslope	(position wi	1.
Samples (below): Mark lo		Module	Corner	Soil Depth (cm)	(sum = 100)	%) per	cent	(	(each ≤100%)	percent	- for downslope	landscape	
of soil samples with a	^	2	1		Histosol			Coarse	Woody Debris >5cm		at aspect		
triangle and horizon, e.g.:	B	2	2		Mineral So	i1 /		Fine W	oody Debris <5cm		+45 degrees		
Other soil data: enter belo		2	3		Sediment	,		Litter			+90 degrees		
14. 11.		2	4		Gravel /			Duff (I	7.117		+135 degrees		
3 1m 4 3	4	3	1		Cobble			,			+180 degrees		
	F	3	2					Bryo /	Lichen		+225 degrees		
#9 #8	§	3	3		Boulder			Water			+270 degrees		
<del></del>	φ. Ι	8	1		Bedrock			Other (r	пате):		+315 degrees		
2 1 2	1	8	2						TX:	AFED			
$\frac{1}{2}$ $\frac{2}{1}$	$\frac{2}{\sqrt{2}}$	8	3			***				ATER	G 1.	•4 &	
		8	4					logic i	Regime*		Salin	ity*	Soil Drainage*
#2 #3	} [	9	1		☐ Upland (:			iturated	☐ Intermittently floor ☐ Semipermanently		□ Saltwater □	Fresh	= Evaccivaly drained
<b>→</b>	$\Theta$	9	2		(seldom		many sc	iturated	□ Permanently flood		□ Brackish □	Upland (n/a)	<ul><li>□ Excessively drained</li><li>□ Somewhat excessively</li></ul>
4 3 4	[ 3	9	3						☐ Tidally flooded - d		Aquatic V	egetation	□ Well drained
SOIL SAMPLES	ŀ	Organic la	ver denth:	cm	rated (dr  □ Occasiona				☐ Tidally flooded - n		Mean water d	epth: cm	□ Moderately well dr.
		Organic ia	iyer deptii	CIII	□ Temporari			1)	☐ Tidally flooded - in (wind, storms)	regulai	Closest distan		□ Somewhat poorly dr.
	orizon		Homog	eneity					□ Unknown				□ Poorly drained
1-10, S (plot deep sample) (A	A,B,C)	□ Homoge							DISTU	RBANC	ES		□ Very poorly drained
				d across plot		Severity	Yrs	% of				Current La	and Use.
			cuous inclus		Type	(none,	ago		Desc	ription		current La	mu OSC.
		☐ Irregula	r / pattern m	nosaic	human	L,M,H)							
		Cton	d Cino	Landform	Indinan								
		□ >1,000	d Size		natural								
		$\square > 1,000 \times 100 $	-	Type*:	fire								1 77
		□ 10-100 ×			ille						1	Former La	nd Use:
Soil Series / Type:		□ 3-10 × p	_		clear-cut								
Soil Series Source:		□ 1-3 × pl			animal								
		□ < plot si	ize										
Soil Texture*:	F	Tono	graphic I	Position*	other								
Rock Type*:		☐ Interfluve	e (crest, sumn	nit, ridge) Sea	ason of Plo	t Ph	ysiog	nomy:	* Additional N	Notes:			
Confinial Danasitate		☐ High slop		upper, convex)	Sampling	□I	Fores	t	(Representativene	ss of the pl	ot to the stand, S	Successional Sta	atus, Stand Maturity, etc.)
Surficial Deposits*:		□ Midslope		□Ту	pical growing	g 🗀 II	Wood						
Soil Description:		□ Backslop			eason		Shrub						
1		☐ Step in sl	ope e (lower, foot		ernal	□IV		f Shrubla	and				
		□ Toeslope	,	/	estival utumnal			aceous					
		□ Low leve	el (terrace)		inter			ascular					
		□ Channel		□Та	emporarily		Spare						
			bed (valley bo or (depression	ottom)	looded		Vege	tated					
		□ Other:	(aspisooloi	□ Te	emporarily dry	<sup>/</sup>  □ VII	I Barre	n					□ more
	I	_ Uniter.		1			-		ı				

### Planted Woody Stem Data: CVS Level 1

	1 lan	tea wood	ay Stem	Data.	CVBL			
<u>Leader</u> :	Project:	<u>Team</u> :	<u>Pl</u>	<u>ot</u> :	<u>Date</u> :	//		Page of
C	C	<u>Coordi</u>		ddh	<b>Height</b>	DBH	<b>X</b> 72	Damasa
Species Name	<u>Source</u>	X(0.1 m)	Y (0.1 m)	(1 mm)	(1* cm)	(1 cm)	<u>Vigor</u>	Damage
								ı
Source: <u>Tr</u> ansplant, <u>Tu</u> bling, Bare <u>R</u> oot, ]	<b>L</b> ive stake, <b>B</b> all a <b>M</b> echanically pla	and burlap, <u>P</u> ot, inted, <u>U</u> nknown		<u>1</u> =ur	Vigor: <u>4</u> = nlikely to survi	excellent, <u>3</u> =go ve year, <u>0</u> =Dead	od, <u>2</u> =fair, l, <u>M</u> issing.	<b>\</b>

Damage: Removal, Cut, Mowing, Beaver, Deer, Rodents, Insects, Game, Livestock, Other/Unknown Animal, Human Trampled, Site Too Wet, Site Too Dry, Flood, Drought, Storm, Hurricane, Diseased, Vine Strangulation, Unknown, specify other.

\*Height precision drops to 10cm if >2.5m and 50cm if >4m. EntryTool2.2.6 ©2008 Carolina Vegetation Survey. cvs.bio.unc.edu Form PWS12, ver 8.3

# **Woody Stem Data: CVS Level 2**

### Planted Woody Stems - individual stems measured

<u>Leader</u> :	<u> Pro</u>	ject:	Tean			<u>ot</u> :		<u>Date</u> :	/_	/		
Charles Name		Course	Coord	linates		dd	h	<b>Height</b>	DBH	Vic		Damaga
Species Name	ļ	<u>Source</u>	X (0.1 m)	Y (0.	1 m)	(1 m	m)	(1* cm)	(1 cm)	<u>Vig</u>	<u>gor</u>	Damage
Course Township	T:	4.1 . <b>D</b> .11	111 <b>D</b> .	,				Vicer 4	11 4 . 2		C. i.	I
Source: <u>Tr</u> ansplant, <u>Tu</u> bling, Bare <u>R</u> oot,							<u>1</u> =unl	=#Vigor: 4	excellent, <u>3</u> = ve year, <u>0</u> =D			<b>\</b>
*Height precision drops to 10cm >2.5m and 50cm if >4m.	g, Bare <b>R</b> oot, <b>M</b> echar drops to 10cm if											nimal, Human Trampled, Unknown, specify other.
							Ex	planation of cu	ıt-off			
Natural Wood Height Cut-Off (All stems short						e right )		subsampling**		m □ 13	37cm	
(All stells short	ter than		INGS — H					APLINGS —			ree [	cs — DBH
Species Name	✓ c	Sub-	0 cm- 5	0 cm-	100	cm- cm	Sub- Sapl		1-2.5	2.5-	5-	≥10 (write DBH)
	C			0 0 0 0 111	10,	<b>V</b> 111						(,
****		/1000/									<del></del>	

Page \_\_ of \_\_\_

**Natural Woody Stem Data: CVS Levels 2 & 3** 

Page \_\_ of \_\_\_

Leader: Proje Height Cut-Off (All stems shorter the	ect: an this a	re ignor	<u>Team:</u> if >10cm, e	Plot:xplain why to t	Date he right.): □	:/ 10cm	// □ 50cm □	<u>Ares</u> (=100n 100cm □ 13	m²): 37cm →	Explanati & subsan	ion of cut pling*:	<u>-off</u>					□ more.
		SEE	DLINGS —	- HEIGHT	CLASSES	S	APLINGS –				T	REES	— <b>D</b> ]	вн			
Species Name	✓ c	Sub- Seed	10 cm-	50 cm- 100 cm	100 cm-			1-2.5 cm	2.5-	5-	10-	15-			30-	35-	≥40 (write dbh)
_																	
						_											
						_											
								<b>₹</b> 9 <b>₹</b> 10									







Natural Woody Stem Data: CVS Levels 4 & 5

Explanation of subsampling\*:

□ more.. **Project:** Plot: Date: Plot Sapling Subsample %: Plot Tree Subsample %: Leader: Team: Ares: Page\_ of SAPLINGS — DBH TREES — DBH  $\overline{\mathbf{V}}$ Sub Sub 1-2.5 cm 20-25-30-35-0-1 cm 2.5-5-10-15- $\geq$ 40 (write DBH) c Mod Sapl **Species Name** Tree









## Cover Data: CVS Levels 3 & 4

Le	adeı	r <b>:</b>			Project:	Team:	Plot:	_ <u>I</u>	Date:	1	/		Ares:	Pa	ge o	<u>f</u>
	S	tra	ta					Colum				mbers (le		n cover c	odes bel	ow:
T	S	Н	(F)	(A)	Spec	cies <u>Name</u>										
								l								
							2	2								
							,	3								
							4	1								
							:	5								
							(	5								
							,	7								
							:	3								
							9	)								
							1	0								
							1	1								
							1	2								
							1	3								
							1	4								
							1	5								
							1	6								
							1	7								
							1	8								
							1	9								
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							3	0								
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							3	3								
							3	4								
							3	5								
							3	6								

00%=\* EntryTool2.2.7 Form COV34, v9.1 ©2008 Carolina Vegetation Survey. cvs.bio.unc.edu **Cover**: trace=1; 0-1%=2; 1-2%=3; 2-5%=4; 5-10%=5; 10-25%=6; 25-50%=7; 50-75%=8; 75-95%=9; 95-100%=\*

### **Cover Data: CVS Level 5**

Strata   Column headers are couplets of module and corner numbers, under whip presence values and cover codes are entered (see lists at bottom of page	Le	ade	<u>r:</u>			Project:	Team:	Plot:		,	/	_/_		<u>D</u>	ept	<b>h</b> (1	-5):		<u>A</u>	res:		<u>]</u>	Page	e	<u>of</u>	
T         S         H         (F)(A)         Species Name         c         I		S	tra	ta					C	olum	n hea	ader	s are	coup	olets	of i	nodi	ale a	and o	corne (see	er nu lists	mbe	ers, u	nder	r whi	ich
1	Т	S	Н	(F)	(A)	9	Species Nan	ne		I CSCI	lee v	aruc	S and	1 000	CI C	oucs	arc	CIIC	lica	(300	1150	are	Otto	11 01	pag	<u> </u>
3				,		-			1																	
3									2	1																
4       4																								Н		
5       6         7       7         8       9         10       11         12       12         13       14         15       15         16       17         18       18																								H	Н	
6										1																
7																								H	H	
8       9         10       11         11       12         13       14         15       16         17       18																										
9																								H	H	
10																										
11       12         13       13         14       15         16       17         18       18																								H	Н	
12       13         13       14         15       16         17       18																								H	H	
13       13         14       15         15       16         17       18																								H	Н	
14       15         15       16         17       18																								Н	Н	
15 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18																								H	Н	
16       17       18																								H	Н	
17 18																								H	Н	
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1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1									19															Н		
20																								Н	Н	
21																										
22																								Н	Н	
23									23															Н	Н	
24																								Н	Н	
25																										
26																								Н		$\vdash$
27																								Н		$\vdash$
																								Н		$\vdash$
29																										
30																								Н		$\vdash$
31														$\forall$							lacksquare			H	H	H
32														$\forall$							lacksquare			H	H	H
33																								Н	П	
34														$  \cdot  $										H		
35														$  \cdot  $										H		
36																								Н		$\vdash$

**Cover**: trace=1; 0-1%=2; 1-2%=3; 2-5%=4; 5-10%=5; 10-25%=6; 25-50%=7; 50-75%=8; 75-95%=9; 95-100%=\* EntryTool2.2.7 Form COV5, v9.1 **Presence**: overhanging=0; 10 x 10m=1; 3.16 x 3.16m=2; 1 x 1m=3; 32 x 32cm=4; 10 x 10cm=5 ©2008 Carolina Vegetation Survey. cvs.bio.unc.edu