



PSP MANUALS MASTER TABLE OF FIGURES

March 2005

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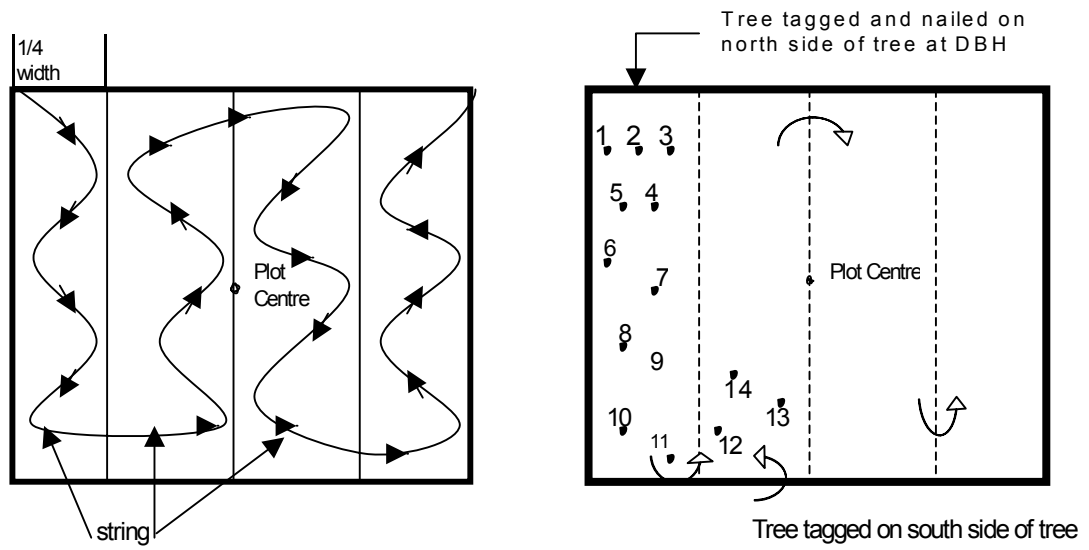


FIGURE 2.3 A SWATHS AND TAGGING ORDER



FIGURE 2.3B AN EXAMPLE OF NUMBERING ON TREE TAG

Trees forked below 1.3m are treated as two separate stems and are tagged and tallied as such.

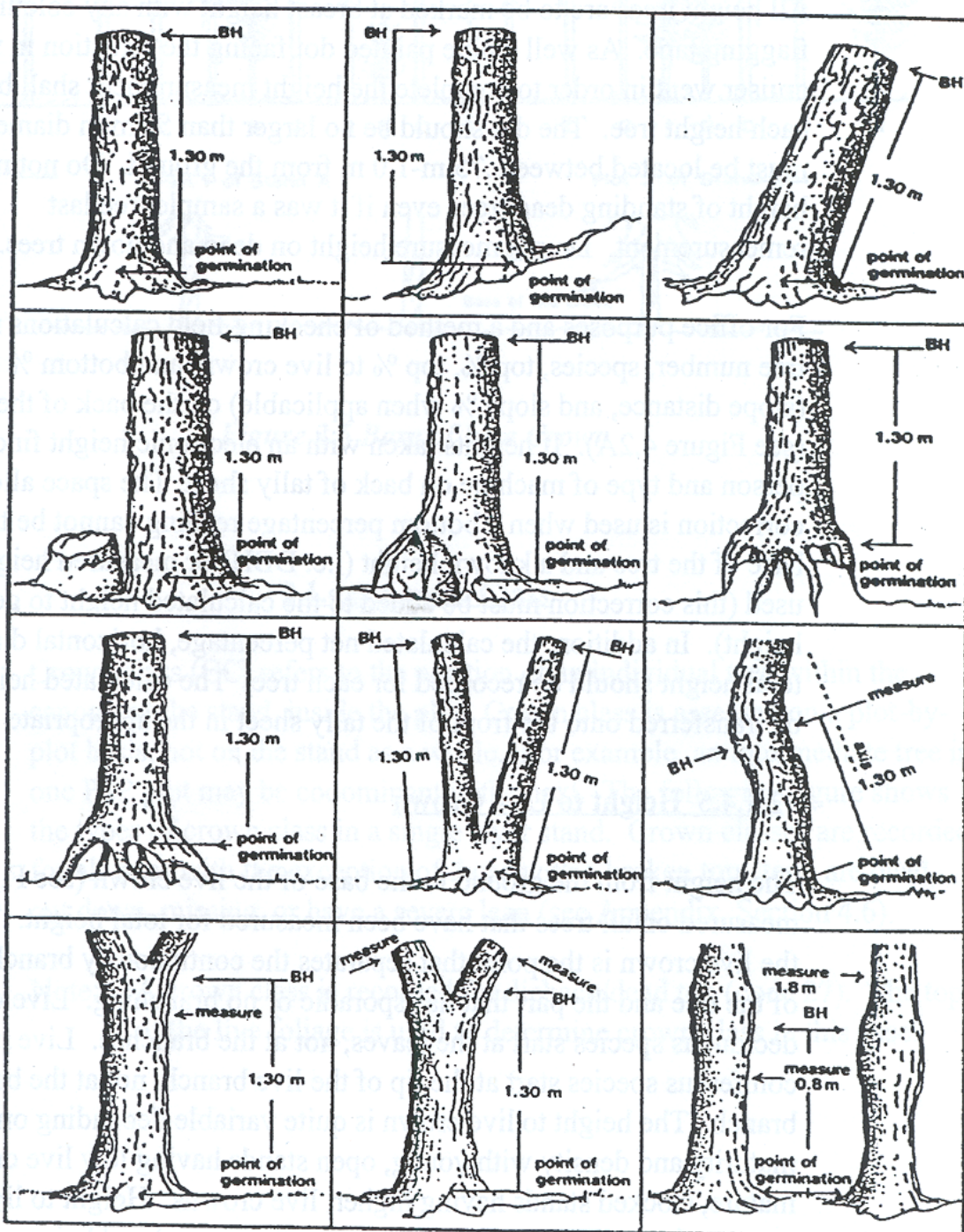


FIGURE 2.4 DETERMINING POINT OF GERMINATION AND BREAST HEIGHT

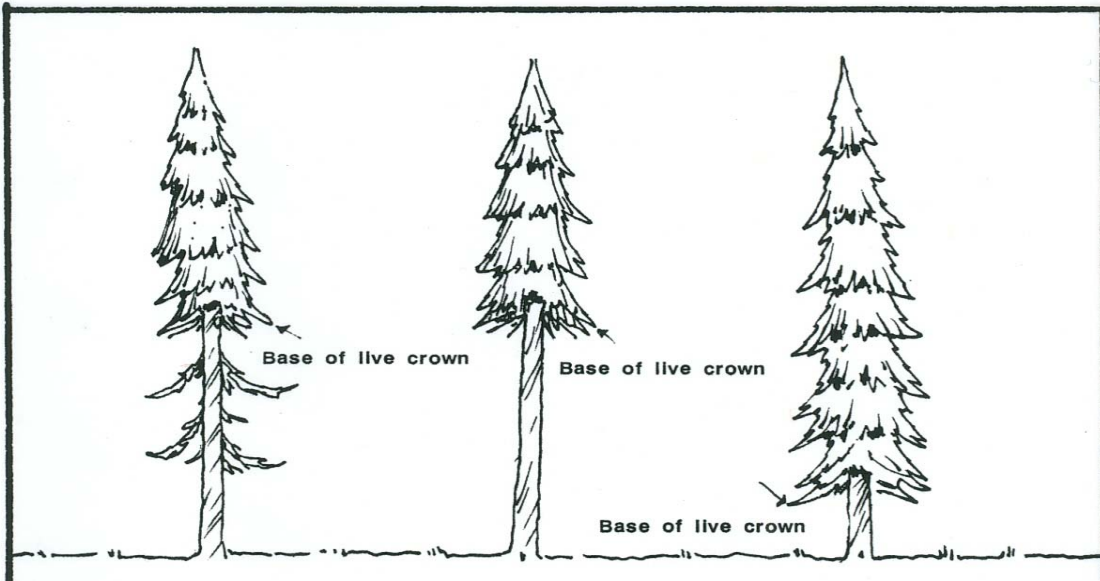


FIGURE 2.5 BASE OF LIVE CROWN

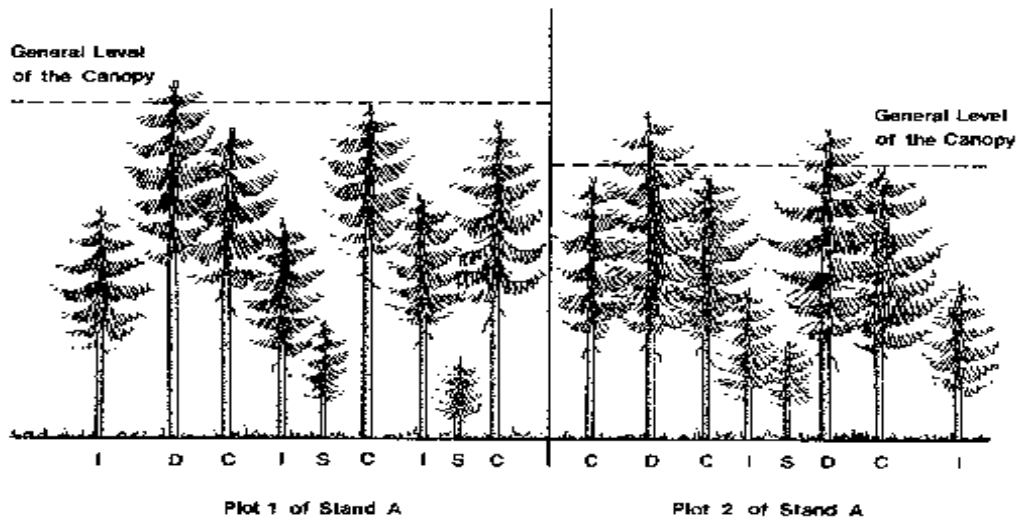


FIGURE 2.6 CROWN CLASS

Note: a crown class is recorded for dieback/dead top (code 16). The top of the live foliage is used to determine crown class in this case.

- | | |
|------------------|--|
| D – Dominant | -crowns extend above the general level of the canopy. |
| C – Codominant | -crowns form the general level of canopy. |
| I – Intermediate | - crowns below but extending into the bottom of the general level of the canopy. |
| S – Suppressed | -crowns entirely below the general level of the canopy. |
| O – Open grown | -if the trees branches does not interact with another trees branches. |

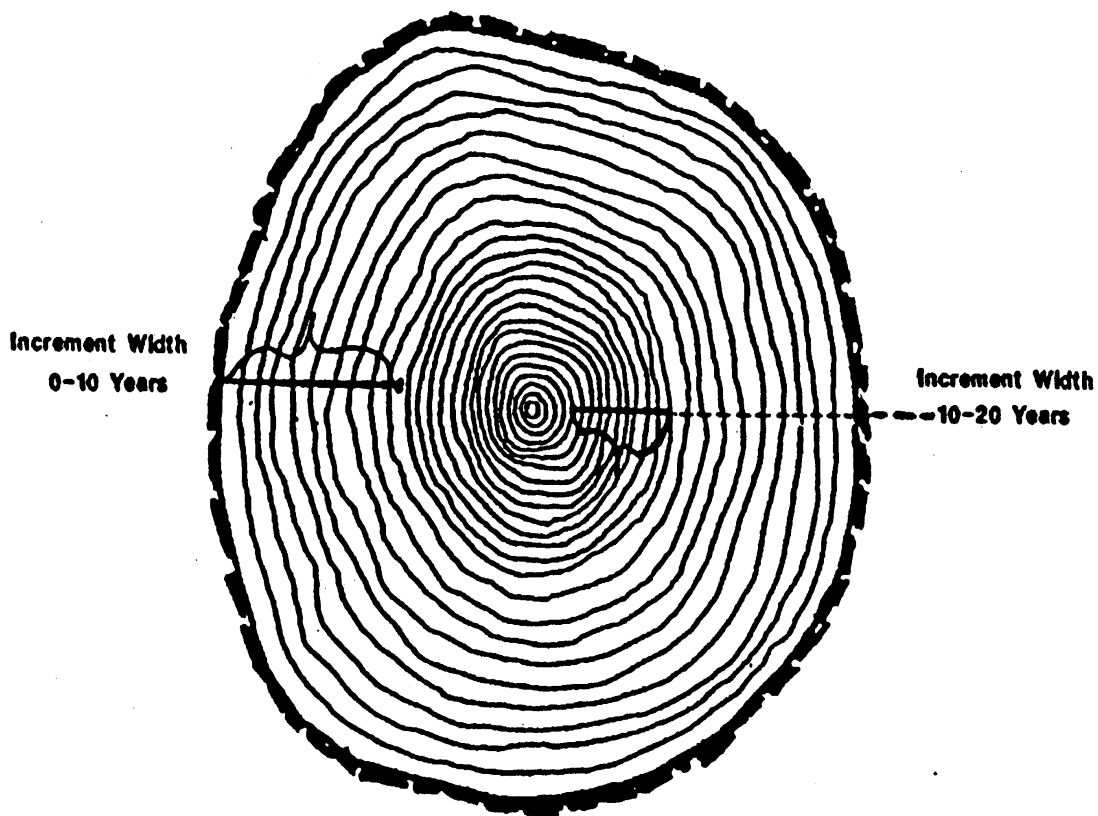


FIGURE 2.7 INCREMENT WIDTHS

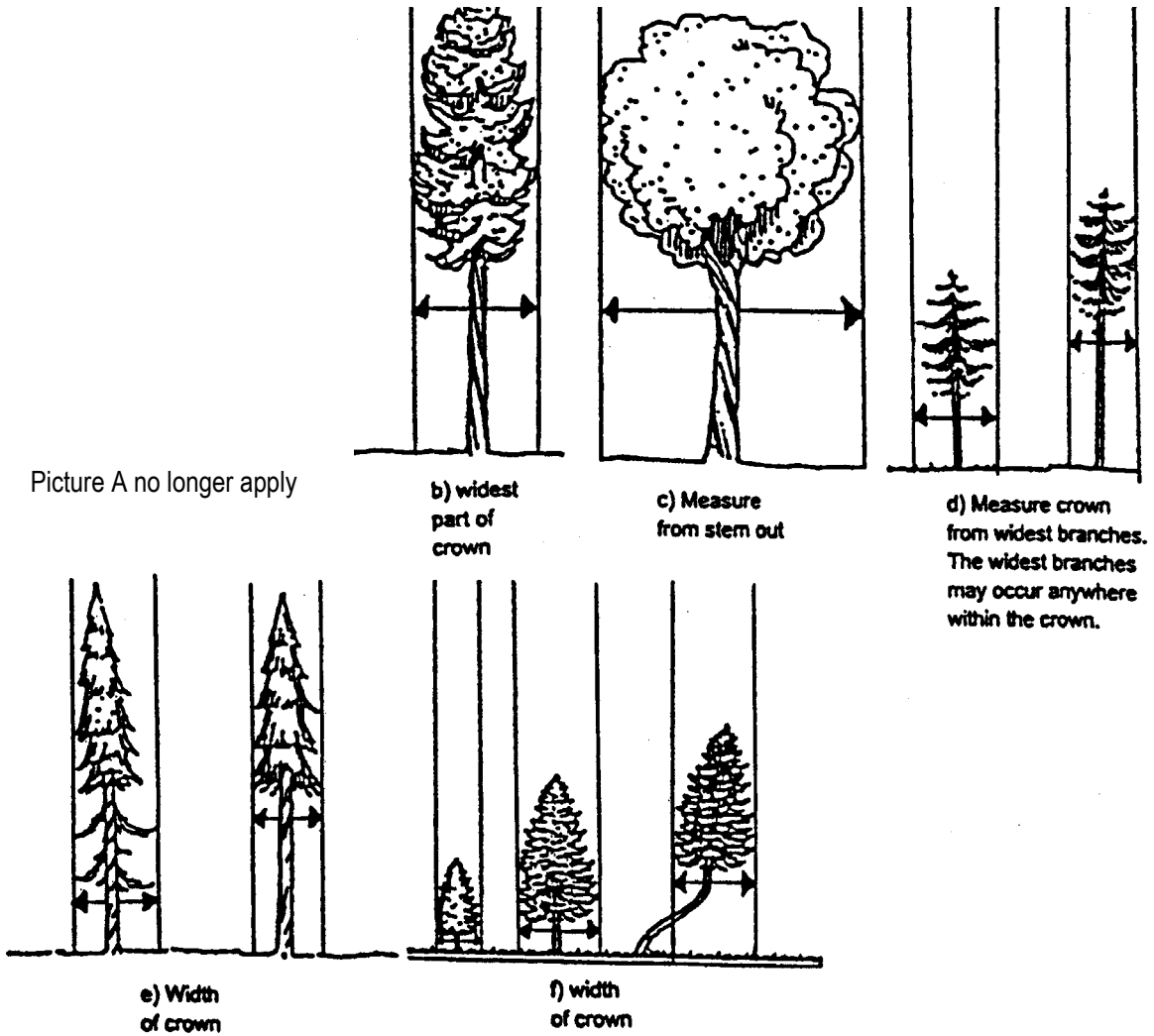


FIGURE 2.8 CROWN WIDTH MEASUREMENT

PERMANENT SAMPLE PLOT MAINTENANCE SHEET

Agency	Group Number	Year	Month	Day	M	Twp	Rge	Section	Section	Section	LS	LS	LS
01	679	90	02	12	5	08	3	11	16	09	01	08	

Field Overstory Plot 1	Field Overstory Plot 2	Field Overstory Plot 3	Field Overstory Plot 4
C,2,P,L(S,W)	C,2,P,L(S,W)	C,2,P,L(S,W)	C,2,P,L(S,W)

Access A.W.R.

Plot Damage	Butler Damage
1	3
2	6
3	6
4	6

Comments From seismic line (310°) (TPA) go 250m @ 90° to middle of road (TPB). At TPB go 12m @ 0° to tieplate. From tieplate go 100m @ 0° to group plot centre.

NOTE: T.P.A. refers to tie-point A
"X" marks the location of the sectioned trees

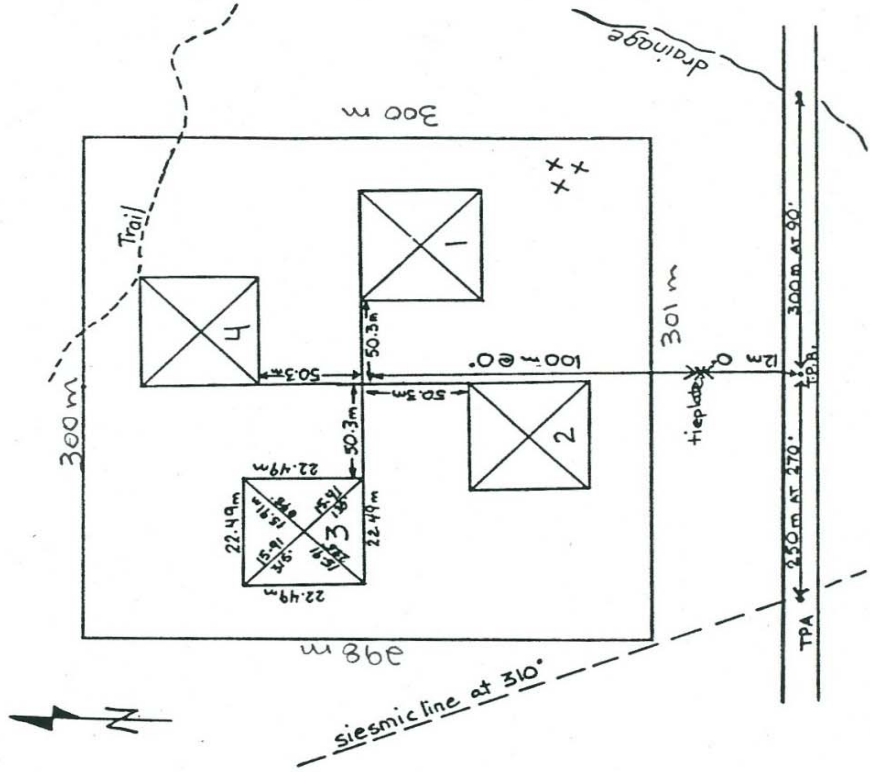
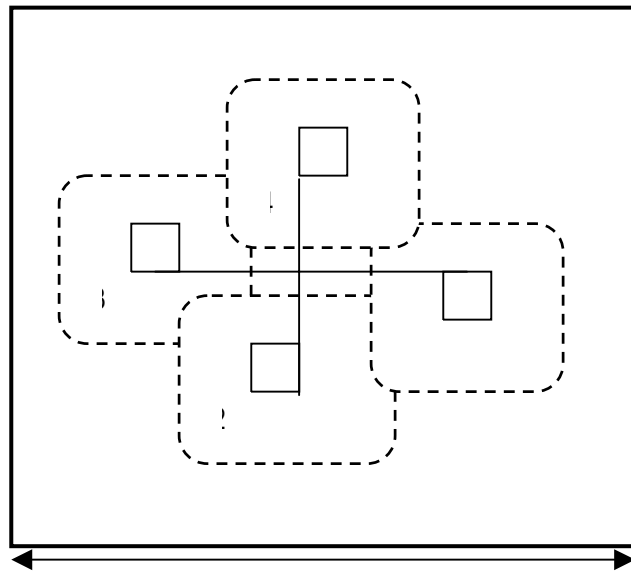
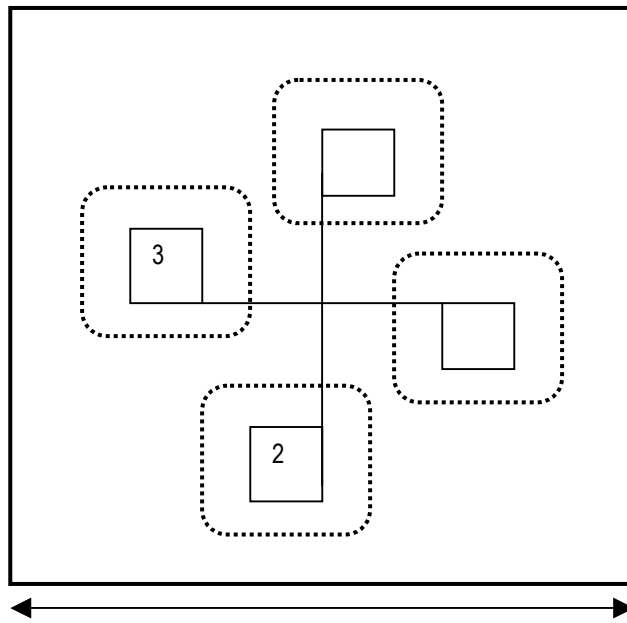


FIGURE 2.10 GROUP PLOT MAINTENANCE FORM

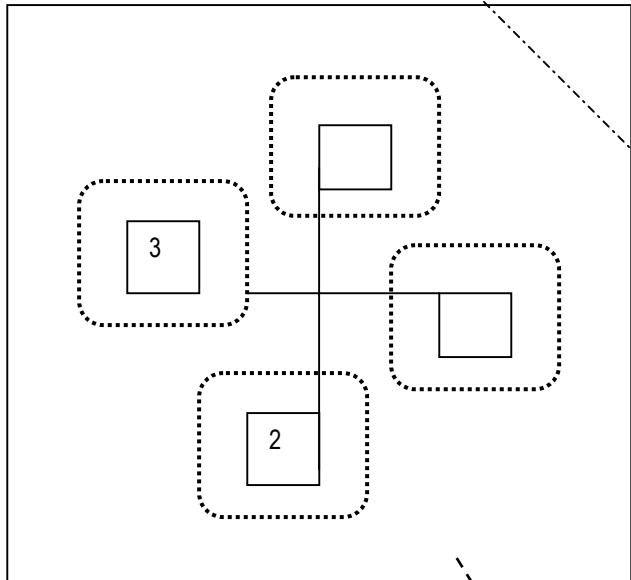


318 m

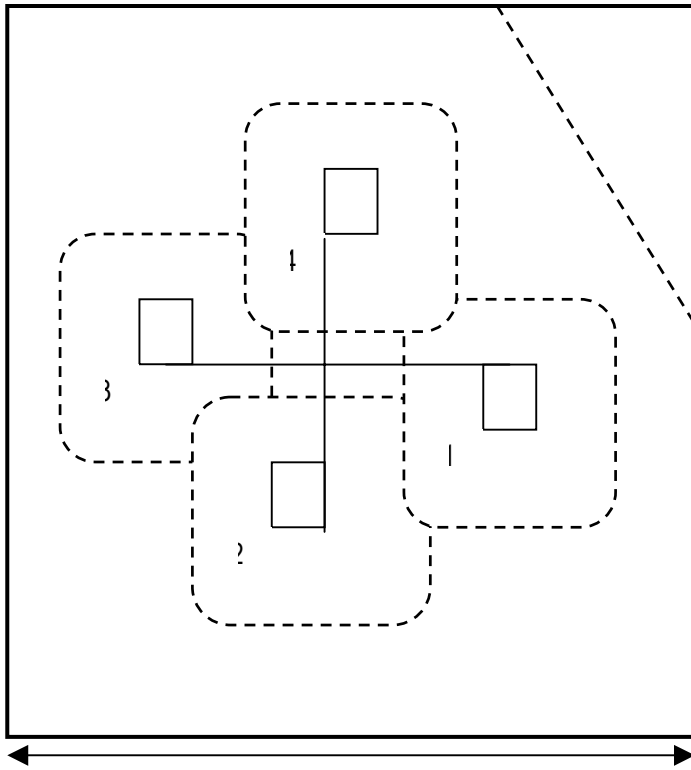


18 m

FIGURE 2.11 BUFFER DAMAGES AREA



The seismic line, in this example does not come within 20m of any of the subplots. Therefore, all subplots would have a code 6 recorded for buffer damages.



The seismic line, in this example is within 20 m of subplots 1 and 4. For these two subplots, a code 3 (manmade damage) is recorded in the buffer damage space. Code 6 is recorded for subplots 2 and 3 as damage is not within those buffer damage zones.

318 m

FIGURE 2.12 EXAMPLES OF BUFFER DAMAGE



LAND AND FOREST SERVICE

PERMANENT SAMPLE PLOT HEADER SHEET

Agency (1)	Group Number (3)	Plot No. (13)	Measure -ment No. (14)	Year (16)	Month (18)	Day (20)	L. S. (22)	Section (24)	Twp (26)	Rge. (28)	M (31)	Plot Type (32)	Imp (35)
Record Type (36)	Tree Plot Size (38)	Seeding Plot Size (43)	Region Plot Size (47)	Photo interpreted Overstory (51)		Photo interpreted Understory (61)							
0	1	1000	63	63									
Plot Topography		Elevation		Soils		Surface Vegetation		Maintenance Report		Field Overstory Type			
L* (71)	% Slope (72)	Aspect (75)	EP* (81)	D* (82)	Depth to Mineral Soil (83)	T* (85)	% Ground Cover (86)	A* (88)	PD* (90)	BD* (91)	AVI 4126 SW110		
						3095		122		Field Understory Type			

Crew: A. WINTER

Photo number: 083

Line number: AS: 1876

Tie Point: Seismic Lines 105

Checked by: _____

Page 1 of 1

AGE TREES ONLY

Record Type (36)	Tree Number (38)	Species (42)	DBH (44)	Height (48)	Height to Live Crown (52)	CC* (56)	Condition Codes (57)	DBH Age (63)	Stump Age (66)	Stump Increment Width (69)
0	2	SW	38.6	26.1	17.6	C	00	091	095	01.1
0	0	SW	35.2	25.4	16.4	C	00	087	092	01.0
0	0	SW	40.1	26.3	18.0	C	00	095	099	00.7
0	0	AW	29.3	22.1	17.3	C	62	099	106	01.0
0	0	AW	28.9	21.4	17.6	C	62	107	116	01.1
0	0	AW	29.0	21.9	18.0	C	62			00.8
0	0									
0	0									
0	0									
0	0									

* Legend

A	Access
BD	Buffer Damage
CC	Crown Class
D	Drainage
EP	Erosion Potential
L	Location
PD	Plot Damage
T	Type

Comments 1) Columns 36, 38, 43 and 47 are filled in by the office staff based on measurements taken in the field.

2) Stump age and dbh age for tree 6 could not be counted due to rot, therefore columns 63 + 66 are left blank.

Coarse Woody Material - 5%.

FIGURE 2.13 DATA ENTRY ON PSP HEADER SHEET



FORESTRY, LANDS AND WILDLIFE
Forest Service

TM 249 (Rev 4/87)

PERMANENT SAMPLE PLOT TALLY SHEET

Agency	Group Number	Plot No	Measure-ment No.	Year	Month	Day	L.S.	Section	Twp	Rge	M	Plot Type	Imp
01	020	1	03	90	06	03	04	02	03	20	3	5	000
Record Type (36)	Tree Number (38)	Species (42)	DBH	DBH	Height (48)	Height to Live Crown (52)	CC (56)	Condition Codes (57)	Arms (75)	Decline (78)	Comments		
0	1	AW	21.2				C	02					crew data
	1	AW	20.2				C	0102					check cruise
	3	SW	38.9		21.0	15.6	C	00					c. codes wrong
	3	SW	38.8		22.1	16.1	C	30					
	6	SW	13.8		14.5	10.2	C	00					ht. + c. codes wrong
	6	SW	13.8		14.5	10.0	C	00					OKAY
	13	AW	12.3		20.8	15.6	C	309114					also c. codes 36 + 23
	13	AW	12.3					309114					also c. codes 36 + 23
													okay

FIGURE 2.14 DATA ENTRY ON PSP TALLY SHEET



ENVIRONMENTAL PROTECTION

REGENERATION TALLY SHEET

Height Class 5 — 1.20 m
 Height Class 4 — .90 m
 Height Class 3 — .60 m
 Height Class 2 — .30 m
 Height Class 1 — .10 m
 No Tally

Page 3 of 3
 Crew: Zago, Marks, Quibrant

Agency	Group Number	Plot No.	Measure-ment No.	Year	Month	Day	L.S.	Section	Twp	Range	M	Plot Type	Imp
01	020	103	9005	11	04	02	032	03	5	000			
Record Type	Tree Number	Species	Height Class 1 .10m - .29m	Total (1)	Height Class 2 .30m - .59m	Total (2)	Height Class 3 .60m - .89m	Total (3)	Height Class 4 .90m - 1.19m	Total (4)	Height Class 5 1.20m +	Total (5)	
03	9998	S W	..	003	..	..	..	..	..	..	..	..	..
03	9998	S B	..	..	..	..	..	..	..	..	..	..	..
03	9998	F B	..	..	..	..	..	..	..	..	..	..	..
03	9998	P L	..	..	..	..	..	..	..	..	..	..	..
03	9998	A W	..	..	..	..	..	..	..	..	..	..	..
03	9998	B W	..	..	..	..	..	..	..	..	..	..	..
03	9998	L T	..	..	..	..	..	..	..	..	..	..	..
03	9998	F D	..	..	..	..	..	..	..	..	..	..	..
03	9998	P B	..	..	..	..	..	..	..	..	..	..	..
03	9998	..	..	..	..	..	..	..	..	..	..	..	..

FIGURE 2.15 DATA ENTRY ON REGENERATION TALLY SHEET



FORESTRY, LANDS AND WILDLIFE
Forest Service

TM 249 (Rev 4/87)

PERMANENT SAMPLE PLOT TALLY SHEET

Agency	Group Number	Plot No	Measure-ment No.	Year	Month	Day	L.S.	Section	Twp	Rge	M	Plot Type	Imp
01	020	1	03	90	06	03	04	02	03	20	3	5	000
Record Type (36)	Tree Number (38)	Species (42)	DBH	DBH	Height (48)	Height to Live Crown (52)	CC (56)	Condition Codes (57)	Azimuth (75)	Declination (76)	Comments		
0	1	AW	21.2				C	02					crew data
	1	AW	20.2				C	0102					check cruise c.codes wrong
	3	SW	38.9		21.0	15.6	C	00					ht. + c.codes wrong
	3	SW	38.8		22.1	16.1	C	30					OKAY
	6	SW	13.8		14.5	10.2	C	00					
	6	SW	13.8		14.5	10.0	C	00					
	13	AW	12.3		20.8	15.6	C	309114					also c.codes 36 + 23
	13	AW	12.3					309114					also c.codes 36 + 23 okay

FIGURE 3.1 PSP TREE TALLY CHECK SHEET

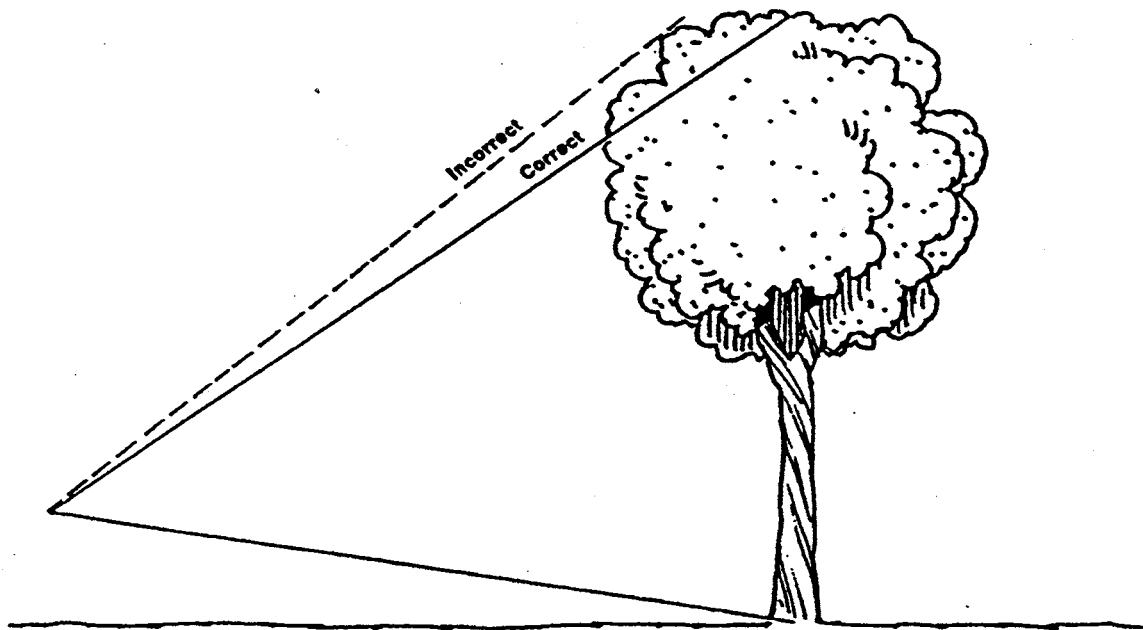
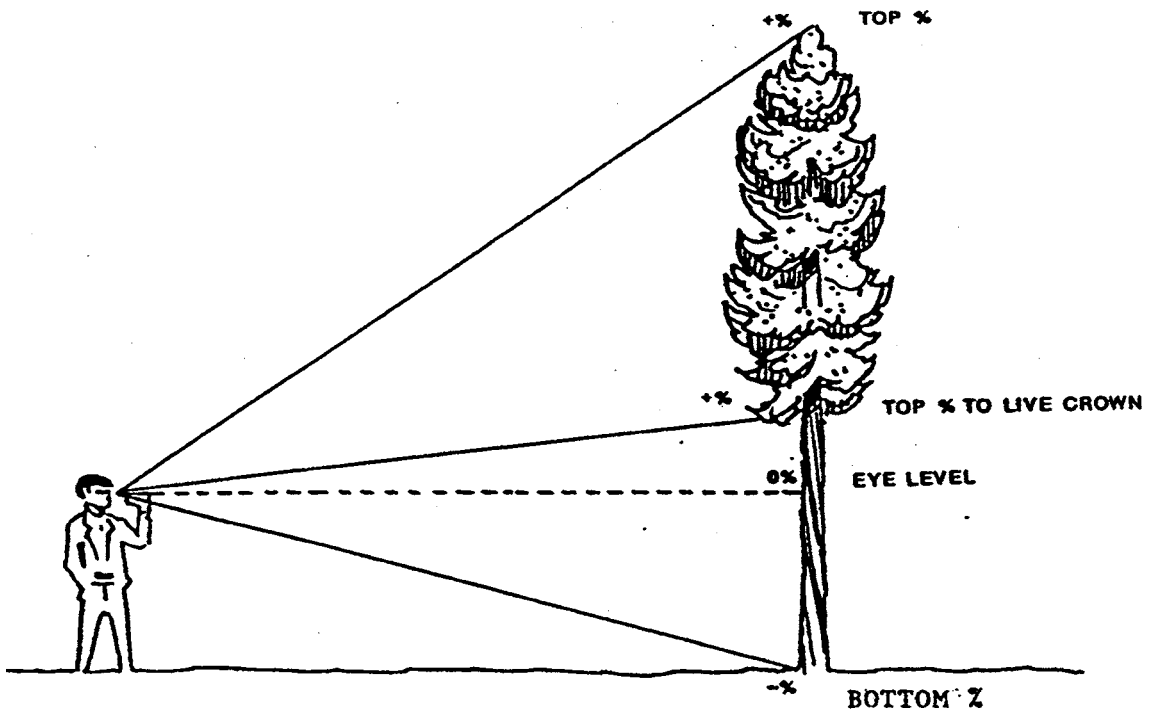
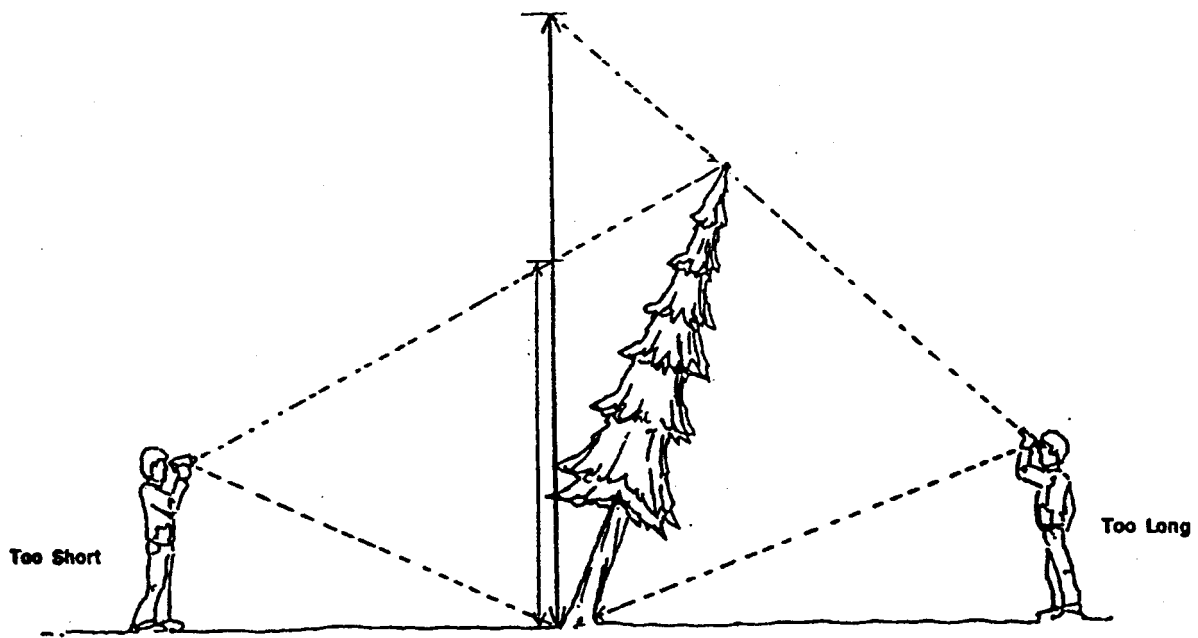
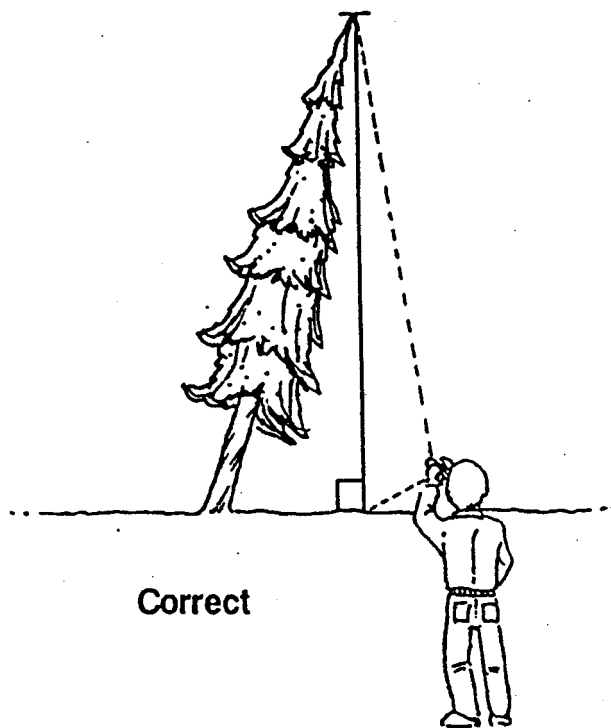


FIGURE 4.1 TREE HEIGHT MEASUREMENT



Incorrect



Correct

FIGURE 4.2 HEIGHT MEASUREMENT OF LEANING TREES



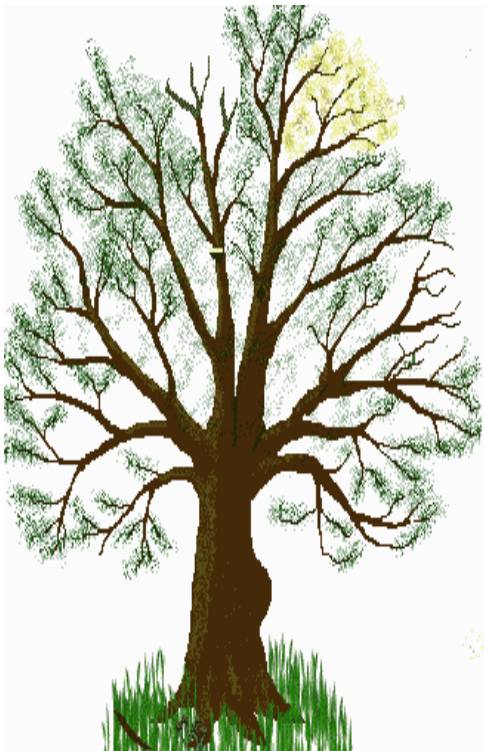
FIGURE 4.3 CONK AND BLIND CONKS



FIGURE 4.4 OPEN SCARS



FIGURE 4.5 **LARGE BURL ON MAIN STEM**



This tree would be considered a fork if fork occurred above the DBH

FIGURE 4.6 **FORKS**



FIGURE 4.7 PRONOUNCED CROOK



FIGURE 4.8 LEANING TREE



FIGURE 4.9 ATROPELLIS CANKER



FIGURE 4.10 WITCHES ON SPRUCE

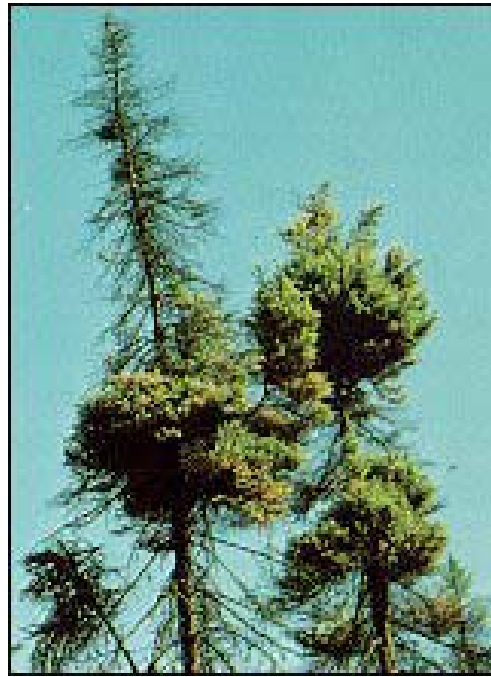


FIGURE 4.11 MISTLETOE

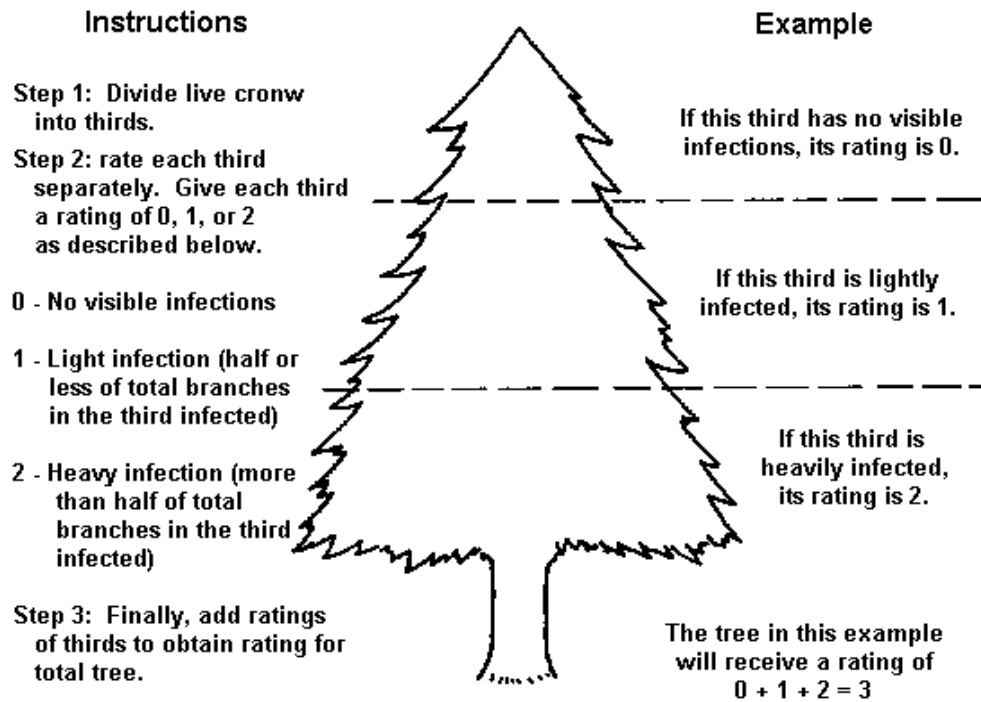


FIGURE 4.12 INSTRUCTIONS AND EXAMPLE OF THE USE OF THE 6 CLASS MISTLETOE RATING SYSTEM (HAWKSWORTH 1961, 1977)

CODES

- 91 One of the 1/3 sections has light infection (1) + other 2/3 have no visible infections.
- 92 Two of the 1/3 sections has light infection (10) + or one 1/3 section has a heavy infection only.
- 93 All three of the 1/3 sections has light infection (1) + or one 1/3 section has a heavy infection, one has a light infection + last 1/3 has no infection.
- 94 If total ratings = 4 then this code is used.
- 95 If total ratings = 5 then this code is used.
- 96 If total ratings = 6 then this code is used.



FIGURE 4.13 GENERIC WOODPECKER



FIGURE 4.14 YELLOWBELLIED SAPSUCKER FEEDING



FIGURE 4.15 SMALL MAMMAL FEEDING ON TREE BOLE



FIGURE 4.16 EXCAVATIONS BY WOODPECKERS



FIGURE 4.17 SMALL CAVITY

FIGURE 4.18 LARGE CAVITY



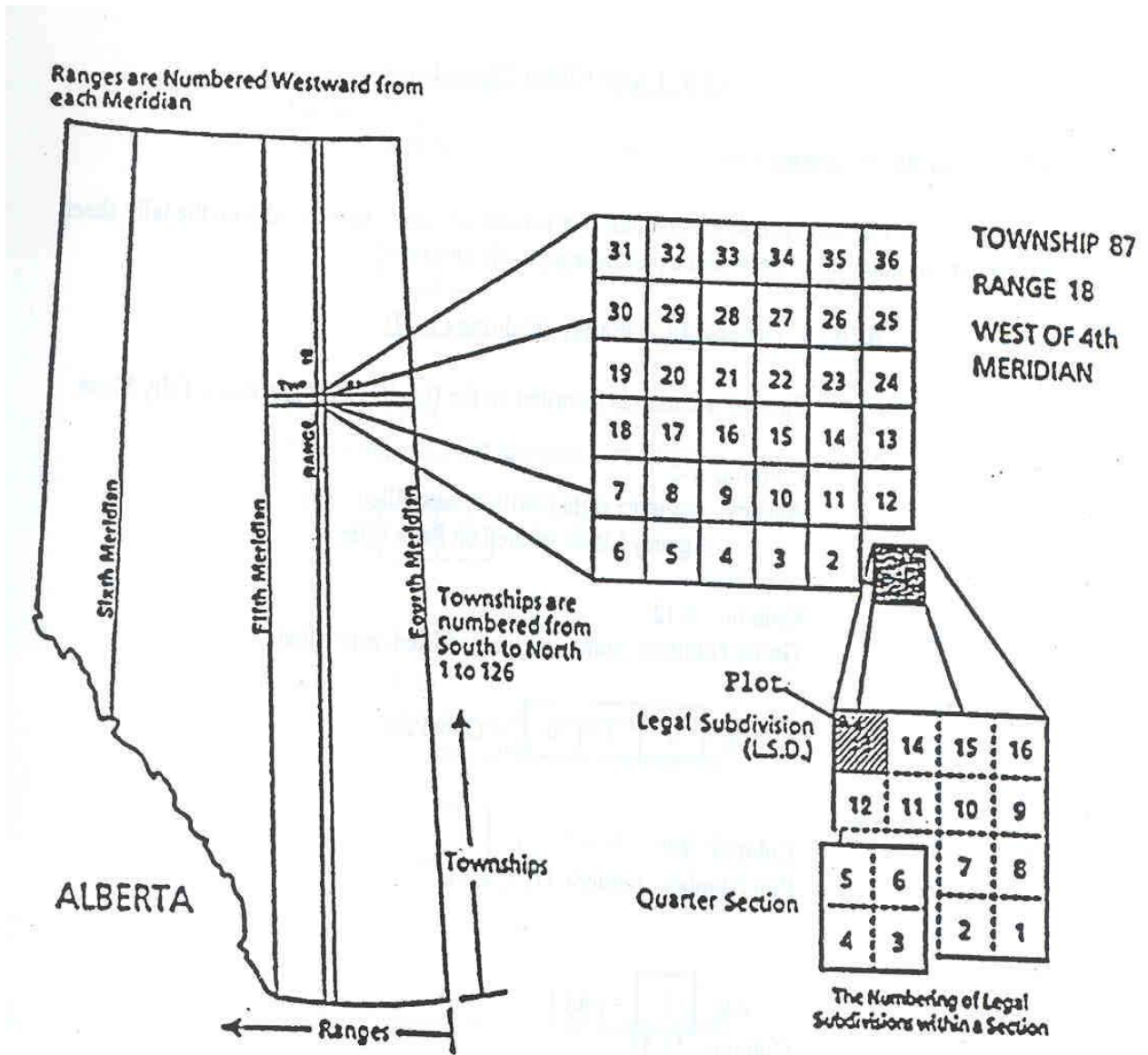


FIGURE 4.19 ALBERTA SURVEY SYSTEM²

² Alberta Bureau of Surveying and Mapping. 1986 Maps of Alberta Catalogue 1986-87. Government of Alberta ENR No. Ref 11 86 pp.iv.

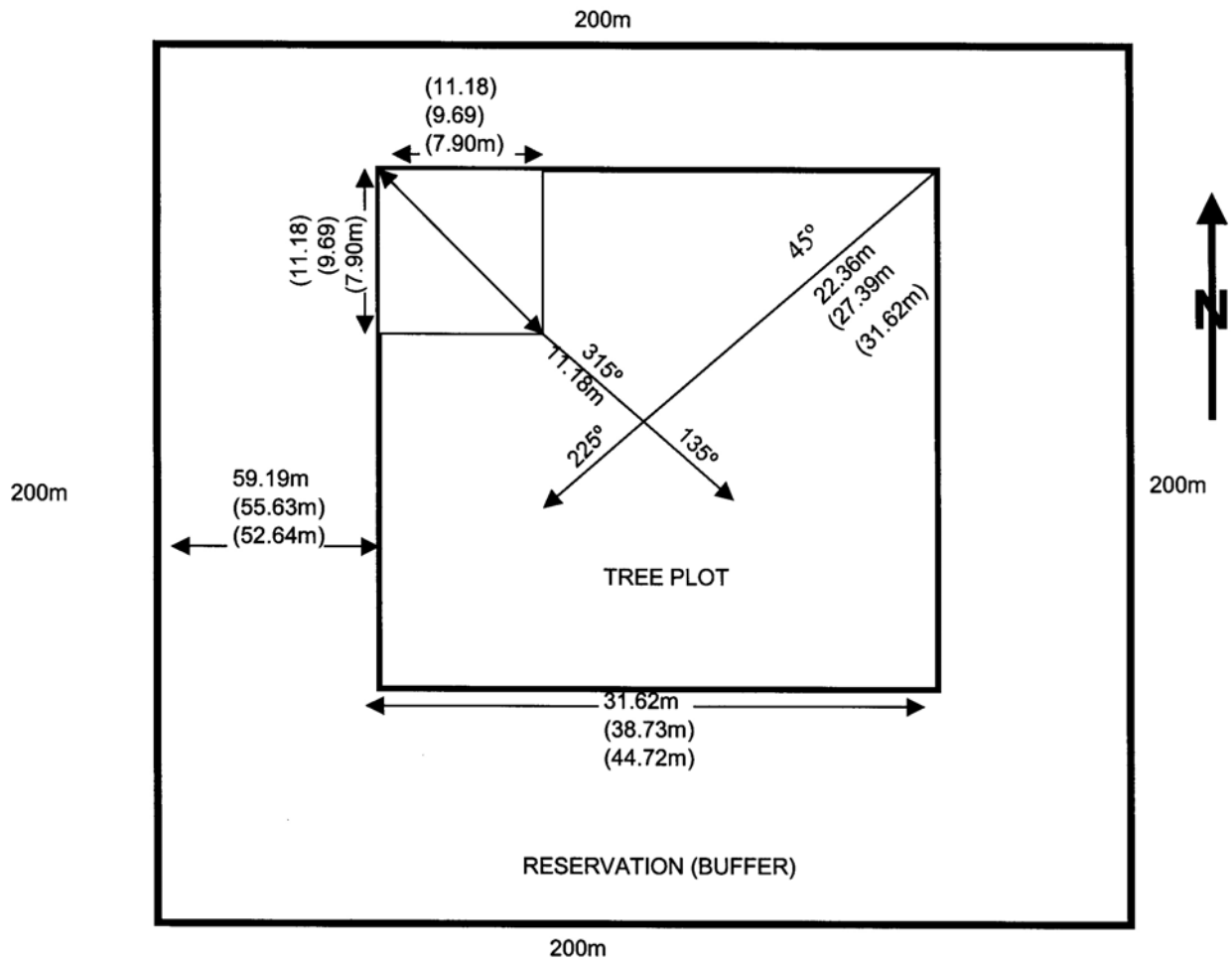
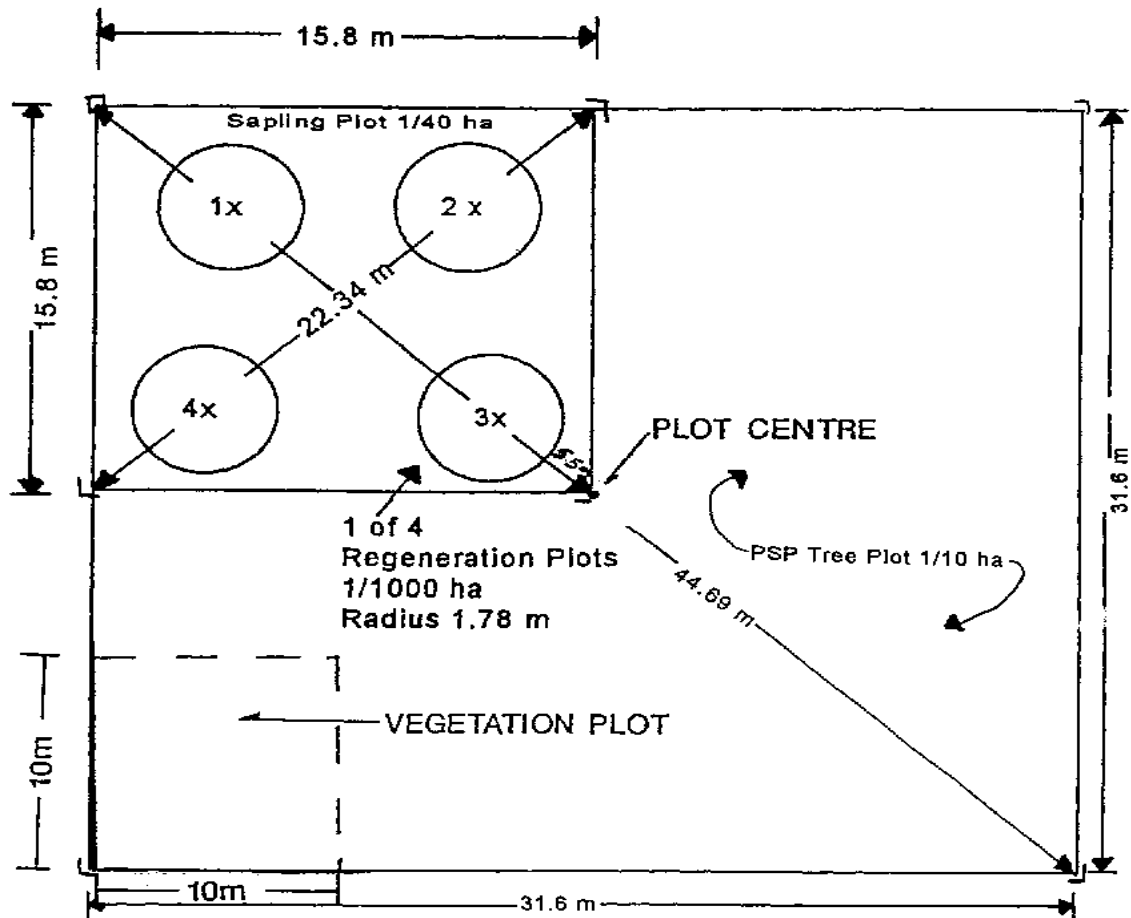


FIGURE 4.20 PLOT BOUNDARIES



- - T bar and plot plaque at corner.
- └ - Aluminum right-angle post at the exact corner.
- x ~ Galvanized metal post approximately 1 - 1 1/2 m. long.



FIGURE 4.21 STAND DYNAMICS PLOT LAYOUT

Agency	Group Number	Year	Month	Day	M	Trap	Reqs	Sex/UT	Section	Section	Section	L.S.	L.S.	L.S.	L.S.
01		1999	05	29	5	06	2	12	14	15		05	12	08	09

HWY 32

AVI Field Overlay: Understorey

AVI Field Overlay: Plot 3

AVI Field Overlay: Plot 4

Access: - AWR

Plot Damage	Buffer Damage
Browning (Nat)	North side along road + Natural
Code - 2	Code - 4

Comments: From intersection of Hwy 32 + the airport firebase road (in Swan Hills) travel South on Hwy 32 for 44.4 km + turn right. Travel 0.4 km + turn left. Travel 731 m from road junction to TP A. From TP A go 98 m @ 225° to Plot Center. Declination 20°E

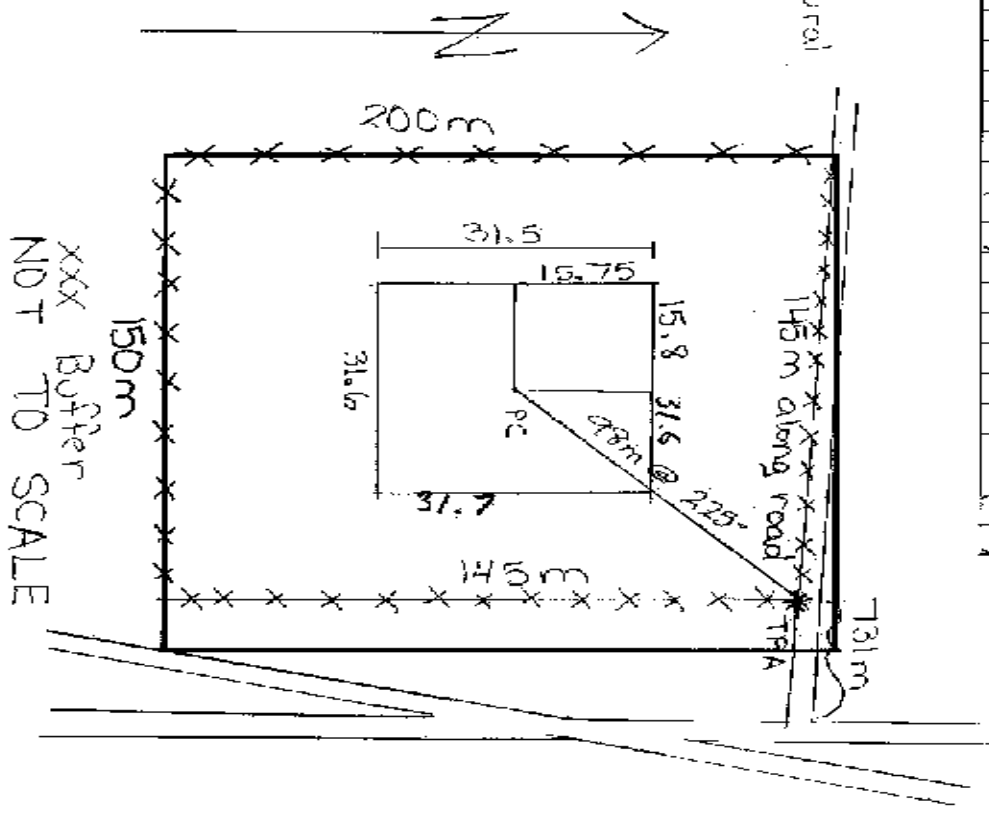


FIGURE 4.22 PLOT MAINTENANCE REPORT

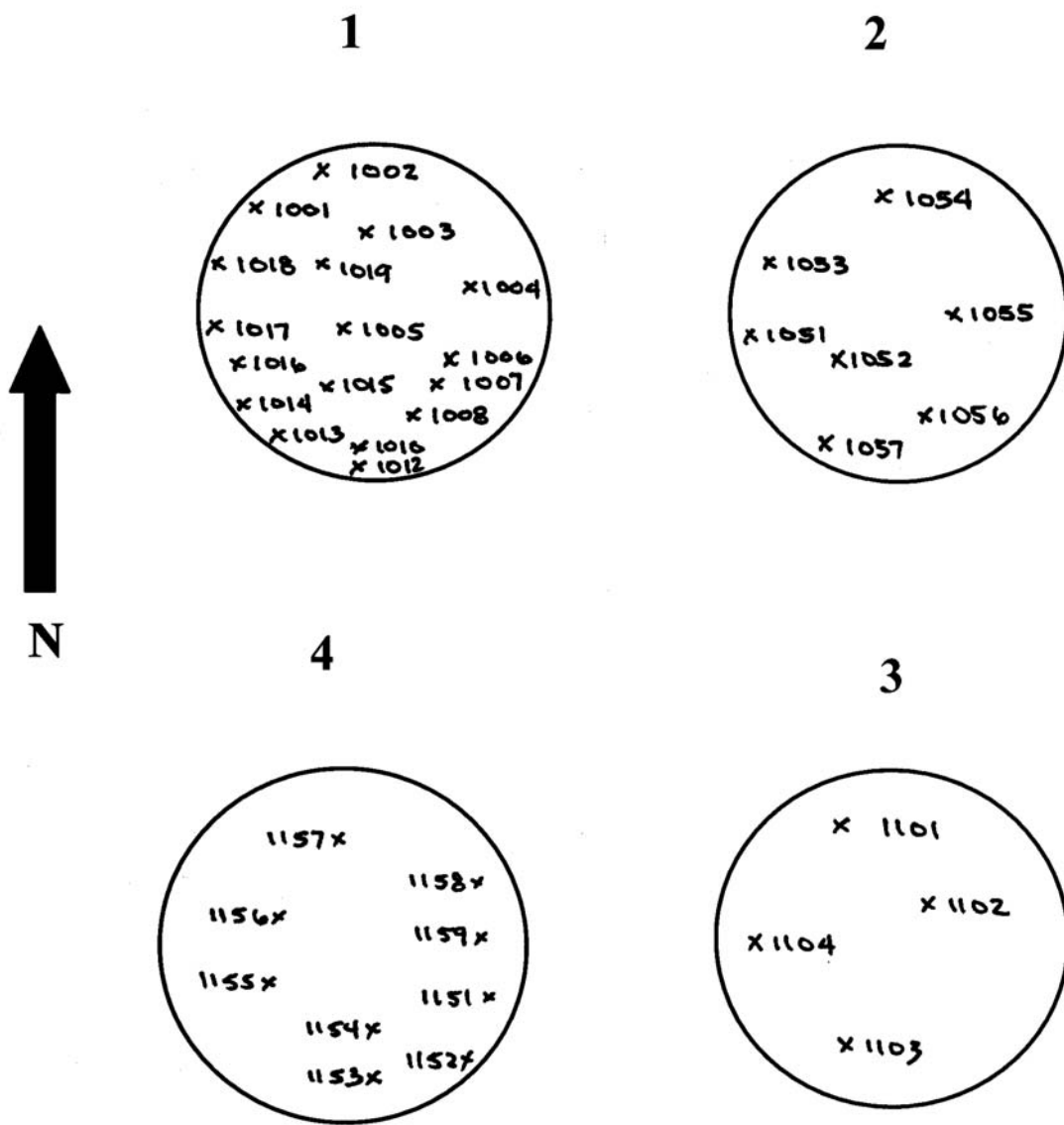


FIGURE 4.23 SEEDLING NUMBERING

STAND DYNAMICS TALLY SHEET

Page 1 of

Crew: LOGAN & KELSEY

Record Type 3 - Cruise Tally
Record Type 6 - Regeneration
Record Type 7 - Sapling
Record Type 8 - Tree Plot

Record Type	Group No.	Plot No.	Plot Type	Year	Month	Day
06	04	0210		90	08	22

Regen. Plot No.	Tree Number	Species	Species	DBH	DBH	Height	Height	Height	Height to Live Crown	CC	Condition Codes	Azimuth	Distance	Comments
1	1101011	A1W	A1W	11.1	11.9	11.3	11.5	11.5	11.5	00	00			
1	1101012	A1W	P1L	11.9	11.3	11.4	11.5	11.5	11.5	00	00	3210	16.9	SPECIES VV
1	1101013	P1L	P1L	11.1	12.0	12.9	13.2	13.2	13.2	00	00	3115	17.2	
1	1101014	P1B	P1B	13.2	13.5	13.0	14.1	14.1	14.1	00	00	3116	17.6	
1	1101015	P1L	P1L	11.5	11.6	11.0	11.5	11.5	11.5	00	00			
2	1101012	A1W	A1W	11.1	11.1	11.9	12.1	12.1	12.1	00	00	3211	16.9	
2	1101013	P1L	P1L	11.1	11.1	11.9	11.1	11.1	11.1	00	00			
2	1101014	P1L	P1L	11.1	11.1	11.8	11.0	11.0	11.0	02	02			
2	1101015	P1L	P1L	11.1	11.1	11.6	11.9	11.9	11.9	00	00			
2	1101016	P1L	P1L	11.1	11.1	11.7	11.0	11.0	11.0	19	19			
3	1111011	A1W	A1W	11.1	11.5	12.2	12.1	12.1	12.1	00	00			
3	1111012	A1W	A1W	11.4	11.9	11.9	12.1	12.1	12.1	00	00			
3	1111013	A1W	A1W	11.3	11.9	12.1	12.2	12.2	12.2	00	00			
3	1111014	A1W	A1W	12.6	12.7	13.0	13.0	13.0	13.0	01	01			HT VV
4	111511	S1W	S1W	11.1	11.6	11.0	11.5	11.5	11.5	00	00			
4	111512	S1W	S1W	11.1	11.1	11.4	11.4	11.4	11.4	00	00			
4	111513	S1W	S1W	11.1	11.1	11.0	11.0	11.0	11.0	00	00			

STM 101

FIGURE 4.24 STAND DYNAMICS TALLY SHEET (CSTM 101) RECORD TYPE 6

STAND DYNAMICS TALLY SHEET

Record Type	Group No.	Plot No.	Plot Type	Year	Month	Day
07	04	020	1	91	06	06

Record Type 3 - Cruise Tally
 Record Type 6 - Regeneration
 Record Type 7 - Sapling
 Record Type 8 - Tree Plot

Crew: _____
 SMITH & JONES

Regen. Plot No.	Tree Number	Species	Species	DBH	DBH	Height	Height	Height to Live Crown	CC	Condition Codes	Azimuth	Distance	Comments
	2001	P.L	P.L	11.2	11.6	2.0	1.2	1.1	C	00	360	11.2	
	2002	P.L	P.L	11.6	12.1	2.6	2.6	1.1	C	00	359	12.4	
	2003	S.W	S.W	11.7	12.7	2.9	3.2	1.1	C	00	356	4.6	
	2004	S.W	S.W	11.2	11.6	1.6	1.9	1.1	C	02	359	16.2	
	2005	S.W	A.W	12.0	12.5	3.2	13.7	1.1	C	01	355	11.3	SPECIES ✓
	2006	A.W	A.W	12.5	12.9	3.1	13.3	1.1	C	13	349	9.0	
	2007	A.W	A.W	12.9	13.2	3.1	13.3	1.1	C	00	347	18.0	
	2008	A.W	A.W	11.1	13.1	1.1	4.2	1.1	C	00	350	2.6	INGROWTH
	2009	S.W	S.W	11.9	11.9	1.1	11.5	1.1	C	00	320	11.4	

FIGURE 4.25 STAND DYNAMICS TALLY SHEET (CSTM 101) RECORD TYPE 7 (SAPLINGS)

STAND DYNAMICS TALLY SHEET

Page 4 of _____

Record Type	Group No.	Plot No.	Plot Type	Year	Month	Day
018	014	020	1	90	08	22

Record Type 3 - Cruise Tally
 Record Type 6 - Regeneration
 Record Type 7 - Sapling
 Record Type 8 - Tree Plot

Crew: SMITH & SMITH

Regen. Plot No.	Tree Number	Species	Species	DBH	DBH	Height	Height	Height to Live Crown	CC	Condition Codes	Azimuth	Distance	Comments
	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)
	310101	PIL	PIL	110.2	111.6	110.6	111.2	130.0	C	012	271	16.4	
	310102	PIL	PIL	110.1	112.1	110.6	110.6	110.0	C	010	145	14.9	
	310103	PIL	PIL	110.1	119.1	110.6	110.0	120.9	C	010	151.6	10.0	
	310104	PIL	PIL	110.1	119.6	110.6	110.0	117.6	C	010	161.0	11.9	IN GROWTH
	310105	PIL	PIL	110.0	110.0	110.6	110.0	117.1	C	010	151.8	16.0	
	310106	PIL	AW	110.1	119.1	110.6	110.0	116.2	C	010	116	17.9	
	310107	PIL	AW	112.3	112.3	110.6	115.2	111.0	C	010	121.2	19.6	
	310108	PIL	PIL	112.2	112.2	110.6	111.1	110.0	C	010	121.5	19.4	

FIGURE 4.26 STAND DYNAMICS TALLY SHEET (CSTM 101) RECORD TYPE 8 (TREE PLOT)

**STAND DYNAMICS
REGENERATION HEIGHT CLASS RECORD**

Page 1 of 1

Crew: Smith
Jones

Record Type	Group No.	Plot No.	Plot Type	Year	Month	Day
1	6	9	10	91	06	06

Species	Height Classes (cm)											
	0-10	11-20	21-30	31-40	41-50	51-60	61-70	71-80	81-90	91-100	101-120	121 +
1 PL	002											
2 AW									003			005

FIGURE 4.27 STAND DYNAMICS REGENERATION HEIGHT CLASS RECORD (CSTM 100) RECORD TYPE 61

STAND DYNAMICS VEGETATION

Record Type 3	Group No. 3	Plot No. 3	Plot Type 3	Year 10	Month 8	Day 21	Crew: <u>JACK JONES</u> <u>SALLY SMITH</u>	Page <u>5</u> of <u>5</u>
<u>05</u>	<u>014</u>	<u>0210</u>	<u>1</u>	<u>910</u>	<u>018</u>	<u>212</u>		

FIELD NAME	TREES		TALL SHRUBS		LOW SHRUBS		GROUND SHRUBS		TOTAL SHRUBS		HERBS		GRASS		MOSS LICHEN		TOTAL ALL	
	%	VIGOR	%	VIGOR	%	VIGOR	%	VIGOR	%	VIGOR	%	VIGOR	%	VIGOR	%	VIGOR	%	VIGOR
P I N N Y C O N	5	5	2															
P O P U L T R E				4	2													
P O P U L B A L				2	2													
B E T U L P A P				0	2													
A L N U C R I				1	2													
S A L I S I P P				0	2													
R I B I E L A C					0	2												
L E D U G R O					1	2												
L I N N B I O R								1	2									
V A C C M Y R								1	2									
V A C C V I T								1	2									
M A L L A C I A N											0	2						
E P I L A N G											4	2						
P V R O S P P											0	2						
F R A G V I R											0	2						
A R A L N U D											0	2						
D I L C R I S P P																5	2	
P H E U S I C H																2	2	
P O L Y J U N																8	2	
C A R I S P													8	2				

① Record Type	Comments
C	BROWSING & GRAZING -
C	DISEASE > 20%
C	OTHER -

FIGURE 4.28 VEGETATION DESCRIPTION FORM

ENVIRONMENTAL PROTECTION

Plot Number <input type="text"/>	Measurement No. <input type="text"/>	Year <input type="text"/>	Month <input type="text"/>	Day <input type="text"/>	Plot Type <input type="text"/>	CREW: <input type="text"/>
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NO CHANGES FROM LAST REMEAS.

LEAVE BLANK IF RETREATMENT HAS NOT OCCURRED.

1. STAND TENDING YEAR OF RETREATMENT

TYPE OF RETREATMENT: THINNED % CLEANED %

 DEC. ONLY

 FERTILIZED TYPE

 RATE kg/ha

2. REPLANTED: SPECIES STOCKING DATE

MO. YR.

3. WEATHER / NATURAL DAMAGE:

FLOODING %

BROWSING %

SNOW PRESS %

FROST DAMAGE %

4. PHYSICAL DESCRIPTION:

WINDROW IN TREE PLOT

EXPOSED MINERAL SOIL %

STANDARD BUFFER (Y / N)

5. PLOT SIZES:

SAPLING m X m

TREE m X m

COMMENTS

FIGURE 4.29 PLOT RETREATMENT REPORT (RECORD TYPE 9)

Record Type	Grp.	Plot #	Plot Type	Year	Month	Day	Meas. #	Crew	Page	of	1984 HT	1985 HT	1986 HT	1987 HT	1988 HT	1989 HT	1990 HT	1991 HT	1992 HT	1993 HT	1994 HT	1995 HT	1996 HT
6	4	3		95	05	01			1	3													
Regen. Plot #	Tree #	Sp.	Tree Type	Year	Month	Day	Meas. #																
1	1001	PL	A	85	30	90											42	55	62	75	91	105	121
1	1008	PL	I	87	2	-										4	10	18	25	40	58	74	102
1	1010	SW	A	71	54	78					64	72	70	91	121	132	145	161	180	191	205	218	234
	CC																						
1	1015	AW	I	80							1984 HT	1985 HT	1986 HT										
							252	286	295	457													
2	1051	PL	A	79	25	83						50	101	155	280	370	450	490	550	720	840	910	980
2	1058	PL	I	89	20	92																	35
2	1062	PL	I	90	18	92																	24
2	1074	PL	I	90	25	93															32	38	45
2	1082	PL	I	89	-	-																	62
2	1091	PL	I	90	-	-																	42
7	2095	PL	I	84	15	87											25	62	88	101	150	240	355
7	2110	PL	I	85	18	88												55	65	91	121	201	305
7	2004	PL	I	85	22	88								40	52	65	81	111	155	210	310	410	490
7	2010	PL	I	85																			390

FIGURE 4.30 STAND DYNAMICS TREE AGE TALLY SHEET



FIGURE 4.31 DIE BACK