

Database Code: TP108

Title:Demonstration of Ecosystem Management Options (DEMO) Study, western Oregon and Washington (post-treatment data, 1998-2016)

Abstract:

The Demonstration of Ecosystem Management Options (DEMO) Study is a regional-scale experiment in variable-retention harvest, established at six sites in western Oregon and Washington. Initiated in 1994, DEMO was designed to assess newly established standards and guidelines for regeneration harvests in mature, coniferous forests of the Pacific Northwest. The experiment is a randomized complete block design. It includes six treatments that represent strong contrasts in the level of retention (15-100% of original basal area) and the spatial pattern in which trees are retained (uniformly dispersed vs. aggregated in 1-ha patches). The factorial nature of the design (15 and 40% retention in both an aggregated and dispersed pattern) is unique among variable-retention experiments, regionally and globally. Long-term measurements of vegetation response lie at the core the DEMO Study. Key response variables include overstory tree growth and mortality, the dynamics of snags, regeneration of conifers (including planted seedlings and natural recruitment), and the composition, structure and diversity of the understory (including herbaceous, woody, and bryophyte species). Pre-treatment measurements were made between 1994 and 1996 (data are archived under Study Code TP104). Post-treatments measurements have occurred at ~5- to 7-year intervals between 1998 and 2016 (data are archived under Study Code TP108).

Keywords:community structure;stand structure;silviculture;forest ecology;plant ecology;community dynamics;successional dynamics;biodiversity;plant species composition;species diversity;permanent plots;tree growth;tree mortality;regeneration;forest disturbance;timber harvest;vascular plants;herbs;shrubs;trees;bryophytes;

Date data commenced:1994-06-15

Date data terminated:2016-08-31

Principal Investigator:Charles B. Halpern

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1. General Plot Characteristics (U-A1)

Attribute List:

DATACODE	N	N	char(5)	enum			
ENTITY	N	N	numeric(2,0)	range	1.0000	1.0000	number
YEAR	T	N	numeric(4,0)	range	1998.0000	1999.0000	YYYY
DISTRICT	N	N	char(4)	place			
BLOCK	T	N	char(1)	enum	1.0000	8.0000	
TRT	N	N	char(1)	enum	1.0000	6.0000	
PLOT	T	N	char(6)	place			
TRLOC_A	N	N	char(1)	enum			
TRLOC_B	N	N	char(1)	enum			
TRLOC_C	N	N	char(1)	enum			
TRLOC_D	N	N	char(1)	enum			
PTYPE	N	N	char(1)	enum			
PERSONNEL	N	N	varchar(30)	freetext			
SAMPLEDATE	N	Y	datetime	range			YYYY-MM-DD

2. Transect Bearings, Rebar Distances, Grid Point Conditions, and Associated Notes (U-A2)

Attribute List:

DATACODE	N	N	char(5)	enum			
ENTITY	N	N	numeric(2,0)	range	2.0000	2.0000	number
UPDATE_YR	Y	N	numeric(4,0)	range	1994.0000	2016.0000	YYYY
DISTRICT	N	N	char(4)	place			
BLOCK	T	N	char(1)	enum	1.0000	8.0000	
PLOT	T	N	char(6)	place			
TRANS	Y	N	char(1)	enum			
BEARING	N	Y	numeric(5,1)	range	0.0000	355.0000	deg
REBAR4	N	Y	numeric(5,2)	range	2.9000	9.9000	m
REBAR10	N	Y	numeric(5,2)	range	4.0000	13.0500	m
REBARINT	N	Y	numeric(5,2)	range	1.7000	12.8000	m
REBARINT2	N	Y	numeric(5,2)	range	3.8000	9.7000	m
REBARINT3	N	Y	numeric(5,2)	range	6.4000	9.3000	m
REBARINT4	N	Y	numeric(5,2)	range	7.2000	9.1000	m

COMMENTS	N	Y	varchar(254)	freetext
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3. Bryophyte and Lichen Species' Presence/Absence and Substrate Associations in Harvested and Uncut Plots (U-B1)

Attribute List:

DATACODE	N	N	char(5)	enum			
ENTITY	N	N	numeric(2,0)	range	3.0000	3.0000	number
YEAR	N	N	numeric(4,0)	range	1998.0000	1999.0000	YYYY
DISTRICT	N	N	char(4)	place			
BLOCK	N	N	char(1)	enum	1.0000	8.0000	
TRT	N	N	char(1)	enum	1.0000	6.0000	
PLOT	N	N	char(6)	place			
TRANS	N	N	char(1)	enum			
LIFEFORM	N	Y	char(2)	enum			
BLSPP	N	Y	char(6)	taxa			
PRESENT1	N	Y	char(1)	enum			
SUBS11	N	Y	char(1)	enum			
SUBS12	N	Y	char(1)	enum			
SUBS13	N	Y	char(1)	enum			
PRESENT2	N	Y	char(1)	enum			
SUBS21	N	Y	char(1)	enum			
SUBS22	N	Y	char(1)	enum			
SUBS23	N	Y	char(1)	enum			
PRESENT3	N	Y	char(1)	enum			
SUBS31	N	Y	char(1)	enum			
SUBS32	N	Y	char(1)	enum			
SUBS33	N	Y	char(1)	enum			
PRESENT4	N	Y	char(1)	enum			
SUBS41	N	Y	char(1)	enum			
SUBS42	N	Y	char(1)	enum			
SUBS43	N	Y	char(1)	enum			
PRESENT5	N	Y	char(1)	enum			
SUBS51	N	Y	char(1)	enum			
SUBS52	N	Y	char(1)	enum			
SUBS53	N	Y	char(1)	enum			
PRESENT6	N	Y	char(1)	enum			

SUBS61	N	Y	char(1)	enum			
SUBS62	N	Y	char(1)	enum			
SUBS63	N	Y	char(1)	enum			
PTYPE	N	N	char(1)	enum			
PERSONNEL	N	N	varchar(30)	freetext			
SAMPLEDATE	N	Y	datetime	range	6/4/1998 12:00:00 AM	9/30/1999 12:00:00 AM	YYYY-MM-DD

4. Bryophyte and Lichen Total Cover in Harvested and Uncut Plots (U-B1)

Attribute List:

DATA CODE	N	N	char(5)	enum			
ENTITY	N	N	numeric(2,0)	range	4.0000	4.0000	number
YEAR	T	N	numeric(4,0)	range	1998.0000	2009.0000	YYYY
DISTRICT	N	N	char(4)	place			
BLOCK	T	N	char(1)	enum	1.0000	8.0000	
TRT	N	N	char(1)	enum	1.0000	6.0000	
PLOT	T	N	char(6)	place			
TRANS	T	N	char(1)	enum			
LIFEFORM	T	N	char(2)	enum			
COVER1	N	Y	numeric(5,1)	range	0.0000	100.0000	%
COVER2	N	Y	numeric(5,1)	range	0.0000	100.0000	%
COVER3	N	Y	numeric(5,1)	range	0.0000	100.0000	%
COVER4	N	Y	numeric(5,1)	range	0.0000	100.0000	%
COVER5	N	Y	numeric(5,1)	range	0.0000	100.0000	%
COVER6	N	Y	numeric(5,1)	range	0.0000	100.0000	%
PTYPE	N	N	char(1)	enum			
PERSONNEL	N	N	varchar(30)	freetext			
SAMPLEDATE	N	Y	datetime	range	6/1/1998 12:00:00 AM	8/12/2009 12:00:00 AM	YYYY-MM-DD

5. Herb Layer in Harvested Plots: Presence/Absence, Number of Tree Seedlings (U-B2)

Attribute List:

DATA CODE	N	N	char(5)	enum			
ENTITY	N	N	numeric(2,0)	range	5.0000	5.0000	number
YEAR	T	N	numeric(4,0)	range	1998.0000	2000.0000	YYYY
DISTRICT	N	N	char(4)	place			
BLOCK	T	N	char(1)	enum	1.0000	8.0000	

TRT	N	N	char(1)	enum	1.0000	6.0000	
PLOT	T	N	char(6)	place			
TRANS	T	Y	char(1)	enum			
LIFFORM	T	Y	char(2)	enum			
SPECIES	T	Y	char(6)	taxa			
OCCURRENCE	T	N	numeric(2,0)	range	1.0000	11.0000	number
PRESENT1	N	Y	char(1)	enum			
NRTRSEED1	N	Y	numeric(3,0)	range	1.0000	10.0000	number
PRESENT2	N	Y	char(1)	enum			
NRTRSEED2	N	Y	numeric(3,0)	range	1.0000	9.0000	number
PRESENT3	N	Y	char(1)	enum			
NRTRSEED3	N	Y	numeric(3,0)	range	1.0000	10.0000	number
PRESENT4	N	Y	char(1)	enum			
NRTRSEED4	N	Y	numeric(3,0)	range	1.0000	9.0000	number
PRESENT5	N	Y	char(1)	enum			
NRTRSEED5	N	Y	numeric(3,0)	range	1.0000	12.0000	number
PRESENT6	N	Y	char(1)	enum			
NRTRSEED6	N	Y	numeric(3,0)	range	1.0000	8.0000	number
PTYPE	N	N	char(1)	enum			
PERSONNEL	N	Y	varchar(30)	freetext			
SAMPLEDATE	N	N	datetime	range	6/4/1998 12:00:00 AM	7/30/2000 12:00:00 AM	YYYY-MM-DD

6. Herb Layer in Harvested Plots: Cover, Number of Tree Seedlings (U-B2)

Attribute List:

DATACODE	N	N	char(5)	enum			
ENTITY	N	N	numeric(2,0)	range	6.0000	6.0000	number
YEAR	T	N	numeric(4,0)	range	1998.0000	2009.0000	YYYY
DISTRICT	N	N	char(4)	place			
BLOCK	T	N	char(1)	enum	1.0000	8.0000	
TRT	N	N	char(1)	enum	1.0000	6.0000	
PLOT	T	N	char(6)	place			
TRANS	T	Y	char(1)	enum			
LIFFORM	T	N	char(2)	enum			
TOTCOVER1	N	Y	numeric(5,1)	range	0.0000	100.0000	%
NRTRSEED1	N	Y	numeric(3,0)	range	0.0000	12.0000	number

TOTCOVER2	N	Y	numeric(5,1)	range	0.0000	100.0000	%
NRTRSEED2	N	Y	numeric(3,0)	range	0.0000	40.0000	number
TOTCOVER3	N	Y	numeric(5,1)	range	0.0000	100.0000	%
NRTRSEED3	N	Y	numeric(3,0)	range	0.0000	11.0000	number
TOTCOVER4	N	Y	numeric(5,1)	range	0.0000	100.0000	%
NRTRSEED4	N	Y	numeric(3,0)	range	0.0000	42.0000	number
TOTCOVER5	N	Y	numeric(5,1)	range	0.0000	100.0000	%
NRTRSEED5	N	Y	numeric(3,0)	range	0.0000	23.0000	number
TOTCOVER6	N	Y	numeric(5,1)	range	0.0000	100.0000	%
NRTRSEED6	N	Y	numeric(3,0)	range	0.0000	26.0000	number
PTYPE	N	N	char(1)	enum			
PERSONNEL	N	Y	varchar(30)	freetext			
SAMPLEDATE	N	Y	datetime	range	6/4/1998 12:00:00 AM	9/30/2009 12:00:00 AM	YYYY-MM-DD

7. Herb Layer in Uncut Plots: Cover, Height, Number of Tree Seedlings (U-B3)

Attribute List:

DATACODE	N	N	char(5)	enum			
ENTITY	N	N	numeric(2,0)	range	7.0000	7.0000	number
YEAR	T	N	numeric(4,0)	range	1998.0000	2009.0000	YYYY
DISTRICT	N	N	char(4)	place			
BLOCK	T	N	char(1)	enum	1.0000	8.0000	
TRT	N	N	char(1)	enum	1.0000	6.0000	
PLOT	T	N	char(6)	place			
TRANS	T	N	char(1)	enum			
LIFEFORM	Y	N	char(2)	enum			
SPECIES	T	Y	char(6)	taxa			
OCCURRENCE	Y	Y	numeric(2,0)	range	1.0000	9.0000	number
HCOVER1	N	Y	numeric(5,1)	range	0.0000	100.0000	%
HEIGHT1	N	Y	numeric(3,0)	range	-99.0000	190.0000	cm
TREESEED1	N	Y	numeric(3,0)	range	0.0000	23.0000	number
HCOVER2	N	Y	numeric(5,1)	range	0.0000	100.0000	%
HEIGHT2	N	Y	numeric(3,0)	range	-99.0000	178.0000	cm
TREESEED2	N	Y	numeric(3,0)	range	0.0000	76.0000	number
HCOVER3	N	Y	numeric(5,1)	range	0.0000	100.0000	%
HEIGHT3	N	Y	numeric(3,0)	range	0.0000	155.0000	cm

TREESEED3	N	Y	numeric(3,0)	range	0.0000	34.0000	number
HCOVER4	N	Y	numeric(5,1)	range	0.0000	100.0000	%
HEIGHT4	N	Y	numeric(3,0)	range	-99.0000	180.0000	cm
TREESEED4	N	Y	numeric(3,0)	range	0.0000	42.0000	number
HCOVER5	N	Y	numeric(5,1)	range	0.0000	100.0000	%
HEIGHT5	N	Y	numeric(3,0)	range	-99.0000	160.0000	cm
TREESEED5	N	Y	numeric(3,0)	range	0.0000	23.0000	number
HCOVER6	N	Y	numeric(5,1)	range	0.0000	100.0000	%
HEIGHT6	N	Y	numeric(3,0)	range	-99.0000	160.0000	cm
TREESEED6	N	Y	numeric(3,0)	range	0.0000	26.0000	number
PTYPE	N	N	char(1)	enum			
PERSONNEL	N	N	varchar(30)	freetext			
SAMPLEDATE	N	Y	datetime	range	6/4/1998 12:00:00 AM	8/12/2009 12:00:00 AM	YYYY-MM-DD

8. Ground Surface Conditions (U-C)

Attribute List:

DATACODE	N	N	char(5)	enum			
ENTITY	N	N	numeric(2,0)	range	8.0000	8.0000	number
YEAR	T	N	numeric(4,0)	range	1998.0000	2009.0000	YYYY
DISTRICT	N	N	char(4)	place			
BLOCK	T	N	char(1)	enum			
TRT	N	N	char(1)	enum			
PLOT	T	N	char(6)	place			
TRANS	T	N	char(1)	enum			
MICROPLOT	T	N	numeric(1,0)	range	1.0000	6.0000	number
SUBSTRATE	T	N	char(7)	enum			
COVER	N	Y	numeric(5,1)	range	0.0000	100.0000	%
PTYPE	N	N	char(1)	enum			
PERSONNEL	N	Y	varchar(30)	freetext			
SAMPLEDATE	N	Y	datetime	range	6/4/1998 12:00:00 AM	8/12/2009 12:00:00 AM	YYYY-MM-DD

9. Tall Shrub and Understory Trees: Cover (U-D1)

Attribute List:

DATACODE	N	N	char(5)	enum			
ENTITY	N	N	numeric(2,0)	range	9.0000	9.0000	number

YEAR	T	N	numeric(4,0)	range	1998.0000	2009.0000	YYYY
DISTRICT	N	N	char(4)	place			
BLOCK	T	N	char(1)	enum	1.0000	8.0000	
TRT	N	N	char(1)	enum	1.0000	6.0000	
PLOT	T	N	char(6)	place			
TRANS	T	N	char(1)	enum			
LIFEFORM	N	N	char(2)	enum			
US_SPP	T	Y	char(6)	taxa			
LC	T	N	numeric(1,0)	range	1.0000	5.0000	number
START1	N	Y	numeric(4,2)	range	0.0000	5.9900	m
END1	N	Y	numeric(4,2)	range	0.0100	6.0000	m
START2	N	Y	numeric(4,2)	range	0.0300	5.9900	m
END2	N	Y	numeric(4,2)	range	0.0500	6.0000	m
START3	N	Y	numeric(4,2)	range	0.1000	5.9900	m
END3	N	Y	numeric(4,2)	range	0.1500	6.0000	m
START4	N	Y	numeric(4,2)	range	0.3100	5.9900	m
END4	N	Y	numeric(4,2)	range	0.3400	6.0000	m
START5	N	Y	numeric(4,2)	range	0.4700	5.9900	m
END5	N	Y	numeric(4,2)	range	0.5100	6.0000	m
PTYPE	N	Y	char(1)	enum			
PERSONNEL	N	N	varchar(30)	freetext			
SAMPLEDATE	N	N	datetime	range	6/4/1998 12:00:00 AM	8/12/2009 12:00:00 AM	YYYY-MM-DD

10. Tall Shrub and Understory Trees: Height (U-D2)

Attribute List:

DATA CODE	N	N	char(5)	enum			
ENTITY	N	N	numeric(2,0)	range	10.0000	10.0000	number
YEAR	T	N	numeric(4,0)	range	1998.0000	2009.0000	YYYY
DISTRICT	N	N	char(4)	place			
BLOCK	T	N	char(1)	enum	1.0000	8.0000	
TRT	N	N	char(1)	enum	1.0000	6.0000	
PLOT	T	N	char(6)	place			
TRANS	T	N	char(1)	enum			
LIFEFORM	N	N	char(2)	enum			
US_SPP	T	Y	char(6)	taxa			

HT1	N	Y	numeric(4,1)	range	0.0000	20.0000	m
HT2	N	Y	numeric(4,1)	range	0.0000	15.0000	m
HT3	N	Y	numeric(4,1)	range	0.0000	20.0000	m
HT4	N	Y	numeric(4,1)	range	0.0000	15.0000	m
HT5	N	Y	numeric(4,1)	range	0.0000	15.0000	m
HT6	N	Y	numeric(4,1)	range	0.0000	15.0000	m
PTYPE	N	Y	char(1)	enum			
PERSONNEL	N	N	varchar(30)	freetext			
SAMPLEDATE	N	N	datetime	range	6/4/1998 12:00:00 AM	8/12/2009 12:00:00 AM	YYYY-MM-DD

11. Coarse Woody Debris (U-E)

Attribute List:

DATACODE	N	N	char(5)	enum			
ENTITY	N	N	numeric(2,0)	range	11.0000	11.0000	number
YEAR	Y	N	numeric(4,0)	range	1998.0000	2009.0000	YYYY
DISTRICT	N	N	char(4)	place			
BLOCK	Y	N	char(1)	enum	1.0000	8.0000	
TRANS	Y	N	char(1)	enum			
TRT	N	N	char(1)	enum	1.0000	6.0000	
PLOT	Y	N	char(6)	place			
TREESPP	Y	Y	char(6)	taxa			
PIECE_NO	Y	Y	numeric(2,0)	range	1.0000	11.0000	number
DIAMETER	N	Y	numeric(3,0)	range	10.0000	180.0000	cm
LENGTH	N	Y	char(1)	enum	1.0000	5.0000	
LDECAY	N	Y	char(1)	enum	1.0000	5.0000	
PTYPE	N	Y	char(1)	enum			
PERSONNEL	N	N	varchar(30)	freetext			
SAMPLEDATE	N	N	datetime	range	6/4/1998 12:00:00 AM	8/12/2009 12:00:00 AM	YYYY-MM-DD

12. Natural Regeneration, 1998-1999 (U-F)

Attribute List:

DATACODE	N	N	char(5)	enum			
ENTITY	N	N	numeric(2,0)	range	12.0000	12.0000	number
YEAR	T	N	numeric(4,0)	range	1998.0000	1999.0000	YYYY
DISTRICT	N	N	char(4)	place			

BLOCK	T	N	char(1)	enum	1.0000	8.0000	
TRT	N	N	char(1)	enum	1.0000	6.0000	
PLOT	T	N	char(6)	place			
TRANS	T	N	char(1)	enum			
TREESPP	T	Y	char(6)	taxa			
TOTSEED1	N	N	numeric(3,0)	range	0.0000	83.0000	number
TOTSEED2	N	N	numeric(3,0)	range	0.0000	34.0000	number
TOTSEED3	N	N	numeric(3,0)	range	0.0000	18.0000	number
TOTSEED4	N	N	numeric(3,0)	range	0.0000	19.0000	number
TOTSEED5	N	N	numeric(3,0)	range	0.0000	5.0000	number
TOTSEED6	N	N	numeric(3,0)	range	0.0000	6.0000	number
PTYPE	N	Y	char(1)	enum			
PERSONNEL	N	N	varchar(30)	freetext			
SAMPLEDATE	N	Y	datetime	range	6/2/1998 12:00:00 AM	9/13/1999 12:00:00 AM	YYYY-MM-DD

13. Overstory Trees (O-A, O-E, and O-G)

Attribute List:

DATA CODE	N	N	char(5)	enum			
ENTITY	N	N	numeric(2,0)	range	13.0000	13.0000	number
YEAR	Y	N	numeric(4,0)	range	1998.0000	2016.0000	YYYY
DISTRICT	N	N	char(4)	place			
BLOCK	N	N	char(1)	enum			
TRT	N	N	char(1)	enum			
PLOT	N	N	char(6)	place			
QTR	N	Y	numeric(1,0)	range	1.0000	4.0000	number
TAGNO	N	Y	numeric(5,0)	range	1.0000	99999.0000	number
TREESPP	N	Y	char(6)	taxa			
DBH	N	Y	numeric(5,1)	range	1.6000	171.4000	cm
STATUS	N	N	char(1)	enum			
TOPHT	N	Y	numeric(5,2)	range	1.3000	77.3000	m
CANOPY	N	N	char(1)	enum			
TREEVIGOR	N	N	char(1)	enum			
CROWN1	N	N	char(1)	enum			
CROWN2	N	N	char(1)	enum			
CROWN3	N	N	char(1)	enum			

BOLE1	N	N	char(1)	enum			
BOLE2	N	N	char(1)	enum			
BOLE3	N	N	char(1)	enum			
DISTURB1	N	N	char(1)	enum			
DISTURB2	N	N	char(1)	enum			
OLDTAG	N	Y	numeric(4,0)	range	1.0000	9999.0000	number
PLANTED	N	N	char(1)	enum			
PTYPE	N	N	char(1)	enum			
TCOMMENT	N	Y	varchar(254)	freetext			
PERSONNEL	N	N	varchar(30)	freetext			
SAMPLEDATE	N	N	datetime	range	6/4/1998 12:00:00 AM	8/31/2016 12:00:00 AM	YYYY-MM-DD
TREEID	Y	N	varchar(13)	freetext			

14. Snags (O-B, O-F, and O-F2)

Attribute List:

DATACODE	N	N	char(5)	enum			
ENTITY	N	N	numeric(2,0)	range	14.0000	14.0000	number
YEAR	Y	N	numeric(4,0)	range	1998.0000	2016.0000	YYYY
DISTRICT	N	N	char(4)	place			
BLOCK	N	N	char(1)	enum	1.0000	8.0000	
TRT	N	N	char(1)	enum	1.0000	6.0000	
PLOT	N	N	char(6)	place			
QTR	N	Y	numeric(1,0)	range	1.0000	4.0000	number
TAG	N	Y	numeric(5,0)	range	1.0000	99999.0000	number
OLDTAG	N	Y	numeric(4,0)	range	2.0000	7916.0000	number
TREESPP	N	Y	char(6)	taxa			
STOPHT	N	Y	numeric(5,1)	range	0.0000	75.0000	m
SDBH	N	Y	numeric(3,0)	range	24.0000	200.0000	cm
SHTCLASS	N	Y	char(1)	enum	1.0000	4.0000	
SDECAY	N	Y	char(1)	enum	1.0000	5.0000	
LEAN	N	Y	numeric(3,0)	range	0.0000	90.0000	deg angle
ORIGIN	N	Y	char(1)	enum			
SNAGSTATUS	N	Y	char(1)	enum			
PTYPE	N	Y	char(1)	enum			
COMMENTS	N	Y	varchar(254)	freetext			

PERSONNEL	N	N	varchar(30)	freetext			
SAMPLEDATE	N	Y	datetime	range	6/4/1998 12:00:00 AM	8/31/2016 12:00:00 AM	YYYY-MM-DD
SNAGID	Y	Y	varchar(13)	freetext			

15. Tree Heights, Post-harvest (O-C)

Attribute List:

DATACODE	N	N	char(5)	enum			
ENTITY	N	N	numeric(2,0)	range	15.0000	15.0000	number
YEAR	Y	N	numeric(4,0)	range	1999.0000	2016.0000	YYYY
DISTRICT	N	N	char(4)	place			
BLOCK	N	N	char(1)	enum	1.0000	8.0000	
TRT	N	N	char(1)	enum	1.0000	6.0000	
PLOT	N	N	char(6)	place			
QTR	N	Y	numeric(1,0)	range	1.0000	4.0000	number
TAGNO	N	N	numeric(5,0)	range	1.0000	99999.0000	number
TREESPP	N	Y	char(6)	taxa			
CANOPY	N	Y	char(1)	enum			
DBH	N	Y	numeric(5,1)	range	2.1000	180.0000	cm
TOPHT	N	Y	numeric(5,2)	range	0.6000	80.0000	m
HTLOWBR	N	Y	numeric(5,2)	range	0.0000	60.0000	m
PTYPE	N	N	char(1)	enum			
COMMENTS	N	Y	varchar(254)	freetext			
PERSONNEL	N	Y	varchar(30)	freetext			
SAMPLEDATE	N	Y	datetime	range	9/9/1999 12:00:00 AM	8/31/2016 12:00:00 AM	YYYY-MM-DD
TREEID	Y	N	varchar(13)	freetext			

16. Percent Overstory Canopy Cover: Truck Mirrors (U-H)

Attribute List:

DATACODE	N	N	char(5)	enum			
ENTITY	N	N	numeric(2,0)	range	16.0000	16.0000	number
YEAR	T	N	numeric(4,0)	range	1998.0000	1999.0000	YYYY
DISTRICT	N	N	char(4)	place			
BLOCK	T	N	char(1)	enum	1.0000	8.0000	
TRT	N	N	char(1)	enum	1.0000	6.0000	
PLOT	T	N	char(6)	place			

LOCATION	T	N	char(1)	enum				
MMARK	T	Y	char(1)	enum				
NECOVER	N	Y	numeric(3,0)	range	0.0000	100.0000	%	
NWCOVER	N	Y	numeric(3,0)	range	0.0000	100.0000	%	
SECOVER	N	Y	numeric(3,0)	range	0.0000	100.0000	%	
SWCOVER	N	Y	numeric(3,0)	range	0.0000	100.0000	%	
PTYPE	N	N	char(1)	enum				
COMMENTS	N	Y	varchar(254)	freetext				
PERSONNEL	N	N	varchar(30)	freetext				
SAMPLEDATE	N	Y	datetime	range				YYYY-MM-DD

17. Disturbance Assessment: Cover (U-I1)

Attribute List:

DATACODE	N	N	char(5)	enum				
ENTITY	N	N	numeric(2,0)	range	17.0000	17.0000	number	
YEAR	T	N	numeric(4,0)	range	1998.0000	1999.0000	YYYY	
DISTRICT	N	N	char(4)	place				
BLOCK	T	N	char(1)	enum	1.0000	8.0000		
TRT	N	N	char(1)	enum	1.0000	6.0000		
PLOT	T	N	char(6)	place				
TRANS	T	N	char(1)	enum				
COVTYPE	T	N	char(7)	enum				
LC	T	N	numeric(1,0)	range	1.0000	3.0000	number	
CSTART1	N	Y	numeric(4,2)	range	0.0000	5.9800	m	
CEND1	N	Y	numeric(4,2)	range	0.0200	6.0000	m	
CSTART2	N	Y	numeric(4,2)	range	0.1900	5.9800	m	
CEND2	N	Y	numeric(4,2)	range	0.3200	6.0000	m	
CSTART3	N	Y	numeric(4,2)	range	0.4000	5.9800	m	
CEND3	N	Y	numeric(4,2)	range	0.5300	6.0000	m	
CSTART4	N	Y	numeric(4,2)	range	0.5800	5.9700	m	
CEND4	N	Y	numeric(4,2)	range	1.2800	6.0000	m	
CSTART5	N	Y	numeric(4,2)	range	1.4600	5.9800	m	
CEND5	N	Y	numeric(4,2)	range	1.8000	6.0000	m	
PTYPE	N	Y	char(1)	enum				
PERSONNEL	N	N	varchar(30)	freetext				

SAMPLEDATE	N	Y	datetime	range	6/4/1998 12:00:00 AM	9/22/1999 12:00:00 AM	YYYY-MM-DD
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18. Disturbance Assessment: Slash Depth (U-I2)

Attribute List:

DATACODE	N	N	char(5)	enum			
ENTITY	N	N	numeric(2,0)	range	18.0000	18.0000	number
YEAR	T	N	numeric(4,0)	range	1998.0000	1999.0000	YYYY
DISTRICT	N	N	char(4)	place			
BLOCK	T	N	char(1)	enum	1.0000	8.0000	
TRT	N	N	char(1)	enum	1.0000	6.0000	
PLOT	T	N	char(6)	place			
TRANS	T	N	char(1)	enum			
METMARK	T	N	numeric(3,1)	range	0.5000	6.0000	m
DEPTH	N	Y	numeric(3,0)	range	0.0000	169.0000	cm
PTYPE	N	Y	char(1)	enum			
PERSONNEL	N	N	varchar(30)	freetext			
SAMPLEDATE	N	Y	datetime	range	6/4/1998 12:00:00 AM	9/30/1999 12:00:00 AM	YYYY-MM-DD

19. Planted Trees (U-G, U-G2)

Attribute List:

DATACODE	N	N	char(5)	enum			
ENTITY	N	N	numeric(2,0)	range	19.0000	19.0000	number
YEAR	Y	N	numeric(4,0)	range	1998.0000	2009.0000	YYYY
DISTRICT	N	N	char(4)	place			
BLOCK	N	N	char(1)	enum	1.0000	8.0000	
TRT	N	N	char(1)	enum	1.0000	6.0000	
PLOT	N	N	char(6)	place			
QTR	N	Y	numeric(1,0)	range	1.0000	4.0000	number
TAGNO	N	Y	numeric(5,0)	range	1.0000	9999.0000	number
OLDTAG	N	Y	numeric(4,0)	range	1.0000	9999.0000	number
TREESPP	N	Y	char(6)	taxa			
HEIGHT	N	Y	numeric(4,0)	range	2.0000	2500.0000	cm
HT2002	N	Y	numeric(4,0)	range	11.0000	360.0000	cm
LEADGRWTH1	N	Y	numeric(5,1)	range	0.0000	99.0000	cm
LEADGRWTH2	N	Y	numeric(5,1)	range	0.1000	200.0000	cm

DBH	N	Y	numeric(5,1)	range	1.0000	25.0000	cm
VIGOR	N	N	char(1)	enum	1.0000	9.0000	
STATUS	N	N	char(1)	enum			
PTYPE	N	N	char(1)	enum			
COMMENTS	N	Y	varchar(254)	freetext			
PERSONNEL	N	N	varchar(30)	freetext			
SAMPLEDATE	N	N	datetime	range	8/22/1998	9/16/2009	YYYY-MM-DD
TREEID	Y	N	varchar(13)	freetext	12:00:00 AM	12:00:00 AM	

20. Plot Photo Comments

Attribute List:

DATACODE	N	N	char(5)	enum			
ENTITY	N	N	numeric(2,0)	range	20.0000	20.0000	number
PRE_POST	N	N	char(4)	enum			
PHOTO_YEAR	Y	Y	numeric(4,0)	range	1996.0000	2006.0000	YYYY
DISTRICT	N	N	char(4)	place			
BLOCK	T	N	char(1)	enum	1.0000	8.0000	
TRT	N	N	char(1)	enum	1.0000	6.0000	
PLOT	T	N	char(6)	place			
TRANS	T	N	char(1)	enum			
MISSING	N	Y	char(1)	enum			
PHOTO_NR	T	Y	numeric(2,0)	range	1.0000	4.0000	number
PHOTONAME	Y	Y	varchar(20)	freetext			
PCOMMENTS	N	Y	varchar(160)	freetext			

21. Tree Mortality (O-D)

Attribute List:

DATACODE	N	N	char(5)	enum			
ENTITY	N	N	numeric(2,0)	range	21.0000	21.0000	number
YEAR	Y	N	numeric(4,0)	range	1999.0000	2016.0000	YYYY
DISTRICT	N	N	char(4)	place			
BLOCK	N	N	char(1)	enum			
TRT	N	N	char(1)	enum			
PLOT	N	N	char(6)	place			
QTR	N	N	numeric(1,0)	range	1.0000	4.0000	number
TAGNO	N	Y	numeric(5,0)	range	1.0000	9999.0000	number

TREESPP	N	N	char(6)	taxa				
DBH	N	N	numeric(5,1)	range	0.0000	143.2000	cm	
CANOPY	N	N	char(1)	enum				
RCROWN	N	Y	numeric(3,0)	range	0.0000	100.0000	%	
RTREE	N	Y	numeric(3,0)	range	0.0000	100.0000	%	
LEAN	N	Y	numeric(3,0)	range	0.0000	285.0000	deg angle	
POSITION	N	Y	char(1)	enum				
DIRECT	N	Y	numeric(3,0)	range	1.0000	360.0000	deg angle	
COND1	N	Y	char(2)	enum				
COND2	N	Y	char(2)	enum				
COND3	N	Y	char(2)	enum				
COND4	N	Y	char(2)	enum				
COND5	N	Y	char(2)	enum				
COND6	N	Y	char(2)	enum				
PTYPE	N	N	char(1)	enum				
COMMENTS	N	Y	varchar(254)	freetext				
PERSONNEL	N	N	varchar(30)	freetext				
SAMPLEDATE	N	Y	datetime	range	9/10/1998/31/2016 12:00:00 AM	12:00:00 AM	YYYY-MM-DD	
TREEID	Y	N	varchar(13)	freetext				

24. Natural Regeneration, 2003-2016 (U-F2)

Attribute List:

DATA CODE	N	N	char(5)	enum				
ENTITY	N	N	numeric(2,0)	range	24.0000	24.0000	number	
YEAR	Y	N	numeric(4,0)	range	2003.0000	2016.0000	YYYY	
DISTRICT	N	N	char(4)	place				
BLOCK	N	N	char(1)	enum	1.0000	8.0000		
TRT	N	N	char(1)	enum	1.0000	6.0000		
PLOT	N	N	char(6)	place				
TRANS	N	Y	char(1)	enum				
TREESPP	N	Y	char(6)	taxa				
HTOT12	N	Y	numeric(3,0)	range	0.0000	57.0000	number	
HTOT25	N	Y	numeric(3,0)	range	0.0000	75.0000	number	
HTOT510	N	Y	numeric(3,0)	range	0.0000	23.0000	number	
HTOT1015	N	Y	numeric(3,0)	range	0.0000	17.0000	number	

DTOT01	N	Y	numeric(3,0)	range	0.0000	10.0000	number
DTOT12	N	Y	numeric(3,0)	range	0.0000	15.0000	number
DTOT23	N	Y	numeric(3,0)	range	0.0000	20.0000	number
DTOT34	N	Y	numeric(3,0)	range	0.0000	10.0000	number
DTOT45	N	Y	numeric(3,0)	range	0.0000	13.0000	number
PTYPE	N	Y	char(1)	enum			
PERSONNEL	N	N	varchar(30)	freetext			
SAMPLEDATE	N	N	datetime	range	6/28/2003	8/31/2016	YYYY-MM-DD
					12:00:00	12:00:00	
					AM	AM	
REGENID	Y	N	varchar(13)	freetext			

25. Height and Leader Growth of Tagged Natural Regeneration (U-F3)

Attribute List:

DATACODE	N	N	char(5)	enum			
ENTITY	N	N	numeric(2,0)	range	25.0000	25.0000	number
YEAR	N	N	numeric(4,0)	range	2003.0000	2003.0000	YYYY
DISTRICT	N	N	char(4)	place			
BLOCK	N	N	char(1)	enum	1.0000	8.0000	
TRT	N	N	char(1)	enum	1.0000	6.0000	
PLOT	N	N	char(6)	place			
TRANS	N	Y	char(1)	enum			
TAGNO	N	Y	numeric(5,0)	range	1.0000	4500.0000	number
TREESPP	N	Y	char(6)	taxa			
DBH	N	Y	numeric(5,1)	range	0.3000	25.0000	cm
HT2002	N	N	numeric(4,0)	range	0.0000	442.0000	cm
HTBASE	N	Y	numeric(4,0)	range	0.0000	286.0000	cm
CRNWDTH1	N	Y	numeric(3,0)	range	2.0000	222.0000	cm
CRNWDTH2	N	Y	numeric(3,0)	range	2.0000	237.0000	cm
GRWTH2002	N	Y	numeric(4,1)	range	0.0000	49.0000	cm
GRWTH2001	N	Y	numeric(4,1)	range	0.0000	44.4000	cm
GRWTH2000	N	Y	numeric(4,1)	range	0.0000	30.0000	cm
GRWTH1999	N	Y	numeric(4,1)	range	0.0000	27.8000	cm
GRWTH1998	N	Y	numeric(4,1)	range	0.0000	25.8000	cm
GRWTH1997	N	Y	numeric(4,1)	range	0.0000	21.3000	cm
CROWN1	N	Y	char(1)	enum			
CROWN2	N	Y	char(1)	enum			

STEM1	N	Y	char(1)	enum		
STEM2	N	Y	char(1)	enum		
DIST1	N	Y	char(1)	enum		
DIST2	N	Y	char(1)	enum		
PTYPE	N	N	char(1)	enum		
COMMENTS	N	Y	varchar(254)	freetext		
PERSONNEL	N	N	varchar(30)	freetext		
SAMPLEDATE	N	Y	datetime	range	6/28/2003 10/7/2003 12:00:00 12:00:00 AM AM	YYYY-MM-DD

Attributes Definitions:

BEARING

Compass bearing of the transect from 4m to 10m

BLOCK

Sample block number

BLSPP

Species code according to Garrison et al., 1976

BOLE1

Bole Conditon 1

BOLE2

Bole Conditon 2

BOLE3

Bole Conditon 3

CANOPY

Canopy Class

CEND1

The ending meter mark intersected by the first vertical projection of a cover type's surface

CEND2

The ending meter mark intersected by the 2nd projection of a cover type's surface

CEND3

The ending meter mark intersected by the 3rd projection of a cover type's surface

CEND4

The ending meter mark intersected by the 4th projection of a cover type's surface

CEND5

The ending meter mark intersected by the 5th projection of a cover type's surface

COMMENTS

Comments

COND1

Code 1 for physical condition of tree

COND2

Code 2 for physical condition of tree

COND3

Code 3 for physical condition of tree

COND4

Code 4 for physical condition of tree

COND5

Code 5 for physical condition of tree

COND6

Code 6 for physical condition of tree

COVER

Cover; proportion of ground surface

COVER1

Percent cover of lichens or bryophytes in microplot 1

COVER2

Percent cover of lichens or bryophytes in microplot 2

COVER3

Percent cover of lichens or bryophytes in microplot 3

COVER4

Percent cover of lichens or bryophytes in microplot 4

COVER5

Percent cover of lichens or bryophytes in microplot 5

COVER6

Percent cover of lichens or bryophytes in microplot 6

COVTYPE

Type of Disturbance Cover

CRNWIDTH1

Crown width 1st

CRNWIDTH2

Crown width 2nd

CROWN1

Crown Condition 1

CROWN2

Crown Condition 2

CROWN3

Crown Condition 3

CSTART1

The beginning meter mark intersected by the first vertical projection of a cover type's surface

CSTART2

The beginning meter mark intersected by the 2nd projection of a cover type's surface

CSTART3

The beginning meter mark intersected by the 3rd projection of a cover type's surface

CSTART4

The beginning meter mark intersected by the 4th projection of a cover type's surface

CSTART5

The beginning meter mark intersected by the 5th projection of a cover type's surface

DATACODE

FSBD Database Code

DBH

Diameter at breast height

DEPTH

Slash Depth

DIAMETER

Log diameter perpendicular to the long axis of the log where it intersects the transect line

DIRECT

Direction (azimuth) of uprooting or stem breakage

DIST1

Disturbance Code 1

DIST2

Disturbance Code 2

DISTRICT

National Forest System Code indicating location of the study block by National Forest and Ranger District

DISTURB1

Disturbance 1

DISTURB2

Disturbance 2

DTOT01

Number of saplings 0 - 1cm DBH

DTOT12

Number of saplings >1 - 2cm DBH

DTOT23

Number of saplings >2 - 3cm DBH

DTOT34

Number of saplings >3 - 4cm DBH

DTOT45

Number of saplings >4 - 5cm DBH

END1

The ending meter mark intersected by the first vertical projection of a cover

END2

The ending meter mark intersected by the 2nd projection of a species' canopy

END3

The ending meter mark intersected by the 3rd projection of a species' canopy

END4

The ending meter mark intersected by the 4th projection of a species' canopy

END5

The ending meter mark intersected by the 5th projection of a species' canopy

ENTITY

Entity Number

GRWTH1997

1997 height growth

GRWTH1998

1998 height growth

GRWTH1999

1999 height growth

GRWTH2000

2000 height growth

GRWTH2001

2001 height growth

GRWTH2002

2002 height growth

HCOVER1

Projected canopy cover for total herbs or cover of individual Herb species in microplot 1

HCOVER2

Projected canopy cover for total herbs or cover of individual Herb species in microplot 2

HCOVER3

Projected canopy cover for total herbs or cover of individual Herb species in microplot 3

HCOVER4

Projected canopy cover for total herbs or cover of individual Herb species in microplot 4

HCOVER5

Projected canopy cover for total herbs or cover of individual Herb species in microplot 5

HCOVER6

Projected canopy cover for total herbs or cover of individual Herb species in microplot 6

HEIGHT

Seedling Height

HEIGHT1

Maximum Height of Herb Species in microplot 1

HEIGHT2

Maximum Height of Herb Species in microplot 2

HEIGHT3

Maximum Height of Herb Species in microplot 3

HEIGHT4

Maximum Height of Herb Species in microplot 4

HEIGHT5

Maximum Height of Herb Species in microplot 5

HEIGHT6

Maximum Height of Herb Species in microplot 6

HT1

Max Height of species in Interval 1 (0-1 meters)

HT2

Max Height of species in Interval 2 (1-2 meters)

HT2002

Height in 2002

HT3

Max Height of species in Interval 3 (2-3 meters)

HT4

Max Height of species in Interval 4 (3-4 meters)

HT5

Max Height of species in Interval 5 (4-5 meters)

HT6

Max Height of species in Interval 6 (5-6 meters)

HTBASE

Height to lowest live branch

HTLOWBR

Height to the lowest live branch

HTOT1015

Number of saplings >1.0 - 1.5 m tall

HTOT12

Number of saplings 0.1 - 0.2 m tall

HTOT25

Number of saplings >0.2 - 0.5 m tall

HTOT510

Number of saplings >0.5 - 1.0 m tall

LC

The number of lines of a single record within a species, growth form class or cover type

LDECAY

A ranking which expresses the degree of decay of a log

LEADGRWTH1

Current year's leader growth (in centimeters). Applies to 1998-2001 sampling.

LEADGRWTH2

Previous year's leader growth (in centimeters). Applies to 2003, 2009, and any subsequent year's sampling.

LEAN

The lean angle of a snag or dead tree in degrees from vertical

LENGTH

Length class of the log or piece of wood

LIFEFORM

A two-letter character indicating a general class of plants

LOCATION

Location of Canopy Measurement

METMARK

Meter Mark

MICROPLOT

The number of the Daubenmire plot (0.2 x 0.5 m) used to sample understory attributes

MISSING

Missing photo indicator field

MMARK

Distance along Transect

NECOVER

Percent Overstory Cover in NE Quadrant

NRTRSEED1

Total Number of Tree Seedlings in Microplot 1

NRTRSEED2

Total Number of Tree Seedlings in Microplot 2

NRTRSEED3

Total Number of Tree Seedlings in Microplot 3

NRTRSEED4

Total Number of Tree Seedlings in Microplot 4

NRTRSEED5

Total Number of Tree Seedlings in Microplot 5

NRTRSEED6

Total Number of Tree Seedlings in Microplot 6

NWCOVER

Percent Overstory Cover in NW Quadrant

OCCURRENCE

Occurrence of a species within a plot and transect. If greater than 1, then the specific species identification is unknown, but known to be different than other species on that plot and transect

OLDTAG

Old Tag Number

ORIGIN

Origin of snag

PERSONNEL

Name(s) of crew member(s) who sampled plots

PHOTO_NR

Sequential photo number within transect

PHOTO_YEAR

Year in which photo was taken

PHOTONAME

Name of photo

PIECE_NO

Unique CWD piece number by block, plot, and transect used as the primary key

PLANTED

Indicates if tree was planted

PLOT

Sample plot code designating block, plot, and a grid system location (e.g. 1A7: 1 = TRT, A = Row, 7 = Column)

POSITION

Code for tree position

PRE_POST

Indicates pre or post picture

PRESENT1

Presence or Absence of Species in microplot 1

PRESENT2

Presence or Absence of Species in microplot 2

PRESENT3

Presence or Absence of Species in microplot 3

PRESENT4

Presence or Absence of Species in microplot 4

PRESENT5

Presence or Absence of Species in microplot 5

PRESENT6

Presence or Absence of Species in microplot 6

PTYPE

Code indicating uncut (0) or cut (1) Plot

QTR

Plot Quarter

RCROWN

Percent crown remaining

REBAR10

Actual distance in meters of the 10m rebar from the plot center

REBAR4

Actual distance in meters of the 4m rebar from the plot center

REBARINT

Actual distance in meters of intermediate rebar (those between 4m and 10m) from the plot center

REBARINT2

Actual distance in meters of intermediate rebar2 (those between 4m and 10m) from the plot center

REBARINT3

Actual distance in meters of intermediate rebar3 (those between 4m and 10m) from the plot center

REBARINT4

Actual distance in meters of intermediate rebar4 (those between 4m and 10m) from the plot center

REGENID

Unique identifier for tree regeneration for database purposes; composed of 'P', block, plot, trans, treespp (otherwise blank for treespp)

RTREE

Percent tree remaining

SAMPLEDATE

Date on which plot was sampled

SDBH

The snag diameter at breast height (for exceptions, see field manual)

SDECAY

A ranking which expresses the degree of decay of a snag

SECOVER

Percent Overstory Cover in SE Quadrant

SHTCLASS

Snag height class

SNAGID

Unique snag identifier assigned to each individual for database purposes; typically composed of 'P', block, plot, qtr and, if a tag is present, tagno, otherwise a unique number or character

SNAGSTATUS

Snag status

SPECIES

Species code

START1

The beginning meter mark intersected by the first vertical projection of a species' canopy

START2

The beginning meter mark intersected by the 2nd projection of a species' canopy

START3

The beginning meter mark intersected by the 3rd projection of a species' canopy

START4

The beginning meter mark intersected by the 4th projection of a species' canopy

START5

The beginning meter mark intersected by the 5th projection of a species' canopy

STATUS

Status of Tree or Seedling

STEM1

Stem Condition 1

STEM2

Stem Condition 2

STOPHT

the top (or total) height of a snag (in meters)

SUBS11

Substrate 1

SUBS12

Substrate 2

SUBS13

Substrate 3

SUBSTRATE

Ground surface characteristic

SWCOVER

Percent Overstory Cover in SW Quadrant

TAG

Snag number or unique snag ID, if tag is missing

TAGNO

Tag Number

TOPHT

Total Tree Height

TOTCOVER1

Total Cover of Herbs in Microplot 1

TOTCOVER2

Total Cover of Herbs in Microplot 2

TOTCOVER3

Total Cover of Herbs in Microplot 3

TOTCOVER4

Total Cover of Herbs in Microplot 4

TOTCOVER5

Total Cover of Herbs in Microplot 5

TOTCOVER6

Total Cover of Herbs in Microplot 6

TOTSEED1

The total number of understory trees in height class 1

TOTSEED2

The total number of understory trees in height class 2

TOTSEED3

The total number of understory trees in height class 3

TOTSEED4

The total number of understory trees in height class 4

TOTSEED5

The total number of understory trees in height class 5

TOTSEED6

The total number of understory trees in height class 6

TRANS

Letter Code designating Transect (A,B,C,D)

TREEID

Unique tree id assigned to each individual for database purposed; typically composed of 'P', block, plot, qtr, tagno

TREESEED1

Number of tree seedlings in microplot 1

TREESEED2

Number of tree seedlings in microplot 2

TREESEED3

Number of tree seedlings in microplot 3

TREESEED4

Number of tree seedlings in microplot 4

TREESEED5

Number of tree seedlings in microplot 5

TREESEED6

Number of tree seedlings in microplot 6

TREESPP

Tree species code according to Garrison et al., 1976

TREEVIGOR

Tree Vigor Code

TRLOC_A

Location in treatment unit of Transect A

TRLOC_B

Location in treatment unit of Transect B

TRLOC_C

Location in treatment unit of Transect C

TRLOC_D

Location in treatment unit of Transect D

TRT

Treatment unit

UPDATE_YR

Most recent year in which a REBAR4, REBAR10, OR REBARINT distance was changed, or in which there is a grid point/center post comment

US_SPP

Understory species code according to Garrison et al., 1976

VIGOR

Vigor (1-3,6,9)

YEAR

Year in which plot was sampled

Enumerated Domains:

Enumerated Domain for Attribute: BLOCK

- 8 Capital Forest, Capital Forest, Thurston Co., WA
- 1 Watson Falls, Umpqua NF, Diamond Lake Distr., Douglas Co., OR
- 7 Paradise Hills, Gifford Pinchot NF, Wind River Distr., Skamania Co., WA
- 6 Little White Salmon, Gifford Pinchot NF, Mt. Adams Distr., NF, Skamania Co.,
- 5 Butte, Gifford Pinchot NF, Randle Distr., Skamania Co., WA

- 3 Layng Creek, Umpqua NF, Cottage Grove Distr., Lane Co., OR
- 2 Little River, Umpqua NF, N. Umpqua Distr., Douglas Co., OR
- 4 Dog Prairie, Umpqua NF, Diamond Lake Distr., Douglas Co., OR

Enumerated Domain for Attribute: PTYPE

- 0 Uncut Plot
- 1 Cut Plot

Enumerated Domain for Attribute: TRLOC_A

- C clearcut area (TMT 2, 4, or 6)
- A aggregated retention patch (TMT 4 or 6)
- U uncut area (TMT 1 or 2)
- D dispersed retention (TMT 3 or 5)
- E edge (spanning two conditions) (TMT 2, 4 or 6)

Enumerated Domain for Attribute: TRLOC_B

- C clearcut area (TMT 2, 4, or 6)
- A aggregated retention patch (TMT 4 or 6)
- U uncut area (TMT 1 or 2)
- D dispersed retention (TMT 3 or 5)
- E edge (spanning two conditions) (TMT 2, 4 or 6)

Enumerated Domain for Attribute: TRLOC_C

- C clearcut area (TMT 2, 4, or 6)
- A aggregated retention patch (TMT 4 or 6)
- U uncut area (TMT 1 or 2)
- D dispersed retention (TMT 3 or 5)
- E edge (spanning two conditions) (TMT 2, 4 or 6)

Enumerated Domain for Attribute: TRLOC_D

- C clearcut area (TMT 2, 4, or 6)
- A aggregated retention patch (TMT 4 or 6)
- U uncut area (TMT 1 or 2)
- D dispersed retention (TMT 3 or 5)
- E edge (spanning two conditions) (TMT 2, 4 or 6)

Enumerated Domain for Attribute: TRT

- 1 100% retention (uncut)
- 5 15% retention (dispersed)
- 6 15% retention (aggregated)
- 4 40% retention (aggregated)

- 2 75% retention with gaps
- 3 40% retention (dispersed)

Enumerated Domain for Attribute: DATACODE
 TP108 FSDB database code for Terrestrial Productivity, TP108

- Enumerated Domain for Attribute: BLOCK
- 8 Capital Forest, Capital Forest, Thurston Co., WA
 - 1 Watson Falls, Umpqua NF, Diamond Lake Distr., Douglas Co., OR
 - 7 Paradise Hills, Gifford Pinchot NF, Wind River Distr., Skamania Co., WA
 - 6 Little White Salmon, Gifford Pinchot NF, Mt. Adams Distr., NF, Skamania Co.,
 - 5 Butte, Gifford Pinchot NF, Randle Distr., Skamania Co., WA
 - 3 Layng Creek, Umpqua NF, Cottage Grove Distr., Lane Co., OR
 - 2 Little River, Umpqua NF, N. Umpqua Distr., Douglas Co., OR
 - 4 Dog Prairie, Umpqua NF, Diamond Lake Distr., Douglas Co., OR

- Enumerated Domain for Attribute: TRANS
- C Transect C
 - D Transect D
 - B Transect B
 - A Transect A
 - 0 plot center (grid point)

Enumerated Domain for Attribute: DATACODE
 TP108 FSDB database code for Terrestrial Productivity, TP108

- Enumerated Domain for Attribute: BLOCK
- 8 Capital Forest, Capital Forest, Thurston Co., WA
 - 1 Watson Falls, Umpqua NF, Diamond Lake Distr., Douglas Co., OR
 - 7 Paradise Hills, Gifford Pinchot NF, Wind River Distr., Skamania Co., WA
 - 6 Little White Salmon, Gifford Pinchot NF, Mt. Adams Distr., NF, Skamania Co.,
 - 5 Butte, Gifford Pinchot NF, Randle Distr., Skamania Co., WA
 - 3 Layng Creek, Umpqua NF, Cottage Grove Distr., Lane Co., OR
 - 2 Little River, Umpqua NF, N. Umpqua Distr., Douglas Co., OR
 - 4 Dog Prairie, Umpqua NF, Diamond Lake Distr., Douglas Co., OR

- Enumerated Domain for Attribute: LIFEFORM
- T Trees
 - TS Tall Shrubs
 - L Lichens
 - CT Conifer Trees

HT	Hardwood Trees
H	Herbs
B	Bryophytes
N	Not measured

Enumerated Domain for Attribute: PRESENT1

1	present
0	absent

Enumerated Domain for Attribute: PRESENT2

1	present
0	absent

Enumerated Domain for Attribute: PRESENT3

1	present
0	absent

Enumerated Domain for Attribute: PRESENT4

1	present
0	absent

Enumerated Domain for Attribute: PRESENT5

1	present
0	absent

Enumerated Domain for Attribute: PRESENT6

1	present
0	absent

Enumerated Domain for Attribute: PTYPE

0	Uncut Plot
1	Cut Plot

Enumerated Domain for Attribute: SUBS11

M	Mineral Soil
L	Litter
F	Fresh log or snag (class I or II)
O	Other
D	Decayed log or snag (class III - V)
T	Tree Base/Snag Base
S	Shrub (base/stem)
R	Rock /Stone
P	Stump

Enumerated Domain for Attribute: SUBS12

- M Mineral Soil
- L Litter
- F Fresh log or snag (class I or II)
- O Other
- D Decayed log or snag (class III - V)
- T Tree Base/Snag Base
- S Shrub (base/stem)
- R Rock /Stone
- P Stump

Enumerated Domain for Attribute: SUBS13

- M Mineral Soil
- L Litter
- F Fresh log or snag (class I or II)
- O Other
- D Decayed log or snag (class III - V)
- T Tree Base/Snag Base
- S Shrub (base/stem)
- R Rock /Stone
- P Stump

Enumerated Domain for Attribute: SUBS21

- M Mineral Soil
- L Litter
- F Fresh log or snag (class I or II)
- O Other
- D Decayed log or snag (class III - V)
- T Tree Base/Snag Base
- S Shrub (base/stem)
- R Rock /Stone
- P Stump

Enumerated Domain for Attribute: SUBS22

- M Mineral Soil
- L Litter
- F Fresh log or snag (class I or II)

O	Other
D	Decayed log or snag (class III - V)
T	Tree Base/Snag Base
S	Shrub (base/stem)
R	Rock /Stone
P	Stump

Enumerated Domain for Attribute: SUBS23

M	Mineral Soil
L	Litter
F	Fresh log or snag (class I or II)
O	Other
D	Decayed log or snag (class III - V)
T	Tree Base/Snag Base
S	Shrub (base/stem)
R	Rock /Stone
P	Stump

Enumerated Domain for Attribute: SUBS31

M	Mineral Soil
L	Litter
F	Fresh log or snag (class I or II)
O	Other
D	Decayed log or snag (class III - V)
T	Tree Base/Snag Base
S	Shrub (base/stem)
R	Rock /Stone
P	Stump

Enumerated Domain for Attribute: SUBS32

M	Mineral Soil
L	Litter
F	Fresh log or snag (class I or II)
O	Other
D	Decayed log or snag (class III - V)
T	Tree Base/Snag Base
S	Shrub (base/stem)

R Rock /Stone

P Stump

Enumerated Domain for Attribute: SUBS33

M Mineral Soil

L Litter

F Fresh log or snag (class I or II)

O Other

D Decayed log or snag (class III - V)

T Tree Base/Snag Base

S Shrub (base/stem)

R Rock /Stone

P Stump

Enumerated Domain for Attribute: SUBS41

M Mineral Soil

L Litter

F Fresh log or snag (class I or II)

O Other

D Decayed log or snag (class III - V)

T Tree Base/Snag Base

S Shrub (base/stem)

R Rock /Stone

P Stump

Enumerated Domain for Attribute: SUBS42

M Mineral Soil

L Litter

F Fresh log or snag (class I or II)

O Other

D Decayed log or snag (class III - V)

T Tree Base/Snag Base

S Shrub (base/stem)

R Rock /Stone

P Stump

Enumerated Domain for Attribute: SUBS43

M Mineral Soil

L	Litter
F	Fresh log or snag (class I or II)
O	Other
D	Decayed log or snag (class III - V)
T	Tree Base/Snag Base
S	Shrub (base/stem)
R	Rock /Stone
P	Stump

Enumerated Domain for Attribute: SUBS51

M	Mineral Soil
L	Litter
F	Fresh log or snag (class I or II)
O	Other
D	Decayed log or snag (class III - V)
T	Tree Base/Snag Base
S	Shrub (base/stem)
R	Rock /Stone
P	Stump

Enumerated Domain for Attribute: SUBS52

M	Mineral Soil
L	Litter
F	Fresh log or snag (class I or II)
O	Other
D	Decayed log or snag (class III - V)
T	Tree Base/Snag Base
S	Shrub (base/stem)
R	Rock /Stone
P	Stump

Enumerated Domain for Attribute: SUBS53

M	Mineral Soil
L	Litter
F	Fresh log or snag (class I or II)
O	Other
D	Decayed log or snag (class III - V)

T	Tree Base/Snag Base
S	Shrub (base/stem)
R	Rock /Stone
P	Stump

Enumerated Domain for Attribute: SUBS61

M	Mineral Soil
L	Litter
F	Fresh log or snag (class I or II)
O	Other
D	Decayed log or snag (class III - V)
T	Tree Base/Snag Base
S	Shrub (base/stem)
R	Rock /Stone
P	Stump

Enumerated Domain for Attribute: SUBS62

M	Mineral Soil
L	Litter
F	Fresh log or snag (class I or II)
O	Other
D	Decayed log or snag (class III - V)
T	Tree Base/Snag Base
S	Shrub (base/stem)
R	Rock /Stone
P	Stump

Enumerated Domain for Attribute: SUBS63

M	Mineral Soil
L	Litter
F	Fresh log or snag (class I or II)
O	Other
D	Decayed log or snag (class III - V)
T	Tree Base/Snag Base
S	Shrub (base/stem)
R	Rock /Stone
P	Stump

Enumerated Domain for Attribute: TRANS

C	Transect C
D	Transect D
B	Transect B
A	Transect A
0	plot center (grid point)

Enumerated Domain for Attribute: TRT

1	100% retention (uncut)
5	15% retention (dispersed)
6	15% retention (aggregated)
4	40% retention (aggregated)
2	75% retention with gaps
3	40% retention (dispersed)

Enumerated Domain for Attribute: DATACODE

TP108	FSDB database code for Terrestrial Productivity, TP108
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Enumerated Domain for Attribute: BLOCK

8	Capital Forest, Capital Forest, Thurston Co., WA
1	Watson Falls, Umpqua NF, Diamond Lake Distr., Douglas Co., OR
7	Paradise Hills, Gifford Pinchot NF, Wind River Distr., Skamania Co., WA
6	Little White Salmon, Gifford Pinchot NF, Mt. Adams Distr., NF, Skamania Co.,
5	Butte, Gifford Pinchot NF, Randle Distr., Skamania Co., WA
3	Layng Creek, Umpqua NF, Cottage Grove Distr., Lane Co., OR
2	Little River, Umpqua NF, N. Umpqua Distr., Douglas Co., OR
4	Dog Prairie, Umpqua NF, Diamond Lake Distr., Douglas Co., OR

Enumerated Domain for Attribute: LIFEFORM

T	Trees
TS	Tall Shrubs
L	Lichens
CT	Conifer Trees
HT	Hardwood Trees
H	Herbs
B	Bryophytes
N	Not measured

Enumerated Domain for Attribute: PTYPE

0	Uncut Plot
---	------------

1 Cut Plot

Enumerated Domain for Attribute: TRANS

C Transect C
D Transect D
B Transect B
A Transect A
0 plot center (grid point)

Enumerated Domain for Attribute: TRT

1 100% retention (uncut)
5 15% retention (dispersed)
6 15% retention (aggregated)
4 40% retention (aggregated)
2 75% retention with gaps
3 40% retention (dispersed)

Enumerated Domain for Attribute: DATACODE

TP108 FSDB database code for Terrestrial Productivity, TP108

Enumerated Domain for Attribute: BLOCK

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2 Little River, Umpqua NF, N. Umpqua Distr., Douglas Co., OR
4 Dog Prairie, Umpqua NF, Diamond Lake Distr., Douglas Co., OR

Enumerated Domain for Attribute: LIFEFORM

T Trees
TS Tall Shrubs
L Lichens
CT Conifer Trees
HT Hardwood Trees
H Herbs
B Bryophytes
N Not measured

Enumerated Domain for Attribute: PRESENT1

1	present
0	absent

Enumerated Domain for Attribute: PRESENT2

1	present
0	absent

Enumerated Domain for Attribute: PRESENT3

1	present
0	absent

Enumerated Domain for Attribute: PRESENT4

1	present
0	absent

Enumerated Domain for Attribute: PRESENT5

1	present
0	absent

Enumerated Domain for Attribute: PRESENT6

1	present
0	absent

Enumerated Domain for Attribute: PTYPE

0	Uncut Plot
1	Cut Plot

Enumerated Domain for Attribute: TRANS

C	Transect C
D	Transect D
B	Transect B
A	Transect A
0	plot center (grid point)

Enumerated Domain for Attribute: TRT

1	100% retention (uncut)
5	15% retention (dispersed)
6	15% retention (aggregated)
4	40% retention (aggregated)
2	75% retention with gaps
3	40% retention (dispersed)

Enumerated Domain for Attribute: DATACODE

TP108 FSDB database code for Terrestrial Productivity, TP108

Enumerated Domain for Attribute: BLOCK

8	Capital Forest, Capital Forest, Thurston Co., WA
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5	Butte, Gifford Pinchot NF, Randle Distr., Skamania Co., WA
3	Layng Creek, Umpqua NF, Cottage Grove Distr., Lane Co., OR
2	Little River, Umpqua NF, N. Umpqua Distr., Douglas Co., OR
4	Dog Prairie, Umpqua NF, Diamond Lake Distr., Douglas Co., OR

Enumerated Domain for Attribute: LIFEFORM

T	Trees
TS	Tall Shrubs
L	Lichens
CT	Conifer Trees
HT	Hardwood Trees
H	Herbs
B	Bryophytes
N	Not measured

Enumerated Domain for Attribute: PTYPE

0	Uncut Plot
1	Cut Plot

Enumerated Domain for Attribute: TRANS

C	Transect C
D	Transect D
B	Transect B
A	Transect A
0	plot center (grid point)

Enumerated Domain for Attribute: TRT

1	100% retention (uncut)
5	15% retention (dispersed)
6	15% retention (aggregated)
4	40% retention (aggregated)
2	75% retention with gaps

3 40% retention (dispersed)

Enumerated Domain for Attribute: DATACODE

TP108 FSDB database code for Terrestrial Productivity, TP108

Enumerated Domain for Attribute: BLOCK

8 Capital Forest, Capital Forest, Thurston Co., WA
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3 Layng Creek, Umpqua NF, Cottage Grove Distr., Lane Co., OR
2 Little River, Umpqua NF, N. Umpqua Distr., Douglas Co., OR
4 Dog Prairie, Umpqua NF, Diamond Lake Distr., Douglas Co., OR

Enumerated Domain for Attribute: LIFEFORM

T Trees
TS Tall Shrubs
L Lichens
CT Conifer Trees
HT Hardwood Trees
H Herbs
B Bryophytes
N Not measured

Enumerated Domain for Attribute: PTYPE

0 Uncut Plot
1 Cut Plot

Enumerated Domain for Attribute: TRANS

C Transect C
D Transect D
B Transect B
A Transect A
0 plot center (grid point)

Enumerated Domain for Attribute: TRT

1 100% retention (uncut)
5 15% retention (dispersed)
6 15% retention (aggregated)
4 40% retention (aggregated)

- 2 75% retention with gaps
- 3 40% retention (dispersed)

Enumerated Domain for Attribute: DATACODE
 TP108 FSDB database code for Terrestrial Productivity, TP108

- Enumerated Domain for Attribute: BLOCK
- 8 Capital Forest, Capital Forest, Thurston Co., WA
 - 1 Watson Falls, Umpqua NF, Diamond Lake Distr., Douglas Co., OR
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 - 5 Butte, Gifford Pinchot NF, Randle Distr., Skamania Co., WA
 - 3 Layng Creek, Umpqua NF, Cottage Grove Distr., Lane Co., OR
 - 2 Little River, Umpqua NF, N. Umpqua Distr., Douglas Co., OR
 - 4 Dog Prairie, Umpqua NF, Diamond Lake Distr., Douglas Co., OR

- Enumerated Domain for Attribute: PTYPE
- 0 Uncut Plot
 - 1 Cut Plot

- Enumerated Domain for Attribute: SUBSTRATE
- MINSOIL Mineral Soil
 - LTREEBR Live Tree Base, Root, Branches
 - STONE Stone
 - FLITTER Fine Litter Substrate
 - STUMP Stump, Stump Root
 - CLITTER Coarse Litter Substrate
 - SCAT Animal Scat
 - MTRAP Metal Trap
 - WINDTH Windthrown Tree
 - SHSTEM Shrub Stem,Shrub Base,Shrub Root
 - APRINT Animal Print
 - BONE Animal Bone
 - PITFALL Pit Fall Trap
 - MUD Mud
 - FTPETH Footpath
 - ABURR Animal Burrow
 - WATER Standing Water

SKDRD	Skid Road
SNAG	Snag
TUMOUND	Tip-up mound
DECALOG	Decayed Log Chunks, CWDEB, Tree Bark
SUSPLOG	Suspended Log
TREEBOL	Live Tree Bole
ASH	Ashes
CHARCOL	Charcoal
STREAM	Stream bed/channel with water
ROOTWAD	Rootwad, holds mineral soil
OTHER	Other substrate; not listed or not defined

Enumerated Domain for Attribute: TRANS

C	Transect C
D	Transect D
B	Transect B
A	Transect A
0	plot center (grid point)

Enumerated Domain for Attribute: TRT

1	100% retention (uncut)
5	15% retention (dispersed)
6	15% retention (aggregated)
4	40% retention (aggregated)
2	75% retention with gaps
3	40% retention (dispersed)

Enumerated Domain for Attribute: DATACODE

TP108	FSDB database code for Terrestrial Productivity, TP108
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Enumerated Domain for Attribute: BLOCK

8	Capital Forest, Capital Forest, Thurston Co., WA
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3	Layng Creek, Umpqua NF, Cottage Grove Distr., Lane Co., OR
2	Little River, Umpqua NF, N. Umpqua Distr., Douglas Co., OR

4 Dog Prairie, Umpqua NF, Diamond Lake Distr., Douglas Co., OR

Enumerated Domain for Attribute: LIFEFORM

T	Trees
TS	Tall Shrubs
L	Lichens
CT	Conifer Trees
HT	Hardwood Trees
H	Herbs
B	Bryophytes
N	Not measured

Enumerated Domain for Attribute: PTYPE

0	Uncut Plot
1	Cut Plot

Enumerated Domain for Attribute: TRANS

C	Transect C
D	Transect D
B	Transect B
A	Transect A
0	plot center (grid point)

Enumerated Domain for Attribute: TRT

1	100% retention (uncut)
5	15% retention (dispersed)
6	15% retention (aggregated)
4	40% retention (aggregated)
2	75% retention with gaps
3	40% retention (dispersed)

Enumerated Domain for Attribute: DATACODE

TP108	FSDB database code for Terrestrial Productivity, TP108
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Enumerated Domain for Attribute: BLOCK

8	Capital Forest, Capital Forest, Thurston Co., WA
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3	Layng Creek, Umpqua NF, Cottage Grove Distr., Lane Co., OR

- 2 Little River, Umpqua NF, N. Umpqua Distr., Douglas Co., OR
- 4 Dog Prairie, Umpqua NF, Diamond Lake Distr., Douglas Co., OR

Enumerated Domain for Attribute: LIFEFORM

- T Trees
- TS Tall Shrubs
- L Lichens
- CT Conifer Trees
- HT Hardwood Trees
- H Herbs
- B Bryophytes
- N Not measured

Enumerated Domain for Attribute: PTYPE

- 0 Uncut Plot
- 1 Cut Plot

Enumerated Domain for Attribute: TRANS

- C Transect C
- D Transect D
- B Transect B
- A Transect A
- 0 plot center (grid point)

Enumerated Domain for Attribute: TRT

- 1 100% retention (uncut)
- 5 15% retention (dispersed)
- 6 15% retention (aggregated)
- 4 40% retention (aggregated)
- 2 75% retention with gaps
- 3 40% retention (dispersed)

Enumerated Domain for Attribute: DATACODE

- TP108 FSDB database code for Terrestrial Productivity, TP108

Enumerated Domain for Attribute: BLOCK

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- 5 Butte, Gifford Pinchot NF, Randle Distr., Skamania Co., WA

- 3 Layng Creek, Umpqua NF, Cottage Grove Distr., Lane Co., OR
- 2 Little River, Umpqua NF, N. Umpqua Distr., Douglas Co., OR
- 4 Dog Prairie, Umpqua NF, Diamond Lake Distr., Douglas Co., OR

Enumerated Domain for Attribute: LDECAY

- M Missing Ldecay
- 4 Bark absent; twigs <3 cm in diam absent; texture--wood chunks small, soft, blocky,cross-section round to oval; color light to brown-yellow; log on grd
- 5 Bark and twigs <3 cm in diam absent; texture--wood soft and powdery; cross-section oval; wood color light yellow or gray; all of log on ground
- 2 Bark intact; twigs <3 cm in diam absent; texture--wood intact to partly-soft cross-section round; wood original color; log elevated but sagging slightly
- 1 Bark intact; twigs <3 cm in diam present; texture-- wood intact; log cross-section round; wood original color; log elevated on support points
- 3 Bark loose/missing in places; <3 cm in diam absent; wood hard but in large pieces; cross-section round; wood original color\faded; log sagging near grd

Enumerated Domain for Attribute: LENGTH

- 1 <= 0.5 m
- 4 > 5.0 - 10.0 m
- 5 > 10.0 m
- 3 > 1.0 - 5.0 m
- M Missing Length
- 2 > 0.5 - 1.0 m

Enumerated Domain for Attribute: PTYPE

- 0 Uncut Plot
- 1 Cut Plot

Enumerated Domain for Attribute: TRANS

- C Transect C
- D Transect D
- B Transect B
- A Transect A
- 0 plot center (grid point)

Enumerated Domain for Attribute: TRT

- 1 100% retention (uncut)
- 5 15% retention (dispersed)
- 6 15% retention (aggregated)
- 4 40% retention (aggregated)
- 2 75% retention with gaps
- 3 40% retention (dispersed)

Enumerated Domain for Attribute: DATACODE

- TP108 FSDB database code for Terrestrial Productivity, TP108

Enumerated Domain for Attribute: BLOCK

- 8 Capital Forest, Capital Forest, Thurston Co., WA
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- 3 Layng Creek, Umpqua NF, Cottage Grove Distr., Lane Co., OR
- 2 Little River, Umpqua NF, N. Umpqua Distr., Douglas Co., OR
- 4 Dog Prairie, Umpqua NF, Diamond Lake Distr., Douglas Co., OR

Enumerated Domain for Attribute: PTYPE

- 0 Uncut Plot
- 1 Cut Plot

Enumerated Domain for Attribute: TRANS

- C Transect C
- D Transect D
- B Transect B
- A Transect A
- 0 plot center (grid point)

Enumerated Domain for Attribute: TRT

- 1 100% retention (uncut)
- 5 15% retention (dispersed)
- 6 15% retention (aggregated)
- 4 40% retention (aggregated)
- 2 75% retention with gaps
- 3 40% retention (dispersed)

Enumerated Domain for Attribute: DATACODE

- TP108 FSDB database code for Terrestrial Productivity, TP108

Enumerated Domain for Attribute: BLOCK

- 8 Capital Forest, Capital Forest, Thurston Co., WA
- 1 Watson Falls, Umpqua NF, Diamond Lake Distr., Douglas Co., OR
- 7 Paradise Hills, Gifford Pinchot NF, Wind River Distr., Skamania Co., WA
- 6 Little White Salmon, Gifford Pinchot NF, Mt. Adams Distr., NF, Skamania Co.,
- 5 Butte, Gifford Pinchot NF, Randle Distr., Skamania Co., WA
- 3 Layng Creek, Umpqua NF, Cottage Grove Distr., Lane Co., OR
- 2 Little River, Umpqua NF, N. Umpqua Distr., Douglas Co., OR

4 Dog Prairie, Umpqua NF, Diamond Lake Distr., Douglas Co., OR

Enumerated Domain for Attribute: BOLE1

- 8 Crook(s) in bole
- U Not recorded
- 9 Conk(s) present
- 7 Sweeping
- 3 Butt swell (if abnormal for species)
- 6 Grouse ladder
- 5 Leaning
- 1 Straight bole
- 2 Pistol butt
- 4 Forked or multiple boles

Enumerated Domain for Attribute: BOLE2

- 8 Crook(s) in bole
- U Not recorded
- 9 Conk(s) present
- 7 Sweeping
- 3 Butt swell (if abnormal for species)
- 6 Grouse ladder
- 5 Leaning
- 1 Straight bole
- 2 Pistol butt
- 4 Forked or multiple boles

Enumerated Domain for Attribute: BOLE3

- 8 Crook(s) in bole
- U Not recorded
- 9 Conk(s) present
- 7 Sweeping
- 3 Butt swell (if abnormal for species)
- 6 Grouse ladder
- 5 Leaning
- 1 Straight bole
- 2 Pistol butt
- 4 Forked or multiple boles

Enumerated Domain for Attribute: CANOPY

I	Intermediate
S	Suppressed
D	Dominant
C	Co-dominant
9	Not recorded

Enumerated Domain for Attribute: CROWN1

7	Crook in crown
6	Half-crowned
9	Flat top
8	Witch's broom
5	Unknown tops
4	Dead top
1	Good condition
3	Multiple tops/leaders
2	Broken top
U	Not recorded

Enumerated Domain for Attribute: CROWN2

7	Crook in crown
6	Half-crowned
9	Flat top
8	Witch's broom
5	Unknown tops
4	Dead top
1	Good condition
3	Multiple tops/leaders
2	Broken top
U	Not recorded

Enumerated Domain for Attribute: CROWN3

7	Crook in crown
6	Half-crowned
9	Flat top
8	Witch's broom
5	Unknown tops

4	Dead top
1	Good condition
3	Multiple tops/leaders
2	Broken top
U	Not recorded

Enumerated Domain for Attribute: DISTURB1

3	Old Scar(s)
1	No scar(s)
2	Fresh scar(s) (logging scar)
U	Not recorded

Enumerated Domain for Attribute: DISTURB2

3	Old Scar(s)
1	No scar(s)
2	Fresh scar(s) (logging scar)
U	Not recorded

Enumerated Domain for Attribute: PTYPE

0	Uncut Plot
1	Cut Plot

Enumerated Domain for Attribute: STATUS

9	Tree missing
0	Tree measured at plot establishment
1	Tree remeasured
6	Tree died
2	Ingrowth
8	No trees present in this year
U	Unknown/not recorded

Enumerated Domain for Attribute: TREEVIGOR

9	missing
3	Poor
6	Dead
1	Good
2	Fair
U	unknown

Enumerated Domain for Attribute: TRT

1	100% retention (uncut)
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5	15% retention (dispersed)
6	15% retention (aggregated)
4	40% retention (aggregated)
2	75% retention with gaps
3	40% retention (dispersed)

Enumerated Domain for Attribute: DATACODE

TP108	FSDB database code for Terrestrial Productivity, TP108
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Enumerated Domain for Attribute: PLANTED

U	Not recorded (if TreeID was ever status 2 in the past, i.e., originating as ingrowth, then "Planted" is undetermined)
P	Tree was planted
N	Tree was not planted
X	No trees present on plot

Enumerated Domain for Attribute: BLOCK

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2	Little River, Umpqua NF, N. Umpqua Distr., Douglas Co., OR
4	Dog Prairie, Umpqua NF, Diamond Lake Distr., Douglas Co., OR

Enumerated Domain for Attribute: ORIGIN

W	Created wildlife snag
N	Natural Snag
9	no snag present in plot

Enumerated Domain for Attribute: PTYPE

0	Uncut Plot
1	Cut Plot

Enumerated Domain for Attribute: SDECAY

3	Needles, twigs absent; bark absent
4	Needles, twigs absent; top broken out
5	Needles, twigs absent; bark absent; top broken out; decomposition obvious
2	Needles, twigs present; bark loose
9	Class missing due to snag missing, not present in plot, or not recorded
1	Needles, twigs present; bark tight

Enumerated Domain for Attribute: SHTCLASS

- 2 >1.5 - 5.0 m
- 4 >15.0 m
- 3 >5.0 - 15.0 m
- 1 0.5 - 1.5 m
- 9 Class missing due to snag missing, not present in plot, or not recorded

Enumerated Domain for Attribute: SNAGSTATUS

- 0 establishment year
- 1 present at remeasurement
- 9 missing; snag cannot be located
- 2 new snag in current year
- 6 snag has fallen, no longer in current population
- 8 no snag present in plot

Enumerated Domain for Attribute: TRT

- 1 100% retention (uncut)
- 5 15% retention (dispersed)
- 6 15% retention (aggregated)
- 4 40% retention (aggregated)
- 2 75% retention with gaps
- 3 40% retention (dispersed)

Enumerated Domain for Attribute: DATACODE

- TP108 FSDB database code for Terrestrial Productivity, TP108

Enumerated Domain for Attribute: BLOCK

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- 2 Little River, Umpqua NF, N. Umpqua Distr., Douglas Co., OR
- 4 Dog Prairie, Umpqua NF, Diamond Lake Distr., Douglas Co., OR

Enumerated Domain for Attribute: CANOPY

- I Intermediate
- S Suppressed
- D Dominant

C	Co-dominant
9	Not recorded

Enumerated Domain for Attribute: PTYPE

0	Uncut Plot
1	Cut Plot

Enumerated Domain for Attribute: TRT

1	100% retention (uncut)
5	15% retention (dispersed)
6	15% retention (aggregated)
4	40% retention (aggregated)
2	75% retention with gaps
3	40% retention (dispersed)

Enumerated Domain for Attribute: DATACODE

TP108	FSDB database code for Terrestrial Productivity, TP108
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Enumerated Domain for Attribute: BLOCK

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2	Little River, Umpqua NF, N. Umpqua Distr., Douglas Co., OR
4	Dog Prairie, Umpqua NF, Diamond Lake Distr., Douglas Co., OR

Enumerated Domain for Attribute: LOCATION

C	Transect C
A	Transect A
B	Transect B
D	Transect D
X	Plot Center

Enumerated Domain for Attribute: MMARK

6	End of Transect
0	Start of Transect
	Plot Center Location

Enumerated Domain for Attribute: PTYPE

0	Uncut Plot
---	------------

1 Cut Plot

Enumerated Domain for Attribute: TRT

1 100% retention (uncut)
5 15% retention (dispersed)
6 15% retention (aggregated)
4 40% retention (aggregated)
2 75% retention with gaps
3 40% retention (dispersed)

Enumerated Domain for Attribute: DATACODE

TP108 FSDB database code for Terrestrial Productivity, TP108

Enumerated Domain for Attribute: BLOCK

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4 Dog Prairie, Umpqua NF, Diamond Lake Distr., Douglas Co., OR

Enumerated Domain for Attribute: COVTYPE

CLITTER Coarse litter (< 10 cm diam.), not of harvest origin
STONE Stone, Rock (> 7 cm)
STUMP Stump, old or newly created
SLASH Slash (<10 cm diam.), derived from harvest activity
DSOIL Disturbed mineral soil
SKID Skid trail
FLOOR Intact forest floor
LOG Log (>=10 cm diam.); includes bark
LTREEBR Live tree base, bole, or root
HOLE Hole in the ground, burrow
TRAIL human-created trail
ROAD logging road or road edge
BURNP slash pile that has been burned
STREAMB Stream bed/channel with water

SHSTEM	Shrub stem, root, or base
RTWAD	Rootwad, holds mineral soil
SNAG	Snag, includes base and root
CLUMBER	cut lumber (for amphibian study)

Enumerated Domain for Attribute: PTYPE

0	Uncut Plot
1	Cut Plot

Enumerated Domain for Attribute: TRANS

C	Transect C
D	Transect D
B	Transect B
A	Transect A
0	plot center (grid point)

Enumerated Domain for Attribute: TRT

1	100% retention (uncut)
5	15% retention (dispersed)
6	15% retention (aggregated)
4	40% retention (aggregated)
2	75% retention with gaps
3	40% retention (dispersed)

Enumerated Domain for Attribute: DATACODE

TP108	FSDB database code for Terrestrial Productivity, TP108
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Enumerated Domain for Attribute: BLOCK

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2	Little River, Umpqua NF, N. Umpqua Distr., Douglas Co., OR
4	Dog Prairie, Umpqua NF, Diamond Lake Distr., Douglas Co., OR

Enumerated Domain for Attribute: PTYPE

0	Uncut Plot
1	Cut Plot

Enumerated Domain for Attribute: TRANS

C	Transect C
D	Transect D
B	Transect B
A	Transect A
0	plot center (grid point)

Enumerated Domain for Attribute: TRT

1	100% retention (uncut)
5	15% retention (dispersed)
6	15% retention (aggregated)
4	40% retention (aggregated)
2	75% retention with gaps
3	40% retention (dispersed)

Enumerated Domain for Attribute: DATACODE

TP108	FSDB database code for Terrestrial Productivity, TP108
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Enumerated Domain for Attribute: BLOCK

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3	Layng Creek, Umpqua NF, Cottage Grove Distr., Lane Co., OR
2	Little River, Umpqua NF, N. Umpqua Distr., Douglas Co., OR
4	Dog Prairie, Umpqua NF, Diamond Lake Distr., Douglas Co., OR

Enumerated Domain for Attribute: PTYPE

0	Uncut Plot
1	Cut Plot

Enumerated Domain for Attribute: STATUS

9	Tree missing
0	Tree measured at plot establishment
1	Tree remeasured
6	Tree died
2	Ingrowth
8	No trees present in this year
U	Unknown/not recorded

Enumerated Domain for Attribute: TRT

- 1 100% retention (uncut)
- 5 15% retention (dispersed)
- 6 15% retention (aggregated)
- 4 40% retention (aggregated)
- 2 75% retention with gaps
- 3 40% retention (dispersed)

Enumerated Domain for Attribute: VIGOR

- 1 Good (no apparent sign of distress)
- 9 Missing
- 3 Poor (extreme distress apparent, death imminent)
- 6 Dead
- 2 Fair (some signs of distress)
- 8 No trees present in plot (qtr=0 and tag=0)
- U Unknown/not recorded

Enumerated Domain for Attribute: DATACODE

- TP108 FSDB database code for Terrestrial Productivity, TP108

Enumerated Domain for Attribute: BLOCK

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- 3 Layng Creek, Umpqua NF, Cottage Grove Distr., Lane Co., OR
- 2 Little River, Umpqua NF, N. Umpqua Distr., Douglas Co., OR
- 4 Dog Prairie, Umpqua NF, Diamond Lake Distr., Douglas Co., OR

Enumerated Domain for Attribute: MISSING

- Y Photo missing

Enumerated Domain for Attribute: PRE_POST

- post Photo taken after application of treatment
- pre Photo taken before application of treatment

Enumerated Domain for Attribute: TRANS

- C Transect C
- D Transect D
- B Transect B

A Transect A
0 plot center (grid point)

Enumerated Domain for Attribute: TRT

1 100% retention (uncut)
5 15% retention (dispersed)
6 15% retention (aggregated)
4 40% retention (aggregated)
2 75% retention with gaps
3 40% retention (dispersed)

Enumerated Domain for Attribute: DATACODE

TP108 FSDB database code for Terrestrial Productivity, TP108

Enumerated Domain for Attribute: BLOCK

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3 Layng Creek, Umpqua NF, Cottage Grove Distr., Lane Co., OR
2 Little River, Umpqua NF, N. Umpqua Distr., Douglas Co., OR
4 Dog Prairie, Umpqua NF, Diamond Lake Distr., Douglas Co., OR

Enumerated Domain for Attribute: CANOPY

I Intermediate
S Suppressed
D Dominant
C Co-dominant
9 Not recorded

Enumerated Domain for Attribute: COND1

41 pitch tubes on bole
21 rot at break
42 beetle galleries
99 no condition code
52 rot (note type and position)
1 green needles/leaves present
4 dead several years

11	crown flat-topped
3	bark sloughing
53	tree hollow
2	dead needles/leaves present
55	oozing wounds
54	pitch sheets
72	girdling (comment)
73	woodpecker/sapsucker activity
14	crown stripped by falling tree or snag
71	scarring of bole (comment)
60	witch's broom
56	mistletoe
12	evidence of earlier loss of part of crown
13	spike top/top dieback

Enumerated Domain for Attribute: COND2

41	pitch tubes on bole
21	rot at break
42	beetle galleries
99	no condition code
52	rot (note type and position)
1	green needles/leaves present
4	dead several years
11	crown flat-topped
3	bark sloughing
53	tree hollow
2	dead needles/leaves present
55	oozing wounds
54	pitch sheets
72	girdling (comment)
73	woodpecker/sapsucker activity
14	crown stripped by falling tree or snag
71	scarring of bole (comment)
60	witch's broom
56	mistletoe

- 12 evidence of earlier loss of part of crown
- 13 spike top/top dieback

Enumerated Domain for Attribute: COND3

- 41 pitch tubes on bole
- 21 rot at break
- 42 beetle galleries
- 99 no condition code
- 52 rot (note type and position)
- 1 green needles/leaves present
- 4 dead several years
- 11 crown flat-topped
- 3 bark sloughing
- 53 tree hollow
- 2 dead needles/leaves present
- 55 oozing wounds
- 54 pitch sheets
- 72 girdling (comment)
- 73 woodpecker/sapsucker activity
- 14 crown stripped by falling tree or snag
- 71 scarring of bole (comment)
- 60 witch's broom
- 56 mistletoe
- 12 evidence of earlier loss of part of crown
- 13 spike top/top dieback

Enumerated Domain for Attribute: COND4

- 41 pitch tubes on bole
- 21 rot at break
- 42 beetle galleries
- 99 no condition code
- 52 rot (note type and position)
- 1 green needles/leaves present
- 4 dead several years
- 11 crown flat-topped
- 3 bark sloughing

53	tree hollow
2	dead needles/leaves present
55	oozing wounds
54	pitch sheets
72	girdling (comment)
73	woodpecker/sapsucker activity
14	crown stripped by falling tree or snag
71	scarring of bole (comment)
60	witch's broom
56	mistletoe
12	evidence of earlier loss of part of crown
13	spike top/top dieback

Enumerated Domain for Attribute: COND5

41	pitch tubes on bole
21	rot at break
42	beetle galleries
99	no condition code
52	rot (note type and position)
1	green needles/leaves present
4	dead several years
11	crown flat-topped
3	bark sloughing
53	tree hollow
2	dead needles/leaves present
55	oozing wounds
54	pitch sheets
72	girdling (comment)
73	woodpecker/sapsucker activity
14	crown stripped by falling tree or snag
71	scarring of bole (comment)
60	witch's broom
56	mistletoe
12	evidence of earlier loss of part of crown
13	spike top/top dieback

Enumerated Domain for Attribute: COND6

41	pitch tubes on bole
21	rot at break
42	beetle galleries
99	no condition code
52	rot (note type and position)
1	green needles/leaves present
4	dead several years
11	crown flat-topped
3	bark sloughing
53	tree hollow
2	dead needles/leaves present
55	oozing wounds
54	pitch sheets
72	girdling (comment)
73	woodpecker/sapsucker activity
14	crown stripped by falling tree or snag
71	scarring of bole (comment)
60	witch's broom
56	mistletoe
12	evidence of earlier loss of part of crown
13	spike top/top dieback

Enumerated Domain for Attribute: POSITION

3	crushed but rooted
4	uprooted
2	main stem broken
1	Standing w/ crown
9	position is unknown; tree is missing

Enumerated Domain for Attribute: PTYPE

0	Uncut Plot
1	Cut Plot

Enumerated Domain for Attribute: TRT

1	100% retention (uncut)
5	15% retention (dispersed)

6	15% retention (aggregated)
4	40% retention (aggregated)
2	75% retention with gaps
3	40% retention (dispersed)

Enumerated Domain for Attribute: DATACODE

TP108	FSDB database code for Terrestrial Productivity, TP108
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Enumerated Domain for Attribute: BLOCK

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3	Layng Creek, Umpqua NF, Cottage Grove Distr., Lane Co., OR
2	Little River, Umpqua NF, N. Umpqua Distr., Douglas Co., OR
4	Dog Prairie, Umpqua NF, Diamond Lake Distr., Douglas Co., OR

Enumerated Domain for Attribute: PTYPE

0	Uncut Plot
1	Cut Plot

Enumerated Domain for Attribute: TRANS

C	Transect C
D	Transect D
B	Transect B
A	Transect A
0	plot center (grid point)

Enumerated Domain for Attribute: TRT

1	100% retention (uncut)
5	15% retention (dispersed)
6	15% retention (aggregated)
4	40% retention (aggregated)
2	75% retention with gaps
3	40% retention (dispersed)

Enumerated Domain for Attribute: DATACODE

TP108	FSDB database code for Terrestrial Productivity, TP108
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Enumerated Domain for Attribute: BLOCK

8	Capital Forest, Capital Forest, Thurston Co., WA
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- 5 Butte, Gifford Pinchot NF, Randle Distr., Skamania Co., WA
- 3 Layng Creek, Umpqua NF, Cottage Grove Distr., Lane Co., OR
- 2 Little River, Umpqua NF, N. Umpqua Distr., Douglas Co., OR
- 4 Dog Prairie, Umpqua NF, Diamond Lake Distr., Douglas Co., OR

Enumerated Domain for Attribute: CROWN1

- 7 Crook in crown
- 6 Half-crowned
- 9 Flat top
- 8 Witch's broom
- 5 Unknown tops
- 4 Dead top
- 1 Good condition
- 3 Multiple tops/leaders
- 2 Broken top
- U Not recorded

Enumerated Domain for Attribute: CROWN2

- 7 Crook in crown
- 6 Half-crowned
- 9 Flat top
- 8 Witch's broom
- 5 Unknown tops
- 4 Dead top
- 1 Good condition
- 3 Multiple tops/leaders
- 2 Broken top
- U Not recorded

Enumerated Domain for Attribute: DIST1

- 3 Old Scar(s)
- 1 No scar(s)
- 2 Fresh scar(s) (logging scar)
- U Not recorded

Enumerated Domain for Attribute: DIST2

3	Old Scar(s)
1	No scar(s)
2	Fresh scar(s) (logging scar)
U	Not recorded

Enumerated Domain for Attribute: PTYPE

0	Uncut Plot
1	Cut Plot

Enumerated Domain for Attribute: STEM1

1	Straight stem
3	Butt swell (if abnormal for species)
6	lost dominance in terminal leader
5	Leaning
2	Pistol butt
4	Forked or multiple stems
9	foliage discoloration
7	Sweep
	no code
8	Crook(s) in stem

Enumerated Domain for Attribute: STEM2

1	Straight stem
3	Butt swell (if abnormal for species)
6	lost dominance in terminal leader
5	Leaning
2	Pistol butt
4	Forked or multiple stems
9	foliage discoloration
7	Sweep
	no code
8	Crook(s) in stem

Enumerated Domain for Attribute: TRANS

C	Transect C
D	Transect D
B	Transect B

A	Transect A
0	plot center (grid point)

Enumerated Domain for Attribute: TRT

1	100% retention (uncut)
5	15% retention (dispersed)
6	15% retention (aggregated)
4	40% retention (aggregated)
2	75% retention with gaps
3	40% retention (dispersed)

Enumerated Domain for Attribute: DATACODE

TP108	FSDB database code for Terrestrial Productivity, TP108
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