Database Code: TV070

Title:Primary succession on Mount St. Helens: long-term permanent plots

Abstract:

<The data in this database describe the permanent plots collected on Mount St. Helens from 1980 to 2005 by Roger del Moral. Plots</p> occur in mildly impacted tephra, scoured sites on the southwest and northeast portions of the cone, on lahars on the southwest side and devastated sites on the Plains of Abraham, Pumice Plain, Pine Creek Ridge, Toutle Ridge and Studebaker Ridge. These plots permit monitoring of the development of vegetation in a detailed way. Data include species composition, richness, cover, frequency and diversity for each year sampled. Summaries are found at: http://protist.biology.washington.edu/delmoral/permplots.html have formed the basis of several papers. Citations are available at: http://faculty.washington.edu/moral/publications.html

Keywords: Conifers; Disturbance; Forbs; Grass legume; Mosses; Permanent plots; Shrubs; Succession; Volcano; permanent plots;succession;disturbance;volcanic;grasses;forbs;shrubs;conifers;mosses;

Date data commenced:1980-06-01 Date data terminated:2005-09-30 Principal Investigator: Roger del Moral

List of Entities:

1. Species cover data by year and plot.

2. Richness, cover, Hprime, evenness and species frequency by year and plot.

Species cover data by year and plot.												
Attribute List:												
	DBCODE	N	N	char(5)	enum							
	ENTITY	N	N	numeric(1,0)	range	1.0000	1.0000	number				
	ZONE	Υ	N	char(3)	enum							
	SITE	Υ	N	char(3)	place							
	PLOT	Υ	N	numeric(2,0)	range	1.0000	20.0000	number				
	YEAR	Υ	N	numeric(4,0)	range			YYYY				
	SPECIES	Υ	N	varchar(30)	taxa							
	SPPCOVER	N	N	numeric(4,1)	range	0.0000	44.7000	%				
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2. Richness, cover, Hprime, evenness and species frequency by year and plot.												
Attr	ibute List: DBCODE	N	N	char(5)	enum							
	ENTITY	N	N	numeric(1,0)	range	2.0000	2.0000	number				
	ZONE	Υ	N	char(3)	enum							
	SITE	Υ	N	char(3)	place							
	PLOT	Υ	N	numeric(2,0)	range	1.0000	20.0000	number				
	YEAR	Υ	N	numeric(4,0)	range			YYYY				
	RICHNESS	N	N	numeric(3,0)	range	0.0000	29.0000	number				
	PLOTCOVER	N	N	numeric(4,1)	range	0.0000	82.4000	%				

HPRIME	N	Ν	numeric(5,3)	range	0.0000	14.6100	number
EVENNESS	N	N	numeric(5,3)	range	0.0000	1.0000	number
FRFQ	N	N	numeric(4.1)	range	0.0000	83.0000	number

Attributes Definitions:

DBCODE

Database Code

ENTITY

Entity number

EVENNESS

equitability based on cover = H/In(richness)

FREQ

Mean frequency of the species

HPRIME

Shannon function for diversity based on the natural log of cover proportions

PLOT

Plot number

PLOTCOVER

Total plot cover (sum of all species)

RICHNESS

Total number of species

SITE

Site name near where data was collected

SPECIES

Species scientific name

SPPCOVER

Total species cover

YEAR

Year of data collection

ZONE

Descriptive zone where data was collected

Enumerated Domains:

Enumerated Domain for Attribute: DBCODE

TV070 FSDB database code TV070; Category code TV (Terrestrial Vegetation)

Enumerated Domain for Attribute: ZONE

HS Heavy Scour; sites that received a heavy degree of erosion from rapidly melting

glaciers

MS Moderate Scour; sites that received a moderate degree of erosion from rapidly

melting glaciers

LS Light Scour; sites that received a light degree of erosion from rapidly melting

glaciers

T Tephra; received only coarse airfall deposits and recovered within a few years

SB Secondary Blast; affected primarily by the hot directed blast with substantial

survival of understory

PB Primary Blast; affected primarily by the hot directed blast and no plants survived

P Pumice; plots established on newly emplaced pumice in the blast zone

L Lahars; plots on newly emplace mud flows near intact vegetation

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