

Database Code: TP073

Title: Plant succession and biomass dynamics following logging and burning in Watersheds 1 and 3, Andrews Experimental Forest, 1962 to Present

Abstract:

There has been long history of geomorphic, hydrological, and ecological study in the experimental watersheds of HJA, which include WS1 and WS3 and the neighboring old-growth basin, WS2. These include comparative studies of sediment yield, stream chemistry, and water flow following whole-basin logging of WS1 and patch-cut logging of WS3, and long-term studies of post-harvest forest development. The latter, initiated in 1962, are among the longest-running and most intensive studies of secondary succession in forests of North America. They are based on two types of permanent plots (understory and overstory), spatially linked to facilitate analyses of overstory-understory interactions. Plots in WS1 and WS3 occur within transects within units of the watersheds. Understory quadrats were established in 1962, prior to harvest, and have been sampled periodically since the watersheds were cut and broadcast burned. They have been used to study how species' life histories, pre-disturbance composition, disturbance intensity, and overstory development contribute to the long-term dynamics of the understory. These are 2 m by 2 m quadrats where canopy cover, ground conditions, growth forms, species cover and biomass have been monitored. Overstory tree plots were established nearly two decades later (1979-1980) to characterize the early stages of forest development, including the recruitment (ingrowth), growth, and mortality of conifers and hardwoods. These are circular plots (radius=8.92 m) where live trees greater than or equal to 1.37 m tall are measured for diameter at breast height or basal diameter. Remeasurement of these plots occurs on 5 or 6 year intervals.

Keywords: Biomass (trees); Biomass (understory); Canopy closure; Canopy communities; Clearcut logging; Community composition; Community structure; Disturbance; Long-Term Ecological Research (LTER); Nutrients; Plant community ecology; Plant succession; Primary production; Slash burning; Slash/broadcast burning; Succession; Trophic structure; Organic matter; Primary production; communities; community structure; Long-Term Ecological Research (LTER); plant ecology; canopy cover; biomass; community composition; trophic structure; succession; primary production; disturbance; burning; timber harvest; clearcutting; nutrients; organic matter; canopies; plants; trees; understory vegetation;

Date data commenced: 1962-01-01

Date data terminated: 2017-10-27

Principal Investigator: Charles B. Halpern

List of Entities:

- 1. Watersheds 1 and 3 Succession Plots -- Plot descriptions: Vegetation and soil classifications with location, elevation, aspect and slope measurements
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1. Watersheds 1 and 3 Succession Plots -- Plot descriptions: Vegetation and soil classifications with location, elevation, aspect and slope measurements

Attribute List:

Table with 9 columns: Attribute Name, N, N, Data Type, Enum/Range, Min, Max, Unit. Rows include STCODE, FORMAT, PLOTID, WATERSHED, UNIT, TRANSECT, PLOT, and PLANT\_COMMUN.

SOIL_TYPE	N	N	char(1)	enum			
SOIL_DISTURB	N	N	char(1)	enum			
ELEVATION_GPS	N	Y	numeric(4,0)	range	479.0000	966.0000	number
ELEVATION_DEM10	N	Y	numeric(4,0)	range	475.0000	964.0000	m
ELEVATION_LIDARN	N	Y	numeric(4,0)	range	485.0000	961.0000	number
ASPECT	N	Y	char(2)	enum			
ASPECT_FIELD	N	Y	numeric(3,0)	range	0.0000	360.0000	deg
ASPECT_DEM10	N	Y	numeric(3,0)	range	0.0000	360.0000	angle
SLOPE_FIELD	N	Y	numeric(3,0)	range	0.0000	90.0000	deg
SLOPE_DEM10	N	Y	numeric(3,0)	range	9.0000	123.0000	angle
GPS_TYPE	N	N	char(1)	enum			%
LATITUDE	N	Y	numeric(13,8)	range	44.1900	44.2200	deg
LONGITUDE	N	Y	numeric(13,8)	range	-122.2600	-122.2200	lat-lon
UTM_EASTING	N	Y	numeric(8,0)	range	559491.0000	561758.0000	deg
UTM_NORTHING	N	Y	numeric(8,0)	range	4894081.0000	4895196.0000	lat-lon

## 2. WS1 & 3 Succession Plots -- Cover, frequency, and biomass measurement data

### Attribute List:

STCODE	N	N	char(5)	enum			
FORMAT	N	N	numeric(2,0)	range	2.0000	2.0000	number
YEAR	Y	N	numeric(4,0)	range	1962.0000	2017.0000	number
PLOTID	Y	N	char(6)	place			
WATERSHED	N	N	char(4)	place	1.0000	3.0000	
UNIT	N	N	char(2)	enum	1.0000	3.0000	
TRANSECT	N	N	char(1)	enum	1.0000	6.0000	
PLOT	N	N	numeric(2,0)	range	1.0000	27.0000	number
QUADRAT	Y	N	char(1)	enum			
SPECIES	Y	N	char(6)	taxa			
TYPE	N	N	char(2)	enum			
COVER	N	Y	numeric(5,1)	range	0.0000	100.0000	%
FREQUENCY	N	Y	numeric(1,0)	range	0.0000	9.0000	number
INDIV_COUNT	Y	N	numeric(3,0)	range	1.0000	137.0000	number
DBH	N	Y	numeric(5,1)	range	0.8000	53.2000	cm
DBA	N	Y	numeric(5,1)	range	0.1000	120.0000	cm
HEIGHT	N	Y	numeric(6,1)	range	1.0000	1900.0000	cm

STEMS	N	Y	numeric(3,0)	range	1.0000	200.0000	number
LENGTH	N	Y	numeric(5,1)	range	1.0000	220.0000	cm
WIDTH	N	Y	numeric(5,1)	range	0.8000	50.0000	cm
TAG	N	Y	numeric(5,0)	range	6.0000	9984.0000	number
OUTOFPLOT	N	Y	char(1)	enum			
SAMPLEDATE	Y	N	datetime	range	9/25/1962	10/27/2017	YYYY-MM-DD
					12:00:00	12:00:00	
					AM	AM	

**3. WS1 & 3 Succession Plots -- Tagged trees: Diameter data**

**Attribute List:**

STCODE	N	N	char(5)	enum			
FORMAT	N	N	numeric(2,0)	range	3.0000	3.0000	number
YEAR	Y	N	numeric(4,0)	range	1979.0000	2017.0000	number
PLOTID	Y	Y	char(6)	place			
WATERSHED	N	N	char(4)	place	1.0000	3.0000	
UNIT	N	N	char(2)	enum	1.0000	3.0000	
TRANSECT	N	N	char(1)	enum	1.0000	6.0000	
PLOT	N	N	numeric(2,0)	range	1.0000	27.0000	number
QUARTER	Y	N	numeric(1,0)	range	1.0000	4.0000	number
TAG	Y	Y	numeric(5,0)	range	1.0000	10000.0000	number
CLUMP	Y	Y	numeric(5,0)	range	2.0000	9988.0000	number
NEARTAG	N	Y	numeric(5,0)	range	1.0000	10000.0000	number
OLDTAG	N	Y	numeric(5,0)	range	1.0000	10000.0000	number
TREE_SPP	Y	N	char(5)	taxa			
CLPCLASS	Y	Y	char(1)	enum			
STEMCOUNT	N	Y	numeric(3,0)	range	0.0000	30.0000	number
BDIA	N	Y	numeric(5,1)	range	0.2000	27.0000	cm
HDIA	N	Y	numeric(5,1)	range	0.3000	140.0000	cm
VIGOR	N	Y	char(1)	enum			
STATUS	N	Y	char(1)	enum			
SAMPLEDATE	N	N	datetime	range	6/21/1979	10/27/2017	YYYY-MM-DD
					12:00:00	12:00:00	
					AM	AM	
COMMENTS	N	Y	varchar(200)	freetext			

**4. WS1 & 3 Succession Plots -- Tagged trees: Height data**

**Attribute List:**

STCODE	N	N	char(5)	enum			
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FORMAT	N	N	numeric(2,0)	range	4.0000	4.0000	number
YEAR	Y	N	numeric(4,0)	range	1979.0000	1979.0000	number
PLOTID	Y	Y	char(6)	place			
WATERSHED	N	N	char(4)	place	1.0000	3.0000	
UNIT	N	N	char(2)	enum	1.0000	3.0000	
TRANSECT	N	N	char(1)	enum	1.0000	6.0000	
PLOT	N	N	numeric(2,0)	range	1.0000	24.0000	number
QUARTER	Y	Y	numeric(1,0)	range	1.0000	4.0000	number
TAG	Y	Y	numeric(5,0)	range	4.0000	3110.0000	number
TREE_SPP	N	N	char(5)	taxa			
BDIA	N	Y	numeric(5,1)	range	0.5000	27.0000	cm
HDIA	N	Y	numeric(5,1)	range	1.4000	17.5000	cm
TREE_HT	N	N	numeric(5,1)	range	1.2000	10.2000	m
LEADER	N	Y	numeric(3,0)	range	15.0000	110.0000	cm
SAMPLEDATE	N	Y	datetime	range	6/21/1979	9/11/1979	YYYY-MM-DD
					12:00:00	12:00:00	
					AM	AM	
COMMENTS	N	Y	varchar(200)	freetext			

#### 5. WS1 & 3 Succession Plots -- Canopy closure

##### Attribute List:

STCODE	N	N	char(5)	enum			
FORMAT	N	N	numeric(2,0)	range	5.0000	5.0000	number
YEAR	Y	N	numeric(4,0)	range	1990.0000	2017.0000	number
PLOTID	Y	N	char(6)	place			
WATERSHED	N	N	char(4)	place	1.0000	3.0000	
UNIT	N	N	char(2)	enum	1.0000	3.0000	
TRANSECT	N	N	char(1)	enum	1.0000	6.0000	
PLOT	N	N	numeric(2,0)	range	1.0000	27.0000	number
COVNW	N	Y	numeric(5,1)	range	0.0000	100.0000	%
COVNE	N	Y	numeric(5,1)	range	0.0000	100.0000	%
COVSE	N	Y	numeric(5,1)	range	0.0000	100.0000	%
COVSW	N	Y	numeric(5,1)	range	0.0000	100.0000	%
LOCATION	N	N	char(2)	enum			
CCONIF	N	N	numeric(5,1)	range	0.0000	100.0000	%
CHRDWOOD	N	N	numeric(5,1)	range	0.0000	100.0000	%
CSHRUB	N	N	numeric(5,1)	range	0.0000	100.0000	%

CTOTAL	N	N	numeric(5,1)	range	0.0000	100.0000	%
DIRECTN	Y	N	char(1)	enum			
CANCLOS	N	N	char(1)	enum			
SPECIES1	N	Y	char(5)	taxa			
SPECIES2	N	Y	char(5)	taxa			
SPECIES3	N	Y	char(5)	taxa			
SPECIES4	N	Y	char(5)	taxa			
SPECIES5	N	Y	char(5)	taxa			

#### 6. Reference trees for plot center re-location

**Attribute List:**

STCODE	N	N	char(5)	enum			
FORMAT	N	N	numeric(2,0)	range	6.0000	6.0000	number
YEAR	Y	N	numeric(4,0)	range	2017.0000	2017.0000	number
PLOTID	Y	N	char(6)	place			
WATERSHED	N	N	char(4)	place			
UNIT	N	N	char(2)	enum			
TRANSECT	N	N	char(1)	enum			
PLOT	N	N	numeric(2,0)	range	1.0000	27.0000	number
REF1_TAG	N	Y	numeric(5,0)	range	1.0000	9978.0000	number
REF1_DIST	N	Y	numeric(5,2)	range	0.0100	6.7500	m
REF1_AZ	N	Y	numeric(3,0)	range	1.0000	362.0000	deg az
REF2_TAG	N	Y	numeric(5,0)	range	1.0000	9985.0000	number
REF2_DIST	N	Y	numeric(5,2)	range	0.0100	8.5000	m
REF2_AZ	N	Y	numeric(3,0)	range	1.0000	364.0000	deg az
SAMPLEDATE	N	N	datetime	range	6/27/2017 12:00:00 AM	10/27/2017 12:00:00 AM	YYYY-MM-DD
COMMENTS	N	Y	varchar(200)	freetext			

Attributes Definitions:

ASPECT

General aspect of plot by 8 cardinal directions

ASPECT\_DEM10

Aspect determined from 10 meter DEM at GPS plot coordinates

ASPECT\_FIELD

Aspect as measured by true north-based azimuth (deg), measured in 2002

BDIA

Basal diameter

CANCLOS

Relative canopy closure

CCONIF

% canopy cover by conifers (> 2 m tall)

CHRDWOOD

% canopy cover by hardwoods (> 2 m tall)

CLPCLASS

Clump size class

CLUMP

Clump number

COMMENTS

Comments

COVER

Cover (percent of plot) - this is either plant species, growth form or ground surface cover

COVNE

Percent cover in ne quadrant

COVNW

Percent cover in nw quadrant

COVSE

Percent cover in se quadrant

COVSW

Percent cover in sw quadrant

CSHRUB

% canopy cover by shrubs (> 2 m tall)

CTOTAL

Total canopy cover (> 2 m tall)

DBA

Basal diameter - measured at base above any basal swell

DBH

Diameter at breast height - measured directly above the nail

DIRECTN

Direction relative to start of transect (as you look toward plot 1 on transect)

ELEVATION\_DEM10

Elevation (m) determined from 10 meter DEM at GPS plot coordinates

ELEVATION\_GPS

Elevation as measured by a Trimble Asset Surveyor with TDC-1 data logger in the field or interpolated (See gps\_type)

ELEVATION\_LIDAR

Elevation as determined from 1 meter LIDAR at GPS plot coordinates in NAD83

FORMAT

Entity number

FREQUENCY

Frequency of a single species occurrence (0 to 9) in nine 1.1 foot-square plots in one quarter of 6.6 square foot central plot - used from 1962 through 1977

GPS\_TYPE

Defines method of assigning location coordinates: measured in field with Trimble Asset Surveyor (M) or interpolated from measured plots (I)

HDIA

Diameter at breast height

HEIGHT

Plant height

INDIV\_COUNT

Unique consecutive number assigned to each species requiring biomass measurements to account for multiple occurrences within the plot, e.g., multiple stems (formerly lc=line count)

LATITUDE

Degrees latitude as determined from the GPS plot coordinates using NAD83 datum

LEADER

Length of the current leader

LENGTH

Length

LOCATION

Indicates where the truck mirror was placed in the plot

LONGITUDE

Degrees longitude as determined from the GPS plot coordinates using NAD83 datum

NEARTAG

Tag near the tree of interest

OLDTAG

Previous tag different from the tag of current measurement year

OUTOFPLOT

Indicates whether plant species is rooted outside of plot (Y=outside, N=inside) - use begins in 2002

PLANT\_COMMUN

Plant community code (Rothacher, Jack; Dyrness, C. T.; Fredriksen, Richard L. 1967.)

PLOT

Plot number of 250 square meter plot

PLOTID

Plot Id consisting of watershed, unit, transect, and plot number

## QUADRAT

Quadrat number - the central, original and long-term cover measurement plot is quadrat 0 - satellite quadrats (1-4) were added to increase the sampling area within the 250 sq. m plot but were discontinued (WS01: 1980-1983, WS03: 1979-1987)

## QUARTER

Quarter number in plot

## REF1\_AZ

Azimuth from reference tree 1 to plot center location

## REF1\_DIST

Distance from reference tree 1 to plot center location

## REF1\_TAG

Tag number for reference tree 1

## REF2\_AZ

Azimuth from reference tree 2 to plot center location

## REF2\_DIST

Distance from reference tree 2 to plot center location

## REF2\_TAG

Tag number for reference tree 2

## SAMPLEDATE

Field measurement date

## SLOPE\_DEM10

Slope determined from 10 meter DEM at GPS plot coordinates

## SLOPE\_FIELD

Slope of plot as estimated in the field from plot center

## SOIL\_DISTURB

Soil disturbance code

## SOIL\_TYPE

Soil type code (Rothacher, Jack; Dyrness, C. T.; Fredriksen, Richard L. 1967. and Dyrness, C. T. 1969.)

## SPECIES

Species code

## SPECIES1

Species 1 code

## SPECIES2

Species 2 code

## SPECIES3

Species 3 code

## SPECIES4

Species 4 code

## SPECIES5



Species 5 code

STATUS

The status of the tree

STCODE

Study code

STEMCOUNT

Count of stems within the clclass 0 or 3

STEMS

Number of stems

TAG

Stem tag number - use begins in 1983 and all trees are tagged greater than 1.37 meters tall

TRANSECT

Transect number

TREE\_HT

Height of the tree

TREE\_SPP

Tree species code

TYPE

Cover type indicator - describes whether SPECIES is a plant species, genus or family, a growth form, or a ground surface type

UNIT

Watershed / Cutting unit number

UTM\_EASTING

UTM Easting coordinate - Zone 10

UTM\_NORTHING

UTM Northing coordinate - Zone 10

VIGOR

Vigor of the tree

WATERSHED

Watershed number

WIDTH

Width

YEAR

Year of measurement

Enumerated Domains:

Enumerated Domain for Attribute: ASPECT

NE Northeast

SW Southwest

NW	Northwest
S	South
W	West
E	East
N	North
SE	Southeast
	Unknown aspect
PS	Plant species
PF	Plant family
PG	Plant genus

Enumerated Domain for Attribute: PLANT\_COMMUN

7	Unclassified
1	Corylus cornuta - Gaultheria shallon
4	Acer circinatum - Berberis nervosa
2	Rhododendron macrophyllum - Gaultheria shallon
3	Acer circinatum - Gaultheria shallon
6	Polystichum munitum
5	Coptis laciniata

Enumerated Domain for Attribute: SOIL\_DISTURB

1	Undisturbed
2	Disturbed/unburned
4	Severely (heavily) burned
3	Lightly burned

Enumerated Domain for Attribute: SOIL\_TYPE

8	Stony limberlost
9	Talus
3	Andesite colluvium
1	Frissell
7	Stony frissell
2	Limberlost
4	McKenzie River
5	Budworm
6	Slipout

Enumerated Domain for Attribute: TRANSECT

- 5 Transect 5 - 5th lowest elevation transect for locating plots across watershed/unit
- 4 Transect 4 - 4th lowest elevation transect for locating plots across watershed/unit
- 2 Transect 2 - 2nd lowest elevation transect for locating plots across watershed/unit
- 3 Transect 3 - 3rd lowest elevation transect for locating plots across watershed/unit
- 1 Transect 1 - lowest elevation transect for locating plots across watershed/unit
- 6 Transect 6 - highest elevation transect for locating plots across watershed/unit

Enumerated Domain for Attribute: UNIT

- 32 WS03 - Unit 2: USFS stand number 1000887, cutting unit L221, original unit 9D
- 33 WS03 - Unit 3: USFS stand number 1000941, cutting unit L222, original unit 9E
- 31 WS03 - Unit 1: USFS stand number 1000872, cutting unit L141, original unit 9C
- 11 WS01 - Unit 1: USFS stand number 1001009, cutting unit Watershed 1, original unit number not assigned

Enumerated Domain for Attribute: STCODE

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Enumerated Domain for Attribute: GPS\_TYPE

- M Measured
- I Interpolated

Enumerated Domain for Attribute: OUTOFPLOT

- 9 Outside of plot status not recorded
- Y Plant rooted outside of measurement quadrat
- N Plant rooted inside of measurement quadrat

Enumerated Domain for Attribute: TRANSECT

- 5 Transect 5 - 5th lowest elevation transect for locating plots across watershed/unit
- 4 Transect 4 - 4th lowest elevation transect for locating plots across watershed/unit
- 2 Transect 2 - 2nd lowest elevation transect for locating plots across watershed/unit
- 3 Transect 3 - 3rd lowest elevation transect for locating plots across watershed/unit
- 1 Transect 1 - lowest elevation transect for locating plots across watershed/unit
- 6 Transect 6 - highest elevation transect for locating plots across watershed/unit

Enumerated Domain for Attribute: UNIT

- 32 WS03 - Unit 2: USFS stand number 1000887, cutting unit L221, original unit 9D
- 33 WS03 - Unit 3: USFS stand number 1000941, cutting unit L222, original unit 9E
- 31 WS03 - Unit 1: USFS stand number 1000872, cutting unit L141, original unit 9C
- 11 WS01 - Unit 1: USFS stand number 1001009, cutting unit Watershed 1, original unit number not assigned

Enumerated Domain for Attribute: STCODE

- TP073 Study Code TP073

Enumerated Domain for Attribute: QUADRAT

- 0 Central and long-term measurement plot (quadrat) for percent cover
- 1 Satellite quadrat 1 established in one corner of each plot
- 2 Satellite quadrat 2 established in one corner of each plot
- 3 Satellite quadrat 3 established in one corner of each plot
- 4 Satellite quadrat 4 established in one corner of each plot

Enumerated Domain for Attribute: TYPE

- PC Plant cover
- GF Growth form
- GC Ground cover

Enumerated Domain for Attribute: CLPCLASS

- B Measurements were taken at the base of the tree
- 0 Dbh = 0 to 2.9 cm.
- 3 Dbh = 3.0 to 4.9 cm.
- H Measurements were taken at breast of height (1.37meters above base)
- M Place holder for where tags are missing; these need to be replaced

Enumerated Domain for Attribute: STATUS

- 7 All stem(s) have grown out of this size class
- 9 Missing
- 2 Ingrowth
- 6 Dead
- 1 Alive, present last time
- 0 Establishment year

Enumerated Domain for Attribute: TRANSECT

- 5 Transect 5 - 5th lowest elevation transect for locating plots across watershed/unit
- 4 Transect 4 - 4th lowest elevation transect for locating plots across watershed/unit
- 2 Transect 2 - 2nd lowest elevation transect for locating plots across watershed/unit
- 3 Transect 3 - 3rd lowest elevation transect for locating plots across watershed/unit
- 1 Transect 1 - lowest elevation transect for locating plots across watershed/unit
- 6 Transect 6 - highest elevation transect for locating plots across watershed/unit

Enumerated Domain for Attribute: UNIT

- 32 WS03 - Unit 2: USFS stand number 1000887, cutting unit L221, original unit 9D
- 33 WS03 - Unit 3: USFS stand number 1000941, cutting unit L222, original unit 9E
- 31 WS03 - Unit 1: USFS stand number 1000872, cutting unit L141, original unit 9C
- 11 WS01 - Unit 1: USFS stand number 1001009, cutting unit Watershed 1, original

unit number not assigned

Enumerated Domain for Attribute: VIGOR

3	Very bad
1	Alive, present last time
2	Poor
M	Vigor is not recorded for dead or missing trees
U	Unknown vigor of a living tree - vigor is not recorded
N	Vigor is not recorded for clumps (clpclass=0 or 3)

Enumerated Domain for Attribute: STCODE

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Enumerated Domain for Attribute: TRANSECT

5	Transect 5 - 5th lowest elevation transect for locating plots across watershed/unit
4	Transect 4 - 4th lowest elevation transect for locating plots across watershed/unit
2	Transect 2 - 2nd lowest elevation transect for locating plots across watershed/unit
3	Transect 3 - 3rd lowest elevation transect for locating plots across watershed/unit
1	Transect 1 - lowest elevation transect for locating plots across watershed/unit
6	Transect 6 - highest elevation transect for locating plots across watershed/unit

Enumerated Domain for Attribute: UNIT

32	WS03 - Unit 2: USFS stand number 1000887, cutting unit L221, original unit 9D
33	WS03 - Unit 3: USFS stand number 1000941, cutting unit L222, original unit 9E
31	WS03 - Unit 1: USFS stand number 1000872, cutting unit L141, original unit 9C
11	WS01 - Unit 1: USFS stand number 1001009, cutting unit Watershed 1, original unit number not assigned

Enumerated Domain for Attribute: STCODE

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Enumerated Domain for Attribute: CANCLOS

3	51 - 75% canopy closure
4	76 - 100% canopy closure
2	26 - 50% canopy closure
1	0 - 25% canopy closure
N	Not measured

Enumerated Domain for Attribute: DIRECTN

L	Left of transect (as you look up transect)
D	Down transect (toward the last plot on transect)
R	Right of transect (as you look up transect)
U	Up transect (toward plot 1 on transect)

9 Not measured

Enumerated Domain for Attribute: LOCATION

NE Mirror in northeast corner  
NW Mirror in northwest corner  
SE Mirror in southeast corner  
R Mirror at rebar  
SW Mirror in southwest corner  
9 Not measured

Enumerated Domain for Attribute: TRANSECT

5 Transect 5 - 5th lowest elevation transect for locating plots across watershed/unit  
4 Transect 4 - 4th lowest elevation transect for locating plots across watershed/unit  
2 Transect 2 - 2nd lowest elevation transect for locating plots across watershed/unit  
3 Transect 3 - 3rd lowest elevation transect for locating plots across watershed/unit  
1 Transect 1 - lowest elevation transect for locating plots across watershed/unit  
6 Transect 6 - highest elevation transect for locating plots across watershed/unit

Enumerated Domain for Attribute: UNIT

32 WS03 - Unit 2: USFS stand number 1000887, cutting unit L221, original unit 9D  
33 WS03 - Unit 3: USFS stand number 1000941, cutting unit L222, original unit 9E  
31 WS03 - Unit 1: USFS stand number 1000872, cutting unit L141, original unit 9C  
11 WS01 - Unit 1: USFS stand number 1001009, cutting unit Watershed 1, original unit number not assigned

Enumerated Domain for Attribute: STCODE

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Enumerated Domain for Attribute: TRANSECT

5 Transect 5 - 5th lowest elevation transect for locating plots across watershed/unit  
4 Transect 4 - 4th lowest elevation transect for locating plots across watershed/unit  
2 Transect 2 - 2nd lowest elevation transect for locating plots across watershed/unit  
3 Transect 3 - 3rd lowest elevation transect for locating plots across watershed/unit  
1 Transect 1 - lowest elevation transect for locating plots across watershed/unit  
6 Transect 6 - highest elevation transect for locating plots across watershed/unit

Enumerated Domain for Attribute: UNIT

32 WS03 - Unit 2: USFS stand number 1000887, cutting unit L221, original unit 9D  
33 WS03 - Unit 3: USFS stand number 1000941, cutting unit L222, original unit 9E  
31 WS03 - Unit 1: USFS stand number 1000872, cutting unit L141, original unit 9C  
11 WS01 - Unit 1: USFS stand number 1001009, cutting unit Watershed 1, original unit number not assigned

Enumerated Domain for Attribute: STCODE  
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