CSE Plot Description

							. • •			_							
Observe	r:									A	dminist	trative U	Init:				
Recorde	r:									Pr	oject L	Jnit:					
Latitude	(dd dd	ldddd).	,							М	acropl	ot:					
										Da	ate (DD)/MM/Y	YYY):				
Longitud	le (ddd	l.ddddd	1):							Ti	me:						
Elevatio	n (ft):										Γ			Desc	ribe W	/itnes	ss Tree(s):
Macroplot	Sizes				Hill Slope	(where steepe	st):				_%		', '	\			
Size (Acres)		1/10	00 1	/10	Aspect (ci	rcle one)	:	N	E	S	w		\mathcal{I}	7			
Radius (Feet, D	Decimal Fee	et) 11.7	78 3	7.24	Aspect az	imuth:					o			/			
Radius (Feet, I	nches)	11'	9" 3	7' 3"	Mag Decl	ination:					_ °						ee on plot**
Dhata A	_•	(a) 5 1			2 (4) (75 (color of Fla	gging Us	sea:		
Photo A	ZI-	• •			C. (1) from 75 fe C in all four card	_				A	ERIAL	COVER ((%) (EN	TIRE 1	L/10tl	h acı	re plot)
muths:		tions; (1) toward P		ach Bro	own's transect l	ooking		List k	-		Estimate Aerial Cover % for Species by				Lifefo	orm	
ORDER 1	TAKEN:							peci	es		Tree	Shrub	Forb	/herb	Grama	noid	Cactus
Commer	nts/Des	crintion	of P	lot:													
Commer	163, DC3	Ciption	0														
								TOTA	LS								
Tree Ca	пору С	over (%	6)		GRO	UND C	OVE	R (%	6) (E	NTI	RE 1/1	.0th acre	plot) (must	total	100	%)
(de	nsiome	ter)		Pla	ant basal	Bole	Lit	ter	Ва	are	soil F	Rock (>2.5	in) Gra	vel (<	2.5 in)	Tot	:al (%)
					, SMALL PLO				LING	S OR	SAPLING					61	
	Condition				Acre only) - Tree Regen, Shrubs		rubs & Ca	acti			Condition			•			rubs & Cacti
Species (Live, Dead, Sick)							I		Spe	cies	(Live, Dead, Sick)		Diameter c	lasses—S	aplings (inches)
	,	> 0 - 0.5'	> 0.5	—1.5'	> 1.5' - 2.5'	>2.5' - 3.5'	>3.5′ -	4.5′			Sicky	> 0 - 1"	>1-2"	>2-3′	" >	3-4"	>4-5"
									1	-							

New Mexico Forest and Watershed Restoration Institute

Plot Description Version: 4/3/2018, km



Precisions:

e: ±5 percent

egetation cover : ±1 class estimation or ±10%

CSE Surface Fuels

Observer	
Recorder	

Macroplot:	
Date (DD/MM/YYYY):	
Time:	

CSE Brown's Transects are 50 feet long, starting at PC.

Class	Count From	Total Length
1-hr, 10 –hr	44' to 50'	6
100-hr	38' to 50'	12
1000-hr	0' to 50'	50

	Diameter (in)	
FWD	1-hr 10-hr 100-hr	0 to 0.25 0.25 to 1.0 1.0 to 3.0
CWD	1000-hr and greater	3.0 and greater

Decay Class Description

- 1 All bark is intact. All but the smallest twigs are present. Old needles probably still present. Hard when kicked
- 2 Some bark is missing, as are many of the smaller branches. No old needles still on branches. Hard when kicked
- 13 Most of the bark is missing and most of the branches less than 1 in. in diameter also missing. Still hard when kicked
- 4. Looks like a class 3 log but the sapwood is rotten. Sounds hollow when kicked and you can probably remove wood from the outside with your boot.

 Pronounced sagging if suspended for even moderate distances
- 5 Entire log is in contact with the ground. Easy to kick apart but most of the piece is above the general level of the adjacent ground. If the central axis of the piece lies in or below the duff layer then it should not be included in the CWD sampling as these pieces act more like duff than wood when burned.

ebris fuels)	Transect	Azimuth	Slope	1 - Hr Count	10 - Hr Count	100 - Hr Count	Comment
oody Debi 100 hr fue	1	0°					
Fine W (1, 10,	2	180°					

	Transect	Log No.	Log Diameter	Decay Class	Length (feet)	Comment
Debris els)						
dy Deb fuels)						
Woody						
rse Wood (1000 hr						
Coarse (10						
ŏ						

	Transect 1	15 '	30'	38 '	44'	45'
#	Litter Depth (in)			N/a	N/a	
& Duff	Duff Depth (in)	N/a	N/a			N/a
Litter	Transect 2	15 '	30′	38 '	44'	45'
	Litter Depth (in)			N/a	N/a	
	Duff Depth (in)	N/a	N/a			N/a

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<u>Precisions:</u> Diameter: ±0.5 in; decay class ±1 class; Slope ±5 percent

Surface Fuels Version: 4/3/2018, km

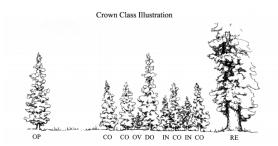
CSE Tree Data

Plot Number:	Date:	Observer/Recorder:	Page	_of
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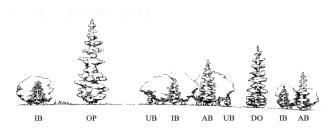
Tree #	Cond	Species	DBH	DRC	Number Stems	Total Tree Ht	LiCrBHt	Crown Ratio	Crown Class	Damage/Disease	Decay Class	Comment
									1			

CSE Tree Sheet Column	Description	Examples	Warnings
Tree #	Order of trees in plot, starting clockwise from N line, moving around plot like spokes of a wheel	1, 2, 3	Stay in order!
Condition	Condition of tree	L, D, S	If sick, identify why; If dead, record decay class of snag
Species	Species of tree, recorded using USDA PLANTS code	PIED, PIPO, JUSC, POTR	
DBH (in)	Diameter at breast height (4.5 feet); used for single- stem species	10.1, 4.2	CSE Plots only record trees over 4.5 ft, with DBH ≥5 inches, if tree would be measured at DBH
DRC (in)	Diameter at root crown (close to ground); use only on PIED, JUXX, or QUXX with <2 stems	7.4, 5.5	CSE Plots only record trees over 4.5 ft, with DRC ≥5 inches, if tree would be measured at DRC
Number of stems	Order of the stems measured	1, 2, 3, 4	
Total Tree Ht (ft)	Height of tree from ground to top of tree (whether top is live or dead); use rangefinder or clinometer	70, 15, 5	
LiCrBHt, Live Crown Base Ht (ft)	Height from ground to base of live crown (not necessarily on bole of tree)	6, 21, 50	Live trees only
Crown Ratio	Length of live crown divided by the total tree height	50%, 65%	Live trees only
Crown Class	Two-letter code that describes the relative position of the tree crown with respect to the competing vegetation	CO, DO, OP	See Reference Sheet for Classes
Damage/Disease	Recorded using categories in reference sheet in the following format: Category/Agent/Tree Part/Severity	10/000/BO/1	See Reference Sheet for Categories
Decay Class	A number between 1 and 5, similar to the decay classes used for CWD	Class 2, Class 3	Snags only; See Reference Sheet for Decay Classes
Comment	Otherwise observation about the tree, including whether or not it is a witness tree	Nest in tree	Note if this is your witness tree





Brush Cover Crown Class Illustration



Code	Name	Description
ОР	Open-grown or Isolated	Tree crowns receive full light from above and from all sides. In even-aged stands, these trees have their crowns well above the general canopy.
DO	Dominant	Tree crowns receive full light from above and partly from the sides. Crowns extend above the general level of the crown cover of others of the same stratum and are not physically restricted from above, although possibly somewhat crowded by other trees on the sides. In even-aged stands, dominant trees rise somewhat above the general canopy.
со	Codominant	Tree crowns receive full light from above, but comparatively little from the sides. Crowns form a general level of crown stratum, are not physically restricted from above and are crowded by other trees from the sides. In even-aged stands, codominants form the general canopy level.
IN	Intermediate	Tree crowns occupy a definitely subordinate position and are subject to strong lateral competition from crowns of dominants and codominants. They receive little direct light from above through small holes in the canopy, but no light from the sides.
ov	Overtopped	Tree crowns receive no direct light from above or from the sides and are entirely below the general level of dominant and codominant trees.
RE	Remnant	Trees that remain from a previous management activity or catastrophic event. The tree is significantly older than the surrounding vegetation. Remnant trees do not form a canopy layer and are usually isolated individuals or small clumps. This definition is from the Region 6 Inventory and Monitoring System field procedures for the Current Vegetation Survey.
AB	Leader Above Brush	The terminal leader of the tree is above the surrounding brush while the middle or lower crown may be within the brush canopy.
IB	Leader Within Brush	The terminal leader and upper crown of the tree is within the brush canopy.

Code	Name	Description			
UB	Leader Overtopped by Brush	The crown of the tree is completely overtopped by the surrounding brush. Brush cover crown classes only apply to isolated or dominant trees with brush competition; therefore, brush cover crown class codes are used as modifiers for opengrown or dominant trees. Competition from adjacent trees is more important than competition from shrubs if they both occur. Generally, brush cover crown codes are used in stands where overstory tree competition is absent.			

Crown Ratio →

Snag Decay

		Heartwood	Sapwood				Time Since
Code	Bark	Decay	Decay	Limbs	Top Breakage	Bole Form	Death
1*	Tight, intact	Minor	None to	Mostly	May be	Intact	≤5 years
			incipient	Present	present		
2	50% loose or	None to	None to	Small limbs	May be	Intact	>5 years
	missing	advanced	incipient	missing	present		
3	75%	Incipient to	None to 25%	Few remain	Approx. 1/3	Mostly intact	>5 years
	missing	advanced					
4	75% missing	Incipient to	25%+	Few remain	Approx. 1/3	Losing form,	>5 years
		advanced			to ½	soft	
5	75%+	Advanced to	50%+	Absent	Approx. ½+	Form mostly	>5 years
	missing	crumbly	advanced			lost	

^{*}Implies recent mortality, within the last 5 years.

